Environmental Functional Area

Water, Air, Monitoring & Analysis

LLNL-AR-411431-12-3

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

Annual/Second Semester Report 2011

Author

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This work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.

Table of Contents

List of Figures

Appendices

Appendix A Sewage Evaporation and Percolation Pond Network
Field Tracking Forms
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)

Appendix B Cooling Tower Network
Cooling Tower Blow Down Effluent Monitoring Network with Discharges to Percolation Pits (Bldgs. 801, 809, 812, 817A, 825, 826, 827A, and 851) and Cooling Tower Percolation Pit Inspection Forms

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

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 2/21/12

Richard G. Blake — Date
California Professional Geologist
No. 5550
License expires: July 30, 2012

List of Abbreviations and Acronyms

3CMP	samples collected at Site 300 for Compliance Monitoring Program
3EMG	samples collected at Site 300 for the Permits and Regulatory Affairs Division
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

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)

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 sewage evaporation pond and percolation pond in the General Services Area, and cooling tower blow down 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/annual report for 2011 and updates the status of equipment and facilities since the adoption of R5-2008-0148. Permit terms and conditions were met for all permitted networks. Compliance certification accompanies this report, as required by the permit.

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 first and second semesters of 2011 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 blow down 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).
- Status of special studies.

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

This annual/second semester report summarizes the 2011 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 Report of Waste Discharge submitted for the renewal of WDR 96-248.

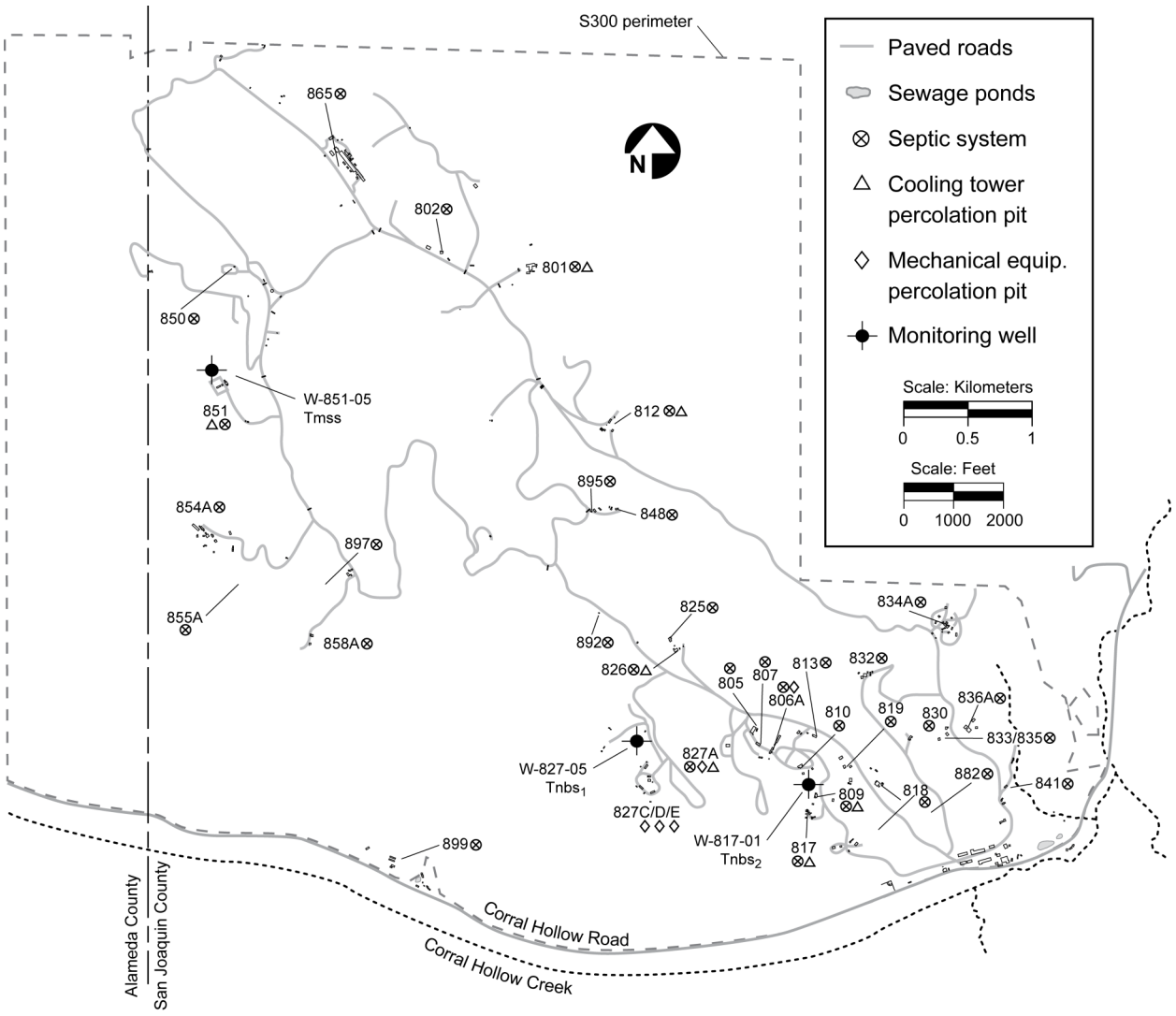

Figure 1. Locations of Site 300 facilities with septic systems and percolation pits.

2. Sewage Evaporation and Percolation Ponds

2.1. Effluent and Pond Compliance Monitoring Program

MRP R5-2008-0148 requires semi-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 in a pipe that captures all waste streams 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. No wastewater discharges occurred to the sewage percolation pond during the second semester 2011.

Observations of the sewage pond are made and recorded at least monthly for freeboard, color, odor, and levee condition. **Appendix A** contains several second semester 2011 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 2011 for each well are provided (**Appendix A, Tables A-1 and A-2**).

In addition to normal operation of the sewer evaporation pond, several 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. In this case, eleven discharges associated with the final pipeline flushing were reused as evaporation loss makeup water to the sewage pond. These discharges occurred between July 15 through November 30, 2011.

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 19, 2011. 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 Protection Department'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 location ESWP is 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 are provided in **Appendix A**, 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 2011. Ground water samples were collected and analyzed, and results entered into the EFA database according to written protocol (Goodrich and Lorega, 2009). The monitor wells were purged and sampled during two phases, from July 18 to August 22, and from November 14 to November 18, 2011, 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, fecal coliform bacteria (**Table A-7**) was not detected over the reporting limit in any monitoring wells. Total coliform was detected in wells W-26R-05 (2.0MPN/100mL) and W-26-R-11 (4 MPN/100mL); however, the absence of fecal coliform indicates the septic system is probably not the source of the detected coliform. LLNL will continue to monitor these wells for total and fecal coliform.

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 3 to December 12, 2011. The sewer pond ground water network map showing concentrations of nitrates is presented in **Appendix A, Figure A-3**. **Figure A-3** also provides data tables for nitrates and other monitored constituents to assist the reader in evaluating the data presented in this report. The 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 blow down is specified in MRP R5-2008-0148. LLNL implemented the cooling tower blow down 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 eight operating cooling towers. The cooling tower locations are identified in **Appendix B, Figure B-1**. The cooling tower located at Building 825 discharges to a septic system. The remaining cooling towers located at Buildings 801, 809, 817, 826, 827, and 851 all discharge to percolation pits. 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 was collected to characterize the discharge of these cooling towers.

MRP R5-2008-0148 requires semi-annual sampling of the cooling tower blow down. 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 Blow Down Effluent Sampling and Analysis

Second semester 2011 routine cooling tower blow down samples were collected on October 19, 2011. For the cooling tower blow down 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 Blow Down Monitoring Results

Analytical results for the Building 826 cooling tower blow down routine samples collected on October 19 were significantly higher or inconsistent with first semester 2011 data. These discrepancies appear in anions (**Table B-1**), metals (**Table B-2**), and physical characteristics (**Table B-3**) data. An inspection of the cooling tower operations after the sampling event indicated that the circulation pump at the Building 826 cooling tower was not functioning properly at the time of the October 19 sampling. Therefore, the pump was taken out of service and repaired. Subsequently, the cooling tower was resampled on January 30, 2012 and the new data in **Tables B-1** through **B-3** are consistent with first semester sample results, and all other data are generally consistent with data found in WDR Order No. R5-2008-0148, Attachments 16 and 20, with the following exceptions:

- Copper concentrations in samples collected ranged from 6.1 µg/L to 9.8 µg/L, as compared to the concentrations summarized in the WDR attachments (5.6 µg/L to 8.3 µg/L). Cooling towers at Building 826 (9.8 µg/L) and Building 827 (9.8 µg/L) had elevated copper values. The value of the copper in the Building 827 cooling tower effluent was slightly lower than last semester (9.8 µg/L vs. 25 µg/L last semester) and the effluent at Building 826 was higher (9.8 µg/L vs. 5.6 µg/L last semester). **Table B-2** presents metals results data in units of µg/L.
- Molybdenum concentrations in samples collected ranged from <25 µg/L to 95 µg/L, which is greater than the concentrations of data summarized in the WDR attachments (<25 µg/L to 31 µg/L). The cooling towers at Buildings 801 (95 µg/L) and 827 (25 µg/L) were two of the cooling towers that showed elevated molybdenum concentrations in the second semester 2011 results. **Table B-2** presents metals results in units of µg/L. LLNL will continue to closely evaluate future molybdenum data.
- Zinc concentrations in samples collected ranged from <20 µg/L to 100 µg/L and were slightly lower than zinc concentrations last semester, but slightly greater than the concentrations of data summarized in the WDR attachments (<20 µg/L to 44 µg/L). The cooling towers at Buildings 817 (66 µg/L) and 826 (100 µg/L) were two of the cooling towers that showed the most elevated zinc concentrations in the second semester 2011 results. **Table B-2** presents metals results in units of µg/L.

Although the concentrations for copper, molybdenum, and zinc are slightly above the range in the WDR attachments, the discharge concentrations are well below the values calculated using the Designated Level Methodology to impact ground water. LLNL will continue to closely evaluate future copper, molybdenum, and zinc data.

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**.

3.4. Cooling Tower Percolation Pit Monthly Inspections

Since the first semester 2010, LLNL implemented monthly visual inspections of the cooling tower percolation pits located at Buildings 801, 809, 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.

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**. No standing water was observed and no overflows were reported during this semester, except for the cooling tower at Building 801 that showed standing water during the October 18 inspection. The follow-up inspection on November 2 indicated 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. During the first semester of 2010, LLNL first implemented the monitoring elements for the identified mechanical equipment systems located at Buildings 806B, 827A, 827C, 827D, and 827E. **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 2011 are reported in **Appendix C**. Monitoring is performed using composite sampling from Cristy 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, 827A, 827C, 827D, and 827E locations.

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, 827A, 827C, 827D, and 827E (**Appendix C, Figure C-1**). **Appendix C** contains the second semester 2011 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 the second semester, standing water was observed at B827A on November 7 and November 14. The follow up inspection on November 21 indicated routine operations.

5. Permit Related Summaries and Updates

5.1. Regulatory Correspondence

The following letters or verbal communication has been provided to the CVRWQCB during 2011 and are summarized below.

- Well abandonment correspondence. Telephoned Marcus Pierce at the CVRWQCB on January 25, 2012 and indicated that LLNL proposes to abandon monitoring well W-25N-20, a downgradient well at the Site 300 sewer pond. It has been determined that this well has a cracked casing and the integrity of the well is in question. This well is one of seven downgradient wells at the sewer pond and any contaminant that could potentially originate from the sewer pond would be detected in the remaining ground water monitoring wells. LLNL believes that a replacement well is not necessary because of the location of other downgradient wells, and is requesting permission to abandon this well. LLNL has prepared a letter to CVRWQCB for concurrence.
- Stormwater Cleanout Letter: Submitted letter to CVRWQCB on November 2, 2011 regarding discharge of storm drain clean-out water as make-up water to the sewage evaporation pond at Site 300 under permit WDR-R5-2008-0148. Storm drain cleanout activities are necessary at S300 and the discharge from these activities could be a waste discharge requiring disposal. LLNL requested and the CVRWQCB concurred that the discharge is consistent with our existing permit, which covers the Sewer Evaporation Pond (R5-2008-0148). Cleanout activities that can be performed consistent with Attachment 4 of the permit "Culvert Flushings" will not require discharges to the Sewer Evaporation Pond.
- Mercury Monitoring letter: Submitted letter to CVRWQCB on May 18, 2011 regarding mercury monitoring in WDR-R5-2008-0148 ground water monitoring wells. LLNL is requesting the removal of the mercury monitoring requirement, which appears to have been inadvertently added to the Monitoring and Reporting Program during the 2009 revision. We are awaiting a response from the CVRWQCB, and in the meantime, according to the MRP, we have performed mercury analyses from ground water samples from these wells. Mercury analysis results for all of these wells indicate non-detect values. This data will be presented in the first semester 2012 report. Based on these results, LLNL continues to request that mercury be removed from the MRP.
- Building 835 Septic Tank System Replacement/Repair: A letter was submitted on July 15, 2011, notifying the CVRWQCB within 30 days of planned septic system replacement. LLNL is currently investigating the condition of the septic tank and a repair without replacement may be possible.
- 14-Day letter: A release at B-827 from an above ground tank was reported to the CVRWQCB on July 15, 2011. All corrective actions have been implemented.

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Acknowledgments

The compliance-monitoring program supporting WDR 08-0148 is large and could not be performed without the dedicated efforts of many people. The completion of this report, and the groundwork laid for future report submissions, would not have been possible without the invaluable and timely contributions of Don MacQueen, John Radyk, Suzie Chamberlain, and Dawn Chase.

Thanks are also due to Environmental Functional Area and Environmental Restoration Department sampling technologists: Bob Williams, Karl Brunckhorst, Crystal Foster, and Eric Walter; data management support, Kim Swanson; Kevin Melissare for graphic arts contributions; and Rosanne Depue for providing strong administrative assistance. Additional appreciation goes to Allen Grayson for his timely collection of field logs and inspection sheets and John Scott at Site 300 for his support in this effort.

Appendix A

Sewage Evaporation and Percolation Pond Network

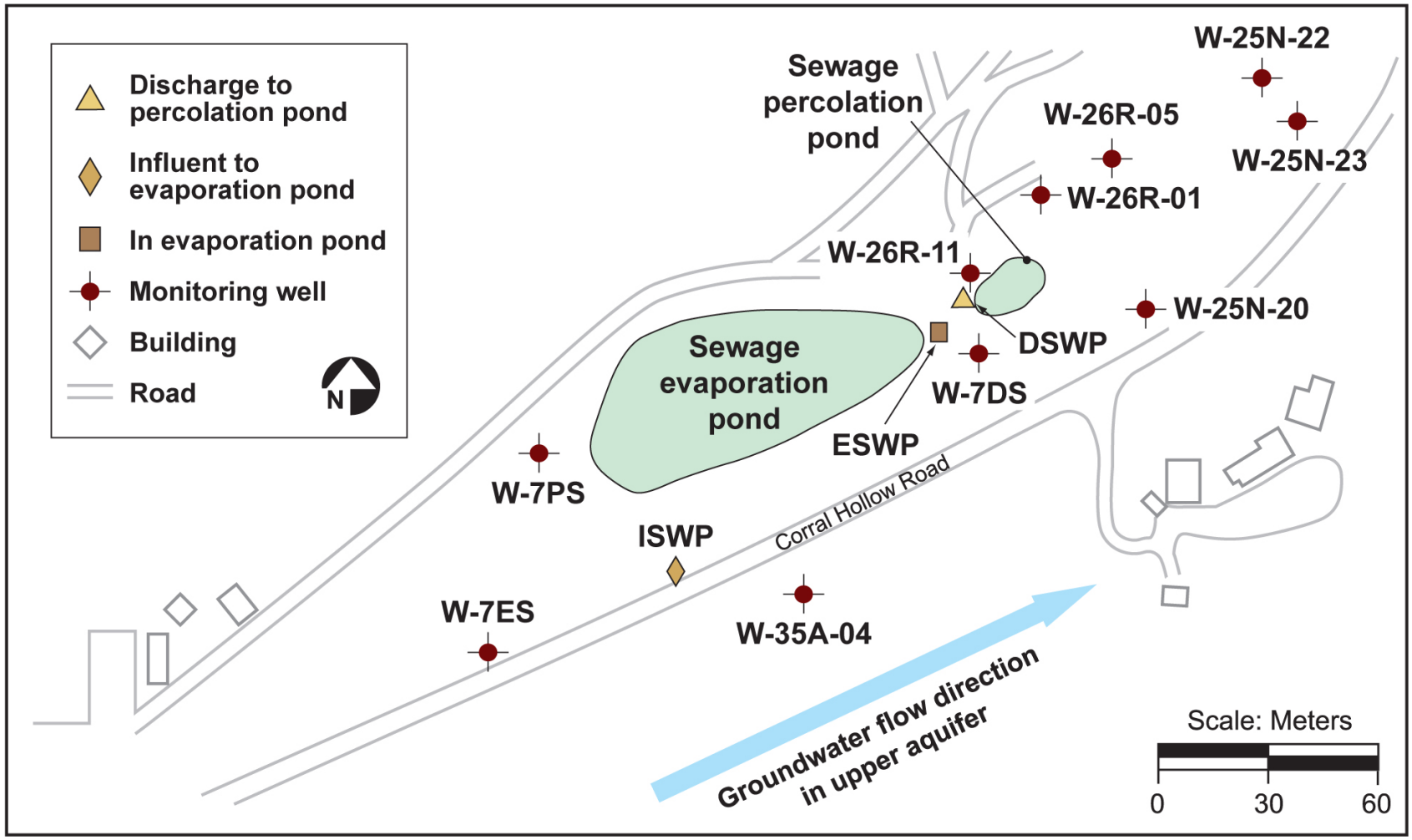

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Figure A.1. Sewer pond wastewater and ground water monitoring network.

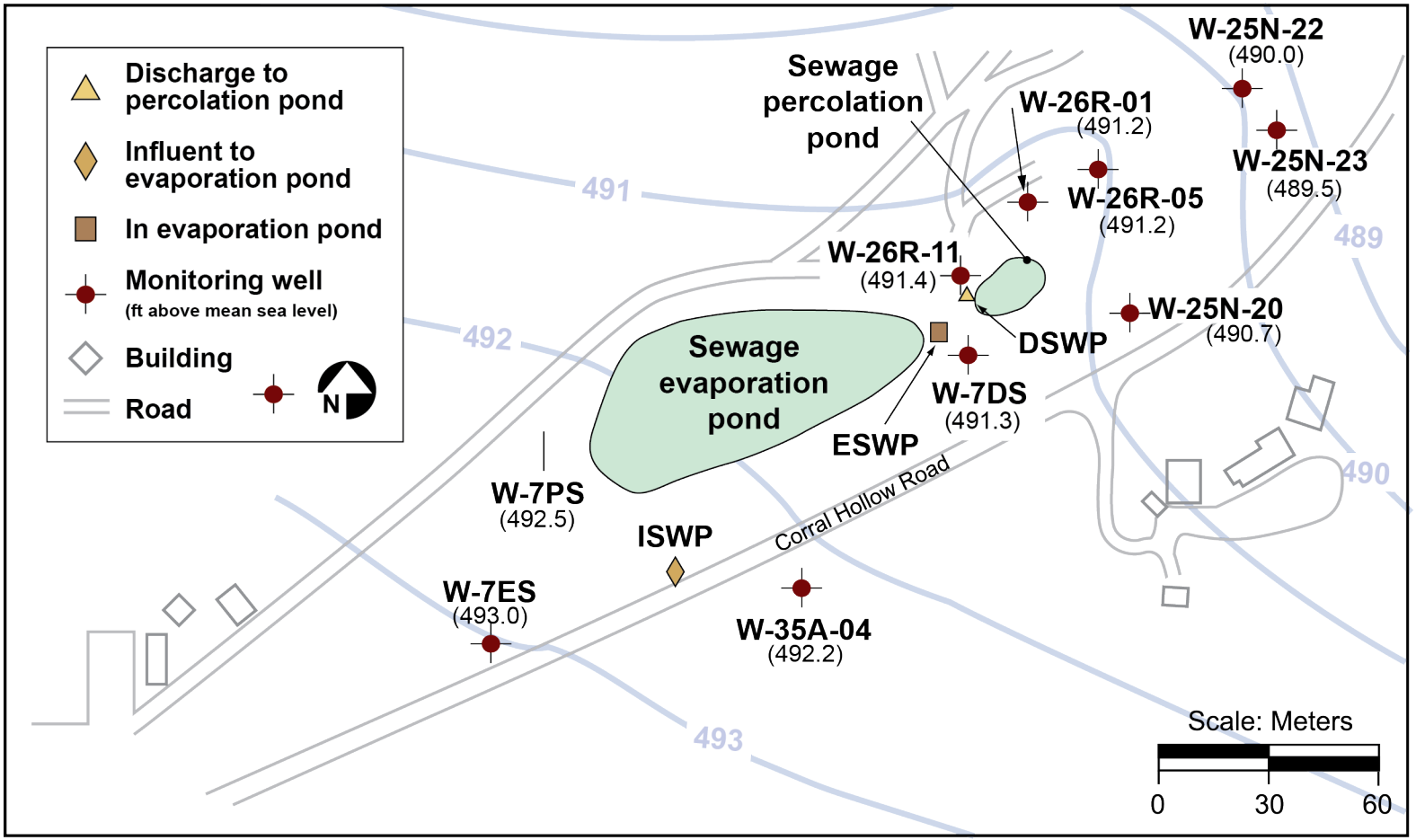
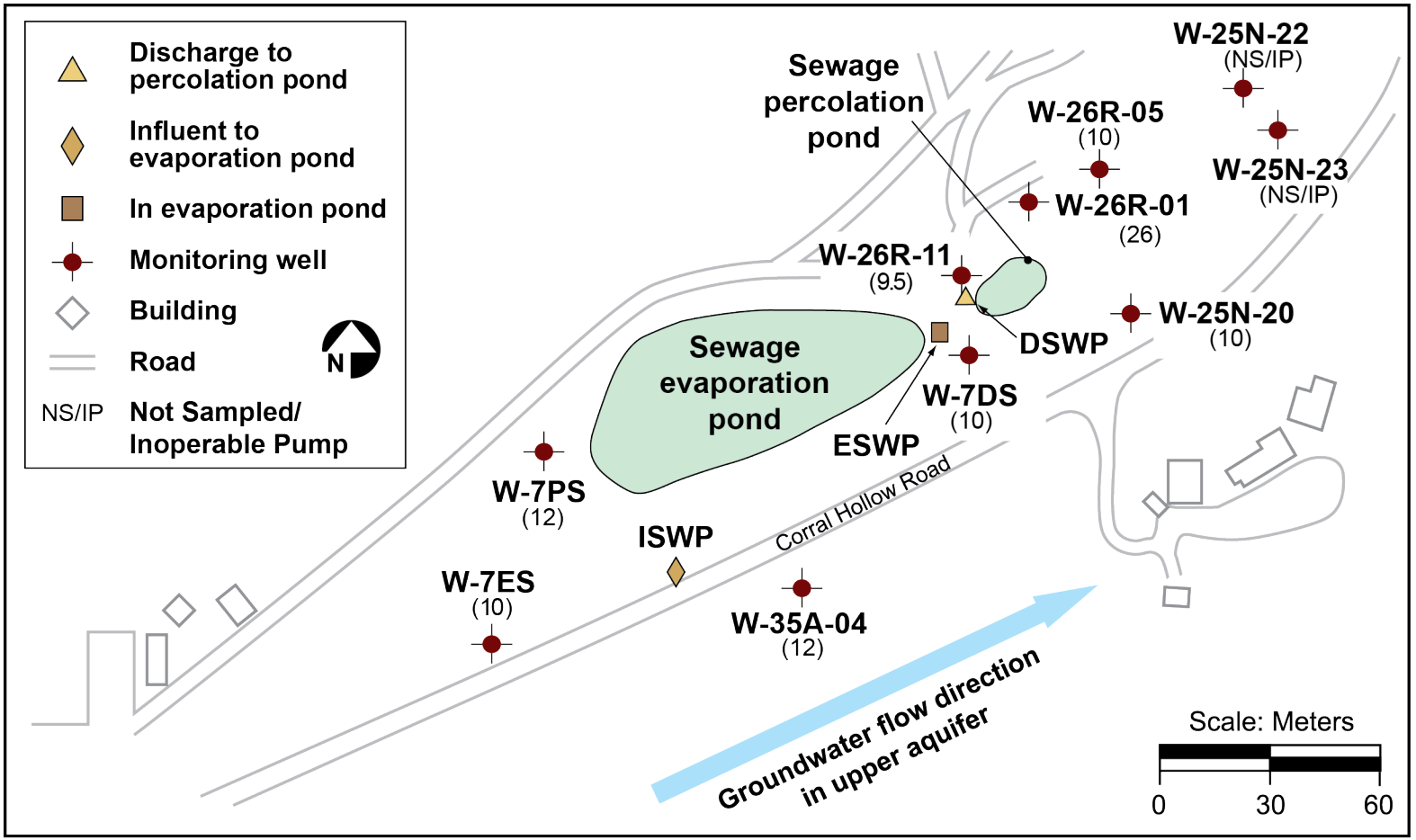


Figure A.2. Site 300 sewer pond wastewater and effluent monitoring network with ground water elevations (ft above mean sea level).



EDR_S3R_12_fig_A3

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

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.

Table A-2. Site 300 sewer pond ground water monitoring network annual/second semester 2011 ground water elevation summary.

Well	Date sampled	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-7ES	Jan 20	17.3	492.4
W-7ES	Feb 2	17.5	492.2
W-7ES	Feb 3	17.5	492.2
W-7ES	May 4	9.0	500.7
W-7ES	May 4	9.1	500.6
W-7ES	May 5	9.2	500.5
W-7ES	Aug 9	12.6	497.1
W-7ES	Aug 11	12.7	497.1
W-7ES	Sep 7	14.3	495.4
W-7ES	Nov 16	16.7	493.0
W-7ES	Nov 17	16.8	493.0
W-7ES	Dec 12	17.0	492.7
W-7PS	Jan 20	16.9	491.9
W-7PS	Feb 2	17.1	491.7
W-7PS	Feb 3	17.1	491.7
W-7PS	May 3	9.1	499.7
W-7PS	May 4	9.1	499.7
W-7PS	Aug 10	12.3	496.4
W-7PS	Aug 11	12.7	496.1
W-7PS	Sep 7	14.0	494.8
W-7PS	Nov 15	16.3	492.5
W-7PS	Nov 16	16.3	492.5
W-7PS	Dec 12	16.6	492.2
W-35A-04	Jan 25	3.1	501.0
W-35A-04	Feb 2	12.7	491.4
W-35A-04	Feb 3	12.8	491.3
W-35A-04	May 9	4.8	499.3
W-35A-04	May 10	4.8	499.3
W-35A-04	Jun 2	5.1	498.9
W-35A-04	Jun 14	5.3	498.8
W-35A-04	Aug 8	7.7	496.4
W-35A-04	Aug 9	7.8	496.3
W-35A-04	Sep 29	10.6	493.5
W-35A-04	Nov 16	11.9	492.2
W-35A-04	Nov 17	11.9	492.2
W-25N-20	Jan 20	14.5	490.4
W-25N-20	Jan 26	13.6	491.3
W-25N-20	Jan 27	14.6	490.3
W-25N-20	May 2	7.6	497.4
W-25N-20	May 3	7.6	497.3
W-25N-20	May 4	7.7	497.2
W-25N-20	Aug 3	10.0	494.9
W-25N-20	Aug 4	10.1	494.8
W-25N-20	Sep 7	12.0	492.9
W-25N-20	Dec 12	14.3	490.7
W-25N-23	Jan 20	21.2	489.2
W-25N-23	Jan 31	21.3	489.1

Table A-2. Site 300 sewer pond ground water monitoring network annual/second semester 2011 ground water elevation summary.

Well	Date sampled	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-25N-23	Feb 1	21.3	489.1
W-25N-23	May 4	15.1	495.3
W-25N-23	May 26	15.3	495.1
W-25N-23	Sep 7	18.9	491.5
W-25N-23	Dec 12	20.9	489.5
W-25N-22	Jan 20	10.3	502.7
W-25N-22	Jan 31	23.6	489.4
W-25N-22	May 4	17.8	495.2
W-25N-22	Sep 7	21.2	491.8
W-25N-22	Dec 12	23.1	490.0
W-26R-01	Jan 20	19.1	490.6
W-26R-01	Jan 26	19.3	490.4
W-26R-01	Jan 27	19.2	490.5
W-26R-01	May 2	13.1	496.6
W-26R-01	May 3	11.9	497.8
W-26R-01	May 4	12.0	497.7
W-26R-01	Aug 3	14.4	495.3
W-26R-01	Aug 4	14.4	495.3
W-26R-01	Sep 7	6.5	503.2
W-26R-01	Nov 14	18.5	491.2
W-26R-01	Nov 15	18.5	491.2
W-26R-01	Dec 12	28.8	480.9
W-26R-05	Jan 20	21.5	491.6
W-26R-05	Jan 31	22.7	490.5
W-26R-05	Feb 3	25.2	487.9
W-26R-05	May 2	15.9	497.2
W-26R-05	May 5	15.9	497.2
W-26R-05	Jun 2	16.4	496.8
W-26R-05	Jul 18	17.3	495.8
W-26R-05	Jul 21	18.4	494.7
W-26R-05	Sep 7	20.1	493.0
W-26R-05	Nov 14	21.9	491.2
W-26R-05	Nov 17	21.9	491.2
W-26R-05	Dec 12	22.2	490.9
W-26R-11	Jan 20	16.4	490.8
W-26R-11	Jan 31	16.5	490.7
W-26R-11	Feb 1	16.6	490.7
W-26R-11	May 2	11.8	495.4
W-26R-11	May 3	9.1	498.1
W-26R-11	May 4	9.2	498.0
W-26R-11	Aug 8	11.8	495.4
W-26R-11	Aug 9	11.9	495.3
W-26R-11	Sep 7	14.0	493.3
W-26R-11	Nov 14	15.7	491.5
W-26R-11	Nov 15	15.8	491.4
W-26R-11	Dec 12	16.1	491.1
W-7DS	Jan 20	15.3	491.3

Table A-2. Site 300 sewer pond ground water monitoring network annual/second semester 2011 ground water elevation summary.

Well	Date sampled	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-7DS	Feb 2	15.9	490.7
W-7DS	Feb 3	15.9	490.7
W-7DS	May 3	8.4	498.2
W-7DS	May 4	8.5	498.1
W-7DS	Aug 8	11.2	495.4
W-7DS	Aug 9	11.3	495.3
W-7DS	Sep 7	13.0	493.7
W-7DS	Nov 15	15.3	491.3
W-7DS	Nov 16	15.1	491.5
W-7DS	Dec 12	15.4	491.2

Table A-3. Site 300 sewer pond wastewater monitoring network second semester/annual 2011 coliform, anion, and physical characteristic data summary.

Well	Date	pH	Specific Conductance (umhos/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	9.6	4,730	33	14	13,000	24,000	1,200
3-ESWP-OW	Sep 19	9.4	6,380	28	6.8	2,300	5,000	1,500
3-ISWP-OW	Apr 21	8.2	1,640	150	–	–	–	–
3-ISWP-OW	Sep 19	8.5	1,760	340	–	–	–	–

Note:
– = Analysis not required.

Table A-4. Site 300 sewer pond wastewater monitoring network 2011 annual/second semester report metals data summary.

Analyte	Date	3-ESWP-OW (ug/L)
Aluminum	Apr 21	140
	Sep 19	<100
Arsenic	Apr 21	2.8
	Sep 19	3.9
Barium	Apr 21	<25
	Sep 19	33
Boron	Apr 21	4,900
	Sep 19	7,000
Cadmium	Apr 21	<50
	Sep 19	<50
Calcium	Apr 21	18,000
	Sep 19	17,000
Chromium	Apr 21	2.0
	Sep 19	2.5
Hexavalent Chromium	Apr 21	<1
	Sep 19	<1
Copper	Apr 21	7.0
	Sep 19	7.8
Iron	Apr 21	440
	Sep 19	200
Lead	Apr 21	<5
	Sep 19	<5
Magnesium	Apr 21	9,800
	Sep 19	4,300
Manganese	Apr 21	<60
	Sep 19	<60
Molybdenum	Apr 21	<50
	Sep 19	75
Nickel	Apr 21	3.4
	Sep 19	5.4
Potassium	Apr 21	67,000
	Sep 19	92,000
Selenium	Apr 21	4.2
	Sep 19	6.6
Silver	Apr 21	<1
	Sep 19	<1
Vanadium	Apr 21	<20
	Sep 19	<20
Zinc	Apr 21	37
	Sep 19	20
Selenium	Apr 21	4.2
	Sep 19	6.6
Silver	Apr 21	<1
	Sep 19	<1
Vanadium	Apr 21	<20
	Sep 19	<20
Zinc	Apr 21	37
	Sep 19	20

Table A-5. Site 300 sewer pond wastewater monitoring network annual/second semester 2011 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	9.6	4,730	33	14	13,000	24,000	1,200
3-ESWP-OW	Apr 21	Duplicate	–	–	38	–	–	–	–
3-ISWP-OW	Sep 19	Routine	8.5	1,760	340	–	–	–	–
3-ISWP-OW	Sep 19	Duplicate	–	1,760	–	–	–	–	–

Note:
– = Analysis not required.

Table A-6. Site 300 sewer pond ground water monitoring network annual/second semester 2011 anions data summary.

Well	Date	Sodium	Chloride	Nitrate (as NO3)	Sulfate	Fluoride
W-7ES	Feb 2	170	140	9.4	340	0.44
W-7ES	May 4	–	–	12	–	–
W-7ES	Aug 10	160	120	10	290	0.33
W-7ES	Nov 16	–	–	10	–	–
W-7PS	Feb 2	190	150	17	250	0.51
W-7PS	May 3	–	–	16	–	–
W-7PS	Aug 10	190	130	14	290	0.43
W-7PS	Nov 15	–	–	12	–	–
W-35A-04	Feb 2	170	140	11	330	0.46
W-35A-04	May 9	–	–	13	–	–
W-35A-04	Aug 8	160	120	13	280	0.48
W-35A-04	Nov 16	–	–	12	–	–
W-25N-20	Jan 26	170	140	11	330	0.40
W-25N-20	May 2	–	–	12	–	–
W-25N-20	Aug 3	150	120	10	300	0.36
W-25N-23	Jan 31	160	110	2.1	450	0.55
W-26R-01	Jan 26	210	150	28	240	0.32
W-26R-01	May 2	–	–	22	–	–
W-26R-01	Aug 3	200	150	20	250	0.38
W-26R-01	Nov 14	–	–	26	–	–
W-26R-05	Jan 31	150	100	1.7	220	0.48
W-26R-05	May 2	–	–	19	–	–
W-26R-05	Jul 18	190	140	21	230	0.37
W-26R-05	Nov 14	–	–	10	–	–
W-26R-11	Jan 31	180	140	11	270	0.39
W-26R-11	May 2	–	–	13	–	–
W-26R-11	Aug 8	170	120	12	280	0.40
W-26R-11	Nov 14	–	–	9.5	–	–
W-7DS	Feb 2	170	140	9.6	330	0.46
W-7DS	May 3	–	–	12	–	–
W-7DS	Aug 8	150	120	11	290	0.41
W-7DS	Nov 15	–	–	10	–	–

Note:
– = Analysis not required.

Table A-7. Site 300 sewer pond ground water monitoring network annual/second semester 2011 coliform data summary.

Well	Date	Fecal Coliform (MPN/100mL)	Total Coliform (MPN/100mL)
W-7ES	Feb 3	<2	<2
W-7ES	May 5	<2	<2
W-7ES	Aug 11	<2	<2
W-7ES	Nov 17	<2	<2
W-7PS	Feb 3	<2	<2
W-7PS	May 4	<2	<2
W-7PS	Aug 11	<2	<2
W-7PS	Nov 16	<2	<2
W-35A-04	Feb 3	<2	11
W-35A-04	May 10	2.0	13
W-35A-04	Aug 9	<2	<2
W-35A-04	Nov 17	<2	<2
W-25N-20	Jan 27	<2	<2
W-25N-20	May 3	<2	<2
W-25N-20	Aug 4	<2	<2
W-25N-23	Feb 1	<2	2.0
W-26R-01	Jan 27	<2	<2
W-26R-01	May 3	<2	2.0
W-26R-01	Aug 4	<2	<2
W-26R-01	Nov 15	<2	<2
W-26R-05	Feb 3	<2	<2
W-26R-05	May 5	<2	30
W-26R-05	Jul 21	<2	<2
W-26R-05	Nov 17	<2	2.0
W-26R-11	Feb 1	<2	<2
W-26R-11	May 3	<2	<2
W-26R-11	Aug 9	<2	<2
W-26R-11	Nov 15	<2	4.0
W-7DS	Feb 3	<2	<2
W-7DS	May 4	<2	<2
W-7DS	Aug 9	<2	<2
W-7DS	Nov 16	<2	<2

Table A-8. Site 300 sewer pond ground water monitoring network annual/second semester 2011 physical chemistry data.

Well	Date	pH	Specific Conductance (µmhos/cm)	Total Alkalinity (as CaCO3) (mg/L)	Total dissolved solids (mg/L)	Total Hardness (as CaCO3) (mg/L)	Total Phosphorus (as PO4) (mg/L)
W-7ES	Feb 2	7.8	1,550	290	1,000	510	<1
W-7ES	May 4	7.8	1,280	–	–	–	–
W-7ES	Aug 10	7.7	1,340	260	980	420	<1
W-7ES	Nov 16	7.7	1,500	–	–	–	–
W-7PS	Feb 2	7.8	1,490	300	980	410	<1
W-7PS	May 3	7.8	1,370	–	–	–	–
W-7PS	Aug 10	7.8	1,410	310	1,000	380	<1
W-7PS	Nov 15	7.7	1,510	–	–	–	–
W-35A-04	Feb 2	7.9	1,450	280	1,000	480	<1
W-35A-04	May 9	7.8	1,220	–	–	–	–
W-35A-04	Aug 8	8.0	1,370	260	920	390	<1
W-35A-04	Nov 16	7.7	1,470	–	–	–	–
W-25N-20	Jan 26	8.0	1,380	280	1,000	480	<1
W-25N-20	May 2	7.6	1,270	–	–	–	–
W-25N-20	Aug 3	7.8	1,150	270	920	390	<1
W-25N-23	Jan 31	7.6	1,480	200	1,100	450	<1
W-26R-01	Jan 26	8.0	1,290	250	940	280	<1
W-26R-01	May 2	7.8	1,400	–	–	–	–
W-26R-01	Aug 3	7.8	1,200	260	950	260	<1
W-26R-01	Nov 14	7.8	1,400	–	–	–	–
W-26R-05	Jan 31	8.0	1,100	210	760	240	<1
W-26R-05	May 2	8.0	1,320	–	–	–	–
W-26R-05	Jul 18	7.8	1,360	240	840	280	<1
W-26R-05	Nov 14	8.2	1,230	–	–	–	–
W-26R-11	Jan 31	7.7	1,430	280	940	400	<1
W-26R-11	May 2	7.7	1,280	–	–	–	–
W-26R-11	Aug 8	7.7	1,400	280	960	390	<1
W-26R-11	Nov 14	7.8	1,430	–	–	–	–
W-7DS	Feb 2	7.8	1,520	280	1,000	490	<1
W-7DS	May 3	7.9	1,300	–	–	–	–
W-7DS	Aug 8	7.9	1,370	260	920	400	<1
W-7DS	Nov 15	7.8	1,460	–	–	–	–

Note:
– = Analysis not required.

Table A–9. Site 300 sewer pond ground water monitoring network annual/second semester 2011 metals data summary.

Analyte (µg/L)	Date	W-7ES	W-7PS	W-35A-04	W-25N-20	W-25N-23	W-26R-01	W-26R-05	W-26R-11	W-7DS
Aluminum	Jan	–	–	–	<50	<50	<50	<50	<50	–
	Feb	<50	<50	<50	–	–	–	–	–	<50
	Jul	–	–	–	–	–	–	<50	–	–
	Aug	<50	<50	<50	<50	–	<50	–	<50	<50
Arsenic	Jan	–	–	–	2.9	<2	9.2	7.9	3.3	–
	Feb	2.4	3.5	3.7	–	–	–	–	–	3.1
	Jul	–	–	–	–	–	–	7.9	–	–
	Aug	4.1	4.9	4.3	2.1	–	7.6	–	3.7	3.1
	Nov	–	–	3.9	–	–	–	–	–	–
Barium	Jan	–	–	–	49	29	35	28	53	–
	Feb	51	61	44	–	–	–	–	–	50
	Jul	–	–	–	–	–	–	32	–	–
	Aug	45	63	37	41	–	33	–	50	42
	Nov	–	–	43	–	–	–	–	–	–
Boron	Jan	–	–	–	2,700	1,300	1,700	1,100	2,500	–
	Feb	2,800	2,400	3,000	–	–	–	–	–	2,800
	Jul	–	–	–	–	–	–	1,400	–	–
	Aug	2,500	2,500	2,500	2,400	–	1,700	–	2,400	2,400
Cadmium	Jan	–	–	–	<50	<50	<50	<50	<50	–
	Feb	<50	<50	<50	–	–	–	–	–	<50
	Jul	–	–	–	–	–	–	<50	–	–
	Aug	<50	<50	<50	<50	–	<50	–	<50	<50
	Nov	–	–	<0.5	–	–	–	–	–	–
Calcium	Jan	–	–	–	110,000	110,000	70,000	58,000	91,000	–
	Feb	11,0000	93,000	110,000	–	–	–	–	–	110,000
	Jul	–	–	–	–	–	–	70,000	–	–
	Aug	97,000	88,000	88,000	89,000	–	66,000	–	89,000	92,000
Chromium	Jan	–	–	–	1.1	<1	<1	<1	<1	–
	Feb	<1	1.6	1.4	–	–	–	–	–	1.5
	Jul	–	–	–	–	–	–	<1	–	–
	Aug	<1	1.1	1.1	<1	–	<1	–	<1	<1
	Nov	–	–	1.0	–	–	–	–	–	–

Table A–9. Site 300 sewer pond ground water monitoring network annual/second semester 2011 metals data summary. (Cont.)

Analyte (µg/L)	Date	W-7ES	W-7PS	W-35A-04	W-25N-20	W-25N-23	W-26R-01	W-26R-05	W-26R-11	W-7DS
Hexavalent Chromium	Jan	–	–	–	<1	<1	<1	<1	<1	–
	Feb	<1	<1	<1	–	–	–	–	–	<1
	Jul	–	–	–	–	–	–	<1	–	–
	Aug	<1	<1	<1	<1	–	<1	–	<1	<1
Copper	Jan	–	–	–	1.2	1.7	2.4	1.8	<1	–
	Feb	1.1	1.4	1.4	–	–	–	–	–	1.3
	Jul	–	–	–	–	–	–	1.4	–	–
	Aug	<1	<1	<1	1.1	–	1.9	–	<1	<1
	Nov	–	–	<10	–	–	–	–	–	–
Iron	Jan	–	–	–	<100	<100	<100	<100	<100	–
	Feb	<100	<100	<100	–	–	–	–	–	<100
	Jul	–	–	–	–	–	–	<100	–	–
	Aug	<100	<100	<100	<100	–	<100	–	<100	<100
Lead	Jan	–	–	–	<5	<5	<5	<5	<5	–
	Feb	<5	<5	<5	–	–	–	–	–	<5
	Jul	–	–	–	–	–	–	<5	–	–
	Aug	<5	<5	<5	<5	–	<5	–	<5	<5
	Nov	–	–	<2	–	–	–	–	–	–
Magnesium	Jan	–	–	–	50,000	44,000	26,000	22,000	42,000	–
	Feb	54,000	43,000	52,000	–	–	–	–	–	52,000
	Jul	–	–	–	–	–	–	26,000	–	–
	Aug	44,000	40,000	41,000	41,000	–	24,000	–	41,000	42,000
Manganese	Jan	–	–	–	<30	<30	<30	<30	<30	–
	Feb	<30	<30	<30	–	–	–	–	–	<30
	Jul	–	–	–	–	–	–	<30	–	–
	Aug	<30	<30	<30	<30	–	<30	–	<30	<30
Molybdenum	Jan	–	–	–	<25	25	25	<25	<25	–
	Feb	<25	<25	<25	–	–	–	–	–	<25
	Jul	–	–	–	–	–	–	<25	–	–
	Aug	<25	<25	<25	<25	–	<25	–	<25	<25
	Nov	–	–	<25	–	–	–	–	–	–

Table A–9. Site 300 sewer pond ground water monitoring network annual/second semester 2011 metals data summary. (Cont.)

Analyte (µg/L)	Date	W-7ES	W-7PS	W-35A-04	W-25N-20	W-25N-23	W-26R-01	W-26R-05	W-26R-11	W-7DS
Nickel	Jan	–	–	–	4.8	5.1	2.2	<2	3.6	–
	Feb	3.1	3.3	3.6	–	–	–	–	–	3.2
	Jul	–	–	–	–	–	–	<2	–	–
	Aug	3.1	3.0	2.5	2.0	–	<2	–	2.6	2.3
	Nov	–	–	<5	–	–	–	–	–	–
Potassium	Jan	–	–	–	5,500	11,000	11,000	9,600	5,500	–
	Feb	5,700	5,900	5,500	–	–	–	–	–	5,800
	Jul	–	–	–	–	–	–	10,000	–	–
	Aug	5,000	5,400	5,200	4,800	–	10,000	–	5,500	5,200
	Nov	–	–	5,300	–	–	–	–	–	–
Selenium	Jan	–	–	–	5.8	2.3	11	2.2	10	–
	Feb	5.7	16	5.5	–	–	–	–	–	5.9
	Jul	–	–	–	–	–	–	7.3	–	–
	Aug	5.5	9.5	4.4	4.2	–	9.4	–	6.0	4.4
	Nov	–	–	4.6	–	–	–	–	–	–
Silver	Jan	–	–	–	<10	<10	<10	<10	<10	–
	Feb	<10	<10	<10	–	–	–	–	–	<10
	Jul	–	–	–	–	–	–	<10	–	–
	Aug	<10	<10	<10	<10	–	<10	–	<10	<10
	Nov	–	–	<0.5	–	–	–	–	–	–
Vanadium	Jan	–	–	–	<20	<20	<20	<20	<20	–
	Feb	<20	<20	<20	–	–	–	–	–	<20
	Jul	–	–	–	–	–	–	<20	–	–
	Aug	<20	<20	<20	<20	–	<20	–	<20	<20
	Nov	–	–	<25	–	–	–	–	–	–
Zinc	Jan	–	–	–	<20	<20	<20	<20	<20	–
	Feb	<20	<20	<20	–	–	–	–	–	<20
	Jul	–	–	–	–	–	–	<20	–	–
	Aug	<20	<20	<20	<20	–	<20	–	<20	<20
	Nov	–	–	<20	–	–	–	–	–	–

Note:
– = Analysis not required.

Table A-10. Site 300 sewer pond ground water monitoring network 2011 second semester QA data.

Constituent	Units	W-7PS	W-7PS	W-7PS	W-7PS	W-26R-01	W-26R-01	W-26R-01	W-26R-01
		Nov 15	Nov 15	Nov 16	Nov 16	Nov 14	Nov 14	Nov 15	Nov 15
		Routine	Duplicate	Routine	Duplicate	Routine	Duplicate	Routine	Duplicate
pH	Units	7.7	7.7	–	–	7.8	7.8	–	–
Specific Conductance	µmhos/cm	1,510	1,510	–	–	1,400	1,410	–	–
Fecal Coliform	MPN/100mL	–	–	<2	<2	–	–	<2	<2
Total Coliform	MPN/100mL	–	–	<2	<2	–	–	<2	<2
Nitrate (as NO3)	mg/L	12	12	–	–	26	27	–	–

Note:
– = Analysis not required.

FIELD TRACKING FORM

EAST END OF SITE 300 SEWAGE POND

Lab	FGL	BC
CoC #	54277	54276
Ship It #		

DATE: 9-19-19 **TIME:** 10:10

Special Instructions: **Semi-Annual Sampling in 2nd and 4th Quarters (April & Oct)**
Samples must be taken after 1 p.m.
Print collection time on sample bottles.
DO/conductivity/pH hold time 24 hr.

pH meter calibrated
Conductivity meter calibrated
DO meter calibrated

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)	9.24	6.28mS		15.64	20.9		KB CR	**FGLAB** **E360.1** *DO (1x500-mL glass, NO head space)* **E120.1A & E150.1A** *Conductivity/pH (2x250-mL poly)* **SM9221** *Total, Fecal Coliform (1x250mL) 6hr hold* **SM5210B-A** *BOD (1x500mL poly)*
~~3-WSWP-01-OW~~ *duplicate of* ~~3-ESWP-01-OW~~								**BC Labs** **S3METALS** *(1X500mL Poly)*

2Q2011 Duplicate **SM5210B-A**
4Q2011 Duplicate **See ISWP Field Tracking Form**

☑ Copy to Analyst, Allen Grayson

☐ Copy of CoC given to TRR

Revised 3/18/11

FIELD TRACKING FORM
INFLUENT TO SITE 300 SEWAGE POND

Lab	FGL
CoC #	54277
Ship It #	

DATE: 9-19-11 **TIME:** 09:55

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 _____
Conductivity meter calibrated _____
DO meter calibrated _____

Location	Field Measurements				Comments	Initials	Samples for Lab Analysis
	pH	COND	DO (PPM)	Temp (°C)			
3-ISWP-01-OW (Influent to Sewage Pond)	8.32	1466 uS	10.14	33.4		KB CR	**Analytical Codes:** **E120.1A & E150.1A** (Conductivity/pH) (2 X 250-mL poly) _____
3-WSWP-01-OW *duplicate of* 3-ISWP-01-OW							**SM5210B-A** (BOD) (1 X 500-mL poly) _____

2Q2011 Duplicate **See ESWP Field Tracking Form**
4Q2011 Duplicate **E120.1A**

☑ Copy to Analyst, Allen Grayson

☐ Copy of CoC given to TRR

Revised 3/18/11

Chain of Custody

EPD: EMAD/PRAD/ESPD
Lawrence Livermore National Laboratory
P.O. Box 808 L-629
Livermore, CA 94551

Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 54277
Document Control #: 54277
Requester/LLNL Analyst: A. Grayson
Organization / Sampler: EPD / brunckhorst2
PCI Project #: 35166
PCI Task #: 1.03.02.06.02.06
Fax/Email #1: swanson15@llnl.gov
DMT Additional Copies:

Analytical Lab : FRUITGROWL
TAT: 20d
Analytical Lab Log #:
Project/Network: WDRPOND
LLNL Acct #: 3297-41
Release #: UNICARD
Fax/Email #2:

Additional Instructions:

Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-ESWP-01-OW	9/9/11 10:10	SW	P	1	WDR	E120.1A	ALL	
3-ESWP-01-OW	9/9/11 10:10	SW	P	1	WDR	E150.1A	ALL	
3-ESWP-01-OW	9/9/11 10:10	SW	G	1	WDR	E360.1	ALL	
3-ESWP-01-OW	9/9/11 10:10	SW	PO	1	WDR	SM5210B-A	ALL	
3-ESWP-01-OW	9/9/11 10:10	SW	P	1	WDR	SM9221	ALL	Use 20 or more tubes: OK if bubbles are present
3-ISWP-01-OW	9/9/11 09:55	SW	P	1	WDR	E120.1A	ALL	
3-ISWP-01-OW	9/9/11 09:55	SW	P	1	WDR	E150.1A	ALL	
3-ISWP-01-OW	9/9/11 09:55	SW	PO	1	WDR	SM5210B-A	ALL	
3-WSWP-01-OW	9/9/11 09:55	SW	P	1	WDR	E120.1A	ALL	

	Relinquished Signature	Company	Date	Time		Received Signature	Company	Date	Time
1		LLNL/EPD	9/9/11	11:15	2		FGL	9/9/11	1105
2					3				
3					4				
4					5				

Revision Printed: 09/14/2011/10/32/51

Signature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT

Chain of Custody

EPD: EMAD/PRAD/ESPD
Lawrence Livermore National Laboratory
P.O. Box 808 L-629
Livermore, CA 94551

Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 54276
Document Control #: 54276
Requester/LLNL Analyst: A. Grayson
Organization / Sampler: EPD / brunckhorst2
PCI Project #: 35166
PCI Task #: 1.03.02.06.02.06
Fax/Email #1: swanson15@llnl.gov
DMT Additional Copies:

Analytical Lab : BCLABS-BAK
TAT: 20d
Analytical Lab Log #:
Project/Network: WDRPOND
LLNL Acct #: 3297-41
Release #: UNICARD
Fax/Email #2:

Additional Instructions:

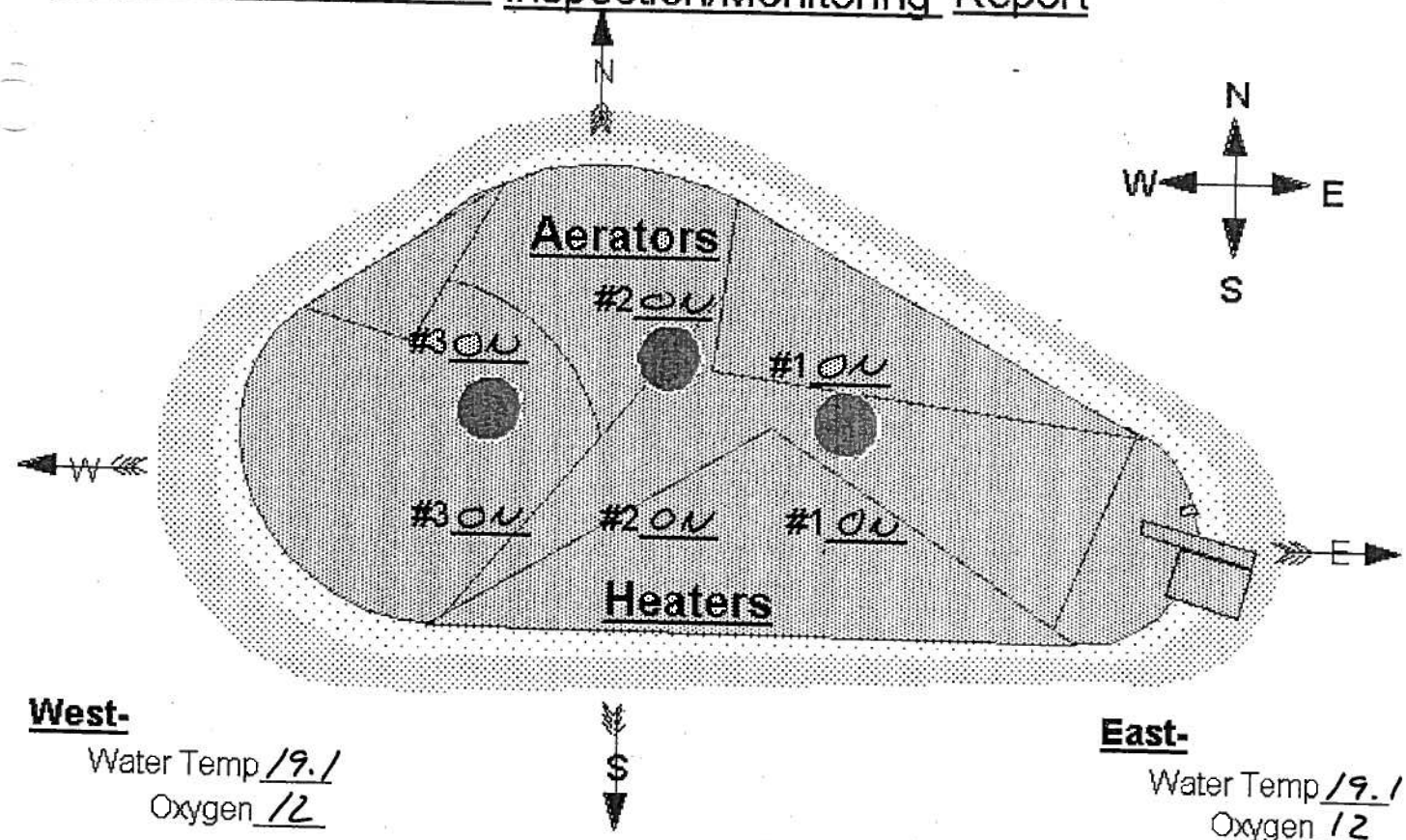
Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-ESWP-01-OW	09/19/2011 00:00	SW	P	0	WDR	S3METALS	ALL	
3-ESWP-01-OW	09/19/2011 10:10	SW	P	1	WDR	S3METALS	TOTAL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1	LLNL/EPD	9/19/2011		2			
2				3			
3				4			
4				5			

Revision Printed: 09/14/2011/10/32/51

Signature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 19.1
Oxygen 12
pH 9.80
Time 1300

Water Level -2"
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 20.0
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 19.1
Oxygen 12
pH 9.84
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

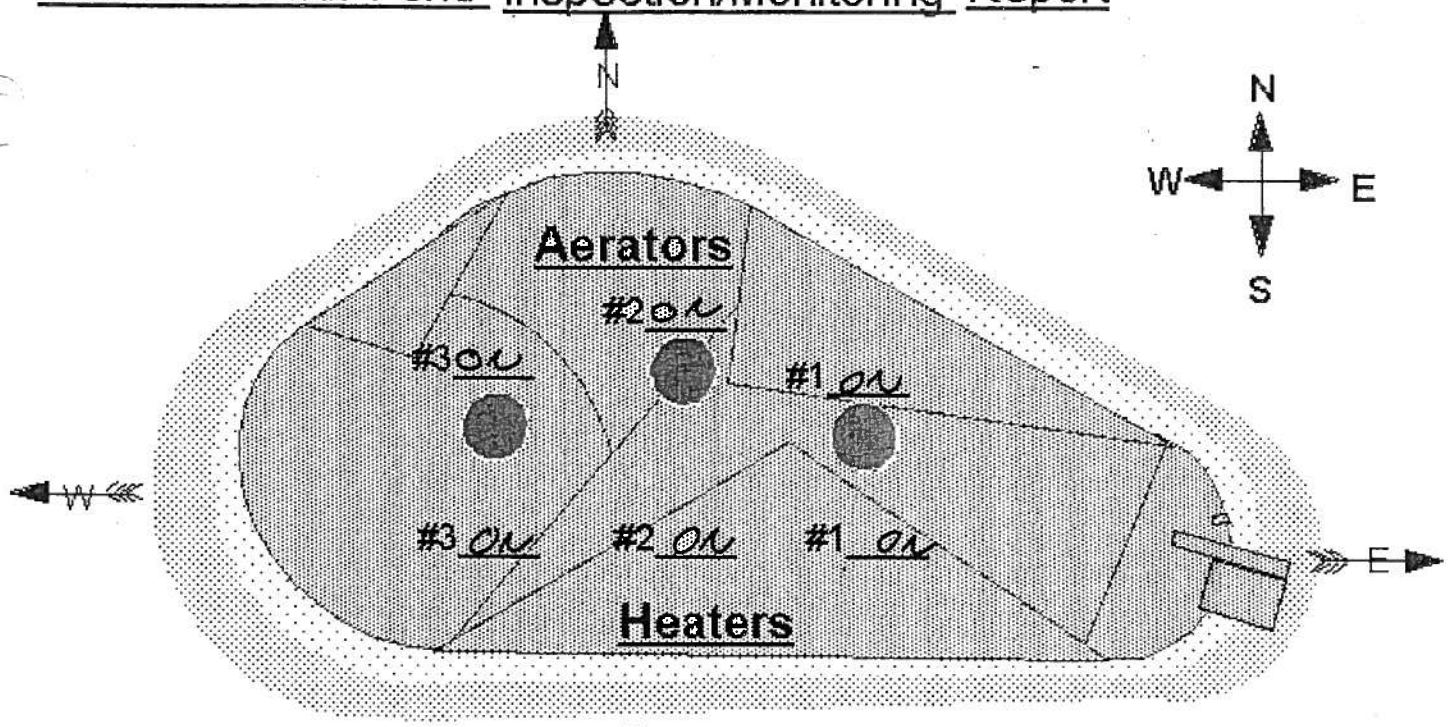
Water Level- NOT Flowing
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 6-2-11

Supervisor Review _____ Date 6-2-11

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 21.1
Oxygen 12
pH 9.77
Time 1300

Water Level -2"
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 18.9
Wind Direction E-W

East-

Water Temp 18.6
Oxygen 12
pH 9.86
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion some
Animal Burrows some
Weed Control some

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

Percolation Pond

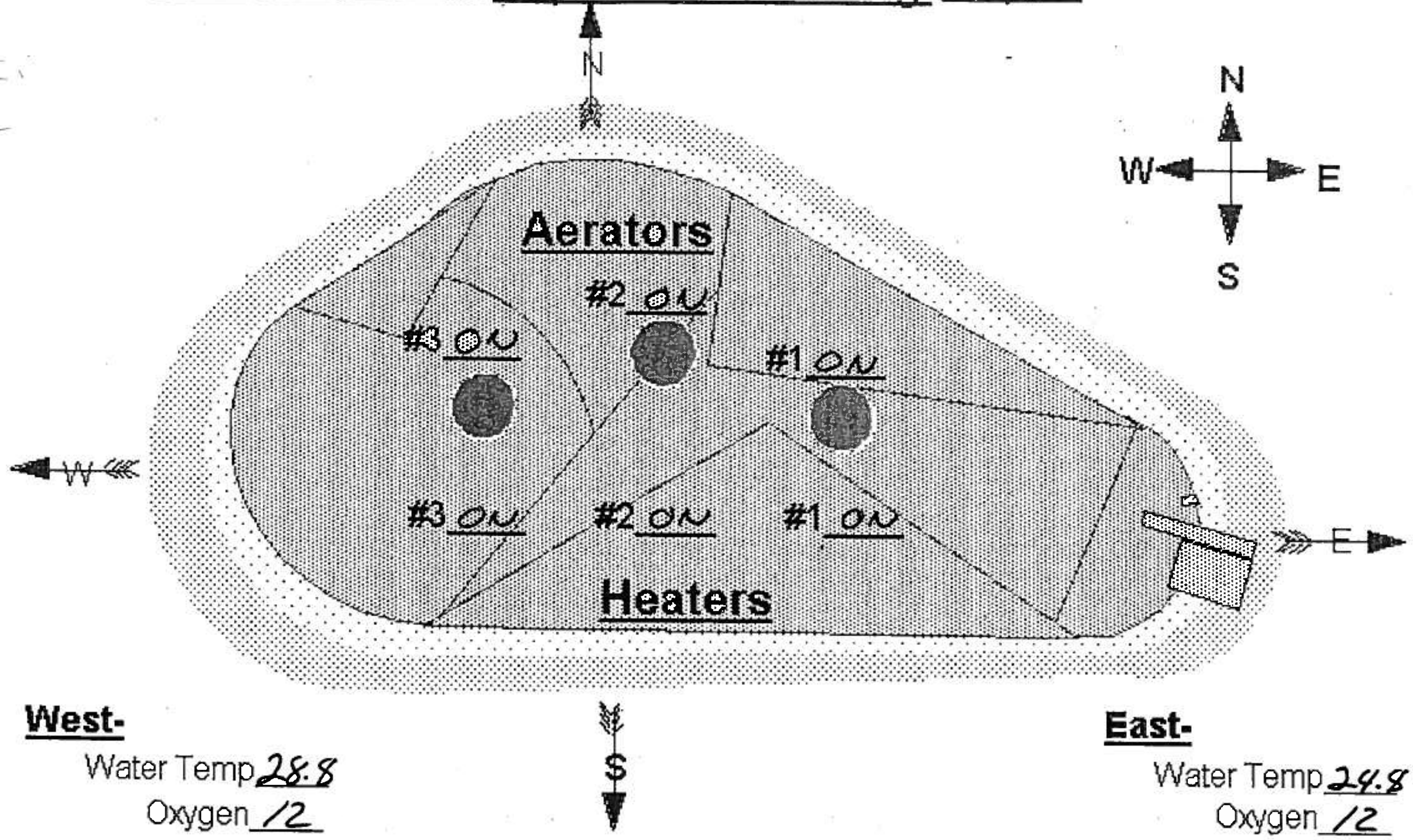
Water Level- NOT FLOWING
Erosion some
Animal Burrows some
Weed Control some

Inspected by _____ 6-6-11 Date

Supervisor Review _____ 6-6-11 Date

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 28.8
Oxygen 12
pH 9.73
Time 1300

Water Level -1¼"
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added Ø
Air Temp. 30.6
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 24.8
Oxygen 12
pH 9.69
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

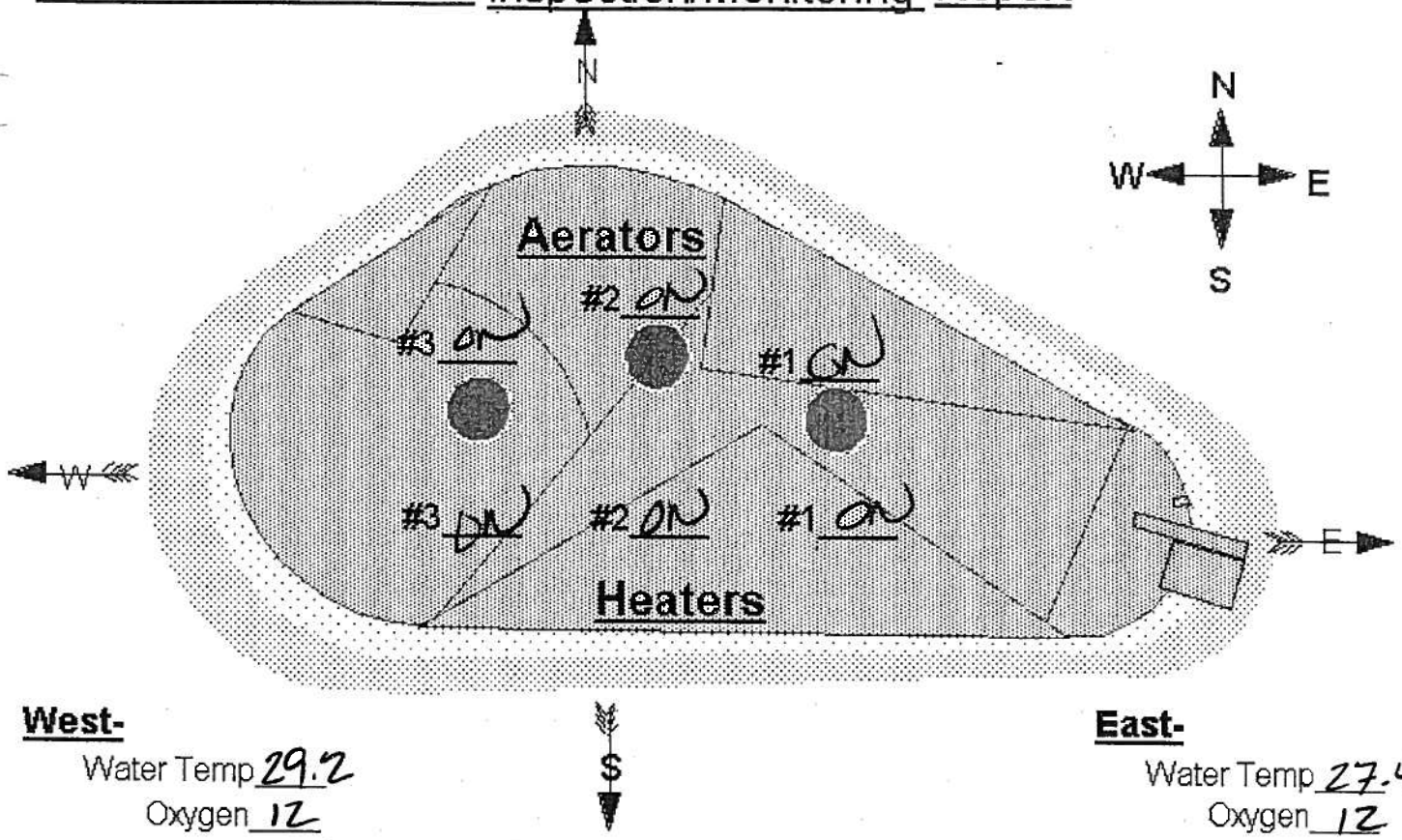
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

[signature] 6-9-11
Inspected by **Date**

[signature] 6-10-11
Supervisor Review **Date**

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 29.2
Oxygen 12
pH 9.98
Time 1320

East-

Water Temp 27.4
Oxygen 12
pH 9.86
Time 1300

Water Level -2"
Water Meter-Stop 66872274
Water Meter-Start 66872274.

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Water Added 0
Air Temp. 31.1
Wind Direction W to E

ODOR---- ____

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

Water Level- Not flowing.
Erosion Some
Animal Burrows Some
Weed Control Some

Dave Anwood
Inspected by

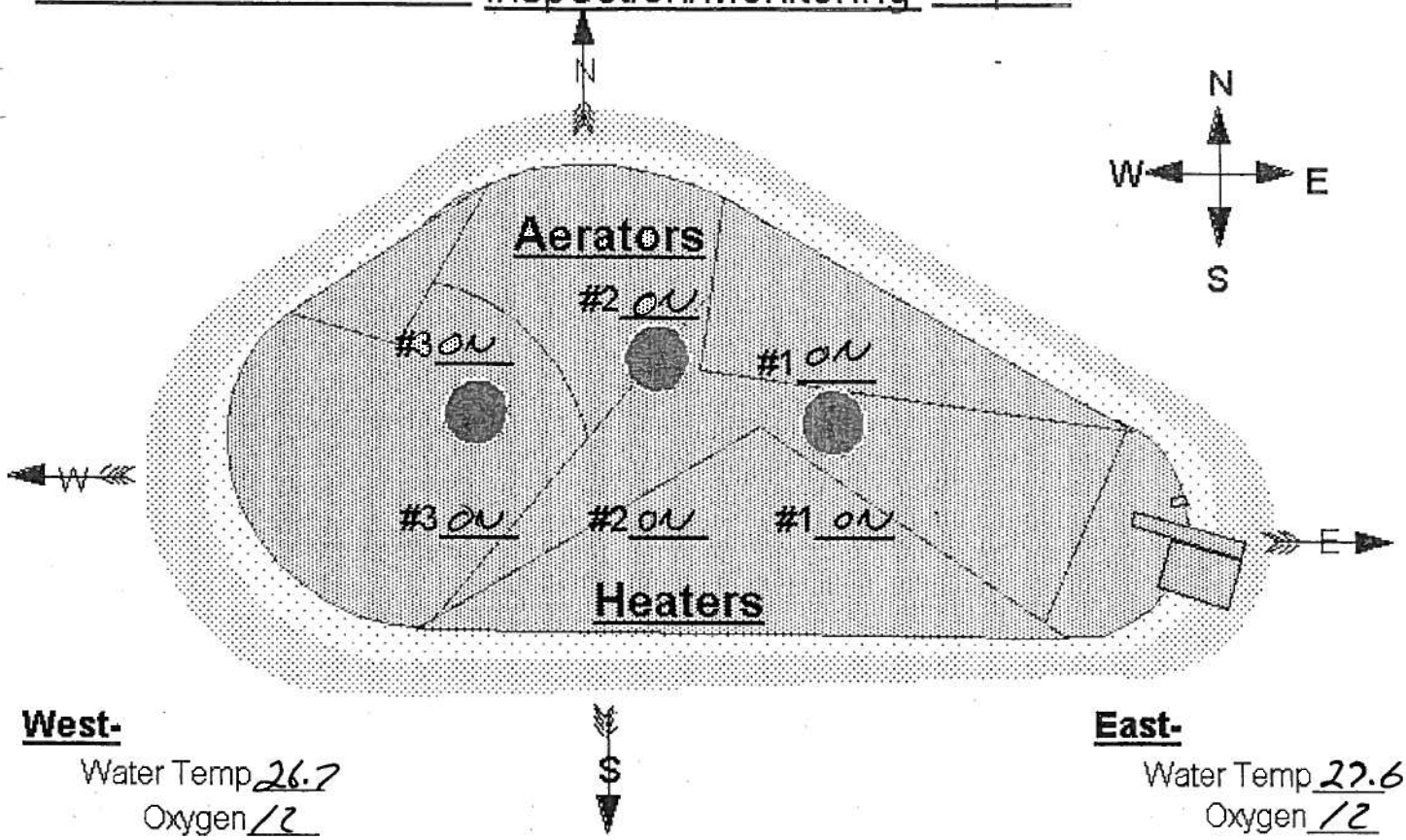
6-13-11
Date

Dan Anwood
Supervisor Review

6-13-11
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.7
Oxygen 12
pH 9.25
Time 1300

Water Level -1¼"
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 31.1
Wind Direction NONE

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----SLIGHT

East-

Water Temp 27.6
Oxygen 12
pH 9.80
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

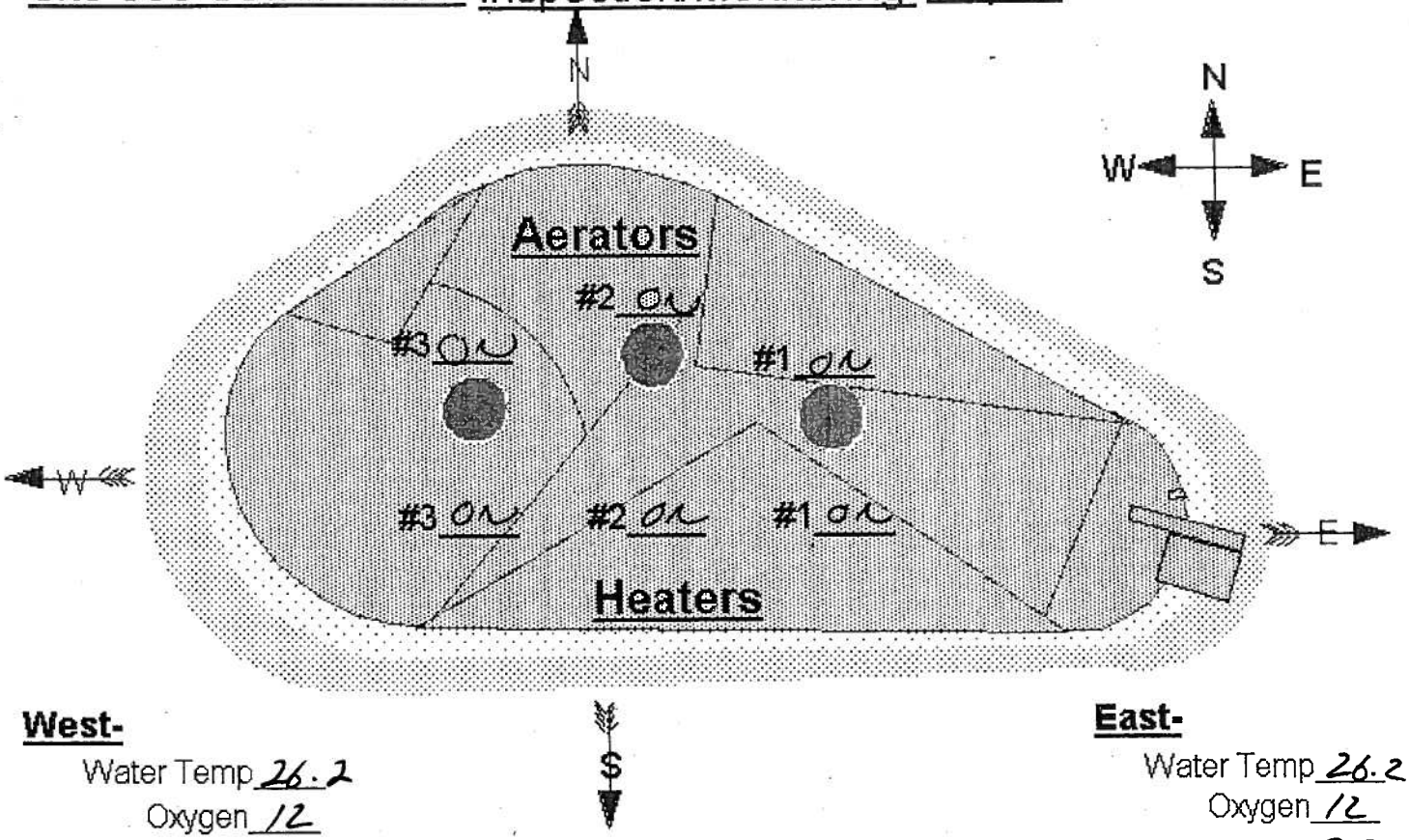
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 6-16-11

Supervisor Review _____ Date 6-16-11

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.2
Oxygen 12
pH 9.73
Time 1300

Water Level -34"
Water Meter-Stop 6892294
Water Meter-Start 6872274

Water Added 0
Air Temp. 33.3
Wind Direction W-E

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR----SLIGHT

East-

Water Temp 26.2
Oxygen 12
pH 9.73
Time 1330

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion some
Animal Burrows some
Weed Control some

Percolation Pond

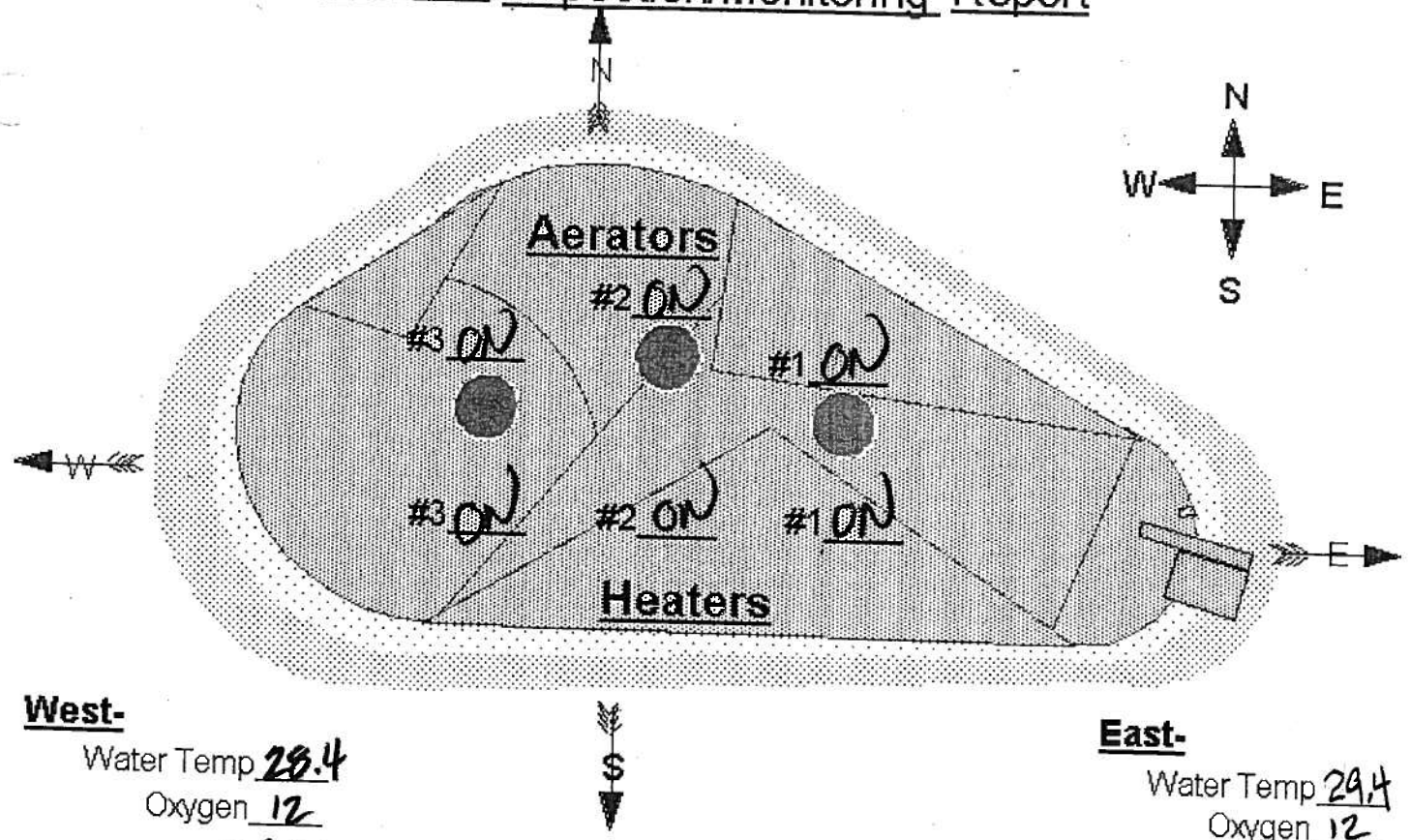
Water Level- not flowing
Erosion some
Animal Burrows some
Weed Control some

Inspected by — Date 6-23-11

Supervisor Review — Date 6-26-11

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 28.4
Oxygen 12
pH 9.74
Time 1300

Water Level -3'1/2
Water Meter-Stop 6872274
Water Meter-Start 6872274.

Water Added 0
Air Temp. 31.1
Wind Direction W to E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- NONE

East-

Water Temp 29.4
Oxygen 12
pH 9.79
Time 1300

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Som
Animal Burrows Som
Weed Control Som

Percolation Pond

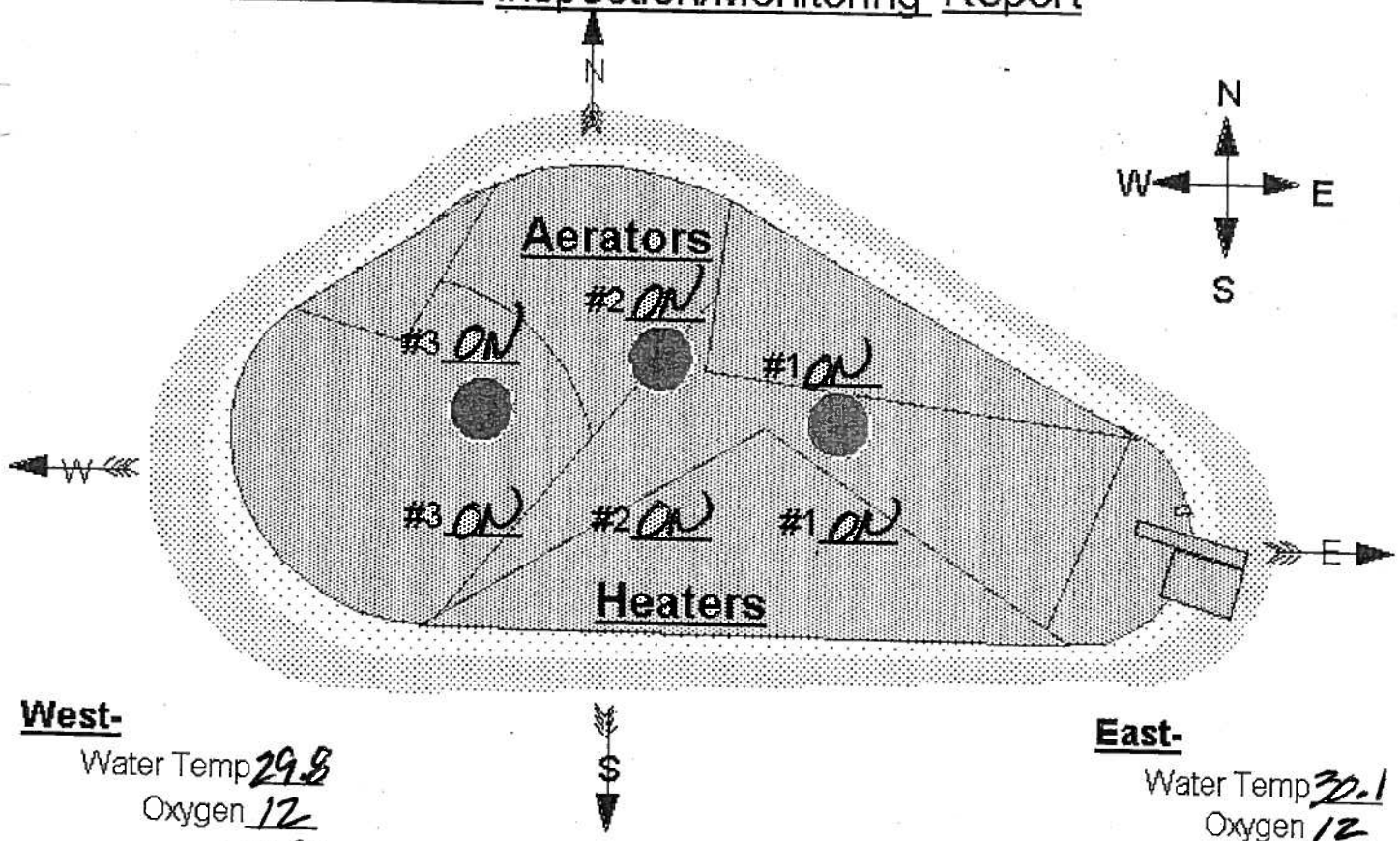
Water Level- Not flowing
Erosion Som
Animal Burrows Som
Weed Control Som

Inspected by Dave Amrine 6-27-2011 Date

Supervisor Review Dave Amrine 6-27-2011 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 29.8
Oxygen 12
pH 9.91
Time 1400

Water Level 33/4
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 31.1
Wind Direction WtoE

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- None

East-

Water Temp 30.1
Oxygen 12
pH 9.84
Time 1410

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Sam
Animal Burrows Sam
Weed Control Sam

Percolation Pond

Water Level- Not flowing
Erosion Sam
Animal Burrows Sam
Weed Control Sam

I Dave Annen
Inspected by

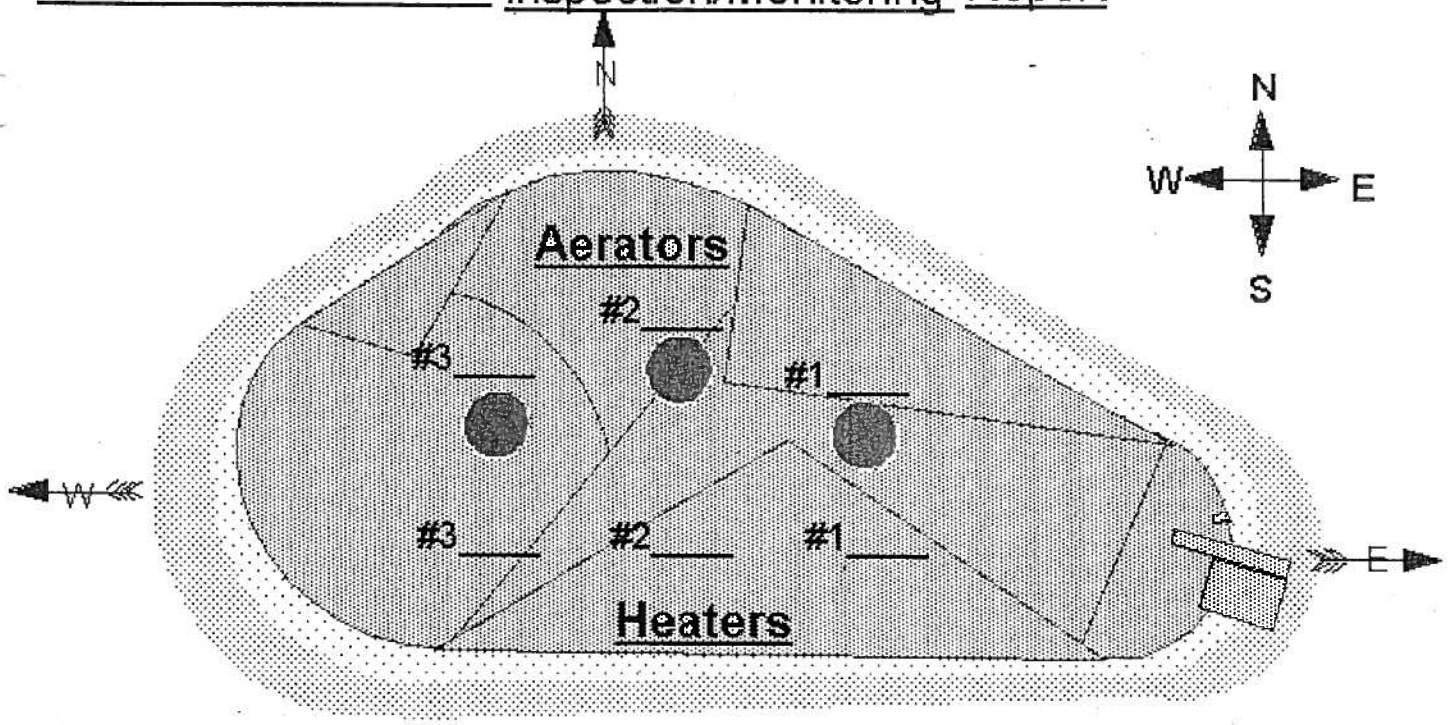
6-30-11
Date

I Dave Annen
Supervisor Review

6-30-11
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 30.1
Oxygen 12
pH 10.4
Time 1100

Water Level -4.0
Water Meter-Stop 6672274
Water Meter-Start 6672274

Water Added 0
Air Temp 37.8
Wind Direction NW

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- None

East-

Water Temp 30.2
Oxygen 12
pH 10.2
Time 1100

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Low
Animal Burrows Low
Weed Control Low

Percolation Pond

Water Level- Not flowing
Erosion Low
Animal Burrows Low
Weed Control Low

Dave Annero
Inspected by

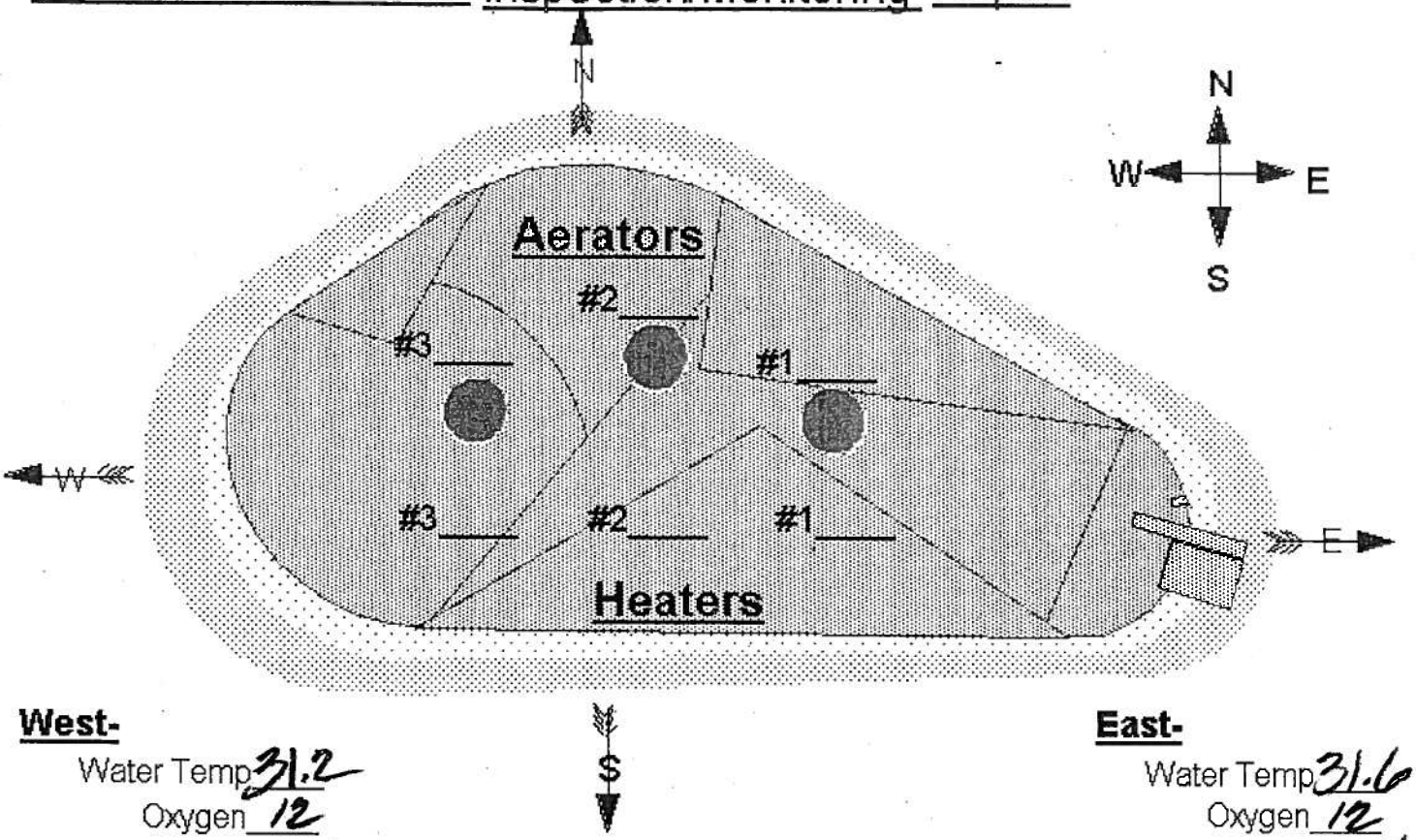
7-4-11
Date

Dave Annero
Supervisor Review

7-4-11
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 31.2
Oxygen 12
pH 10.4
Time 1100

East-

Water Temp 31.6
Oxygen 12
pH 10.4
Time 1100

Water Level -4 3/4
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 37.8
Wind Direction NE

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- None

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

Water Level- Not Flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Dave Amerio
Inspected by

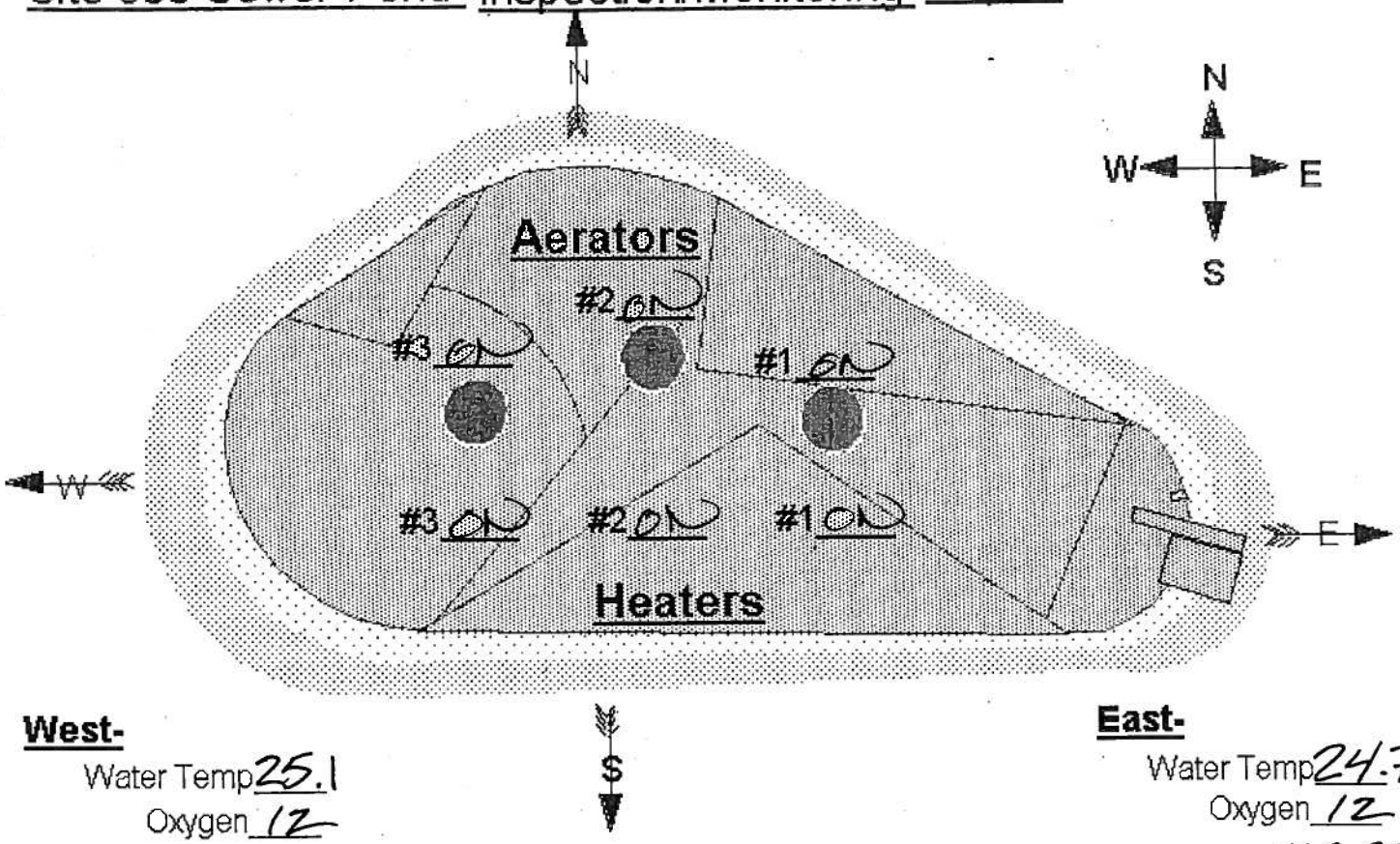
7-7-11
Date

Dave Amerio
Supervisor Review

7-7-11
Date

Comments Turn make up water ON Today - 1500 Hrs

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 25.1
Oxygen 12
pH 9.28
Time 1300

East-

Water Temp 24.7
Oxygen 12
pH 9.32
Time 1300

Water Level 4 1/2
Water Meter-Stop 6872274.
Water Meter-Start 6902206

Water Added 29,932 gal
Air Temp. 25.6
Wind Direction W to E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- slight.

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion some
Animal Burrows some
Weed Control some

Percolation Pond

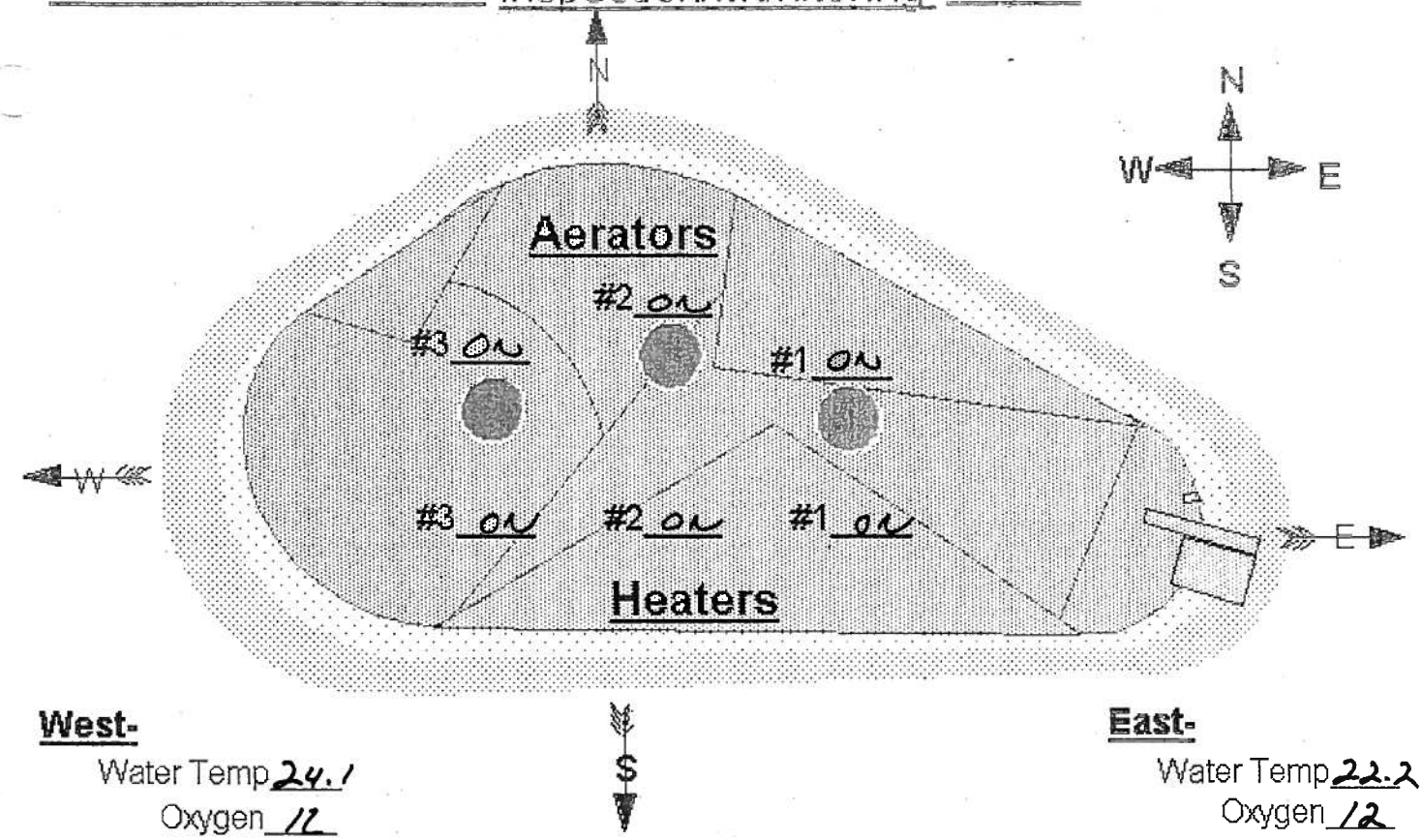
Water Level- Not flowing
Erosion some
Animal Burrows some
Weed Control some

Dave Amaro — 7-11-11
Inspected by — Date

Dave Amaro — 7-11-11
Supervisor Review — Date

Comments WATER ON -

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 24.1
Oxygen 12
pH 9.29
Time 1300

Water Level -4½"
Water Meter-Stop 6919052
Water Meter-Start 6902206

Water Added 16,846
Air Temp. 23.3
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----SLIGHT

East-

Water Temp 22.2
Oxygen 12
pH 7.91
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

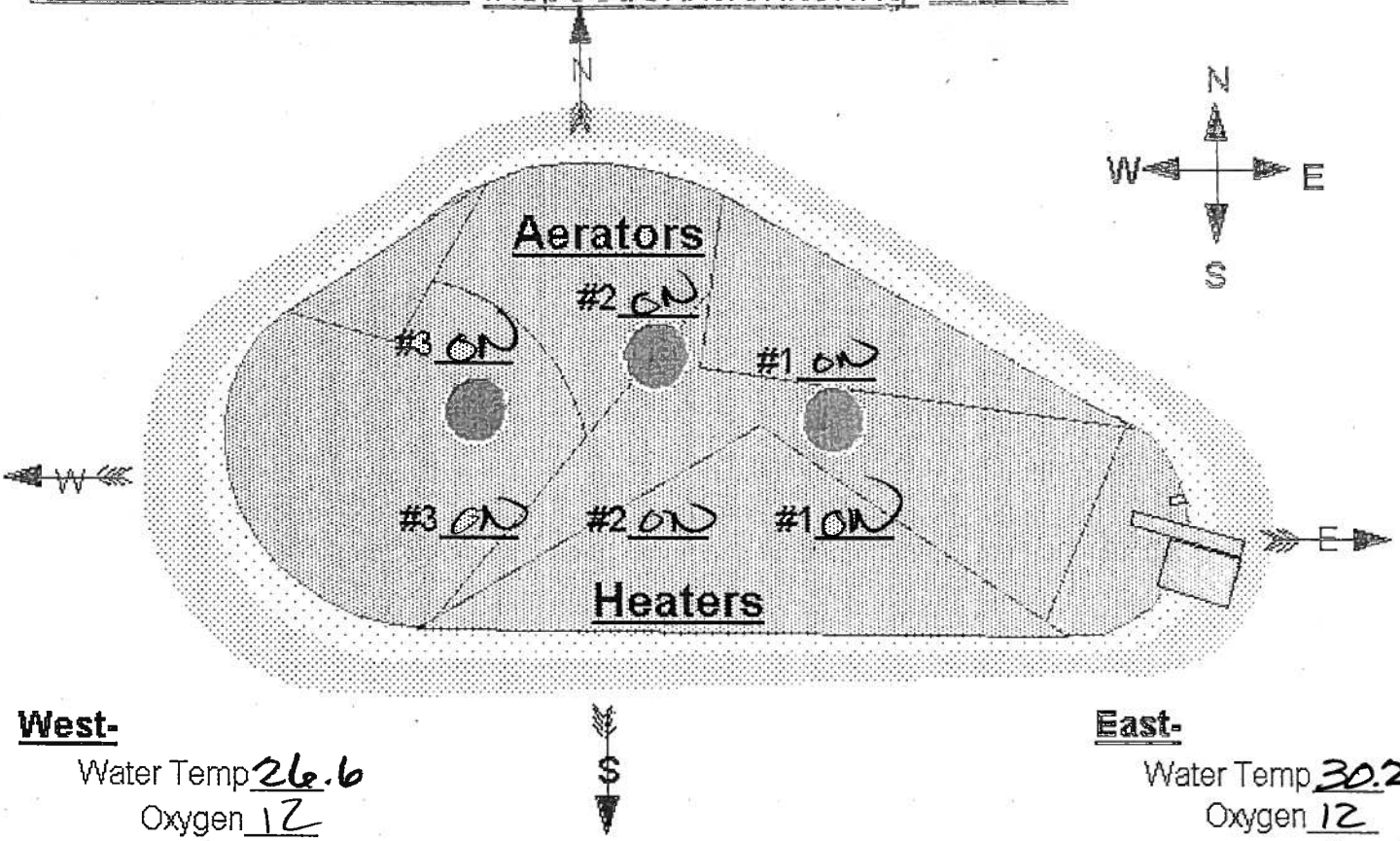
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 7-14-11

Supervisor Review _____ Date 7-14-11

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.6
Oxygen 12
pH 9.46
Time 1300

Water Level 2 3/4
Water Meter-Stop 6919446
Water Meter-Start 6919052

Water Added 23394
Air Temp. 29.4
Wind Direction W to E

East-

Water Temp 30.2
Oxygen 12
pH 9.63
Time 1300

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- Slight.

Percolation Pond

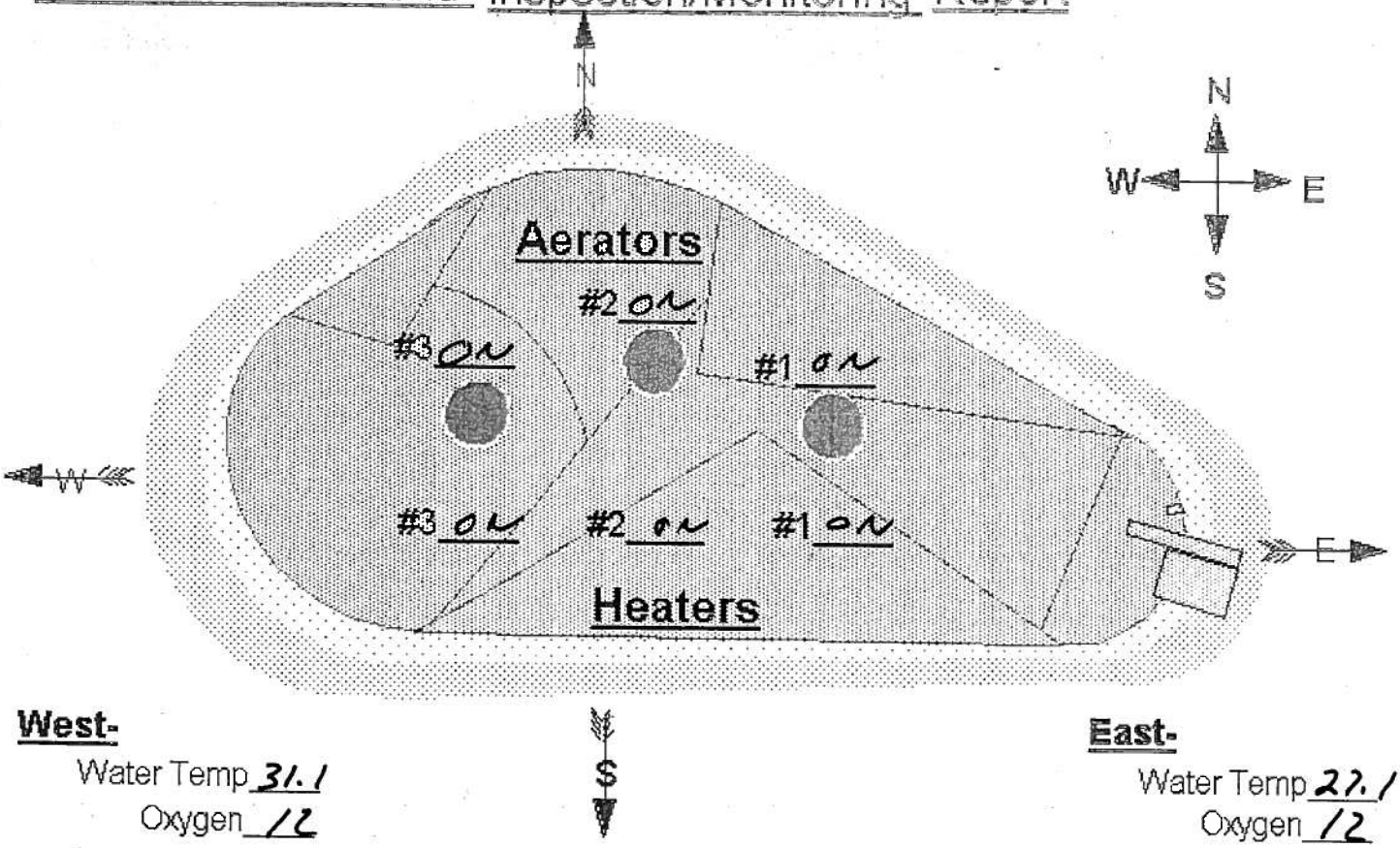
Water Level- Not Flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Inspected by [signature] 7-18-11 Date

Supervisor Review [signature] 7-18-11 Date

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 31.1
Oxygen 12
pH 9.51
Time 1300

Water Level -2"
Water Meter-Stop 6960319
Water Meter-Start 6919052

Water Added 41,267
Air Temp. 33.3
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----/ SLIGHT

East-

Water Temp 27.1
Oxygen 12
pH 9.48
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

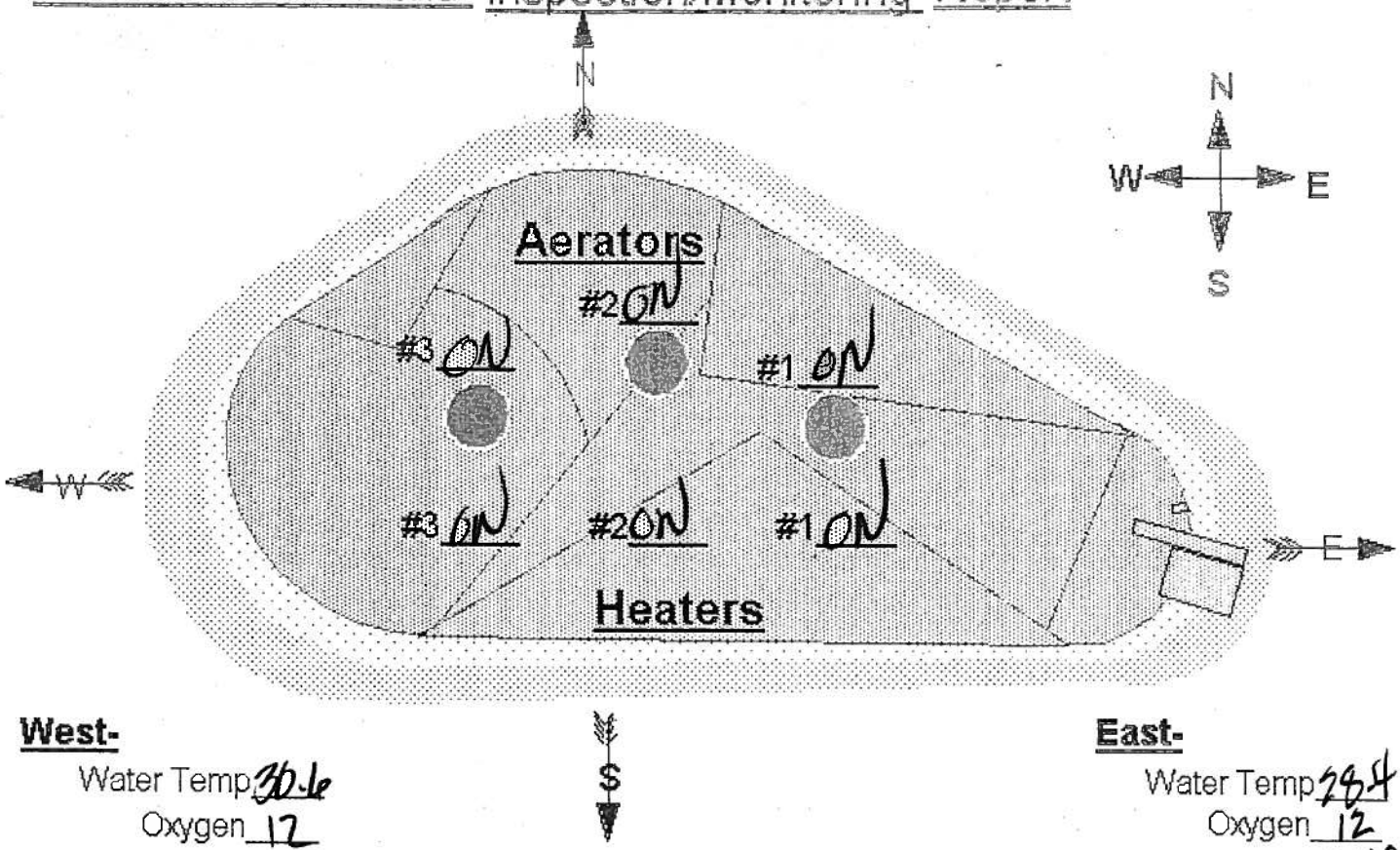
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 7-21-11

Supervisor Review _____ Date 7-21-11

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 30.6
Oxygen 12
pH 9.49
Time 1300

Water Level -1"
Water Meter-Stop 6988310
Water Meter-Start 6960319

Water Added 27981
Air Temp. 30.5
Wind Direction E to W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----/ ____

East-

Water Temp 28.4
Oxygen 12
pH 9.49
Time 1300

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Som
Animal Burrows Som
Weed Control Som

Percolation Pond

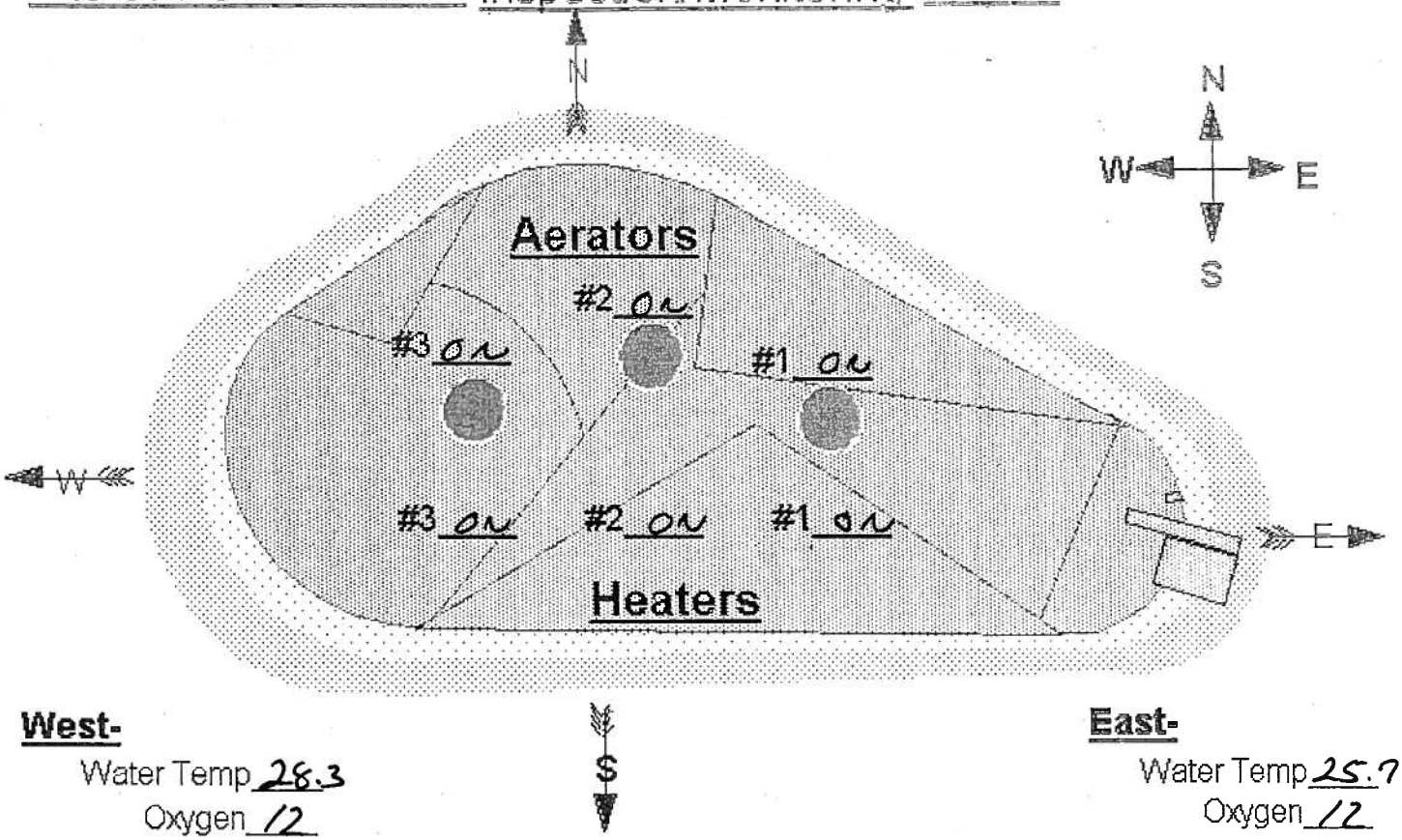
Water Level- not flowing
Erosion Som
Animal Burrows Som
Weed Control Som

Inspected by [signature] 7-25-11 Date

Supervisor Review [signature] 7-25-11 Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 28.3
Oxygen 12
pH 9.51
Time 1300

Water Level +½"
Water Meter-Stop 6999771
Water Meter-Start 6988310

Water Added 11,461
Air Temp. 36.1
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 25.7
Oxygen 12
pH 9.48
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

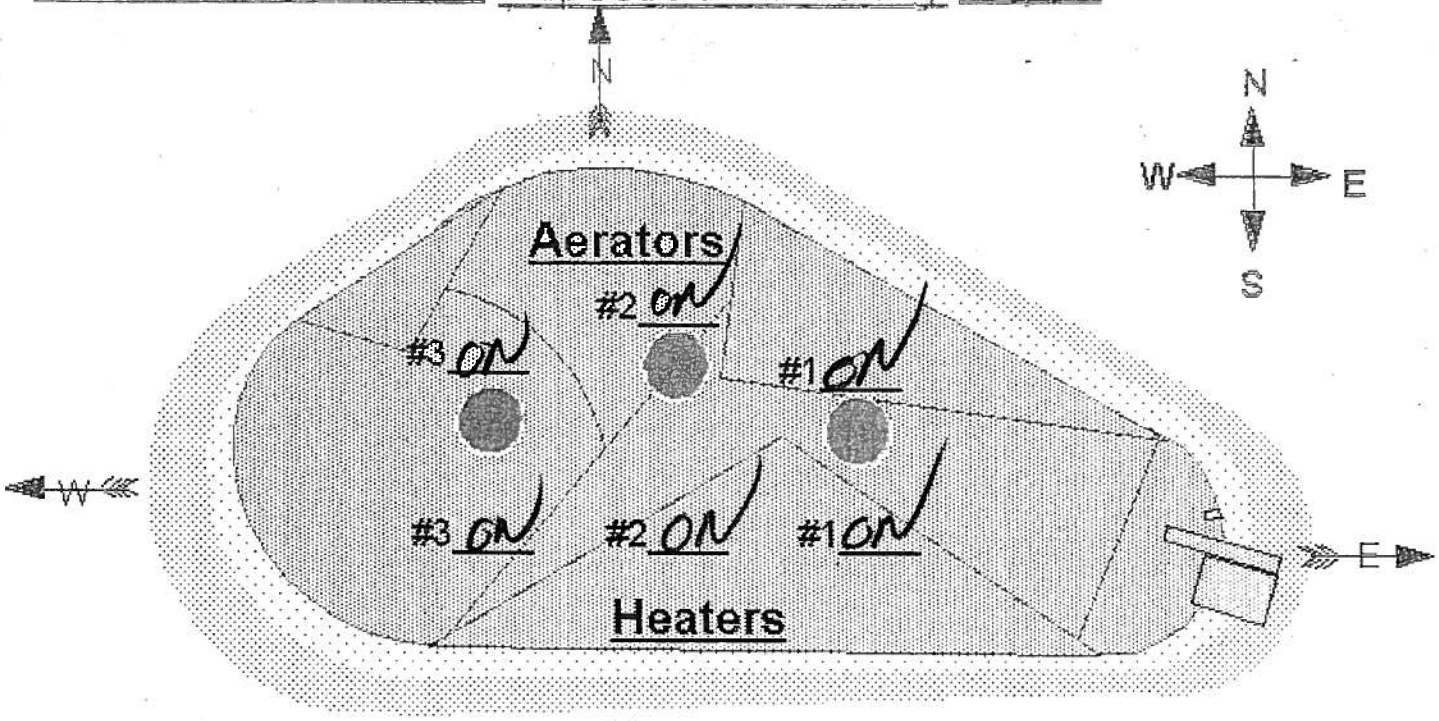
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 7-28-11

Supervisor Review _____ Date 7-28-11

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 36.0
Oxygen 12
pH 9.54
Time 1360

East-

Water Temp 27.5
Oxygen 12
pH 9.50
Time 1300

Water Level 0
Water Meter-Stop 7027452
Water Meter-Start 6949771

Water Added 27,681
Air Temp. 81.1
Wind Direction WtoE

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----/ ____

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Sm
Animal Burrows Sm
Weed Control Sm

Percolation Pond

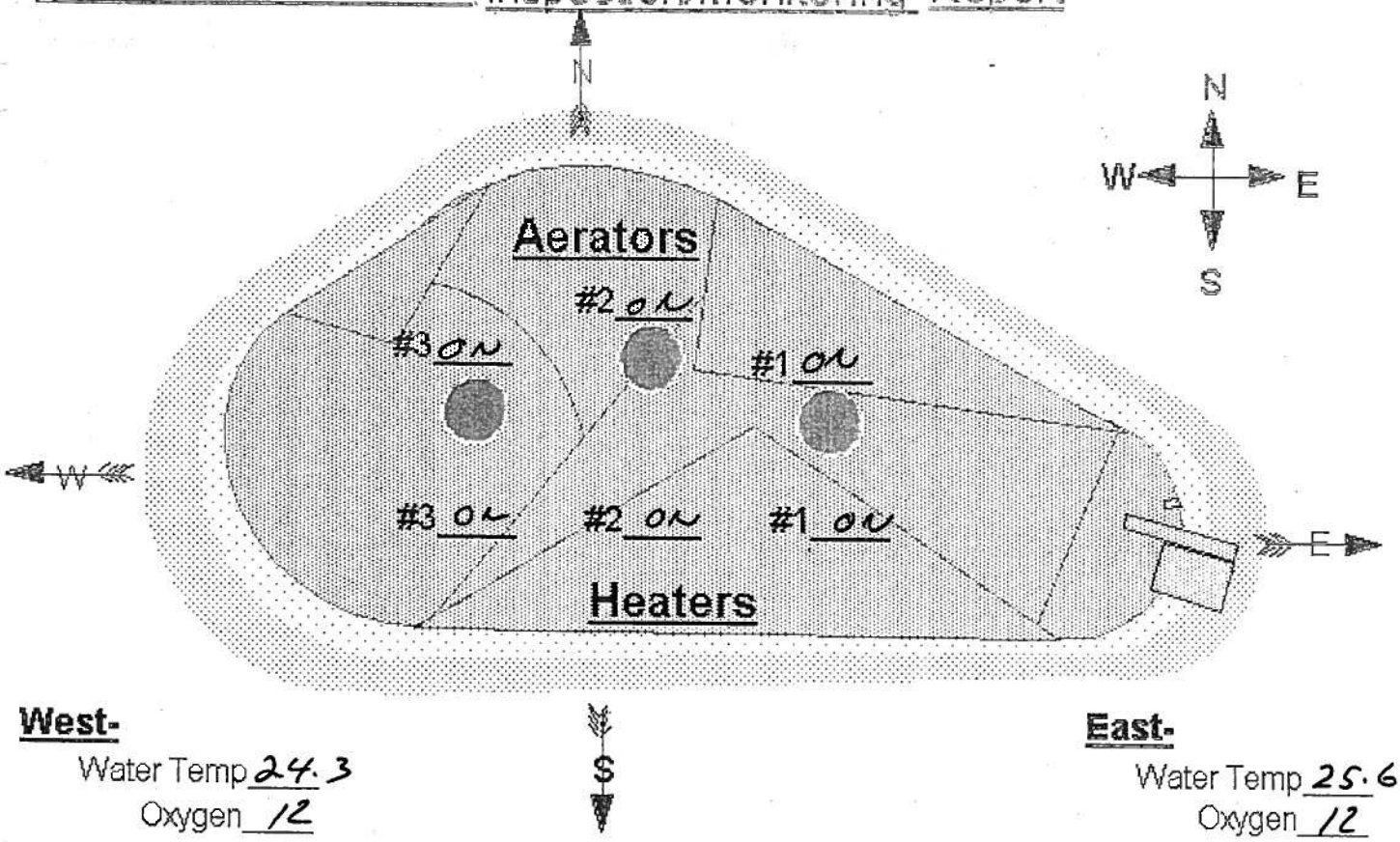
Water Level- Not Flowing
Erosion Sm
Animal Burrows Sm
Weed Control Sm

Inspected by Dave Arnold 8-1-11
Date

Supervisor Review Dave Arnold 8-1-11
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 24.3
Oxygen 12
pH 9.38
Time 1300

Water Level +½"
Water Meter-Stop 7028275
Water Meter-Start 7028275

Water Added 0
Air Temp. 28.3
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----1 SLIGHT

East-

Water Temp 25.6
Oxygen 12
pH 9.12
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

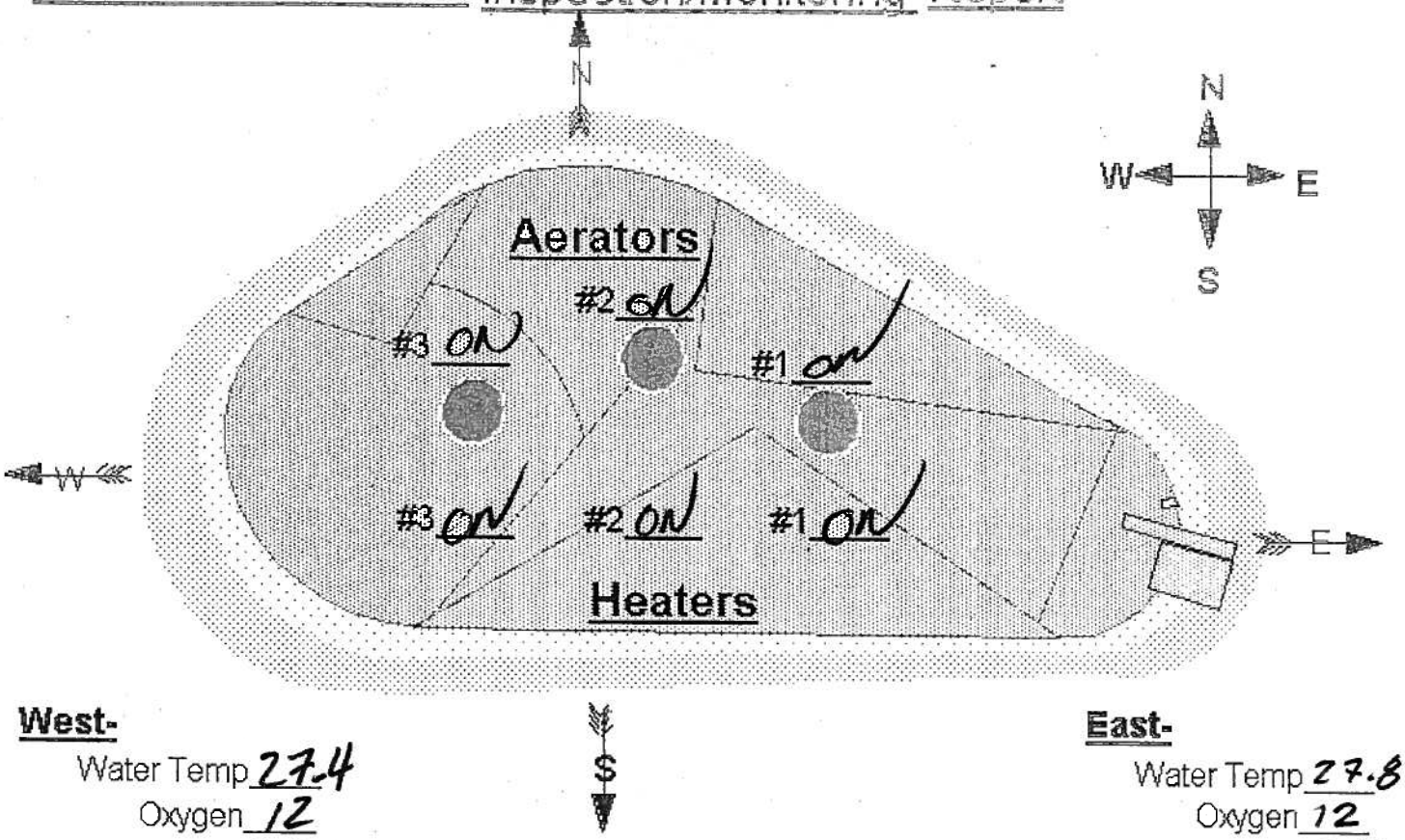
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 8-4-11

Supervisor Review _____ Date 8-7-11

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 27.4
Oxygen 12
pH 9.42
Time 1330

East-

Water Temp 27.8
Oxygen 12
pH 9.43
Time 1330

Water Level -1/4
Water Meter-Stop 7028279
Water Meter-Start 7028279.

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Water Added 0
Air Temp. 33.3
Wind Direction W+E

ODOR---- ____

Erosion Sm
Animal Burrows Sm
Weed Control Sm

Percolation Pond

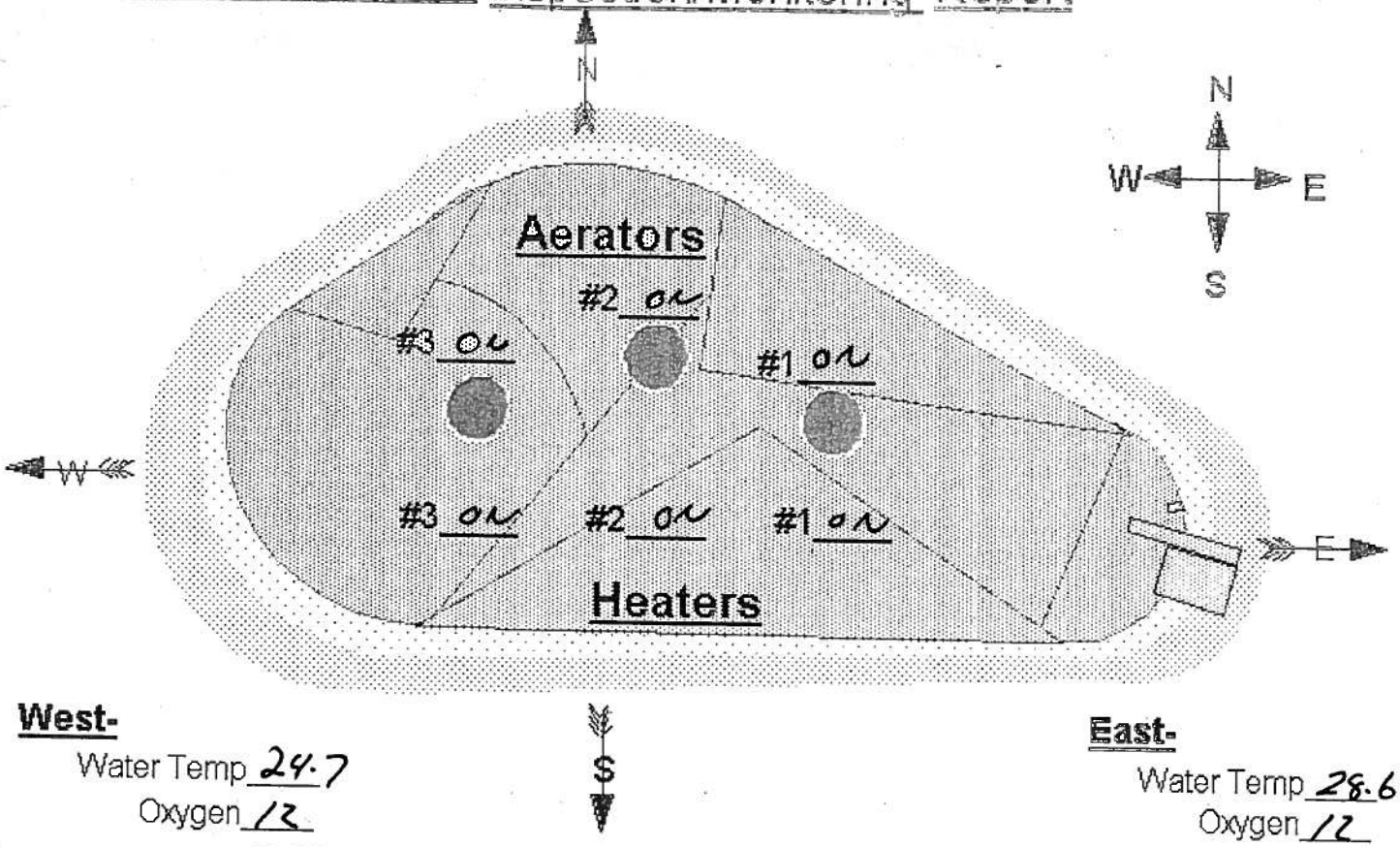
Water Level- No Standing
Erosion Sm
Animal Burrows Sm
Weed Control Sm

Inspected by [signature] 9-8-11 Date

Supervisor Review [signature] 9-8-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 24.7
Oxygen 12
pH 9.37
Time 1300

Water Level 1/4"
Water Meter-Stop 7028275
Water Meter-Start 7028279

Water Added 0
Air Temp. 31.7
Wind Direction W-E

East-

Water Temp 28.6
Oxygen 12
pH 9.36
Time 1330

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

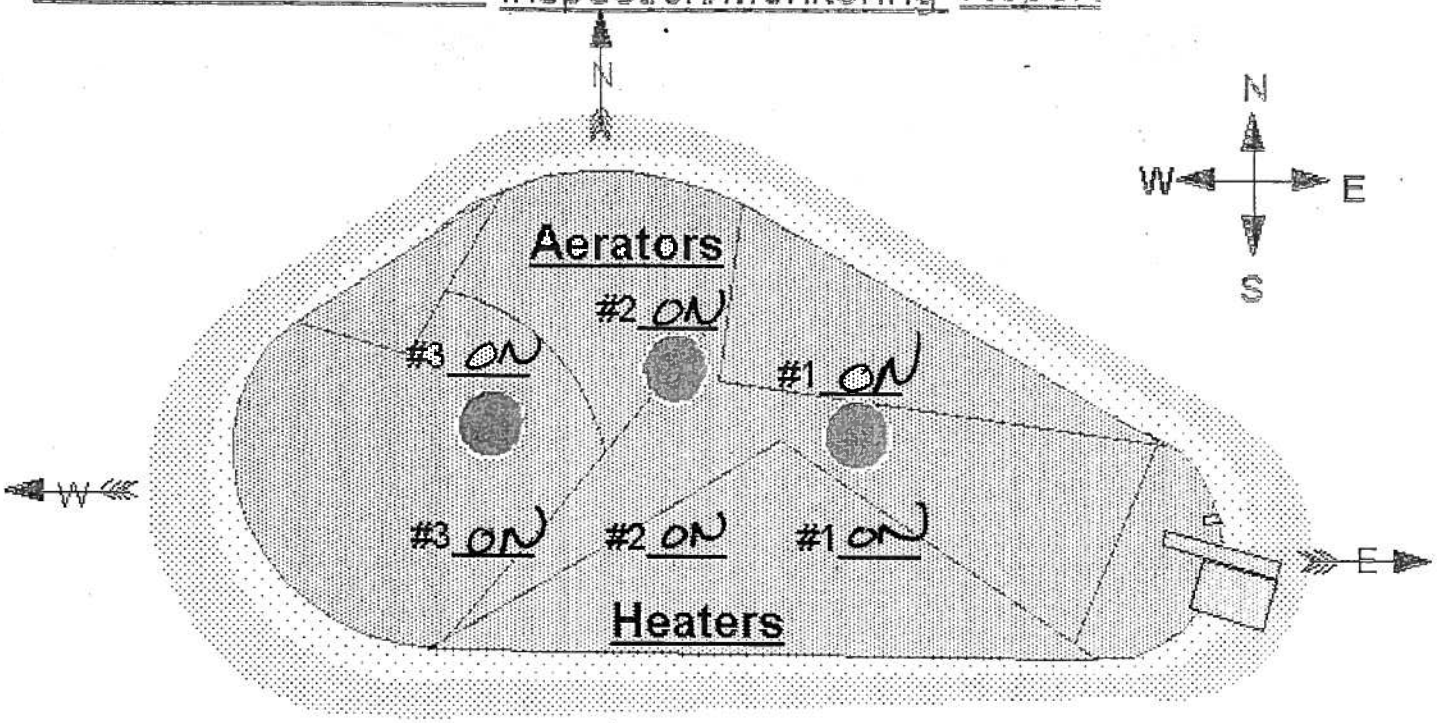
Water Level- NOT Flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Inspected by _____ Date 8-11-11

Supervisor Review _____ Date 8-11-11

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 29.4
Oxygen 12
pH 9.48
Time 1300

Water Level -1/2
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 37.8
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- Slight

East-

Water Temp 29.2
Oxygen 12
pH 9.46
Time 1300

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

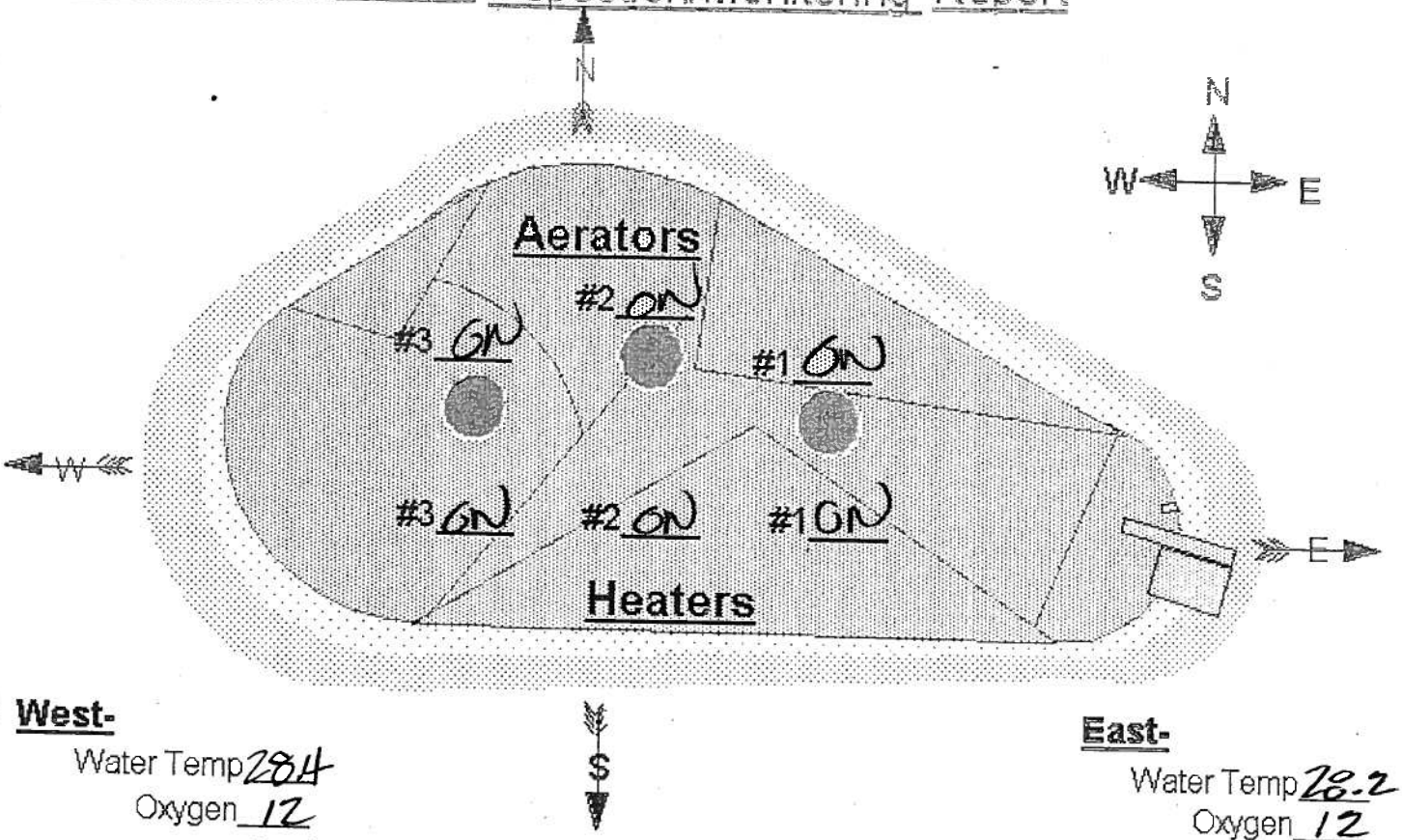
Water Level- Not flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Inspected by Dan Arnold 8-15-11 Date

Supervisor Review Dan Arnold 8-15-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 28.4
Oxygen 12
pH 9.71
Time 1300

East-

Water Temp 28.2
Oxygen 12
pH 9.66
Time 1300

Water Level -1"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added -0
Air Temp. 33.3
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- slight

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Som
Animal Burrows Som
Weed Control Som

Percolation Pond

Water Level- not flowing
Erosion Som
Animal Burrows Som
Weed Control Som

Dave Amrozo
Inspected by

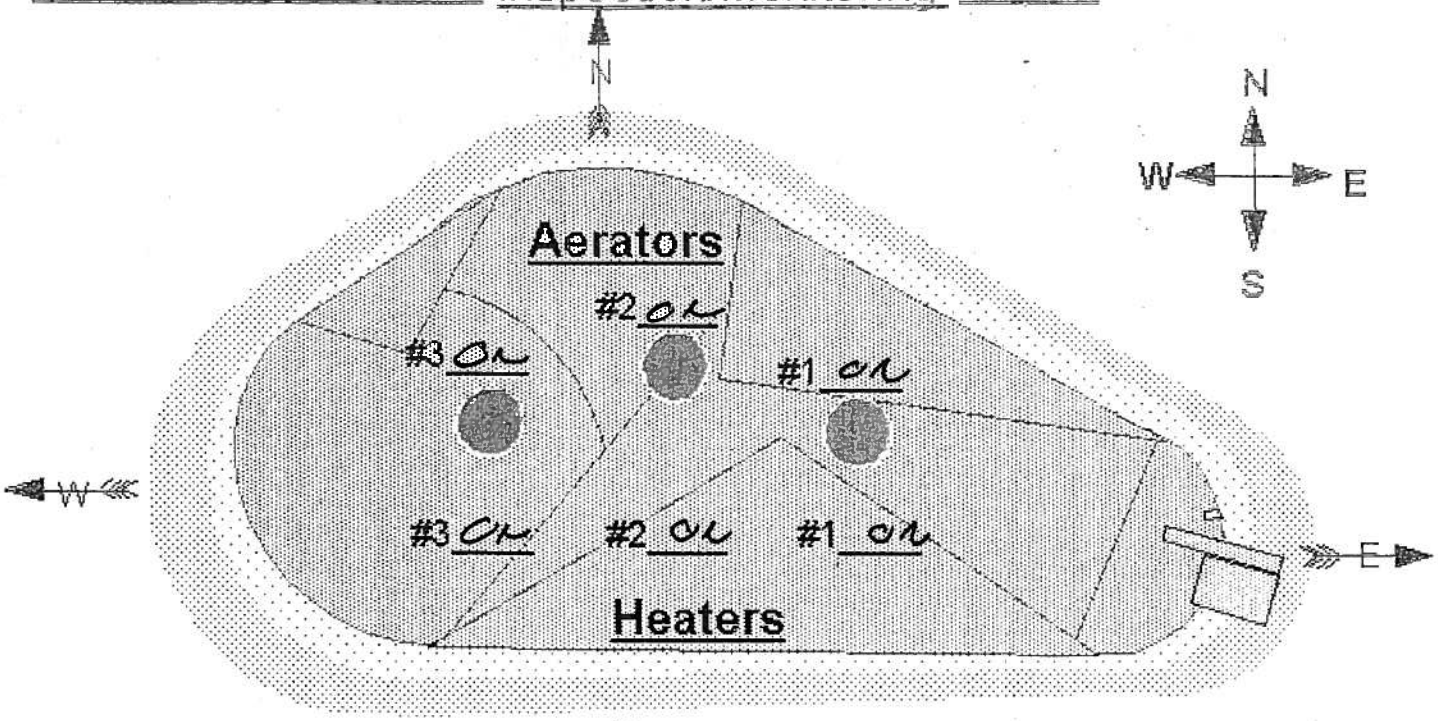
8-22-11
Date

Dave Amrozo
Supervisor Review

8-22-11
Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 29.1
Oxygen 12
pH 9.88
Time 1300

Water Level -1"
Water Meter-Stop 2028279
Water Meter-Start 2028279

Water Added 31,178
Air Temp. 36.7
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----Slight

East-

Water Temp 28.3
Oxygen 12
pH 9.90
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

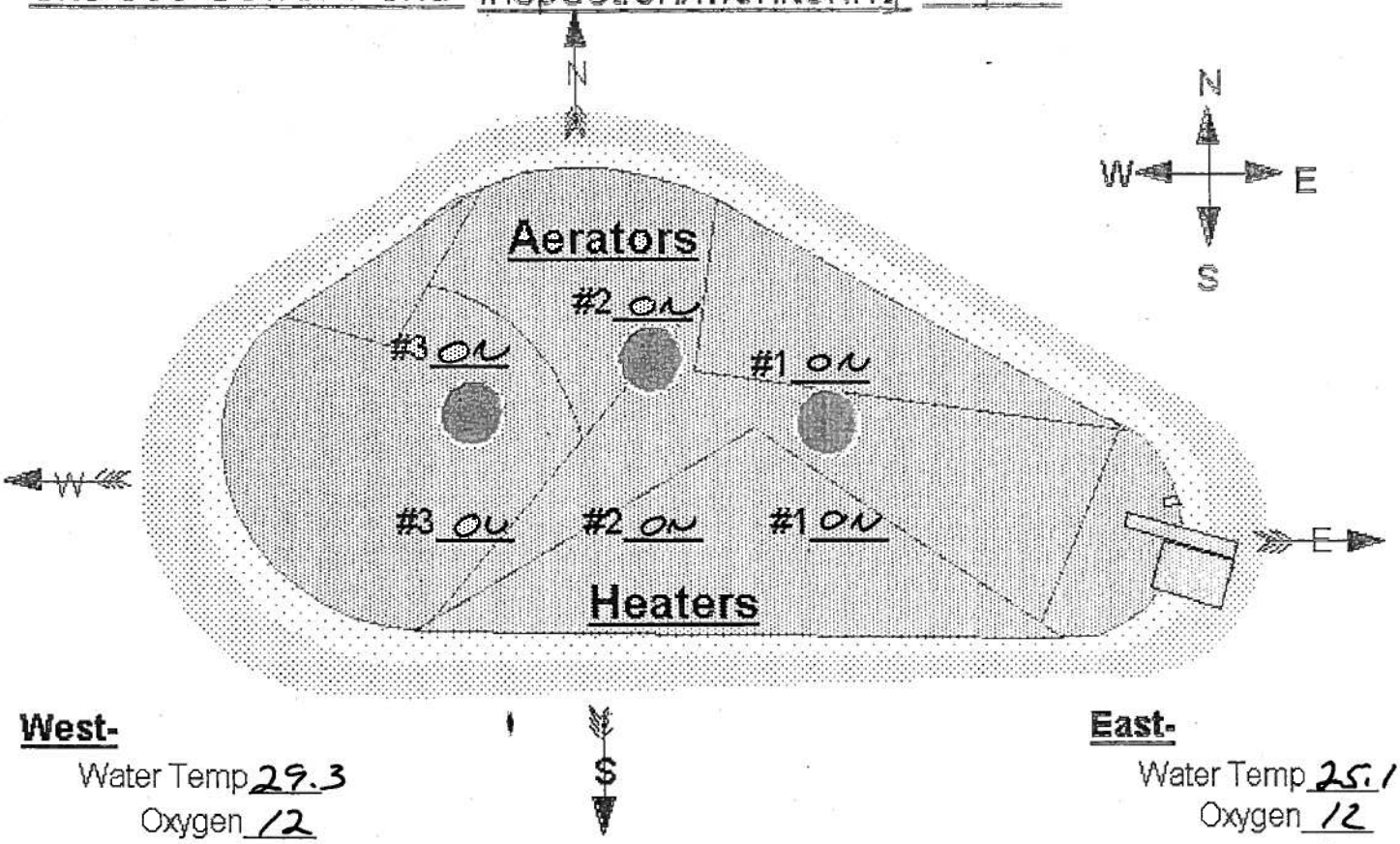
Water Level- Not Flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Inspected by _____ Date 8-25-11

Supervisor Review _____ Date 8-25-11

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 29.3
Oxygen 12
pH 9.28
Time 1300

Water Level -1"
Water Meter-Stop 7028209
Water Meter-Start 7028209

Water Added 0
Air Temp. 33.3
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- I SLIGHT

East-

Water Temp 25.1
Oxygen 12
pH 9.20
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

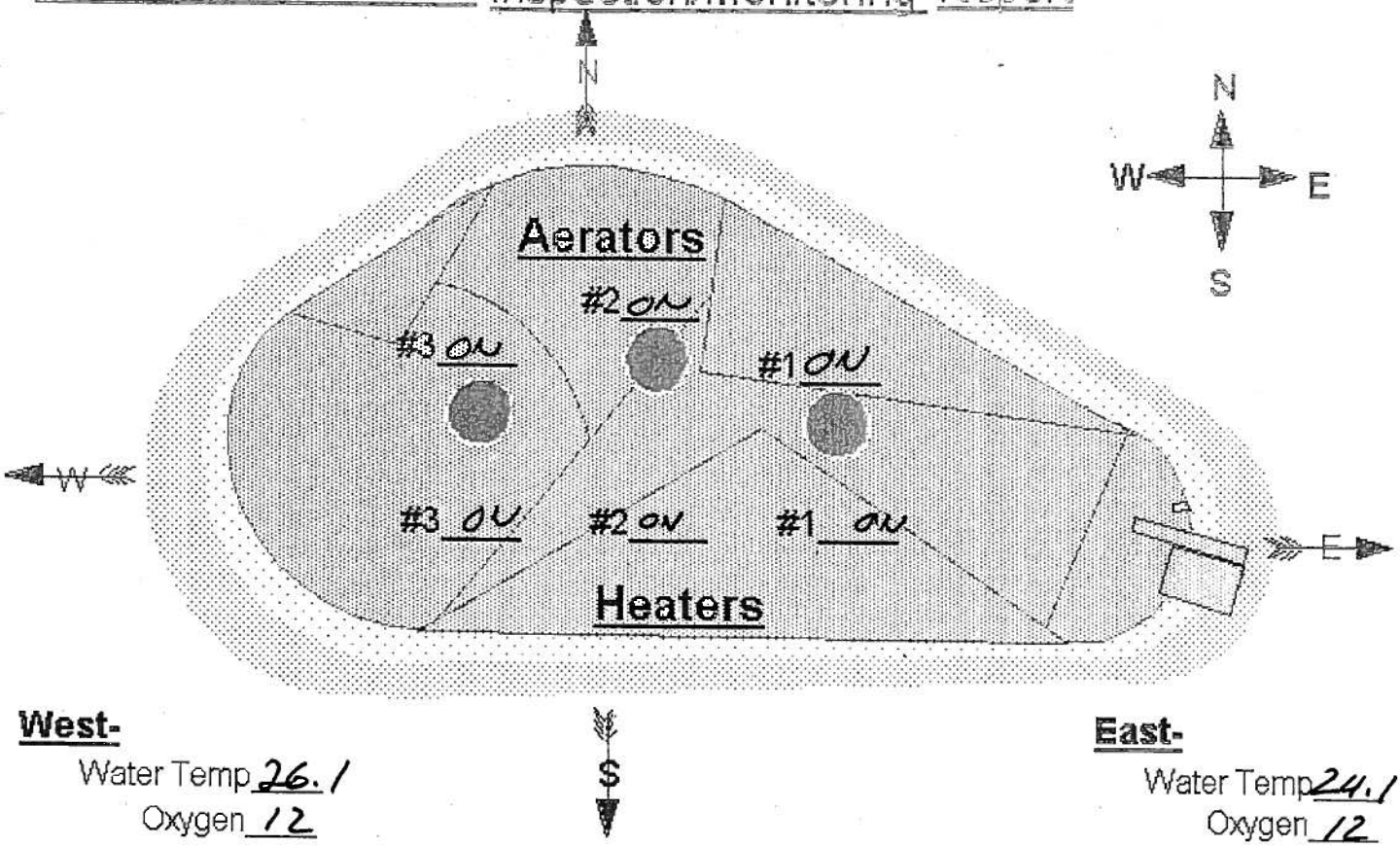
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by [signature] 8-28-11 Date

Supervisor Review [signature] 8-28-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.1
Oxygen 12
pH 9.19
Time 1300

Water Level -1¼"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 31.7
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----1 SLIGHT

East-

Water Temp 24.1
Oxygen 12
pH 9.20
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

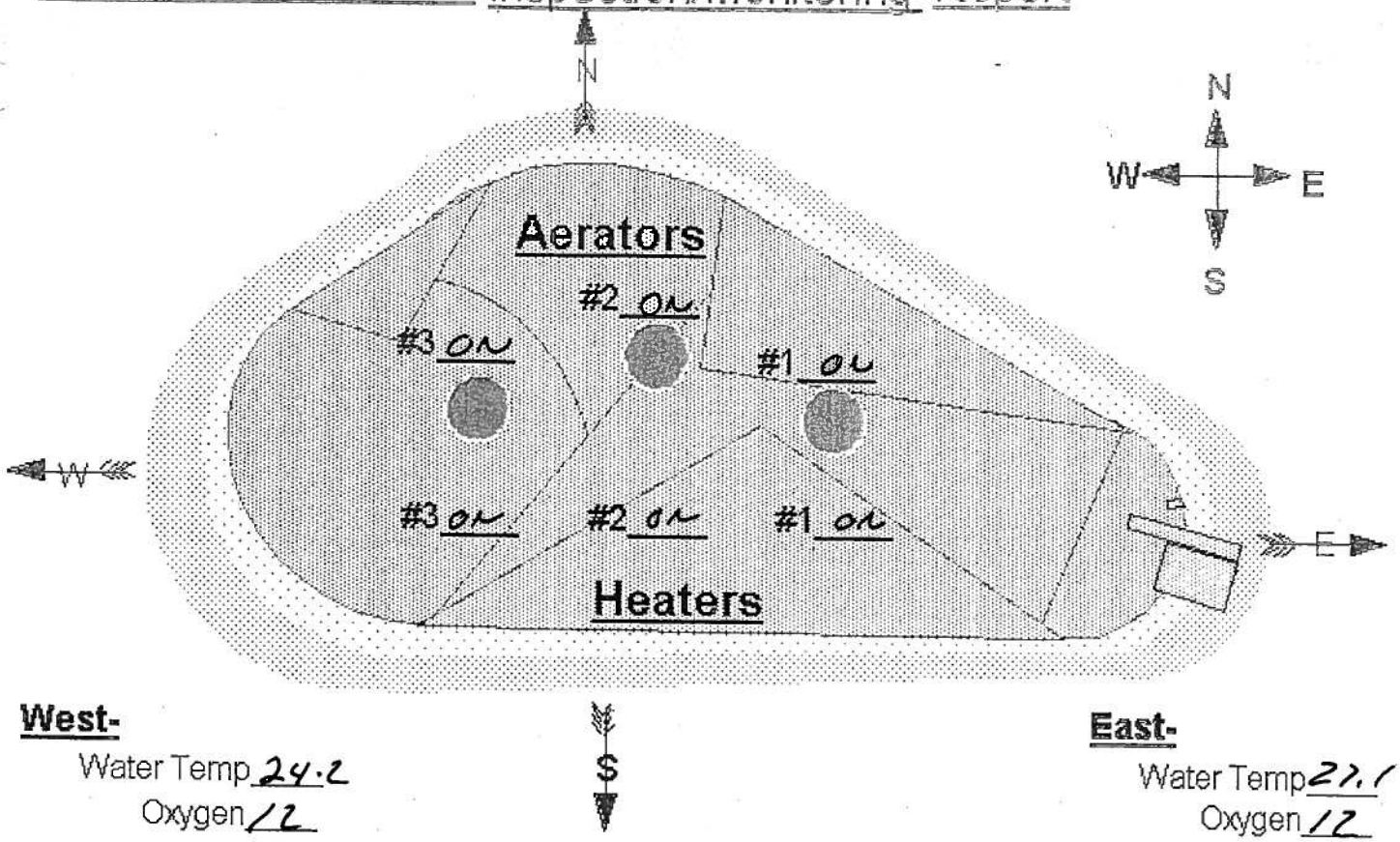
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 9-1-11

Supervisor Review _____ Date 9-26-11

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 24.2
Oxygen 12
pH 9.09
Time 1300

Water Level -2"
Water Meter-Stop 2028279
Water Meter-Start 2028279

Water Added 0
Air Temp. 36.1
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----1 SLIGHT

East-

Water Temp 27.1
Oxygen 12
pH 9.11
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

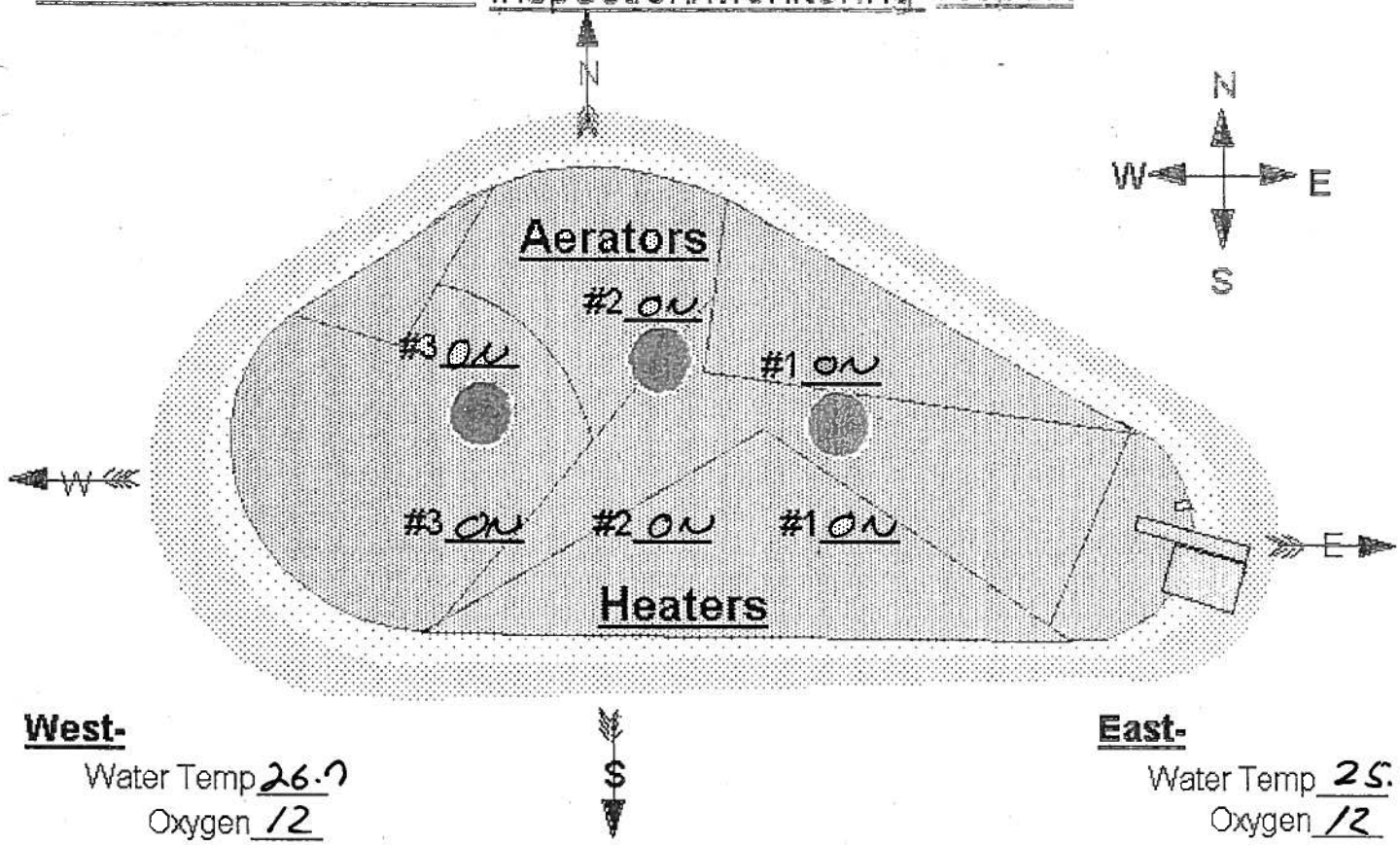
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 9-8-11

Supervisor Review _____ Date 9-26-11

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.7
Oxygen 12
pH 9.08
Time 1300

Water Level -2"
Water Meter-Stop 7028275
Water Meter-Start 7028274

Water Added 0
Air Temp. 33.3
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----1 SLIGHT

East-

Water Temp 25.8
Oxygen 12
pH 9.07
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

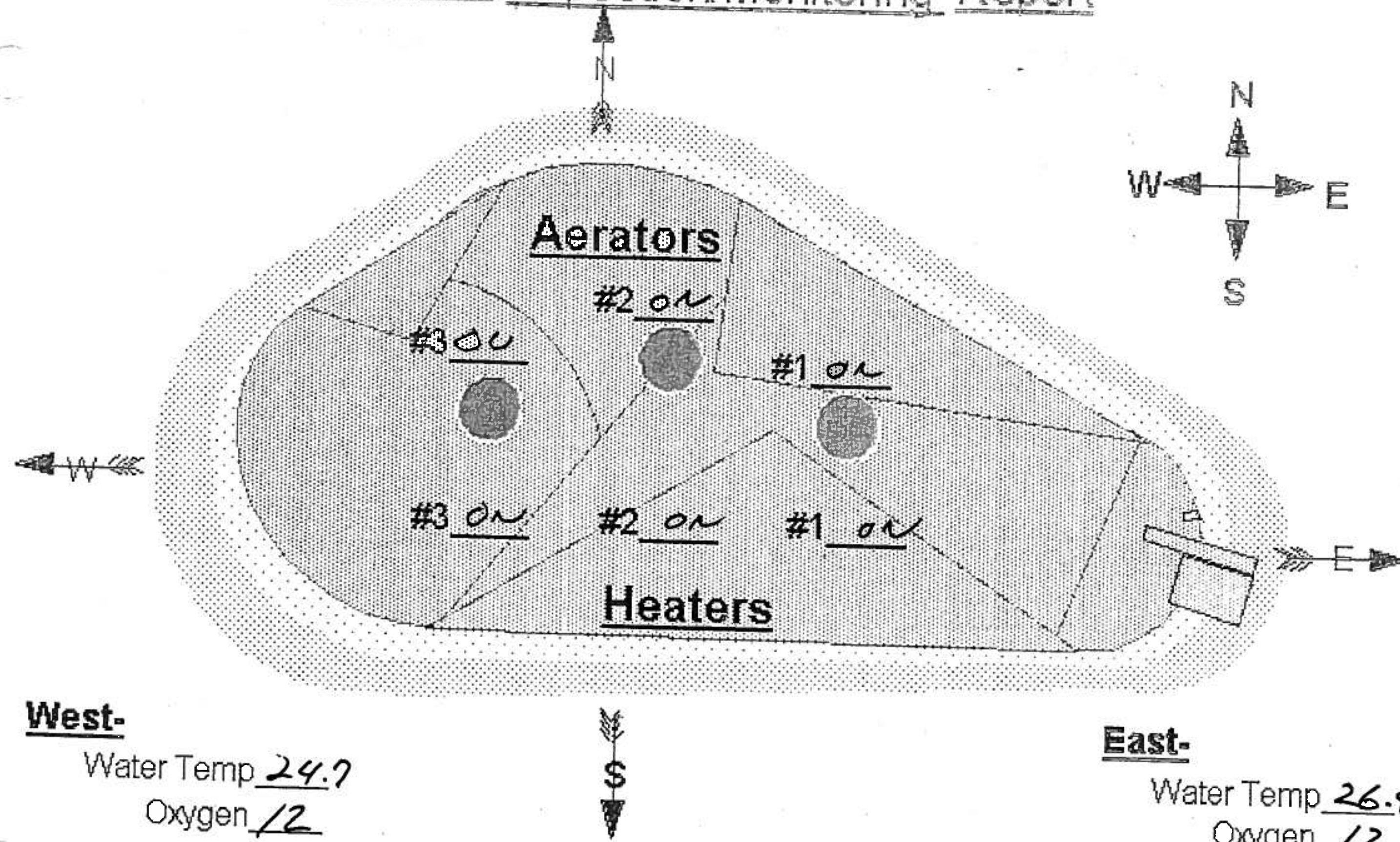
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 9-12-11

Supervisor Review Don Arnold Date 9-26-11

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 24.7
Oxygen 12
pH 8.74
Time 1300

Water Level 73/4"
Water Meter-Stop 7028279
Water Meter-Start 7028275

Water Added Ø
Air Temp. 28.9
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 26.8
Oxygen 12
pH 8.80
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Same
Animal Burrows Same
Weed Control Same

Percolation Pond

Water Level- NOT FLOWING
Erosion Same
Animal Burrows Same
Weed Control Same

[signature]
Inspected by

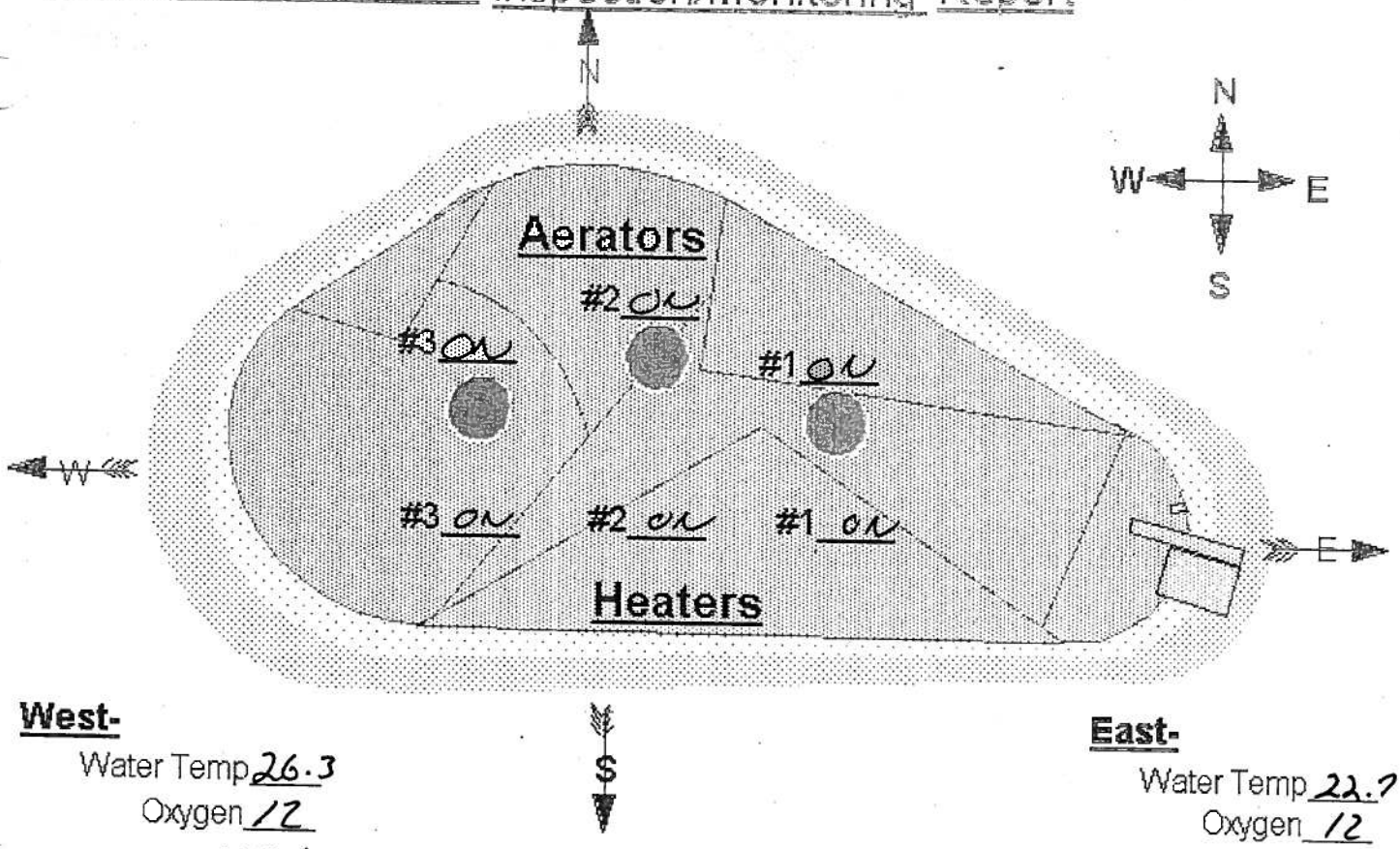
9-15-11
Date

Dave Armour [signature]
Supervisor Review

9-26-11
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.3
Oxygen 12
pH 9.64
Time 1300

Water Level 2½"
Water Meter-Stop 7028279
Water Meter-Start 7028275

Water Added 0
Air Temp. 33.9
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----/ SLIGHT

East-

Water Temp 22.7
Oxygen 12
pH 9.53
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

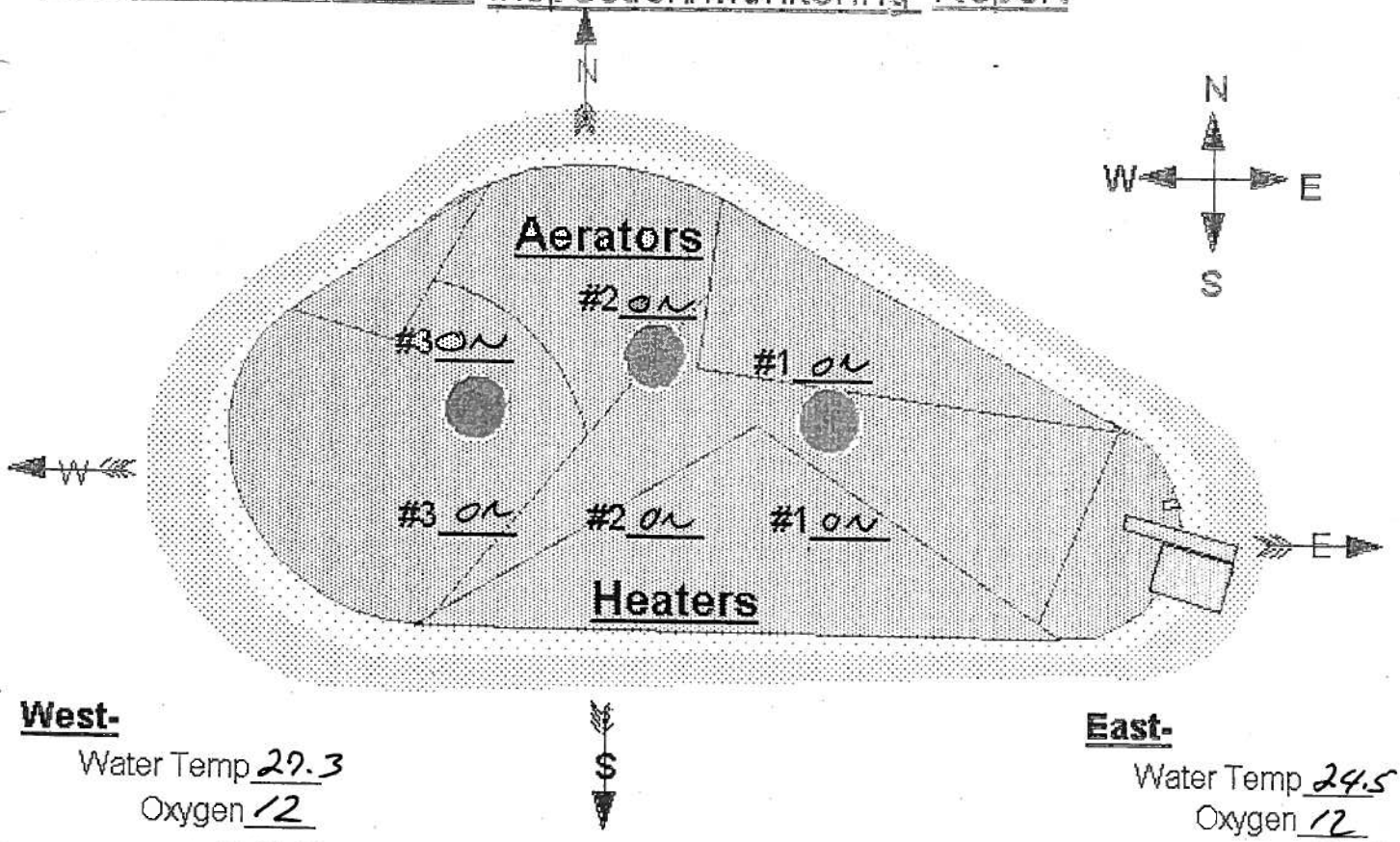
Water Level- NOT ACCESSIBLE
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 9-19-11

Supervisor Review Dave Arnold Date 9-26-11

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 29.3
Oxygen 12
pH 9.64
Time 1300

Water Level -2½"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 34.4
Wind Direction E-W

East-

Water Temp 24.5
Oxygen 12
pH 9.55
Time 1330

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----I SLIGHT

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

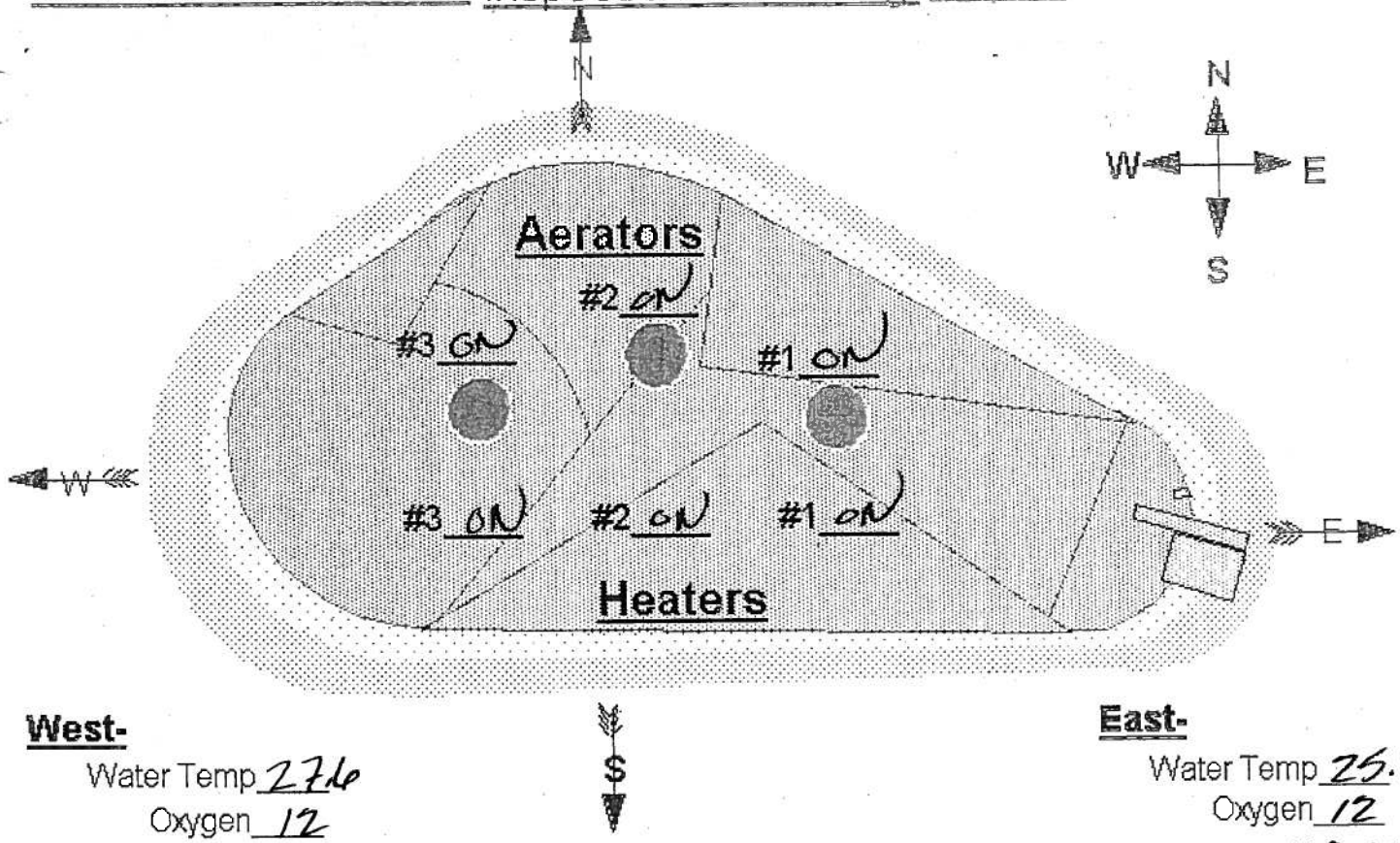
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ 9-22-11 Date

Supervisor Review _____ 9-26-11 Date

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 27.6
Oxygen 12
pH 9.60
Time 1300

Water Level -2 3/4
Water Meter-Stop 7024279
Water Meter-Start 7024279

Water Added -0
Air Temp. 28.9
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- slight

East-

Water Temp 25.2
Oxygen 12
pH 9.62
Time 1300

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Good
Animal Burrows Good
Weed Control Good

Percolation Pond

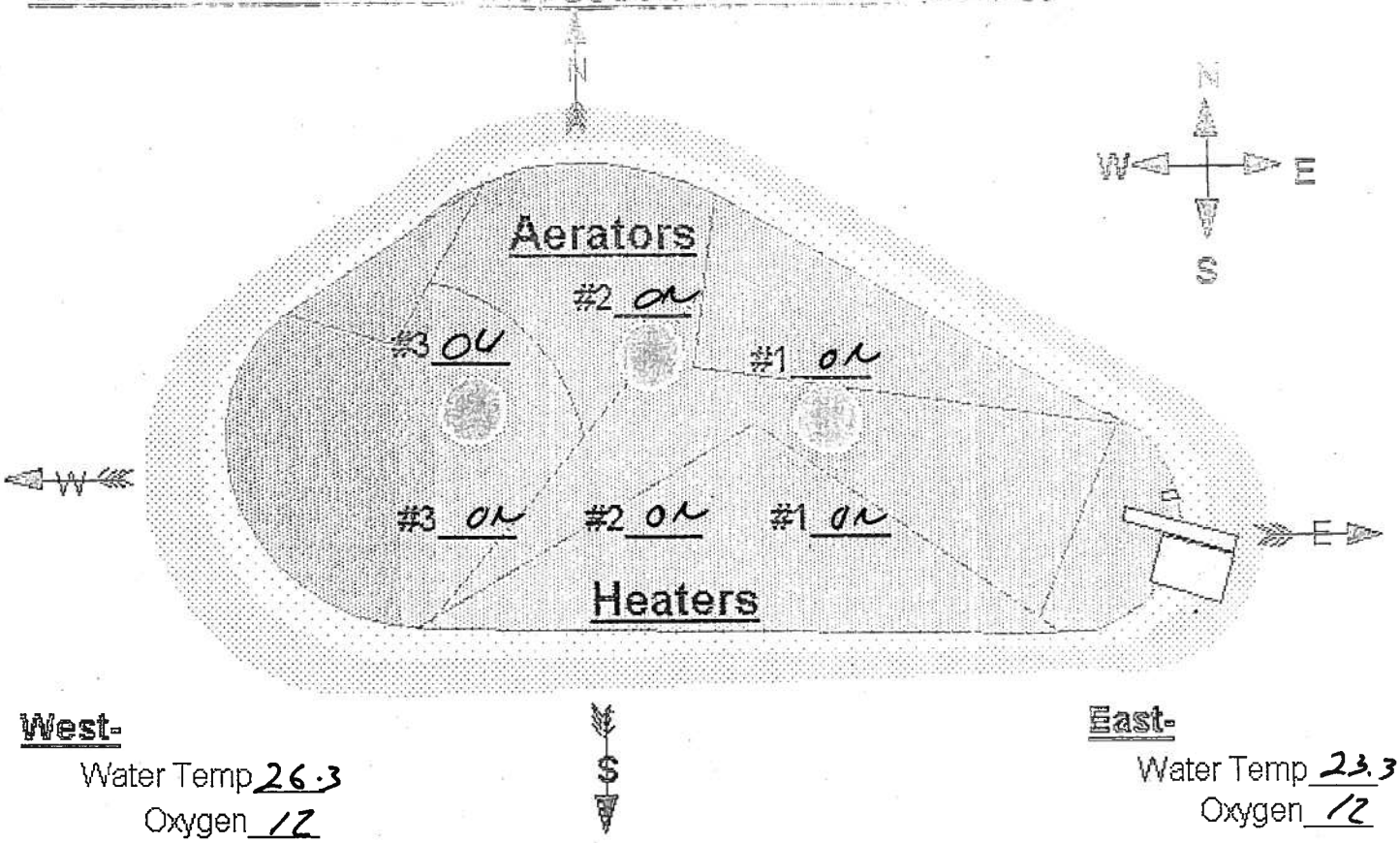
Water Level- Not flowing.
Erosion Good
Animal Burrows Good
Weed Control Good

Inspected by Dave Amrozo 9-26-11
Date

Supervisor Review Dave Amrozo 9-26-11
Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.3
Oxygen 12
pH 9.62
Time 1300

Water Level -1¼"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 35.0
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 23.3
Oxygen 12
pH 9.55
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

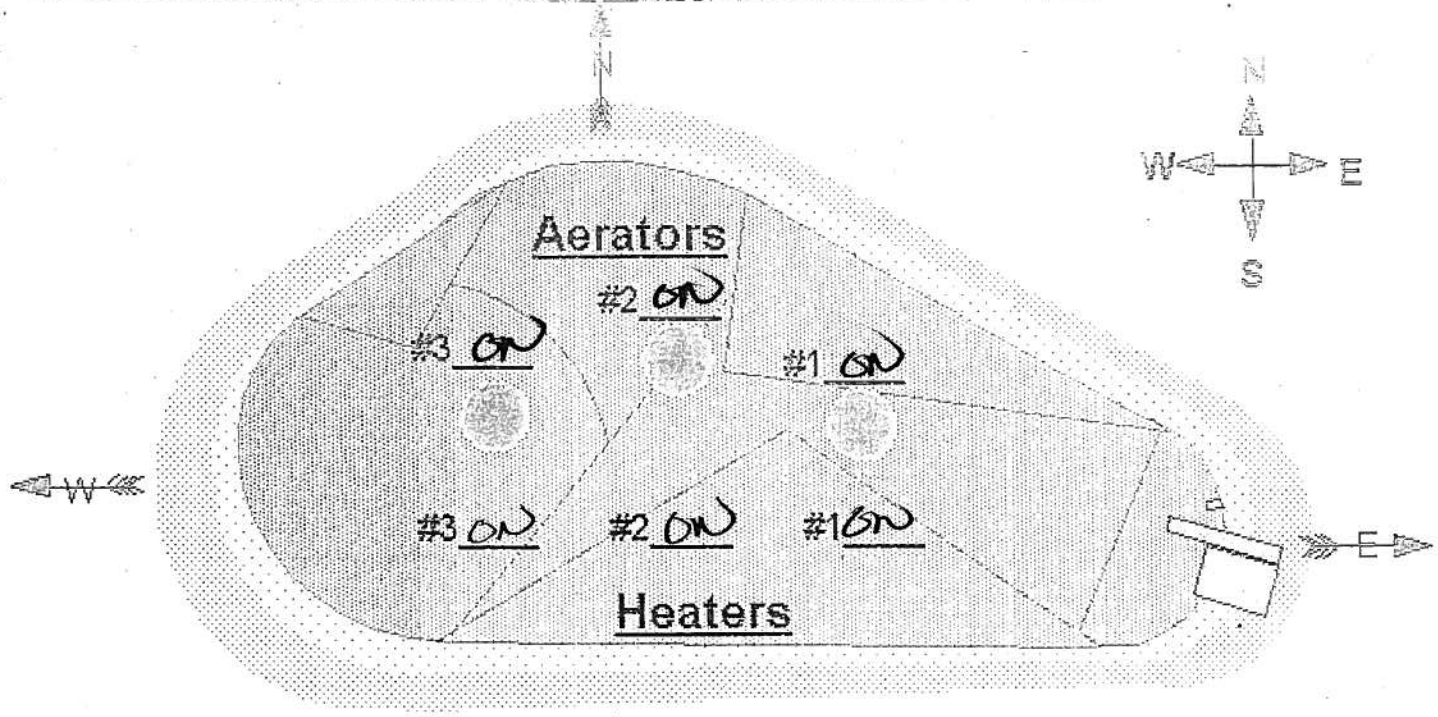
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ 9-29-11 Date

Supervisor Review _____ 9-29-11 Date

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 18.2
Oxygen 12
pH 9.41
Time 1300

Water Level 6
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 33.3
Wind Direction E-W

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR----/_____

East-

Water Temp 17.4
Oxygen 12
pH 9.44
Time 1300

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Som
Animal Burrows Som
Weed Control Som

Percolation Pond

Water Level- No flow
Erosion Som
Animal Burrows Som
Weed Control Som

Dave Arnold
Inspected by

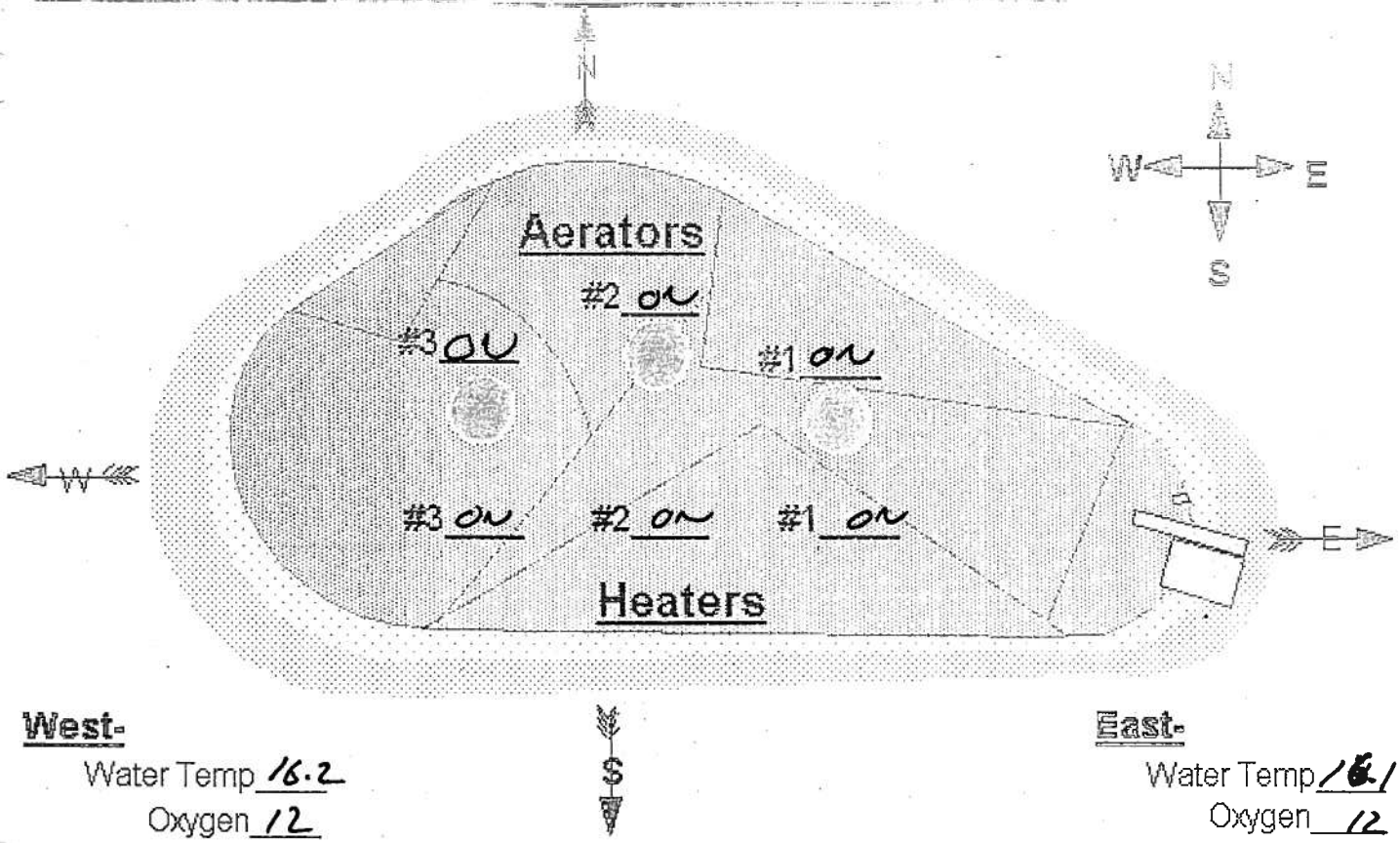
10-3-11
Date

Dave Arnold
Supervisor Review

10-3-11
Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 16.2
Oxygen 12
pH 9.40
Time 07:10

Water Level 12"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 12.8
Wind Direction W-E

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- SLIGHT

East-

Water Temp 16.1
Oxygen 12
pH 9.44
Time 07:40

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion some
Animal Burrows some
Weed Control some

Percolation Pond

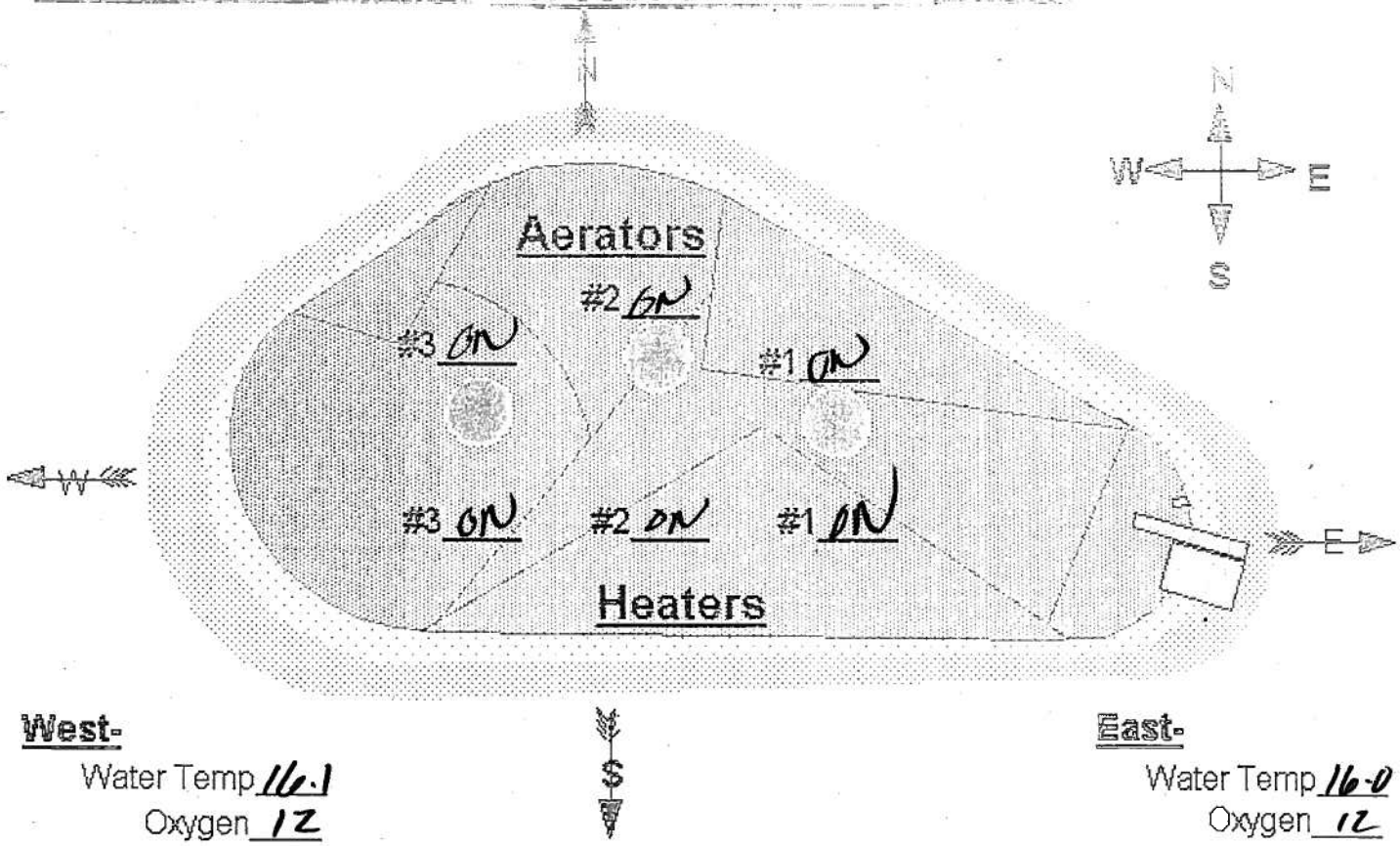
Water Level- NOT FLOWING
Erosion some
Animal Burrows some
Weed Control some

Inspected By [signature] 10-6-11 Date

Supervisor Review [signature] 10-6-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 16.1
Oxygen 12
pH 9.38
Time 1:30

Water Level Ø
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 13.3
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- ____

East-

Water Temp 16.0
Oxygen 12
pH 9.40
Time 1330

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion ____
Animal Burrows ____
Weed Control ____

Percolation Pond

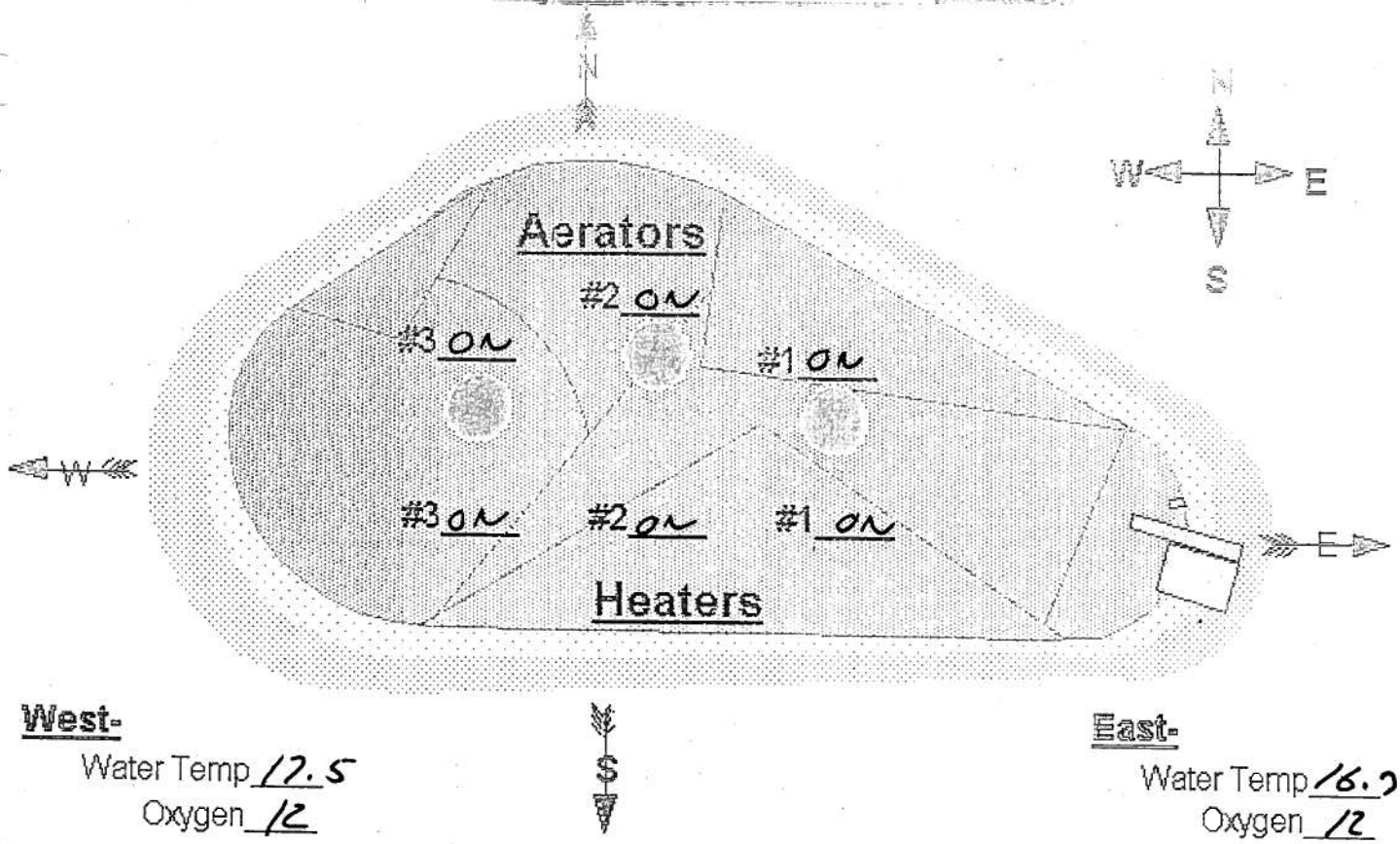
Water Level- Not Flowing
Erosion Sum
Animal Burrows Sum
Weed Control Sum

Inspected by Dave Amerio 10-9-11
Date

Supervisor Review Dave Amerio 10-9-11
Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 17.5
Oxygen 12
pH 9.45
Time 0600

Water Level -1/2"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 10.0
Wind Direction W-E

East-

Water Temp 16.7
Oxygen 12
pH 9.42
Time 0630

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

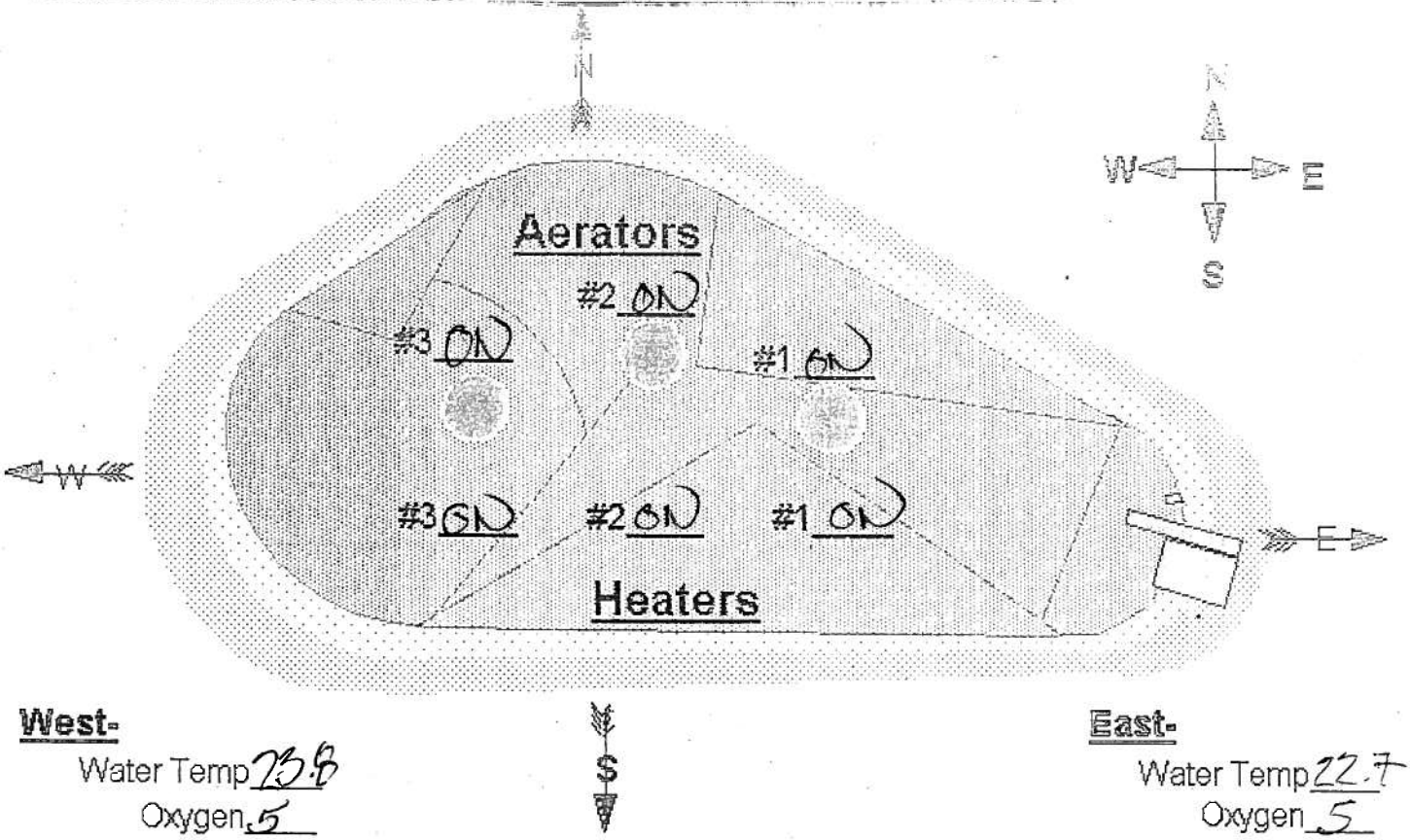
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ 10-13-11 Date

Supervisor Review _____ 10-17-11 Date

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 23.8
Oxygen 5
pH 8.68
Time 1300

Water Level 1/2
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 29.4
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR--- NONE

East-

Water Temp 22.7
Oxygen 5
pH 8.39
Time 1300

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

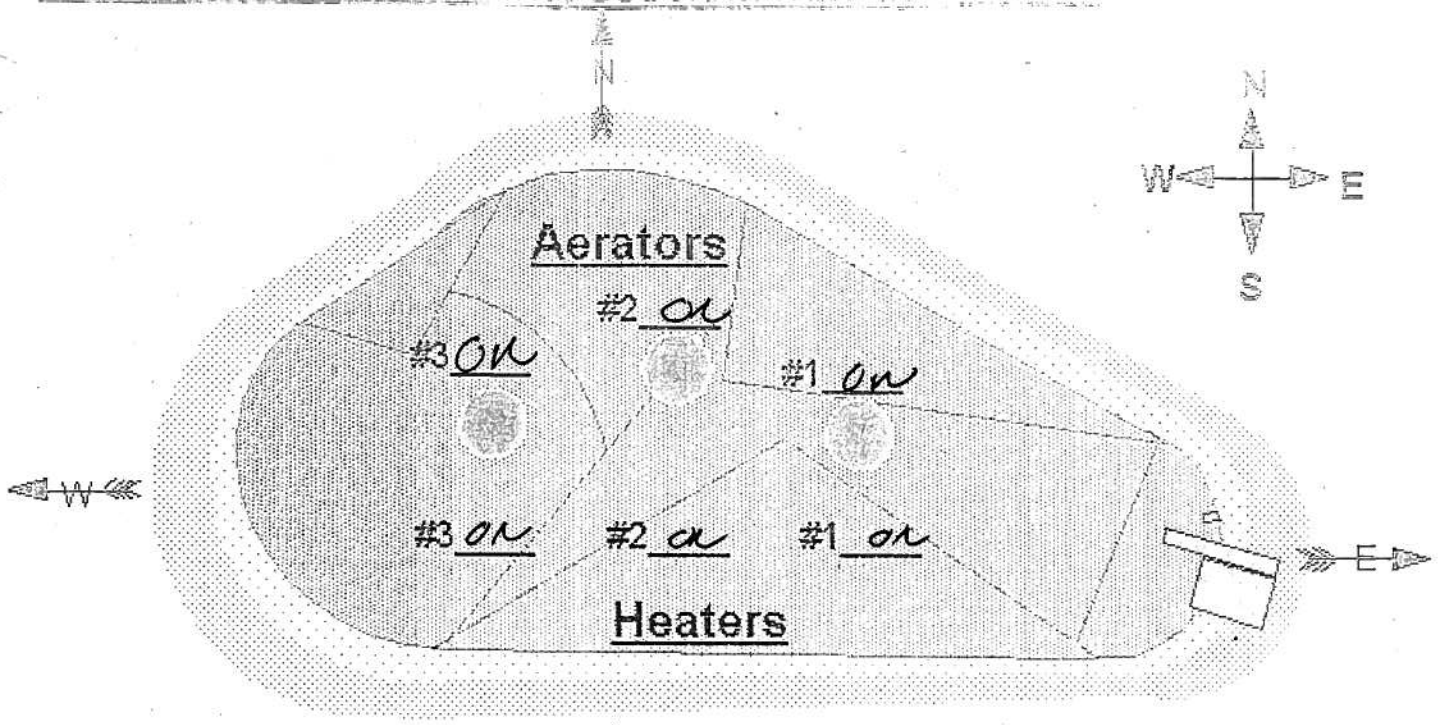
Water Level- 100 Flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Inspected by Dave Amaro 10-17-11
Date

Supervisor Review Dave Amaro 10-17-11
Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 17.3
Oxygen 12
pH 8.56
Time 0700

Water Level ~1/2"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 9.4
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 16.1
Oxygen 12
pH 8.41
Time 0730

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

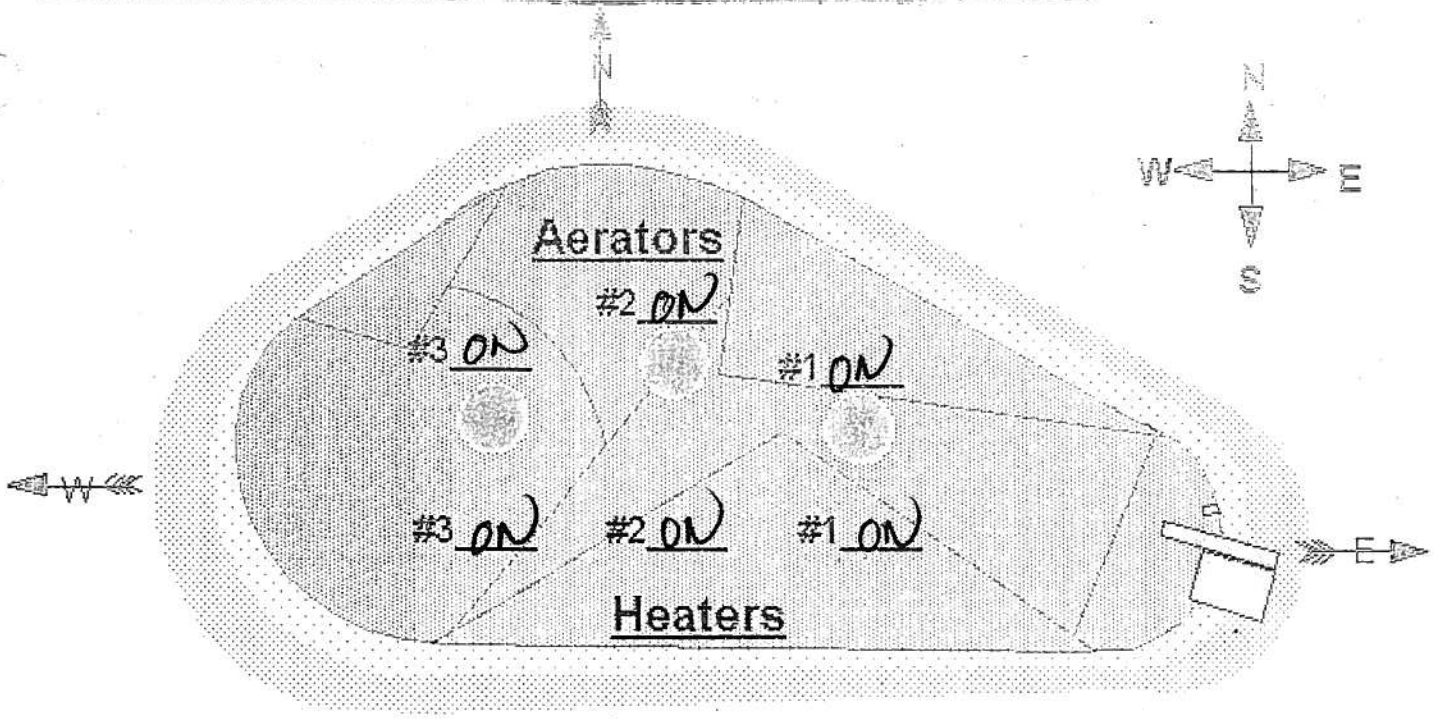
Water Level- NOT FLOWED
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ Date 10-20-11

Supervisor Review _____ Date 10-24-11

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 21.6
Oxygen .5
pH 8.55
Time 1300

Water Level 2"
Water Meter-Stop 7028279
Water Meter-Start 7026279

Water Added 0
Air Temp. 27B
Wind Direction E-W

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- NONE

East-

Water Temp 18.6
Oxygen .5
pH 8.57
Time 1300

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

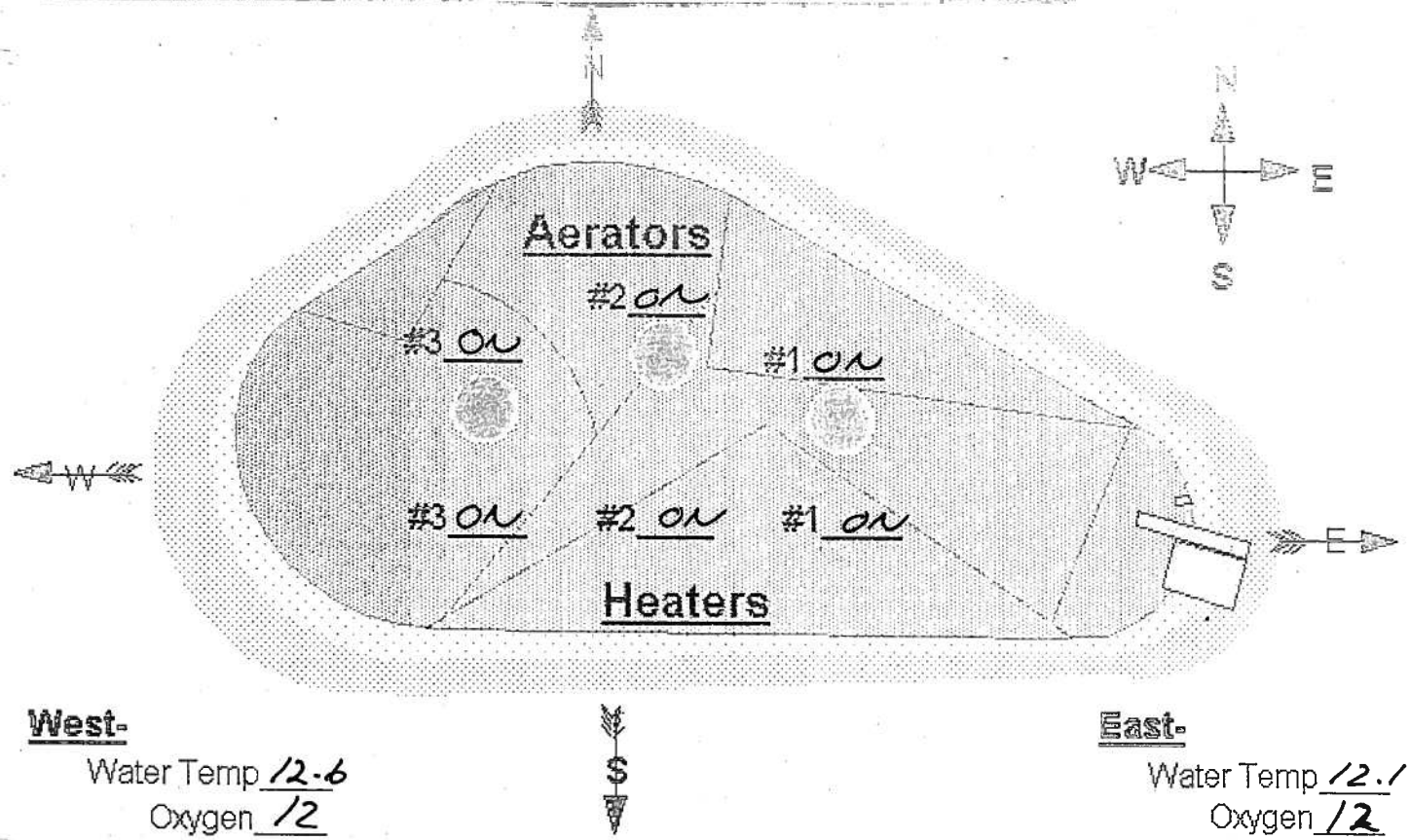
Water Level- Not flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Inspected by [signature] 10-24-11 Date

Supervisor Review [signature] 10-24-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 12.6
Oxygen 12
pH 8.58
Time 0700

Water Level + 1 3/4"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 4.4
Wind Direction E-W

East-

Water Temp 12.1
Oxygen 12
pH 8.60
Time 0730

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----1 SLIGHT

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

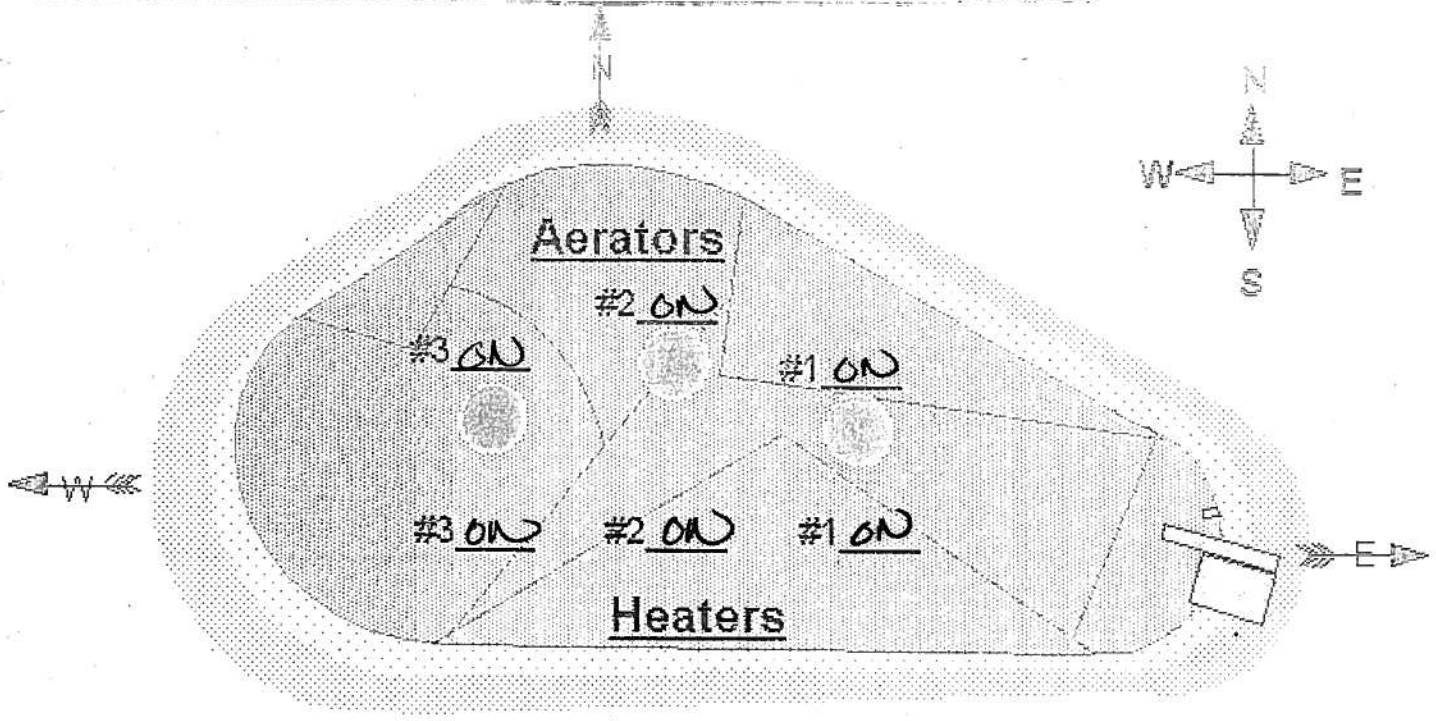
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ 10-27-11 Date

Supervisor Review _____ 10-27-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 22.8
Oxygen 12
pH 8.59
Time 1300

Water Level +13/4
Water Meter-Stop 7028279
Water Meter-Start 7026279

Water Added 0
Air Temp. 25.6
Wind Direction E to W

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- NONE

East-

Water Temp 19.1
Oxygen 12
pH 8.62
Time 1300

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Som
Animal Burrows Som
Weed Control Some

Percolation Pond

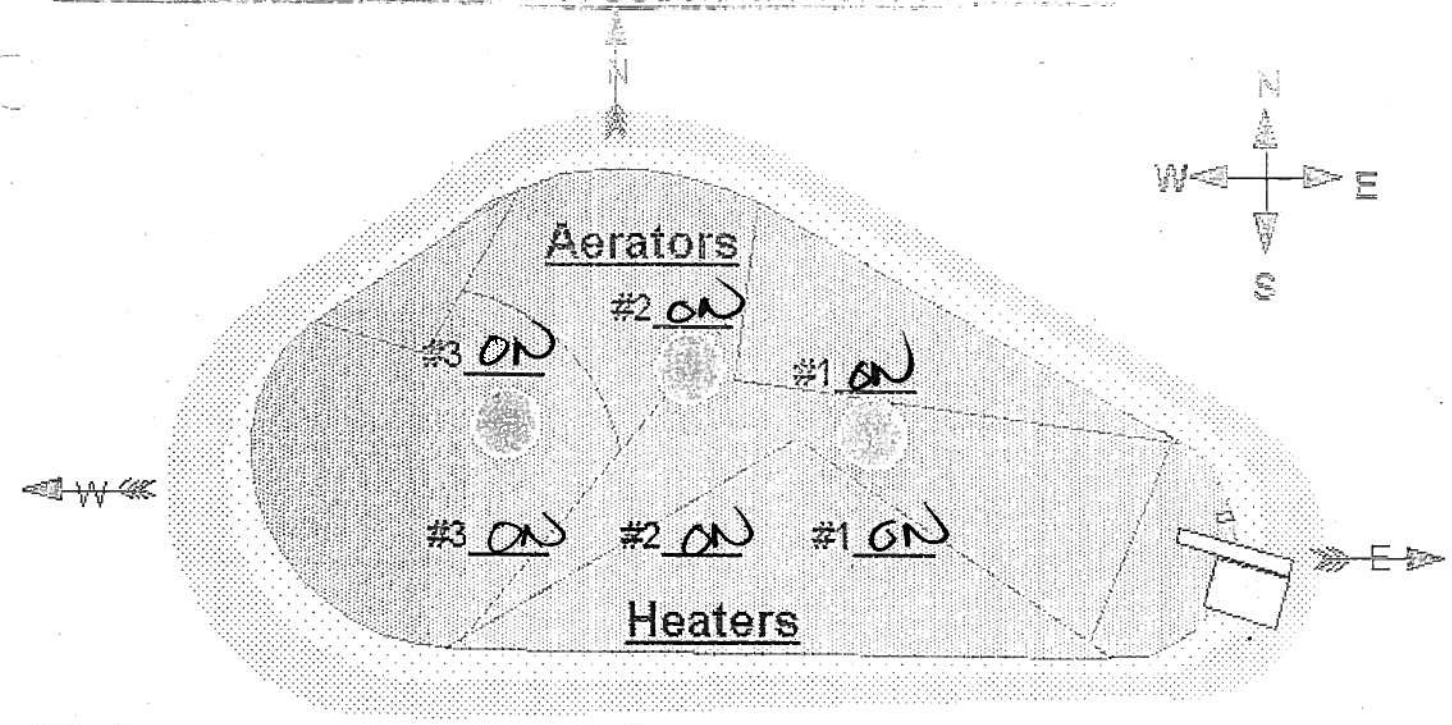
Water Level- Not Planning
Erosion Som
Animal Burrows Som
Weed Control Som

Inspected by Dave Hannon 10-27-2011 Date

Supervisor Review Dave Hannon 10-27-2011 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 17.4
Oxygen 12
pH 8.56
Time 1300

Water Level +1 3/4.
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 26.7
Wind Direction E to W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- slight

East-

Water Temp 16.0
Oxygen 12
pH 8.70
Time 1500

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

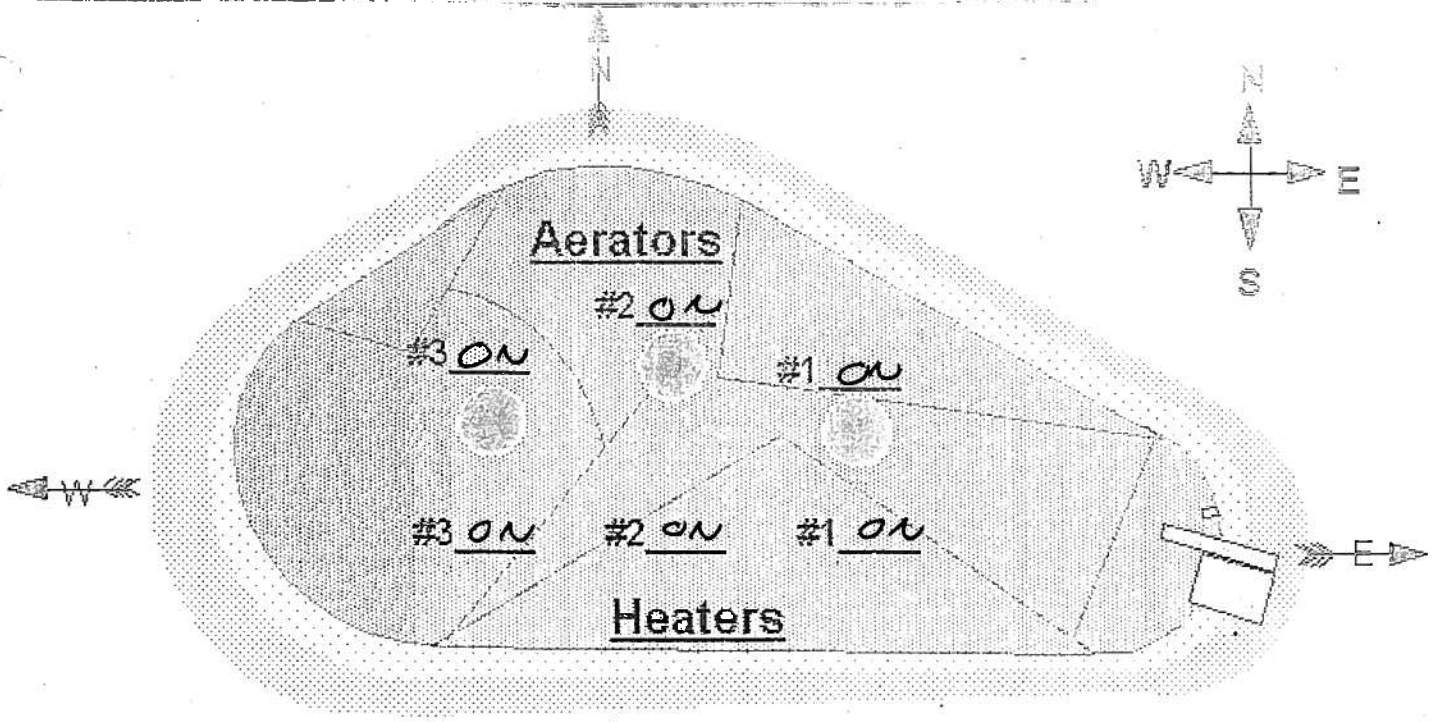
Water Level- Not Accessible
Erosion Some
Animal Burrows Some
Weed Control Some

Inspected by: Dave Arnold 10-31-11
Date

Supervisor Review: Dave Arnold 10-31-11
Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 12.2
Oxygen 12
pH 8.57
Time 07:00

Water Level +3"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0"
Air Temp. 8.9
Wind Direction None

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- SLIGHT

East-

Water Temp 11.3
Oxygen 12
pH 8.55
Time 07:30

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

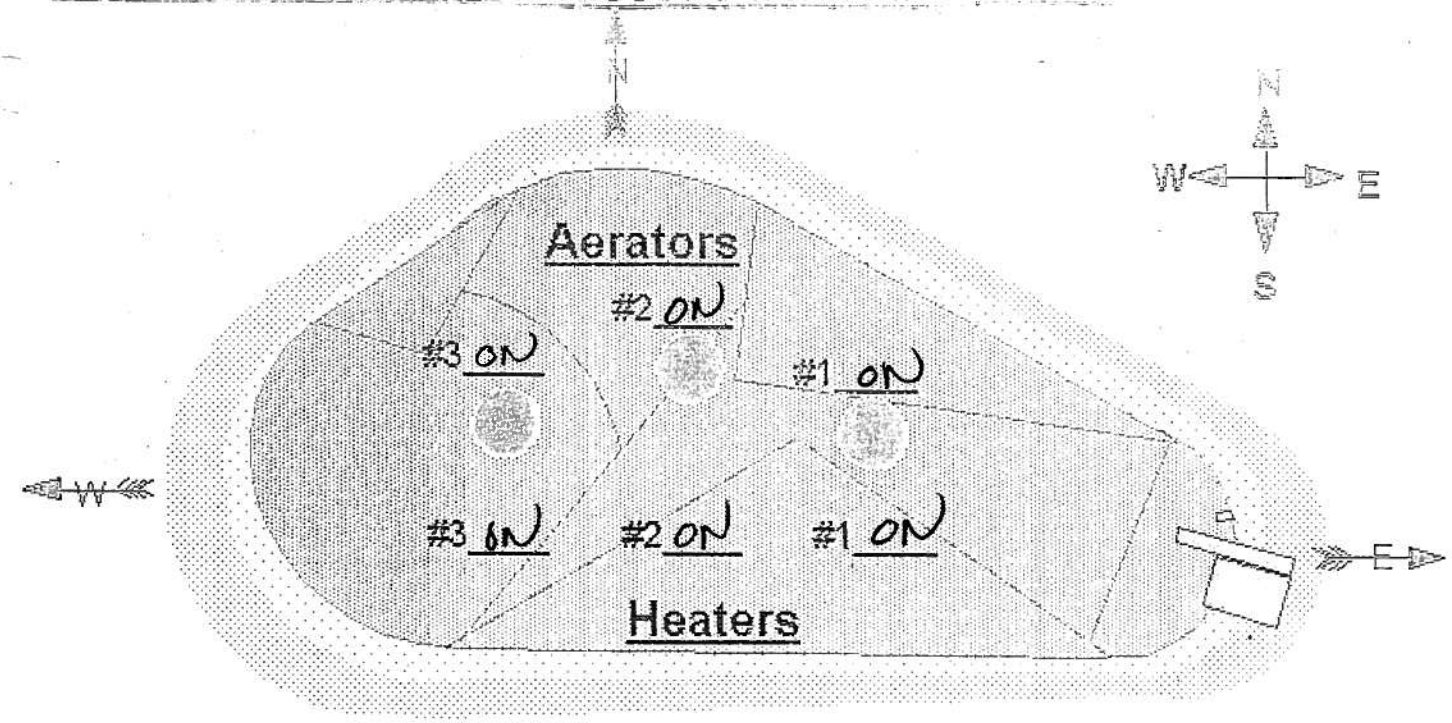
Water Level- NOT FLOWING
Erosion Some
Animal Burrows Some
Weed Control Some

Inspected by _____ Date 11-3-11

Supervisor Review Dave Amundo Date 11-3-11

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 11.7
Oxygen 12
pH 8.54
Time 1330

Water Level +3"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0"
Air Temp. 15.6
Wind Direction E to W

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- slight

East-

Water Temp 11.3
Oxygen 12
pH 8.52
Time 1330

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Sam
Animal Burrows Sam
Weed Control Sam

Percolation Pond

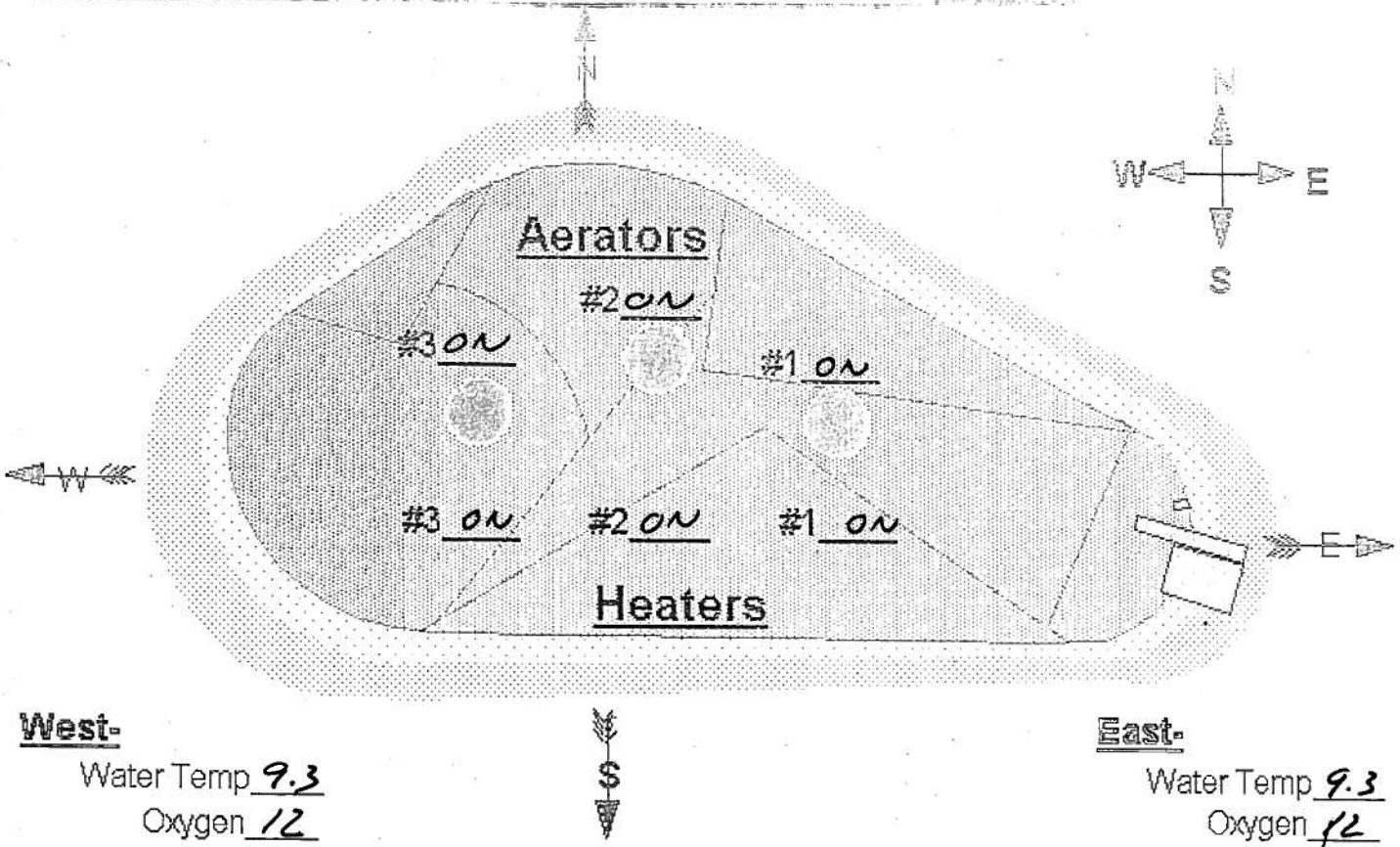
Water Level- Not flowing
Erosion Sam
Animal Burrows Sam
Weed Control Sam

Dave Amrozo — Inspected by — 11-7-11 — Date

Dave Amrozo — Supervisor Review — 11-7-11 — Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 9.3
Oxygen 12
pH 8.50
Time 0700

Water Level +3"
Water Meter-Stop 702 8279
Water Meter-Start 702 8279

Water Added 0
Air Temp. 41
Wind Direction NONE

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR----/ SLIGHT

East-

Water Temp 9.3
Oxygen 12
pH 8.51
Time 0730

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

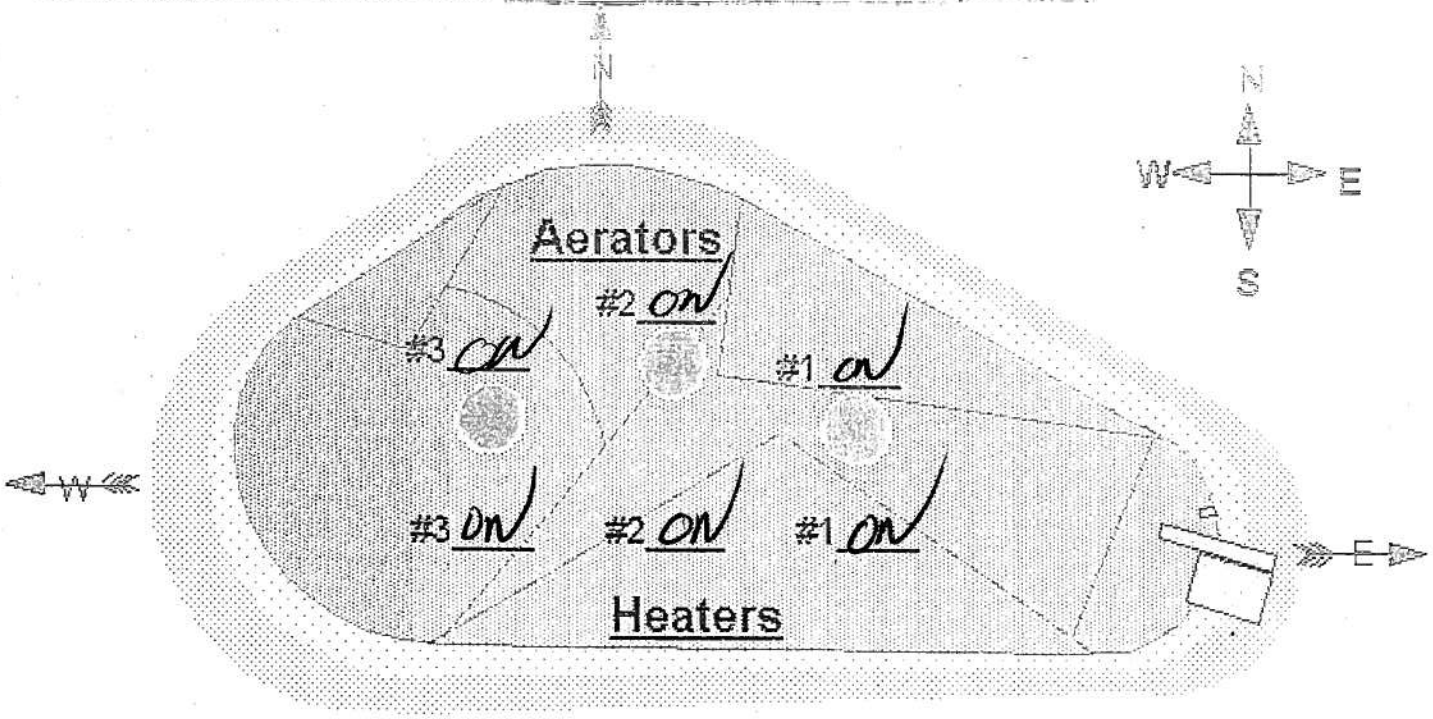
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ 11-10-11 Date

Supervisor Review _____ 11-10-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 13.7
Oxygen 12
pH 8.25
Time 12:00

Water Level +3
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 20.0
Wind Direction E to W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- None

East-

Water Temp 12.4
Oxygen 12
pH 8.29
Time 13:00

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Good
Animal Burrows Good
Weed Control Good

Percolation Pond

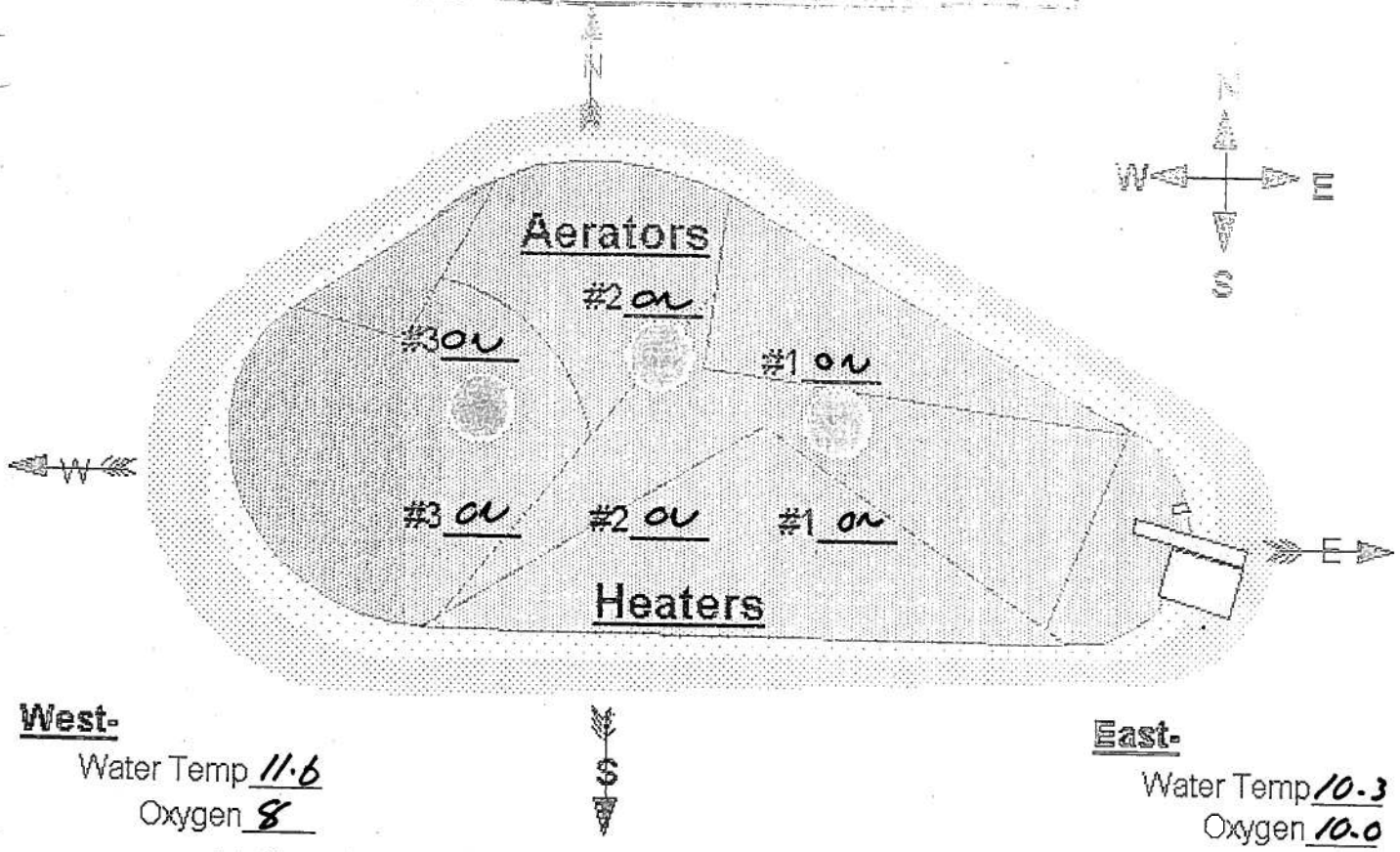
Water Level- Not Flowing
Erosion Good
Animal Burrows Good
Weed Control Good

Dave Arnold — Inspected by — 11-14-11 Date

Dave Arnold — Supervisor Review — 11-14-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 11.6
Oxygen 8
pH 8.33
Time 0700

Water Level +4"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 3.3
Wind Direction NONE

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----SLIGHT

East-

Water Temp 10.3
Oxygen 10.0
pH 8.50
Time 0730

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

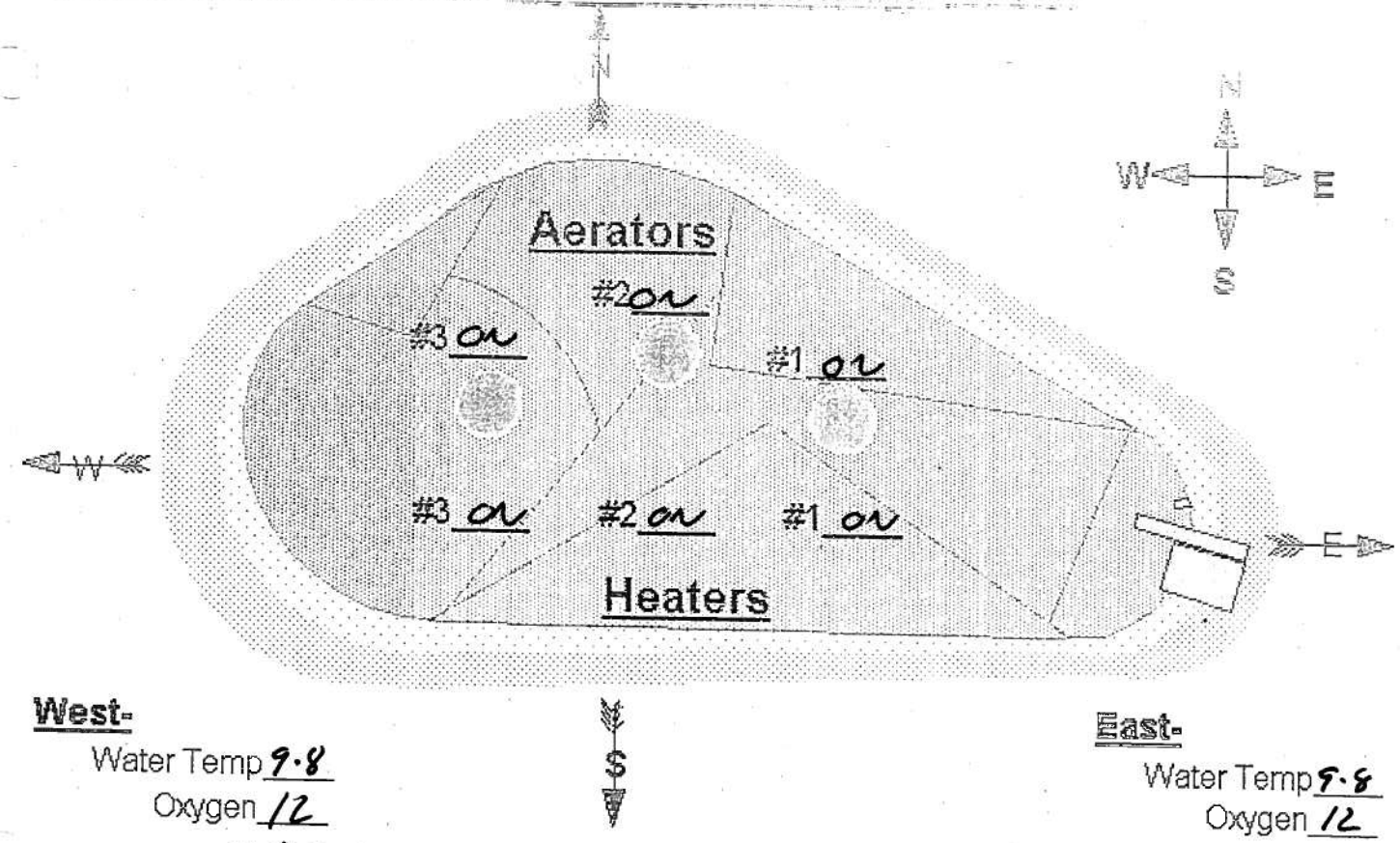
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ 11-27-11 Date

Supervisor Review _____ 11-28-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 9.8
Oxygen 12
pH 8.44
Time 07:00

Water Level +3½"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 4.4
Wind Direction none

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- slight

East-

Water Temp 9.8
Oxygen 12
pH 8.52
Time 07:30

Common Bacterium-Per Drop ____
Activated Sludge •
Glass Tube Test ✓

Erosion some
Animal Burrows some
Weed Control some

Percolation Pond

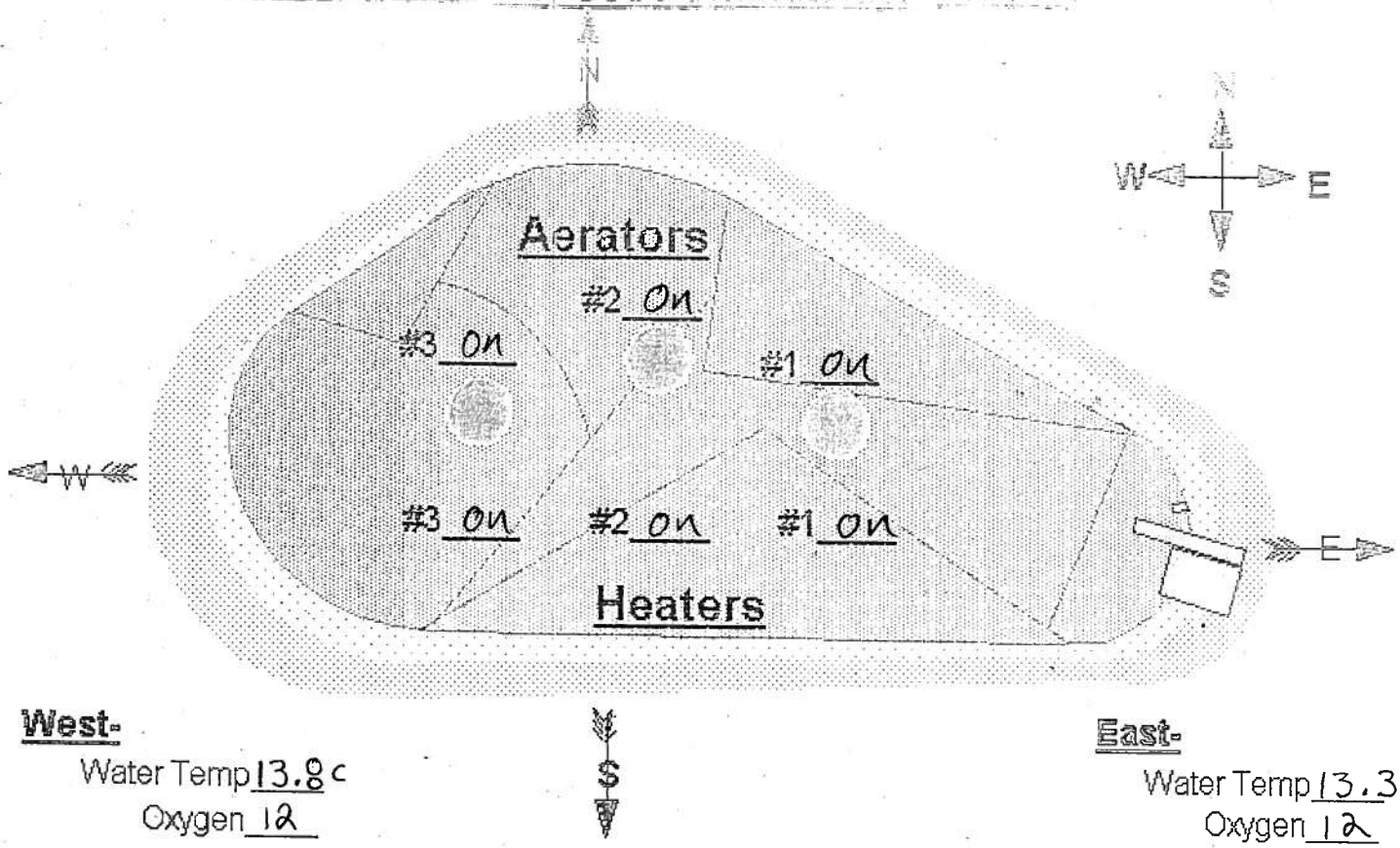
Water Level- not flowing
Erosion some
Animal Burrows some
Weed Control some

Inspected by _____ 11-24-11 Date

Supervisor Review _____ 11-28-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 13.8 c
Oxygen 12
pH 8.25
Time 13:30

East-

Water Temp 13.3 c
Oxygen 12
pH 8.30
Time 13:30

Water Level ±3
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added ~~0~~
Air Temp. 17.9 c
Wind Direction East to west

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- Slight

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

Water Level- Not Flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Dave Rockstead
Inspected by

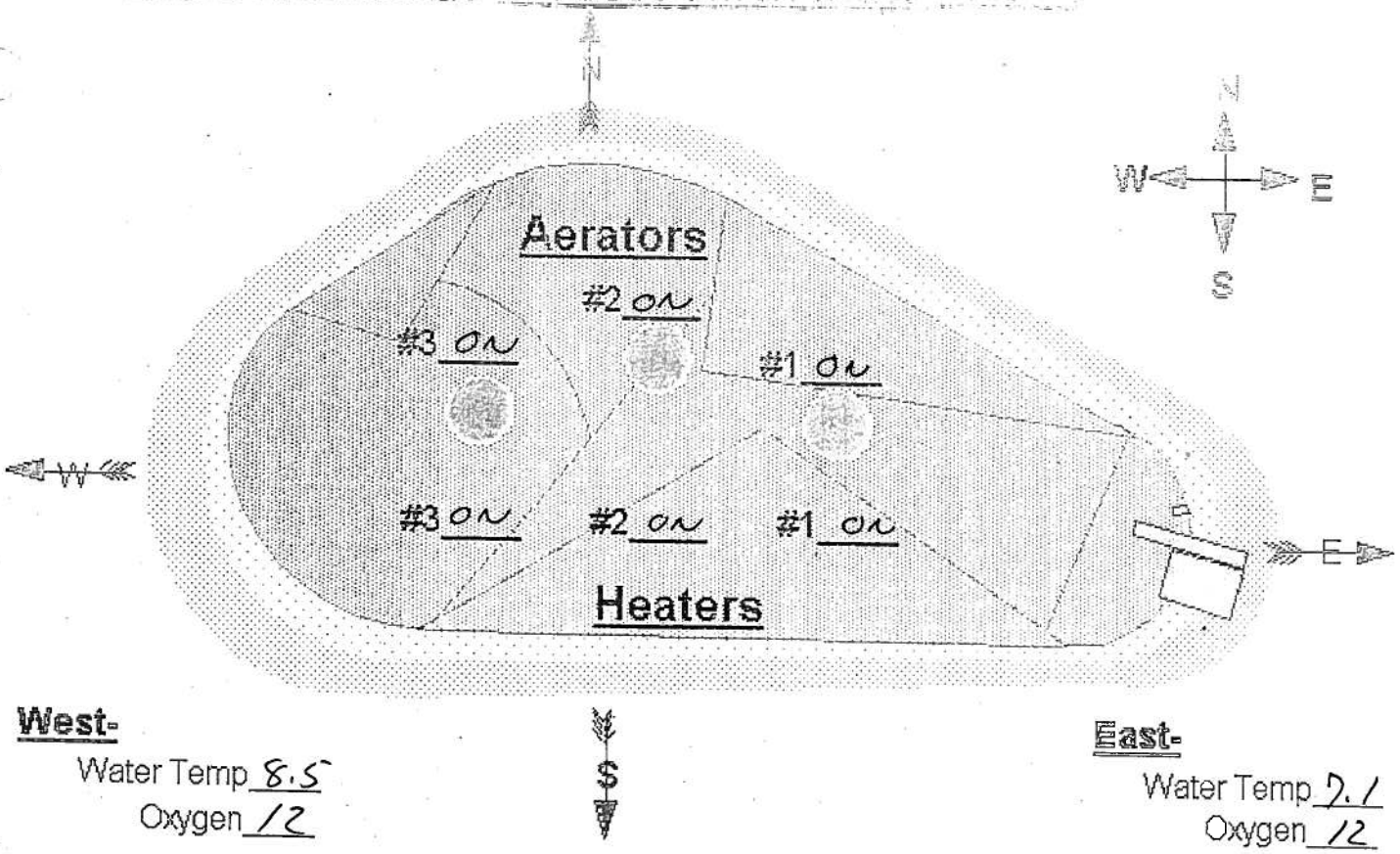
11-28-11
Date

Supervisor Review

11-28-11
Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 8.5
Oxygen 12
pH 8.35
Time 0600

East-

Water Temp 7.1
Oxygen 12
pH 8.42
Time 0630

Water Level +4"
Water Meter-Stop 7028219
Water Meter-Start 7028219

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Water Added 0
Air Temp. 7.8
Wind Direction W-E

ODOR----1 SLIGHT

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

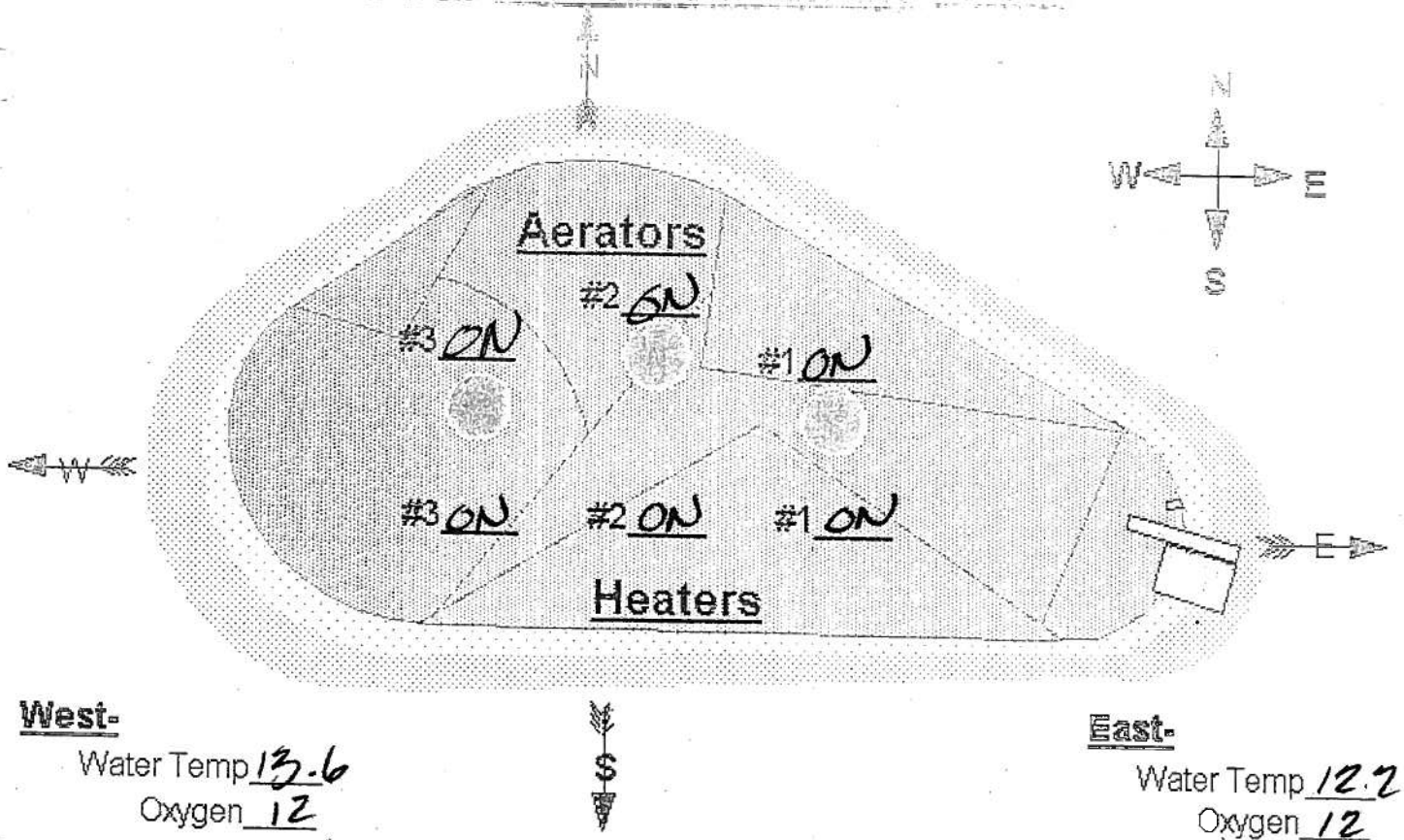
Water Level-NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ 12-1-11 Date

Supervisor Review DAVE ARNOLD 12-1-11 Date

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 13.6
Oxygen 12
pH 8.23
Time 1300

East-

Water Temp 12.2
Oxygen 12
pH 8.29
Time 1300

Water Level +4
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 15.6
Wind Direction E to W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- slight

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Sand
Animal Burrows Sand
Weed Control Sand

Percolation Pond

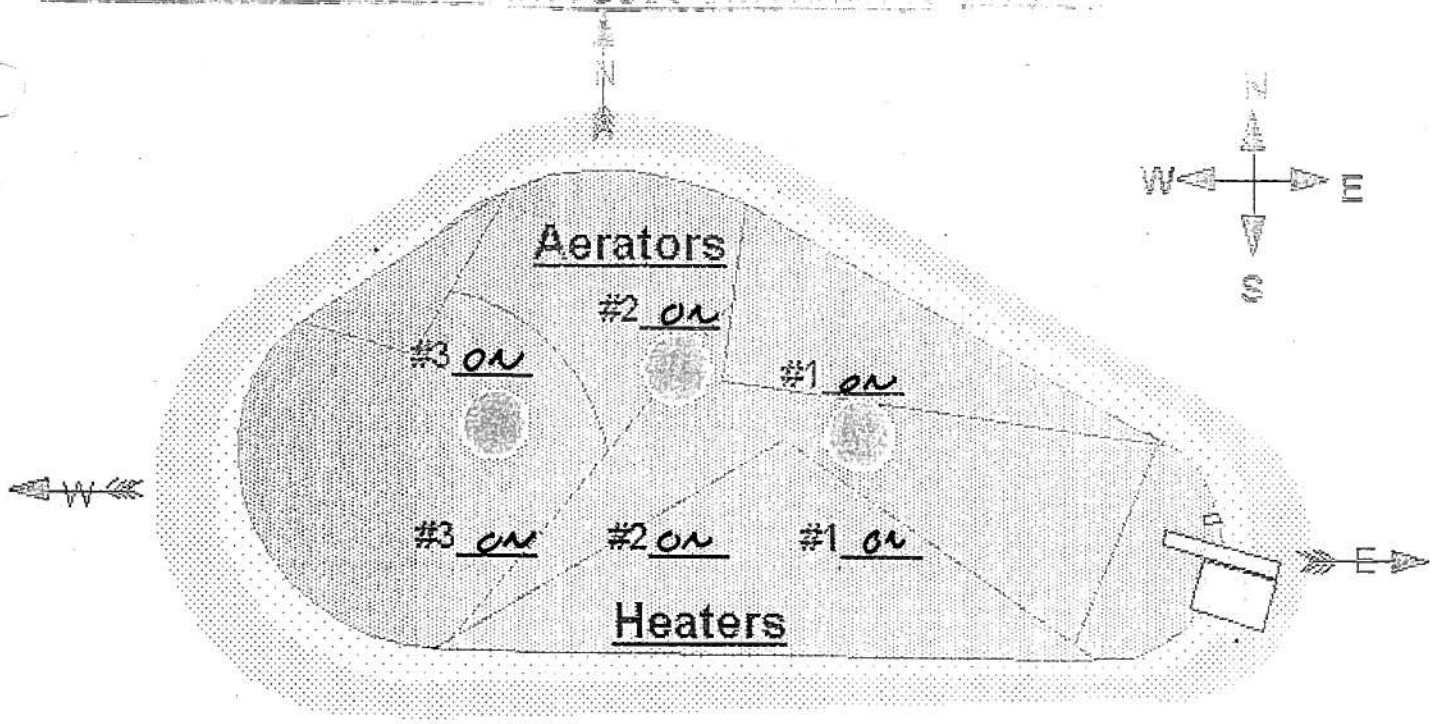
Water Level- Not flowing
Erosion Sand
Animal Burrows Sand
Weed Control Sand

Inspected by — 12-5-11 Date

Supervisor Review — 12-5-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 4.1
Oxygen 12
pH 8.50
Time 0700

Water Level +3½"
Water Meter-Stop 7028209
Water Meter-Start 7028209

Water Added 0
Air Temp. 0
Wind Direction NONE

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----/ SLIGHT

East-

Water Temp 4.4
Oxygen 12
pH 8.44
Time 0730

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

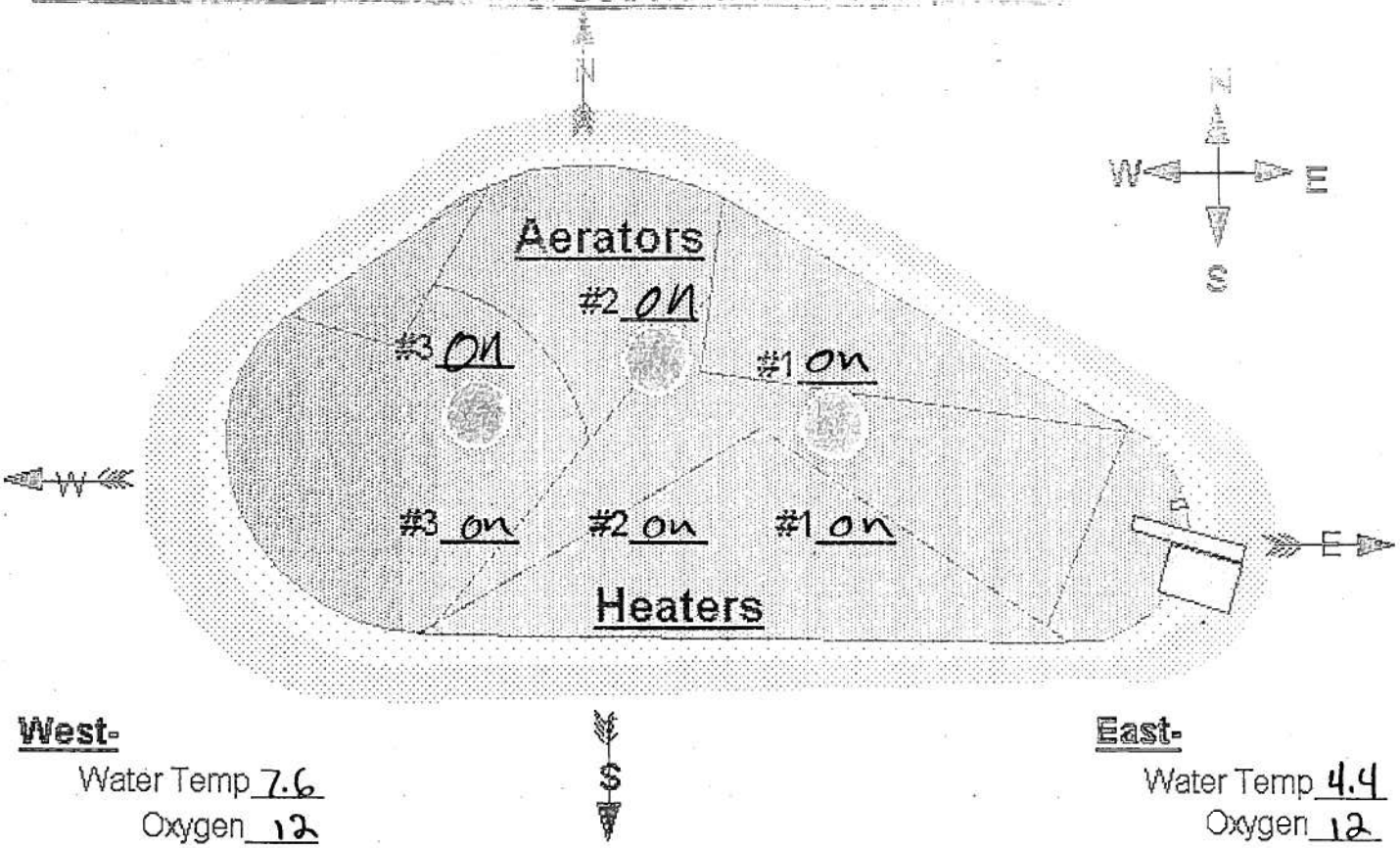
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by _____ 12-8-11 Date

Supervisor Review _____ 12-8-2011 Date

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 7.6
Oxygen 12
pH 8.52
Time 11:30

East-

Water Temp 4.4
Oxygen 12
pH 8.55
Time 11:35

Water Level +4
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 9.0
Wind Direction None

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- Slight

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

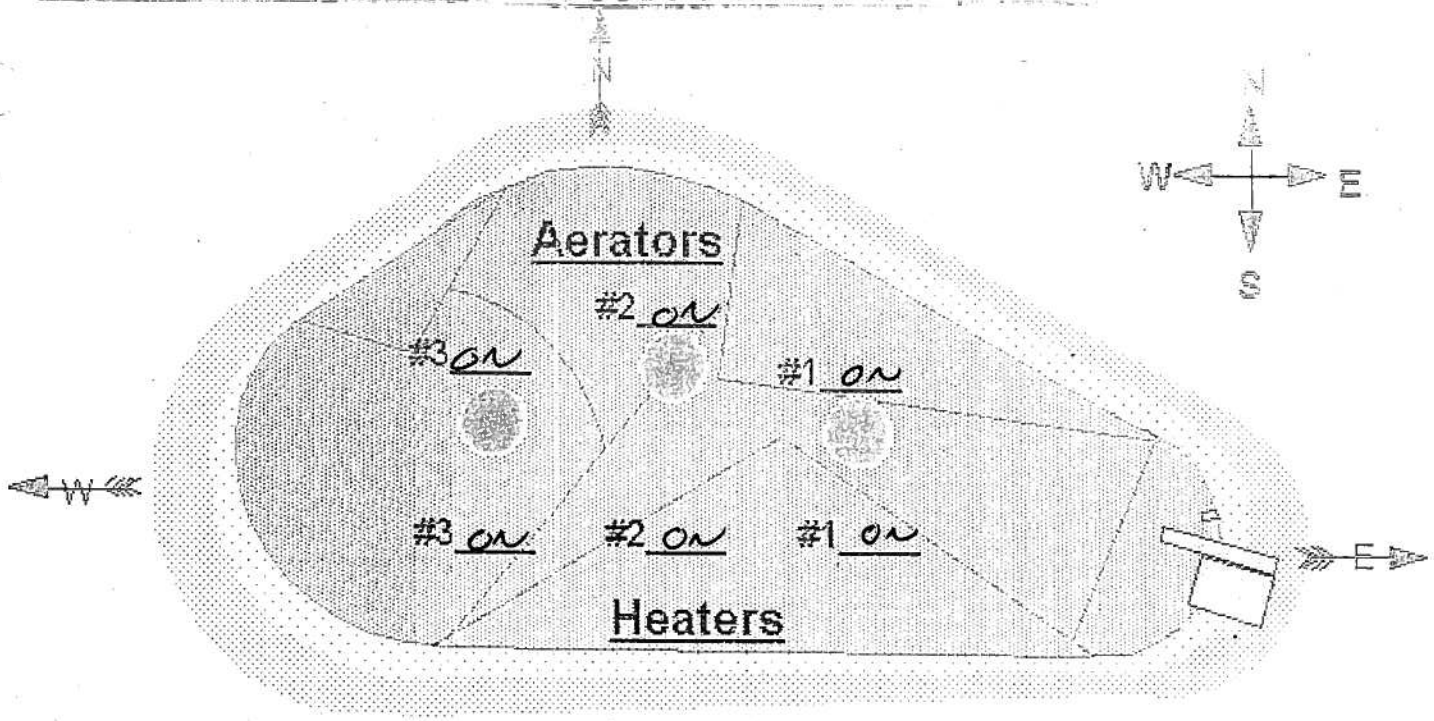
Water Level- Not Flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Inspected by [signature] 12-12-11
Date

Supervisor Review [signature] 12-12-11
Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 7.1
Oxygen 12
pH 8.48
Time 0700

Water Level +4"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 5.6
Wind Direction NONE

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- SLIGHT

East-

Water Temp 6.7
Oxygen 12
pH 8.50
Time 0730

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

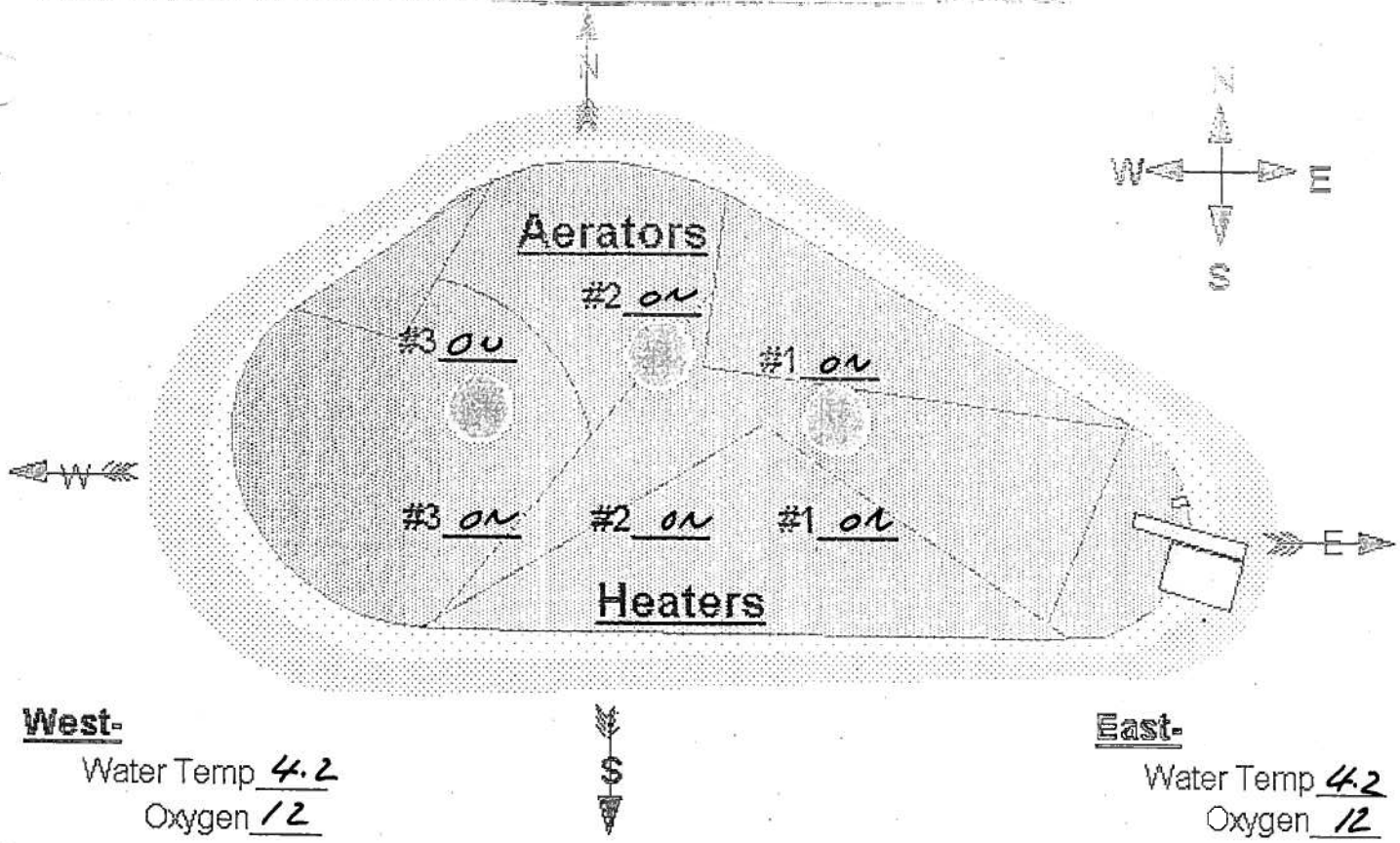
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by — 12-15-11 Date

Supervisor Review — 12-22-11 Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 4.2
Oxygen 12
pH 8.56
Time 0700

Water Level +3/12"
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 4.4
Wind Direction NONE

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 4.2
Oxygen 12
pH 8.44
Time 0730

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

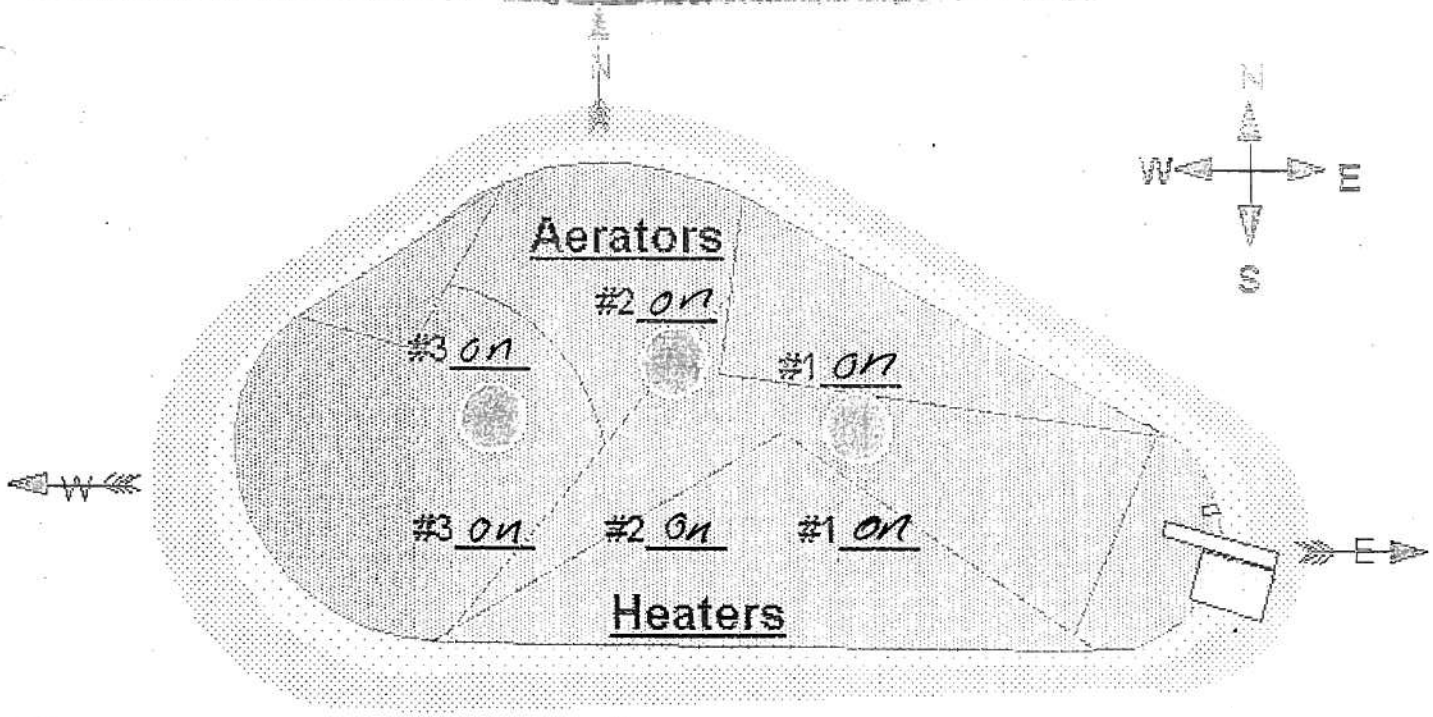
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

[signature] 12-22-11
Inspected by Date

[signature] 12-22-11
Supervisor Review Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 5.6
Oxygen 12
pH 8.57
Time 1:50

Water Level +3
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 15.5
Wind Direction None

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- None

East-

Water Temp 4.8
Oxygen 12
pH 8.54
Time 2:00

Common Bacterium-Per Drop ____
Activated Sludge ____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

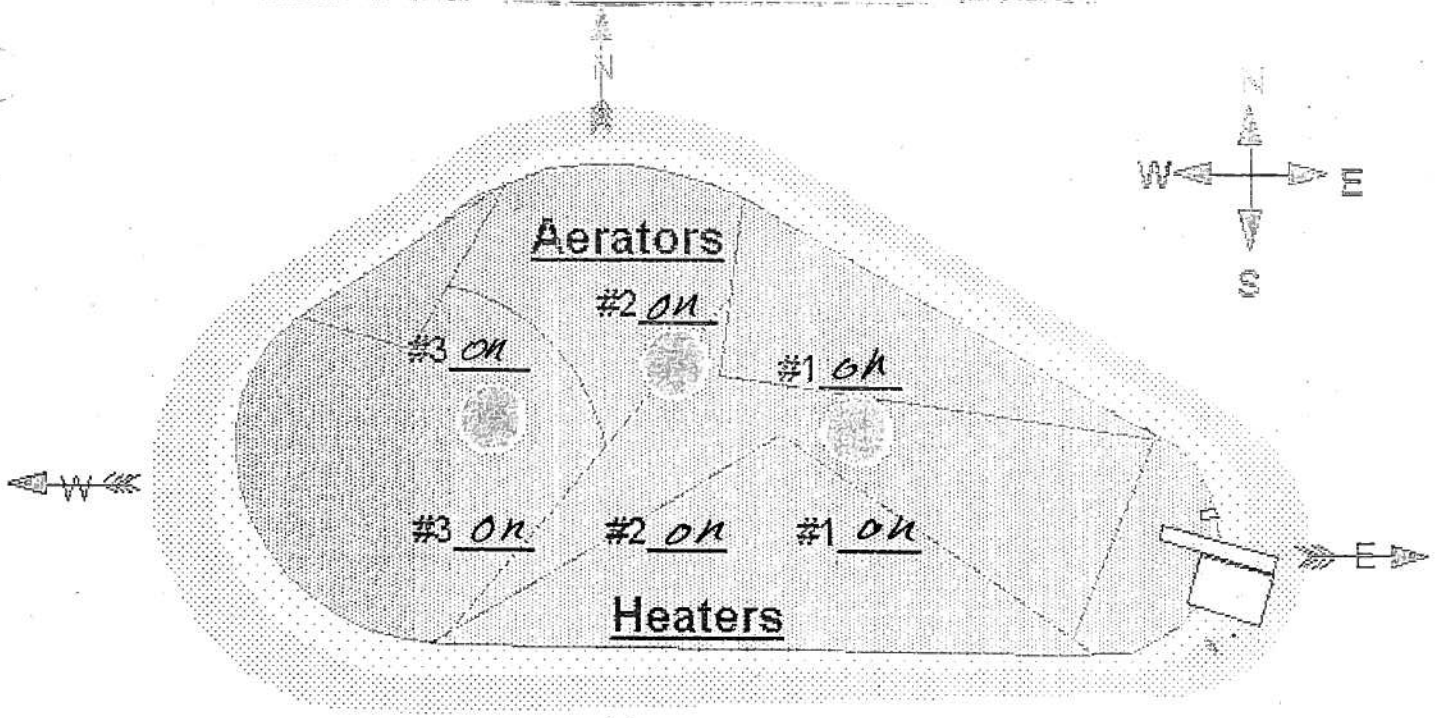
Water Level- Not Flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Dave Amaro — Inspected by — 12-26-11 — Date

Dave Amaro — Supervisor Review — 12-26-11 — Date

Comments _____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 10.6
Oxygen 12
pH 8.69
Time 14:15

East-

Water Temp 10.1
Oxygen 12
pH 8.67
Time 14:20

Water Level +3
Water Meter-Stop 7028279
Water Meter-Start 7028279

Water Added 0
Air Temp. 16.5
Wind Direction None

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- None

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

Water Level- Not Flowing
Erosion Some
Animal Burrows Some
Weed Control Some

Dan Amrhein — 12-29-11
Inspected by — Date

Dan Amrhein — 12-29-11
Supervisor Review — Date

Comments

All Ground Water Sampling Data

WGMD

Target Sample Date: 09-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

WELL ID: M-7DS AREA INFO: S300/GSA/EGSA

DATE: 09-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21132

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

SCREENED INTERVAL: 18.80 - 28.80 PUMP INTAKE DEPTH: 27.80

CASING DEPTH(calc)/(fbgs): 30.30 / 27 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00

DEPTH TO WATER(fbmp): 8.50 on 04-MAY-11 11.28 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 21.50 19.02 CASING VOL (Gal/Time): 17.76 15.7 x 3 = 47.1

TIME PUMP ON: 0818 INITIAL FLOW RATE (Q=GPM): 2.0 a

TIME PUMP OFF: 0849 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0826		15.7	1	7.45	20.9	1411	155	1	11.32
0834		31.4	2	7.87	20.8	1411	141	1	11.33
0842		47.1	3	7.39	20.9	1411	133	1	11.53
~~0844~~				7.37	21.0	1412	136	1	
0846				7.37	21.0	1410	133	1	

METER SERIAL # CALIBRATED

pH : 610563 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: 53.29 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): M-7DS/3VES TIME COLLECTED: 0849

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	~~1~~	~~250 ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~S3METALS~~	~~1~~	~~500ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~S3METALS:FILTER~~	~~0~~	~~500ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~S3WETCHEM~~	~~2~~	~~500ml Polyethylene~~
3MRP	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Removed all CL

WAWD

All Ground Water Sampling Data

Target Sample Date: 16-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

WELL ID: W-7DS AREA INFO: S300/GSA/EGSA

DATE: 16-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23009 10

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

SCREENED INTERVAL: 18.80 - 28.80 PUMP INTAKE DEPTH: 27.80

CASING DEPTH(calc)/(fbgs): 30.30 / 27 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00

DEPTH TO WATER(fbmp): 12.95 on 07-SEP-11 15.10 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 17.05 15.20 CASING VOL (Gal/Time): 14.09 12.5 & 3 = 37.5

TIME PUMP ON: 1009 INITIAL FLOW RATE (Q=GPM): 2.5

TIME PUMP OFF: 1033 MEASURED BY:FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
KS		12.5	1	8.09	22.0	1522	207	1	15.14
1020		25	2	7.93	22.0	1523	228	1	15.18
1025		37.5	3	7.92	21.9	1522	230	1	15.20
1027				7.90	21.9	1520	230	1	
1029				7.89	21.9	1523	228	1	

METER SERIAL # CALIBRATED

pH : 6109883 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: 42.26 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): W-705 / 3085 TIME COLLECTED: 1033

	PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS	/ QUANTITY	/ TYPE OF CONTAINERS
NO	~~3EMG~~	~~BCLABS-BAK~~	~~E120.1~~	~~1~~	~~250 ml Polyethylene~~
	~~3EMG~~	~~BCLABS-BAK~~	~~E150.1~~	~~1~~	~~250 ml Polyethylene~~
	~~3EMG~~	~~BCLABS-BAK~~	E300.0:NO3	~~1~~	~~250 ml Polyethylene~~
	3EMG	PGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Evacuated all CL. Used Test Strips to Verify

All Ground Water Sampling Data

WGMW7

Target Sample Date: 15-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

WELL ID: W-7DS AREA INFO: S300/GSA/EGSA

DATE: 15-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23009

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

SCREENED INTERVAL: 18.80 - 28.80 PUMP INTAKE DEPTH: 27.80

CASING DEPTH(calc)/(fbgs): 30.30 / 27 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00

DEPTH TO WATER(fbmp): 12.95 on 07-SEP-11 15.28 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 17.05 15.02 CASING VOL (Gal/Time): 14.09 12.4 x 3 = 37.2

TIME PUMP ON: 1008 INITIAL FLOW RATE (Q=GPM): 2.5

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1013		12.4	1	8.11	21.5	1531	319	1	15.29
1018		24.8	2	7.97	21.8	1522	327	1	15.29
1023		37.2	3	7.93	21.9	1524	330	1	15.33
1025				7.91	21.9	1520	325	1	
1027				7.91	21.7	1518	327	1	

METER SERIAL # CALIBRATED

pH : 610883 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG

SAMPLE PRESERVATION/AMT of REAGENT: N/A

PURGE VOL/EXCESS H2O DEST: 42.26 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): W-7DS / 3VES TIME COLLECTED: 1030

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3EMG	BCLABS-BAK	E120.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E150.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E300.0:NO3	1	250 ml Polyethylene
~~3EMG~~	~~FGLSTK~~	SM9221:SHO	~~1~~	~~250 ml Sterilized Polyethylene~~

Add 2.5 oz of CL to well

Revision: 07/08/2011

All Ground Water Sampling Data

WELLS

Target Sample Date: 09-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

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

DATE: 8/10/11 ~~09-Aug-2011~~ GW LOG BOOK (DOCUMENT CONTROL) #: AA21132 4

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

SCREENED INTERVAL: 18.30 - 28.30 PUMP INTAKE DEPTH: 26.30

CASING DEPTH(calc)/(fbgs): 30.10 / 26.8 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00

DEPTH TO WATER(fbmp): 9.20 on 05-MAY-11 12.58 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 20.60 17.52 CASING VOL (Gal/Time): 17.02 14.5 X 3 = 43 5

TIME PUMP ON: 0900 INITIAL FLOW RATE (Q=GPM): 3.1 Q

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0905		14 5	1	7.57	21.4	1448	82	1	12.70
0910		29	2	7.49	21.5	1444	10	1	12.76
0914		43.5	3	7.50	21.6	1441	10	1	12.78
0916				7.53	21.5	1441	9	1	
0918				7.53	21.5	1440	9	1	

METER SERIAL # CALIBRATED

pH : 610583 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: 51.06 / S300-DRUM

TF LOCATION: S300

QC SAMPLE ID: CGSAFB QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 0922

SAMPLE ID (VERIFY): W-7ES / 3VES TIME COLLECTED: 0922

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
3MRP	BCLABS-BAK	S3METALS	1	500ml Polyethylene
3MRP	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
3MRP	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
~~3MRP~~	~~FGLSTK~~	~~SM9221+SHC~~	~~1~~	~~250 ml Sterilized Polyethylene~~

Added 2.0 oz of CL

Revision: 07/08/2011

All Ground Water Sampling Data

Target Sample Date: 16-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

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

DATE: 16-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23010

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

SCREENED INTERVAL: 18.30 - 28.30 PUMP INTAKE DEPTH: 26.30

CASING DEPTH(calc)/(fbgs): 30.10 / 26.8 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00

DEPTH TO WATER(fbmp): 14.26 on 07-SEP-11 16.72 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 15.54 13.38 CASING VOL (Gal/Time): 12.84 11.0 x 3 = 33

TIME PUMP ON: 1227 INITIAL FLOW RATE (Q=GPM): 2.5 Q

TIME PUMP OFF: 1249 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1232		11	1	7.60	22.2	1579	110	1	16.81
1236		22	2	7.65	22.4	1545	95	1	16.93
1240		33	3	7.63	22.3	1544	99	1	16.95
1242				7.63	22.3	1540	100	1	
1244				7.62	22.1	1542	103	1	

METER SERIAL # CALIBRATED

pH : 610863 610863 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG 3CMP

SAMPLE PRESERVATION/AMT of REAGENT: NA

PURGE VOL/EXCESS H2O DEST: 38.52 / S300-DRUM

TF LOCATION: S300

QC SAMPLE ID: CGSAFB QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1249

SAMPLE ID (VERIFY): W-755 TIME COLLECTED: 1249

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3EMG	BCLABS-BAK	E120.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E150.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E300.0:NO3	1	250 ml Polyethylene
3CMP	BCLABS-BAK	E601	3	40 mL Glass VOA vial
3EMG	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Added 2.0 oz of CC

All Ground Water Sampling Data

W6MD

Target Sample Date: 11-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

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

DATE: 11-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: AA211345

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

SCREENED INTERVAL: 19.48 - 22.48 INTAKE DEPTH: 0.00

CASING DEPTH(calc)/(fbgs): 22.48 / 19.5 CASING DIAMETER/TCASING HT(in): 4.5 / 2.68

DEPTH TO WATER(fbmp): 9.09 on 04-MAY-11 12.68 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 13.09 12.37 CASING VOL (Gal/Time): 10.81 10.2 x 3 = 30.6

TIME PUMP ON: 1033 INITIAL FLOW RATE (Q=GPM): 1.4

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1040		10.2	1	7.70	21.6	1509	130	1	12.68
1047		20.4	2	7.59	21.8	1513	99	1	12.68
1055		30.6	3	7.59	21.8	1513	90	1	12.68
1057				7.58	21.8	1512	87	1	
1059				7.59	21.8	1511	63	1	

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

SAMPLER/EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT:

PURGE VOL/EXCESS H2O DEST: 32.44 / S300-DRUM

TF LOCATION: S300

QC SAMPLE ID: W-75Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: ~~1104~~ 1113

SAMPLE ID (VERIFY): W-7PS / 3VES TIME COLLECTED: 1109

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS	/ QUANTITY	/ TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	1	~~250 ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	S3METALS	1	~~500ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~S3METALS-FILTER~~	0	~~500ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~S3WETCHEM~~	2	~~500ml Polyethylene~~
3MRP	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

NOTE:

Purge rate/time: N/A since est_sus_flow = 0

Purge Volume: 23.7900009 gal.

Revision: 07/08/2011

All Ground Water Sampling Data

WGMD

Target Sample Date: 09-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

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

DATE: 8/10/11 ~~09-Aug-2011~~ GW LOG BOOK (DOCUMENT CONTROL) #: AA21138 4

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

SCREENED INTERVAL: 19.48 - 22.48 INTAKE DEPTH: 0.00

CASING DEPTH(calc)/(fbgs): 22.48 / 19.5 CASING DIAMETER/TCASING HT(in): 4.5 / 2.68

DEPTH TO WATER(fbmp): 9.09 on 04-MAY-11 1235 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 13.09 10.13 CASING VOL (Gal/Time): 10.81 9.4 x 3 = 25.2 gal

TIME PUMP ON: 0942 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
0949		9.4	1	7.72	21.8	1508	48	1	12.61
0956		16.8	2	7.61	22.0	1512	47	1	12.65
1003		25.2	3	7.59	22.0	1510	43	1	12.65
1005				7.59	21.9	1512	40	1	
1007				7.58	21.9	1515	40	1	

METER SERIAL # CALIBRATED

pH : 610083 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: HA

PURGE VOL/EXCESS H2O DEST: 32.44 / S300-DRUM

TF LOCATION: S300

QC SAMPLE ID: W-75Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1113

SAMPLE ID (VERIFY): W-7PS / 3049 TIME COLLECTED: 1011

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
3MRP	BCLABS-BAK	S3METALS	1	500ml Polyethylene
3MRP	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
3MRP	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
3MRP	~~FGLSTK~~	~~SM9221:SHO~~	~~1~~	~~250-ml Sterilized-Polyethylene~~

Added 2.0 oz of CL

NOTE:
Purge rate/time: N/A since est_sus_flow = 0
Purge Volume: 23.7900009 gal.
Revision: 07/08/2011

All Ground Water Sampling Data

WGMD

Target Sample Date: 16-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

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

DATE: 16-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: ~~AA23069~~ 13

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

SCREENED INTERVAL: 19.48 - 22.48 INTAKE DEPTH: 0.00

CASING DEPTH(calc)/(fbgs): 22.48 / 19.5 CASING DIAMETER/TCASING HT(in): 4.5 / 2.68

DEPTH TO WATER(fbmp): 14.00 on 07-SEP-11 16.30 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 8.18 6.18 CASING VOL (Gal/Time): 6.76 5.1 x 3cc = 15.3 Gal

TIME PUMP ON: 1043 INITIAL FLOW RATE (Q=GPM): 1.5

TIME PUMP OFF: 1103 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1047		5.1	1	7.64	23.0	1589	425	1	16.61
1050		10.2	2	7.65	23.1	1584	413	1	16.68
1053		15.3	3	7.64	23.1	1585	399	1	16.73
1055				7.63	23.0	1583	381	1	16.75
1057				7.63	23.0	1580	379	1	

METER SERIAL # CALIBRATED

pH : 610883 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG 3CMP

SAMPLE PRESERVATION/AMT of REAGENT: NA

PURGE VOL/EXCESS H2O DEST: 20.27 / S300-DRUM

TF LOCATION: S300

QC SAMPLE ID: W-75Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1150

SAMPLE ID (VERIFY): W-7PS / 3VES TIME COLLECTED: 1103

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3EMG	BCLABS-BAK	E120.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E150.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E300.0:NO3	1	250 ml Polyethylene
3CMP	BCLABS-BAK	E601	3	40 mL Glass VOA vial
3EMG	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Evaluated all Cl used test strips to Verify

NOTE:
Purge rate/time: N/A since est_sus_flow = 0
Purge Volume: 23.7900009 gal.
Revision: 07/08/2011

All Ground Water Sampling Data

WELL D

Target Sample Date: 15-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

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

DATE: 15-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23009

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

SCREENED INTERVAL: 19.48 - 22.48 INTAKE DEPTH: 0.00

CASING DEPTH(calc)/(fbgs): 22.48 / 19.5 CASING DIAMETER/TCASING HT(in): 4.5 / 2.68

DEPTH TO WATER(fbmp): 14.00 on 07-SEP-11 16.28 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 8.18 6.2 CASING VOL (Gal/Time): 6.76 5.1 x3 = 15.3

TIME PUMP ON: 1045 INITIAL FLOW RATE (Q=GPM): 1.4

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1049		5.1	1	7.86	22.5	1593	277	1	16.55
1052		10.2	2	7.87	22.9	1590	300	1	16.57
1056		15.3	3	7.87	22.8	1589	293	1	16.60
1058									
1100									

METER SERIAL # CALIBRATED

pH : 060883 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG 3CMP

SAMPLE PRESERVATION/AMT of REAGENT: N/A

PURGE VOL/EXCESS H2O DEST: 20.27 / S300-DRUM

TF LOCATION: S300

QC SAMPLE ID:W-75Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1134

SAMPLE ID (VERIFY): W-7PS / 3015 TIME COLLECTED: 1105

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS	/ QUANTITY	/ TYPE OF CONTAINERS
3EMG	BCLABS-BAK	E120.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E150.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E300.0:NO3	1	250 ml Polyethylene
3CMP	BCLABS-BAK	E601	3	40 mL Glass VOA vial
NO ~~3EMG~~	~~FGLSTK~~	~~SM9221:SHO~~	~~1~~	~~250 ml Sterilized Polyethylene~~

Added 20 oz of CL

NOTE:
Purge rate/time: N/A since est_sus_flow = 0
Purge Volume: 23.7900009 gal.
Revision: 07/08/2011

All Ground Water Sampling Data

Target Sample Date: 08-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

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

DATE: 08-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21132

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

SCREENED INTERVAL: 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28

CASING DEPTH(calc)/(fbgs): 28.57 / 29 CASING DIAMETER/TCASING HT(in): 4.5 / 0.00

DEPTH TO WATER(fbmp): 5.31 on 14-JUN-11 7.65 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 23.69 20.92 CASING VOL (Gal/Time): 19.57 17.3 X 51.9 Gal

TIME PUMP ON: 1116 INITIAL FLOW RATE (Q=GPM): 2.5 Q

TIME PUMP OFF: 1144 MEASURED BY:FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1123		17.3	1	7.86	21.8	1405	124	1	7.75
1130		34.6	2	7.82	22.0	1407	125	1	7.75
1137		51.9	3	7.82	22.0	1400	125	1	7.78
1139				7.81	21.8	1403	120		
1141				7.81	21.9	1403	120		

METER SERIAL # CALIBRATED

pH : 610883 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: 58.72 / None

TF LOCATION: Ground

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

SAMPLE ID (VERIFY): W-35A-04 TIME COLLECTED: 1144

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
3MRP	BCLABS-BAK	S3METALS	1	500ml Polyethylene
3MRP	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
3MRP	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
~~3MRP~~	~~FGLSTK~~	~~SM9221.SHG~~	~~1~~	~~250 ml Sterilized Polyethylene~~

Added 20 oz of CC

All Ground Water Sampling Data

Target Sample Date: 09-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

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

DATE: 09-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21132

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

SCREENED INTERVAL: 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28

CASING DEPTH(calc)/(fbgs): 28.57 / 29 CASING DIAMETER/TCASING HT(in): 4.5 / 0.00

DEPTH TO WATER(fbmp): 5.31 on 14-JUN-11 7.77 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 23.69 20.8 CASING VOL (Gal/Time): 19.57 17.1 x 3 = 51.3

TIME PUMP ON: 0942 INITIAL FLOW RATE (Q=GPM): 2.4

TIME PUMP OFF: 1011 MEASURED BY: (FLOW METER) GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0949		17.1	1	7.63	21.4	1413	163	1	~~8.03~~ 7.83
0956		34.2	2	7.83	21.0	1409	185	1	~~8.~~ 7.87
1003		51.3	3	7.57	21.2	1411	173	1	7.93
1005				7.53	21.0	1408	249	1	
1007				7.52	21.0	1407	300	1	

METER SERIAL # CALIBRATED

pH : 610883 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: 58.72 / None

TF LOCATION: Ground

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

SAMPLE ID (VERIFY): W-35A-04/3VES TIME COLLECTED: 1011

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS	/ QUANTITY	/ TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	~~1~~	~~250 ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~S3METALS~~	~~1~~	~~500ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~S3METALS:FILTER~~	~~0~~	~~500ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~S3WETCHEM~~	~~2~~	~~500ml Polyethylene~~
3MRP	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Evacuated all CL

All Ground Water Sampling Data

Target Sample Date: 16-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

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

DATE: 16-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23010

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

SCREENED INTERVAL: 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28

CASING DEPTH(calc)/(fbgs): 28.57 / 29 CASING DIAMETER/TCASING HT(in): 4.5 / 0.00

DEPTH TO WATER(fbmp): 10.55 on 29-SEP-11 11.88 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 18.45 16.69 CASING VOL (Gal/Time): 15.24 13.7 Gal x 3 = 41.1 Gal

TIME PUMP ON: 0844 INITIAL FLOW RATE (Q=GPM): 3.0

TIME PUMP OFF: 0910 MEASURED BY:FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0849		13.7	1	8.34	20.5	1528	171	1	11.91
0853		27.4	2	8.04	21.5	1512	169	1	11.95
0857		41.1	3	7.93	21.5	1512	170	1	11.98
0859				7.95	21.4	1518	173	1	
0901				7.95	21.2	1520	173	1	

METER SERIAL # CALIBRATED

pH : 610883 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG 3CMP

SAMPLE PRESERVATION/AMT of REAGENT: NA

PURGE VOL/EXCESS H2O DEST: 45.73 / None

TF LOCATION: Ground

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

SAMPLE ID (VERIFY): W-35A-04 | 3VES TIME COLLECTED: 0910

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3EMG	GEL	AS:FILTER	0	1L Polyethylene
3EMG	GEL	AS:UISO	2	1L Polyethylene
3EMG	BCLABS-BAK	E120.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E150.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E200.7:FILTER	0	1L Polyethylene
3EMG	BCLABS-BAK	E200.7:K	1	1L Polyethylene
3EMG	BCLABS-BAK	E300.0:NO3	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E300.0:PERC	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E502.2	6	40 mL Glass VOA vial
3CMP	BCLABS-BAK	E601	3	40 mL Glass VOA vial
3EMG	BCLABS-BAK	E8330:R+H	3	1L Amber Glass
3EMG	GEL	E900	1	1L Polyethylene
3EMG	GEL	E900:FILTER	0	1L Polyethylene
3EMG	GEL	E906	1	250 ml GLASS-AMBER
3EMG	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene
3EMG	BCLABS-BAK	WGMGMET3	1	1L Polyethylene
3EMG	BCLABS-BAK	WGMGMET3:FILTER	0	1L Polyethylene

Added .25 oz of CL

All Ground Water Sampling Data

WAMD

Target Sample Date: 03-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

WELL ID: W-25N-20 AREA INFO: S300/GSA/EGSA

DATE: 03-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21130

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

SCREENED INTERVAL: 14.83 - 29.83 PUMP INTAKE DEPTH: 26.00

CASING DEPTH(calc)/(fbgs): 30.83 / 28 CASING DIAMETER/TCASING HT(in): 4.5 / 2.53

DEPTH TO WATER(fbmp): 7.71 on 04-MAY-11 (10.03) VOLUME FACTOR: 0.826

WATER IN CASING (ft): 22.82 (20.8) CASING VOL (Gal/Time): 18.85 (17.2 x 3 = 51.6 Gal)

TIME PUMP ON: 1037 INITIAL FLOW RATE (Q=GPM): 3.4

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1043		17.2	1	7.81	22.2	1384	-10	1	10.11
1047		34.4	2	7.57	21.9	1399	-0	1	10.12
1052		51.6	3	7.60	22.0	1403	-0	1	10.12
1054				7.59	21.8	1402	-0		
1056				7.59	21.8	1401	-0		

METER SERIAL # CALIBRATED

pH : 610883 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: 56.56 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): W-25N-20/3VES TIME COLLECTED: 1059

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
3MRP	BCLABS-BAK	S3METALS	1	500ml Polyethylene
3MRP	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
3MRP	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
~~3MRP~~	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

~~inoperable pump.~~

~~Sounded like a load was put on it, then quit working~~

Pump is now working (Not sure whats wrong)

Revision: 07/08/2011

Added 250z of CL

Page: 1 of 1

14

WAMD

All Ground Water Sampling Data

Target Sample Date: 04-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

WELL ID: W-25N-20 AREA INFO: S300/GSA/EGSA

DATE: 04-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21130

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

SCREENED INTERVAL: 14.83 - 29.83 PUMP INTAKE DEPTH: 26.00

CASING DEPTH(calc)/(fbgs): 30.83 / 28 / CASING DIAMETER/TCASING HT(in): 4.5 / 2.53

DEPTH TO WATER(fbmp): 7.71 on 04-MAY-11 10.10 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 22.82 20.73 CASING VOL (Gal/Time): 18.85 17.1 x 3eV = 513

TIME PUMP ON: 0936 INITIAL FLOW RATE (Q=GPM): 3.3

TIME PUMP OFF: 0959 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0942		17.1	1	7.50	21.4	1405	157	1	10.18
0948		34.2	2	7.58	21.4	1408	155	1	10.18
0953		51.3	3	7.61	21.4	1408	136	1	10.18
0955				7.56	21.4	1409	139	1	
0957									

METER SERIAL # CALIBRATED

pH : G109883 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: 56.56 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): W-25N-20/3VES TIME COLLECTED: 0959

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
~~3MRP~~	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
~~3MRP~~	BCLABS-BAK	S3METALS	1	500ml Polyethylene
~~3MRP~~	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
~~3MRP~~	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
3MRP	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Removed all CL

WAWD

All Ground Water Sampling Data

Target Sample Date: 14-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

WELL ID: W-25N-20 AREA INFO: S300/GSA/EGSA

DATE: 14-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23008

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

SCREENED INTERVAL: 14.83 - 29.83 PUMP INTAKE DEPTH: 26.00

CASING DEPTH(calc)/(fbgs): 30.83 / 28 CASING DIAMETER/TCASING HT(in): 4.5 / 2.53

DEPTH TO WATER(fbmp): 12.03 on 07-SEP-11 13.93 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 18.50 ~~13.93~~ 16.9 Gal CASING VOL (Gal/Time): 15.28 14 x 3cv = 42 Gal

TIME PUMP ON: 0941 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 # CALIBRATED

pH : 610883 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG

SAMPLE PRESERVATION/AMT of REAGENT: N/A

PURGE VOL/EXCESS H2O DEST: 45.85 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): W-25N-20 / 3VES TIME COLLECTED:

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3EMG	BCLABS-BAK	E120.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E150.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E300.0:NO3	1	250 ml Polyethylene
3EMG	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Pump INoperable. Puts a drain on the Generator. Check possible pump box.

Well Track submitted on 11/15/11 - EW

Unable to collect samples.

WGMD

All Ground Water Sampling Data

Target Sample Date: Month: Norm Qtr: Norm Year:

WELL ID: W-25N-22 AREA INFO:

DATE: 22-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #:

PURGE METHOD/SAMPLE METHOD: / CONTAMINANT PRESENT:

SCREENED INTERVAL: INTAKE DEPTH:

CASING DEPTH(calc)/(fbgs): CASING DIAMETER/TCASING HT(in):

DEPTH TO WATER(fbmp): VOLUME FACTOR:

WATER IN CASING (ft): CASING VOL (Gal/Time):

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 # CALIBRATED

pH : 610883 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: MS / Weiss

PROJECT: 3EMG

SAMPLE PRESERVATION/AMT of REAGENT: NA

PURGE VOL/EXCESS H2O DEST:

TF LOCATION:

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

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

PROJECT / ANALYTICAL LAB / REQUESTED ANALYSIS / QUANTITY / TYPE OF CONTAINERS

Pump was inoperable.

No Sample

load was put on pump then the breaker went off.

Revision: 07/08/2011

Well Track was submitted on 2/1/11

All Ground Water Sampling Data

WGMD

Target Sample Date: 18-Jul-2011 Month: Norm Qtr: 3 Norm Year: 2011

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

DATE: 18-Jul-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21120

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

SCREENED INTERVAL: 21.81 - 36.81 PUMP INTAKE DEPTH: 36.50

CASING DEPTH(calc)/(fbgs): 38.11 / 35.3 DISCHARGE LINE/TCASING HT(in): 1 / 2.51

DEPTH TO WATER(fbmp): 15.11 on 04-MAY-11 16.20 VOLUME FACTOR: ~~0.041~~ .83

WATER IN CASING (ft): 22.70 21.91 CASING VOL (Gal/Time): ~~0.93~~ , ~~.85~~ .83 18.2 X 30=

TIME PUMP ON: 1040 INITIAL FLOW RATE (Q=GPM): 1.5 Q

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 # CALIBRATED

pH : 610883 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: 1.45 / S300-DRUM

TF LOCATION: S300

QC SAMPLE ID: W-25N-48Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME:

SAMPLE ID (VERIFY): W-25N-23 / 3025 TIME COLLECTED:

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
3MRP	BCLABS-BAK	S3METALS	1	500ml Polyethylene
3MRP	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
3MRP	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
3MRP	FGLSTK	SM9221:SHC	1	~~250~~ ml Sterilized Polyethylene

NO Samples

Pump worked for a few minutes then quit.

WAMD

All Ground Water Sampling Data

Target Sample Date: 04-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

WELL ID: W-26R-01 AREA INFO: 8300/GSA/EGSA

DATE: 04-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21130

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

SCREENED INTERVAL: 22.72 - 27.72 PUMP INTAKE DEPTH: 29.00

CASING DEPTH(calc)/(fbgs): 30.00 / 29.8 CASING DIAMETER/TCASING HT(in): 4.5 / 2.67

DEPTH TO WATER(fbmp): 11.99 on 04-MAY-11 14.44 VOLUME FACTOR: 0.826 1"

WATER IN CASING (ft): 20.48 15.56 CASING VOL (Gal/Time): 16.92 12.8 x 3cv = 38.4

TIME PUMP ON: 1005 INITIAL FLOW RATE (Q=GPM): 1.6 @

TIME PUMP OFF: 1033 MEASURED BY: (FLOW METER)/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1015		12.8	1	7.62	22.3	1467	622	1	
1023	2.0	25.6	2	7.44	21.9	1463	663	1	21.21
1029	4.0	38.4	3	7.38	21.5	1460	585	1	26.42
1031	4.0			7.37	21.5	1463	473		
1033	2.0			7.38	21.5	1470	458		

METER SERIAL # CALIBRATED

pH : 610883 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: HA

PURGE VOL/EXCESS H2O DEST: 50.76 / TF-834

TF LOCATION: 834

QC SAMPLE ID: EGSAFB QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1037

SAMPLE ID (VERIFY): W-26R-01/3VES TIME COLLECTED: 1037

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
~~3MRP~~	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
~~3MRP~~	BCLABS-BAK	S3METALS	1	500ml Polyethylene
~~3MRP~~	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
~~3MRP~~	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
3MRP	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Had to turn up Purge volume to get rid of CL.

Evacuated all CL

Revision: 07/08/2011

All Ground Water Sampling Data

WWMD

Target Sample Date: 03-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

WELL ID: W-26R-01 AREA INFO: 8300/GSA/EGSA

DATE: 03-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21130

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

SCREENED INTERVAL: 22.72 - 27.72 PUMP INTAKE DEPTH: 29.00

CASING DEPTH(calc)/(fbgs): 30.00 / 29.8 CASING DIAMETER/TCASING HT(in): 4.5 / 2.67

DEPTH TO WATER(fbmp): 11.99 on 04-MAY-11 14.38 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 20.48 15.62 CASING VOL (Gal/Time): 16.92 12.9 x 3 = 38.7 Gal

TIME PUMP ON: 0950 INITIAL FLOW RATE (Q=GPM): 1.5

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0958		12.9	1	7.66	22.1	1459	43	1	18.66
1008		25.8	2	7.67	22.5	1456	30	1	18.73
1017		38.7	3	7.70	22.4	1457	21	1	18.81
1019				7.72	22.3	1459	18	1	
1021				7.73	223	1455	18	1	

METER SERIAL # CALIBRATED

pH : 610883 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: 50.76 / TF-834

TF LOCATION: 834

QC SAMPLE ID: EGSAFB QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME:

SAMPLE ID (VERIFY): W-26R-01 / 3VES TIME COLLECTED: 1024

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
3MRP	BCLABS-BAK	S3METALS	1	500ml Polyethylene
3MRP	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
3MRP	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
~~3MRP~~	~~FGLSTK~~	~~SM9221+CHO~~	~~1~~	250 ml Sterilized Polyethylene

Added 2.0 oz of CL

All Ground Water Sampling Data

WQMD

Target Sample Date: 15-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

WELL ID: W-26R-01 AREA INFO: 8300/GSA/EGSA

DATE: 15-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23008

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

SCREENED INTERVAL: 22.72 - 27.72 PUMP INTAKE DEPTH: 29.00

CASING DEPTH(calc)/(fbgs): 30.00 / 29.8 CASING DIAMETER/TCASING HT(in): 4.5 / 2.67

DEPTH TO WATER(fbmp): 6.50 on 07-SEP-11 18.46 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 25.97 11.54 CASING VOL (Gal/Time): 21.46 9.5 x 3 = 28.5 Gal

TIME PUMP ON: 0905 INITIAL FLOW RATE (Q=GPM): 2.0

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0910	2	9.5	1	6.20	21.5	1500	671	1	22.18
0915	2	19.0	2	6.17	21.4	1473	602	1	24.42
0920	2	28.5	3	6.80	21.5	1470	576	1	26.71
0922				7.20	21.8	1472	482	1	
0924				7.25	21.9	1468	480	1	
0926				7.27	21.7	1463	443	1	

METER SERIAL # CALIBRATED

pH : 610883 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG 3PSDMP

SAMPLE PRESERVATION/AMT of REAGENT: NA

PURGE VOL/EXCESS H2O DEST: 64.37 / TF-834

TF LOCATION: 834

QC SAMPLE ID: W-26R-49Y QC LAB(S) ~~FGLSTK, BCLABS-BAK, CALTEST~~ QC SAMPLE TIME: 1200

SAMPLE ID (VERIFY): W-26R-01 / 3065 TIME COLLECTED: 0929

	PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
NO	~~3EMG~~	~~BCLABS-BAK~~	~~E120.1~~	~~1~~	~~250 ml Polyethylene~~
	~~3EMG~~	~~BCLABS-BAK~~	~~E150.1~~	1	~~250 ml Polyethylene~~
	~~3EMG~~	~~BCLABS-BAK~~	~~E300.0+NO3~~	~~1~~	~~250 ml Polyethylene~~
	~~3PSDMP~~	~~CALTEST~~	~~E601~~	~~3~~	~~40 ml Glass VOA Vial~~
	3EMG	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Evacuated all cc tested using pool test strips

WGMD

All Ground Water Sampling Data

Target Sample Date: 14-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

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

DATE: 14-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23008

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

SCREENED INTERVAL: 22.72 - 27.72 PUMP INTAKE DEPTH: 29.00

CASING DEPTH(calc)/(fbgs): 30.00 / 29.8 CASING DIAMETER/TCASING HT(in): 4.5 / 2.67

DEPTH TO WATER(fbmp): 6.50 on 07-SEP-11 18.50 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 25.97 11.50 CASING VOL (Gal/Time): 21.46 9.5 x 3cu = 28.5

TIME PUMP ON: 0953 INITIAL FLOW RATE (Q=GPM): 1.5 G

TIME PUMP OFF: 1023 MEASURED BY: (FLOW METER) / GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1000		9.5	1	7.64	21.8	1476	158	1	22.64
1006		19	2	7.64	22.4	1470	113	1	22.86
1013		28.5	3	7.69	22.5	1467	91	1	2330
1015									
1017									

METER SERIAL # CALIBRATED

pH : 610583 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG 3PSDMP

SAMPLE PRESERVATION/AMT of REAGENT: N/A

PURGE VOL/EXCESS H2O DEST: 64.37 / TF-834

TF LOCATION: 834

QC SAMPLE ID: W-26R-49Y QC LAB(S) FGLSTK, BCLABS-BAK, CALTEST QC SAMPLE TIME: ~~1015~~ 1201

SAMPLE ID (VERIFY): W-26R-01 / 3VES TIME COLLECTED: 1023

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3EMG	BCLABS-BAK	E120.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E150.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E300.0:NO3	1	250 ml Polyethylene
3PSDMP	CALTEST	E601	3	40 mL Glass VOA vial
ND ~~3EMG~~	~~FGLSTK~~	~~SM9221+6HQ~~	~~1~~	250 ml Sterilized Polyethylene

Added 2.0 oz's of CL

* Water went into Barrels

Revision: 07/08/2011

All Ground Water Sampling Data .

WGMD

Target Sample Date: 18-Jul-2011 Month: Norm Qtr: 3 Norm Year: 2011

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

DATE: 18-Jul-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21120

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

SCREENED INTERVAL: 22.05 - 27.05 INTAKE DEPTH: 0.00

CASING DEPTH(calc)/(fbgs): 26.68 / 25.5 CASING DIAMETER/TCASING HT(in): 4.5 / 1.50

DEPTH TO WATER(fbmp): 16.35 on 02-JUN-11 17.32 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 10.65 9.36 CASING VOL (Gal/Time): 8.80 7.7 x 90% = 6.93

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
		~~8.0 Gal~~	90%	7.17	20.8	1363	111	1	—
0935		7.0 Gal							

METER SERIAL # CALIBRATED

pH : 610883 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: 7.92 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): W-26R-05 / 90BA TIME COLLECTED: 0938

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
3MRP	BCLABS-BAK	S3METALS	1	500ml Polyethylene
3MRP	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
3MRP	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
NO ~~3MRP~~	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Added .3 oz of CL

NOTE:
Purge rate/time: N/A since est_sus_flow = 0
Purge Volume: 10 gal.
Revision: 07/12/2011

All Ground Water Sampling Data

Target Sample Date: 21-Jul-2011 Month: Norm Qtr: 3 Norm Year: 2011

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

DATE: 21-Jul-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21120

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

SCREENED INTERVAL: 22.05 - 27.05 INTAKE DEPTH: 0.00

CASING DEPTH(calc)/(fbgs): 26.68 / 25.5 CASING DIAMETER/TCASING HT(in): 4.5 / 1.50

DEPTH TO WATER(fbmp): 16.35 on 02-JUN-11 (18.36) VOLUME FACTOR: 0.826

WATER IN CASING (ft): 10.65 (8.3) CASING VOL (Gal/Time): 8.80 (6.8 x 90% = 6.1)

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
1208		6.0	90%	8.78	22.6	1439	55	1	—

METER SERIAL # CALIBRATED

pH : 610883 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: 7.92 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): M-26R-05 / 90BA TIME COLLECTED: 1212

	PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
ND	~~3MRP~~	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
	~~3MRP~~	BCLABS-BAK	S3METALS	1	500ml Polyethylene
	~~3MRP~~	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
	~~3MRP~~	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
	3MRP	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Evacuated all CL

NOTE:
Purge rate/time: N/A since est_sus_flow = 0
Purge Volume: 10 gal.
Revision: 07/12/2011

All Ground Water Sampling Data

WGMD

Target Sample Date: 15-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

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

DATE: 15-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23008

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

SCREENED INTERVAL: 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08

CASING DEPTH(calc)/(fbgs): 29.28 / 27 CASING DIAMETER/TCASING HT(in): 4.5 / 1.98

DEPTH TO WATER(fbmp): 13.95 on 07-SEP-11 15.80 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 15.03 ~~15~~ 13.48 CASING VOL (Gal/Time): 12.42 11.1 X 3 = 33.3 Gal

TIME PUMP ON: 0934 INITIAL FLOW RATE (Q=GPM): 2.0 a

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0945		11.1	1	7.62	22.1	1490	325	1	15.78
0949		22.2	2	7.66	22.4	1488	269	1	15.80
0955		33.3	3	7.73	22.3	1492	202	1	15.81
0957				7.71	22.4	1490	201	1	
0959				7.70	22.3	1489	212	1	

METER SERIAL # CALIBRATED

pH : G08563 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG 3CMP

SAMPLE PRESERVATION/AMT of REAGENT: NA

PURGE VOL/EXCESS H2O DEST: 37.25 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): W-26R-11 / 3VES TIME COLLECTED: 1003

	PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
NO	~~3EMG~~	~~BCLABS-BAK~~	~~E120.1~~	~~1~~	~~250 ml Polyethylene~~
	~~3EMG~~	~~BCLABS-BAK~~	~~E150.1~~	~~1~~	~~250 ml Polyethylene~~
	~~3EMG~~	~~BCLABS-BAK~~	~~E300.0:NO3~~	~~1~~	~~250 ml Polyethylene~~
	~~3CMP~~	~~BCLABS-BAK~~	~~E601~~	~~3~~	~~40 mL Glass VOA vial~~
	3EMG	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Evacuated all CL

All Ground Water Sampling Data

WGMD

Target Sample Date: 14-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

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

DATE: 14-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23008

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

SCREENED INTERVAL: 22.05 - 27.05 INTAKE DEPTH: 0.00

CASING DEPTH(calc)/(fbgs): 26.68 / 25.5 CASING DIAMETER/TCASING HT(in): 4.5 / 1.50

DEPTH TO WATER(fbmp): 20.11 on 07-SEP-11 21.90 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 6.89 4.78 CASING VOL (Gal/Time): 5.69 3.9 x 90% = 3.51 Gal

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
0912		3.5	90%	6.97	19.4	1286	88		23.92

METER SERIAL # CALIBRATED

pH : 610883 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG 3PSDMP

SAMPLE PRESERVATION/AMT of REAGENT: N/A

PURGE VOL/EXCESS H2O DEST: 5.12 / S300-DRUM

TF LOCATION: S300

QC SAMPLE ID: EGSAFB QC LAB(S) FGLSTK, BCLABS-BAK, CALTEST QC SAMPLE TIME: 0928

SAMPLE ID (VERIFY): W26R-05 / 90BA TIME COLLECTED: 0928

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS	/ QUANTITY	/ TYPE OF CONTAINERS
3EMG	BCLABS-BAK	E120.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E150.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E300.0:NO3	1	250 ml Polyethylene
3PSDMP	CALTEST	E601	3	40 mL Glass VOA vial
~~3EMG~~	~~FGLSTK~~	~~SM9221+SHO~~	~~1~~	~~250 ml Sterilized Polyethylene~~

Added .3 oz of CL

NOTE:
Purge rate/time: N/A since est_sus_flow = 0
Purge Volume: 10 gal.
Revision: 07/08/2011

WGMD

All Ground Water Sampling Data

Target Sample Date: 08-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

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

DATE: 08-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21132

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

SCREENED INTERVAL: 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08

CASING DEPTH(calc)/(fbgs): 29.28 / 27 CASING DIAMETER/TCASING HT(in): 4.5 / 1.98

DEPTH TO WATER(fbmp): 9.16 on 04-MAY-11 ~~11.85~~ VOLUME FACTOR: 0.826

WATER IN CASING (ft): 19.82 ~~17.43~~ CASING VOL (Gal/Time): 16.38 ~~14.4 X 3 = 43.2~~

TIME PUMP ON: 1015 INITIAL FLOW RATE (Q=GPM): 1.6

TIME PUMP OFF: 1051 MEASURED BY (FLOW METER) GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1024		14.4	1	7.81	21.9	1433	164	1	11.90
1033		28.8	2	7.83	22.0	1437	112	1	11.91
1042		43.2	3	7.79	22.1	1432	116	1	11.92
1044				7.78	21.9	1434	109	1	
1046				7.76	21.9	1432	108	1	

METER SERIAL # CALIBRATED

pH : 610883 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: 49.13 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): W-26R-11 / 3VES TIME COLLECTED: 1051

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250 ml Polyethylene
3MRP	BCLABS-BAK	S3METALS	1	500ml Polyethylene
3MRP	BCLABS-BAK	S3METALS:FILTER	0	500ml Polyethylene
3MRP	BCLABS-BAK	S3WETCHEM	2	500ml Polyethylene
~~3MRP~~	~~BCLSTK~~	~~SM9221.SHO~~	~~1~~	~~250 ml Sterilized Polyethylene~~

Added 2.0 oz of CL

All Ground Water Sampling Data

WGMS

Target Sample Date: 09-Aug-2011 Month: Norm Qtr: 3 Norm Year: 2011

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

DATE: 09-Aug-2011 LOG BOOK (DOCUMENT CONTROL) #: AA21132

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

SCREENED INTERVAL: 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08

CASING DEPTH(calc)/(fbgs): 29.28 / 27 CASING DIAMETER/TCASING HT(in): 4.5 / 1.98

DEPTH TO WATER(fbmp): 9.16 on 04-MAY-11 ~~11.85~~ 11.91 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 19.82 ~~18.06~~ 17.37 CASING VOL (Gal/Time): 16.38 ~~11.9 x 3 = 44.7 Gal~~ 14.3 x 3 = 42.9

TIME PUMP ON: ~~0845~~ 0855 INITIAL FLOW RATE (Q=GPM): ~~2.0 Q~~ 1.5 Q

TIME PUMP OFF: 0932 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0905		~~14.9~~ 14.3	1	7.68	21.4	1443	148	1	11.95
0914		~~29.8~~ 29.6	2	7.49	21.4	1441	134	1	11.95
0924		~~44.7~~ 42.9	3	7.53	21.4	1442	127	1	11.97
0926				7.51	21.3	1441	124	1	
0928				7.55	21.2	1440	125	1	

METER SERIAL # CALIBRATED

pH : 610883 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: 49.13 / S300-DRUM

TF LOCATION: S300

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

SAMPLE ID (VERIFY): W-26R-11 | 3VES TIME COLLECTED: 0930

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~03ANIONS~~	~~1~~	~~250 ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~S3METALS~~	~~1~~	~~500ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~03METALS:FILTER~~	~~0~~	~~500ml Polyethylene~~
~~3MRP~~	~~BCLABS-BAK~~	~~S3WETCHEM~~	~~2~~	~~500ml Polyethylene~~
3MRP	FGLSTK	SM9221:SHO	1	250 ml Sterilized Polyethylene

Encontal all CC

WGMD

All Ground Water Sampling Data

Target Sample Date: 14-Nov-2011 Month: Norm Qtr: 4 Norm Year: 2011

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

DATE: 14-Nov-2011 LOG BOOK (DOCUMENT CONTROL) #: AA23008

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

SCREENED INTERVAL: 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08

CASING DEPTH(calc)/(fbgs): 29.28 / 27 CASING DIAMETER/TCASING HT(in): 4.5 / 1.98

DEPTH TO WATER(fbmp): 13.95 on 07-SEP-11 15.69 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 15.03 13.59 CASING VOL (Gal/Time): 12.42 11.2 X 300 = 336 Gal

TIME PUMP ON: 1057 INITIAL FLOW RATE (Q=GPM): 2.0 @

TIME PUMP OFF: 1123 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1103		11.2	1	7.86	22.8	1486	527	1	15.72
1109		22.4	2	7.73	22.7	1489	18	1	15.75
1114		33.6	3	7.69	22.6	1489	18	1	15.77
1116				7.70	22.4	1490	23	1	
1118				7.70	22.2	1488	20	1	

METER SERIAL # CALIBRATED

pH : 610883 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG 3CMP

SAMPLE PRESERVATION/AMT of REAGENT: N/A

PURGE VOL/EXCESS H2O DEST: 37.25 / S300-DRUM

TF LOCATION: S300

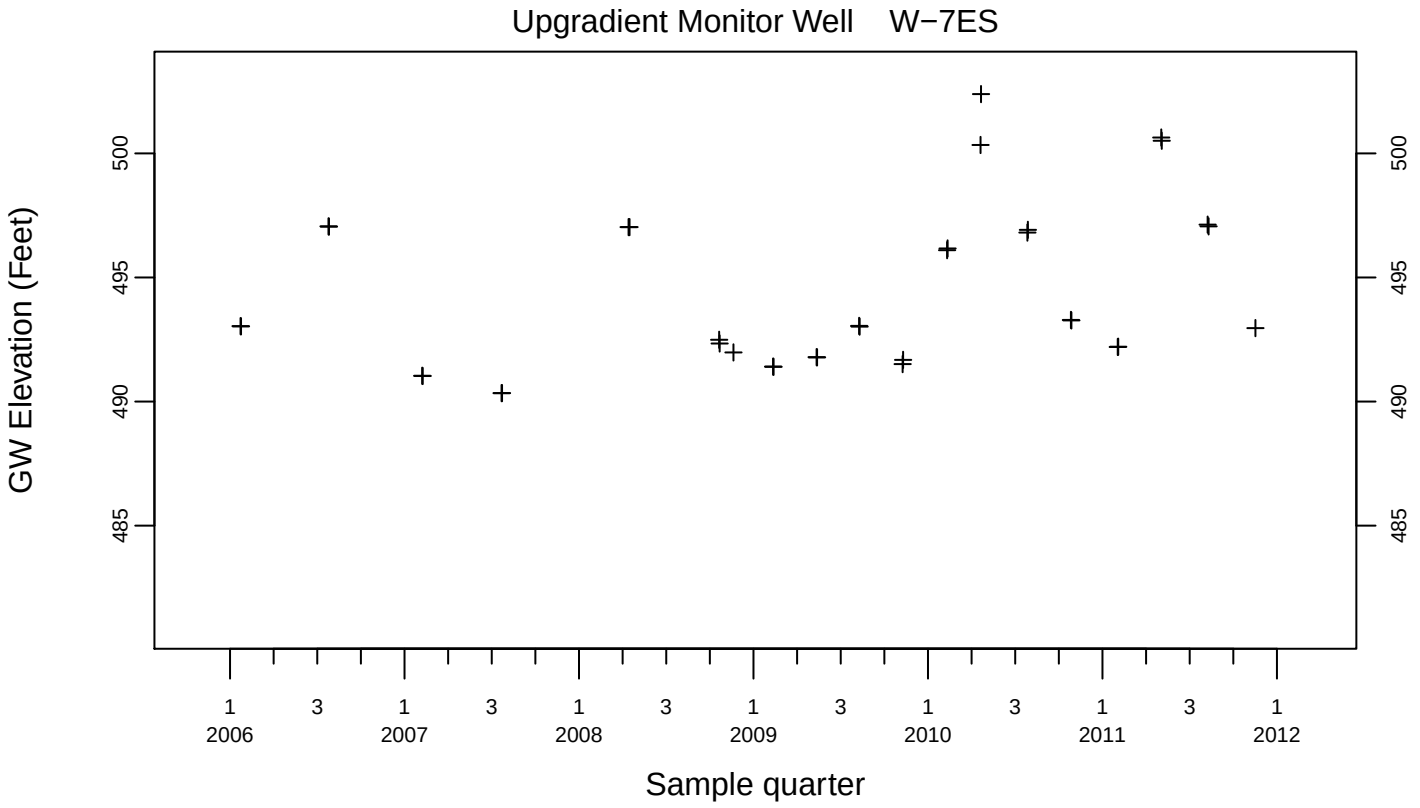
QC SAMPLE ID: — QC LAB(S): — QC SAMPLE TIME: —

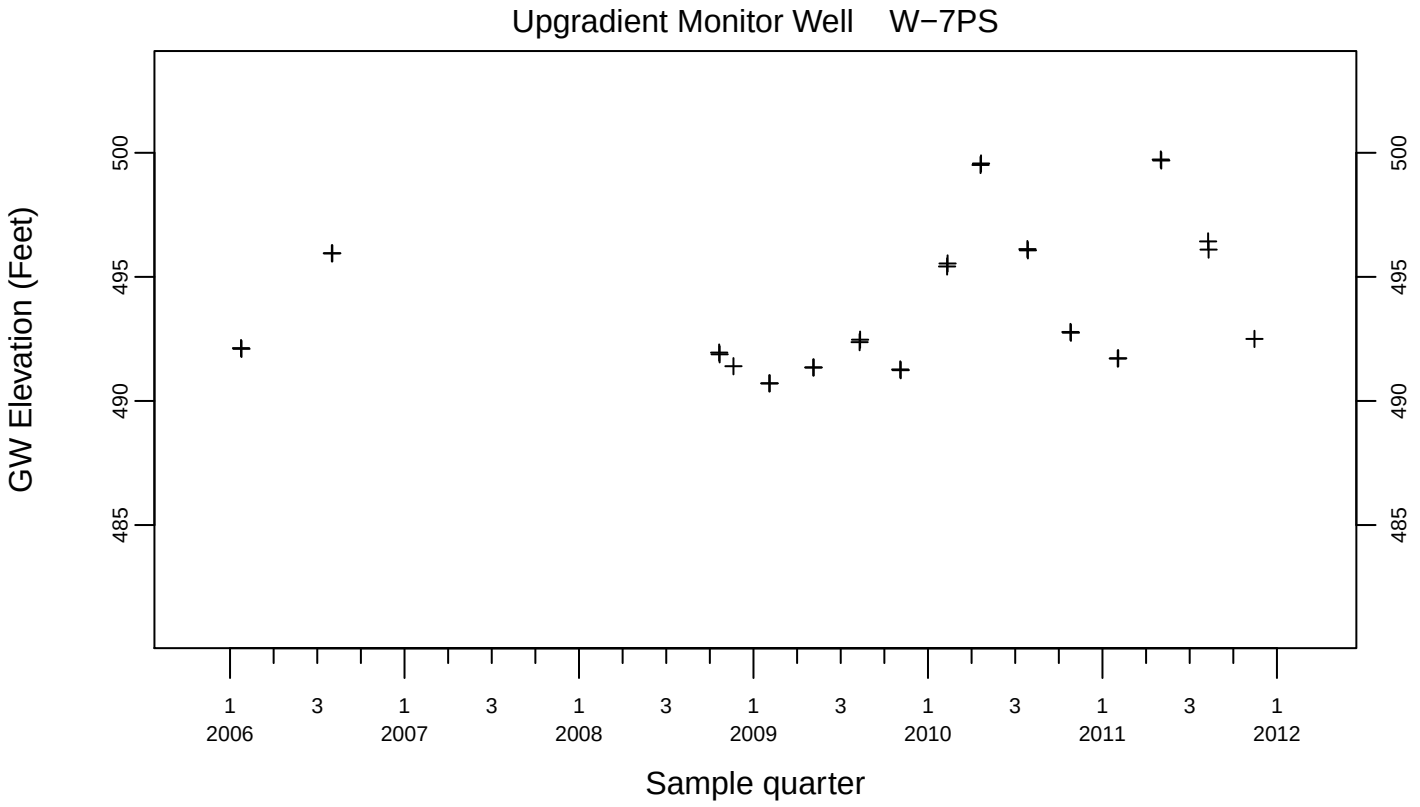
SAMPLE ID (VERIFY): W-26R-11 | 3VES TIME COLLECTED: 1123

PROJECT	/ ANALYTICAL LAB	/ REQUESTED ANALYSIS /	QUANTITY	/ TYPE OF CONTAINERS
3EMG	BCLABS-BAK	E120.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E150.1	1	250 ml Polyethylene
3EMG	BCLABS-BAK	E300.0:NO3	1	250 ml Polyethylene
3CMP	BCLABS-BAK	E601	3	40 mL Glass VOA vial
NO ~~3EMG~~	~~EGLSTK~~	~~SM9221.CHO~~	~~1~~	250 ml Sterilized Polyethylene

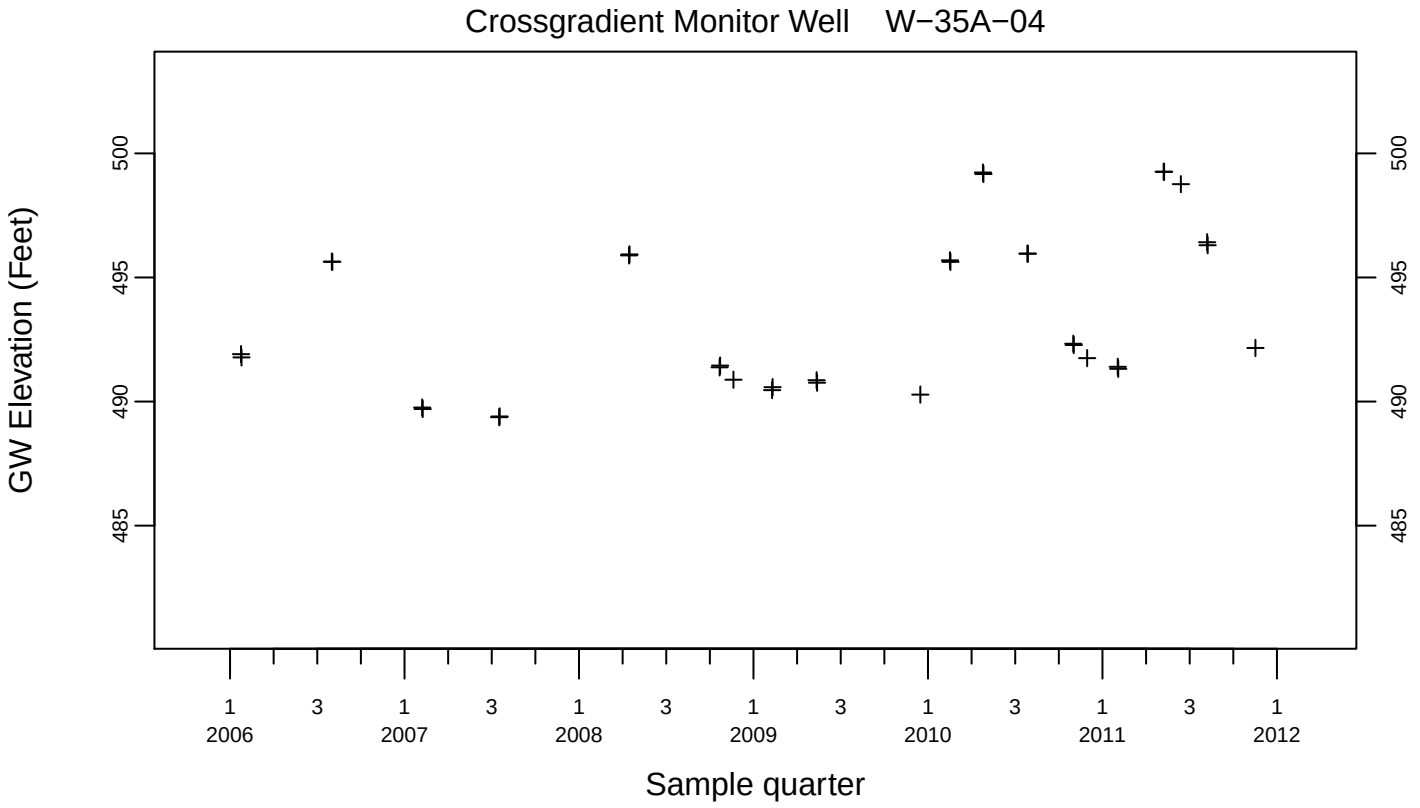
Added 2.0 oz of CC

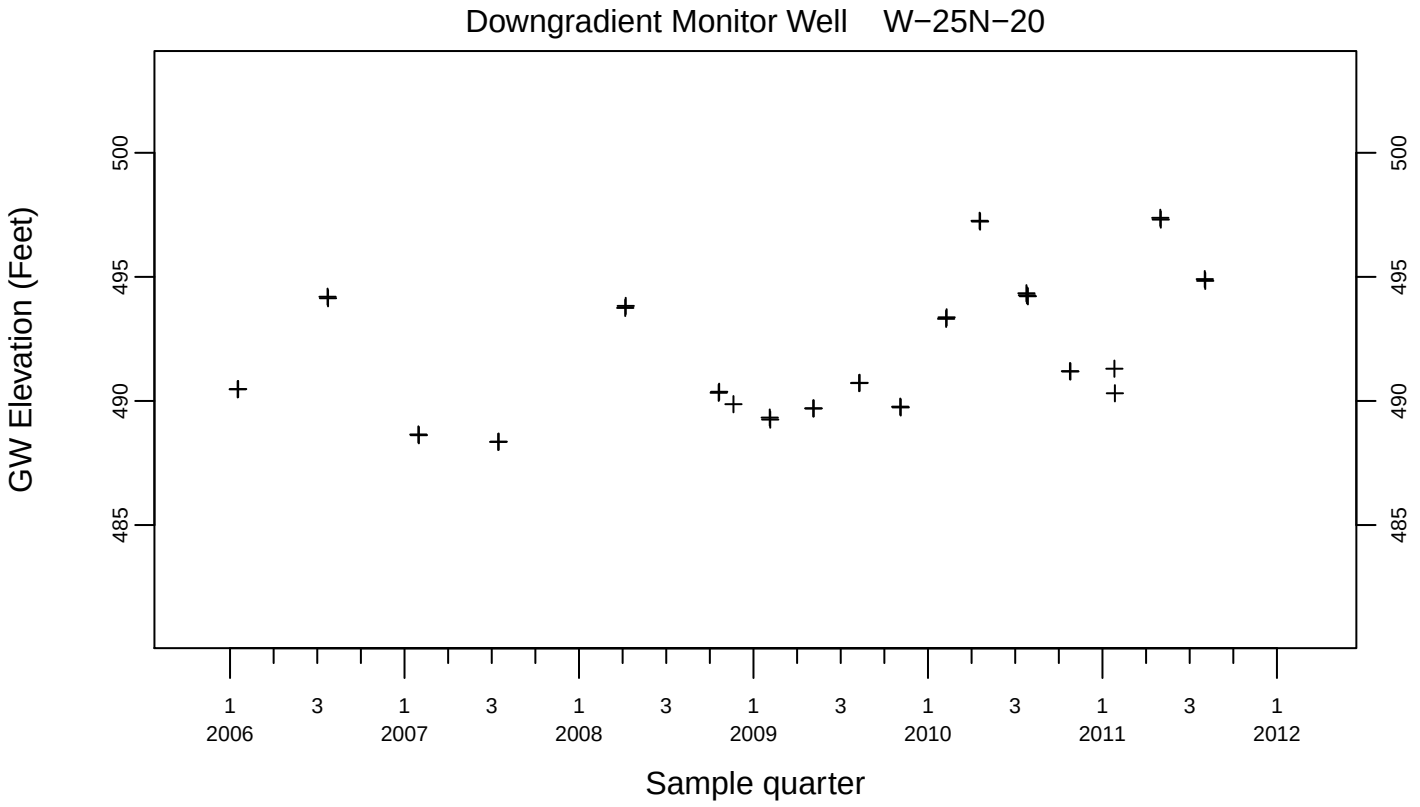
Sewage Ponds Ground Water
GW Elevation (Feet)



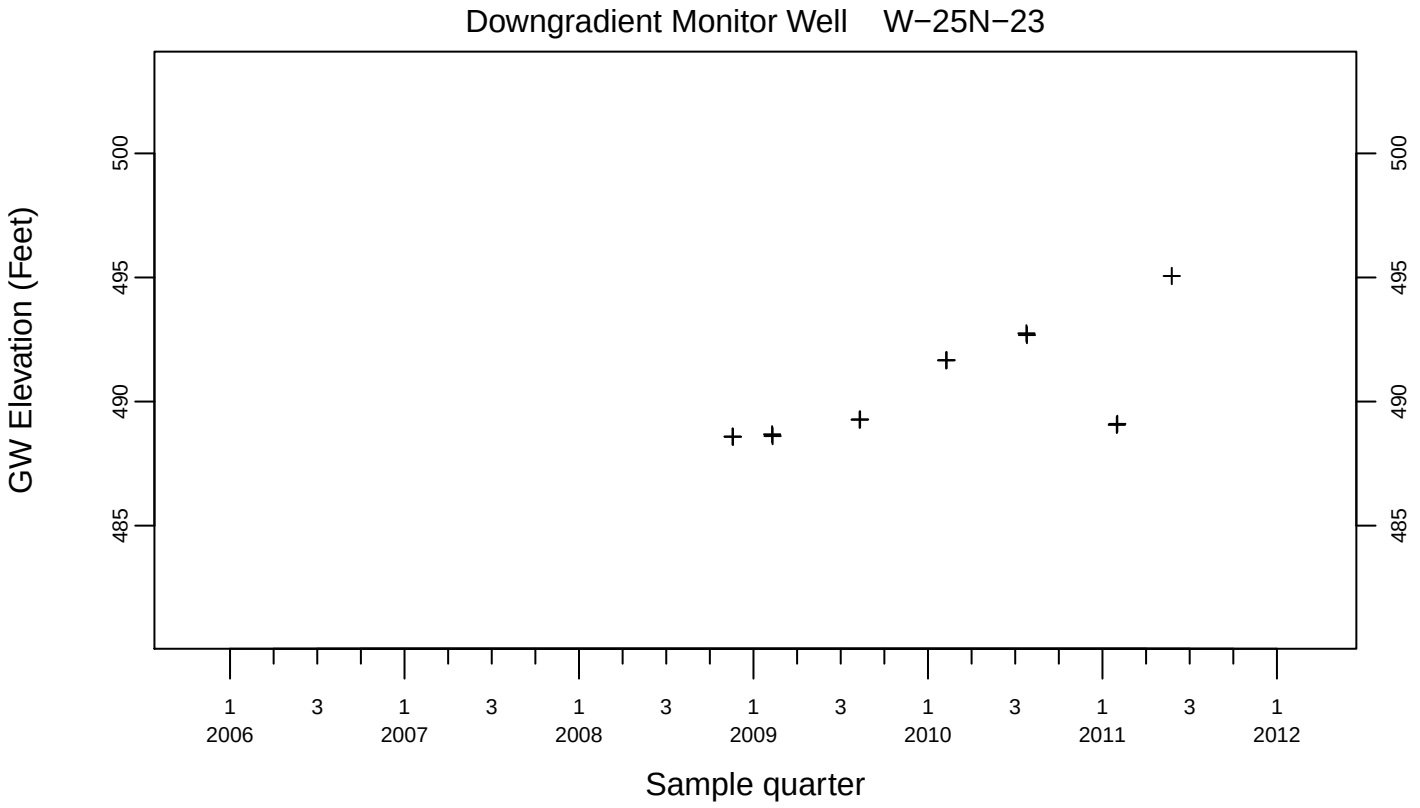


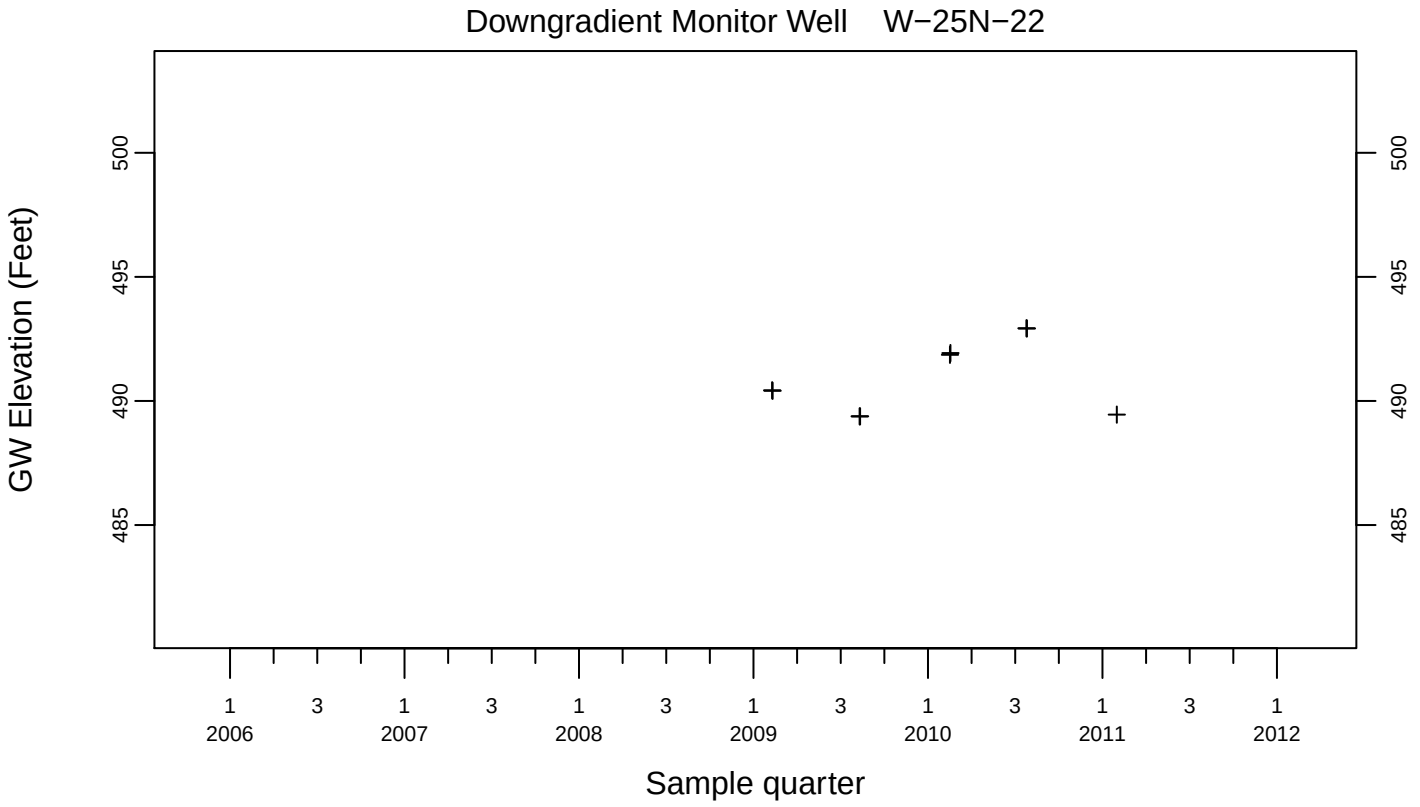
Sewage Ponds Ground Water
GW Elevation (Feet)



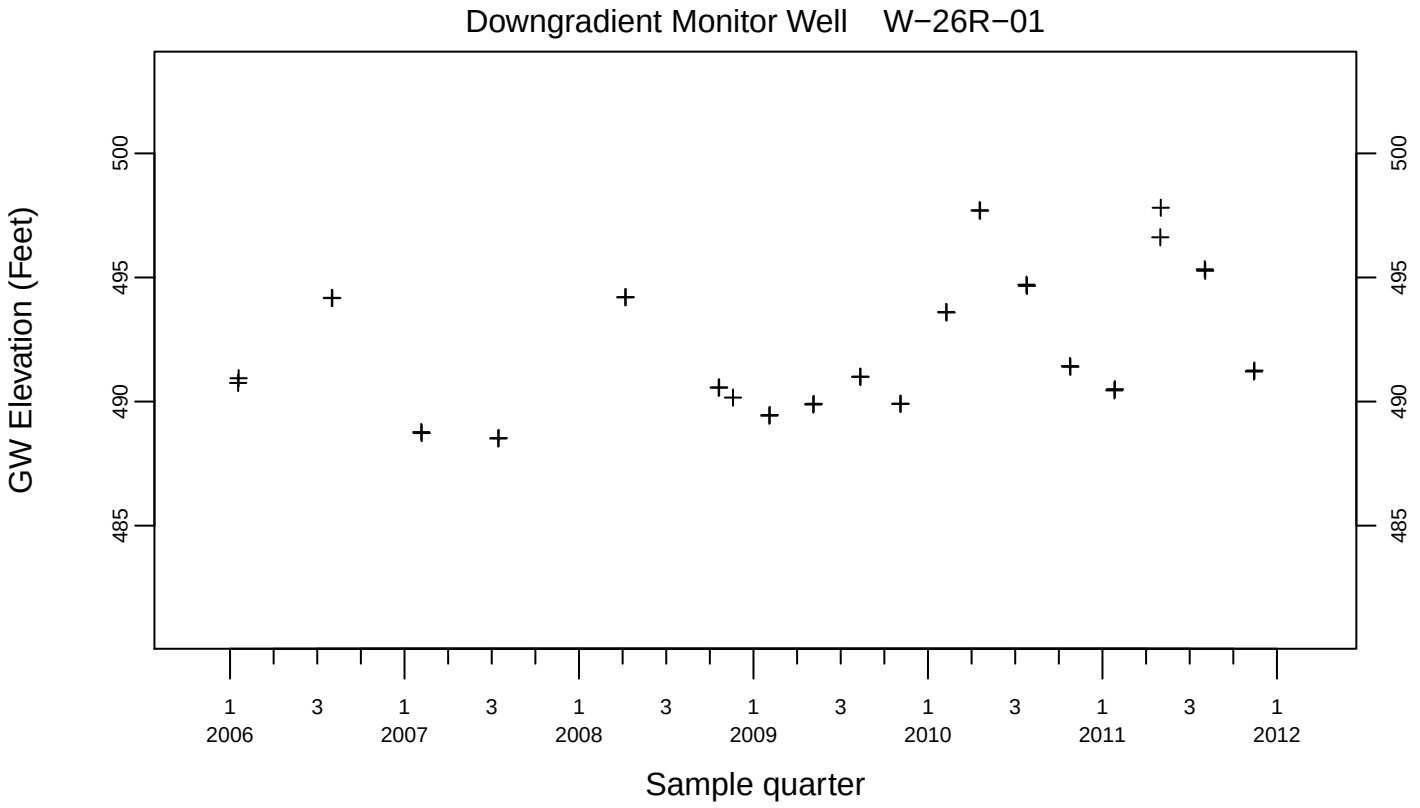


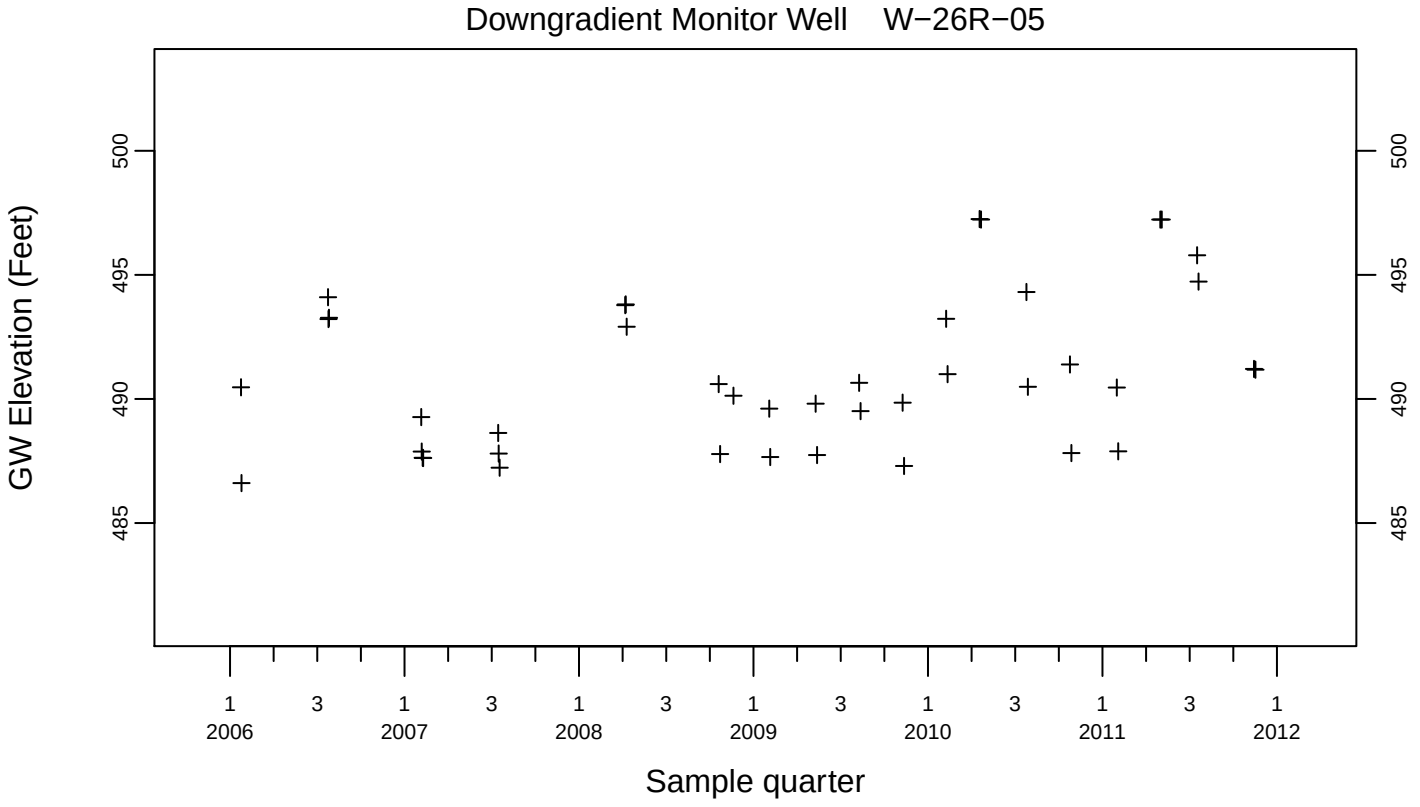
Sewage Ponds Ground Water
GW Elevation (Feet)



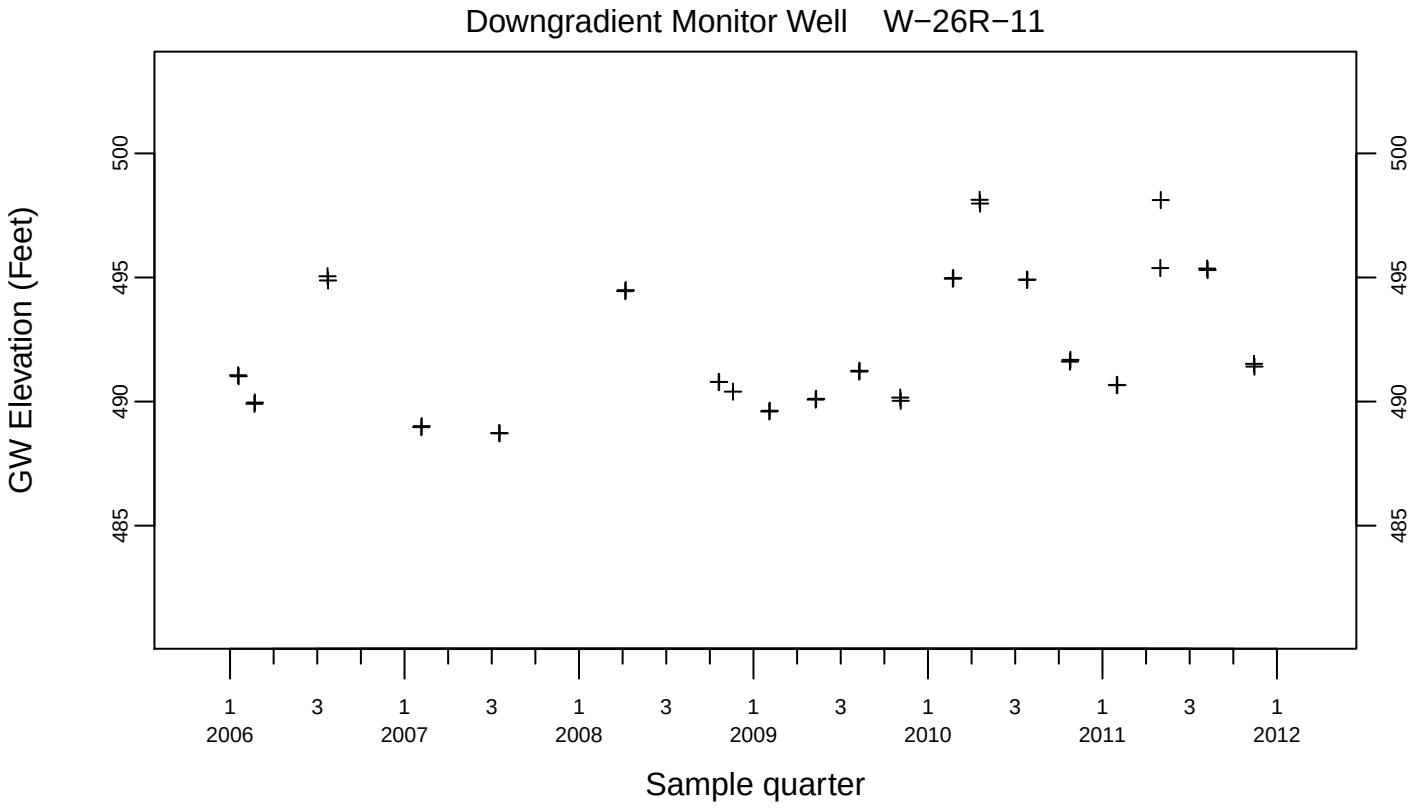


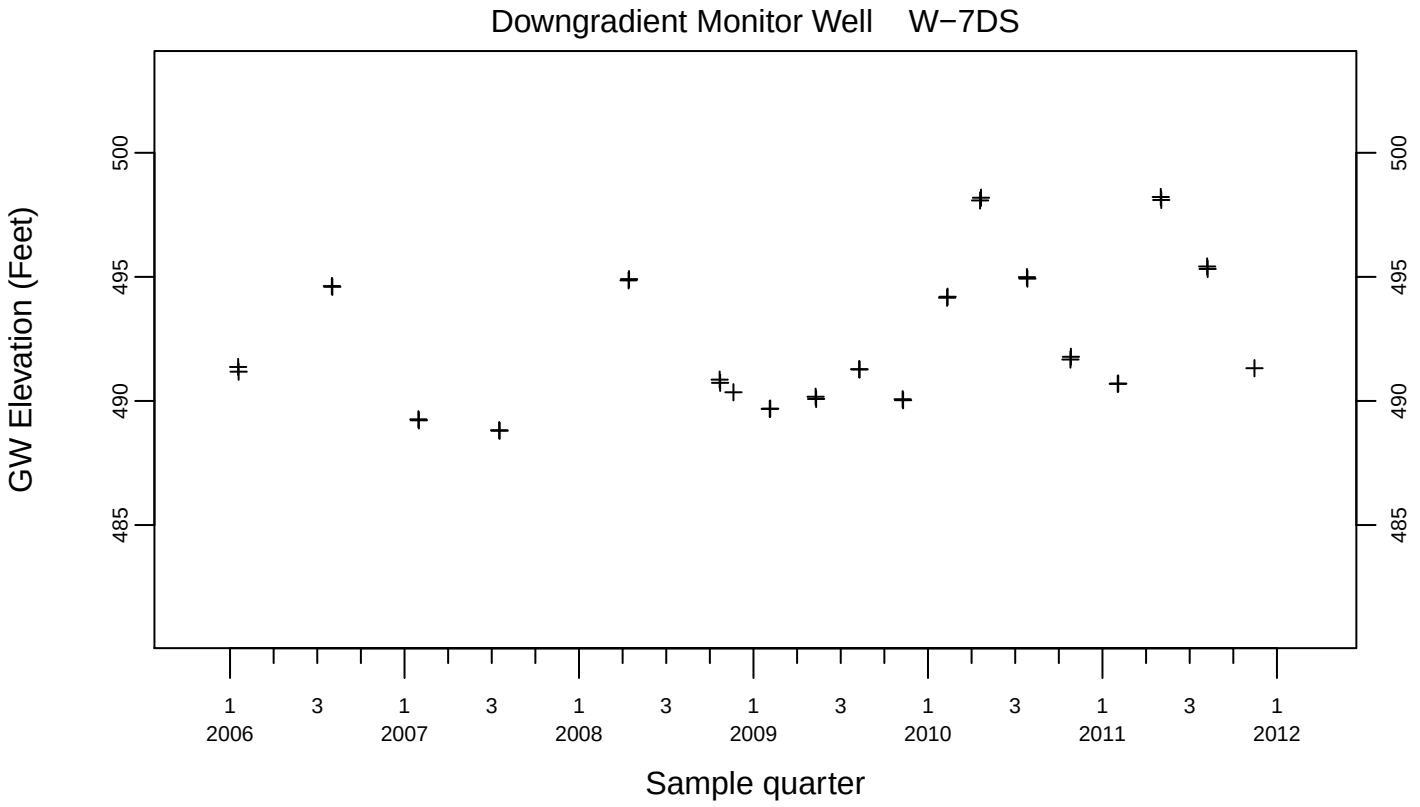
Sewage Ponds Ground Water
GW Elevation (Feet)

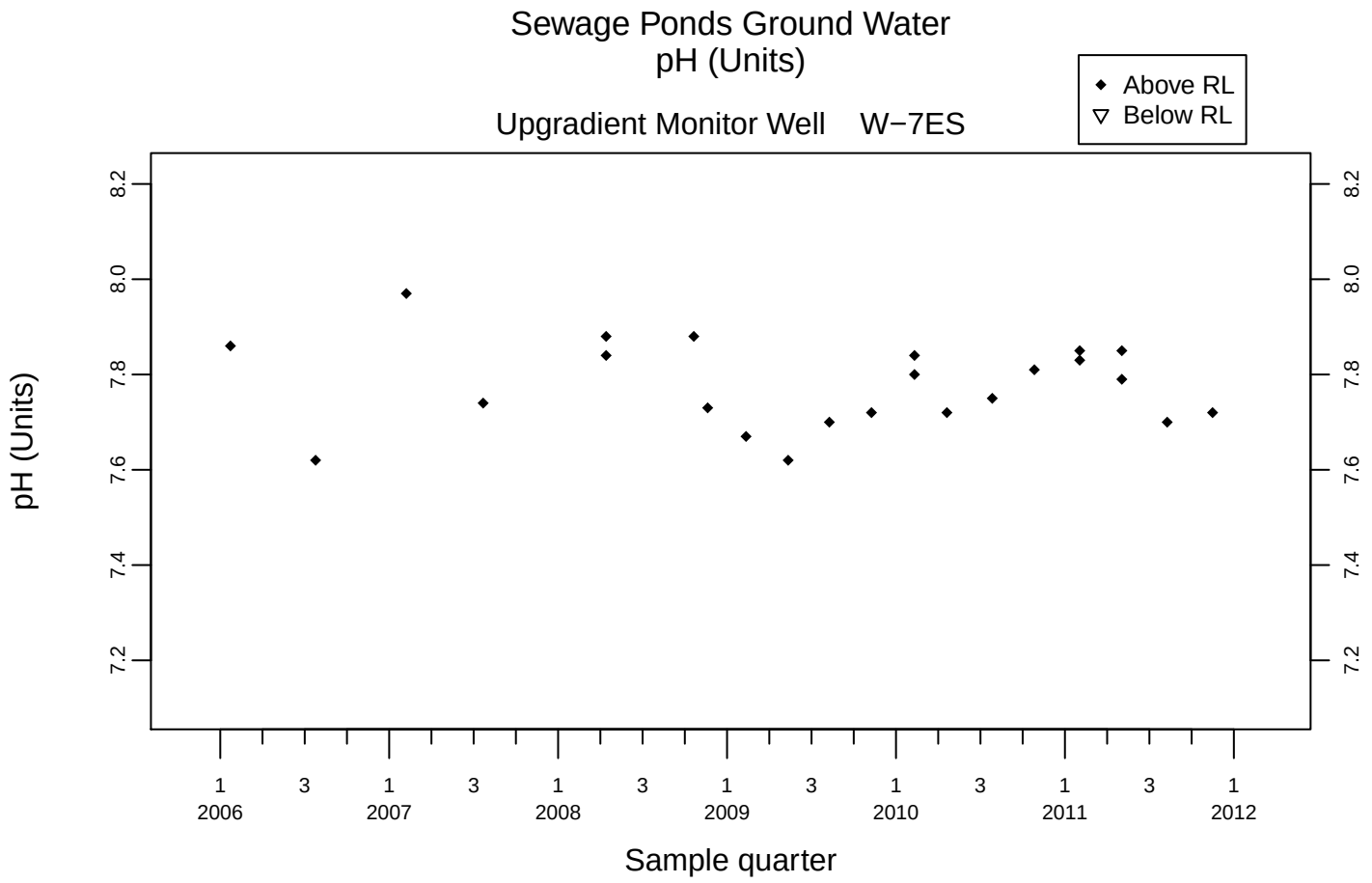


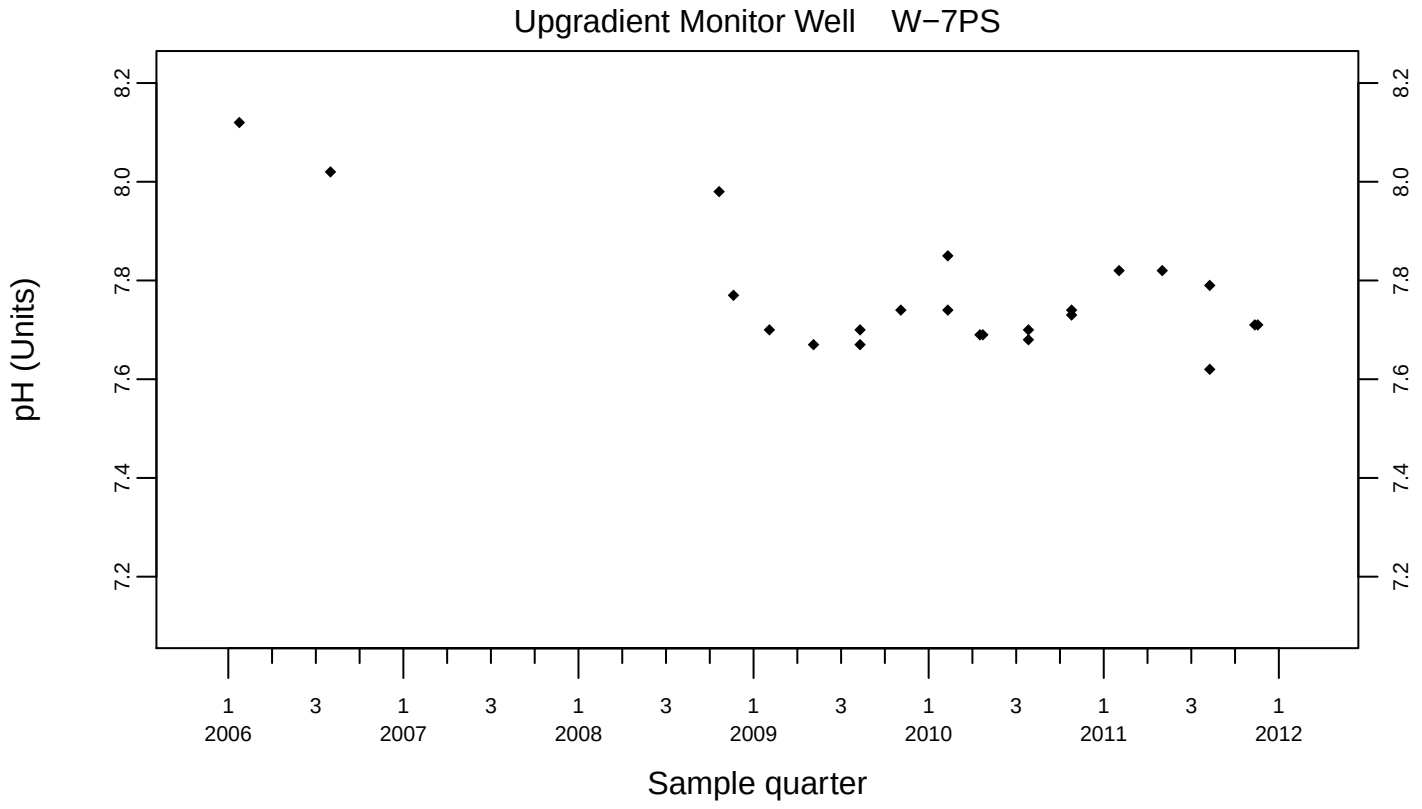


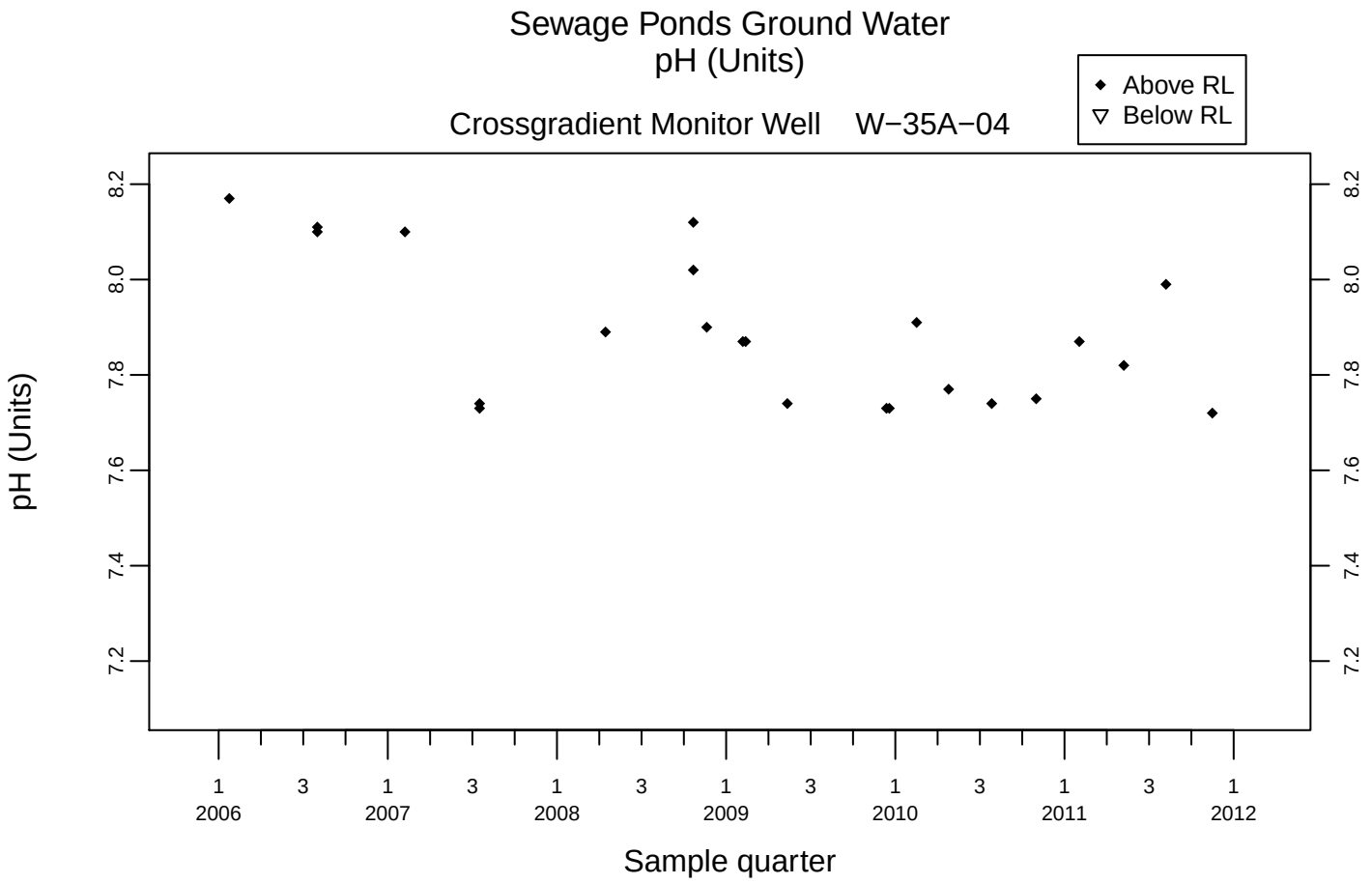
Sewage Ponds Ground Water
GW Elevation (Feet)

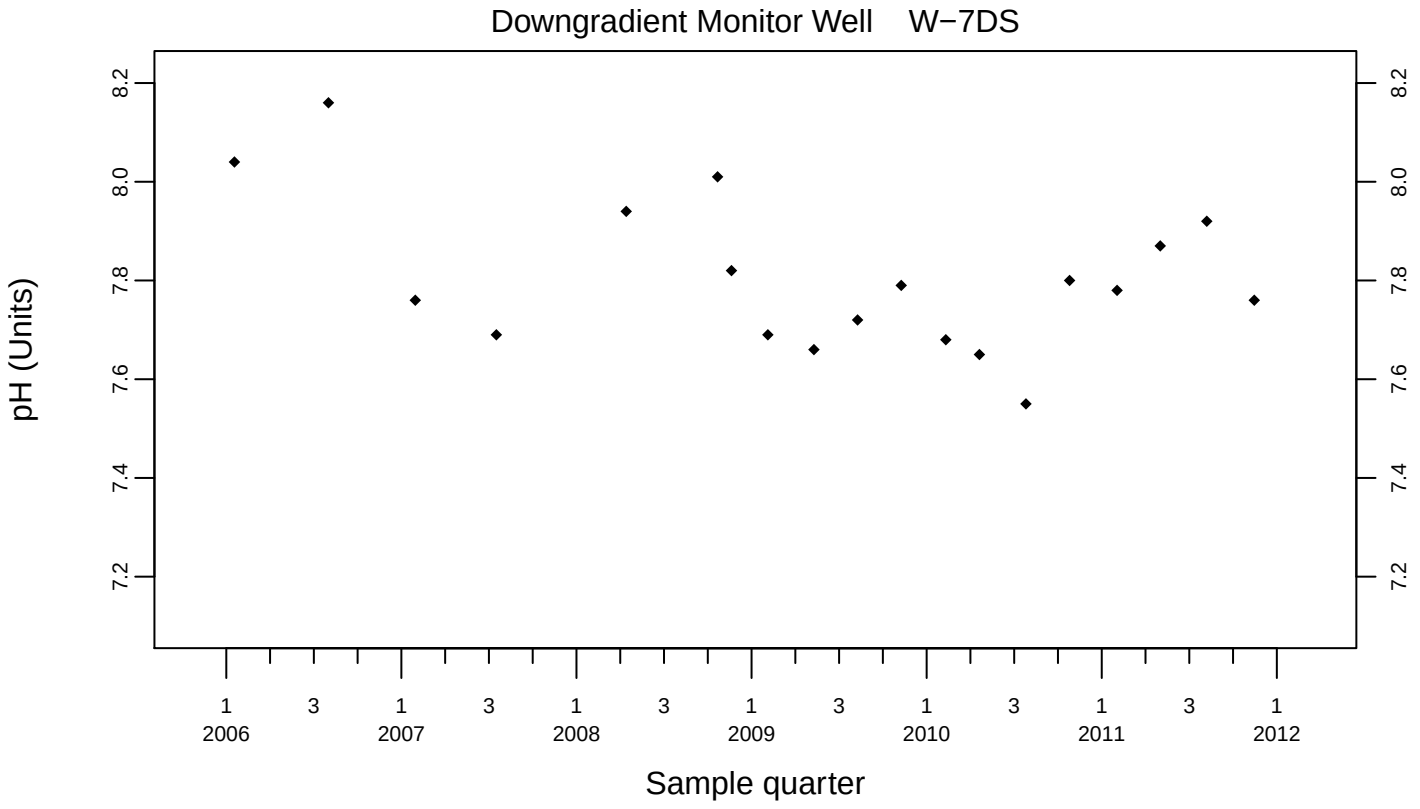


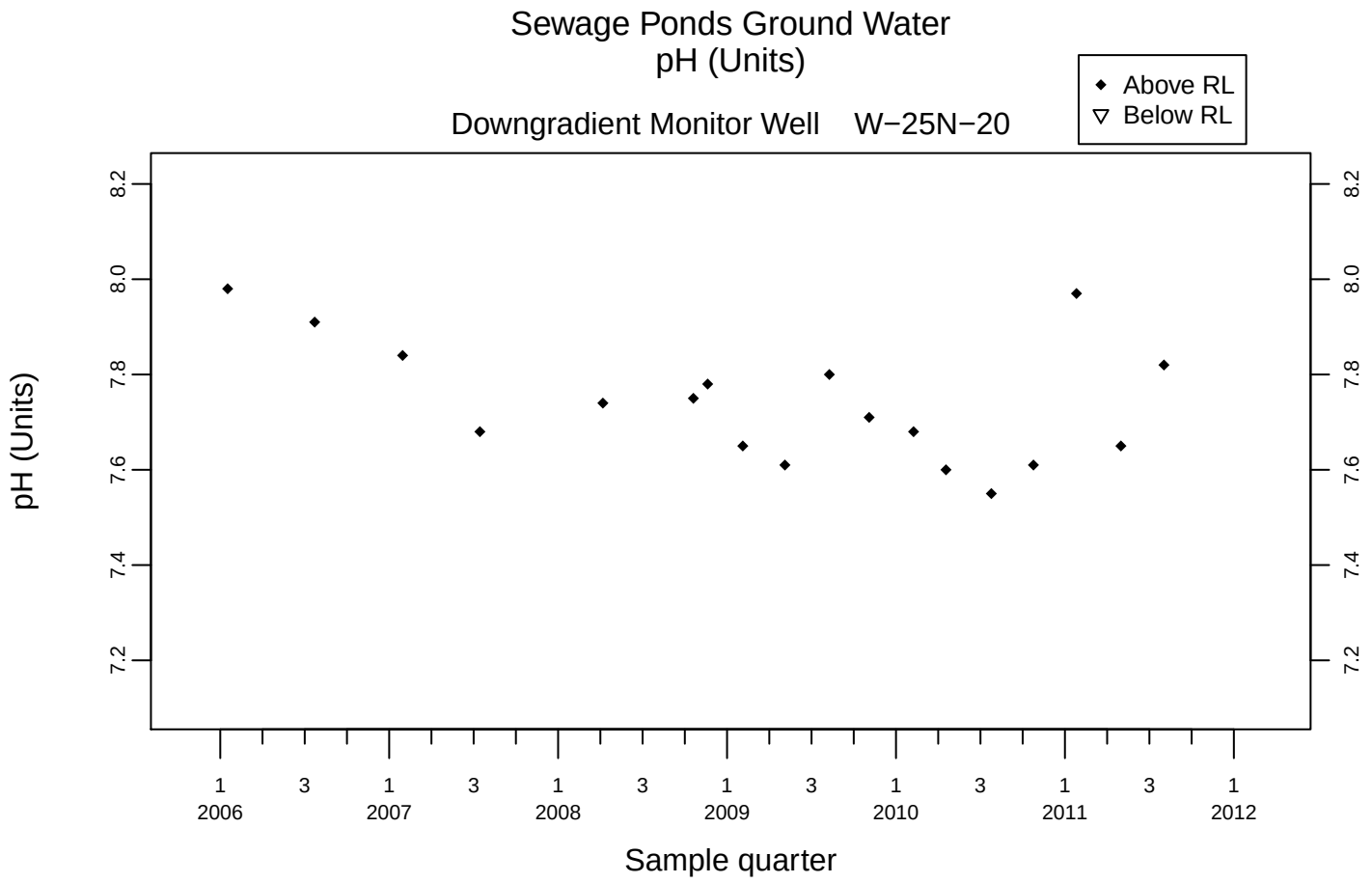


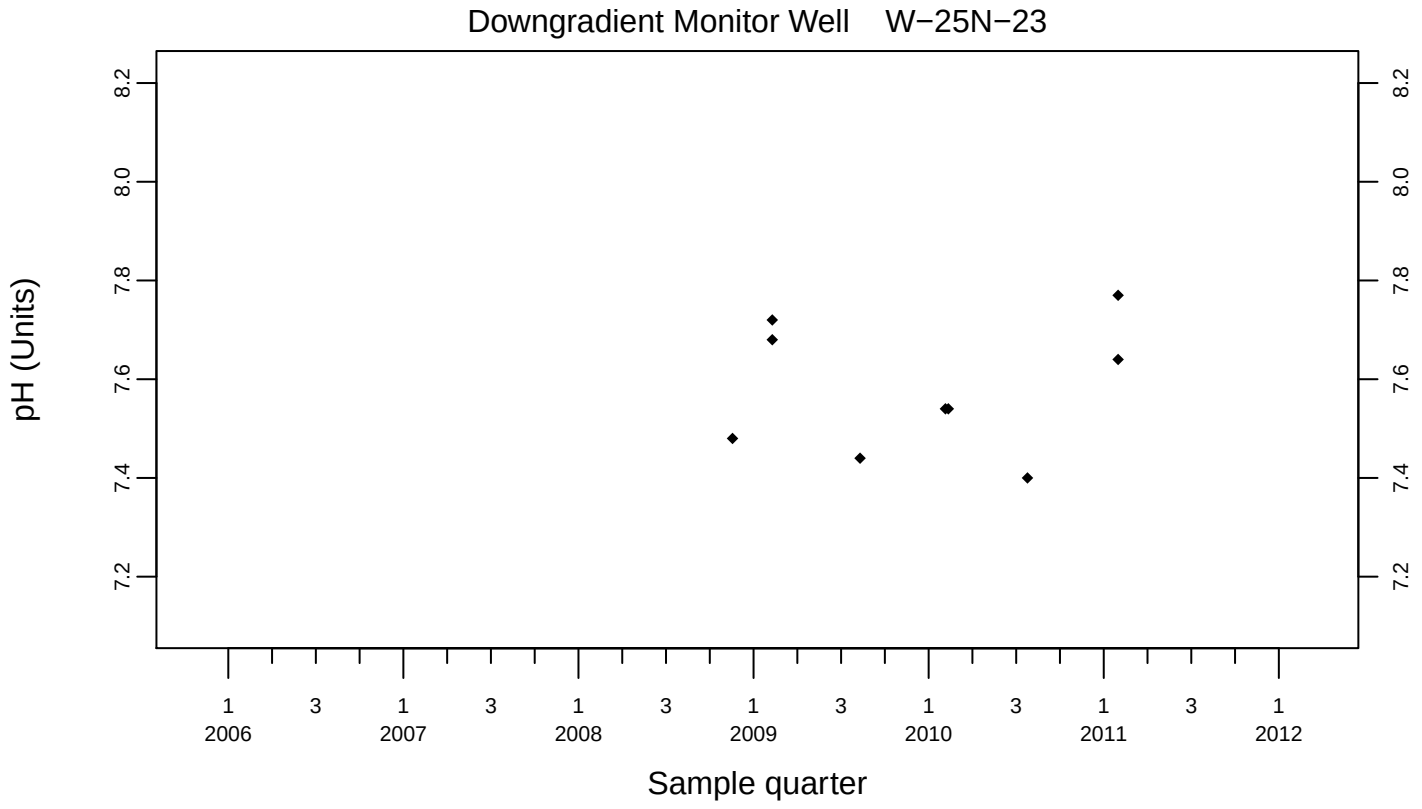

Sewage Ponds Ground Water
pH (Units)
Above RL
Below RL
Upgradient Monitor Well W−7ES
pH (Units)
8.2
8.0
7.8
7.6
7.4
7.2
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

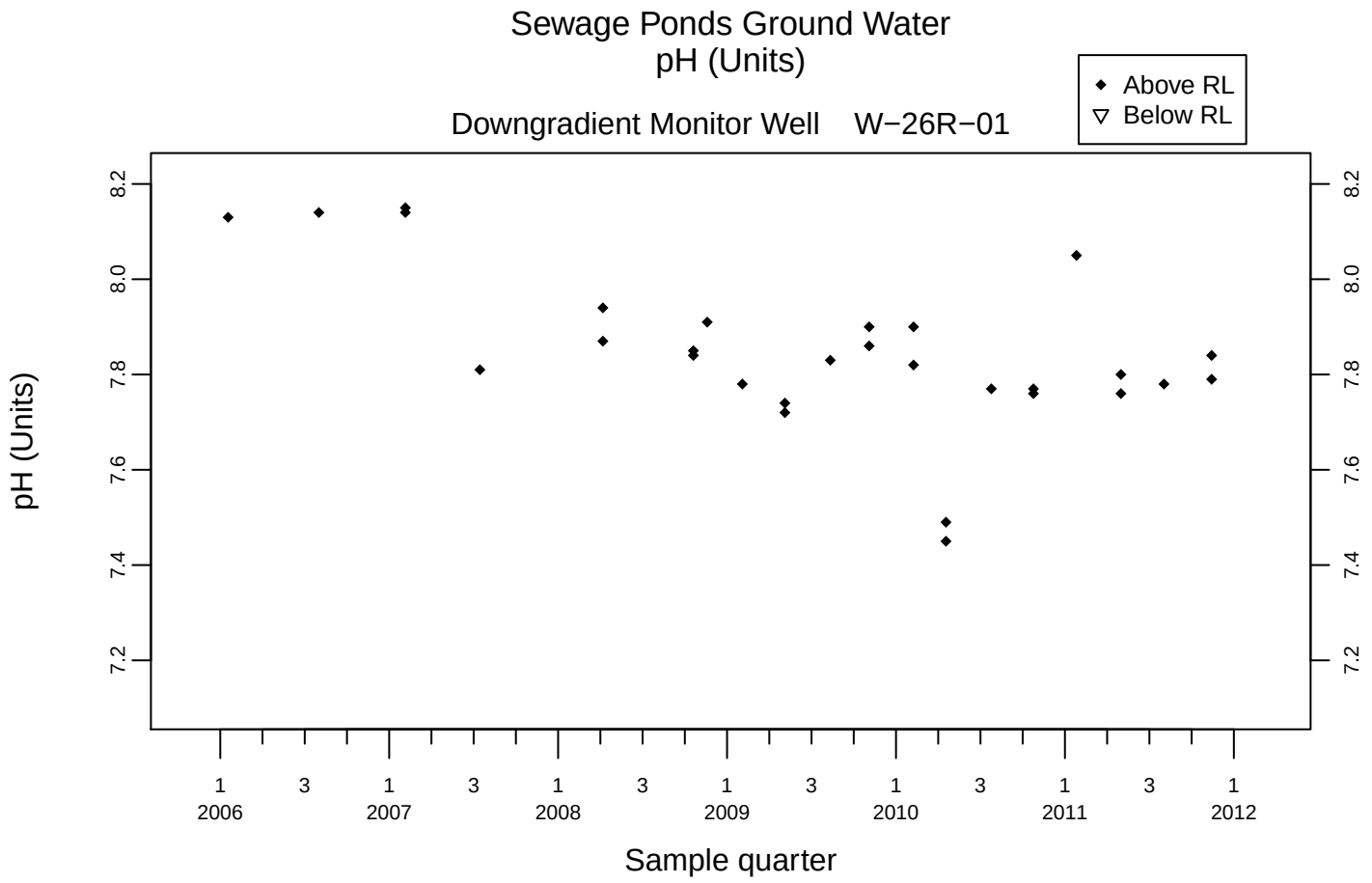

Upgradient Monitor Well W−7PS
pH (Units)
8.2
8.0
7.8
7.6
7.4
7.2
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

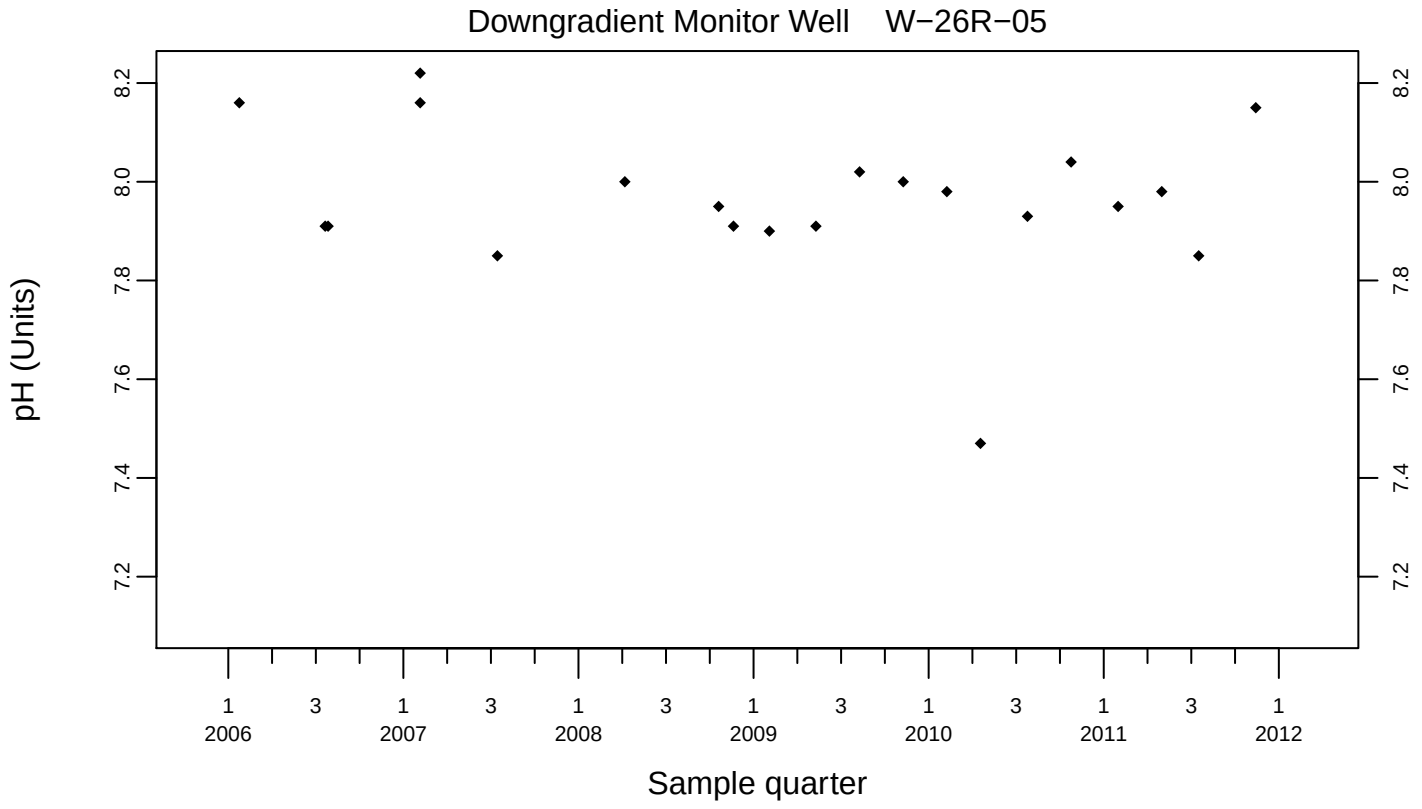

Sewage Ponds Ground Water
pH (Units)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
pH (Units)
8.2
8.0
7.8
7.6
7.4
7.2
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

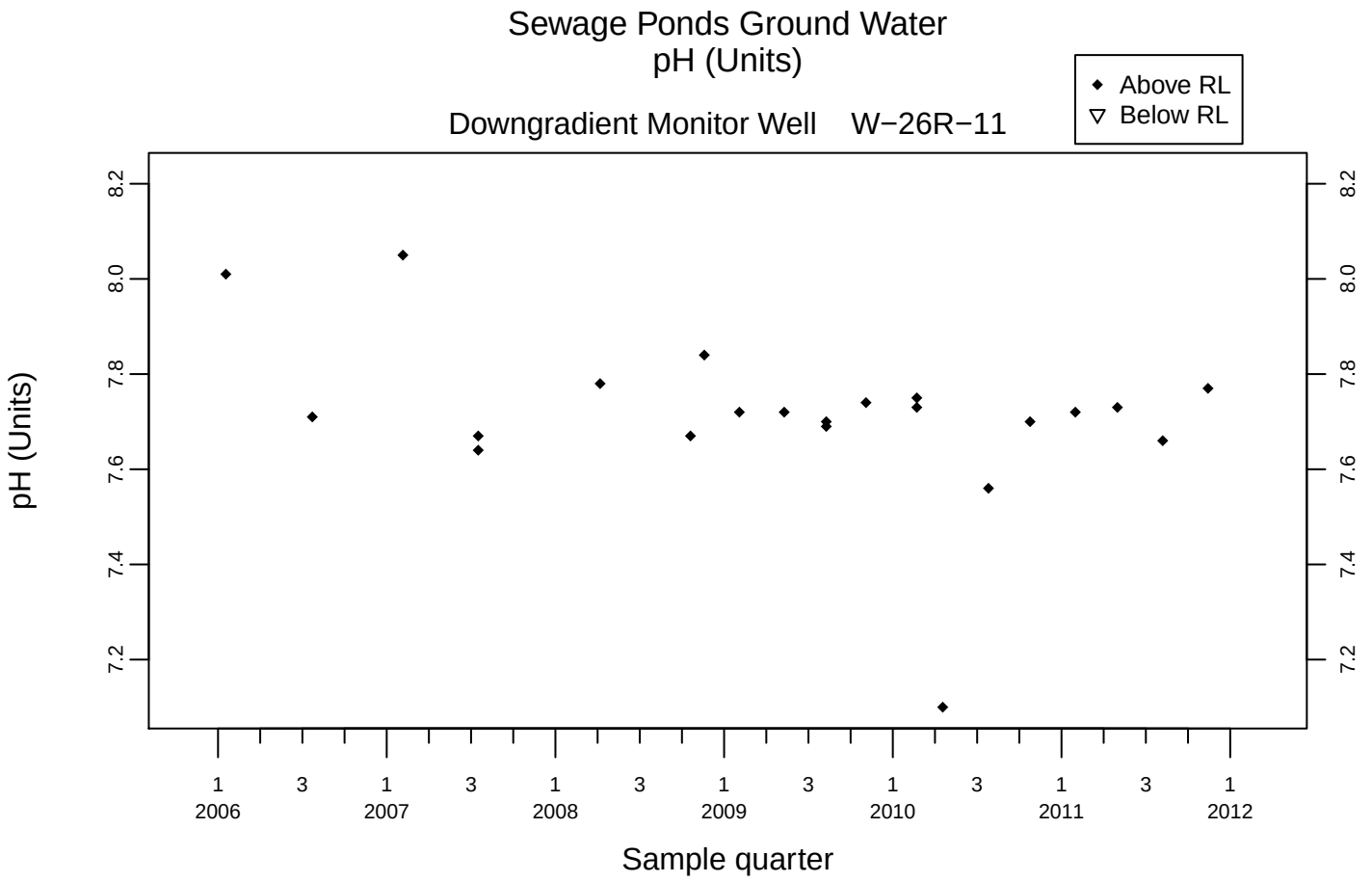

Downgradient Monitor Well W−7DS
pH (Units)
8.2
8.0
7.8
7.6
7.4
7.2
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

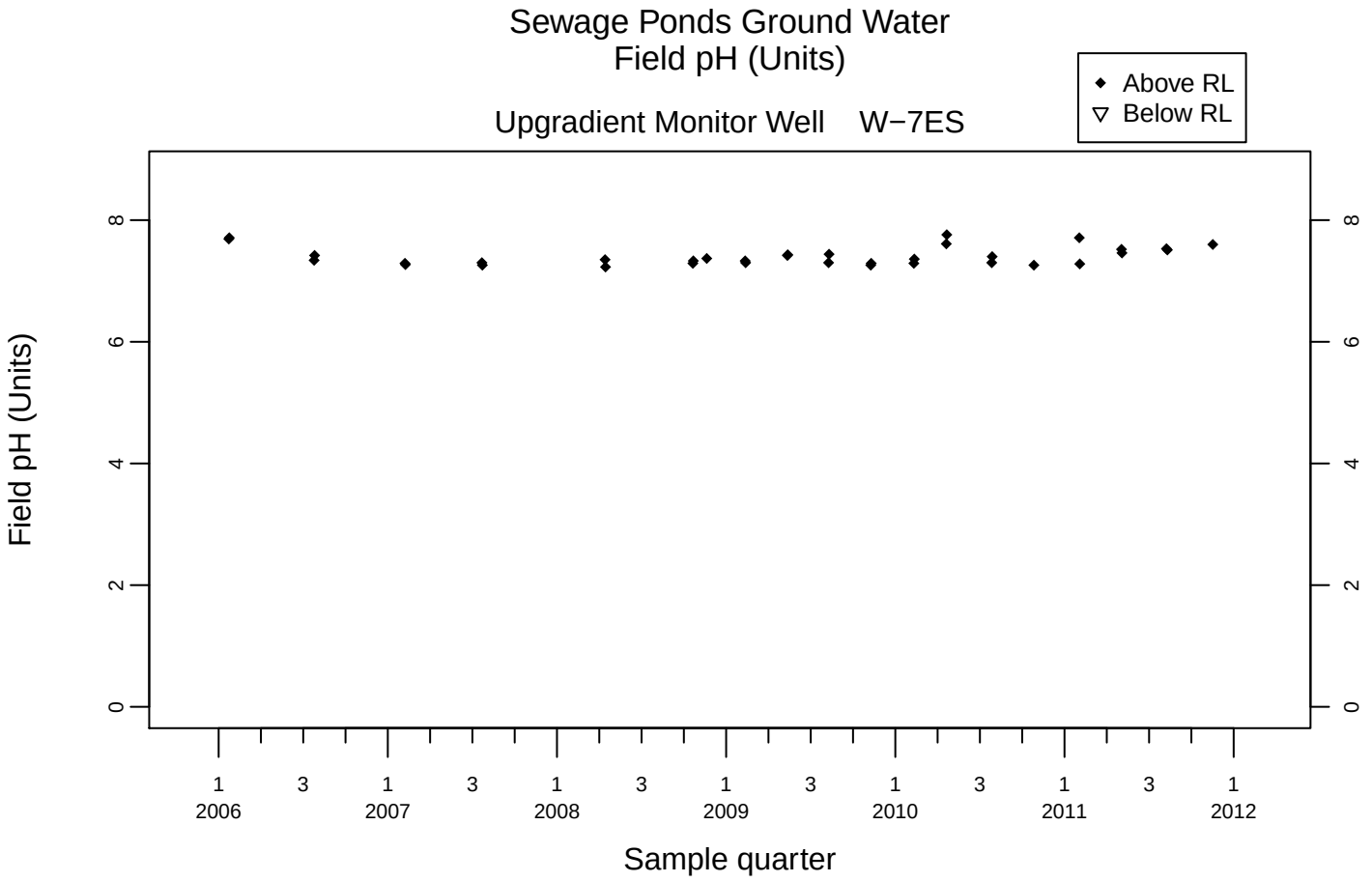

Sewage Ponds Ground Water
pH (Units)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
pH (Units)
8.2
8.0
7.8
7.6
7.4
7.2
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

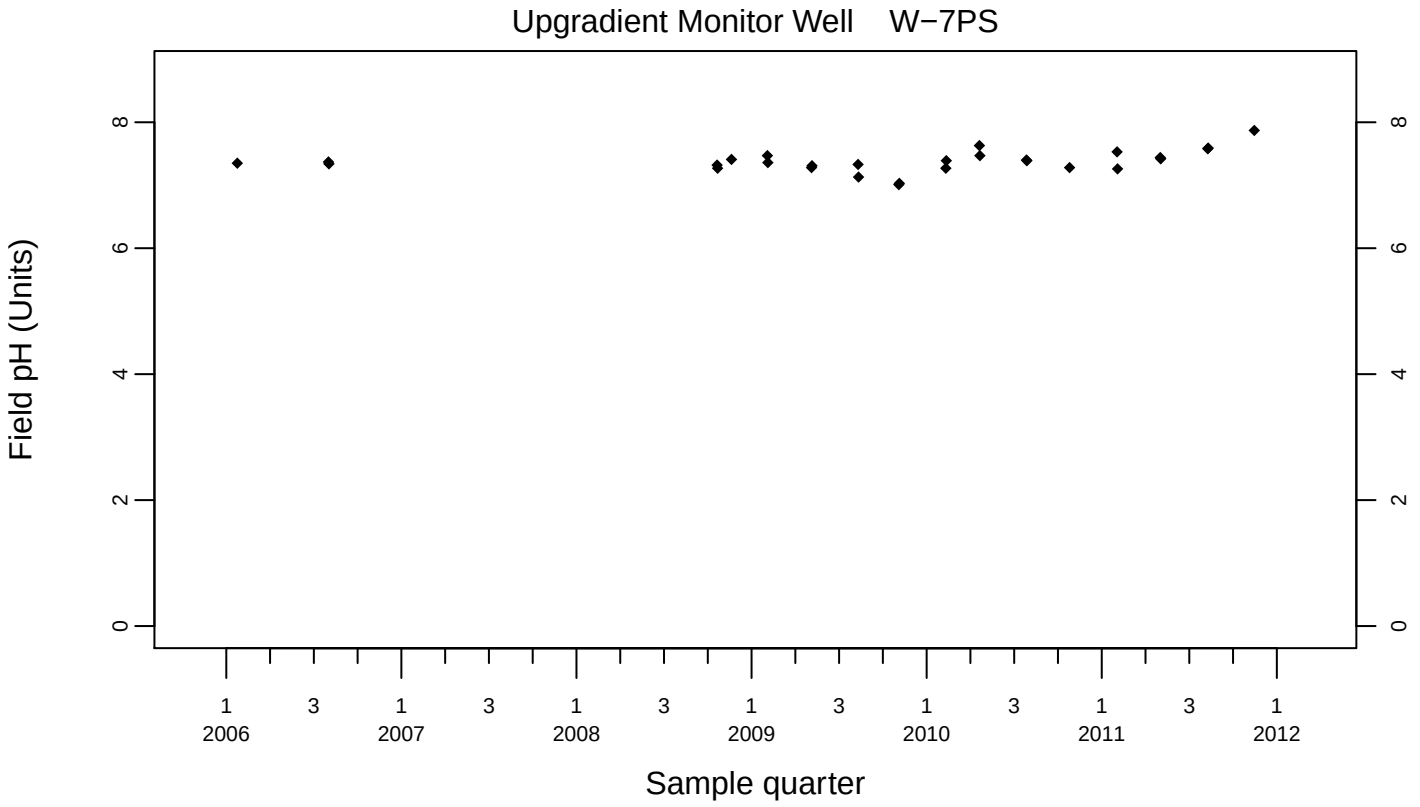

Downgradient Monitor Well W−25N−23
pH (Units)
8.2
8.0
7.8
7.6
7.4
7.2
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

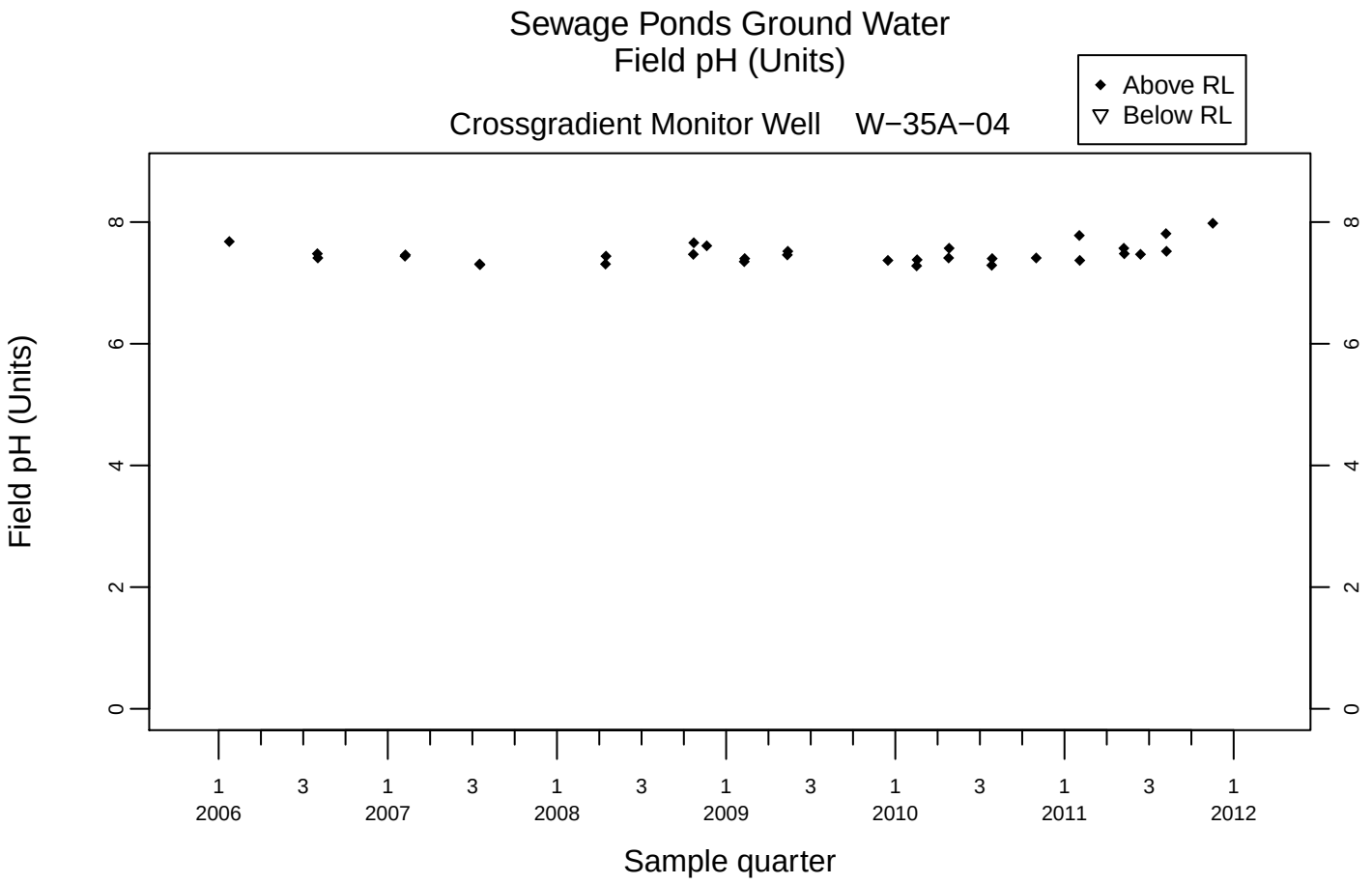

Sewage Ponds Ground Water
pH (Units)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
pH (Units)
8.2
8.0
7.8
7.6
7.4
7.2
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

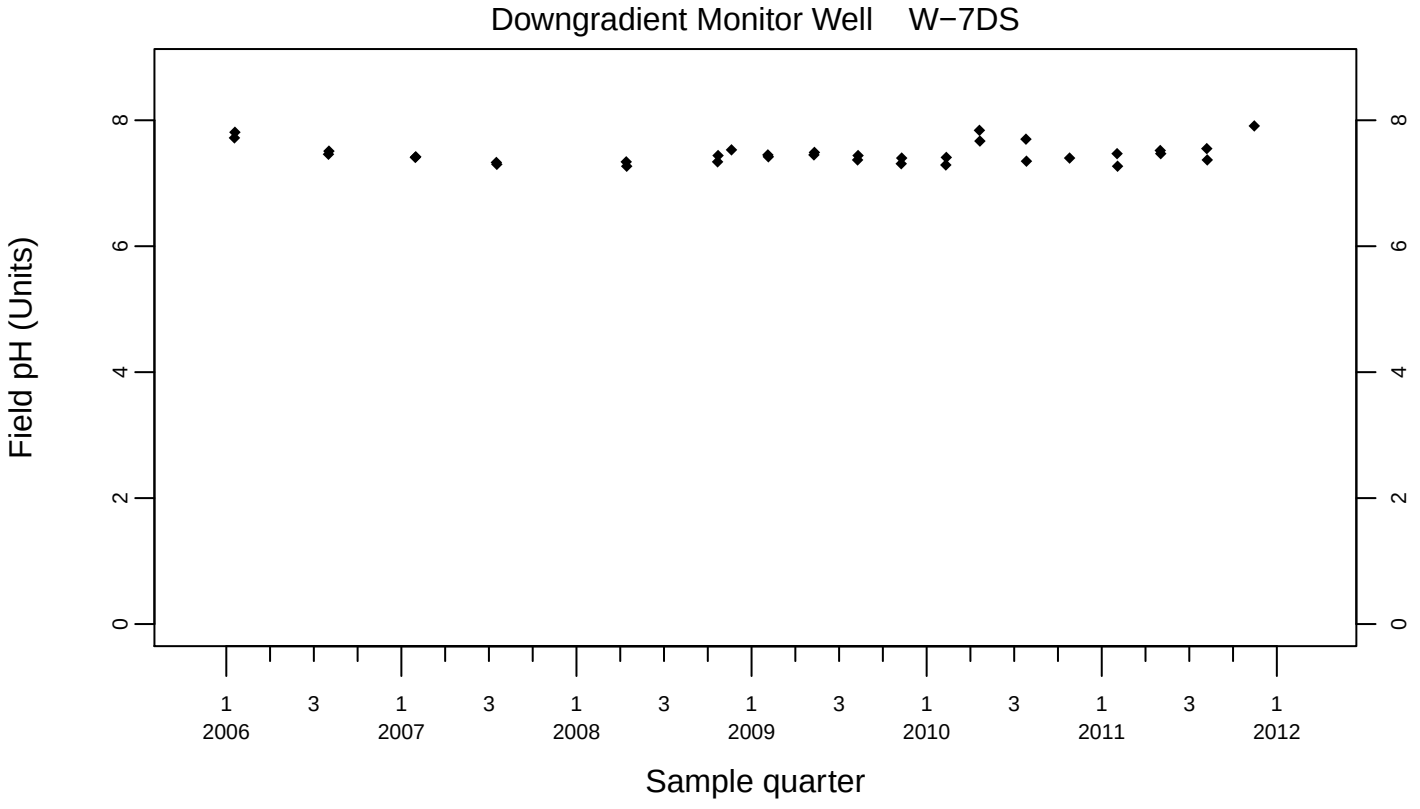

Downgradient Monitor Well W−26R−05
pH (Units)
8.2
8.0
7.8
7.6
7.4
7.2
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

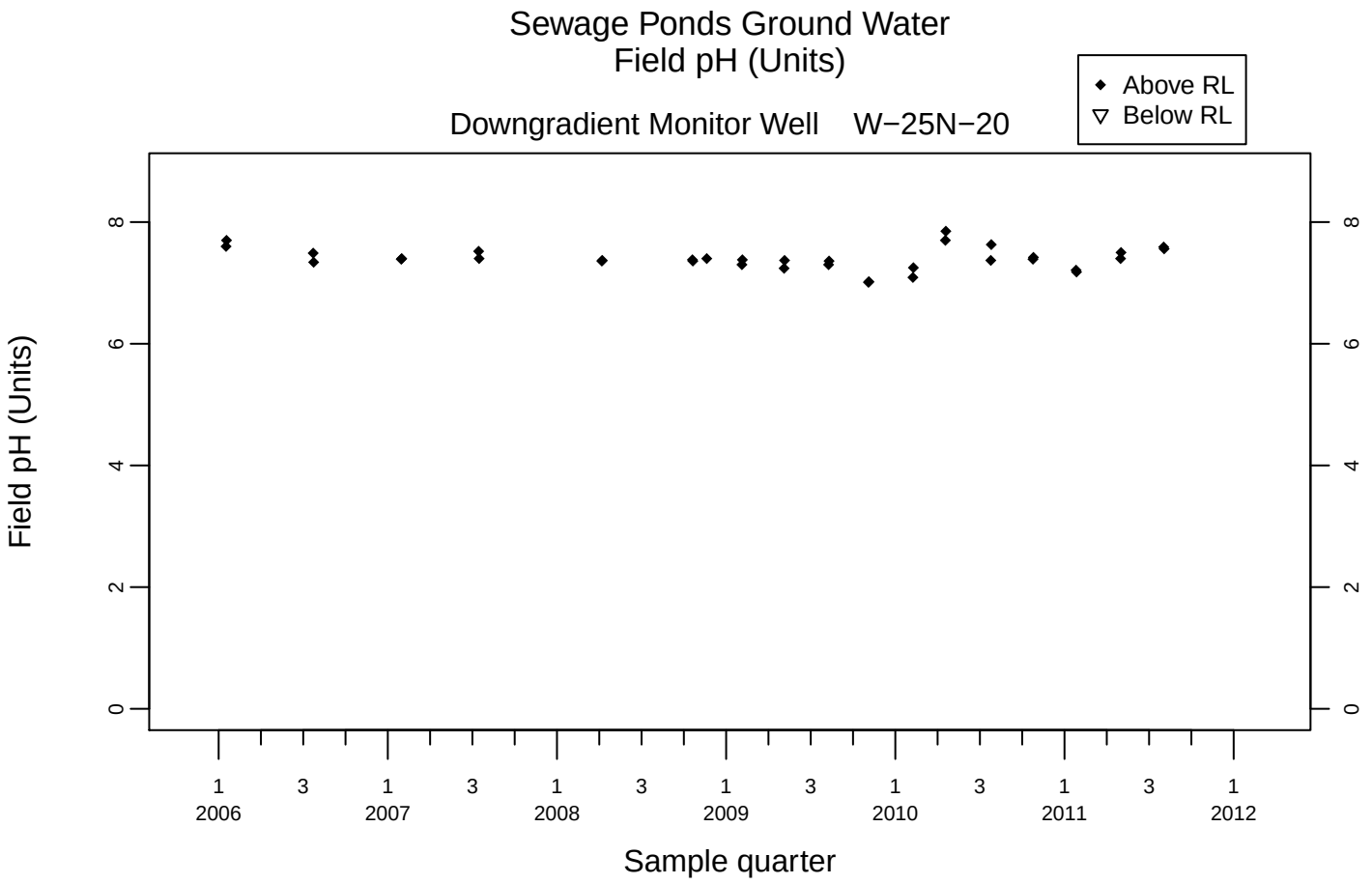

Sewage Ponds Ground Water
pH (Units)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
pH (Units)
8.2
8.0
7.8
7.6
7.4
7.2
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

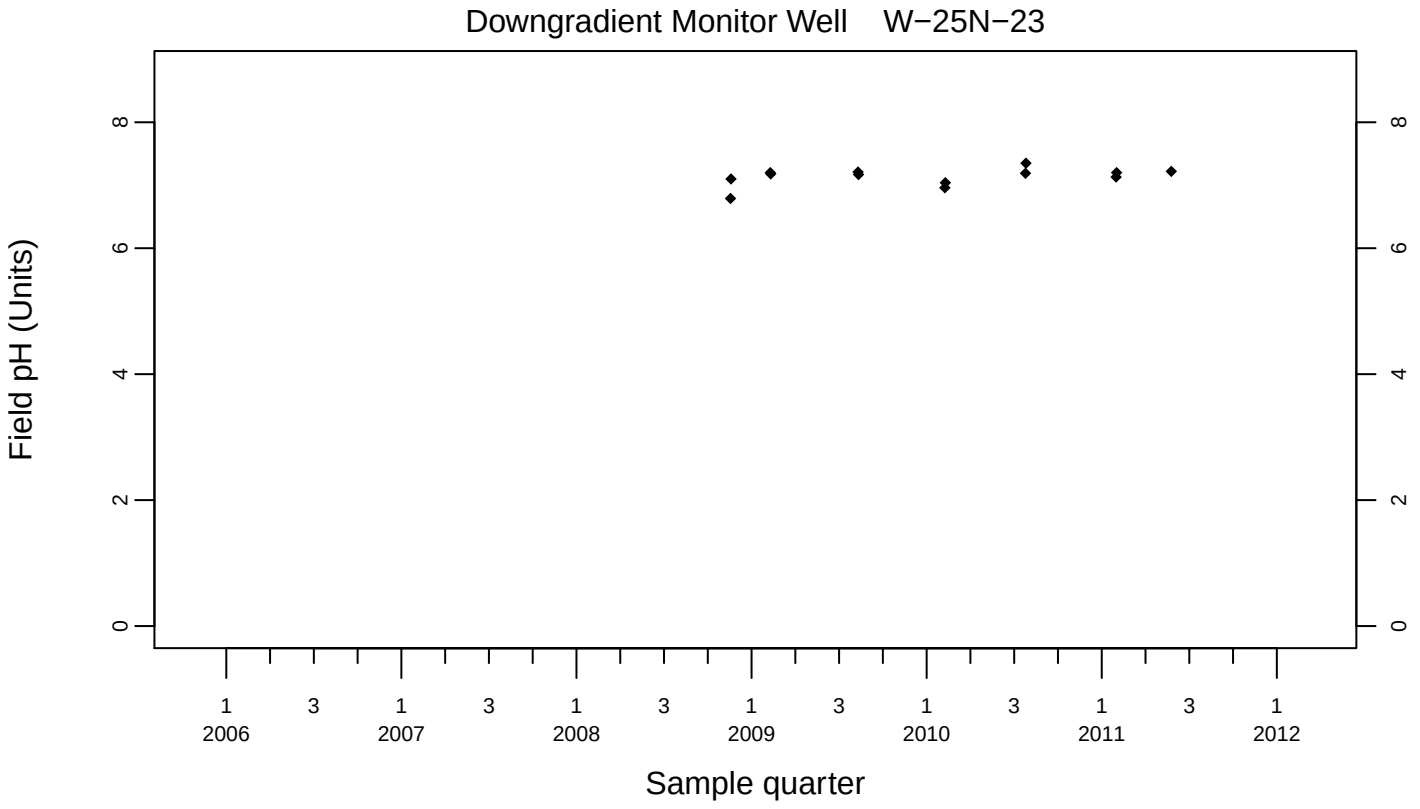

Sewage Ponds Ground Water
Field pH (Units)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Field pH (Units)
0
2
4
6
8
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

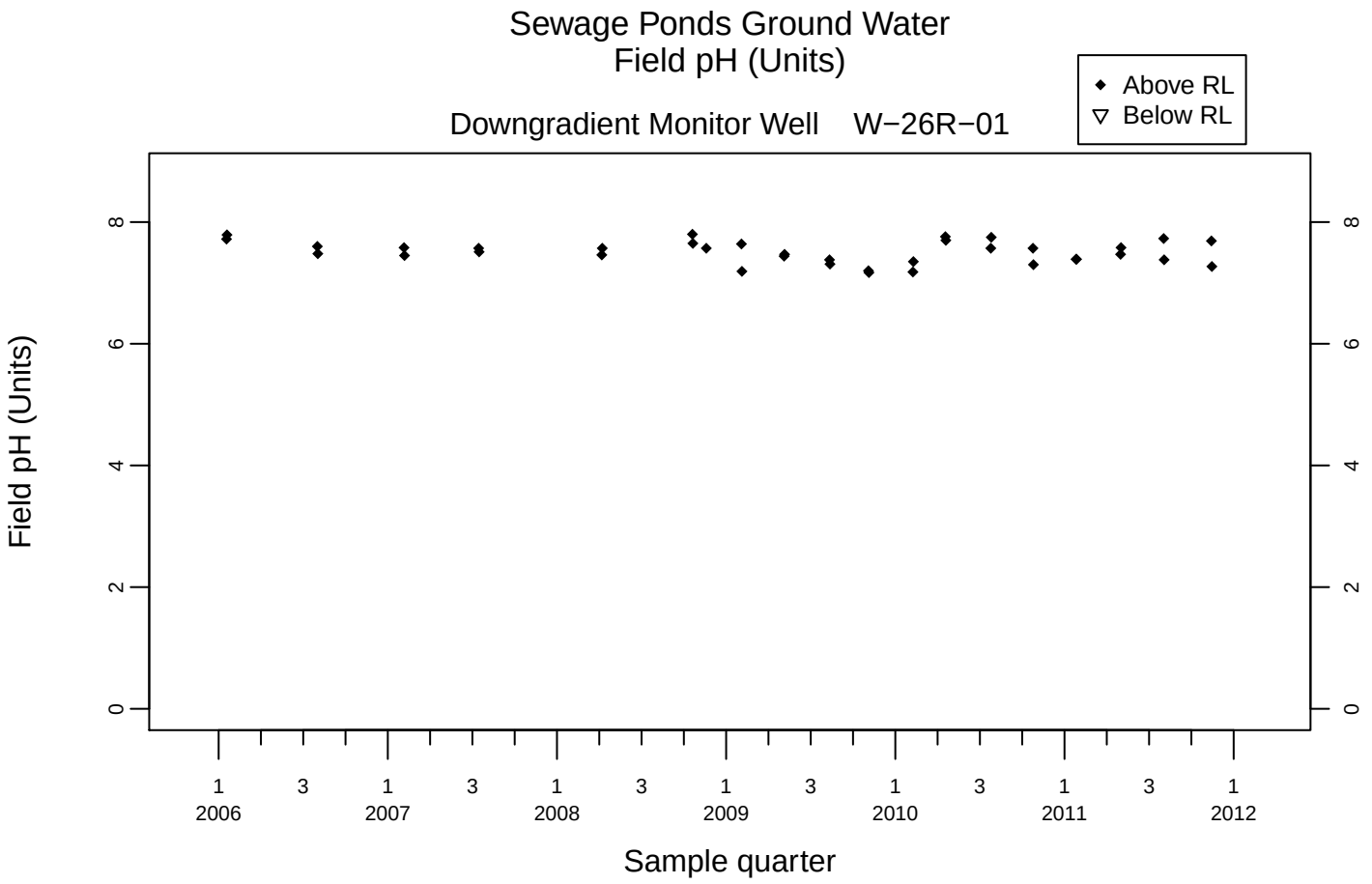

Upgradient Monitor Well W−7PS
Field pH (Units)
0
2
4
6
8
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

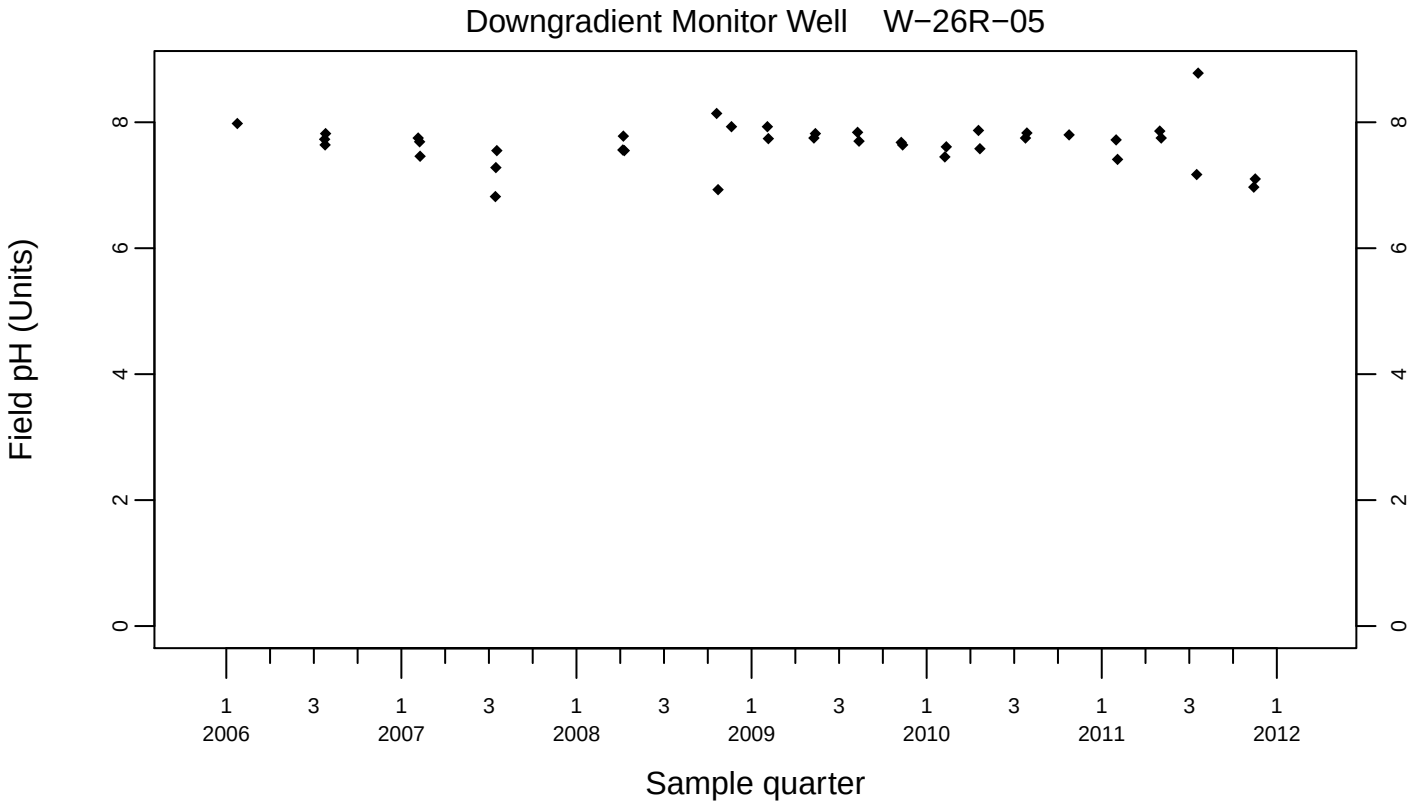

Sewage Ponds Ground Water
Field pH (Units)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Field pH (Units)
0
2
4
6
8
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

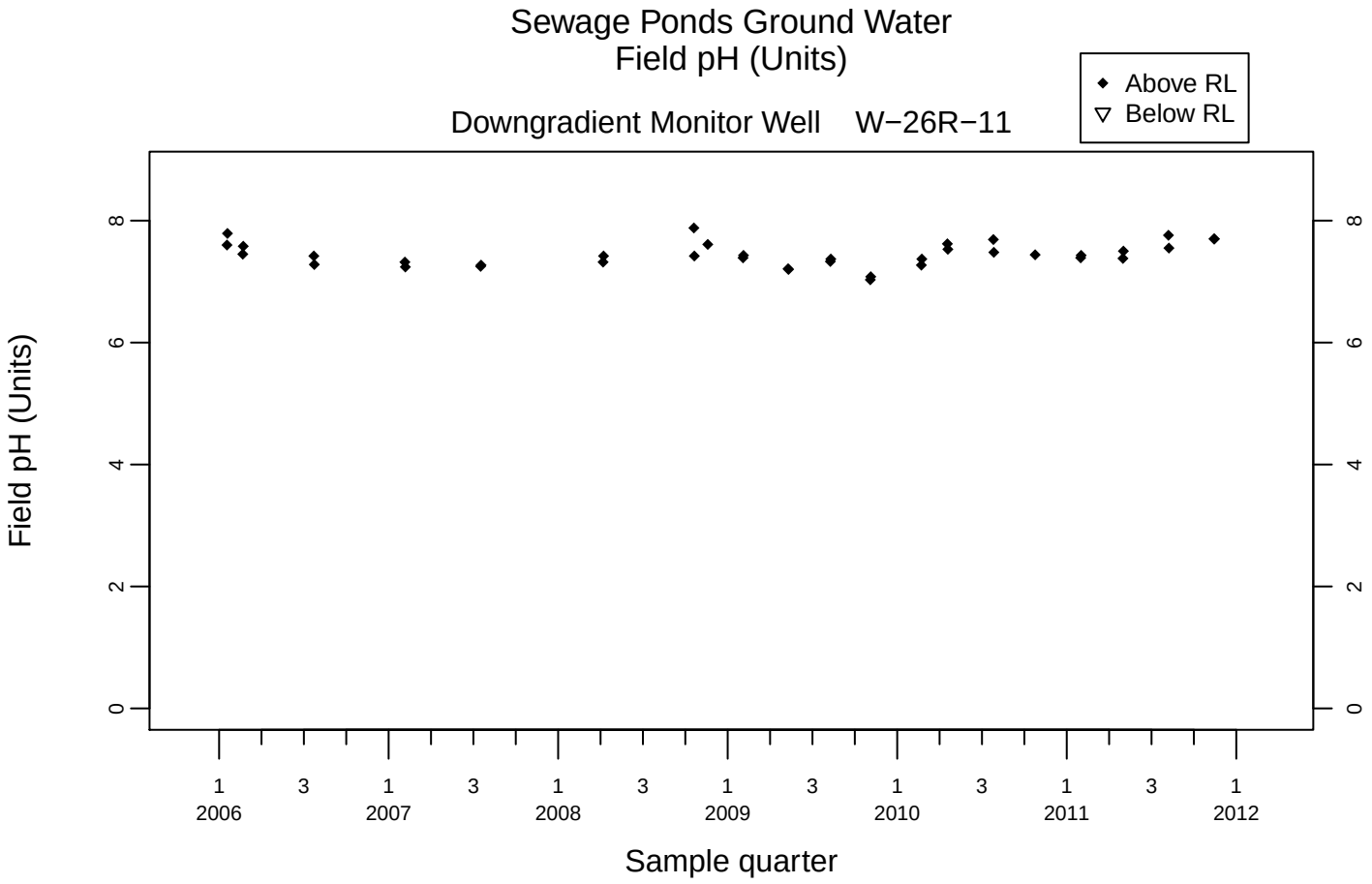

Downgradient Monitor Well W−7DS
Field pH (Units)
0
2
4
6
8
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

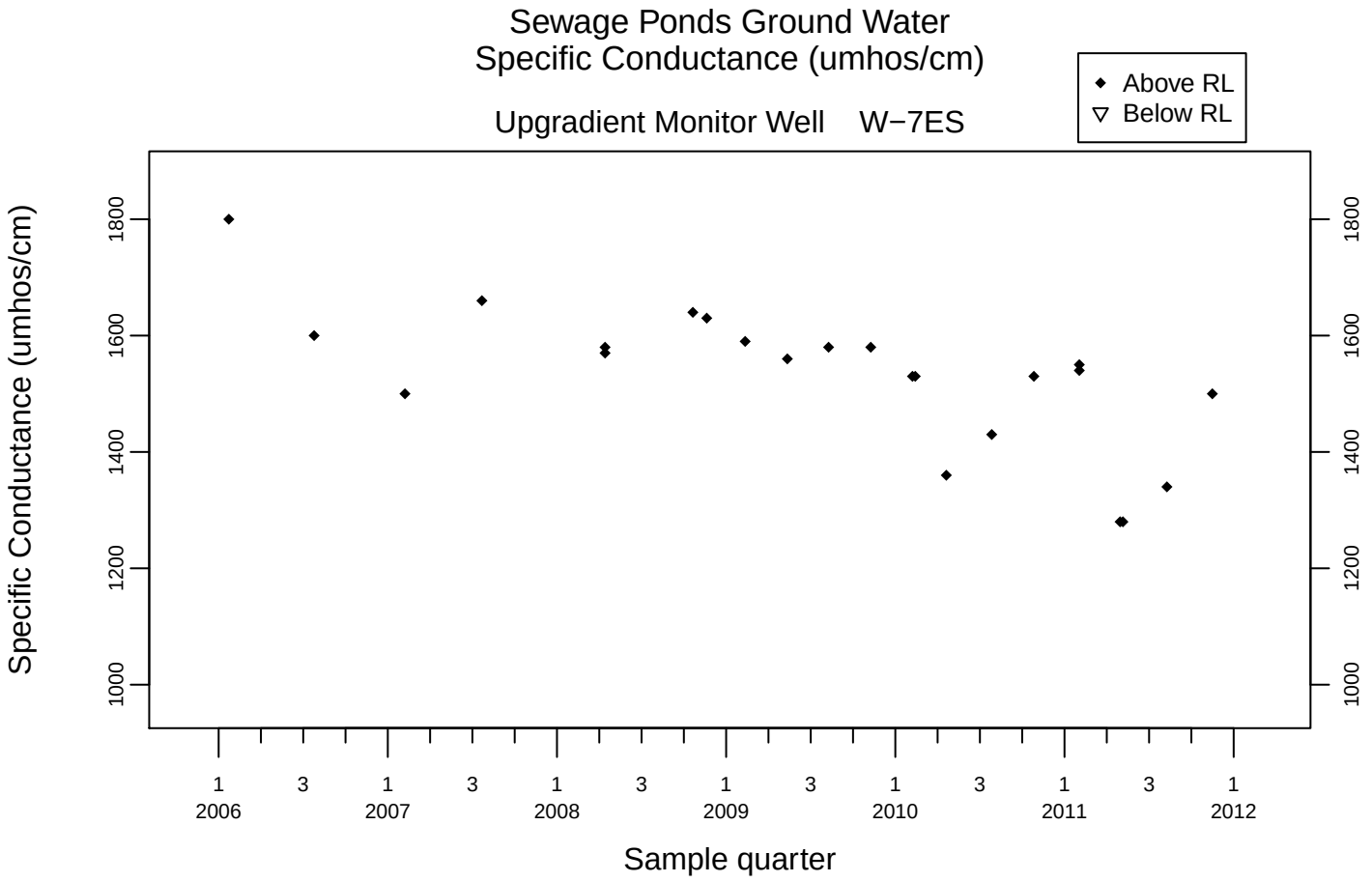

Sewage Ponds Ground Water
Field pH (Units)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Field pH (Units)
0
2
4
6
8
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

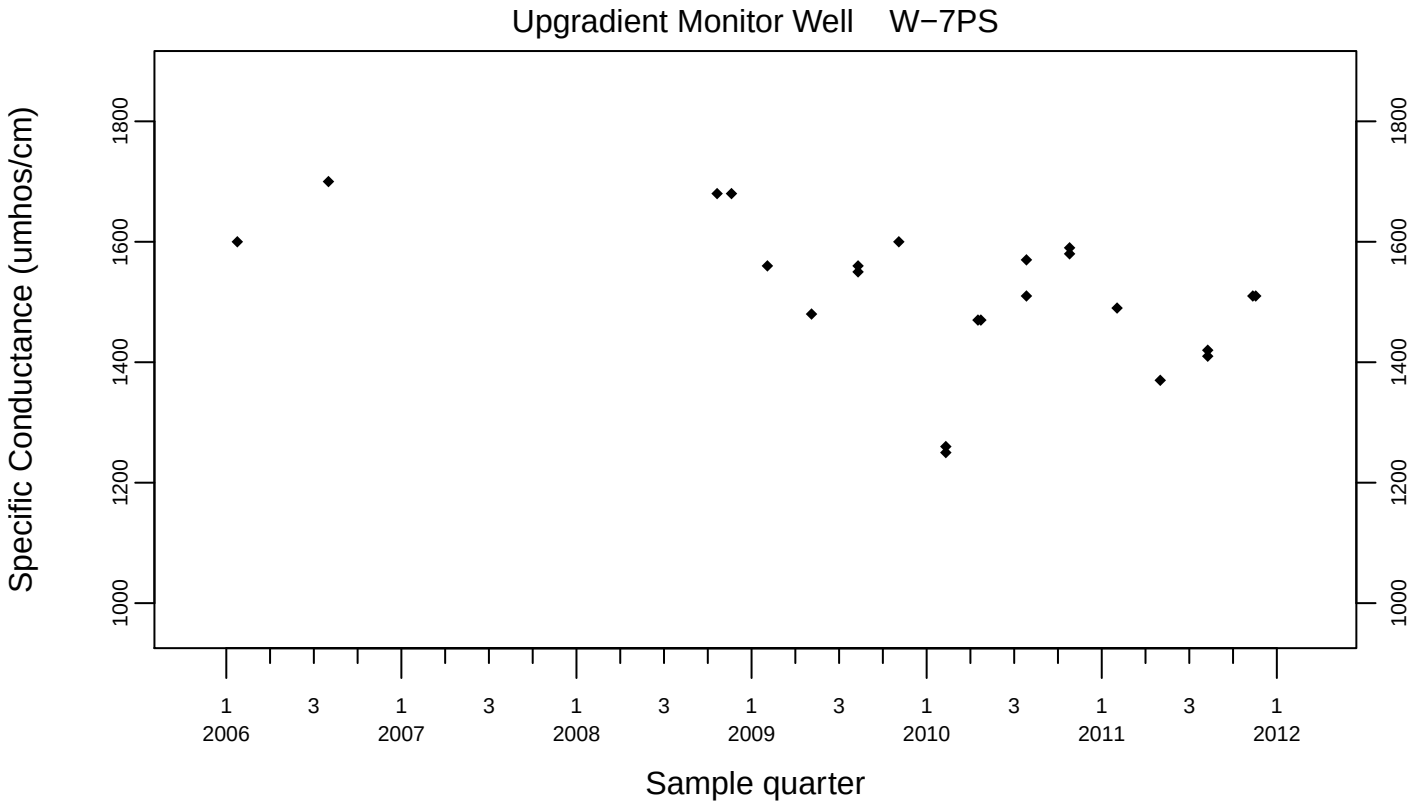

Downgradient Monitor Well W−25N−23
Field pH (Units)
0
2
4
6
8
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

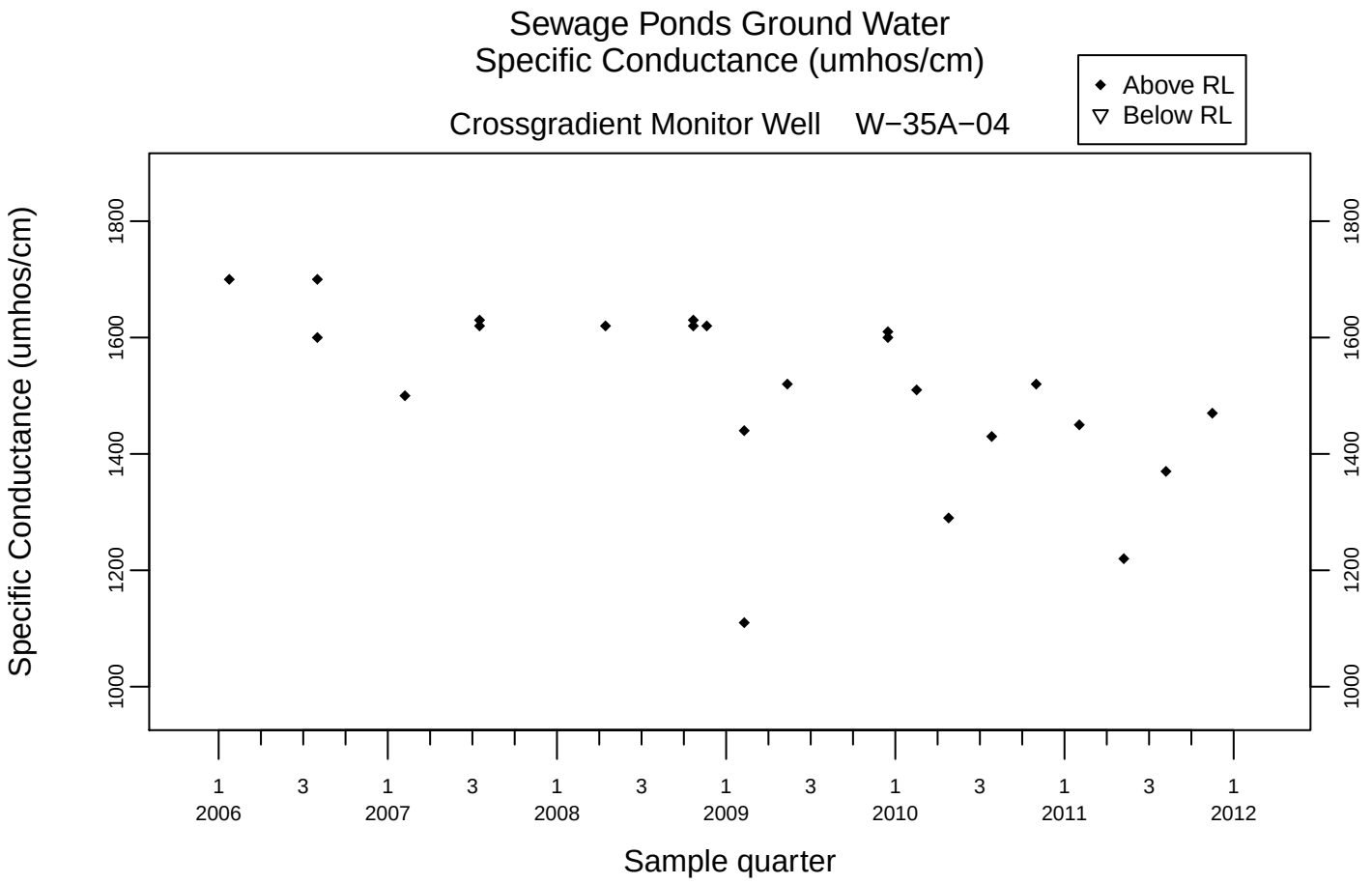

Sewage Ponds Ground Water
Field pH (Units)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Field pH (Units)
0
2
4
6
8
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

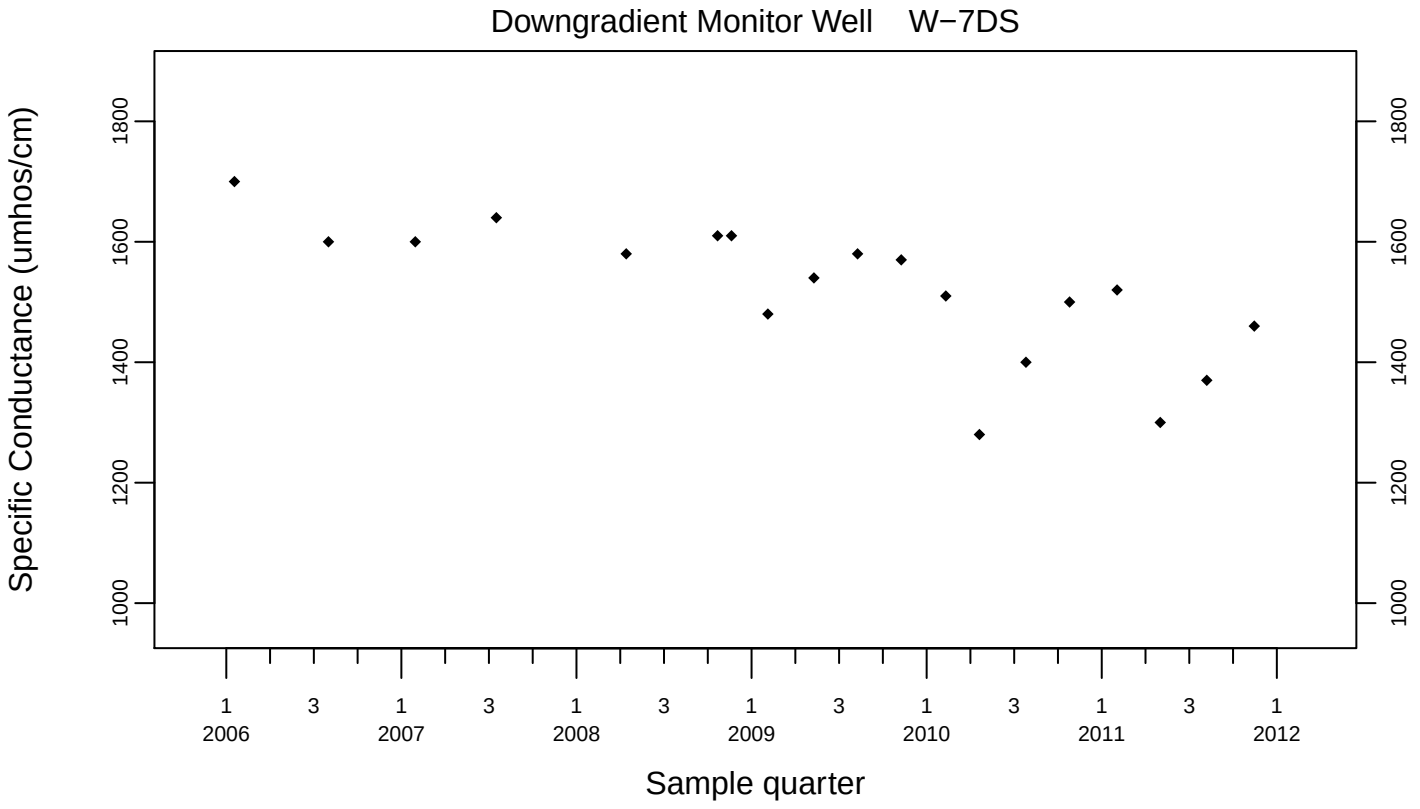

Downgradient Monitor Well W−26R−05
Field pH (Units)
0
2
4
6
8
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

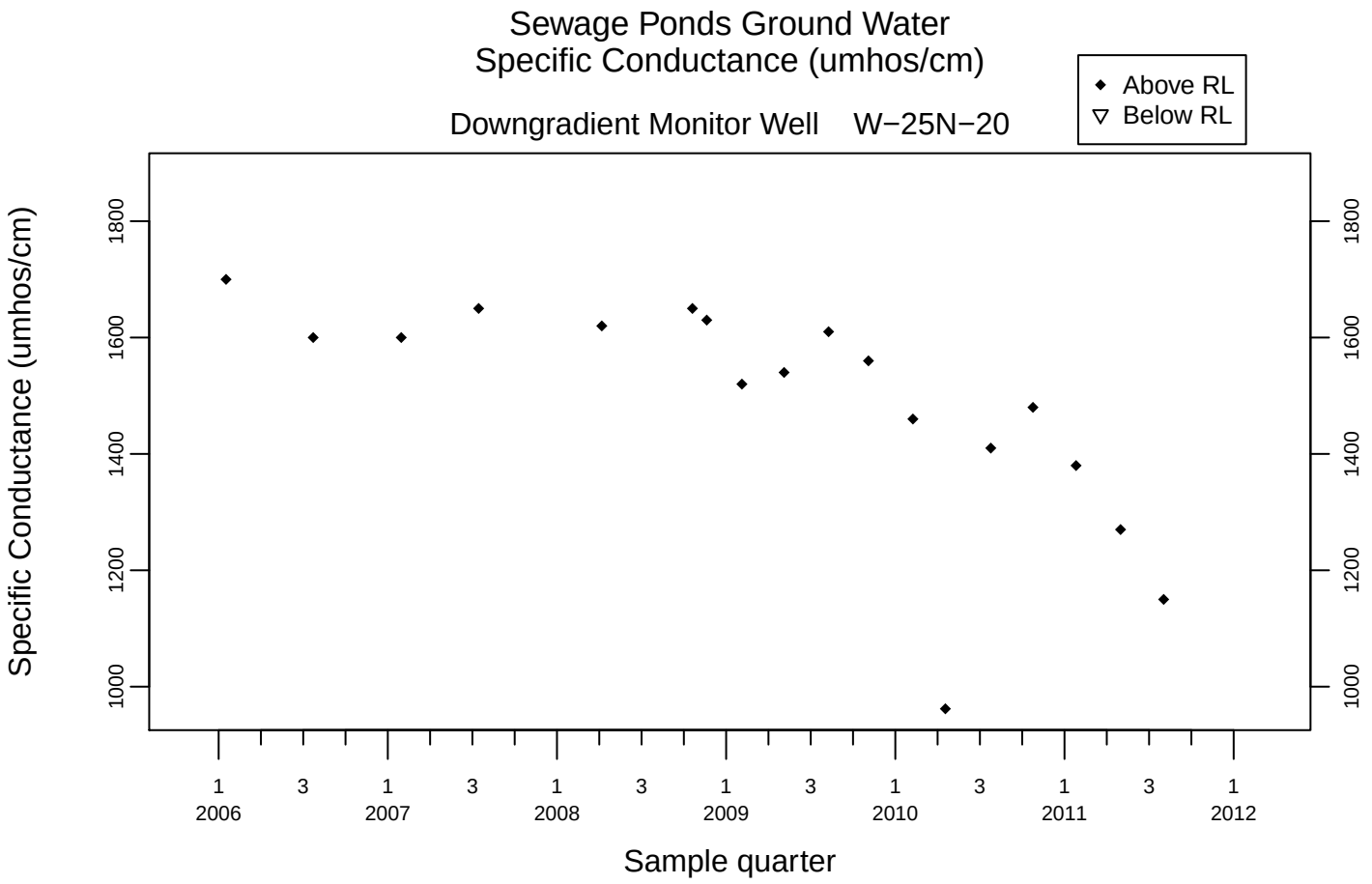

Sewage Ponds Ground Water
Field pH (Units)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Field pH (Units)
0
2
4
6
8
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

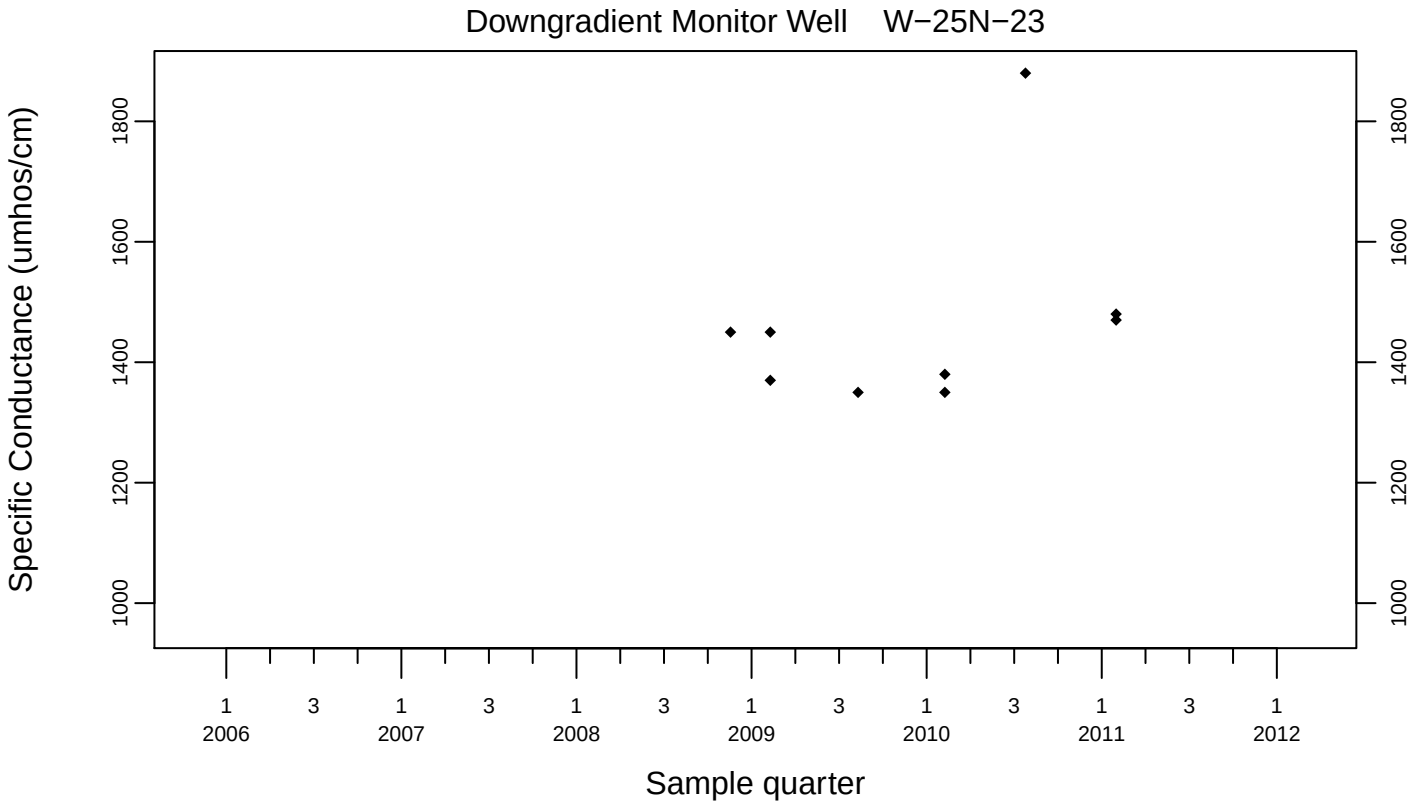

Sewage Ponds Ground Water
Specific Conductance (umhos/cm)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

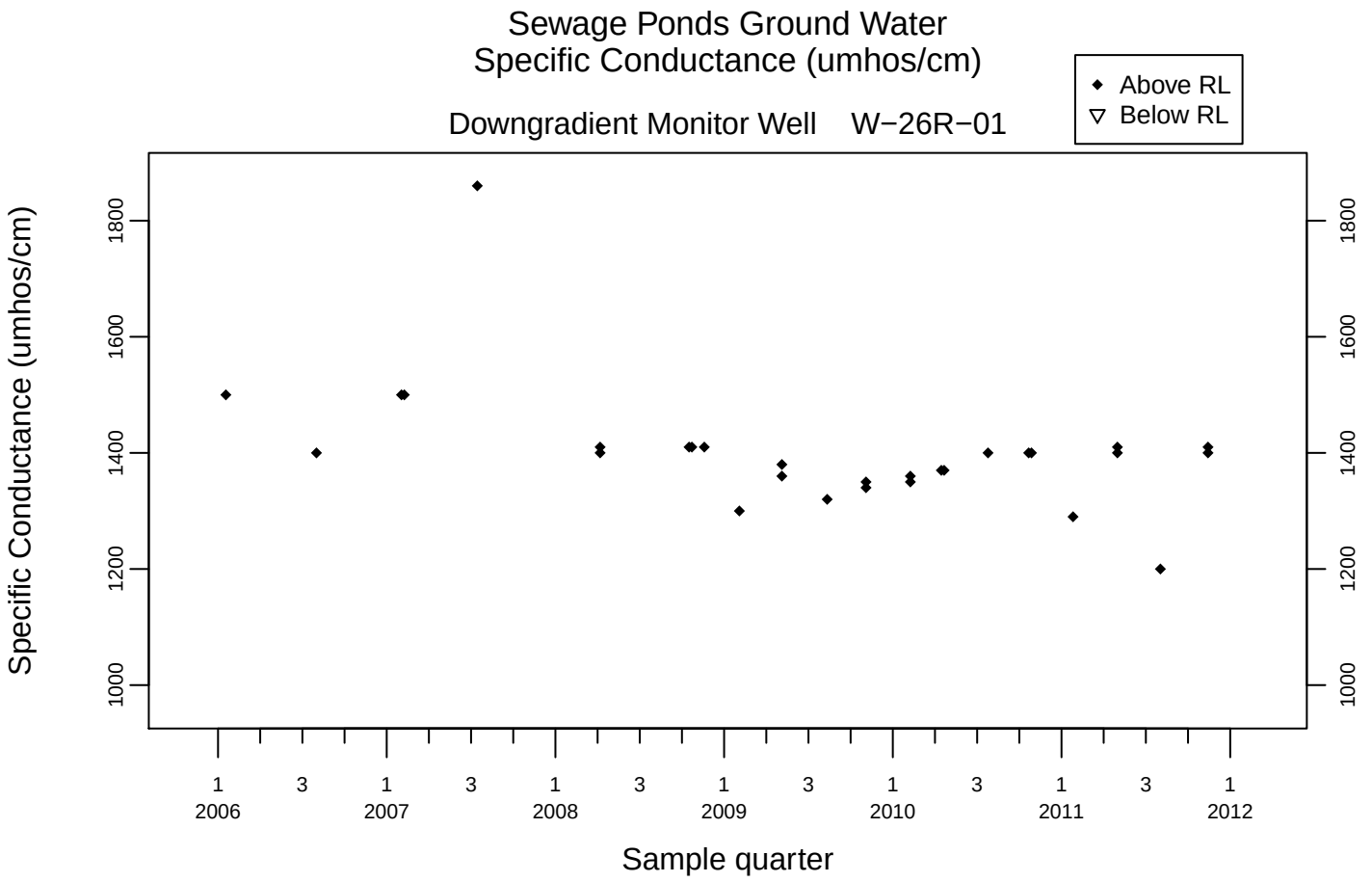

Upgradient Monitor Well W−7PS
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

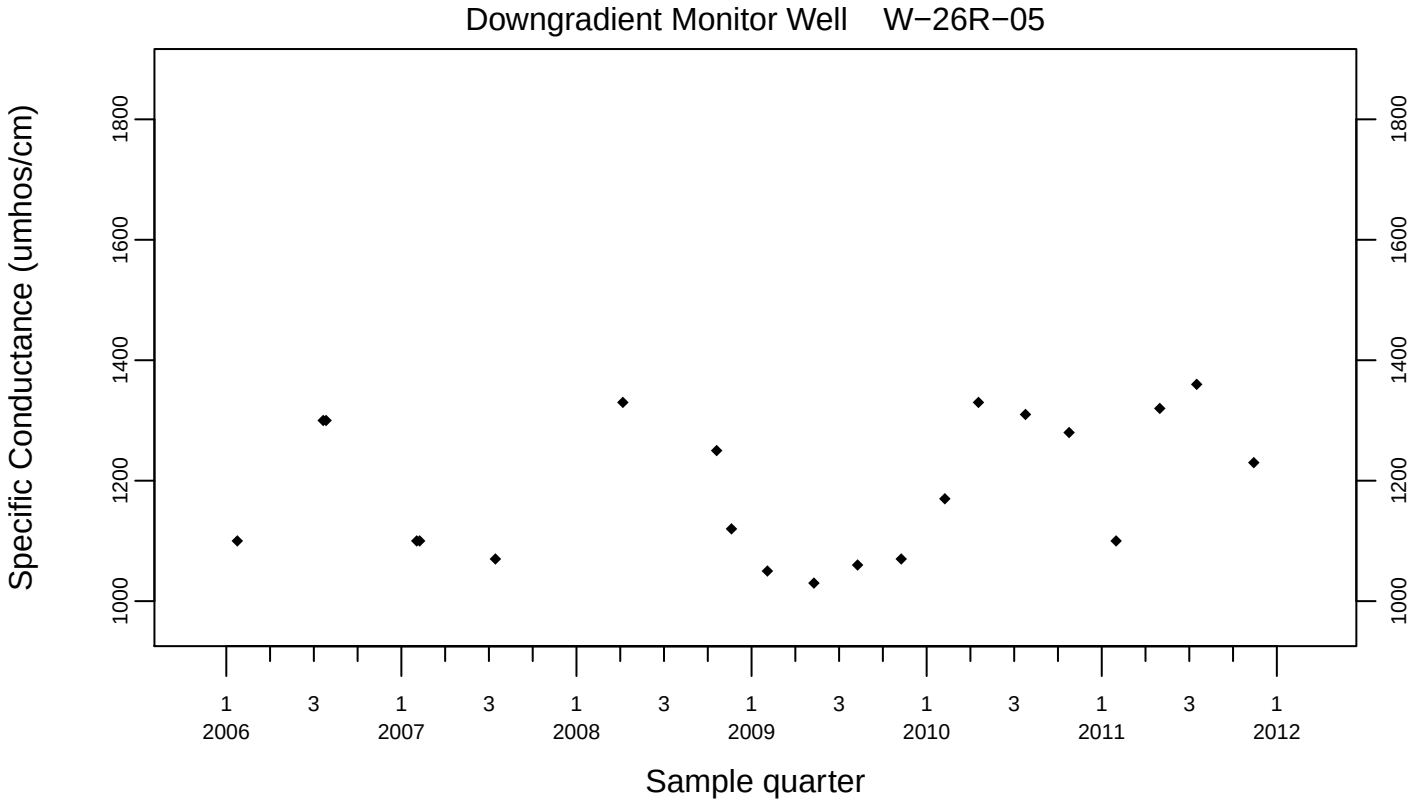

Sewage Ponds Ground Water
Specific Conductance (umhos/cm)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

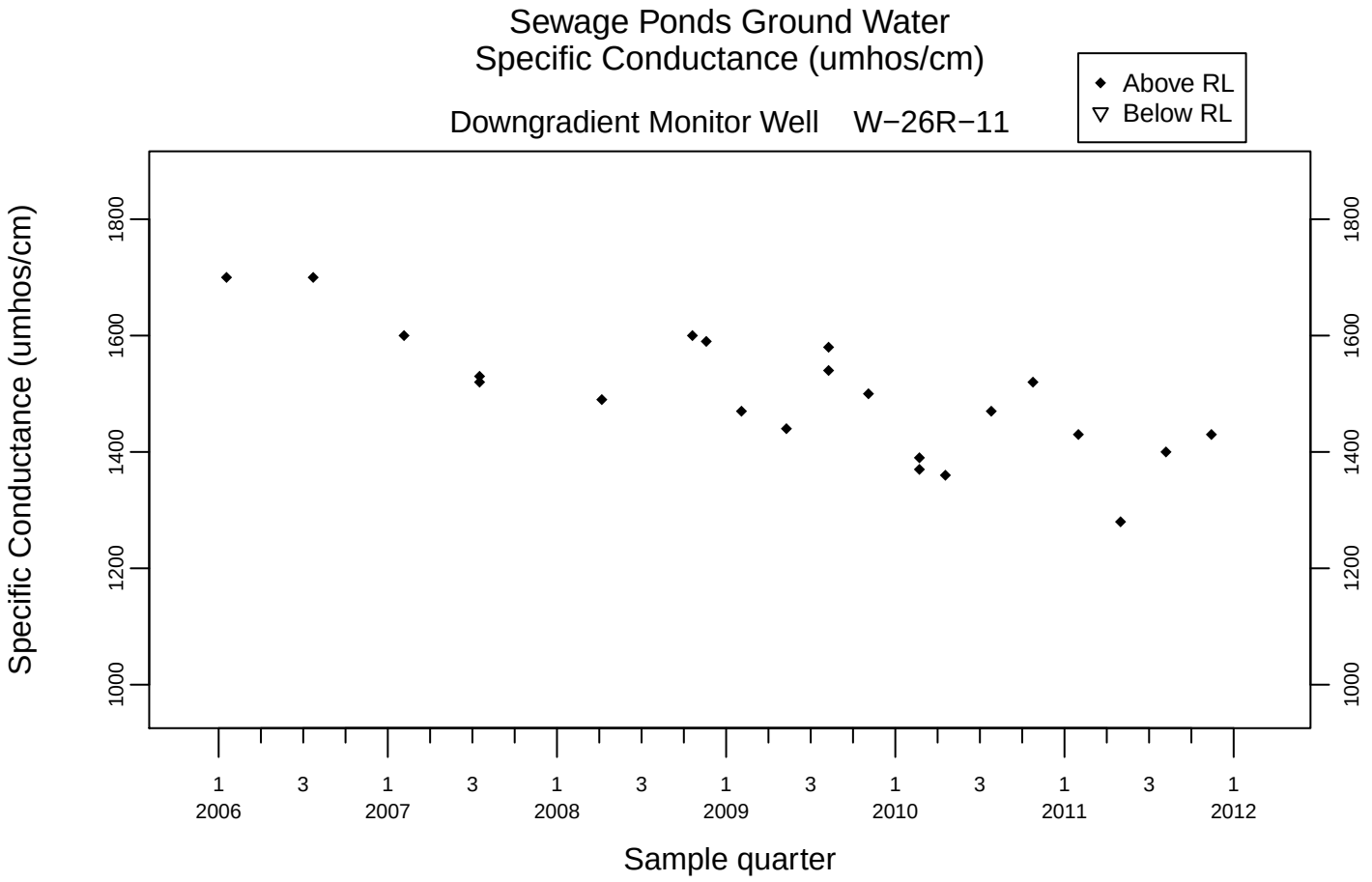

Downgradient Monitor Well W−7DS
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

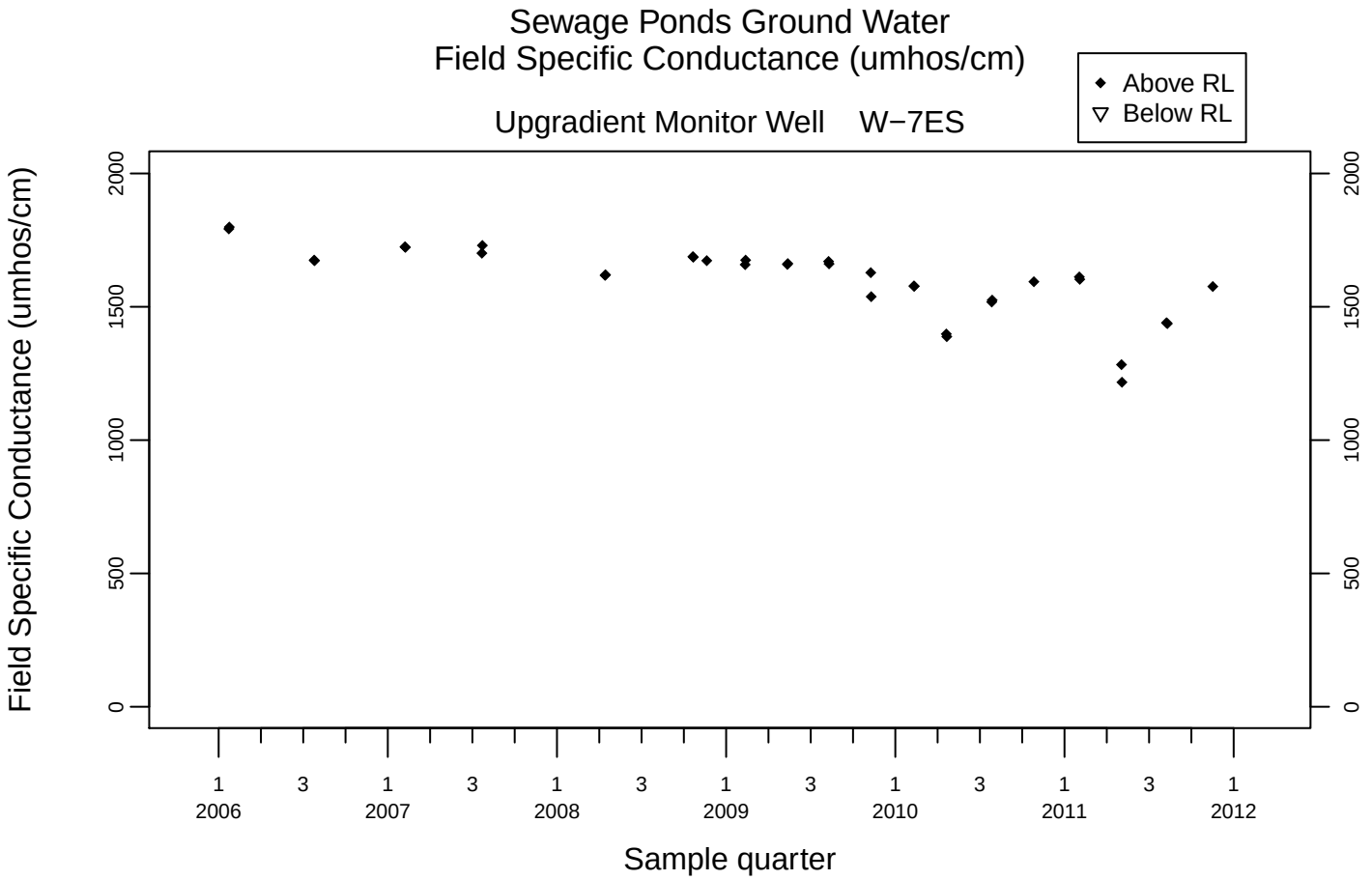

Sewage Ponds Ground Water
Specific Conductance (umhos/cm)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

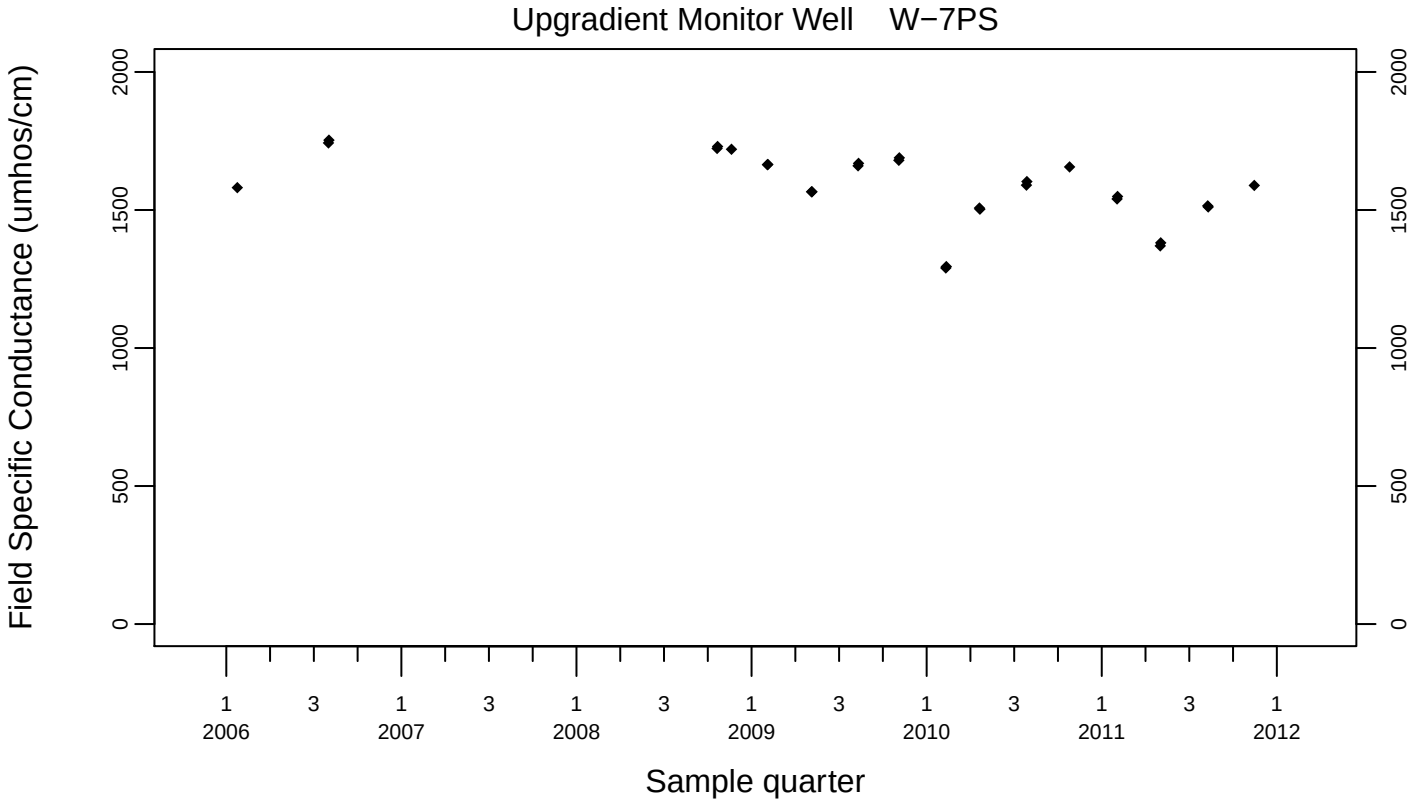

Downgradient Monitor Well W−25N−23
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

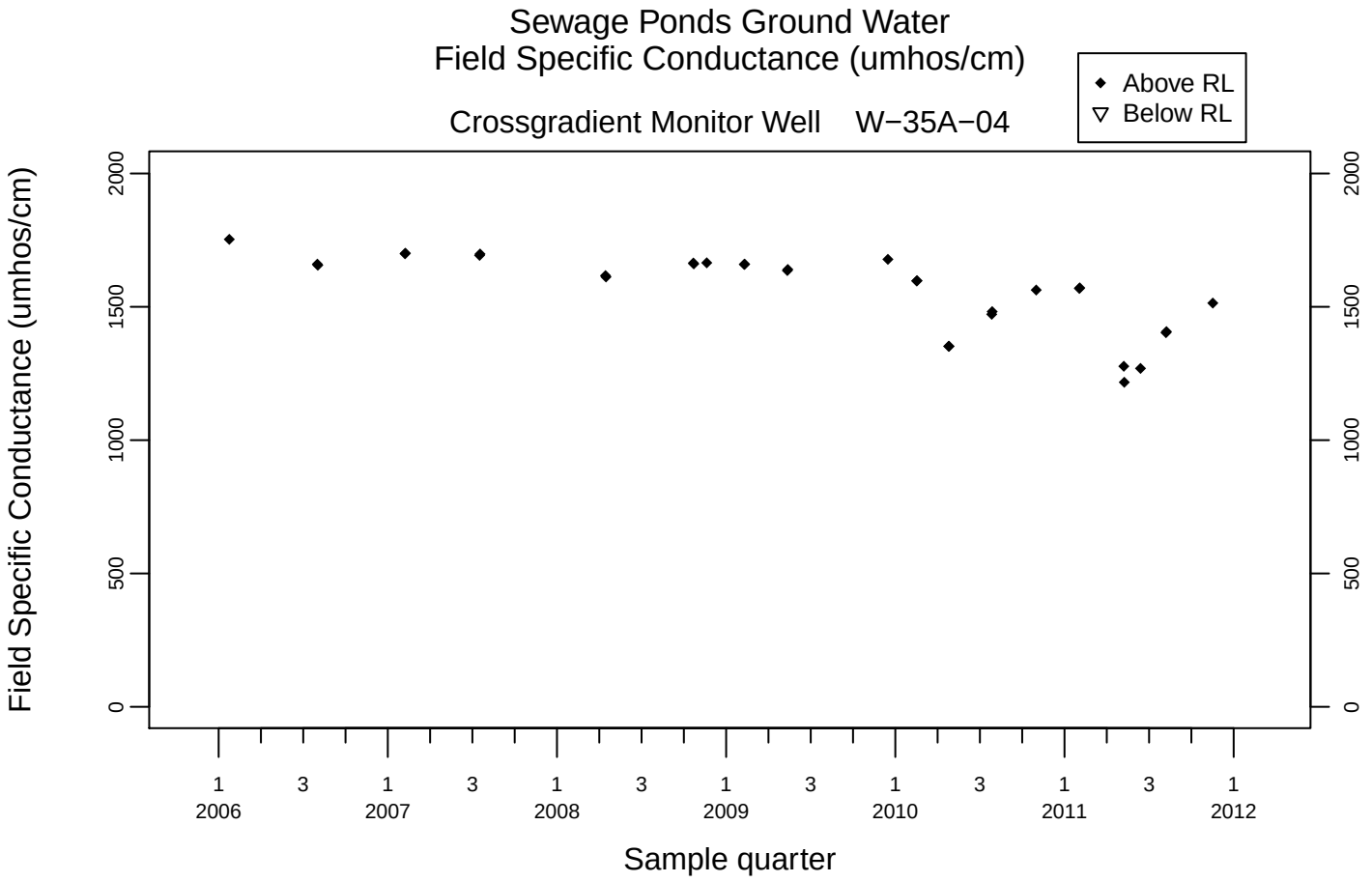

Sewage Ponds Ground Water
Specific Conductance (umhos/cm)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

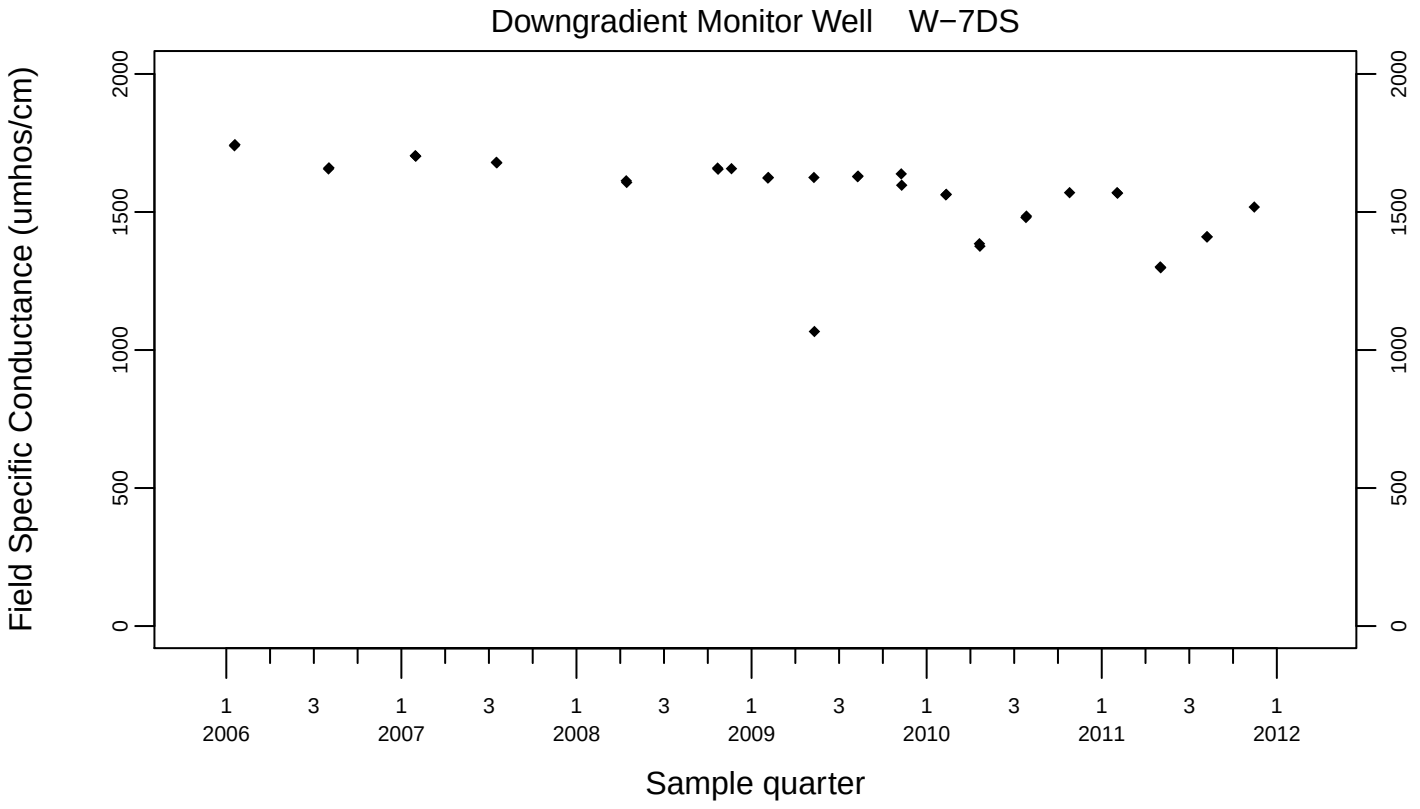

Downgradient Monitor Well W−26R−05
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

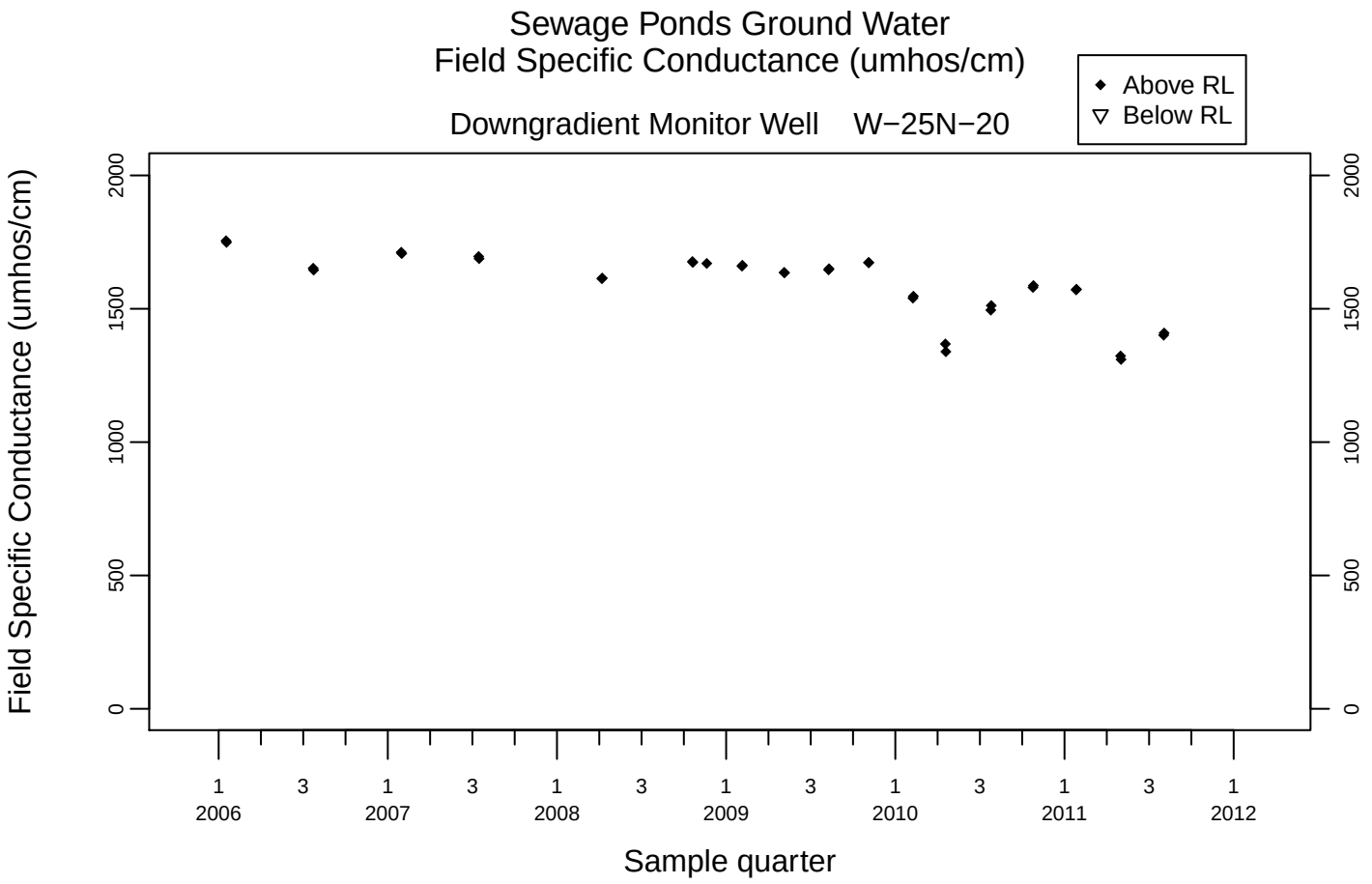

Sewage Ponds Ground Water
Specific Conductance (umhos/cm)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

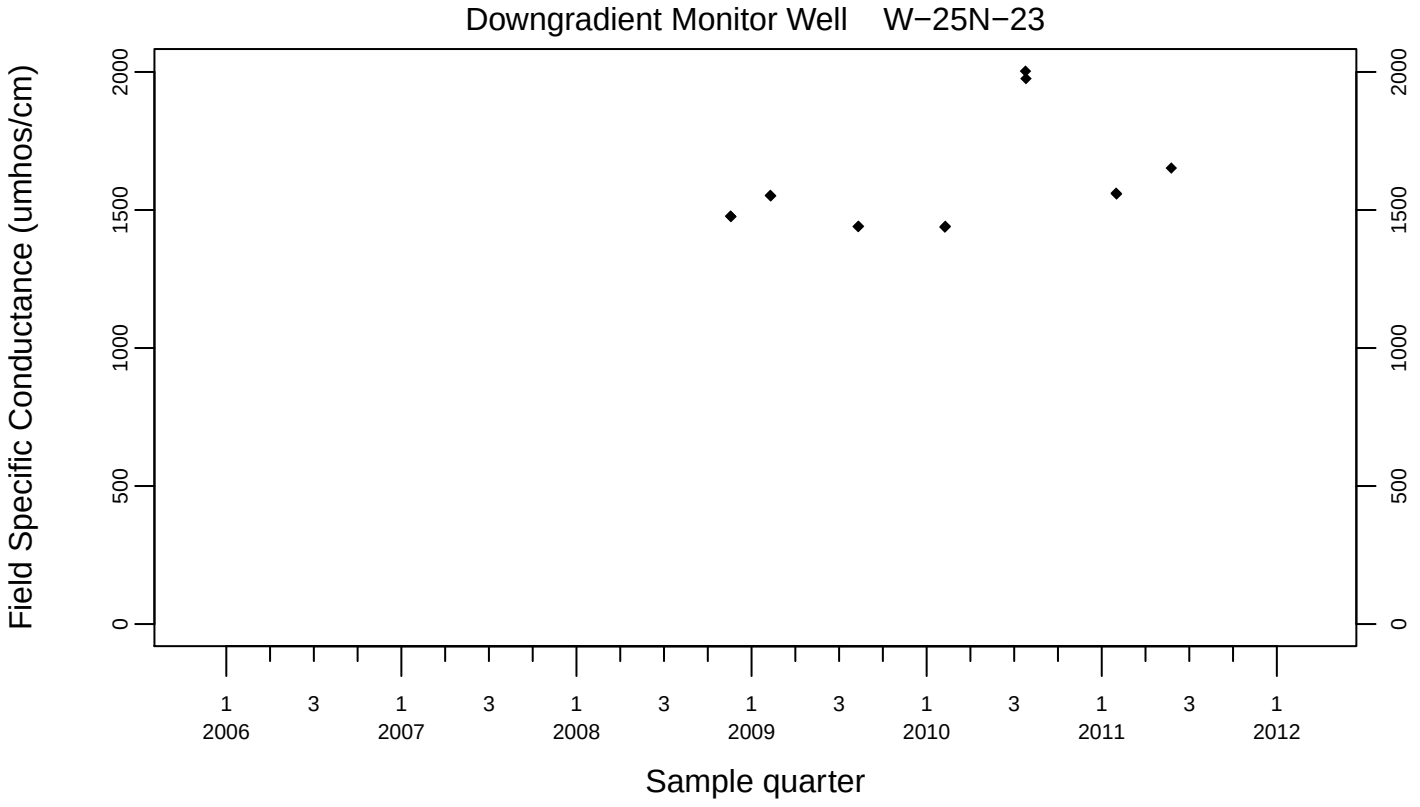

Sewage Ponds Ground Water
Field Specific Conductance (umhos/cm)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Field Specific Conductance (umhos/cm)
0
500
1000
1500
2000
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

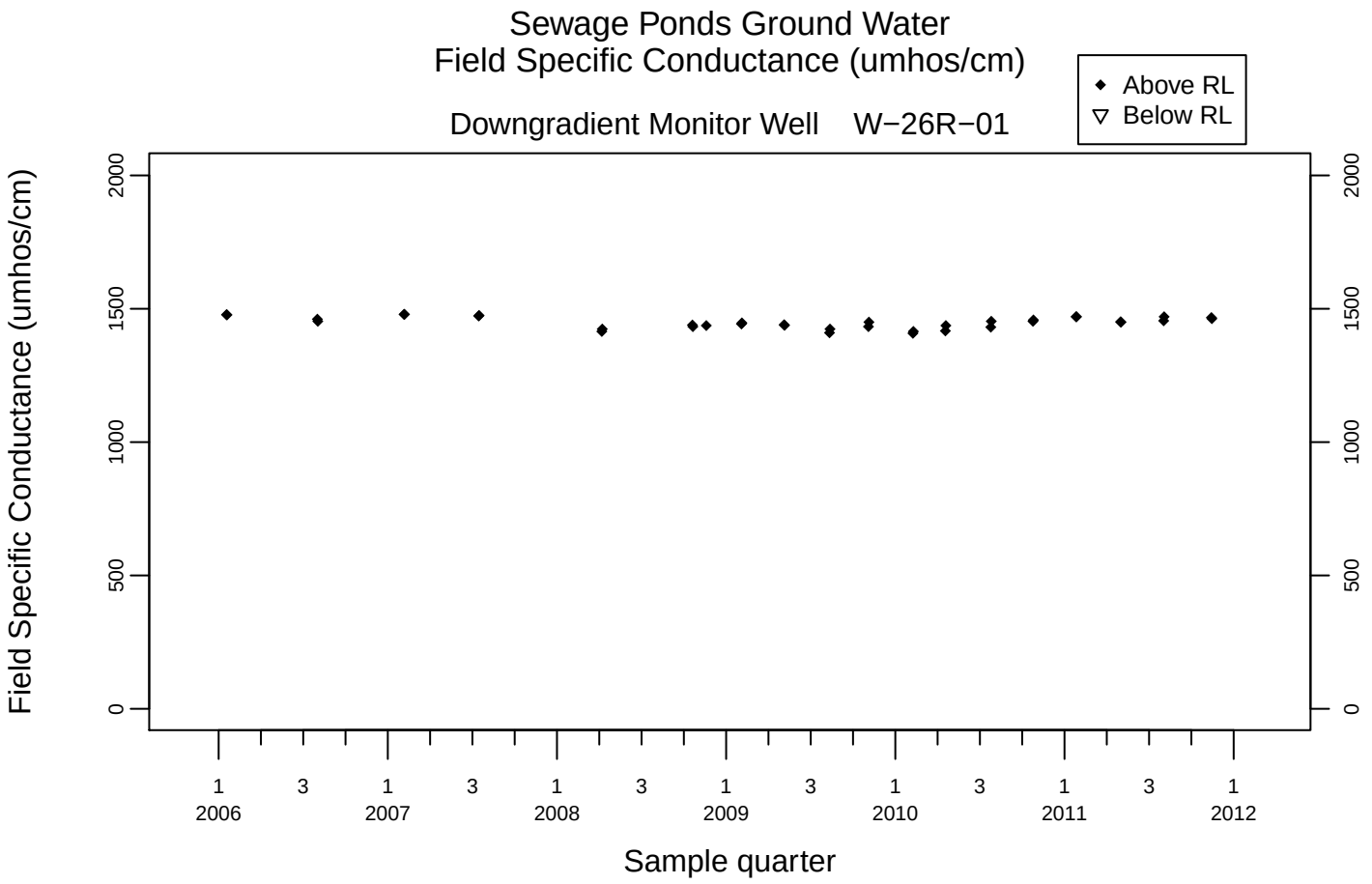

Upgradient Monitor Well W−7PS
Field Specific Conductance (umhos/cm)
0
500
1000
1500
2000
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

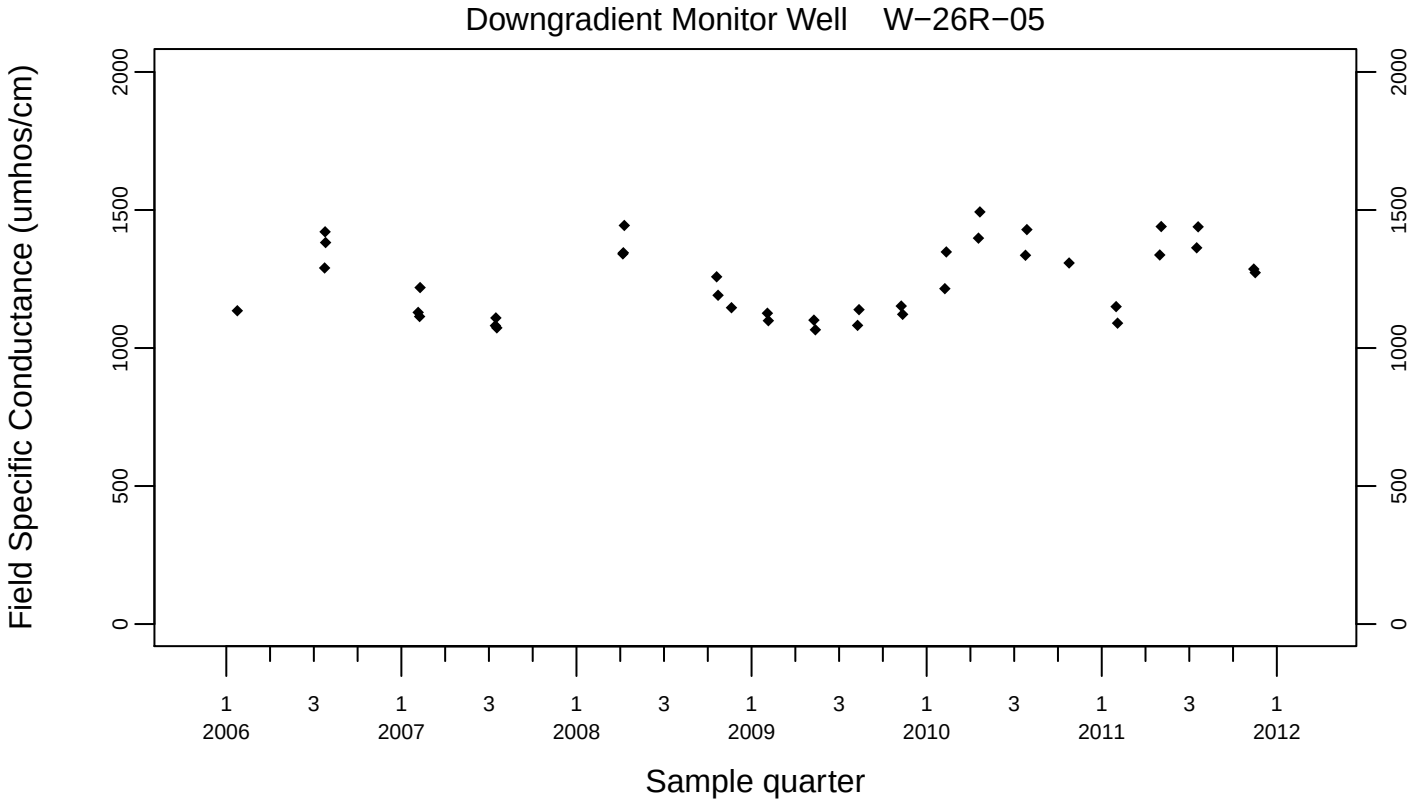

Sewage Ponds Ground Water
Field Specific Conductance (umhos/cm)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Field Specific Conductance (umhos/cm)
0
500
1000
1500
2000
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

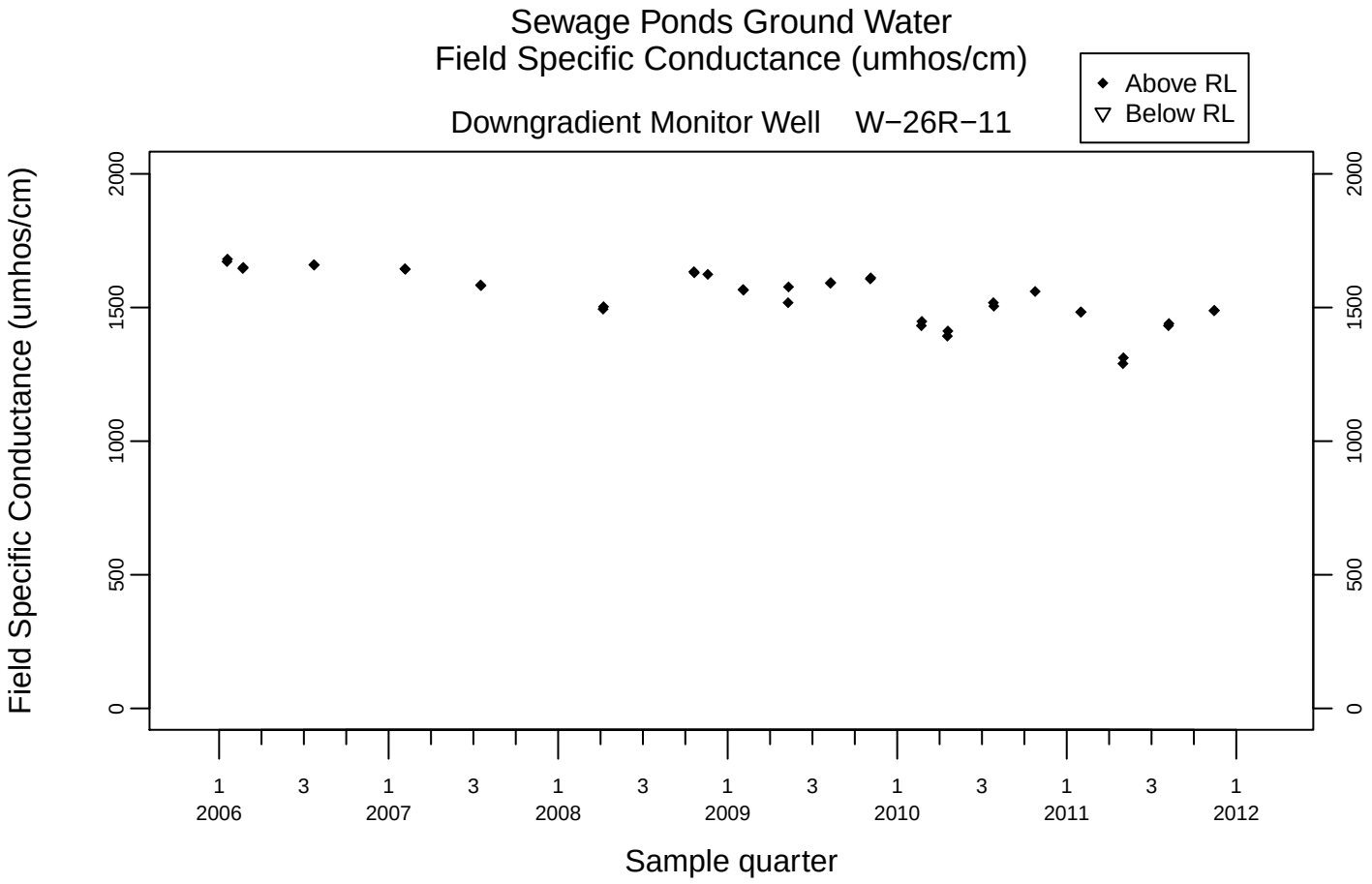

Downgradient Monitor Well W−7DS
Field Specific Conductance (umhos/cm)
0
500
1000
1500
2000
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

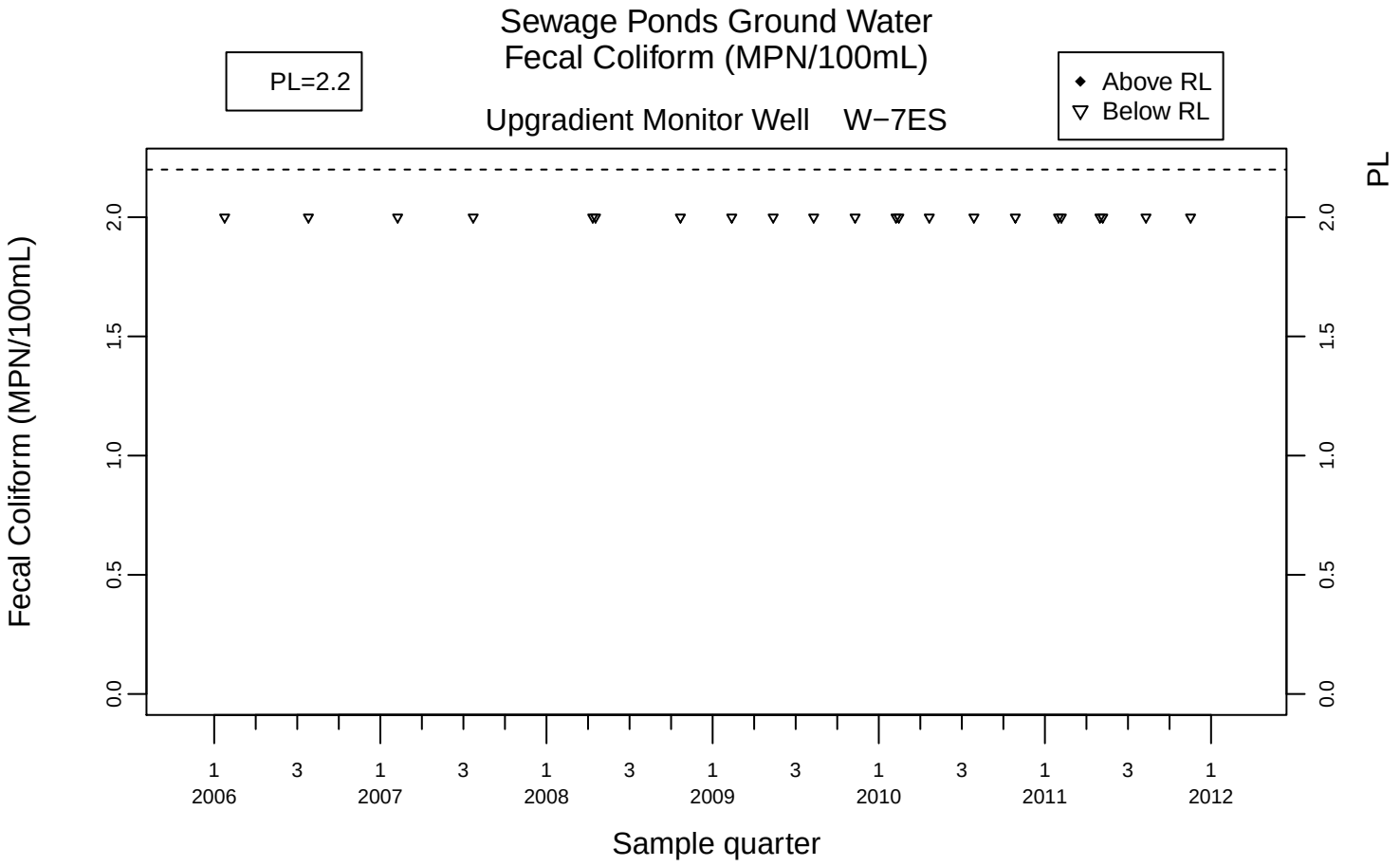

Sewage Ponds Ground Water
Field Specific Conductance (umhos/cm)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Field Specific Conductance (umhos/cm)
0
500
1000
1500
2000
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

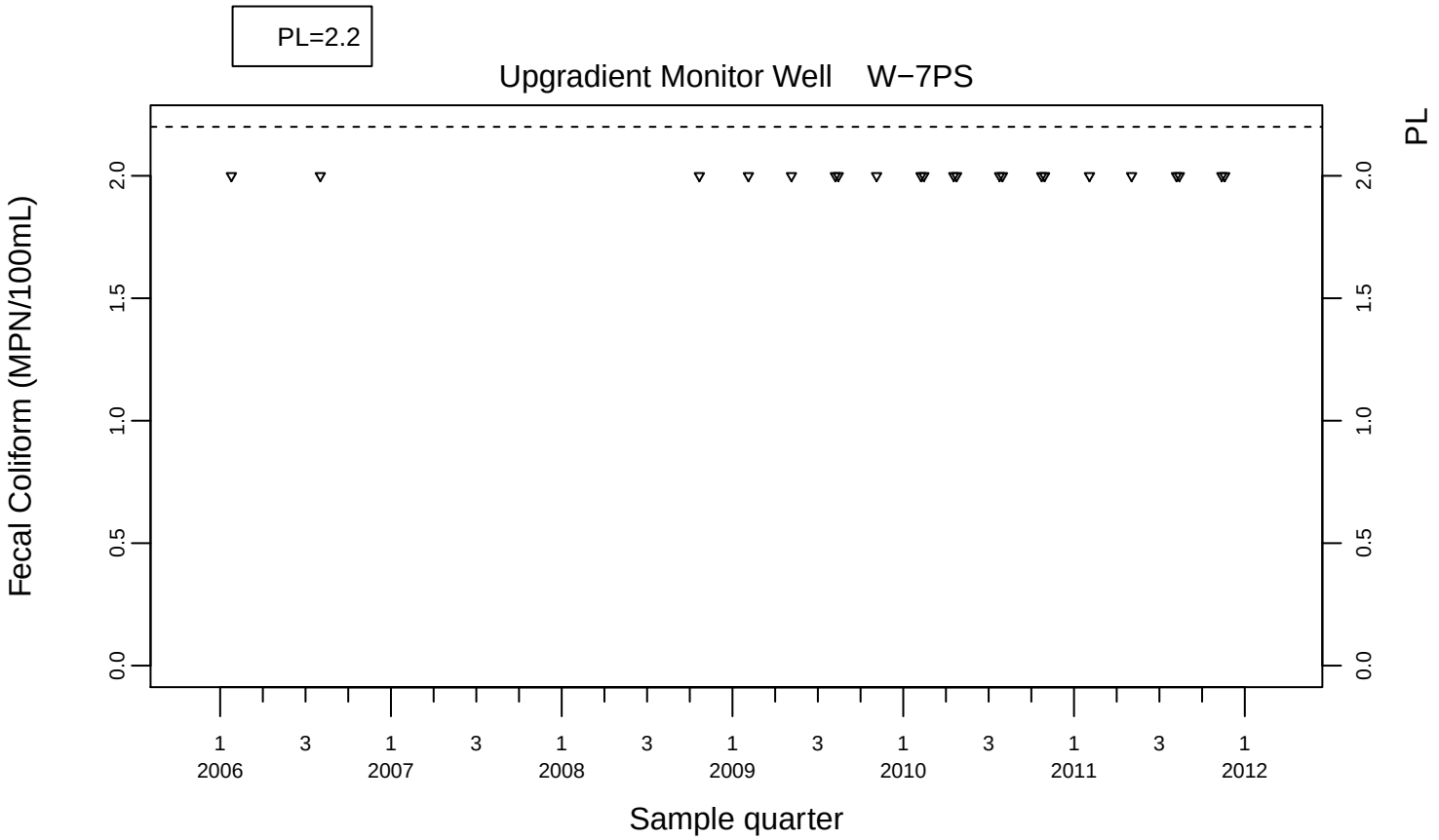

Downgradient Monitor Well W−25N−23
Field Specific Conductance (umhos/cm)
0
500
1000
1500
2000
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

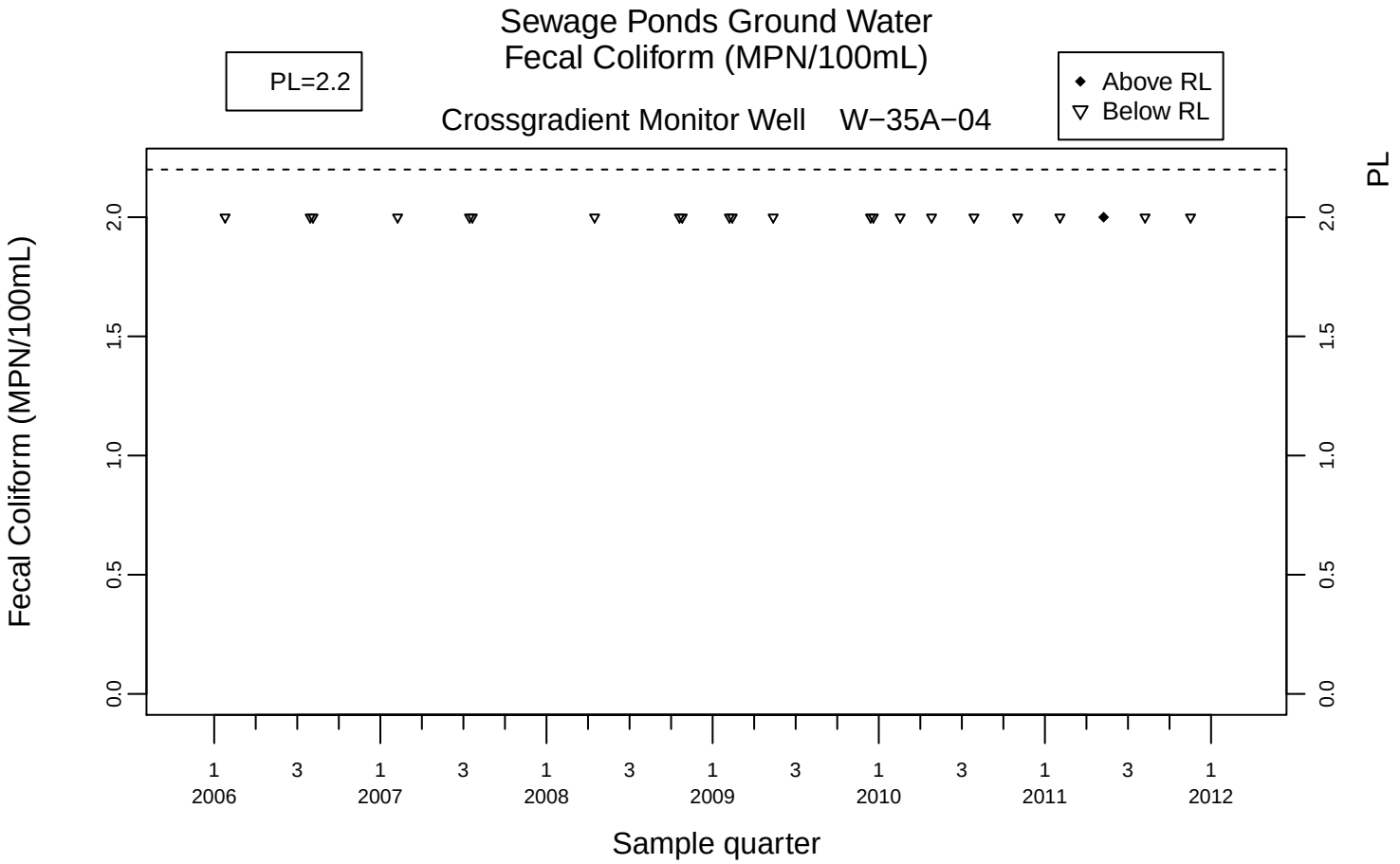

Sewage Ponds Ground Water
Field Specific Conductance (umhos/cm)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Field Specific Conductance (umhos/cm)
0
500
1000
1500
2000
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

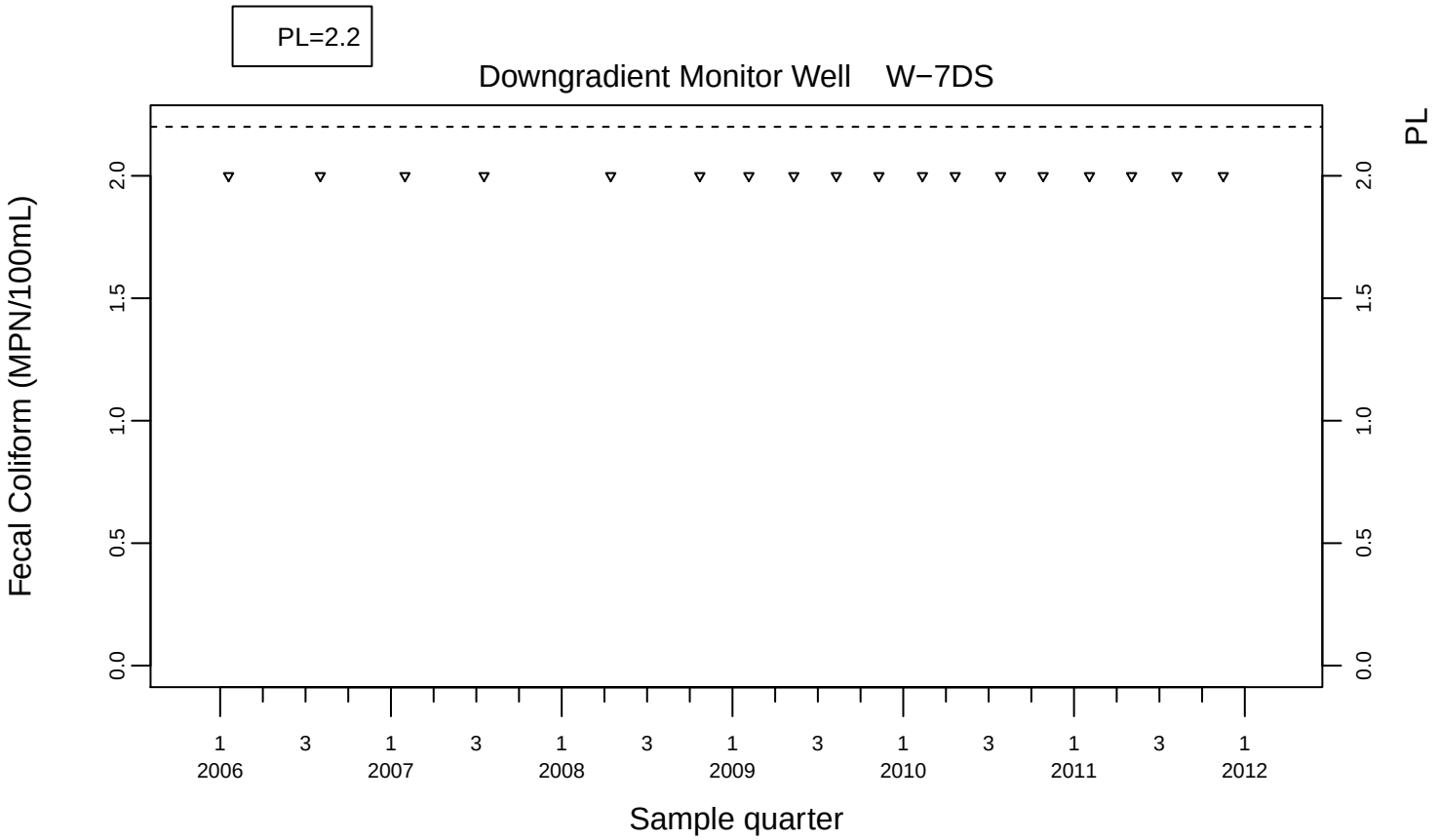

Downgradient Monitor Well W−26R−05
Field Specific Conductance (umhos/cm)
0
500
1000
1500
2000
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

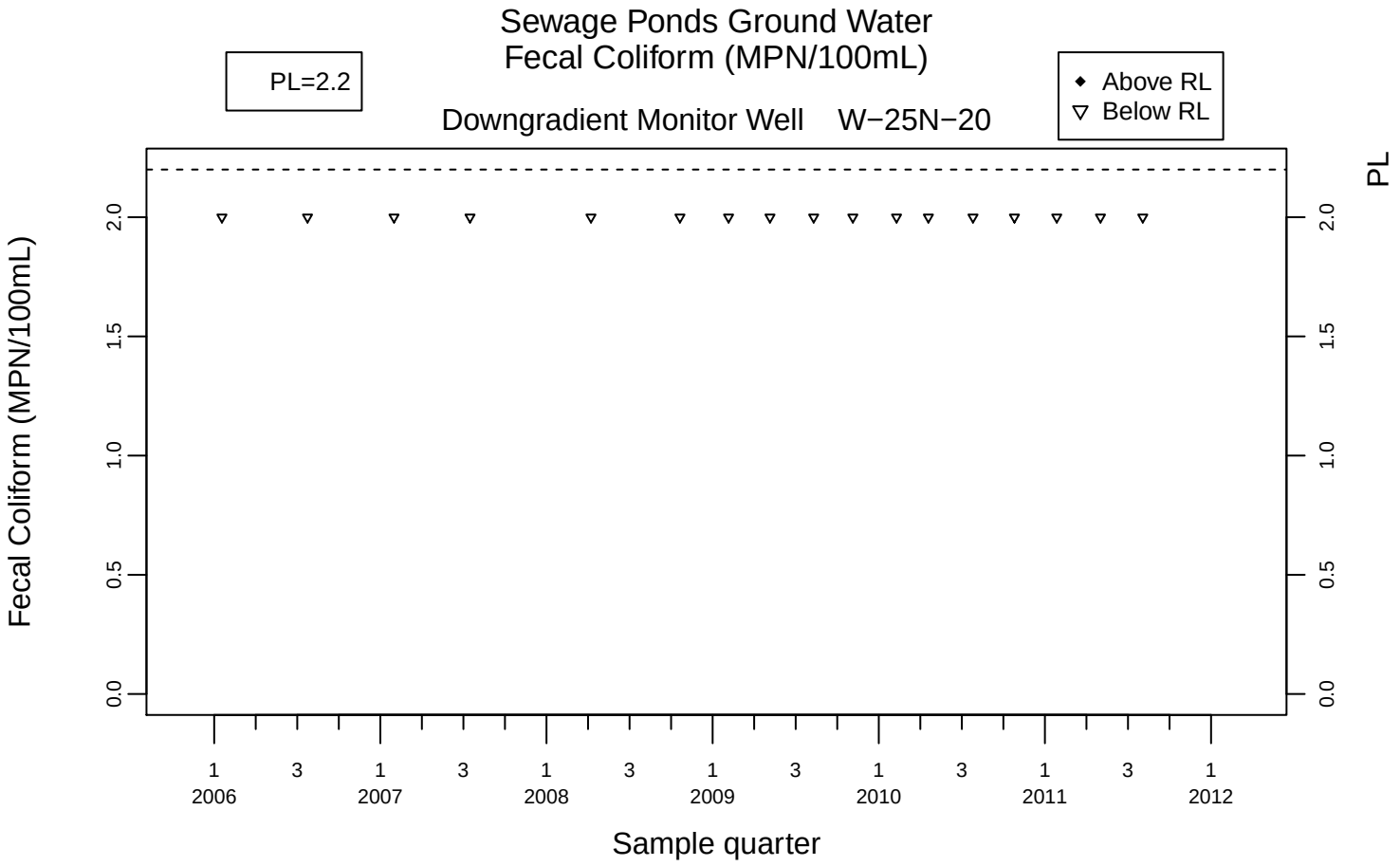

Sewage Ponds Ground Water
Field Specific Conductance (umhos/cm)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Field Specific Conductance (umhos/cm)
0
500
1000
1500
2000
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

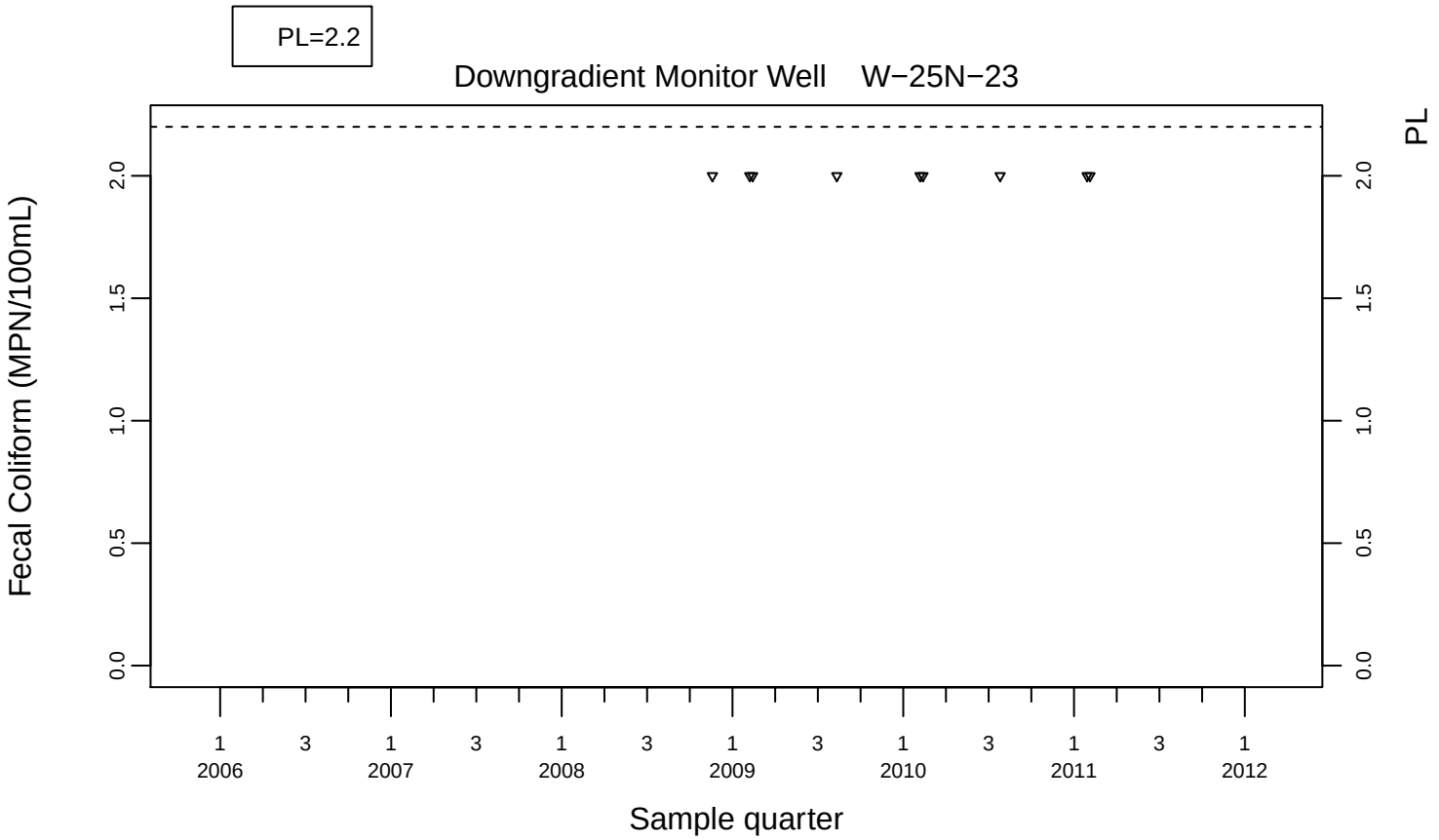

Sewage Ponds Ground Water
Fecal Coliform (MPN/100mL)
PL=2.2
Above RL
Below RL
Upgradient Monitor Well W−7ES
Fecal Coliform (MPN/100mL)
PL
0.0
0.5
1.0
1.5
2.0
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

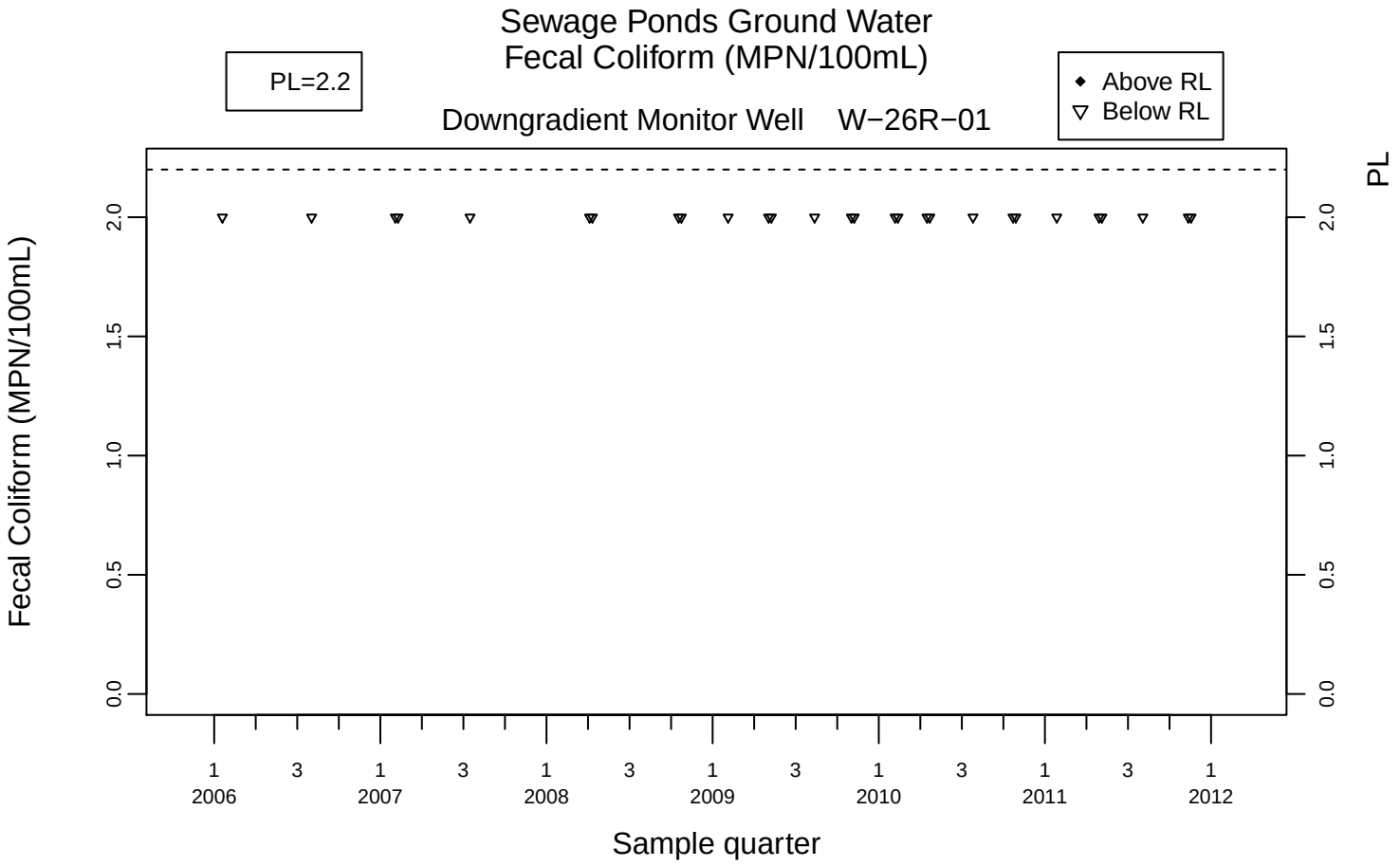

PL=2.2
Upgradient Monitor Well W−7PS
Fecal Coliform (MPN/100mL)
PL
0.0
0.5
1.0
1.5
2.0
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

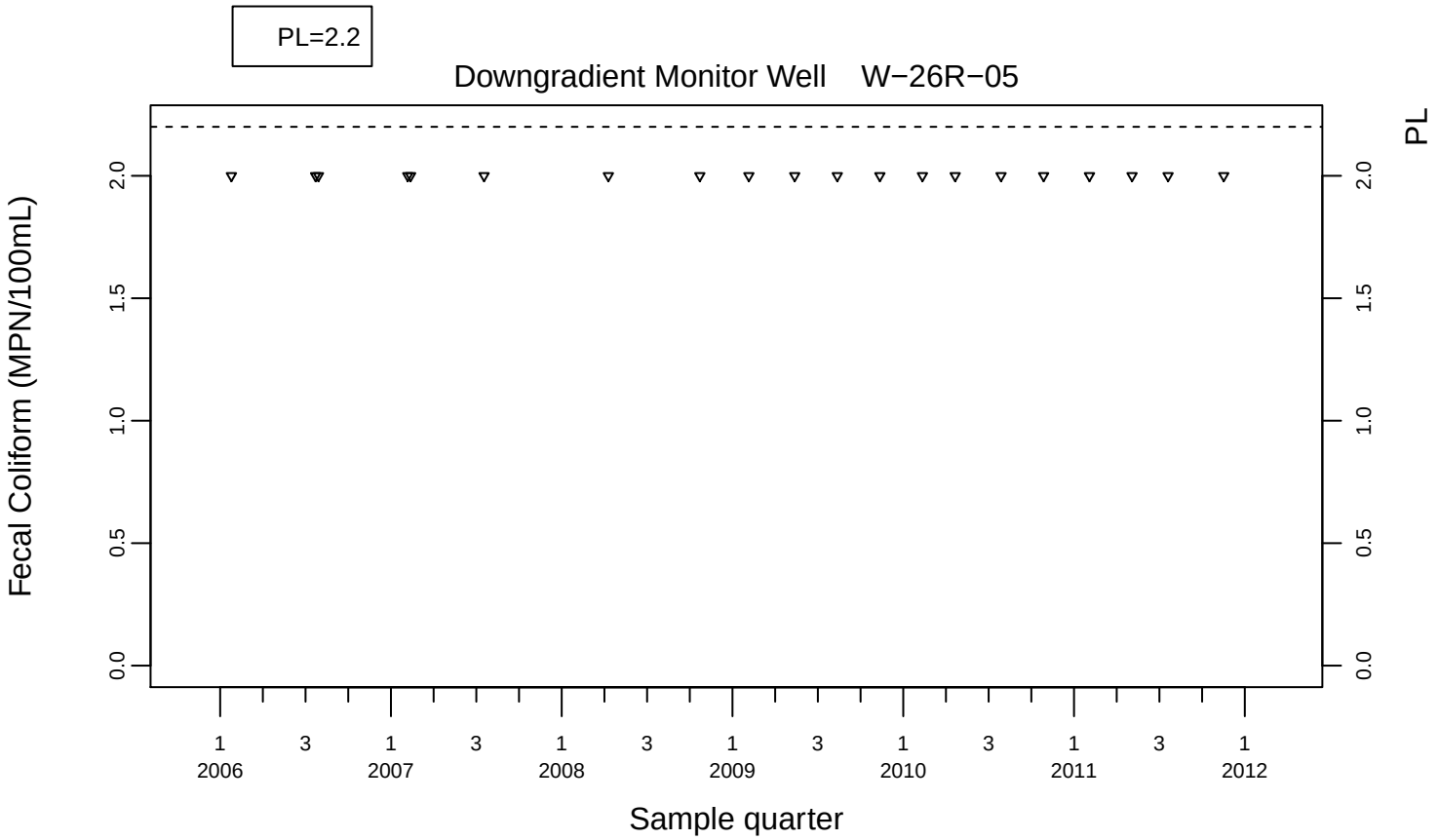

Sewage Ponds Ground Water
Fecal Coliform (MPN/100mL)
PL=2.2
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Fecal Coliform (MPN/100mL)
PL
0.0
0.5
1.0
1.5
2.0
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

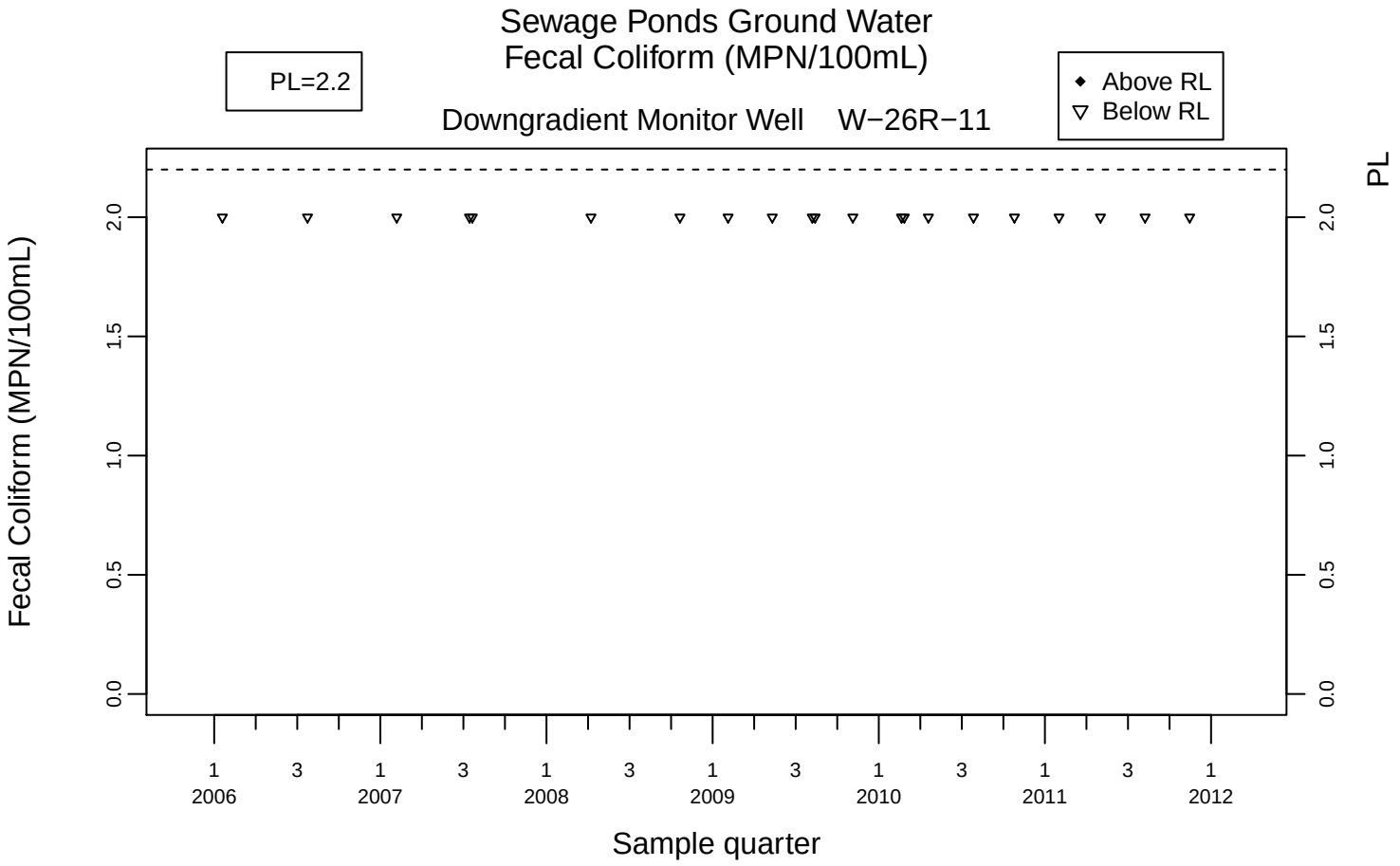

PL=2.2
Downgradient Monitor Well W−7DS
Fecal Coliform (MPN/100mL)
PL
0.0
0.5
1.0
1.5
2.0
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

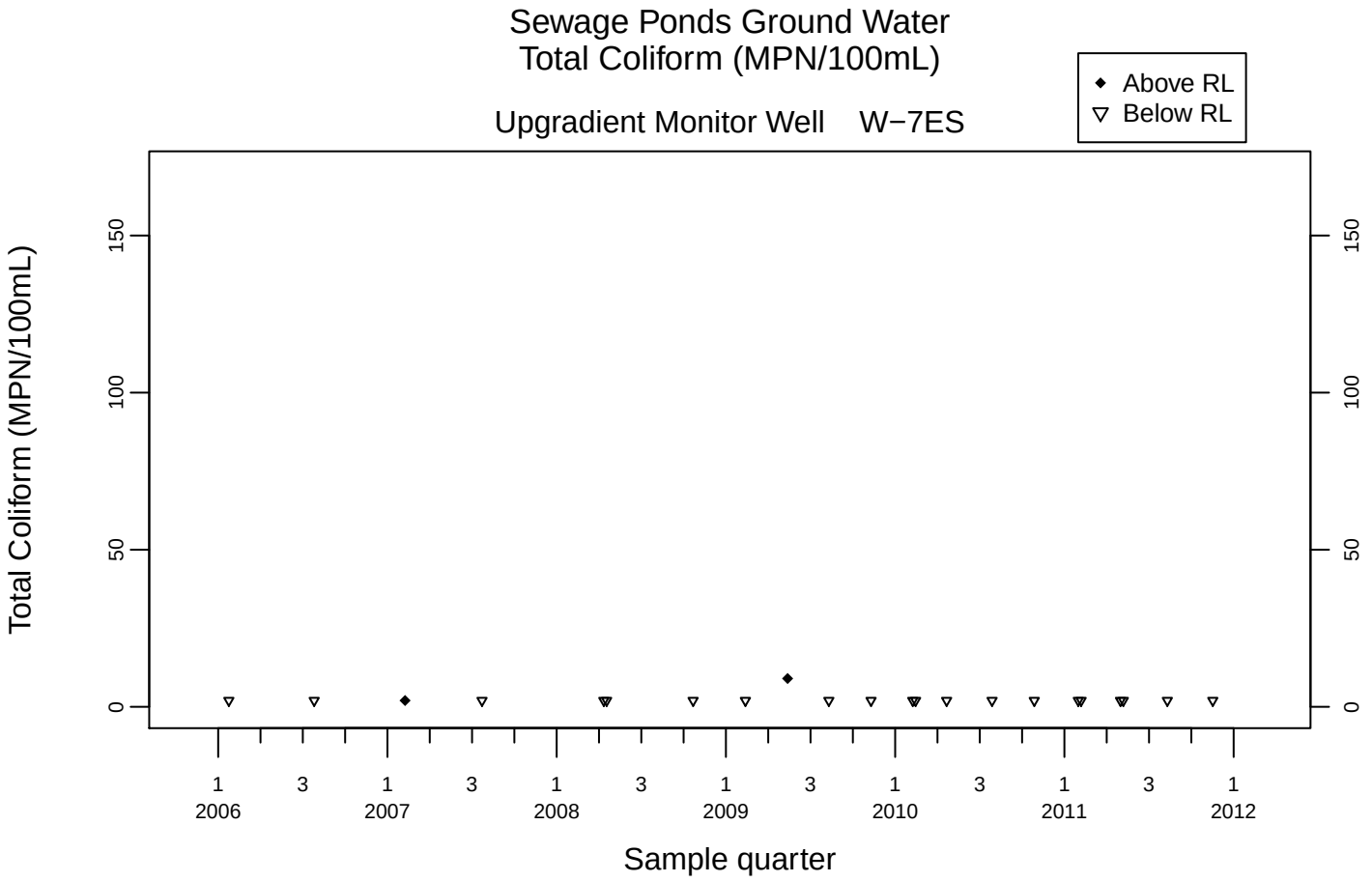

Sewage Ponds Ground Water
Fecal Coliform (MPN/100mL)
PL=2.2
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Fecal Coliform (MPN/100mL)
PL
0.0
0.5
1.0
1.5
2.0
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

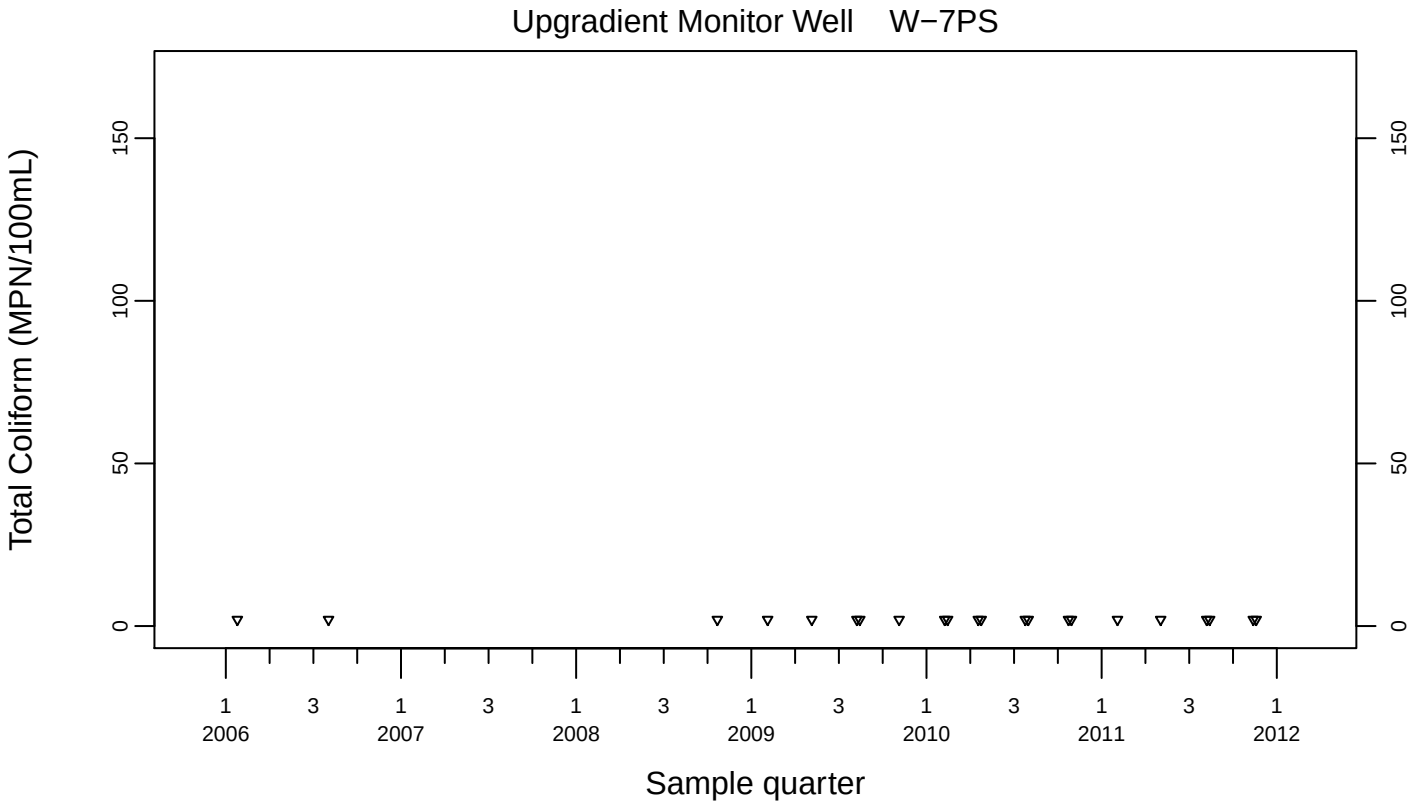

PL=2.2
Downgradient Monitor Well W−25N−23
Fecal Coliform (MPN/100mL)
PL
0.0
0.5
1.0
1.5
2.0
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

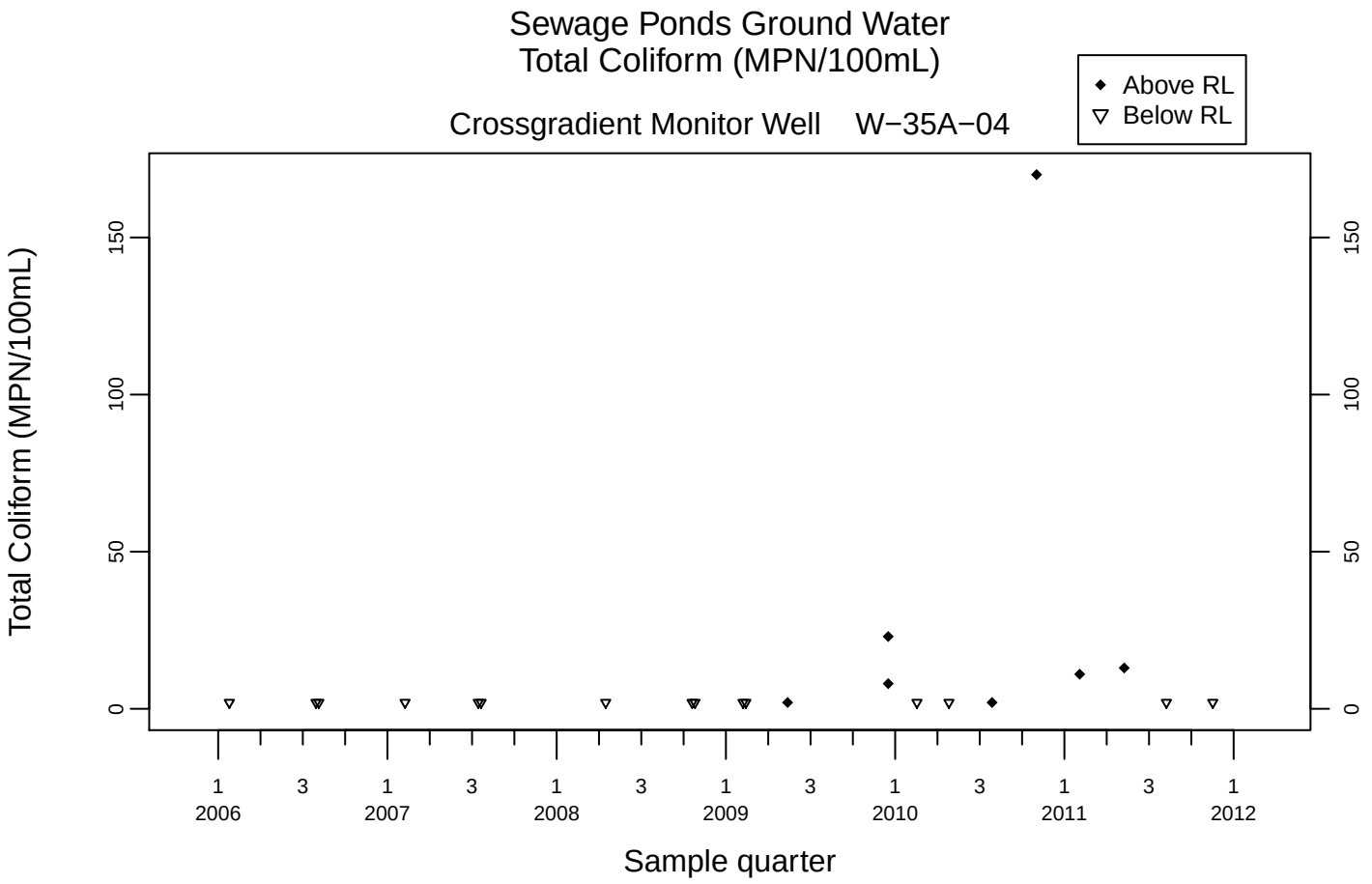

Sewage Ponds Ground Water
Fecal Coliform (MPN/100mL)
PL=2.2
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Fecal Coliform (MPN/100mL)
PL
0.0
0.5
1.0
1.5
2.0
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

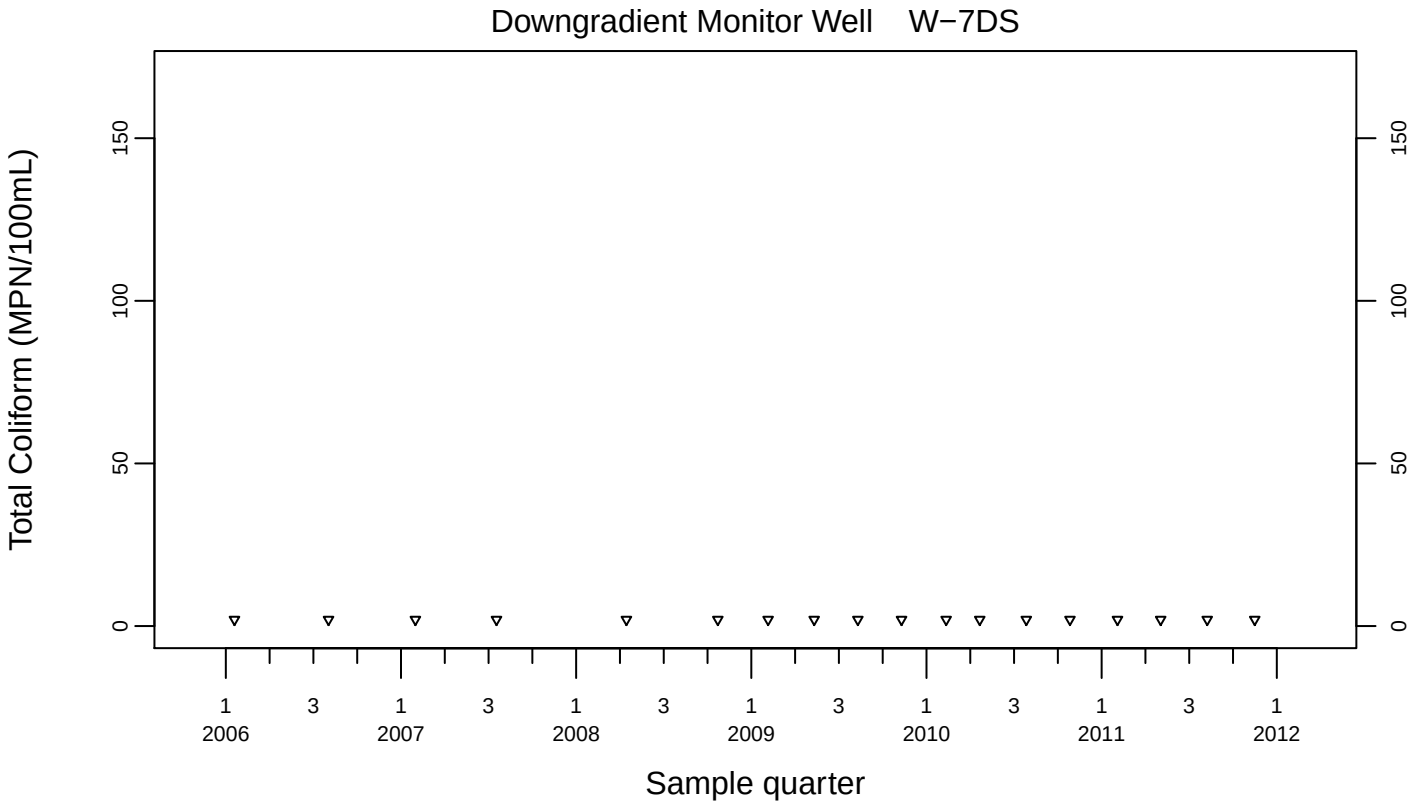

PL=2.2
Downgradient Monitor Well W−26R−05
Fecal Coliform (MPN/100mL)
PL
0.0
0.5
1.0
1.5
2.0
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

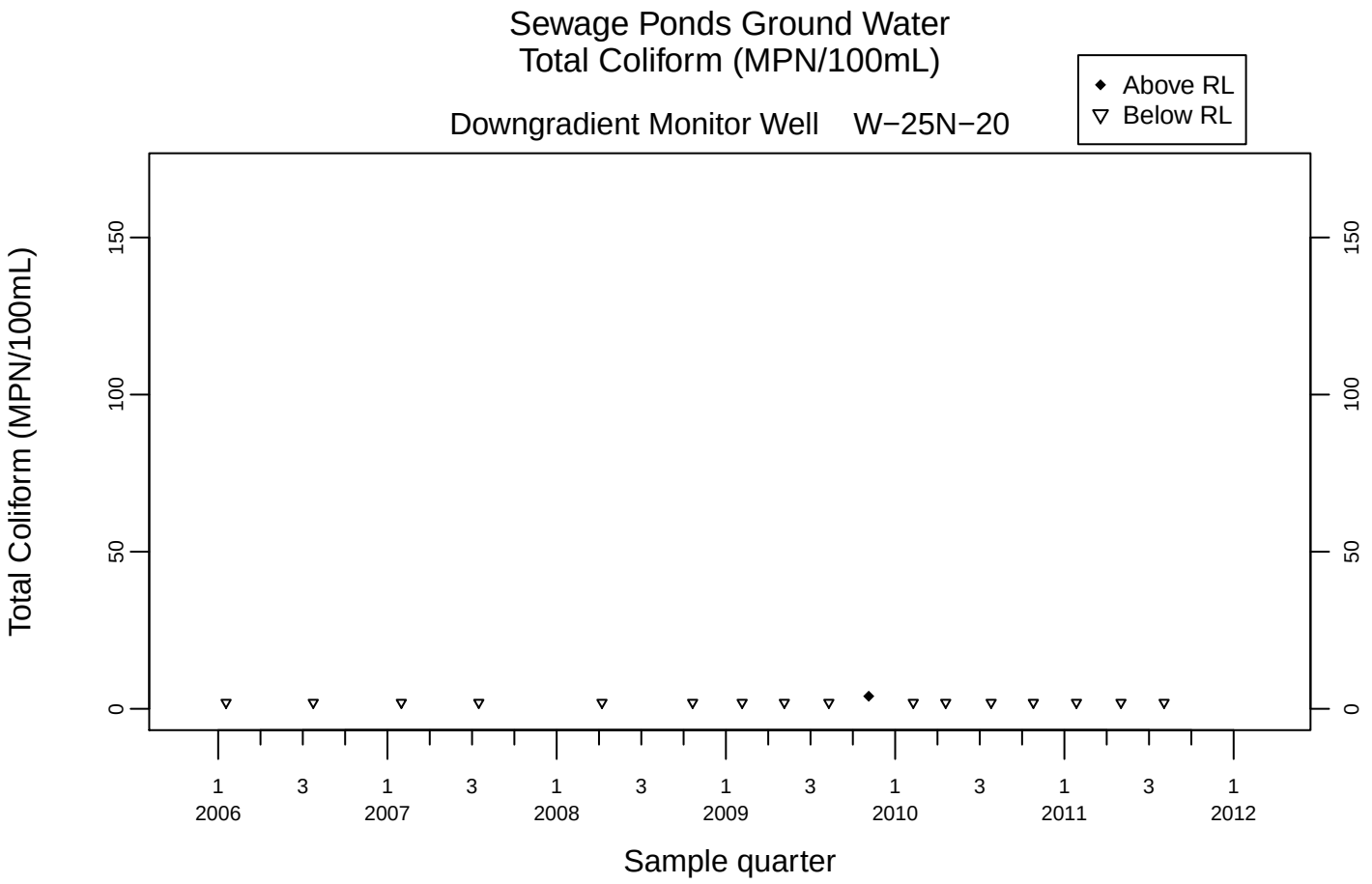

Sewage Ponds Ground Water
Fecal Coliform (MPN/100mL)
PL=2.2
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Fecal Coliform (MPN/100mL)
PL
0.0
0.5
1.0
1.5
2.0
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

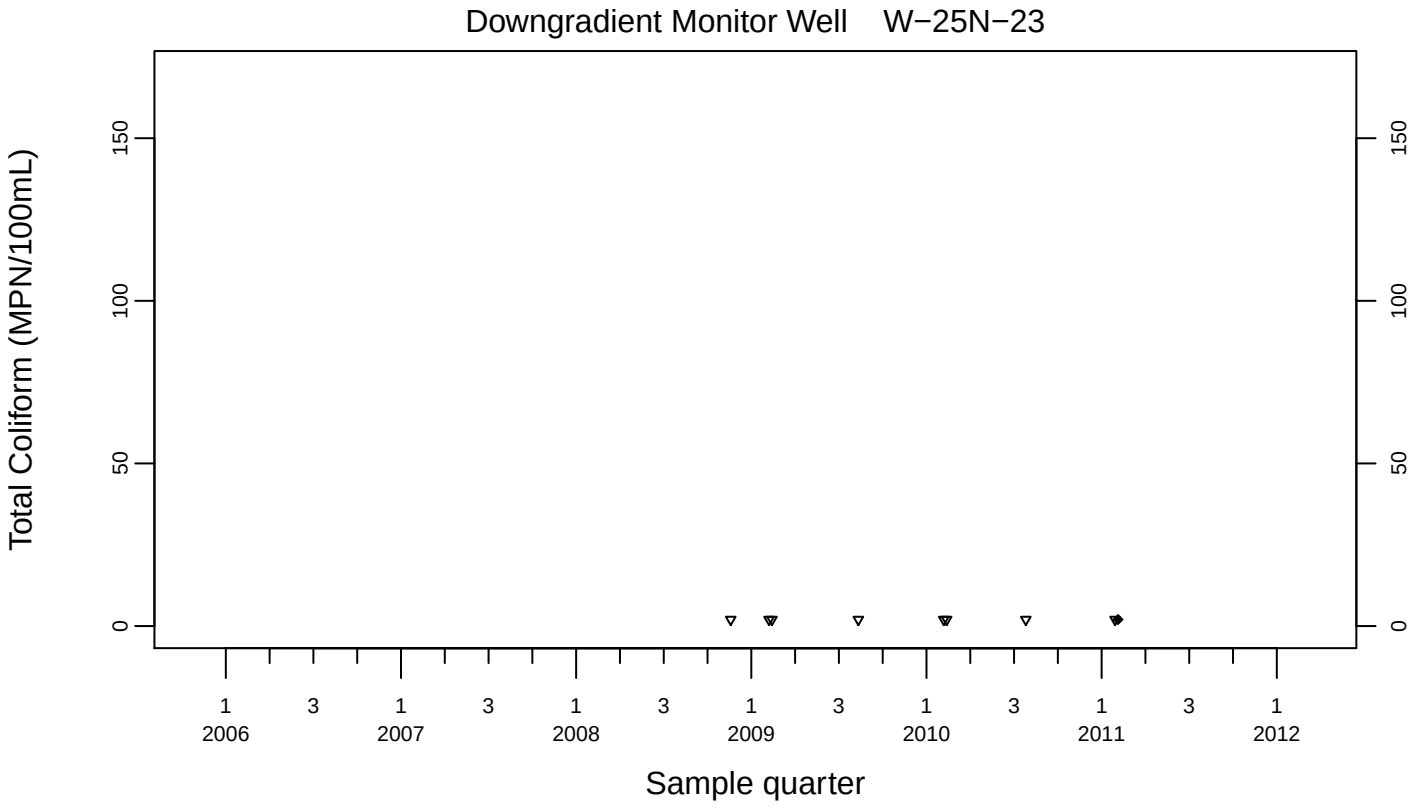

Sewage Ponds Ground Water
Total Coliform (MPN/100mL)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

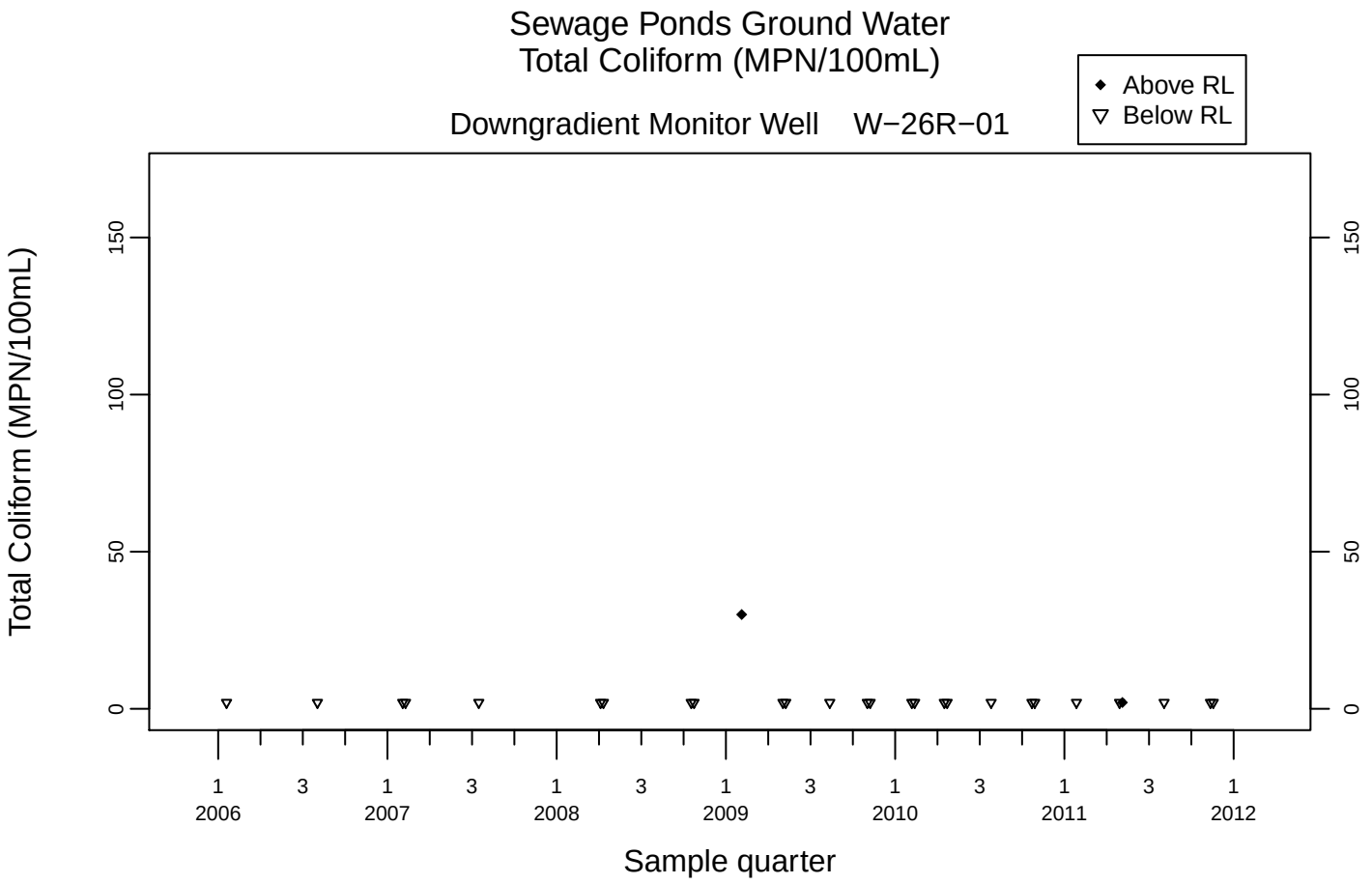

Upgradient Monitor Well W−7PS
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

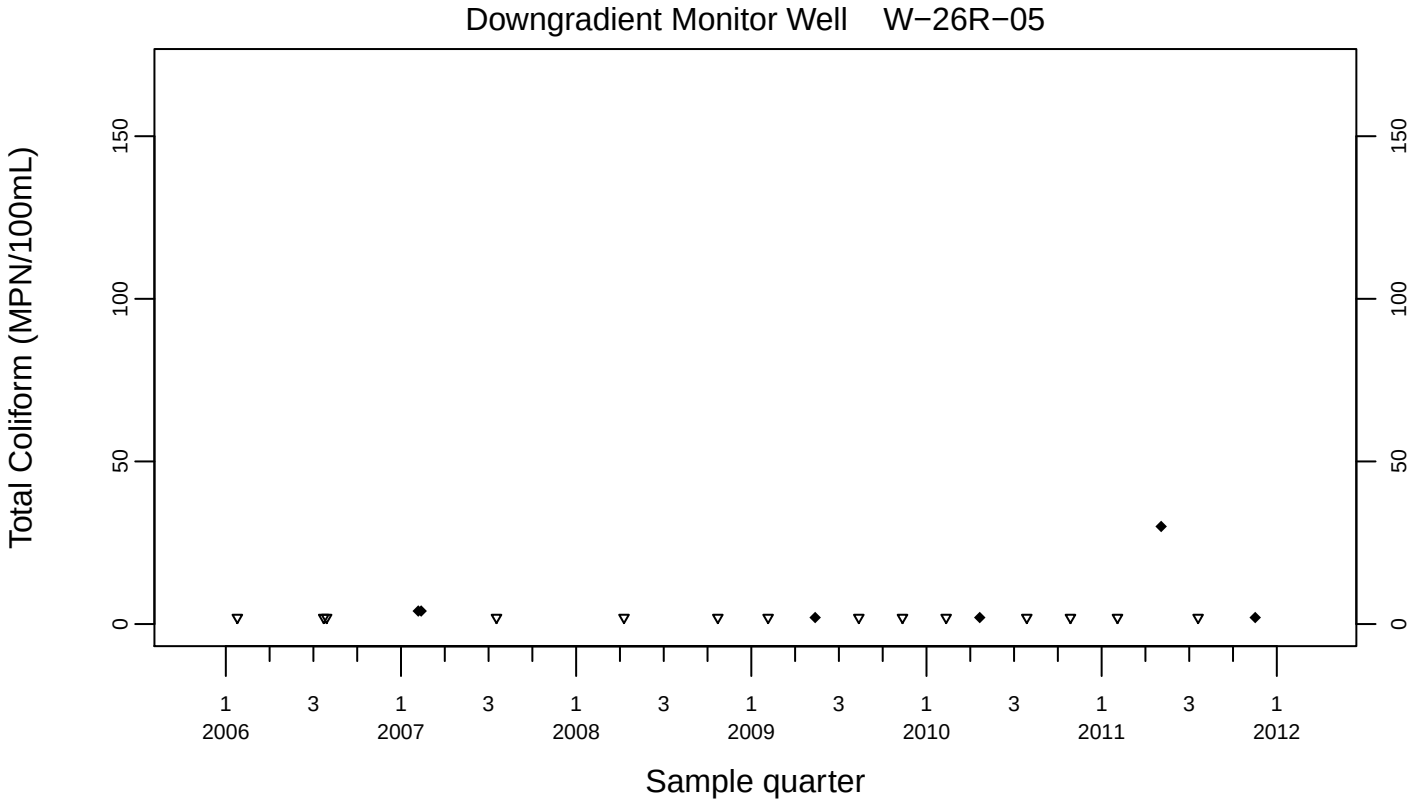

Sewage Ponds Ground Water
Total Coliform (MPN/100mL)
Crossgradient Monitor Well W−35A−04
Above RL
Below RL
Total Coliform (MPN/100mL)
0
50
100
150
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

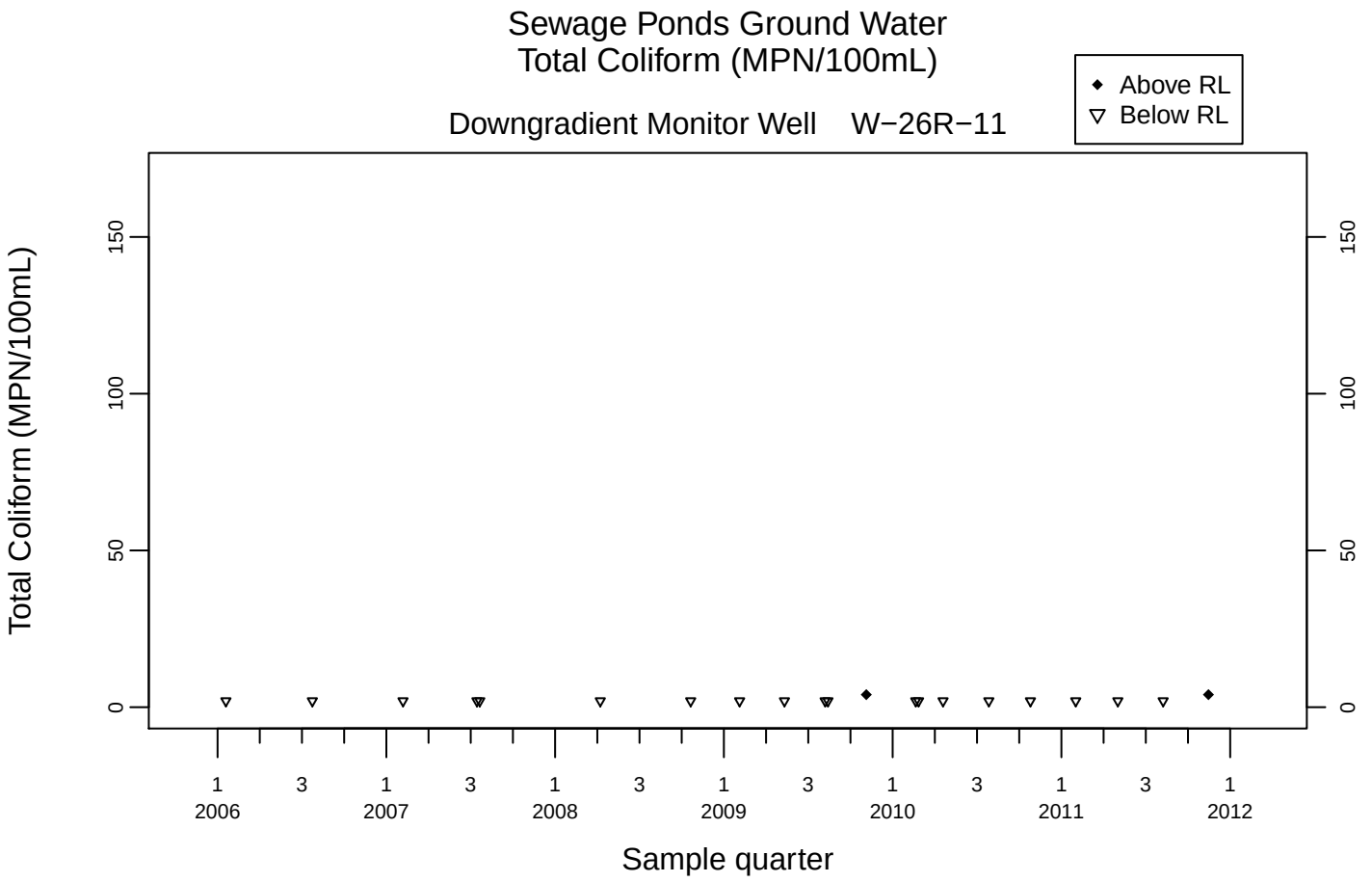

Downgradient Monitor Well W−7DS
Total Coliform (MPN/100mL)
0
50
100
150
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

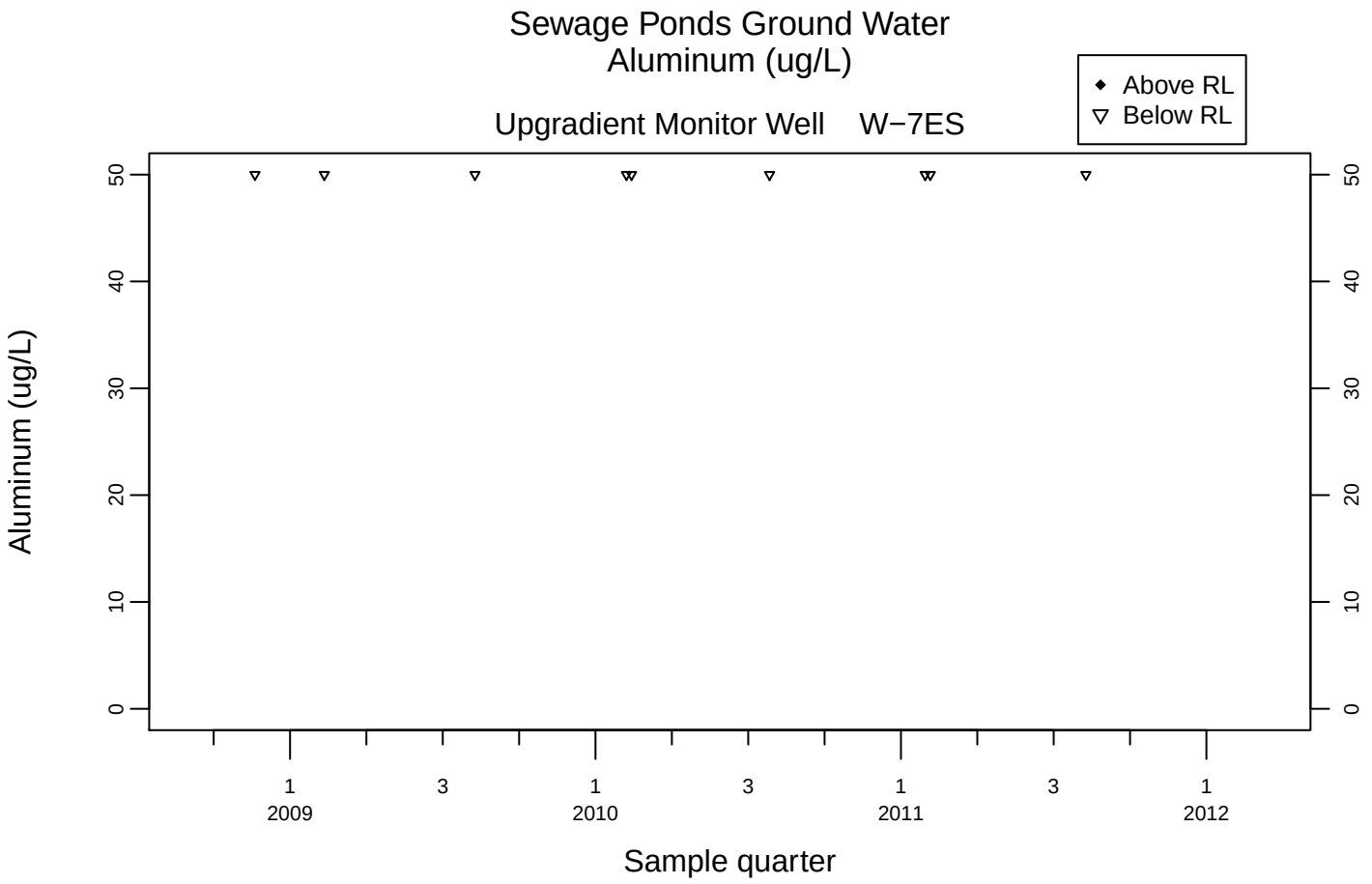

Sewage Ponds Ground Water
Total Coliform (MPN/100mL)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

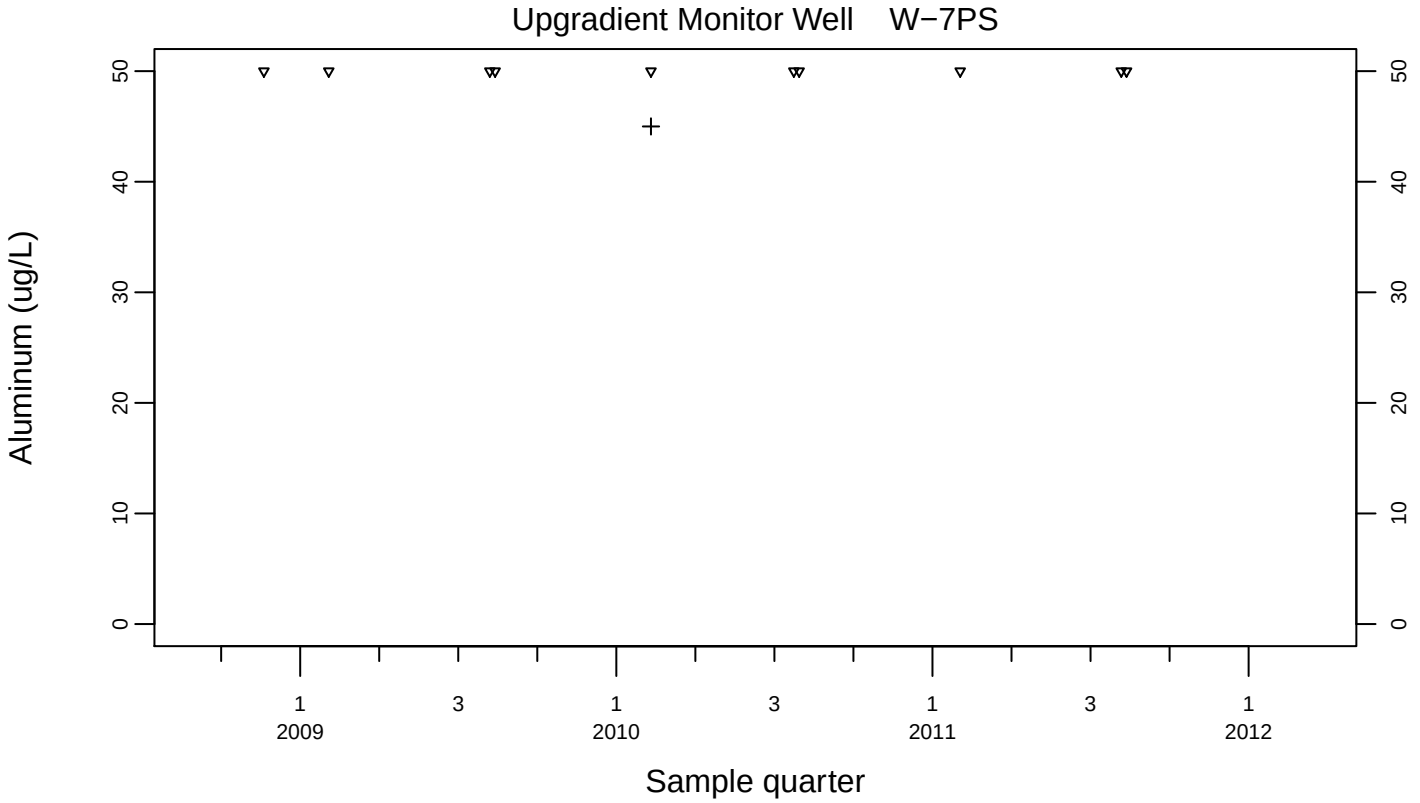

Downgradient Monitor Well W−25N−23
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

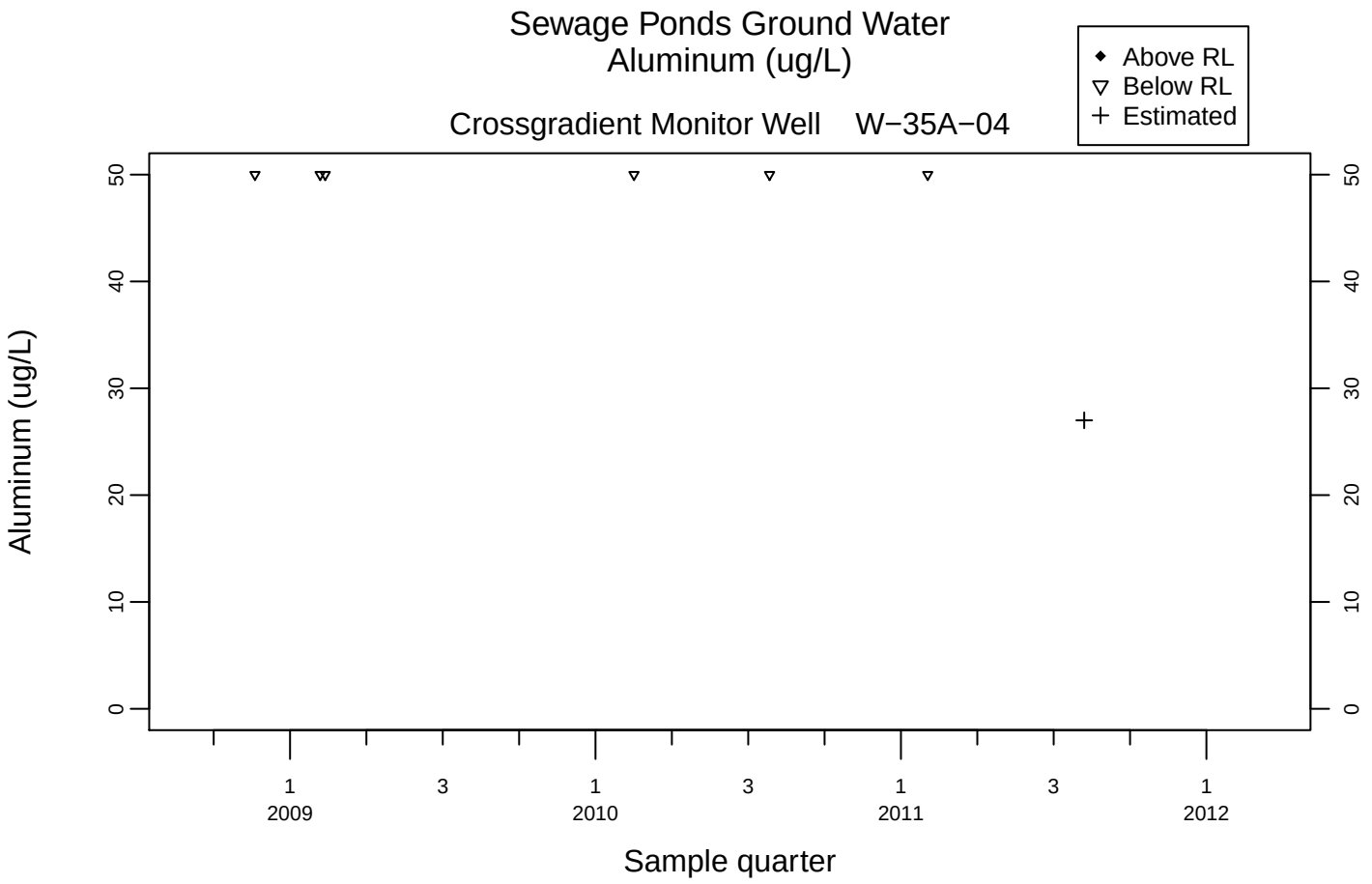

Sewage Ponds Ground Water
Total Coliform (MPN/100mL)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

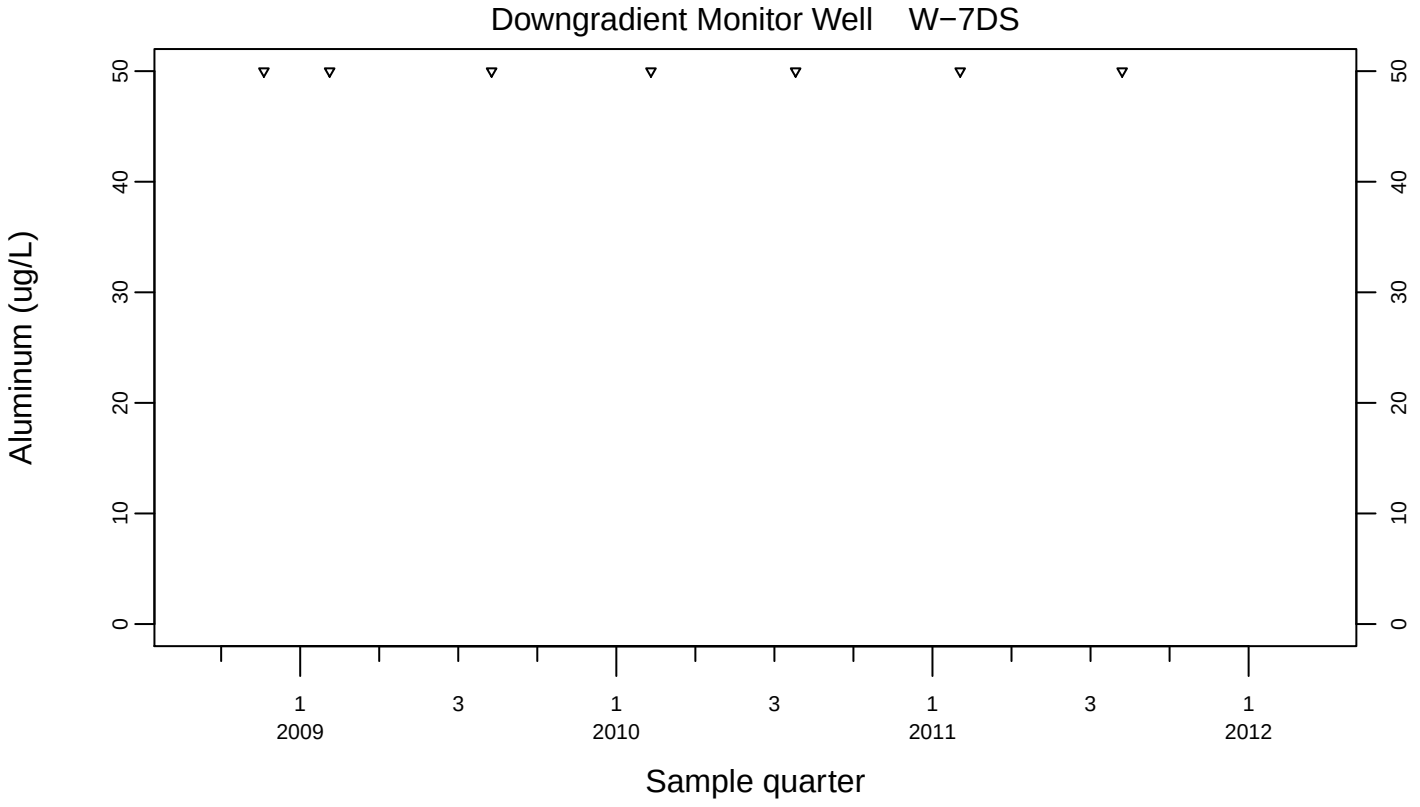

Downgradient Monitor Well W−26R−05
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

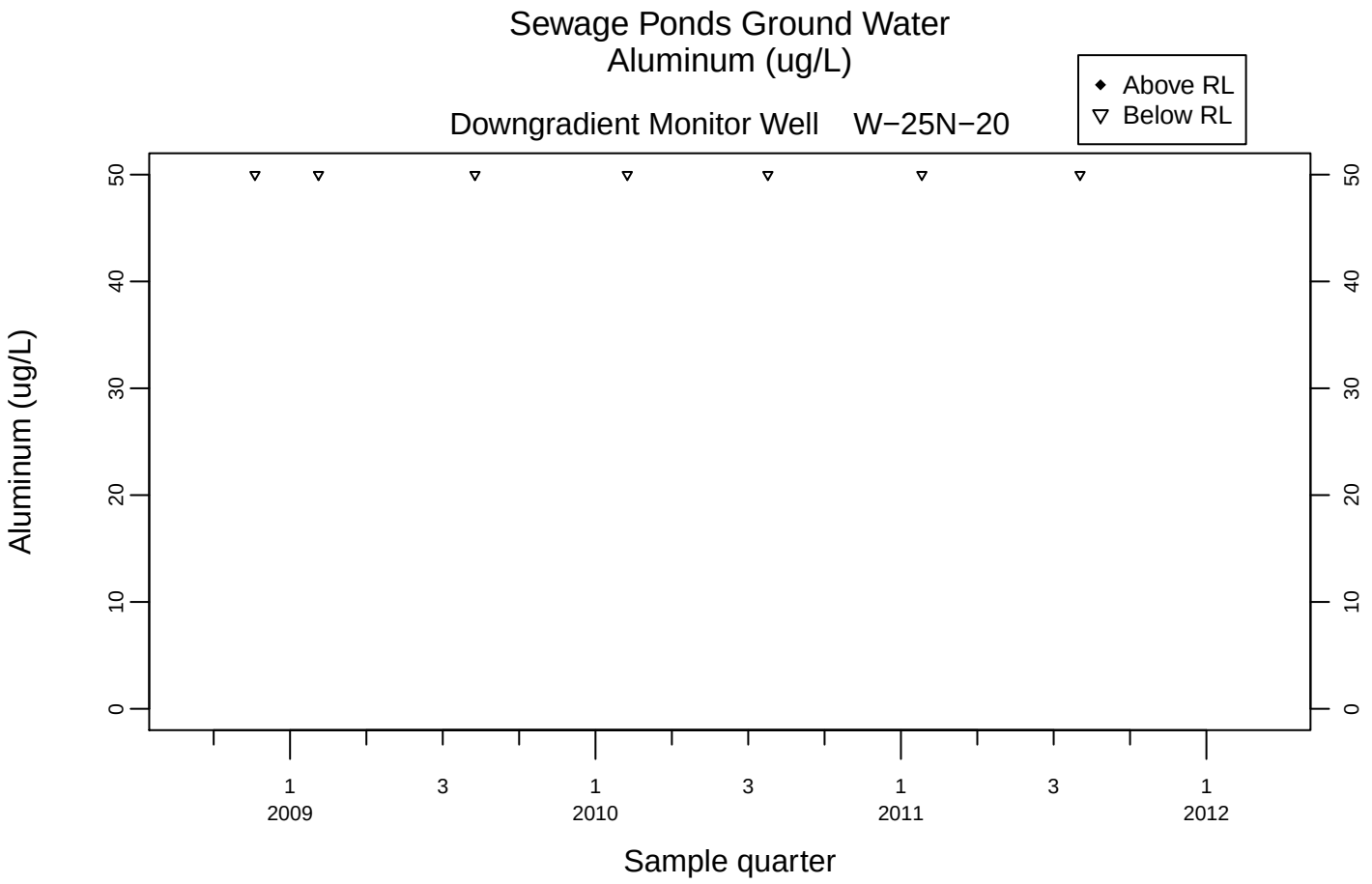

Sewage Ponds Ground Water
Total Coliform (MPN/100mL)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
2012
Sample quarter

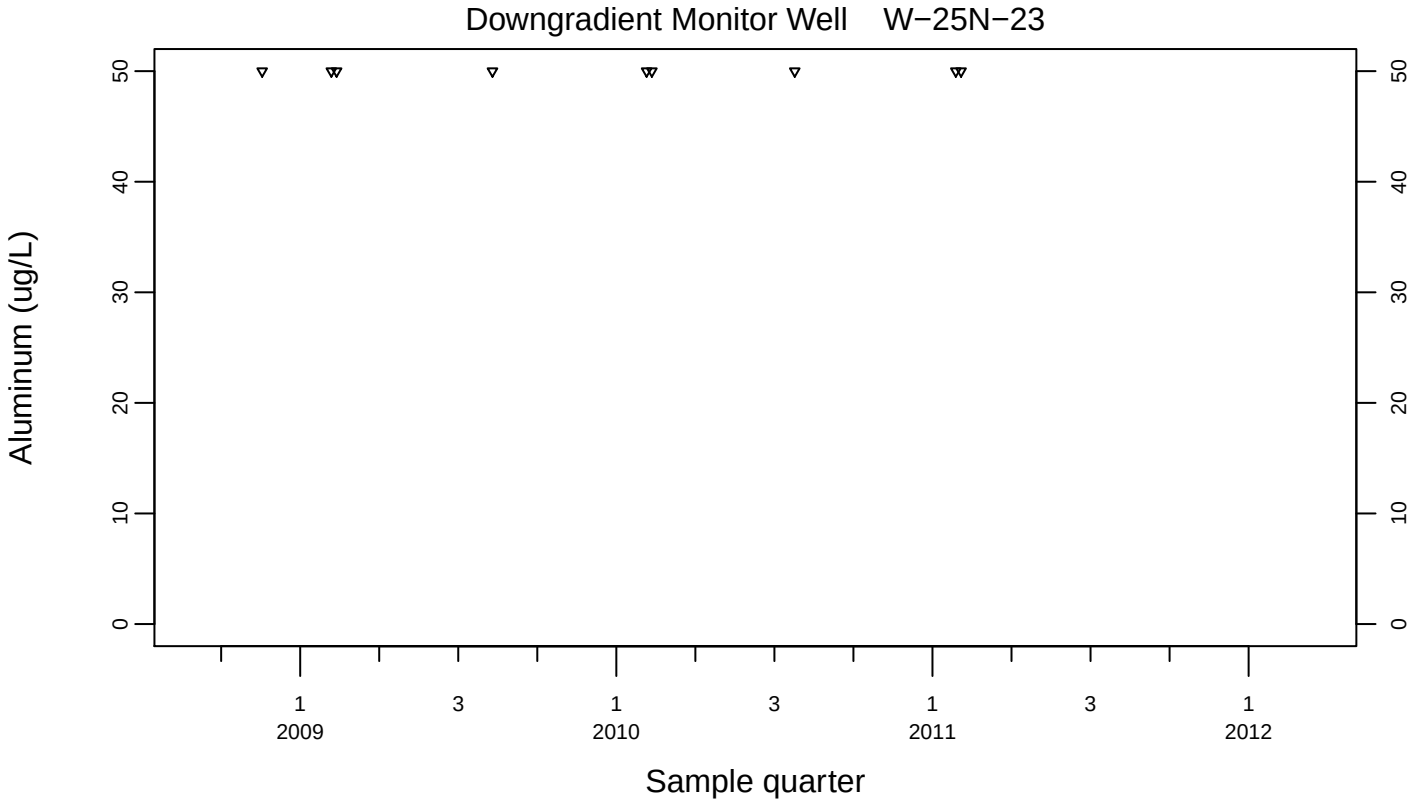

Sewage Ponds Ground Water
Aluminum (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Aluminum (ug/L)
0
10
20
30
40
50
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

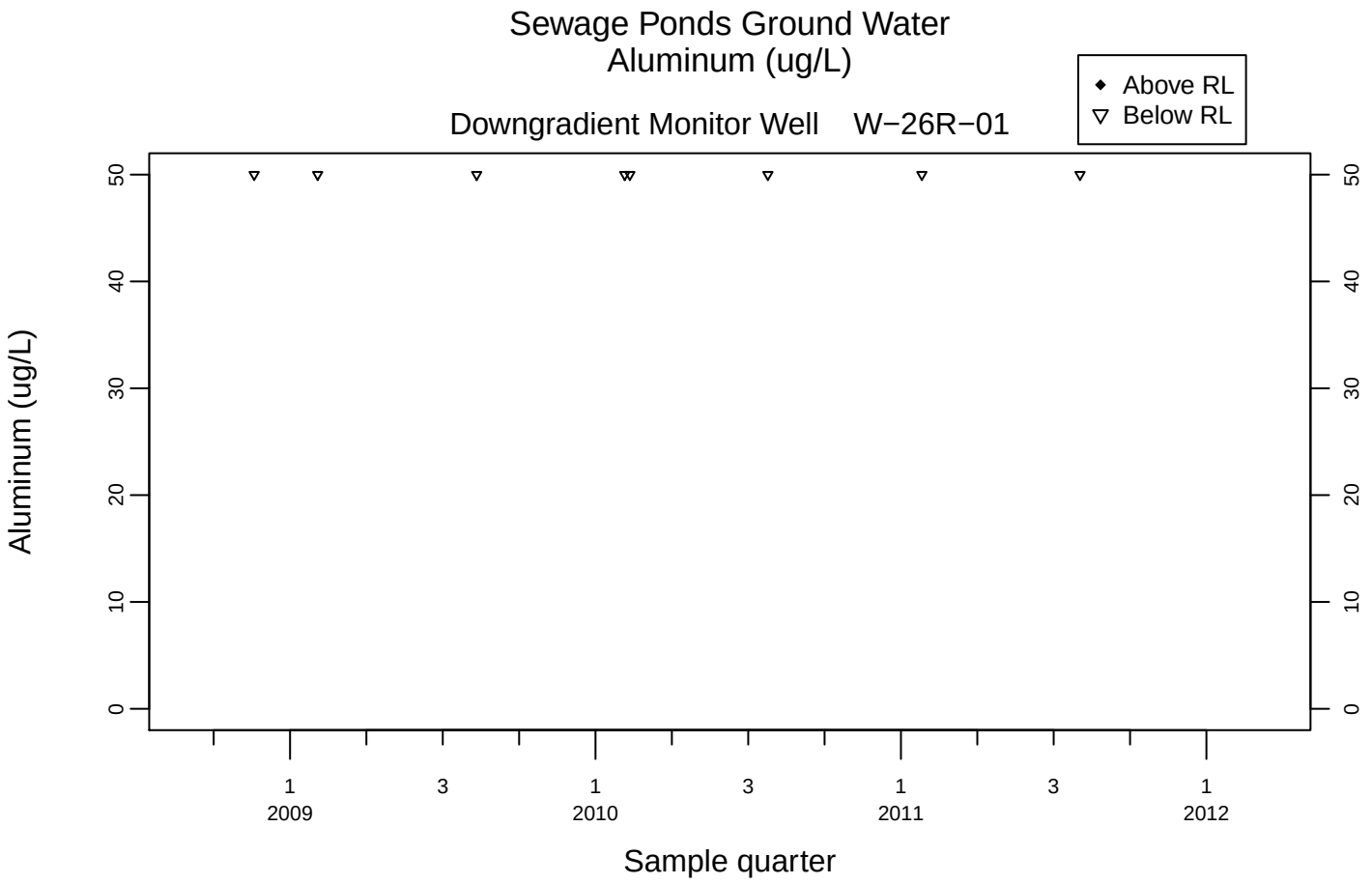

Upgradient Monitor Well W−7PS
Aluminum (ug/L)
0
10
20
30
40
50
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

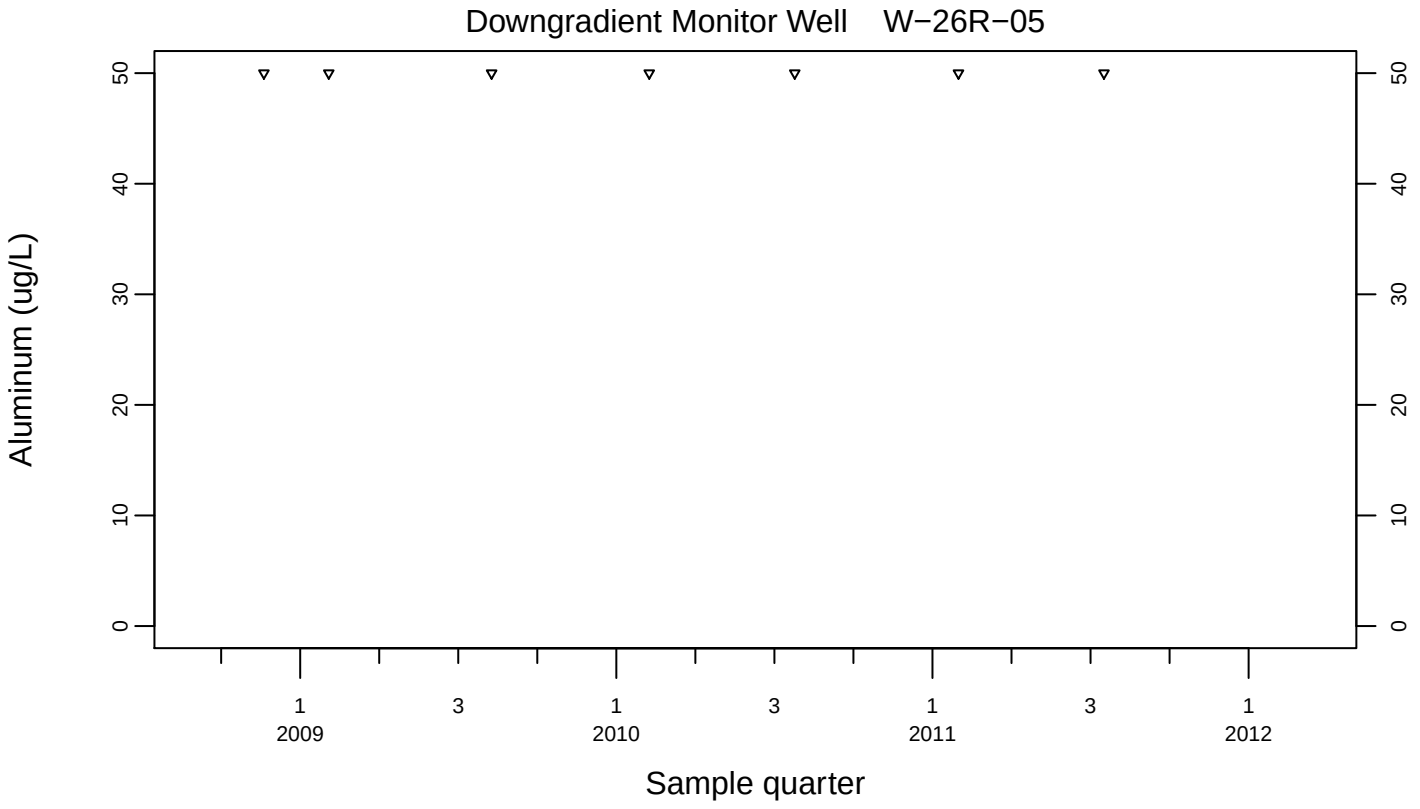

Sewage Ponds Ground Water
Aluminum (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Aluminum (ug/L)
0
10
20
30
40
50
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

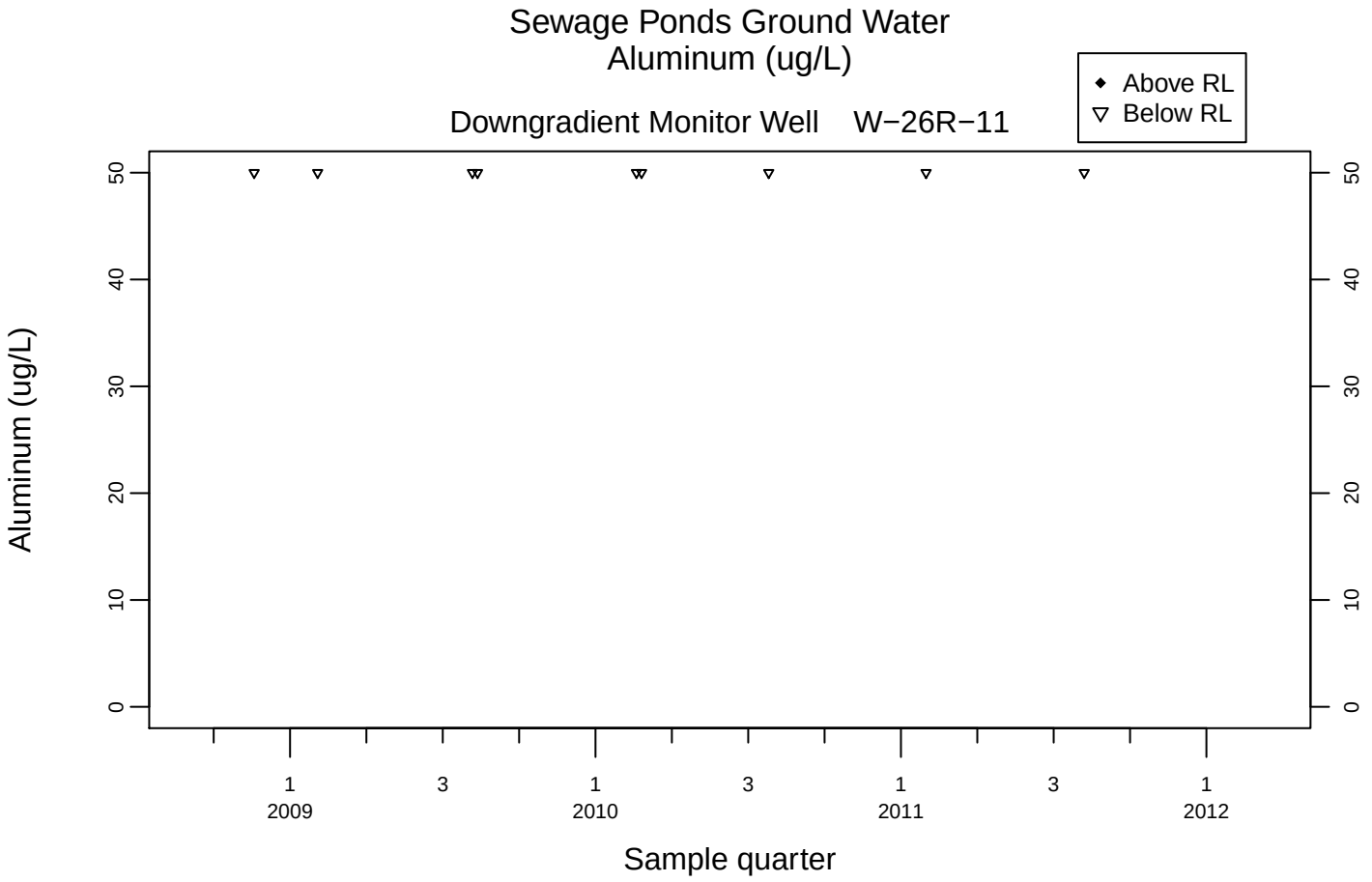

Downgradient Monitor Well W−7DS
Aluminum (ug/L)
0
10
20
30
40
50
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

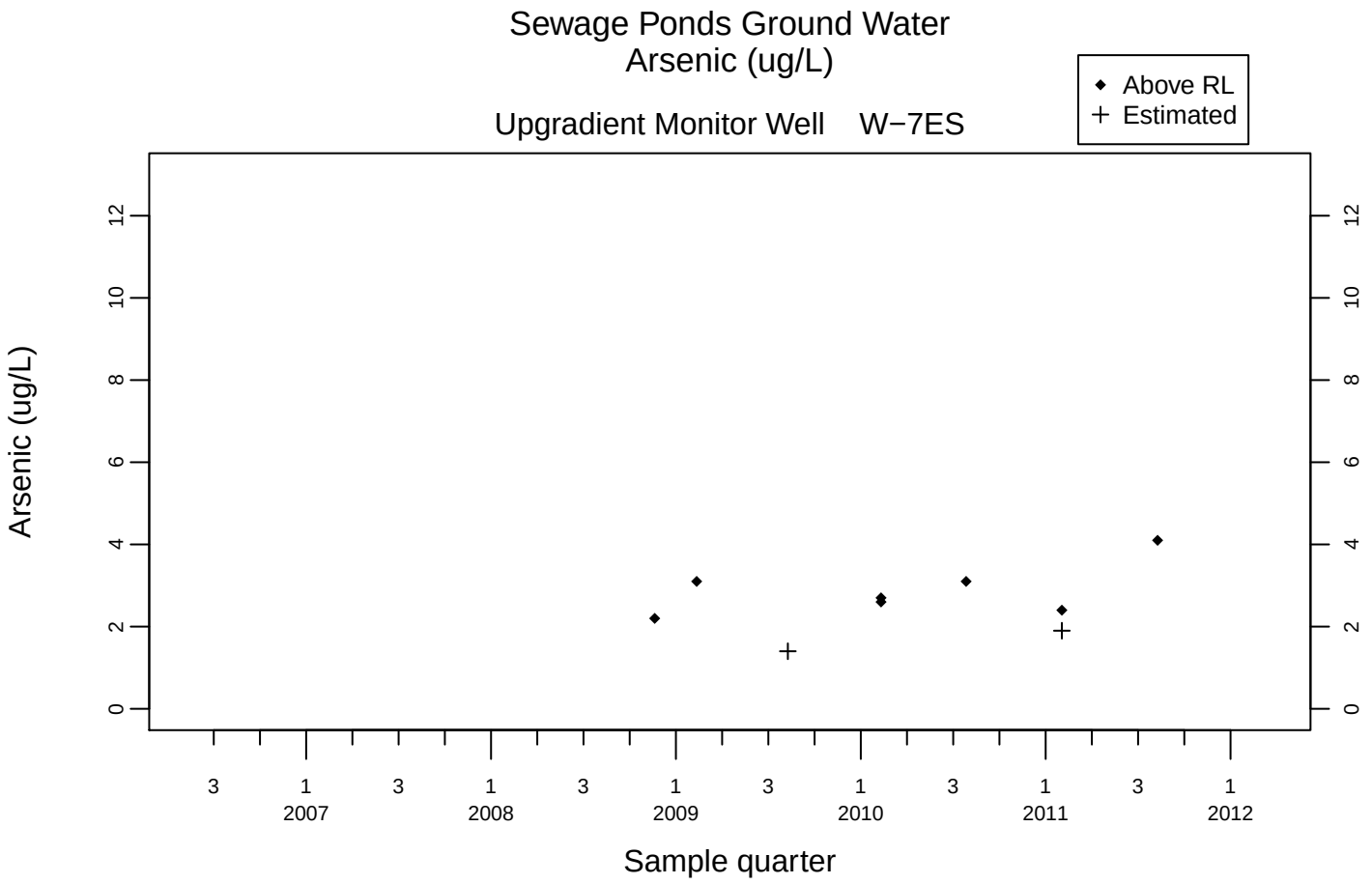

Sewage Ponds Ground Water
Aluminum (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Aluminum (ug/L)
0
10
20
30
40
50
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

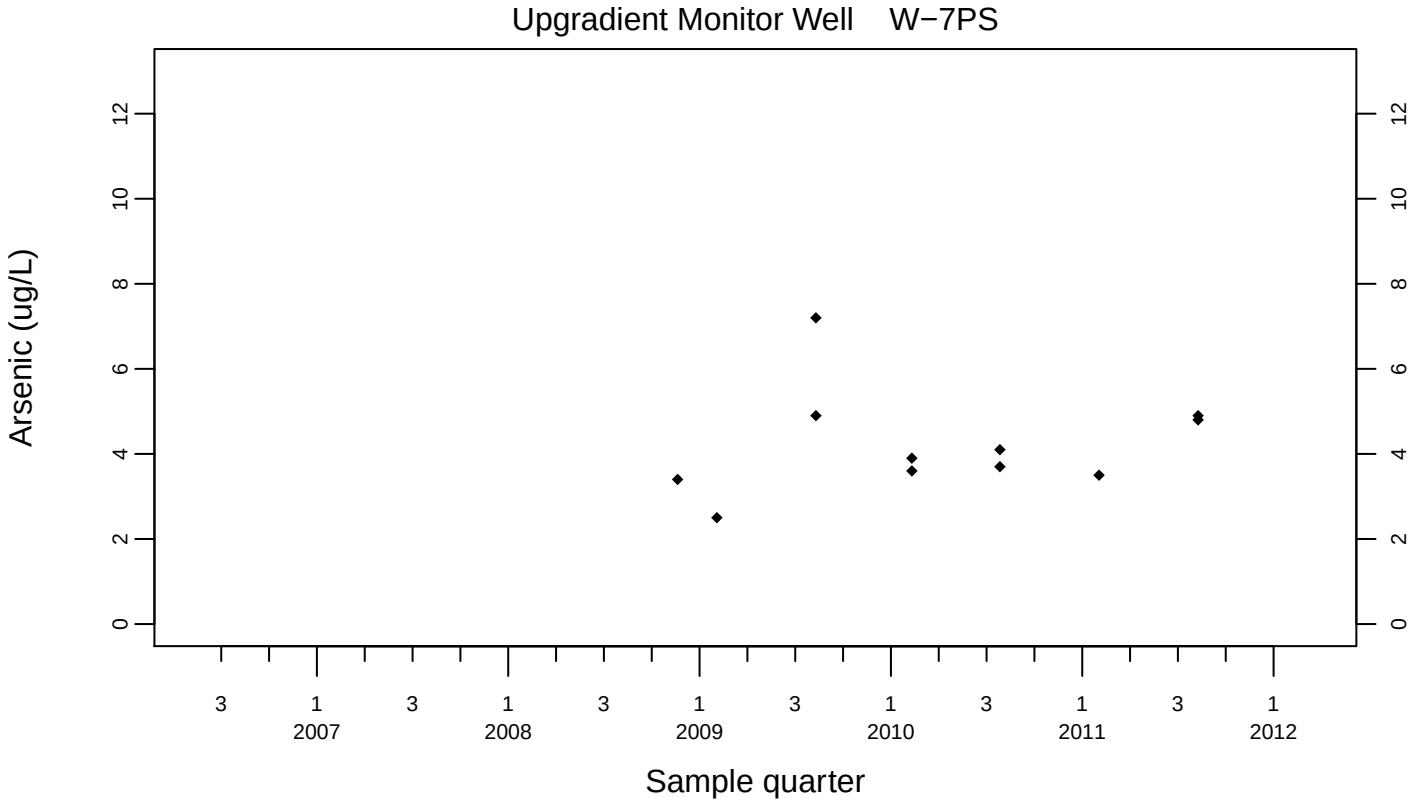

Downgradient Monitor Well W−25N−23
Aluminum (ug/L)
0
10
20
30
40
50
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

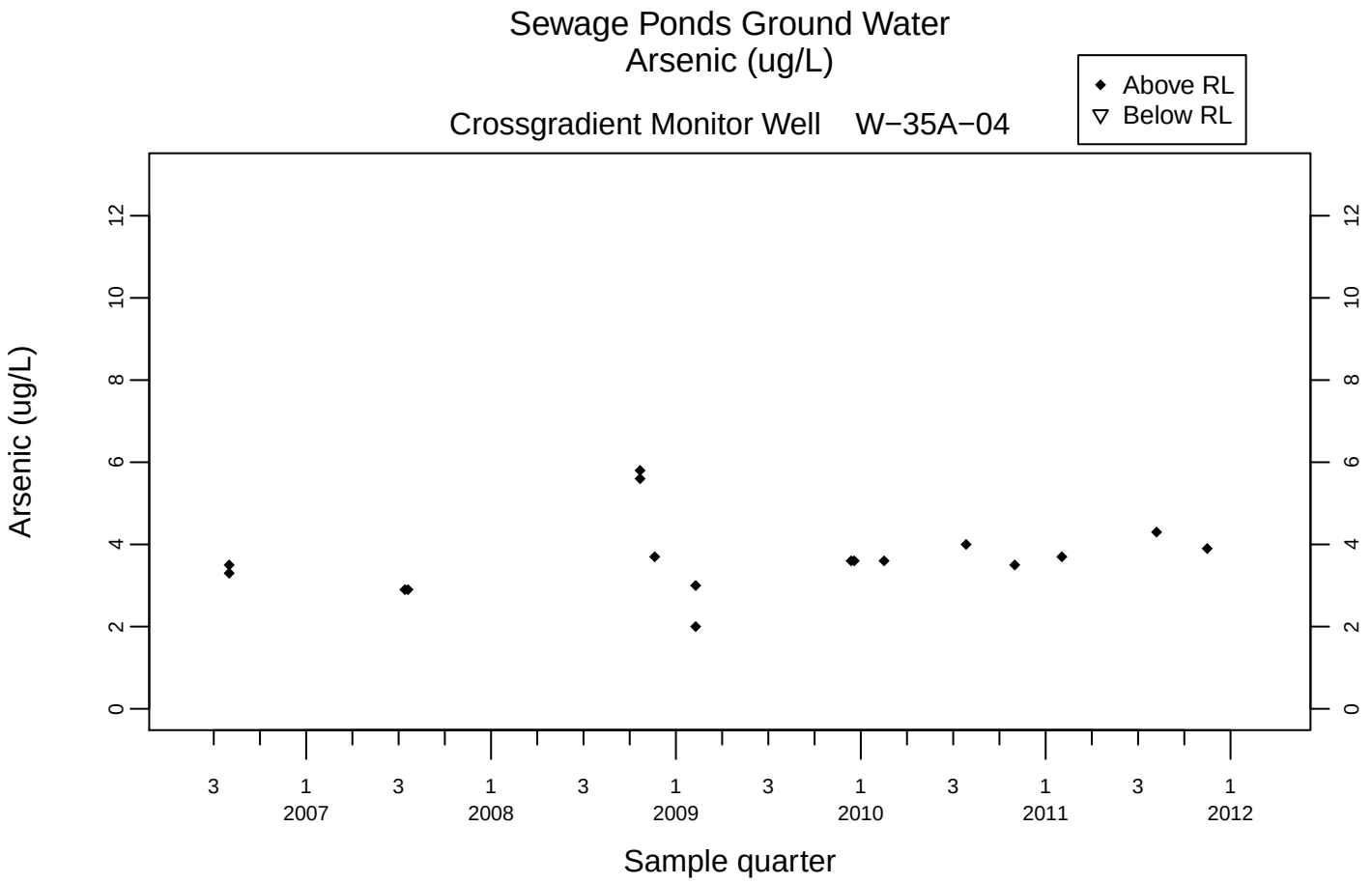

Sewage Ponds Ground Water
Aluminum (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Aluminum (ug/L)
0
10
20
30
40
50
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

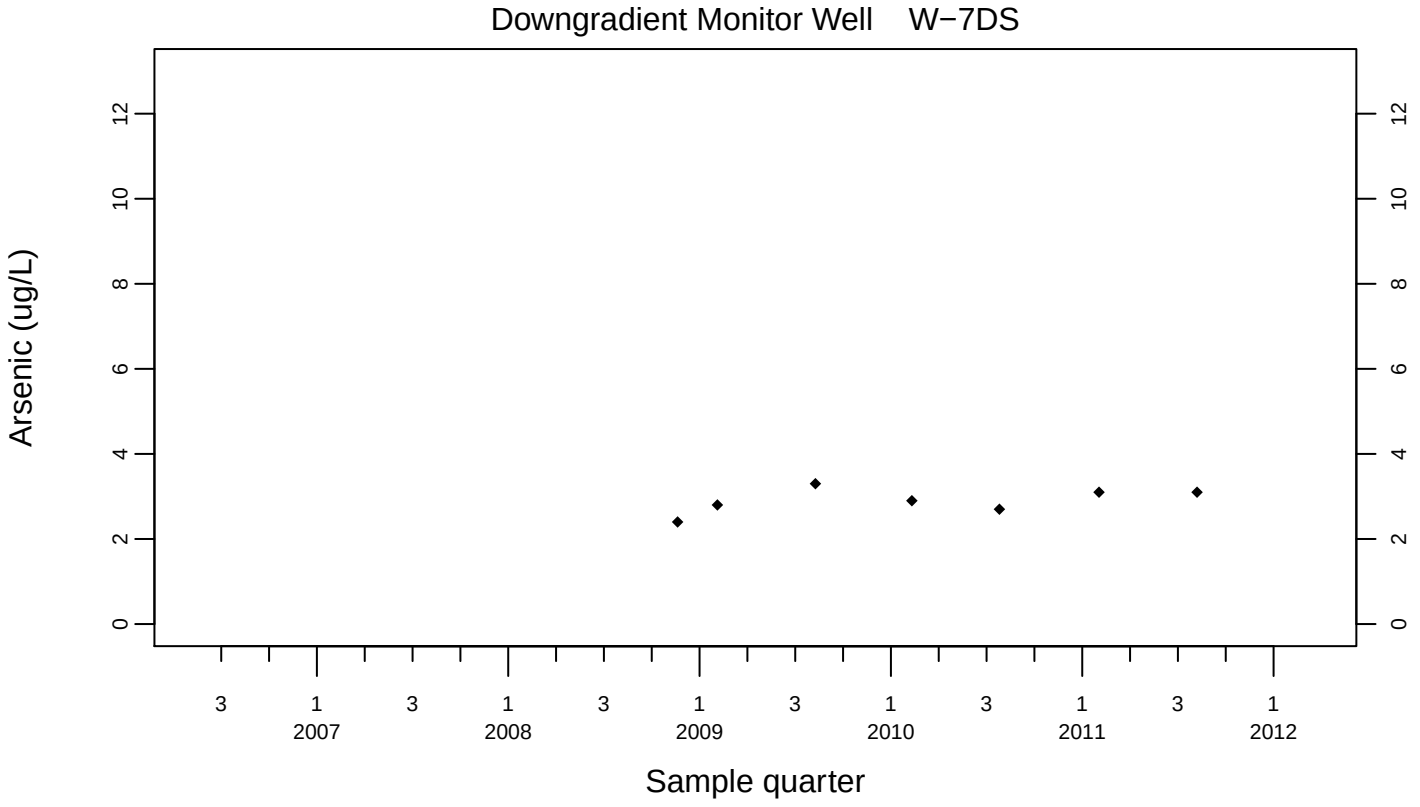

Downgradient Monitor Well W−26R−05
Aluminum (ug/L)
0
10
20
30
40
50
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

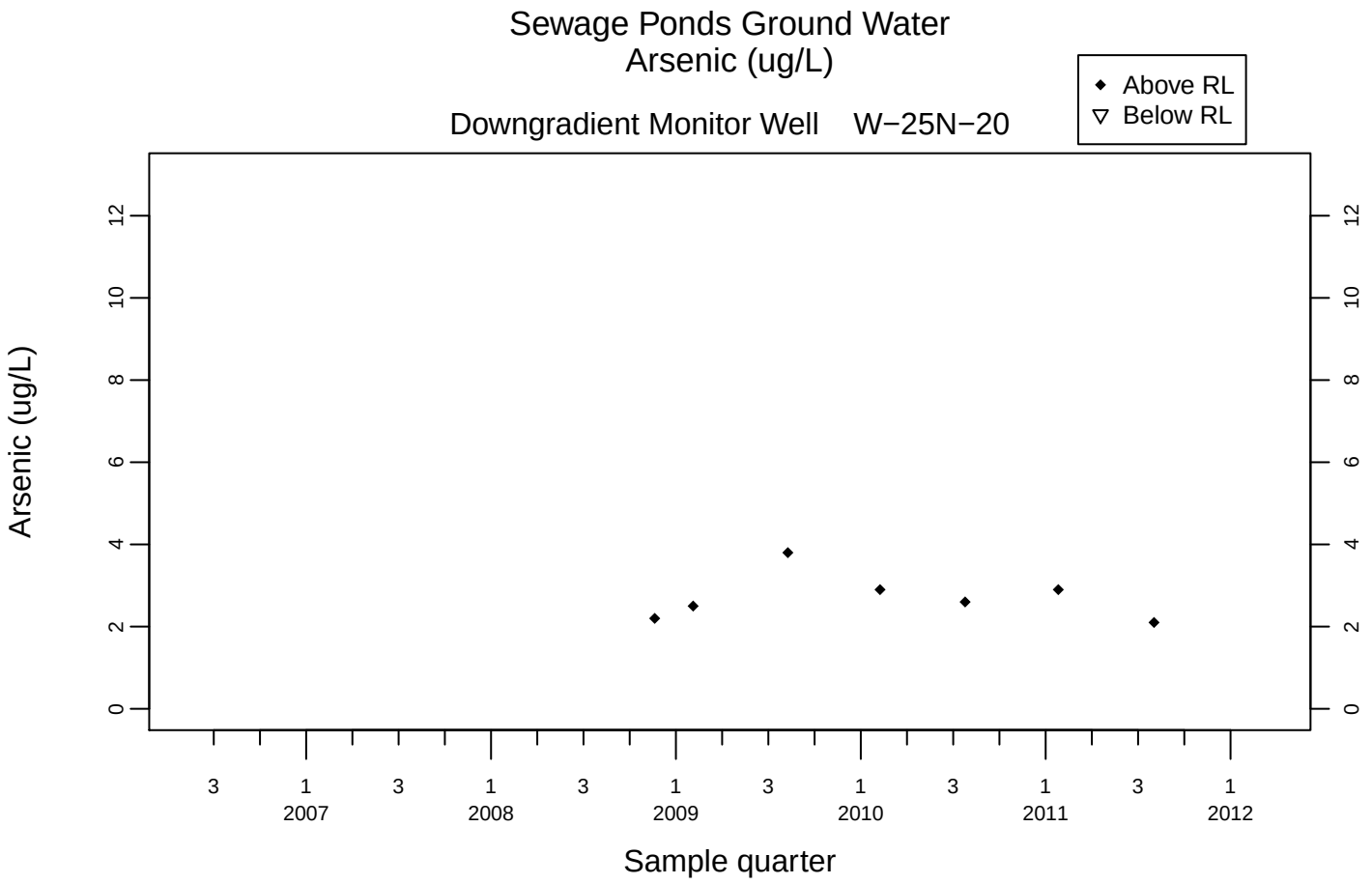

Sewage Ponds Ground Water
Aluminum (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Aluminum (ug/L)
0
10
20
30
40
50
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

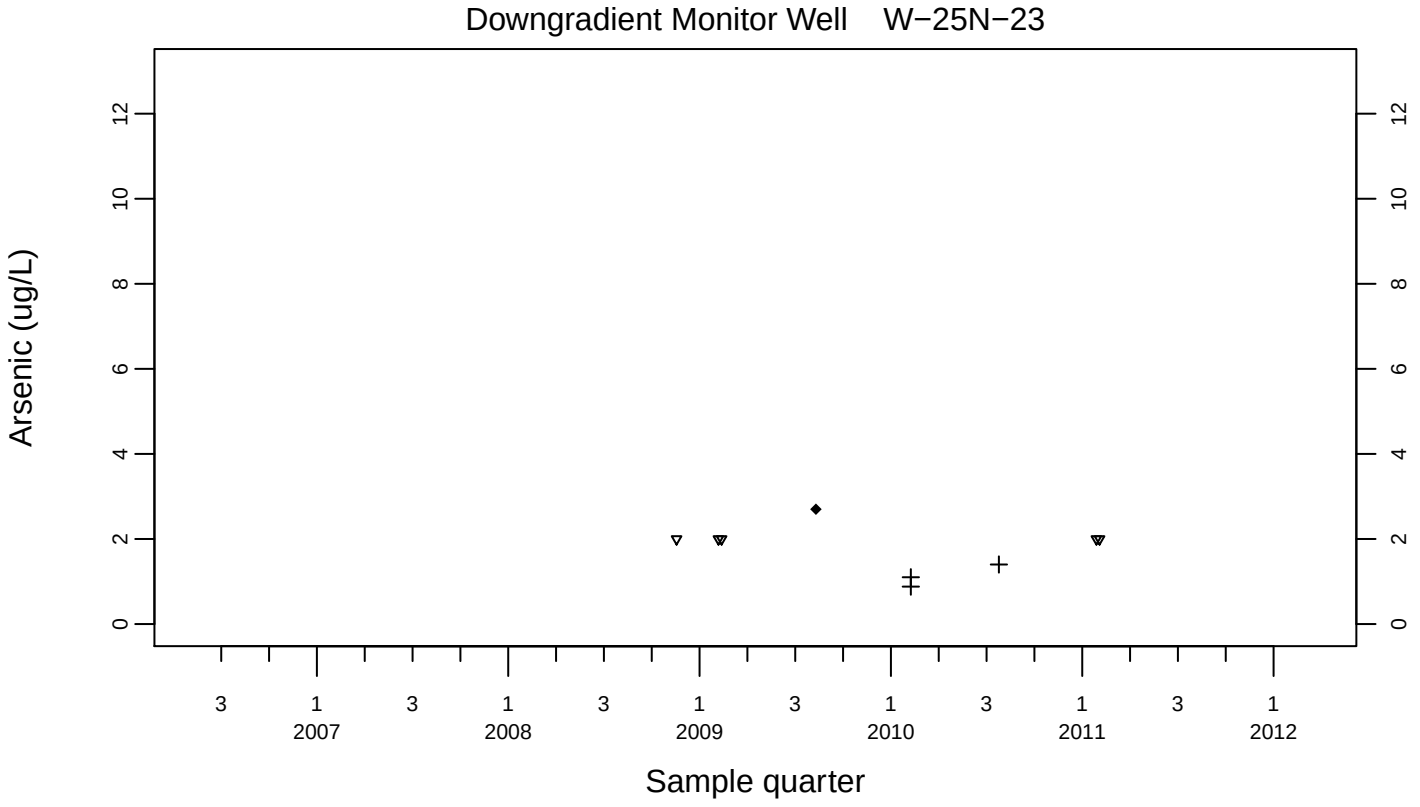

Sewage Ponds Ground Water
Arsenic (ug/L)
Above RL
Estimated
Upgradient Monitor Well W−7ES
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

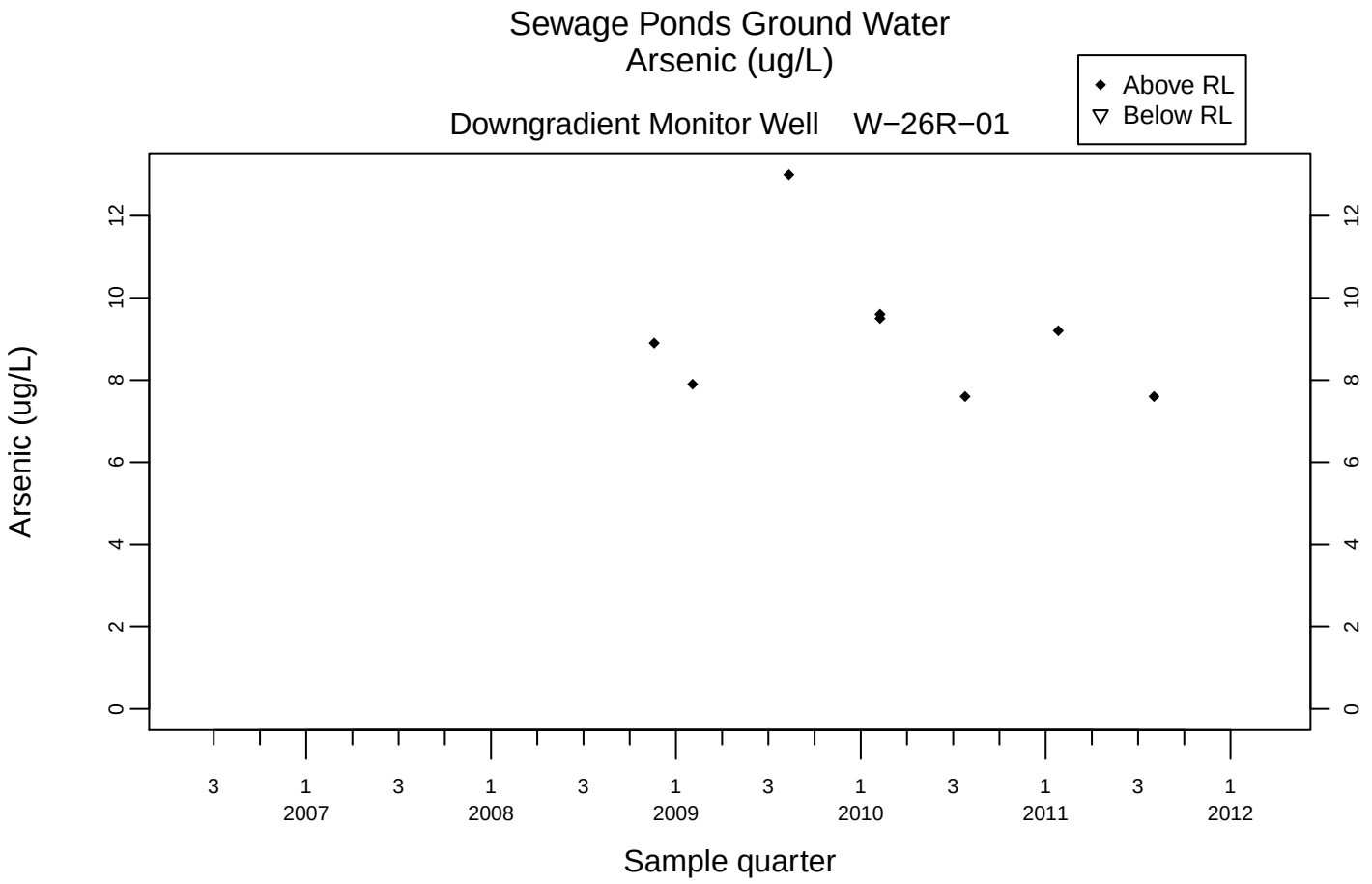

Upgradient Monitor Well W−7PS
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

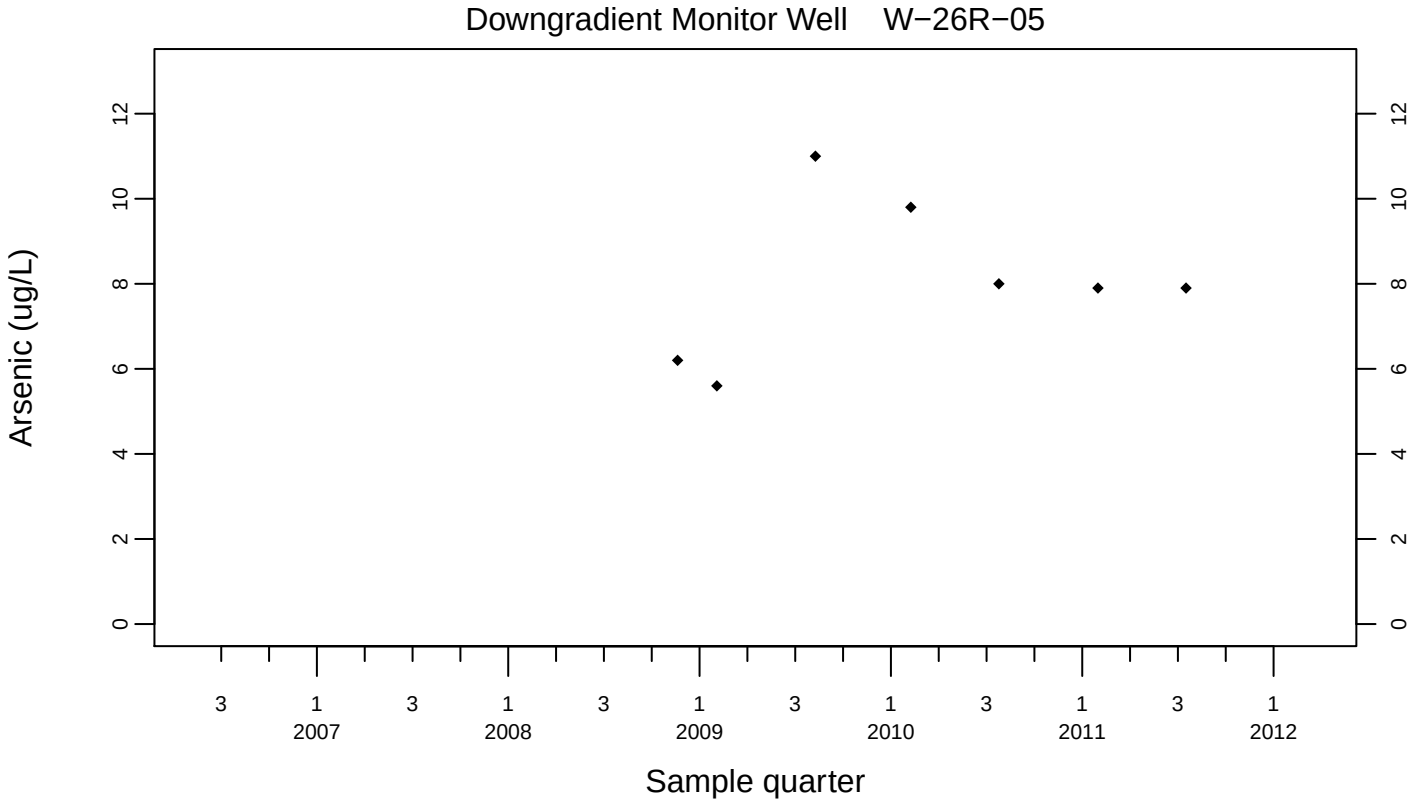

Sewage Ponds Ground Water
Arsenic (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

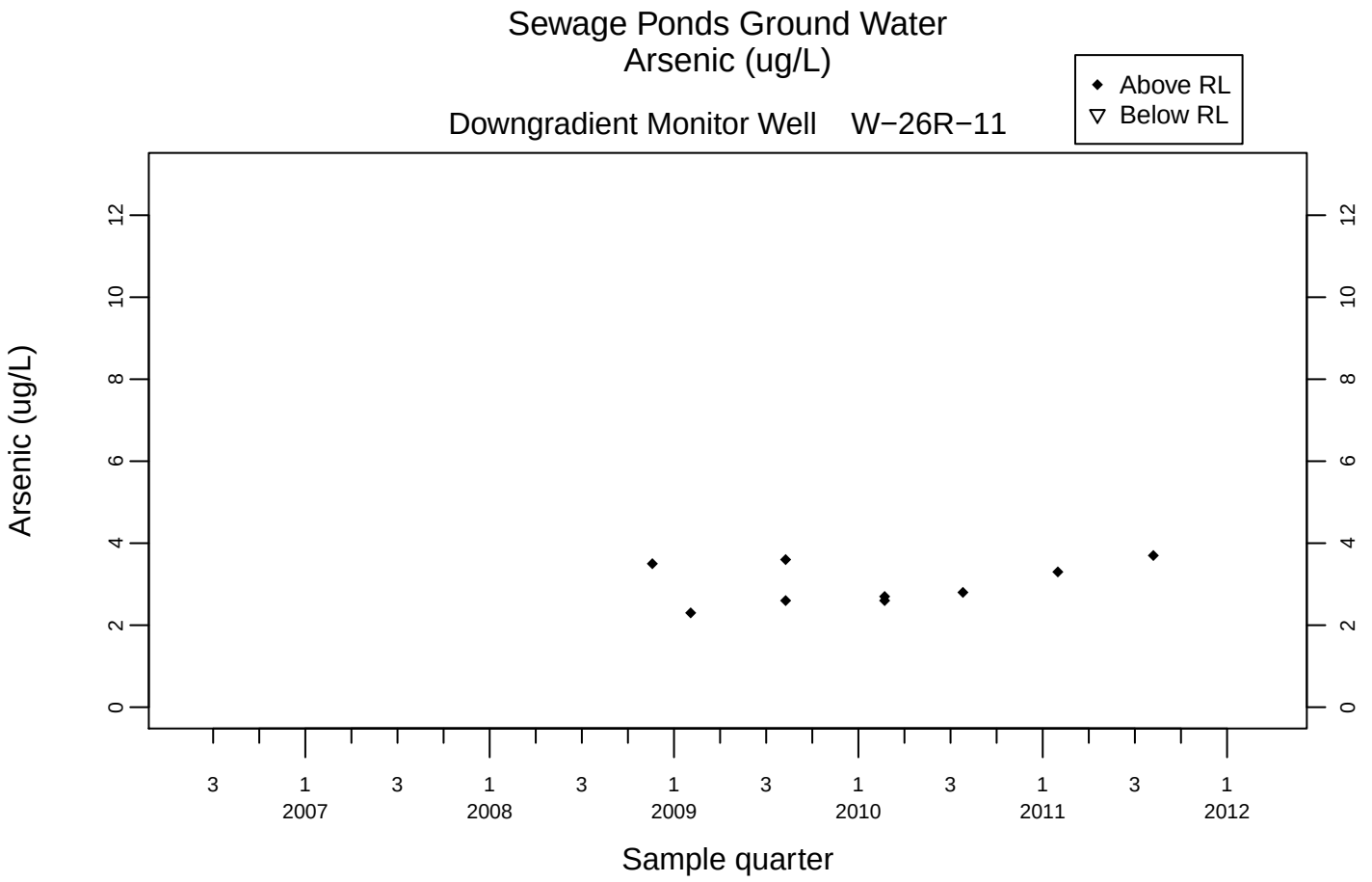

Downgradient Monitor Well W−7DS
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

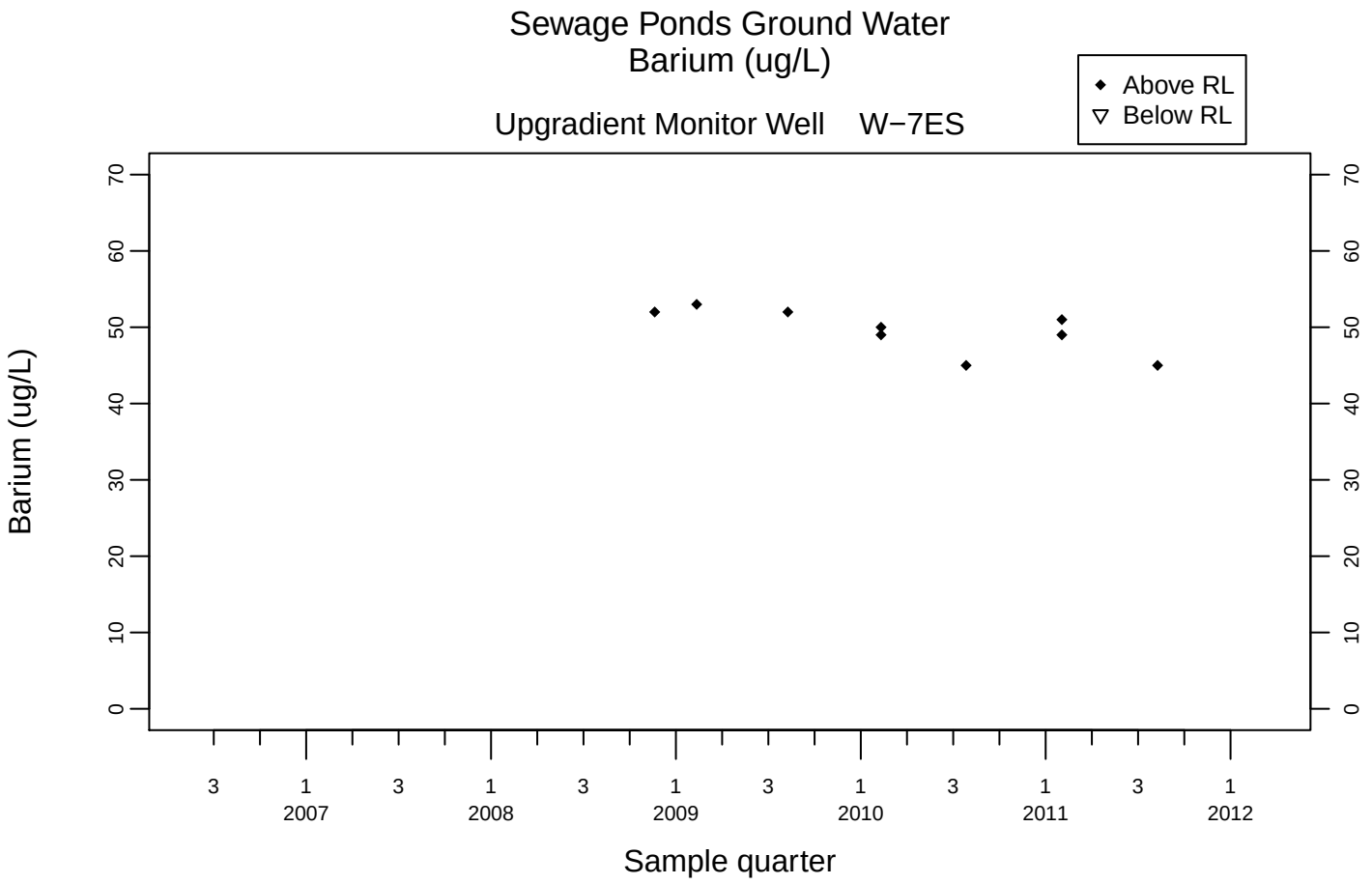

Sewage Ponds Ground Water
Arsenic (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

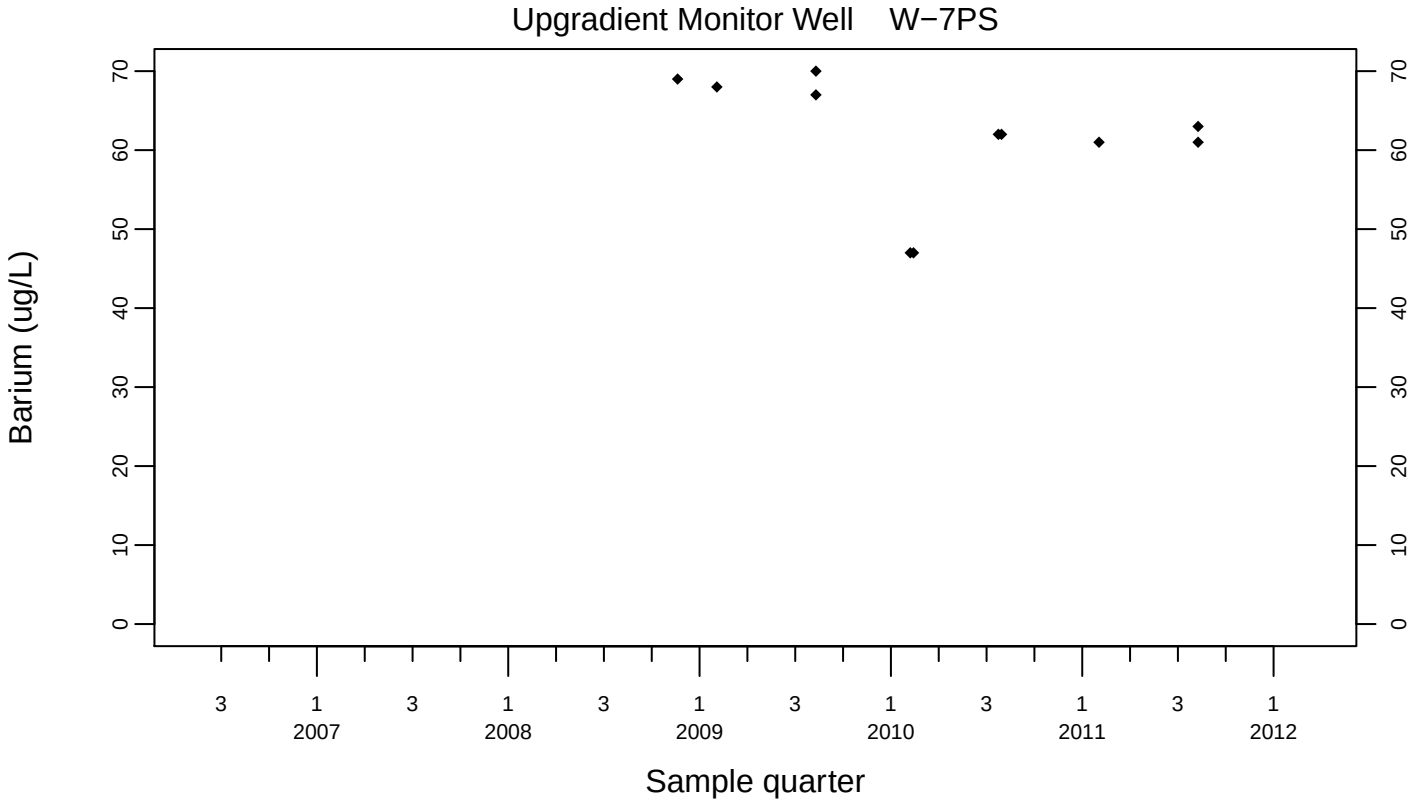

Downgradient Monitor Well W−25N−23
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

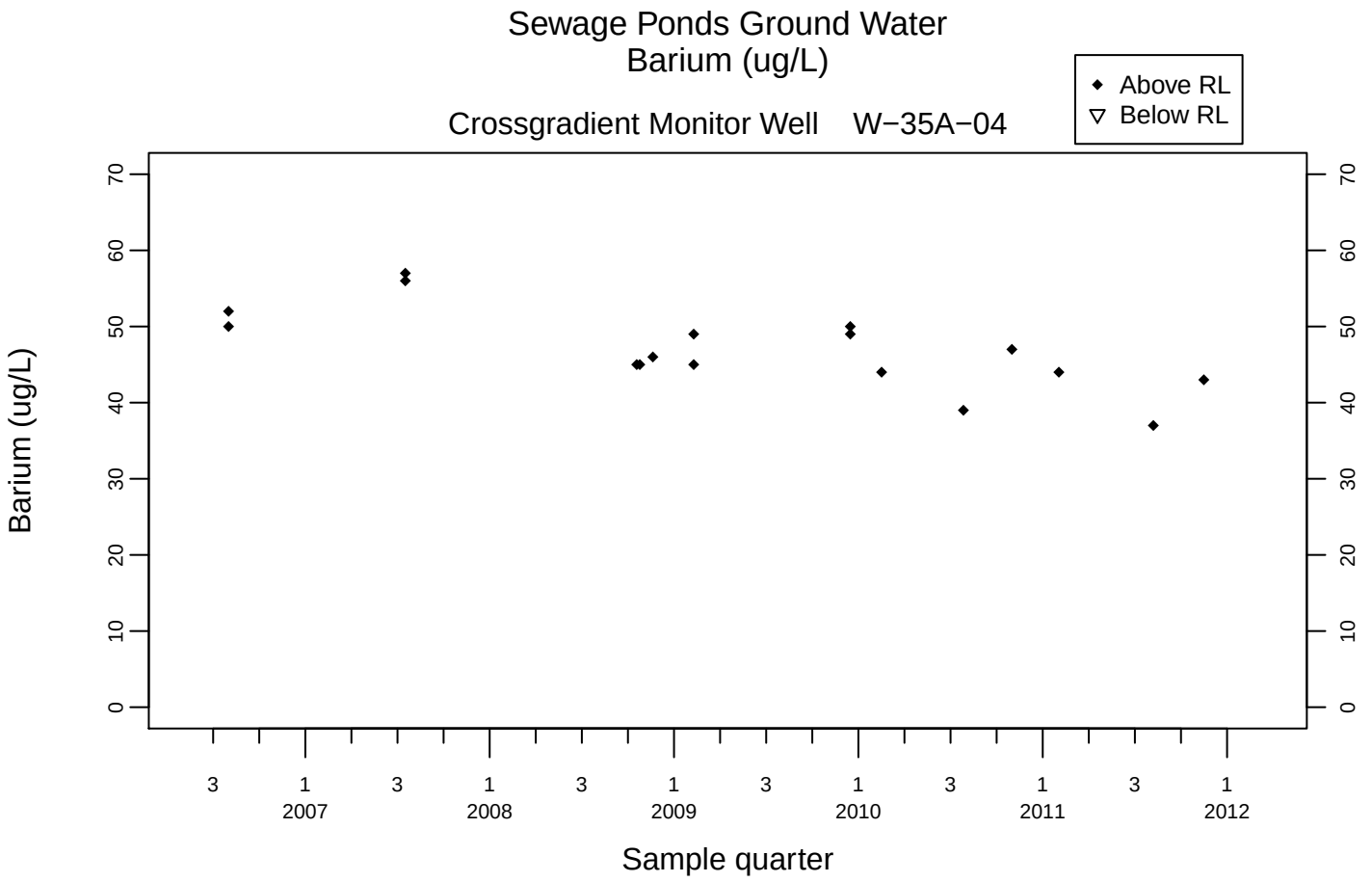

Sewage Ponds Ground Water
Arsenic (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

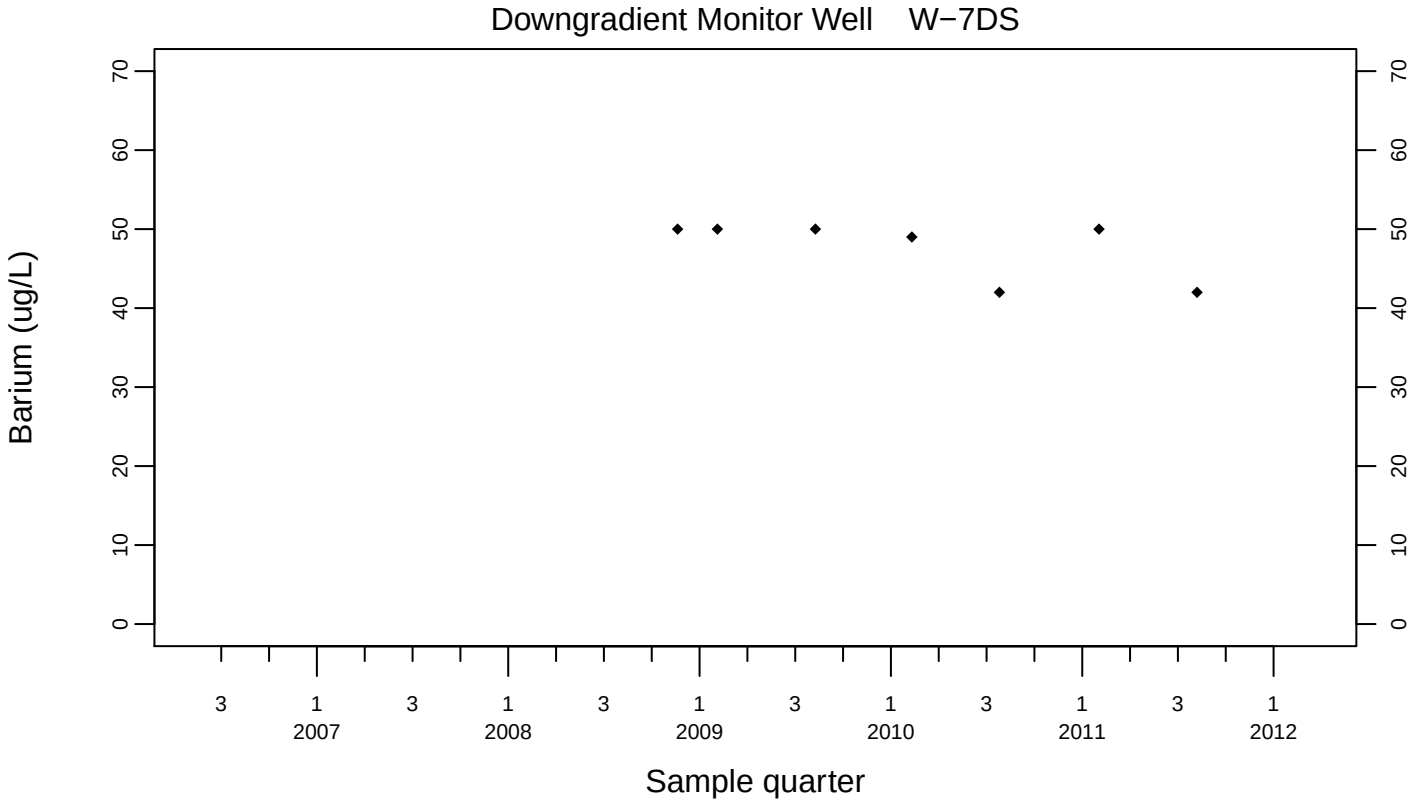

Downgradient Monitor Well W−26R−05
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

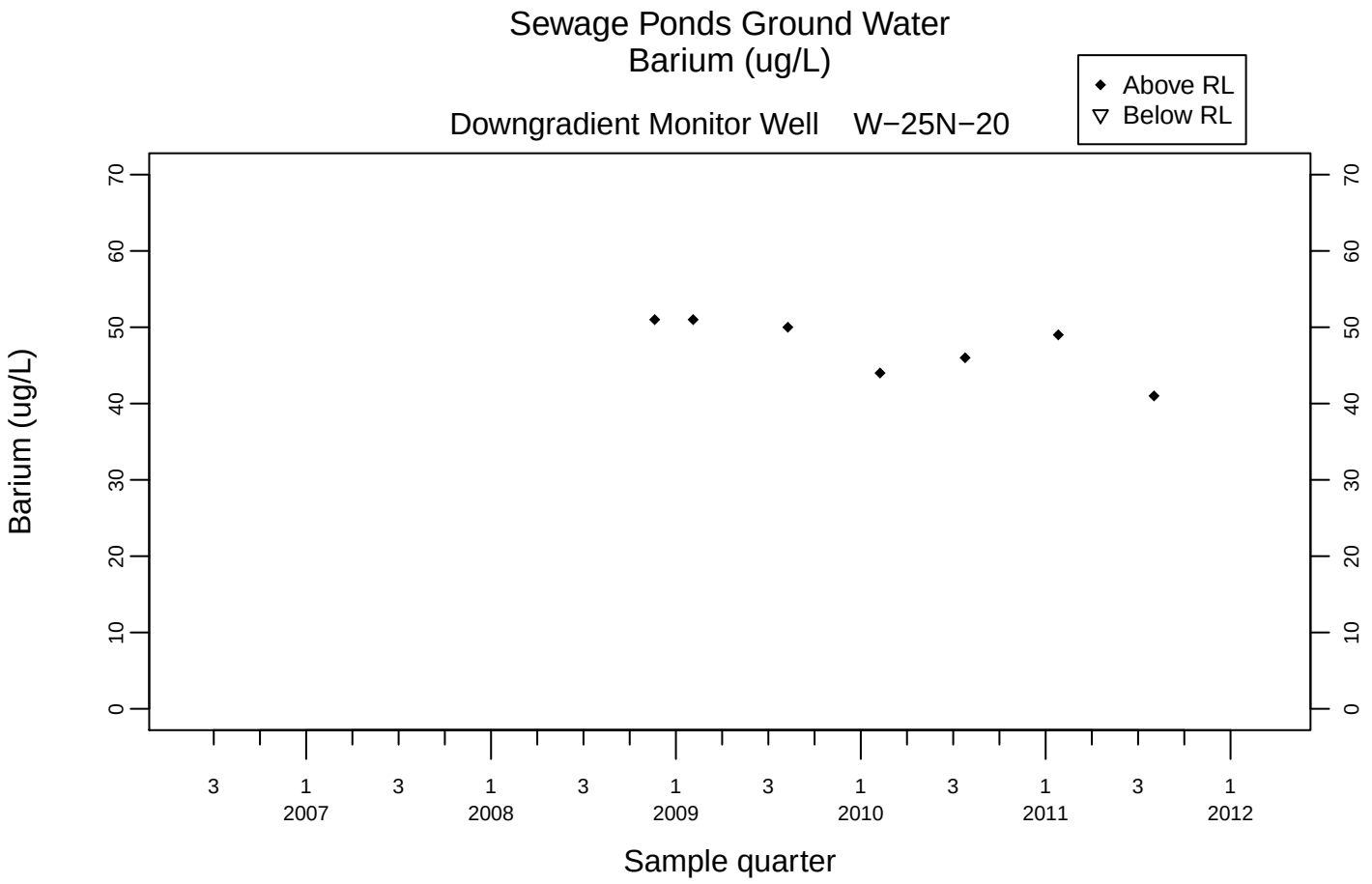

Sewage Ponds Ground Water
Arsenic (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

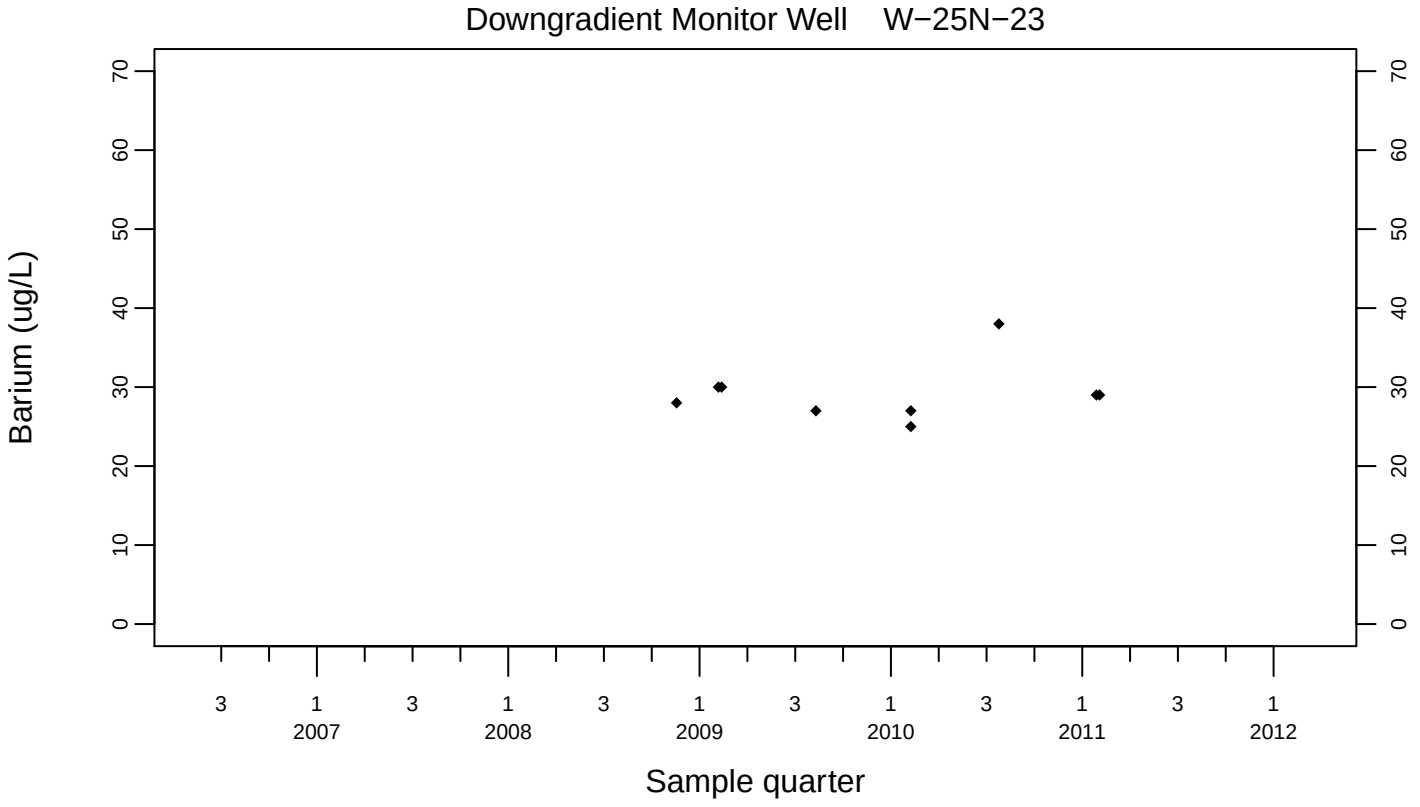

Sewage Ponds Ground Water
Barium (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

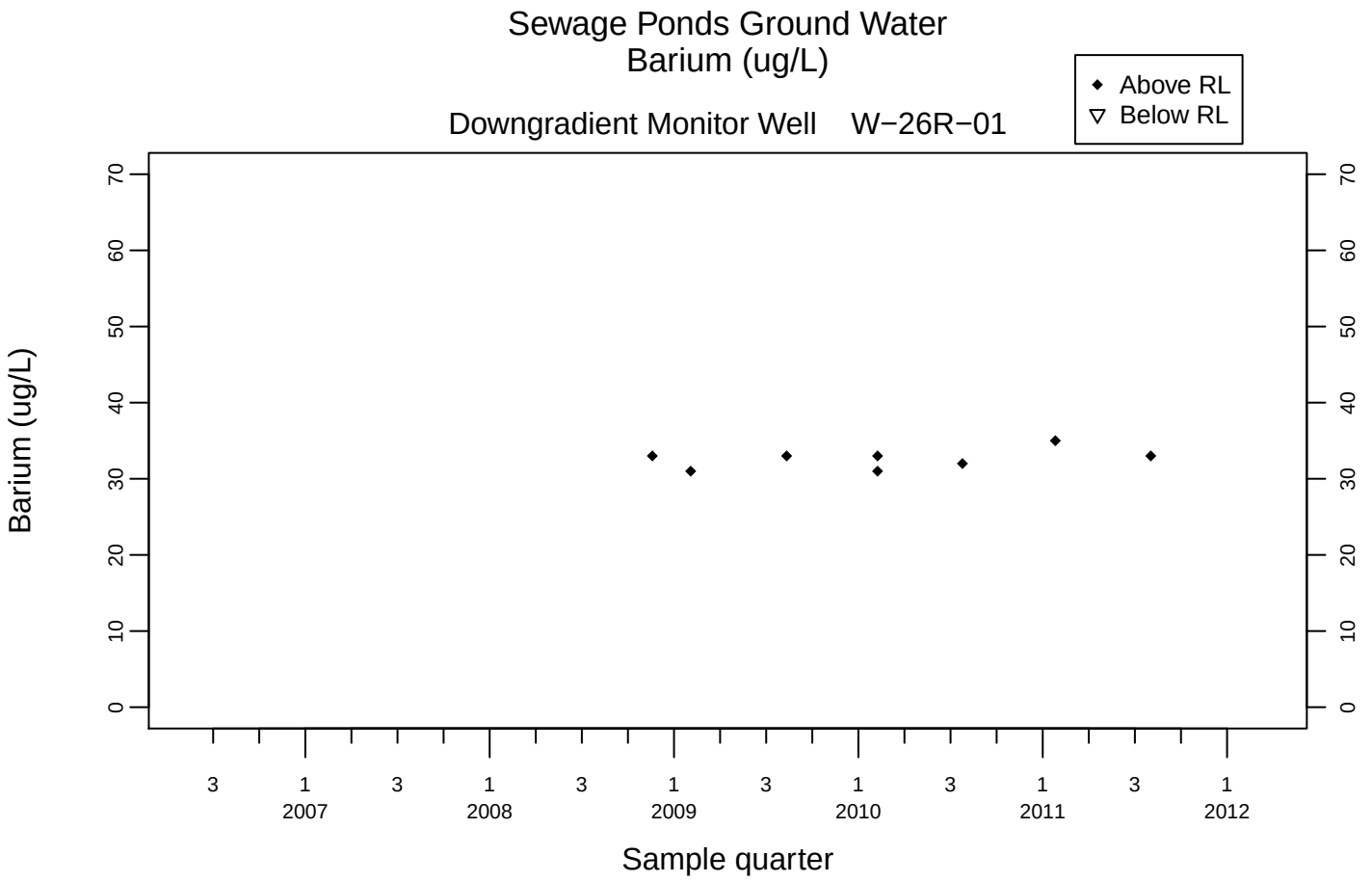

Upgradient Monitor Well W−7PS
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

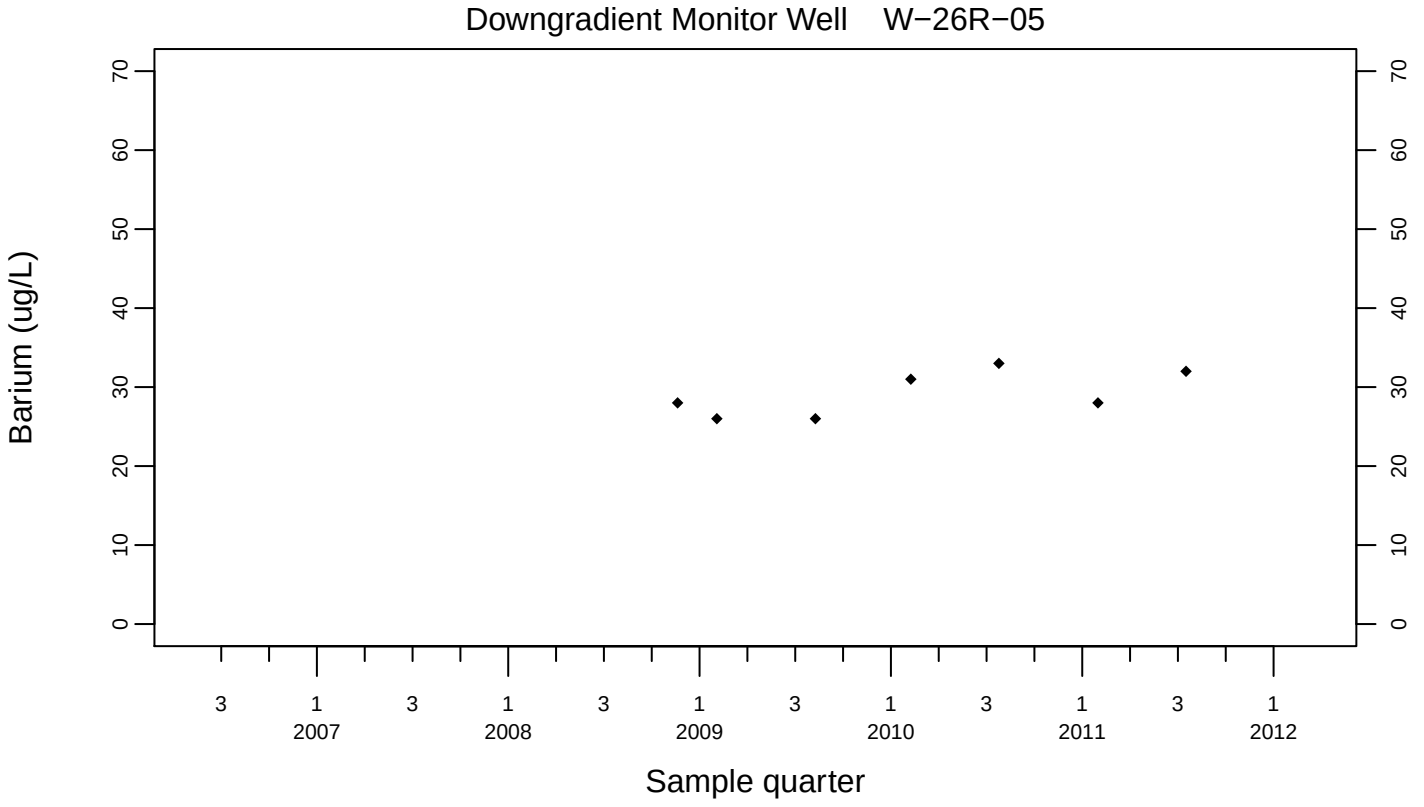

Sewage Ponds Ground Water
Barium (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

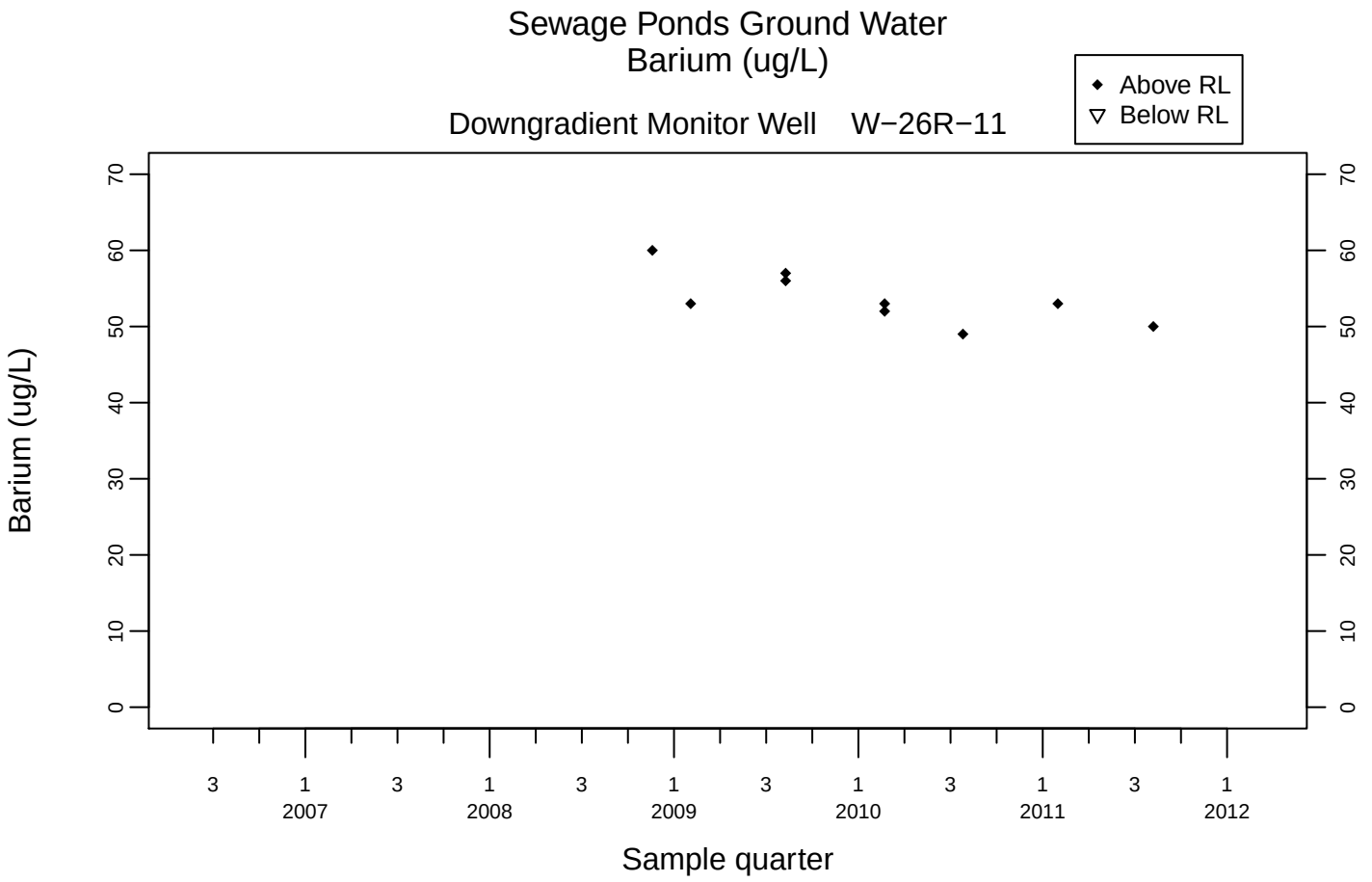

Downgradient Monitor Well W−7DS
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

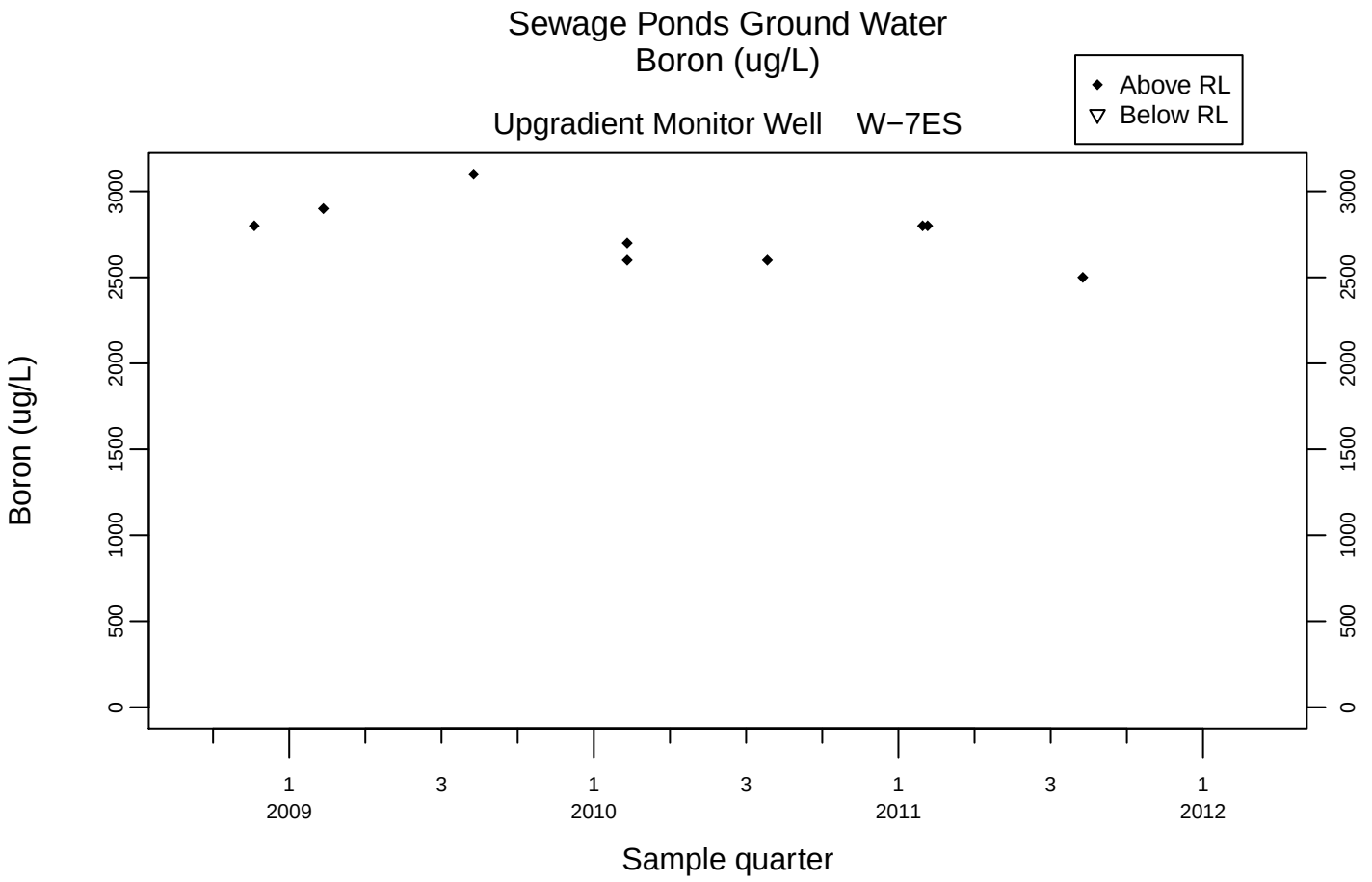

Sewage Ponds Ground Water
Barium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

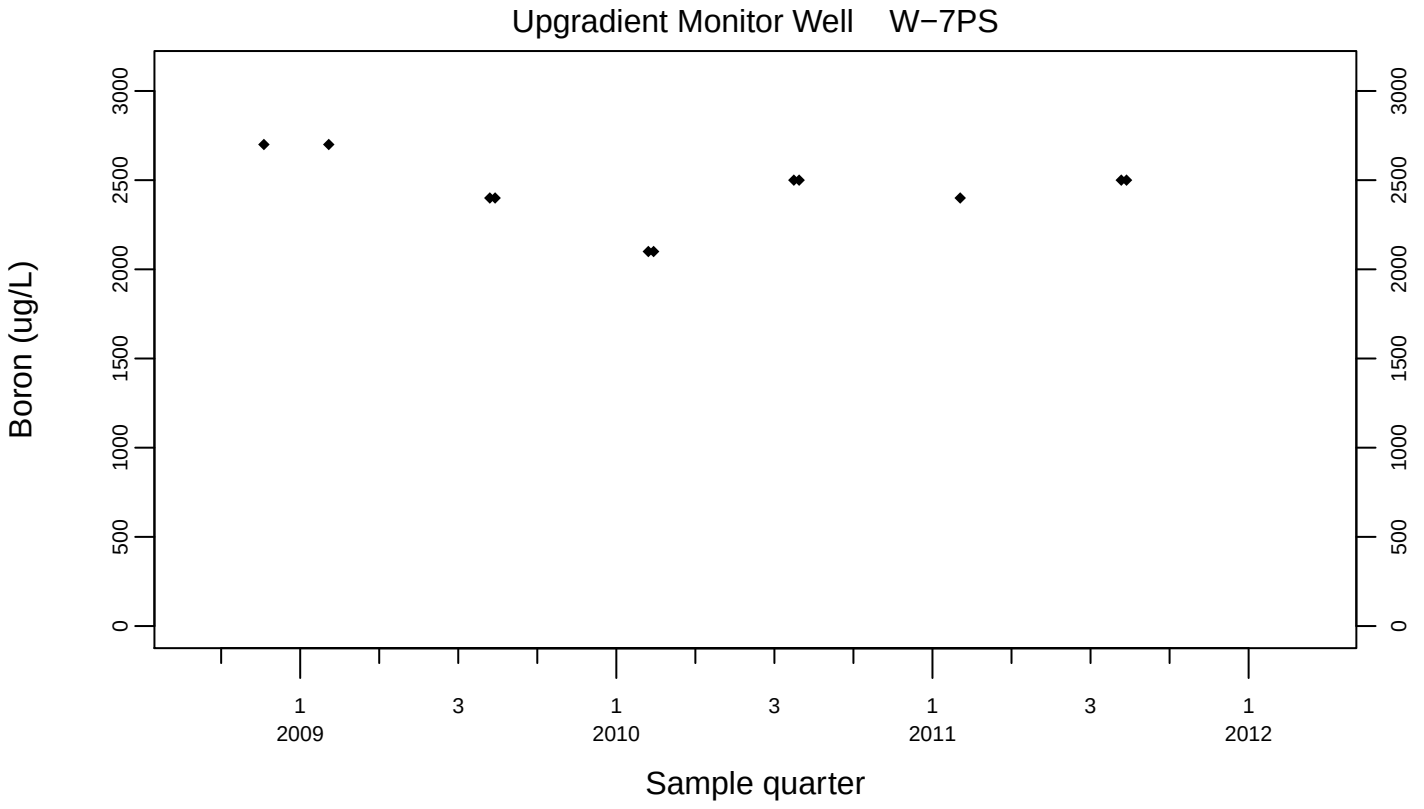

Downgradient Monitor Well W−25N−23
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

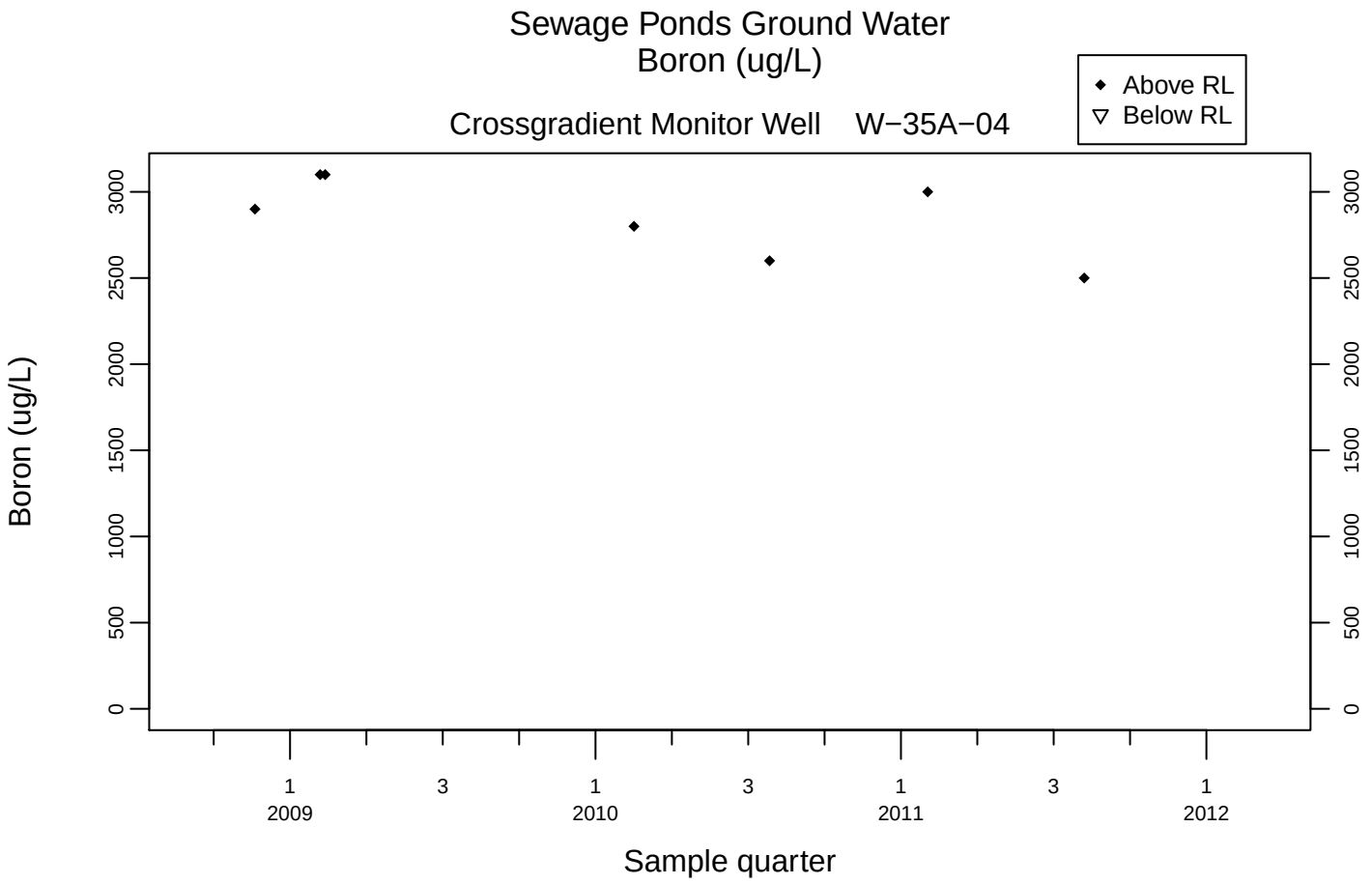

Sewage Ponds Ground Water
Barium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

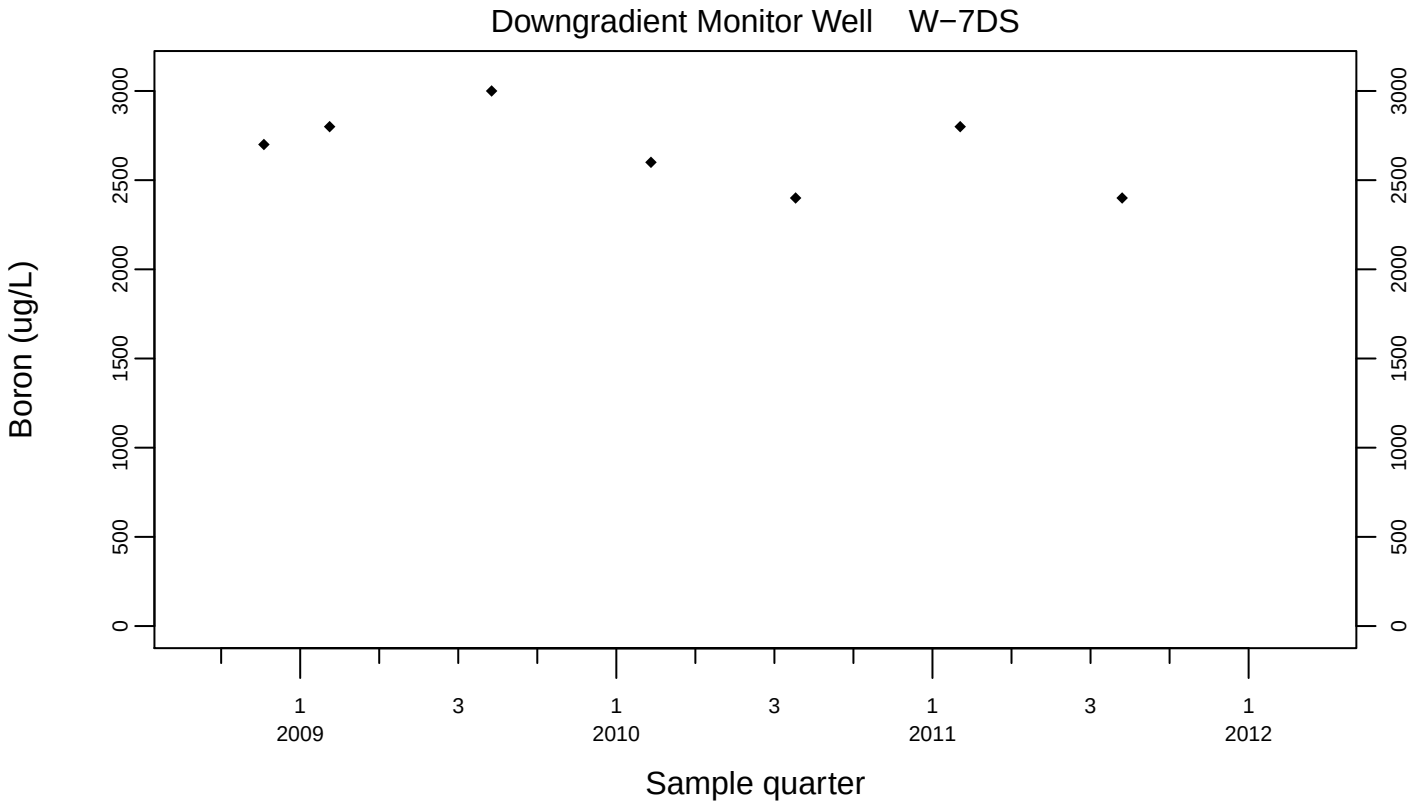

Downgradient Monitor Well W−26R−05
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

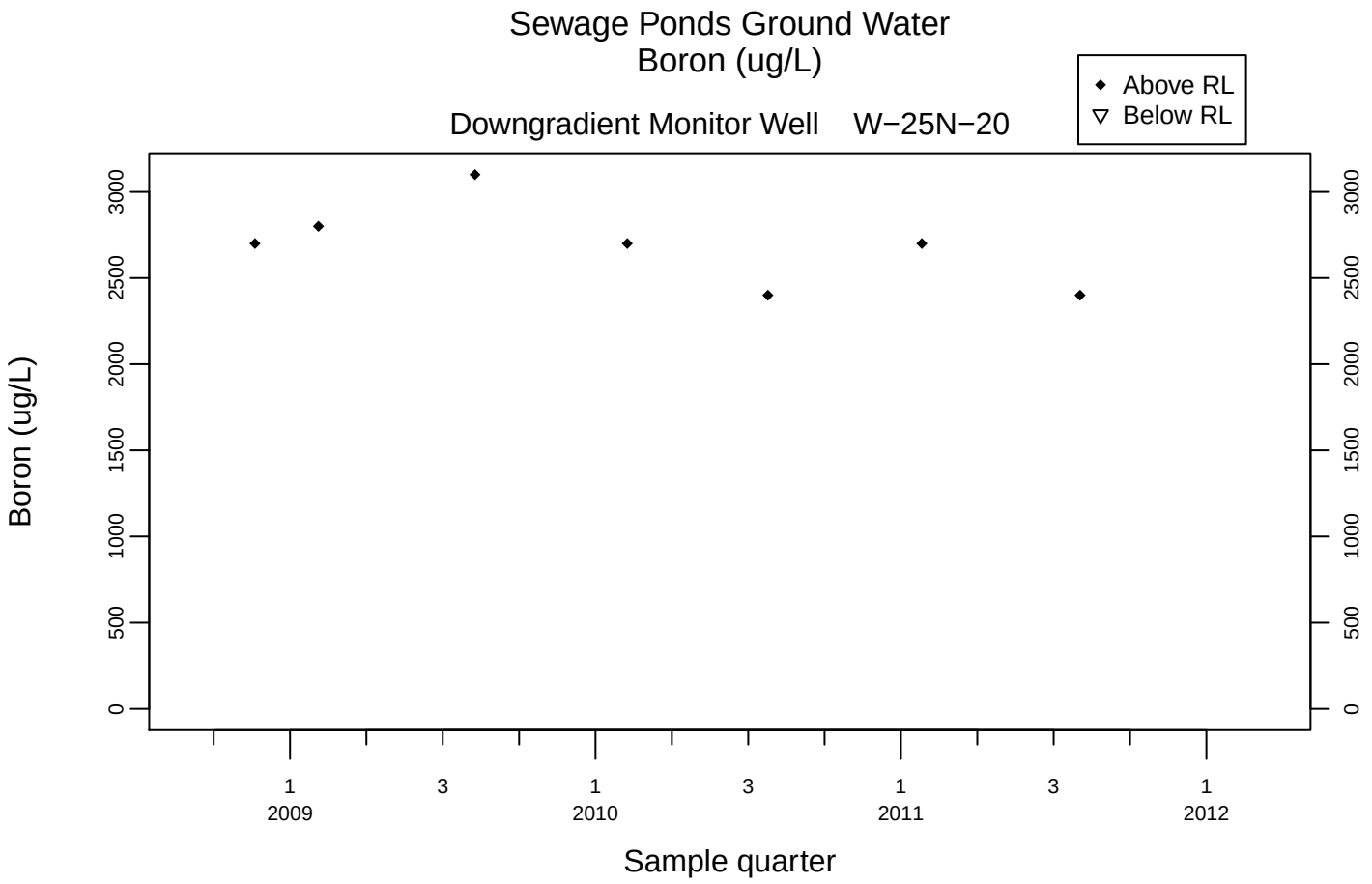

Sewage Ponds Ground Water
Barium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

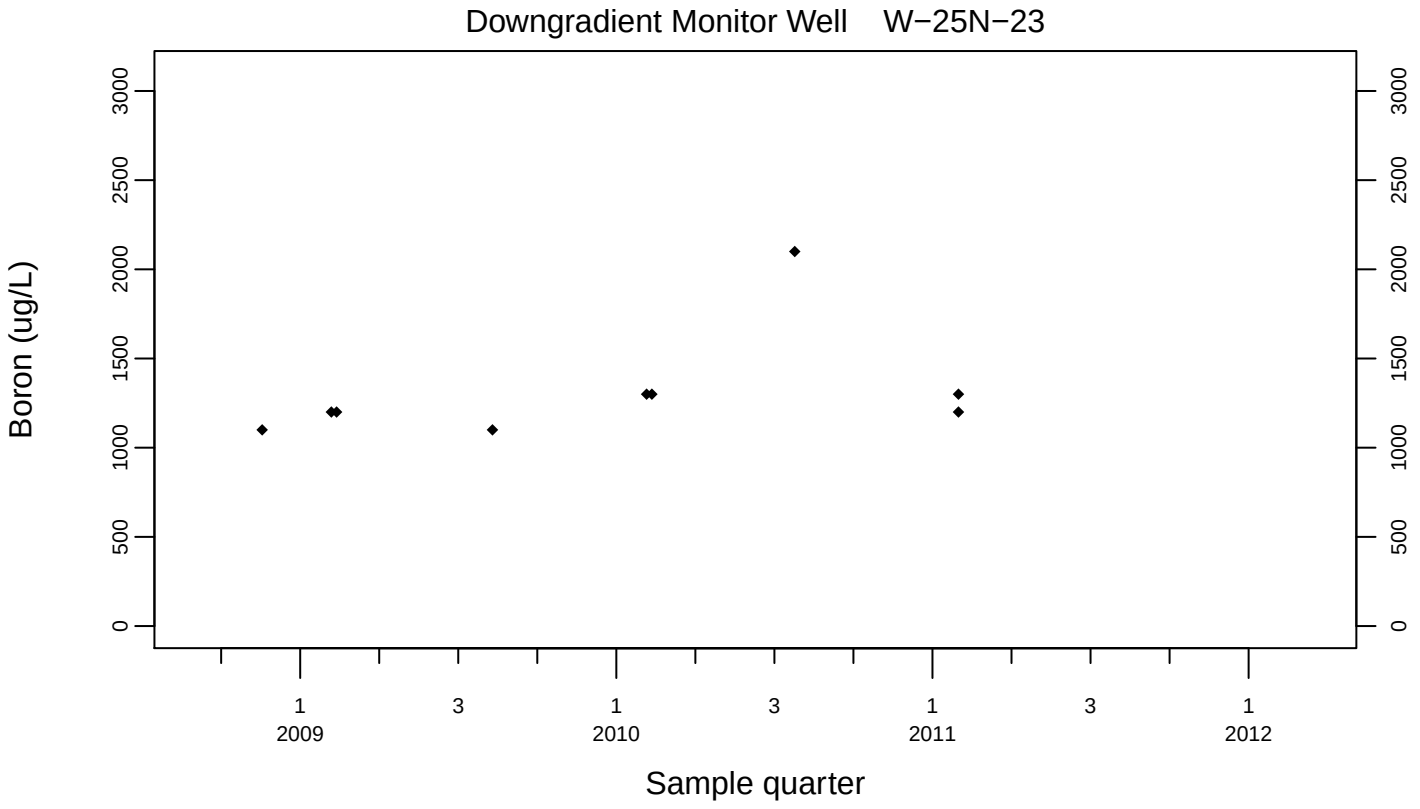

Sewage Ponds Ground Water
Boron (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

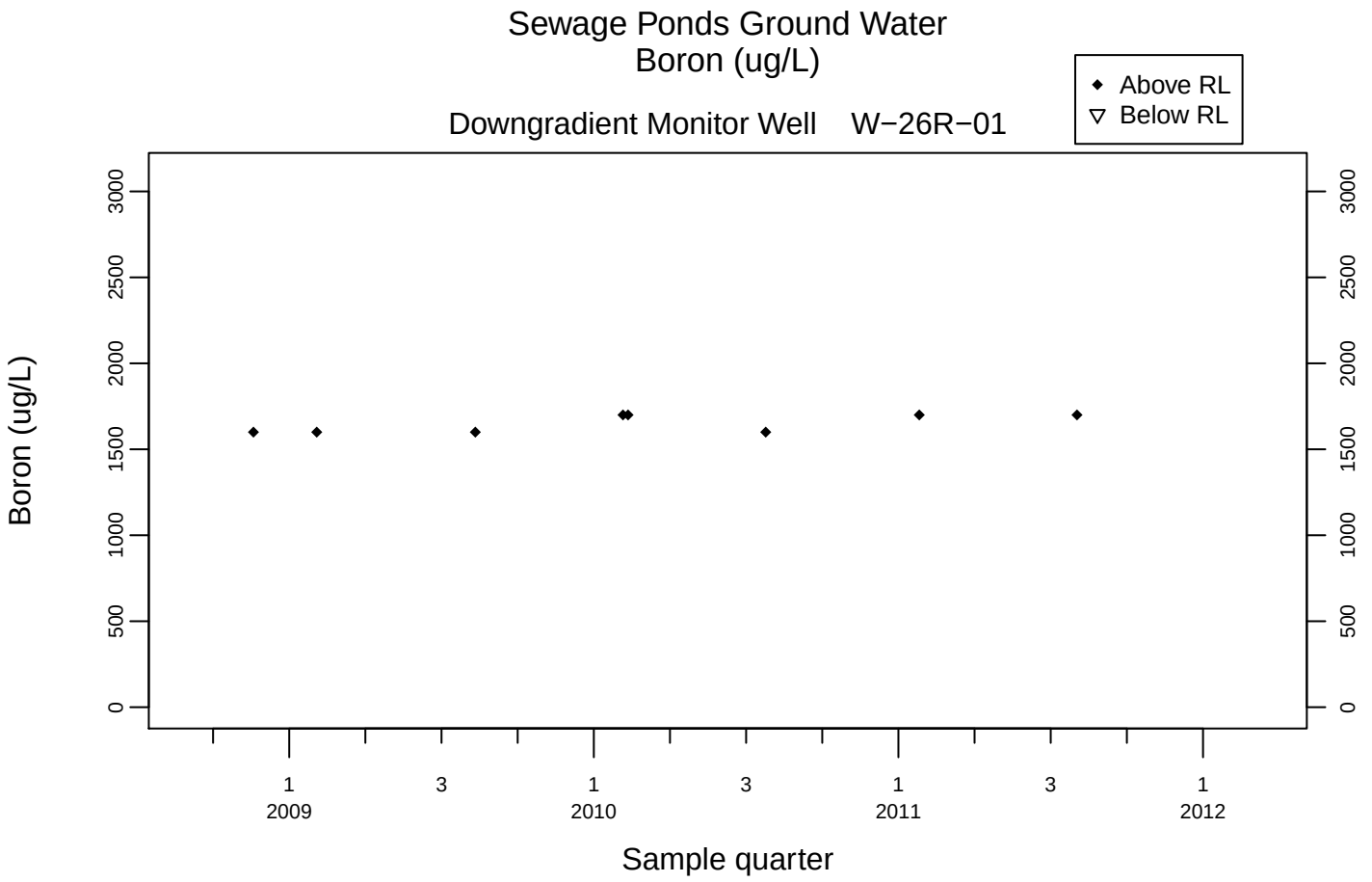

Upgradient Monitor Well W−7PS
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

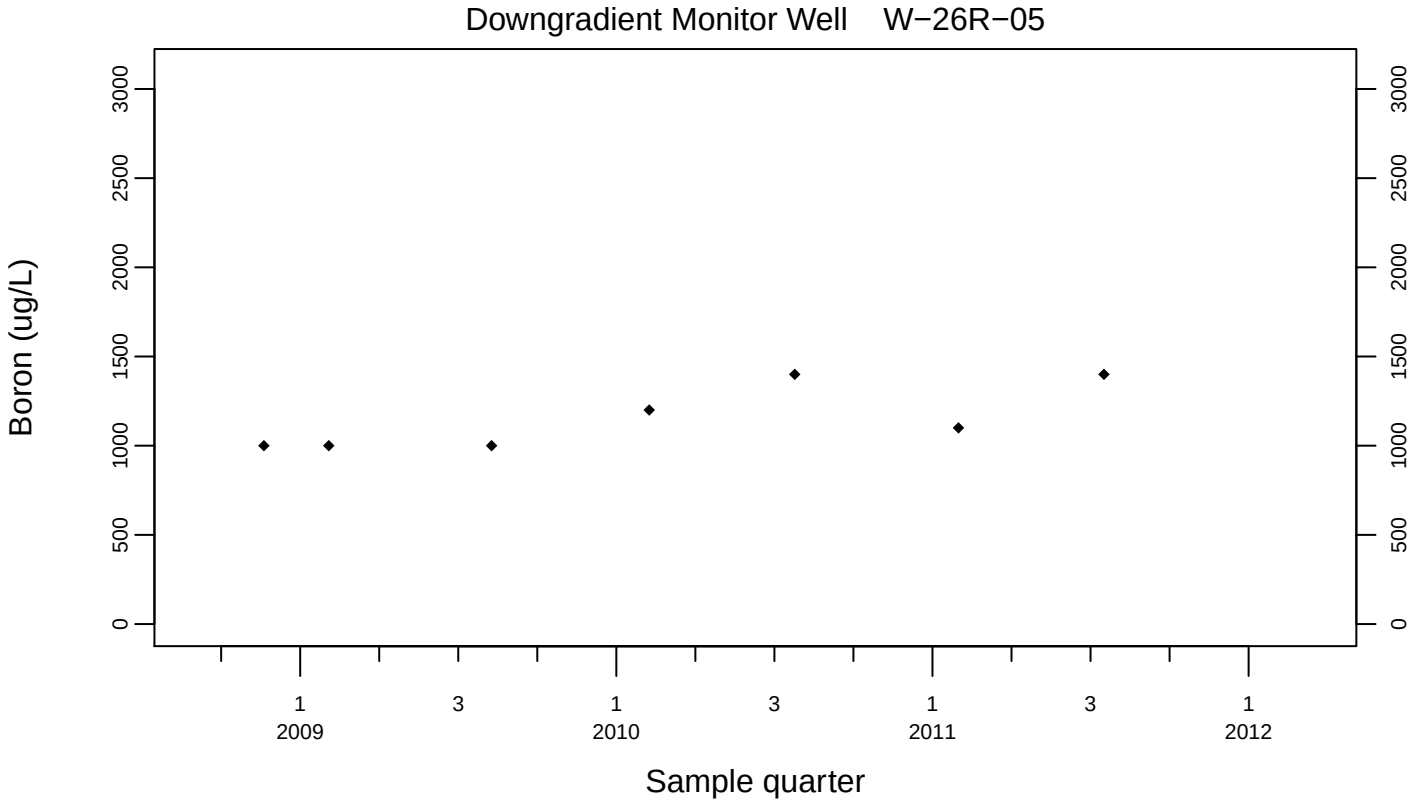

Sewage Ponds Ground Water
Boron (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

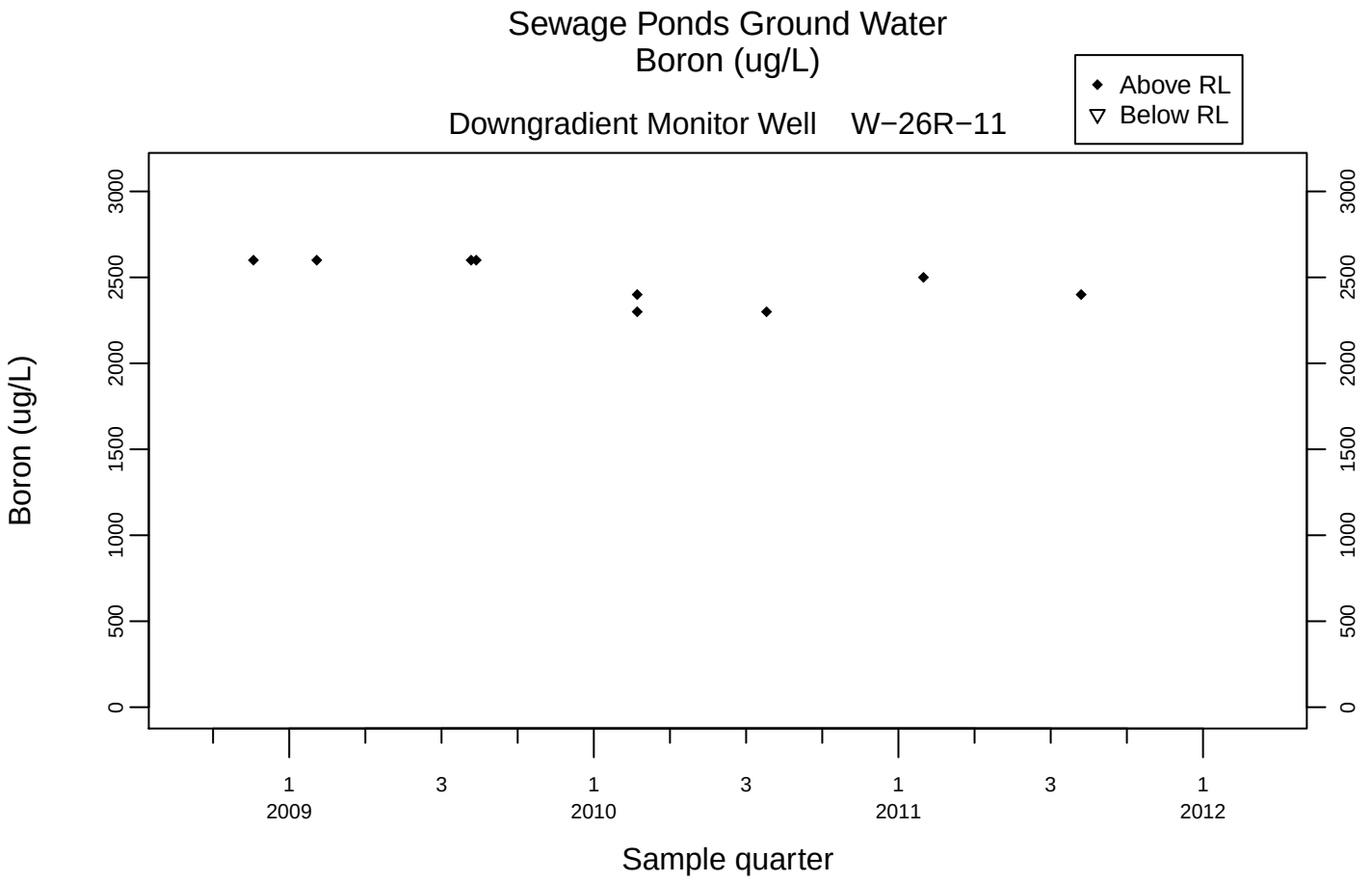

Downgradient Monitor Well W−7DS
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

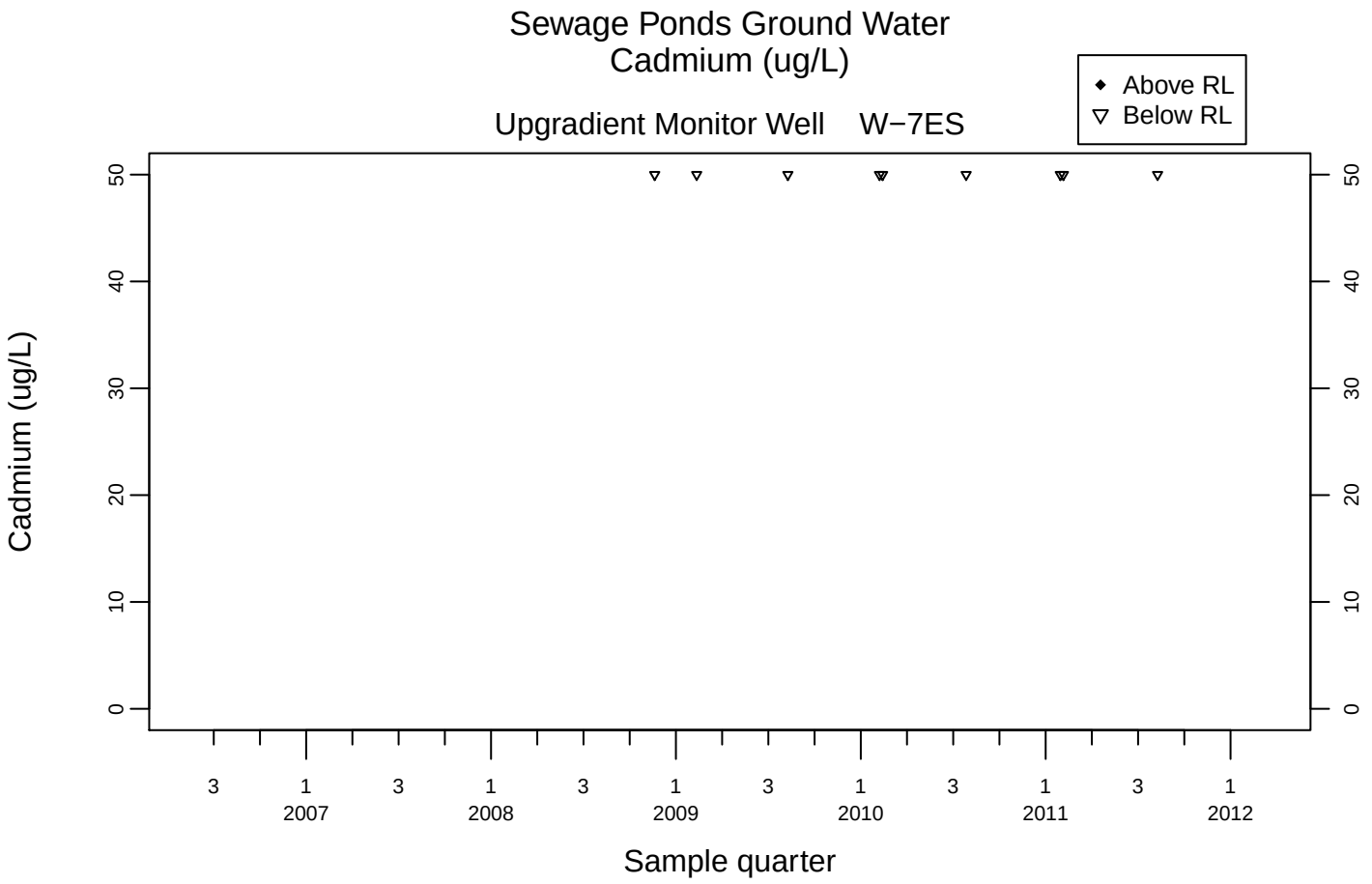

Sewage Ponds Ground Water
Boron (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

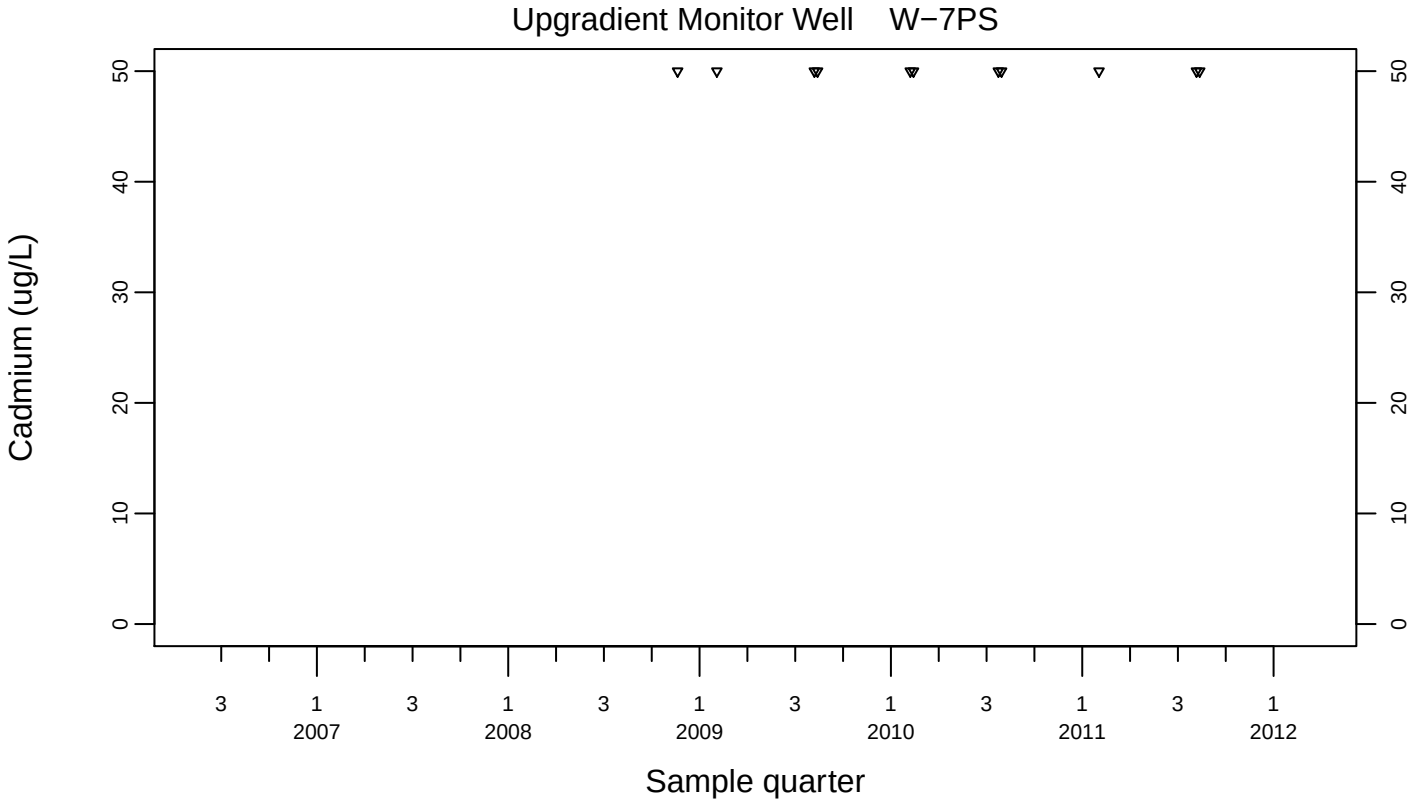

Downgradient Monitor Well W−25N−23
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

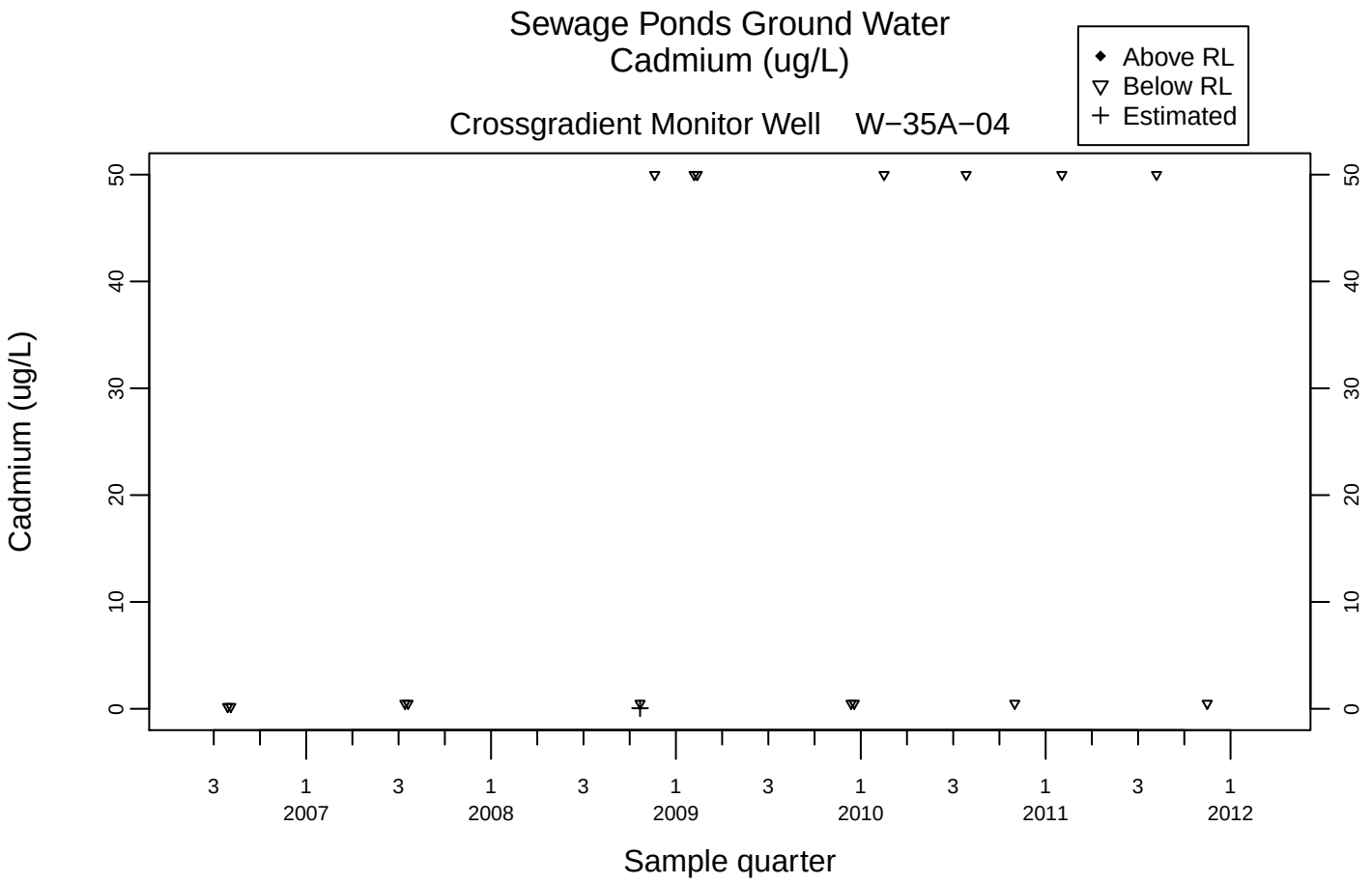

Sewage Ponds Ground Water
Boron (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

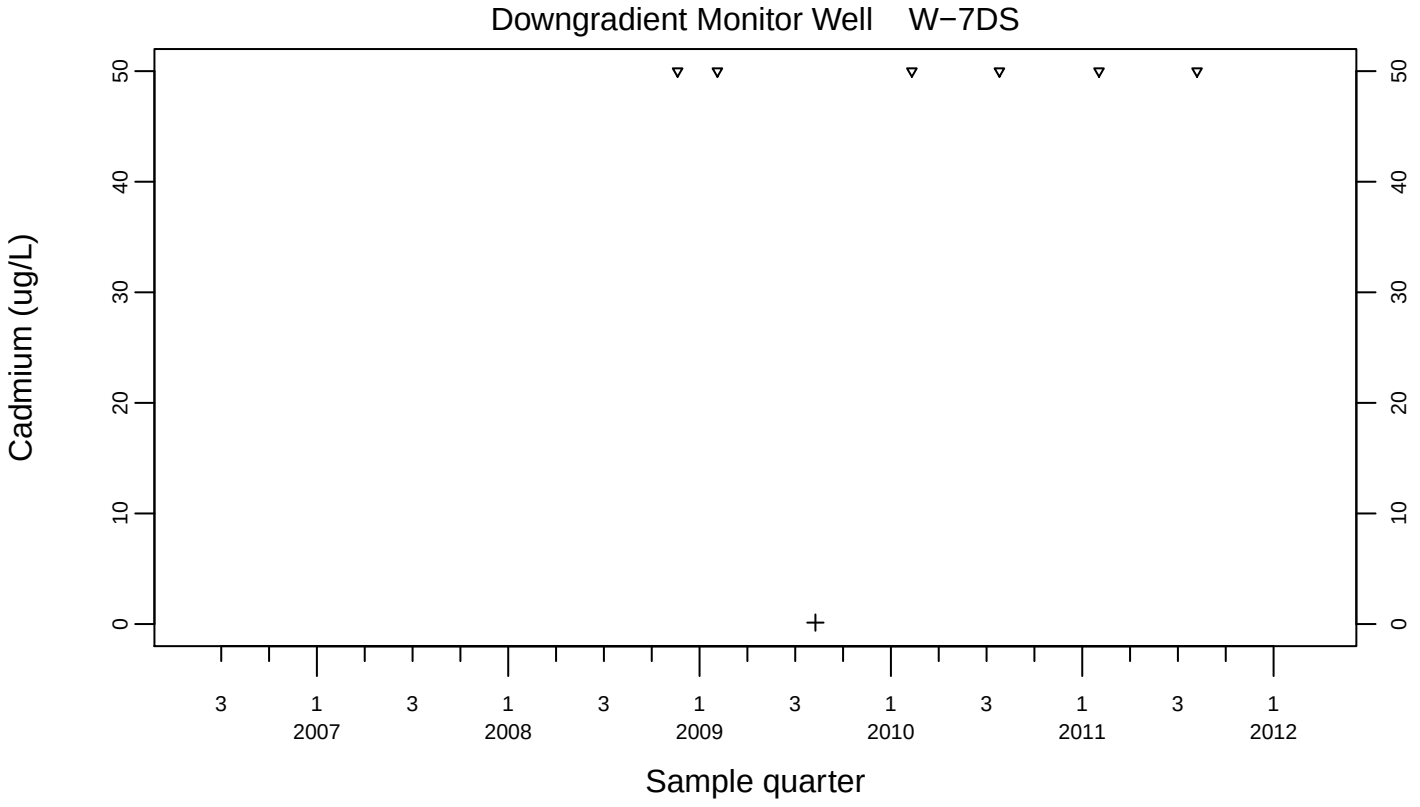

Downgradient Monitor Well W−26R−05
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

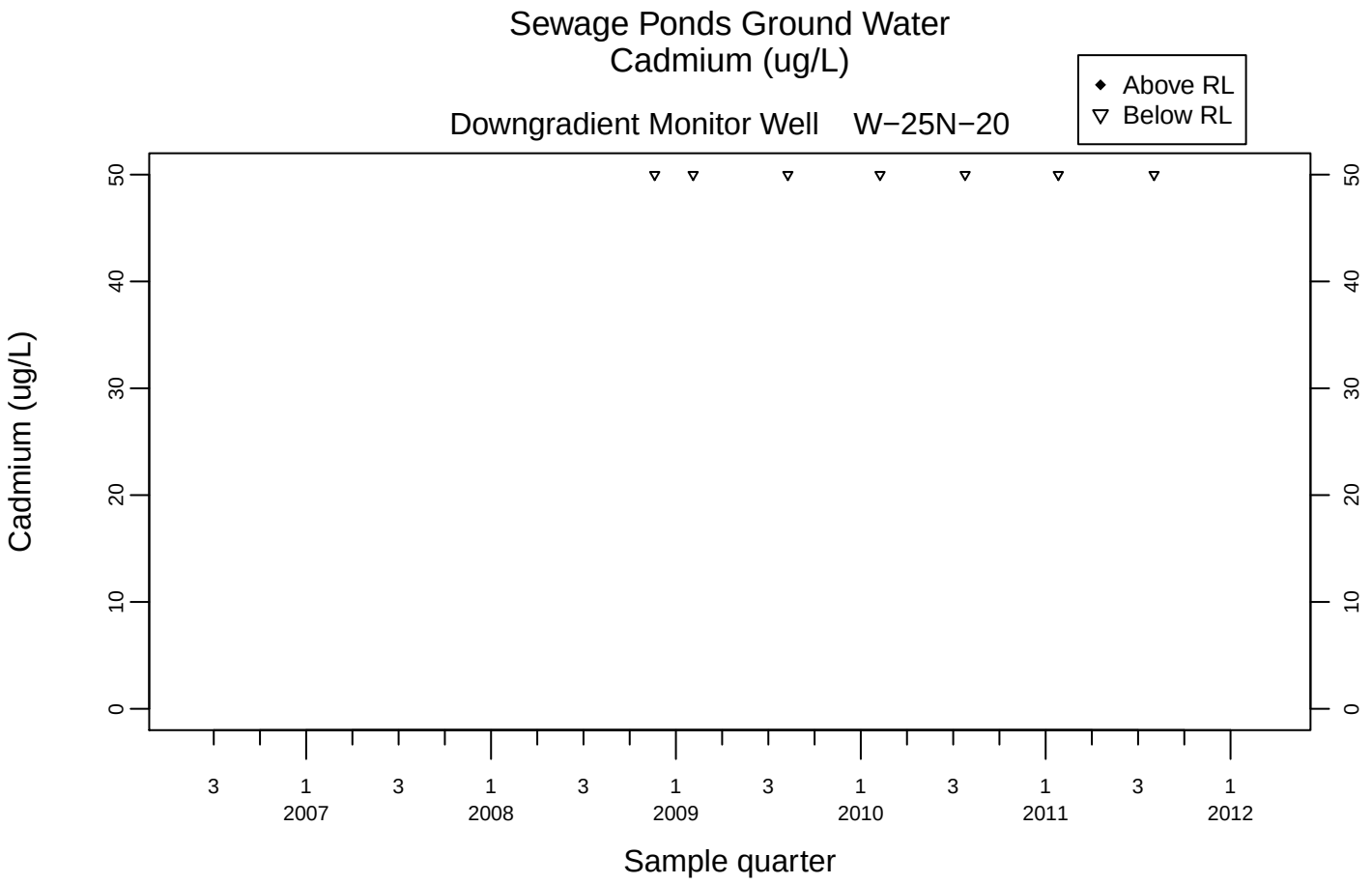

Sewage Ponds Ground Water
Boron (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

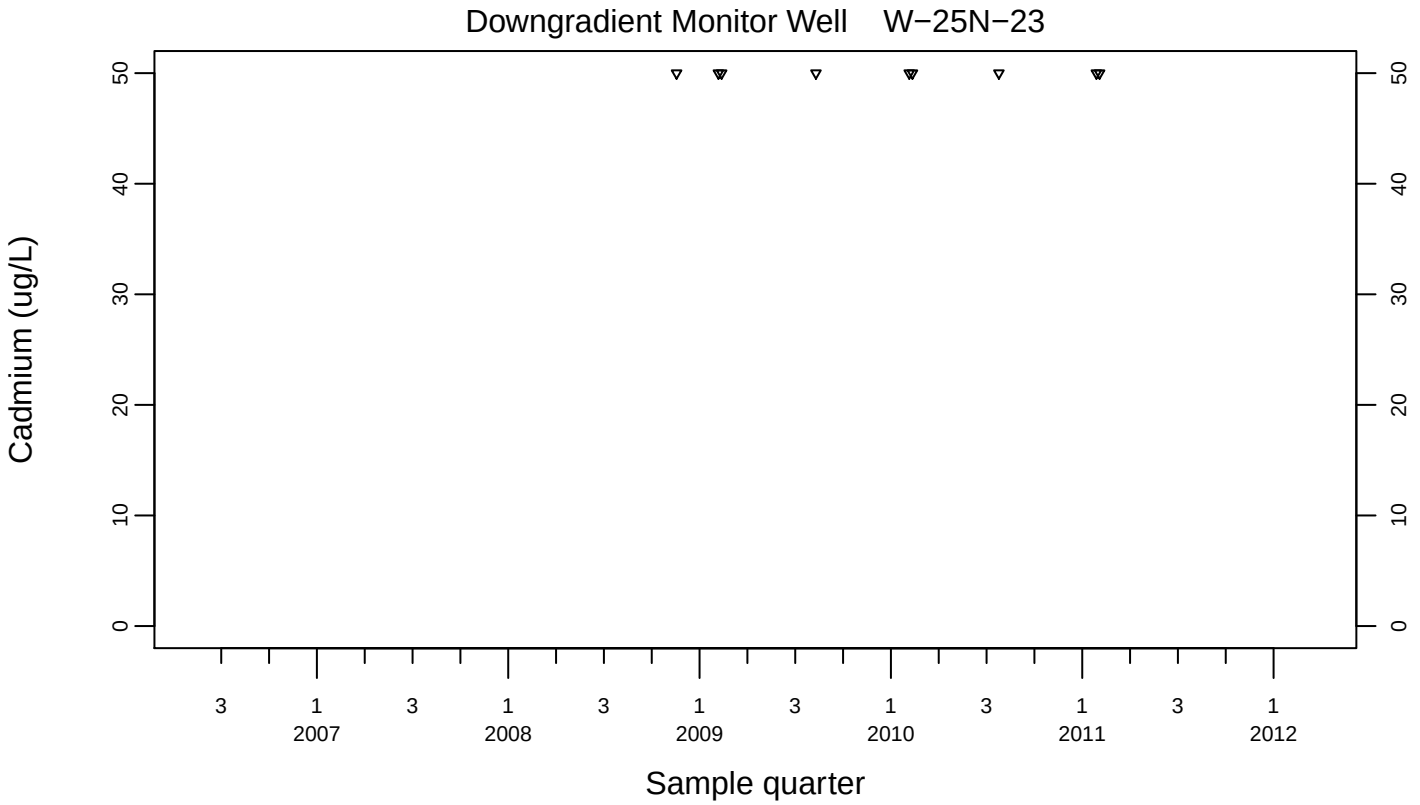

Sewage Ponds Ground Water
Cadmium (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

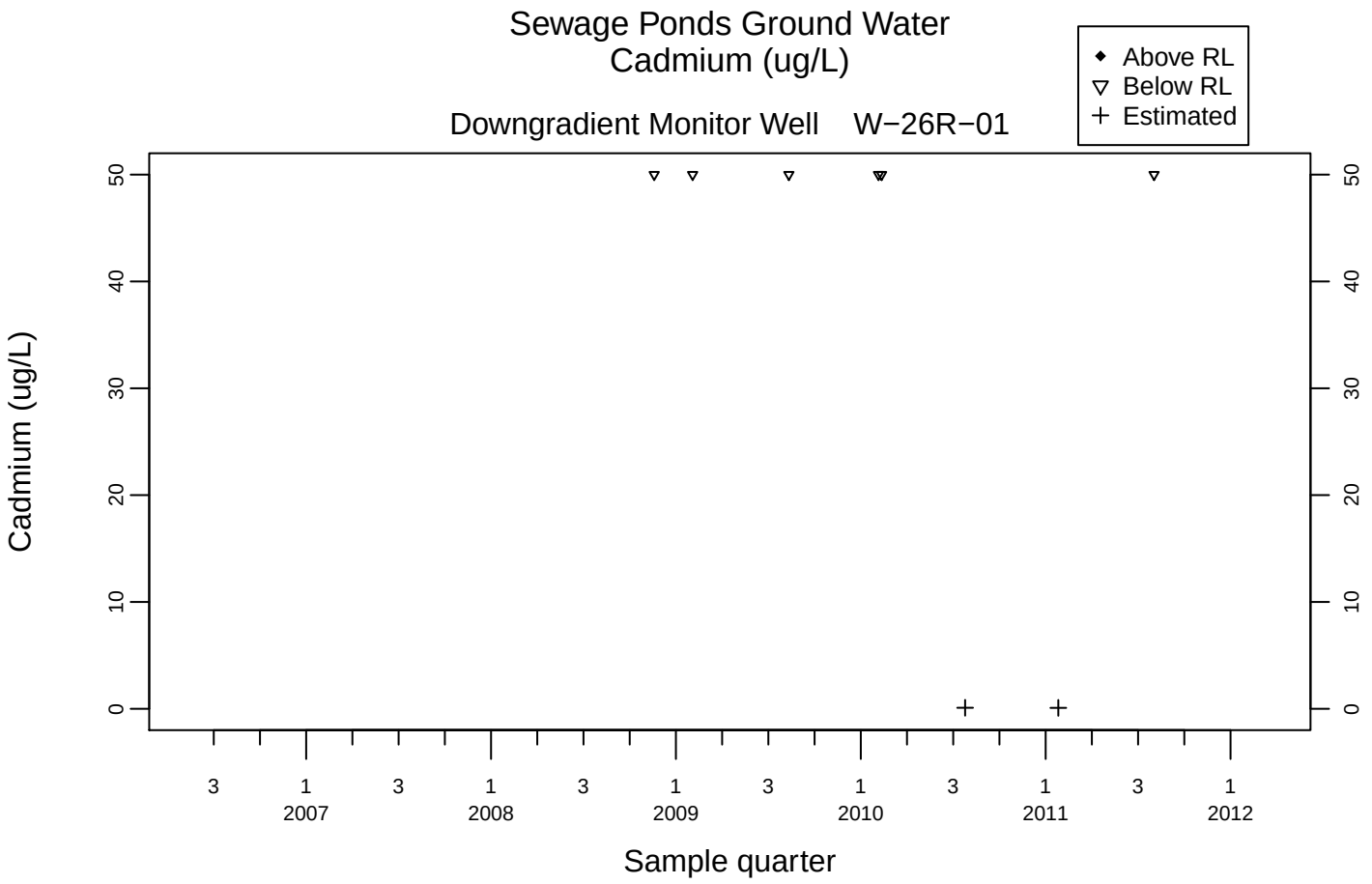

Upgradient Monitor Well W−7PS
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

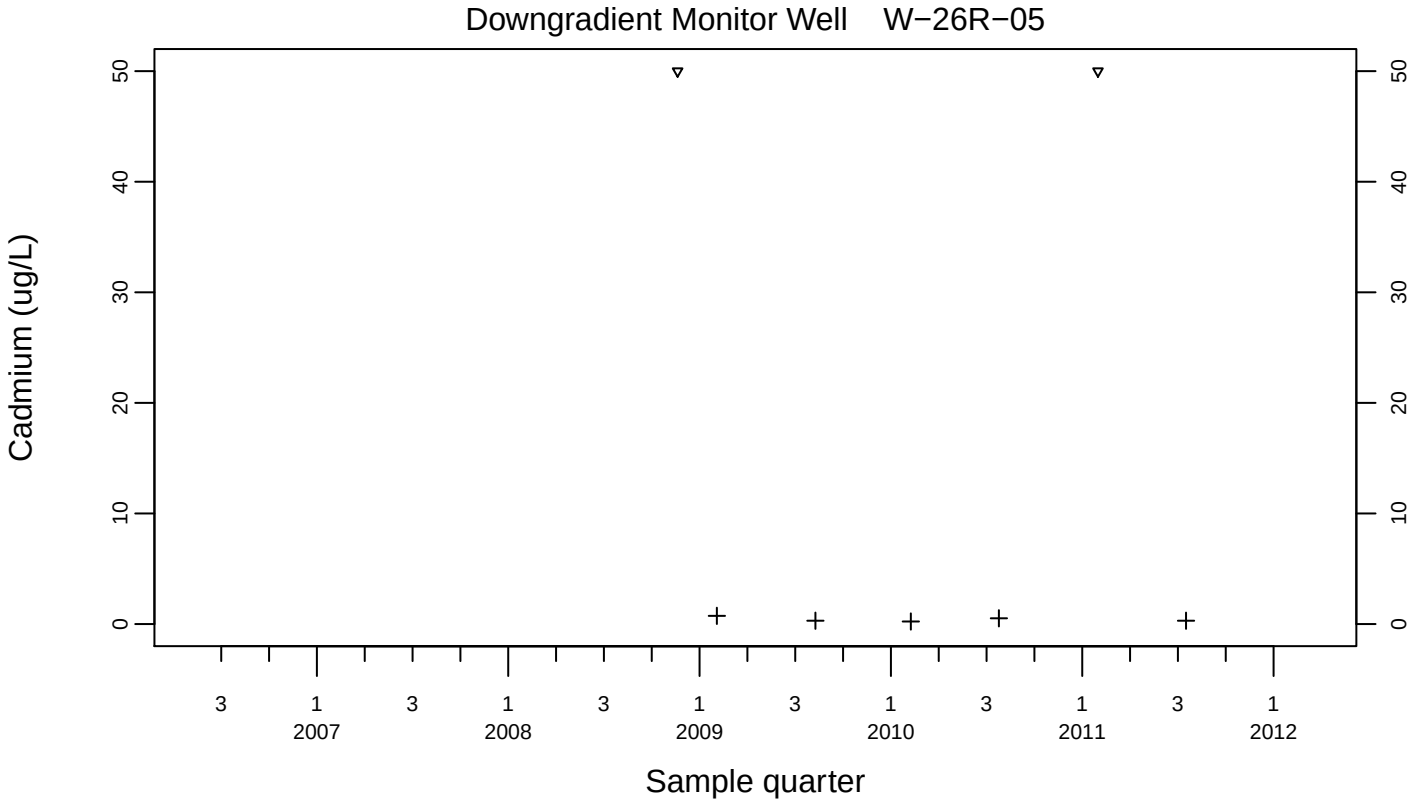

Sewage Ponds Ground Water
Cadmium (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

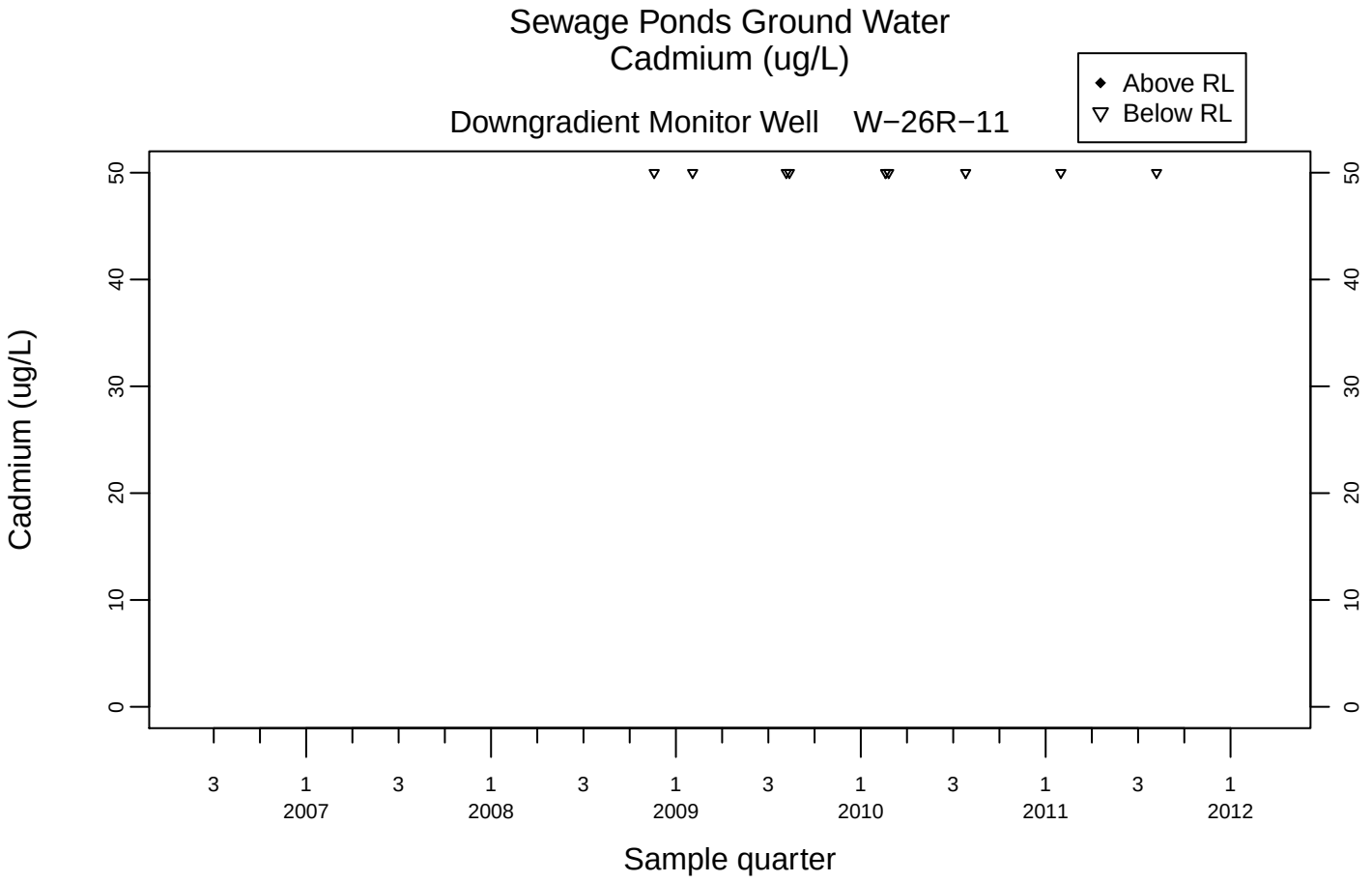

Downgradient Monitor Well W−7DS
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

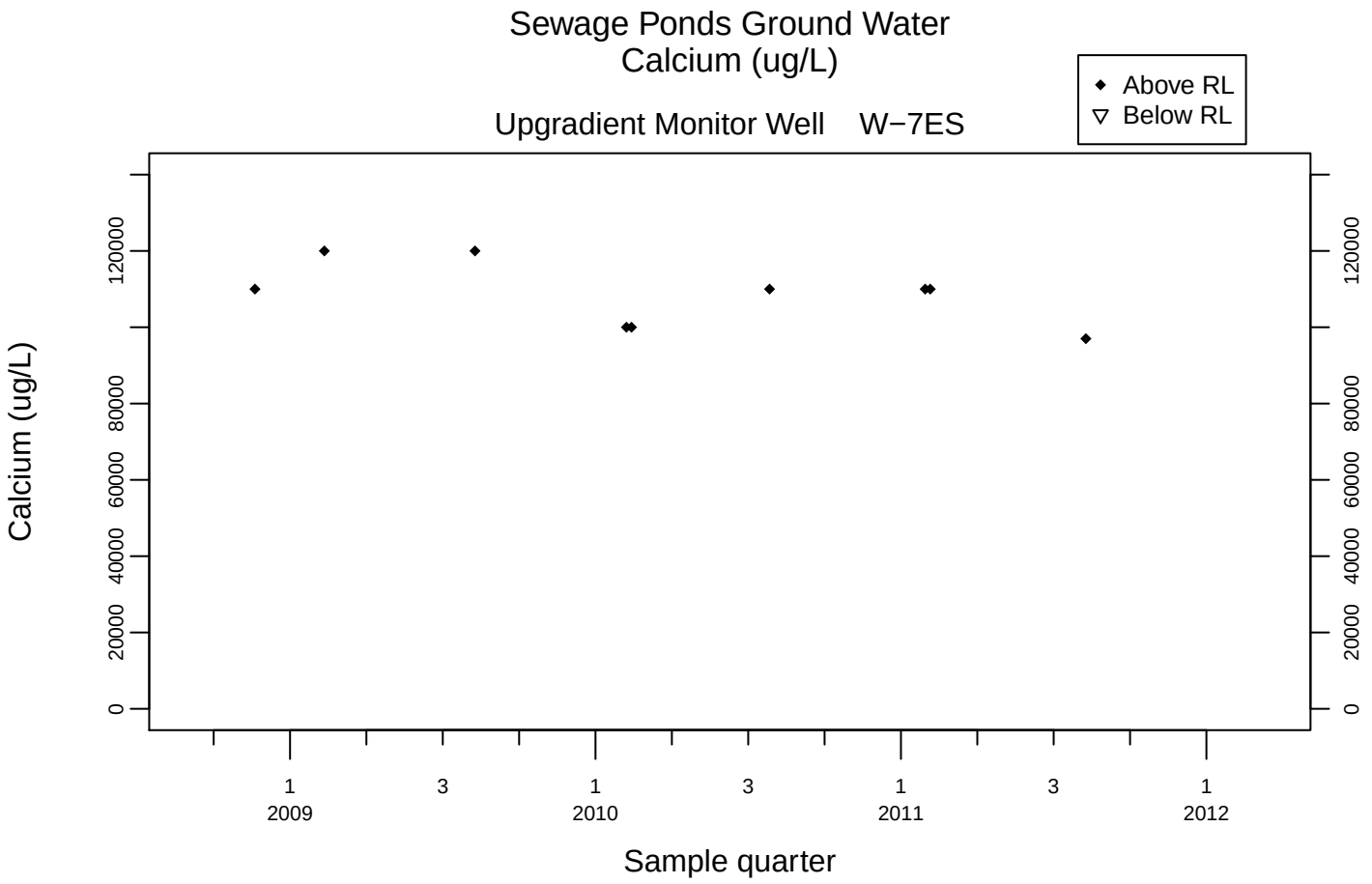

Sewage Ponds Ground Water
Cadmium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

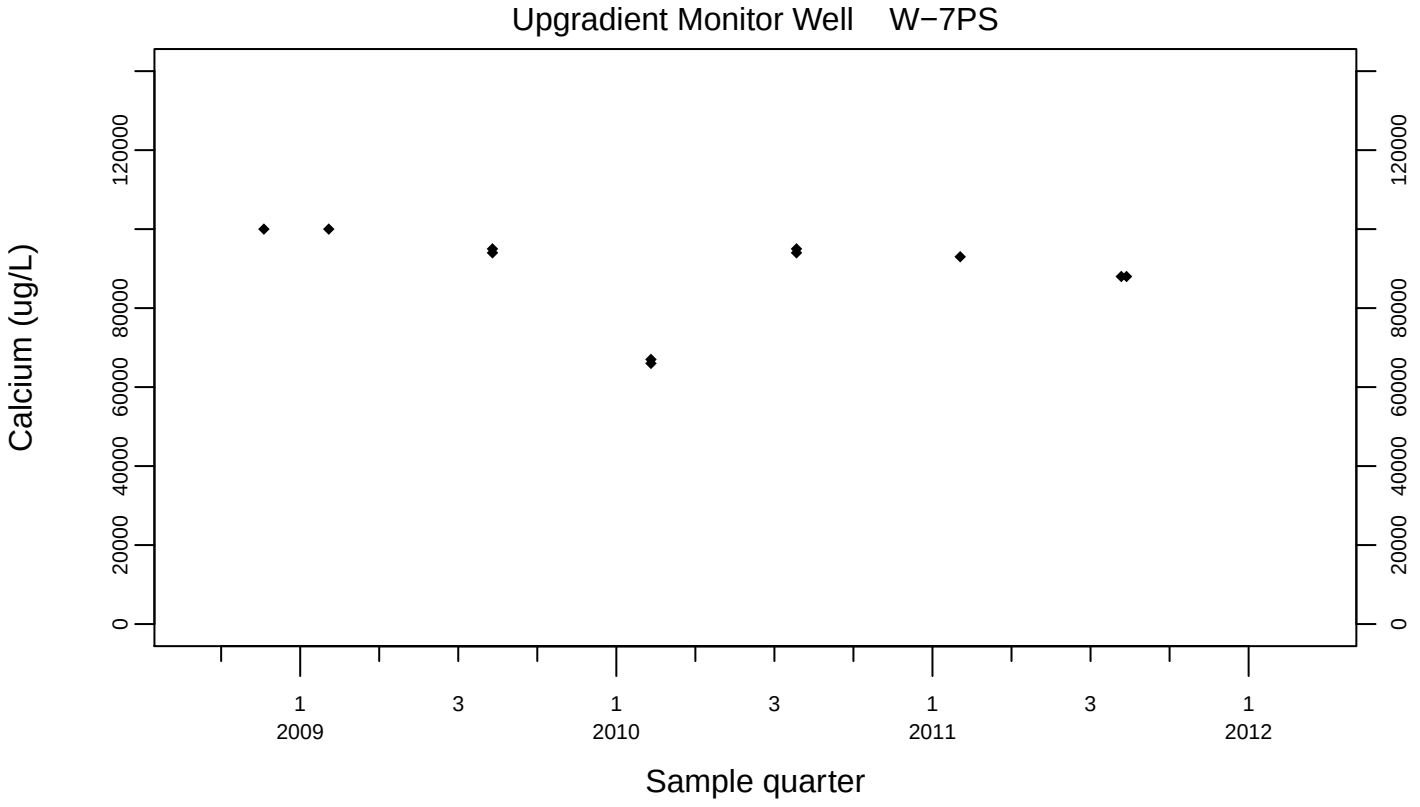

Downgradient Monitor Well W−25N−23
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

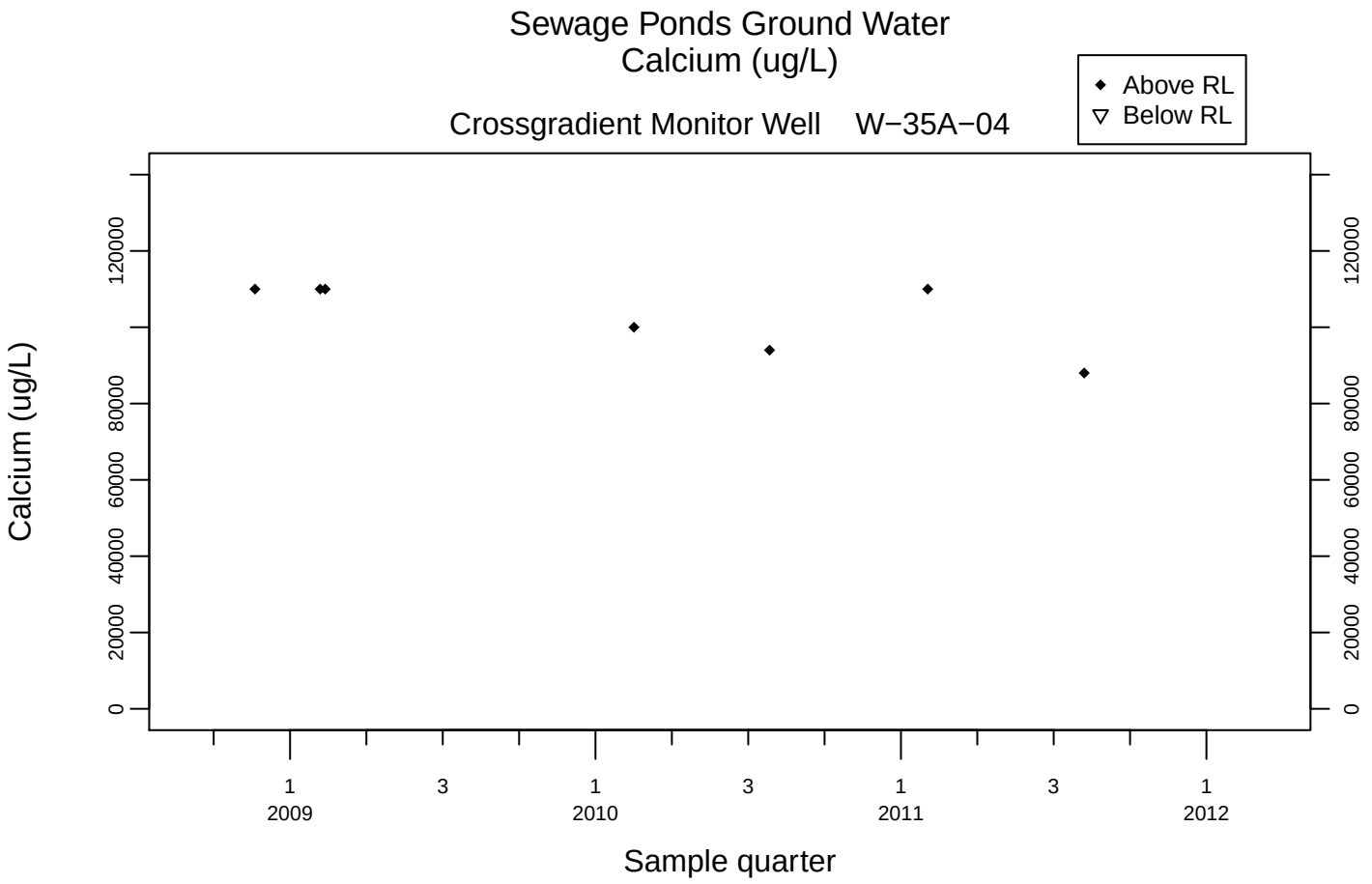

Sewage Ponds Ground Water
Cadmium (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−26R−01
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

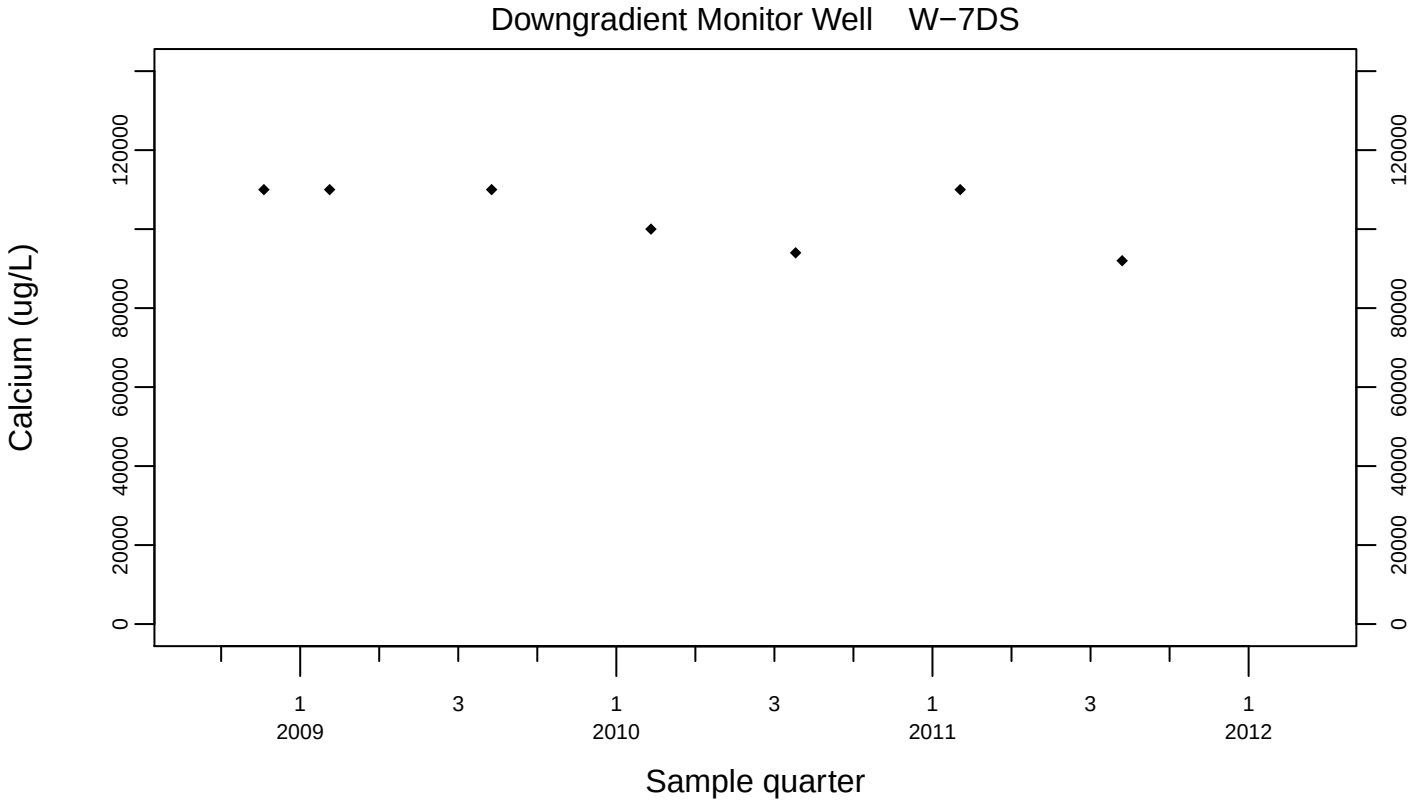

Downgradient Monitor Well W−26R−05
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

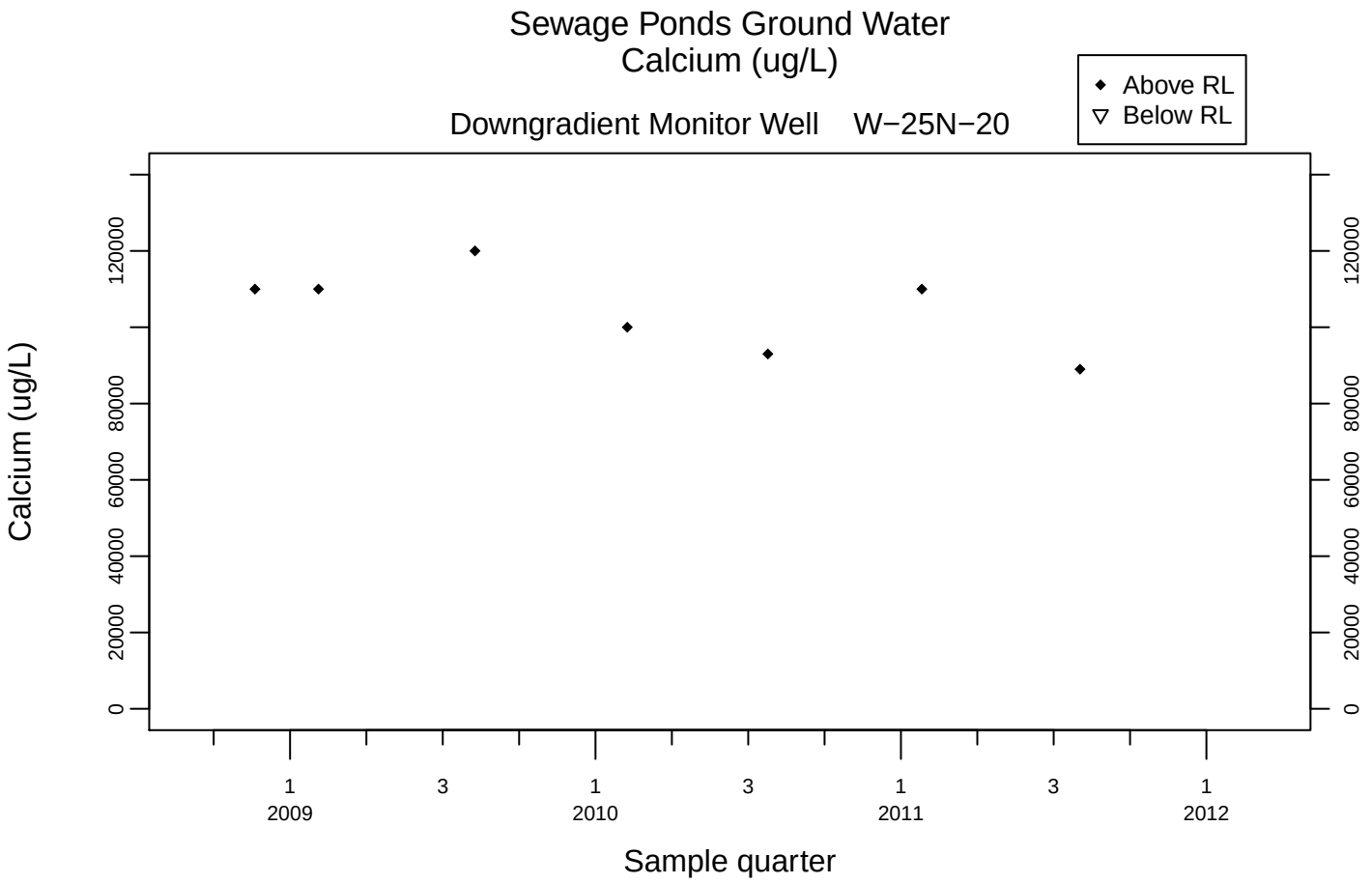

Sewage Ponds Ground Water
Cadmium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

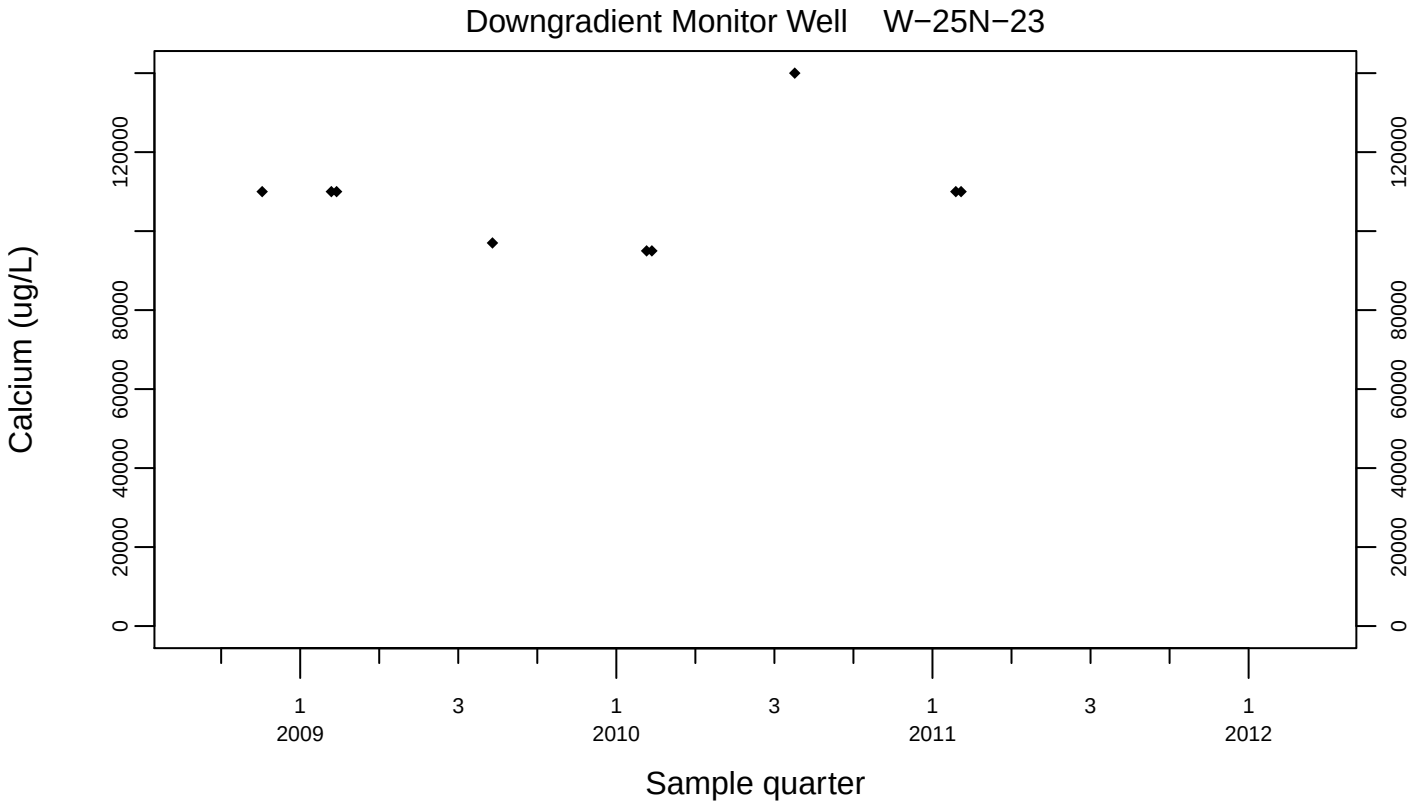

Sewage Ponds Ground Water
Calcium (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Calcium (ug/L)
0
20000
40000
60000
80000
120000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

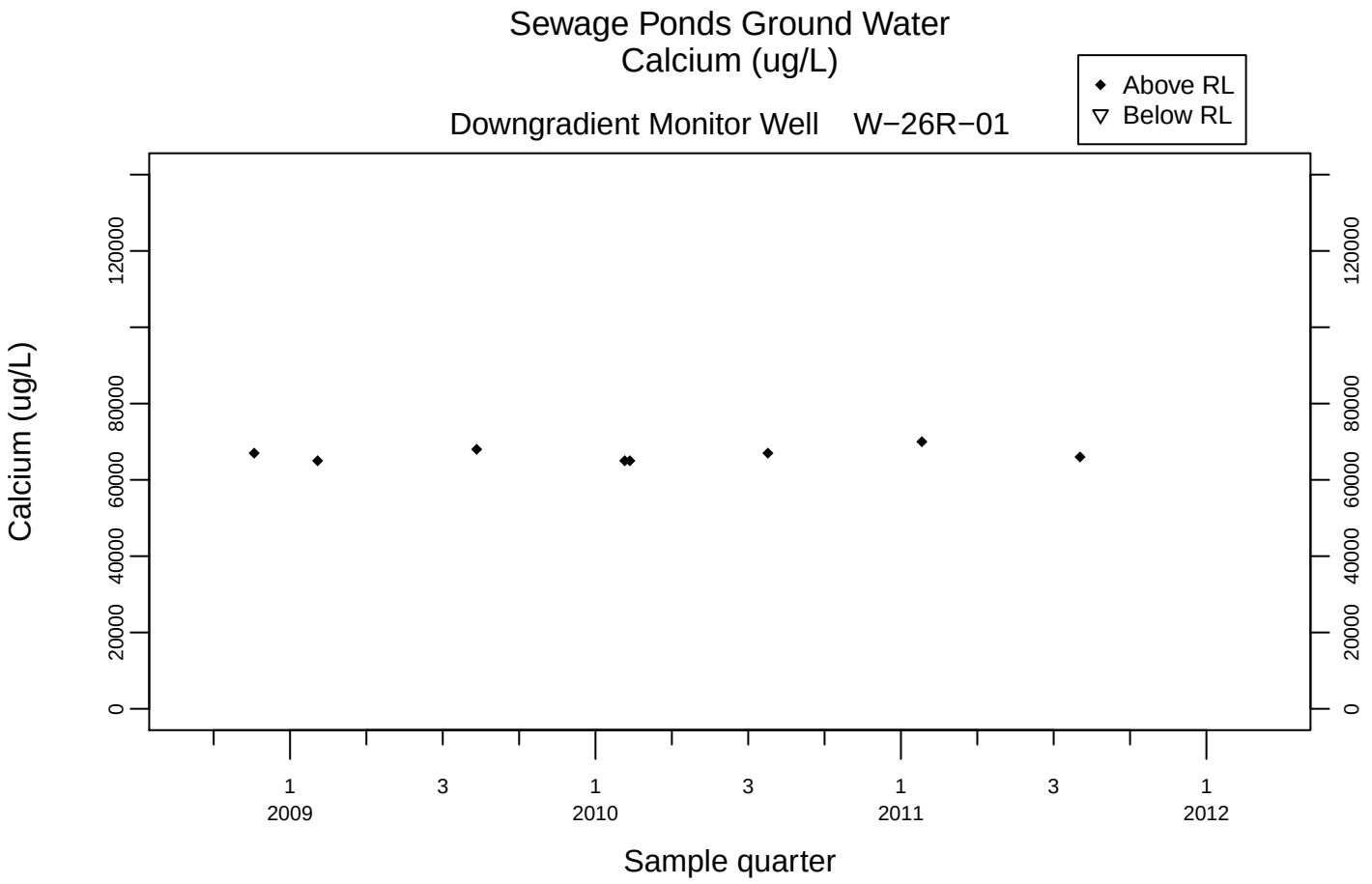

Upgradient Monitor Well W−7PS
Calcium (ug/L)
0
20000
40000
60000
80000
120000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

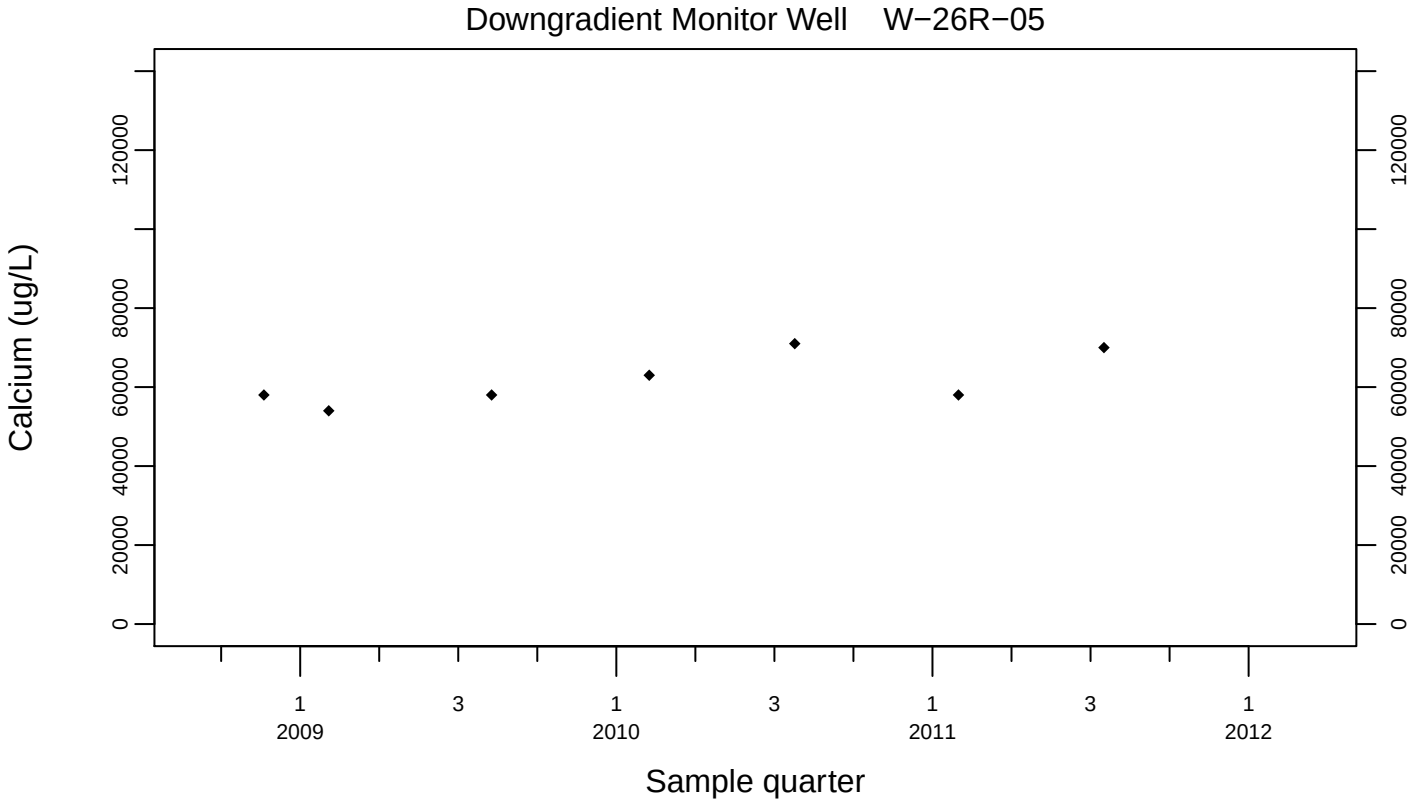

Sewage Ponds Ground Water
Calcium (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Calcium (ug/L)
0
20000
40000
60000
80000
120000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

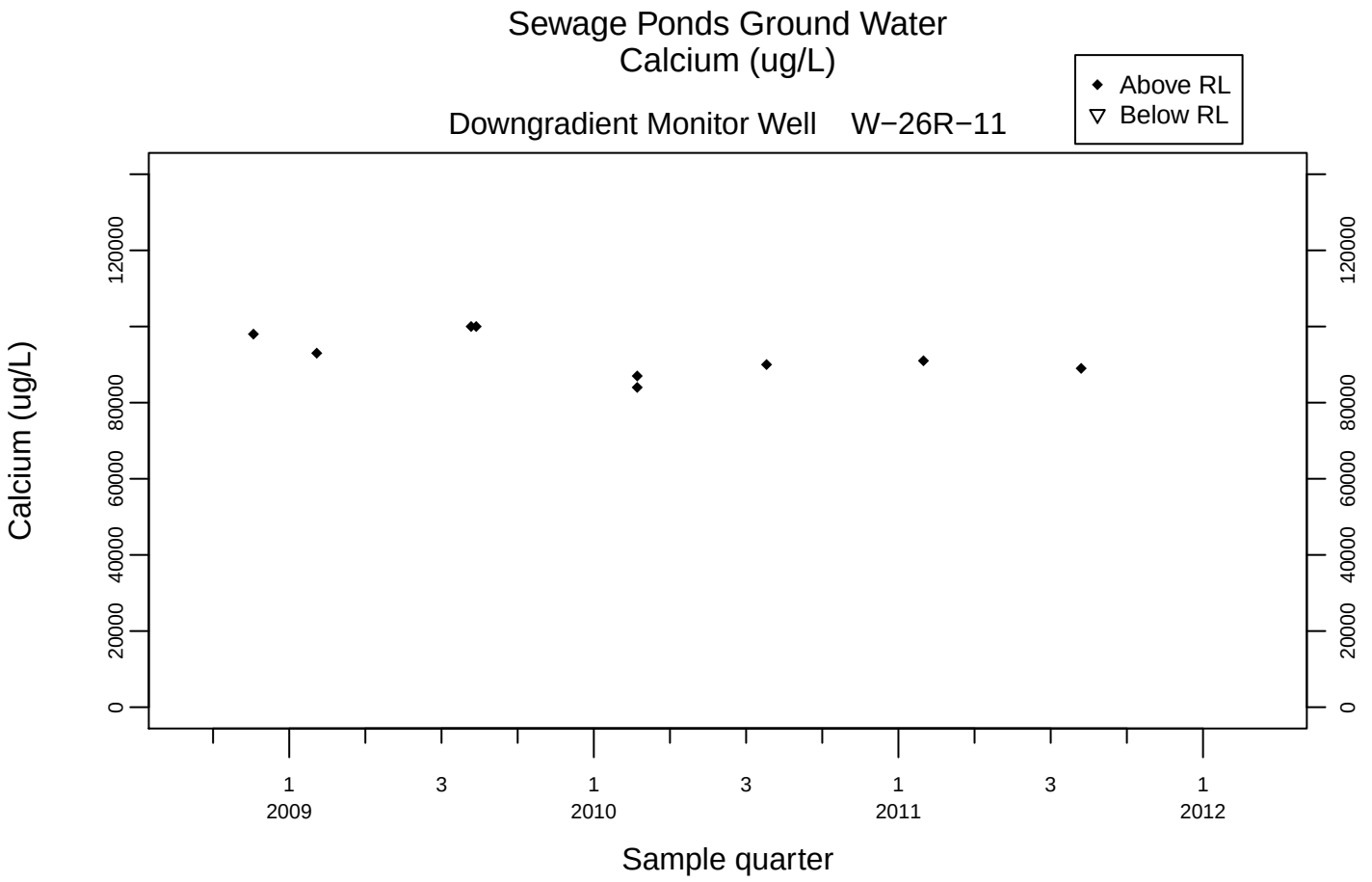

Downgradient Monitor Well W−7DS
Calcium (ug/L)
0
20000
40000
60000
80000
120000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

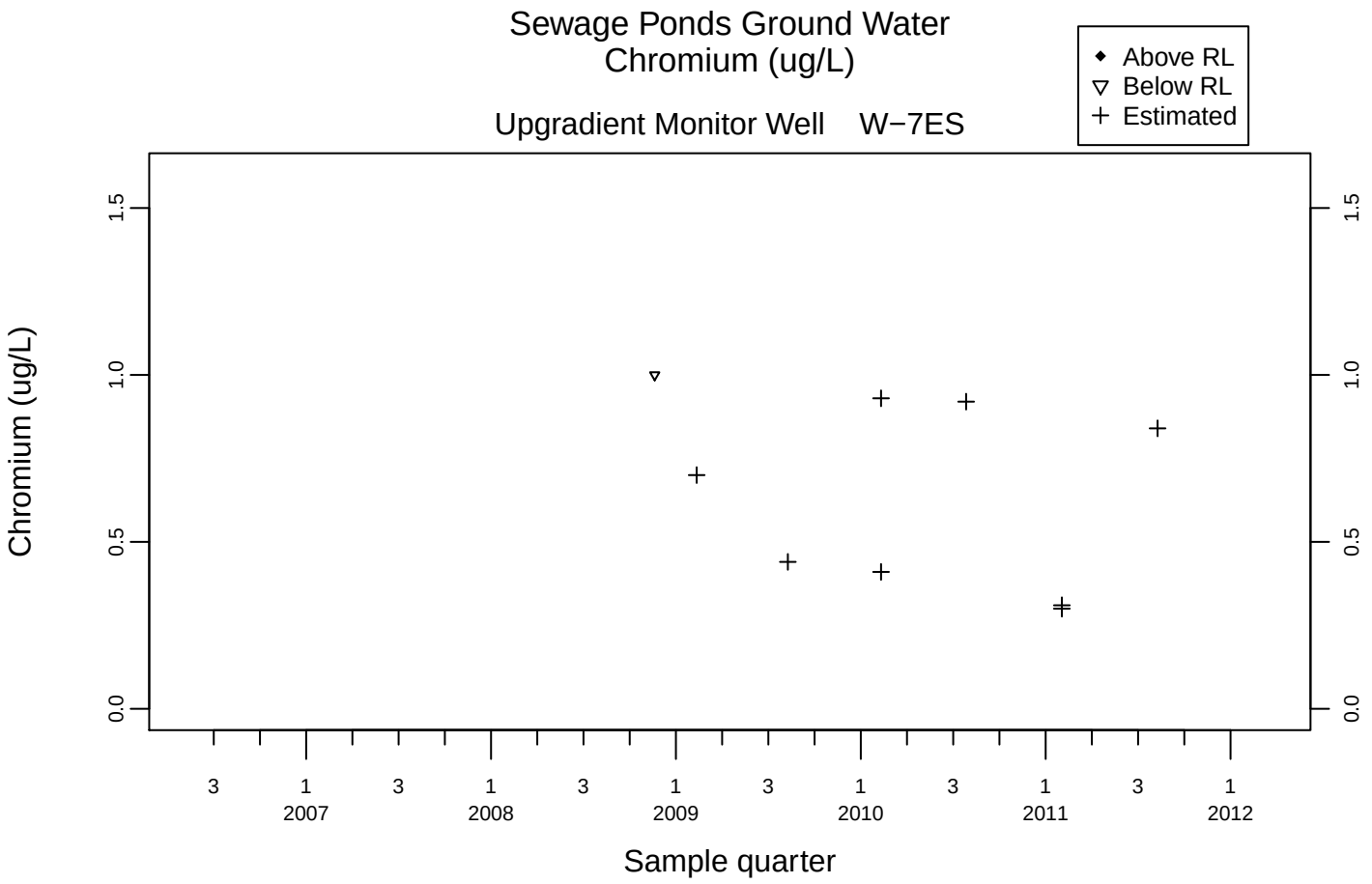

Sewage Ponds Ground Water
Calcium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Calcium (ug/L)
0
20000
40000
60000
80000
120000
1
3
1
3
1
3
1
2009
2010
2011
2012
Sample quarter

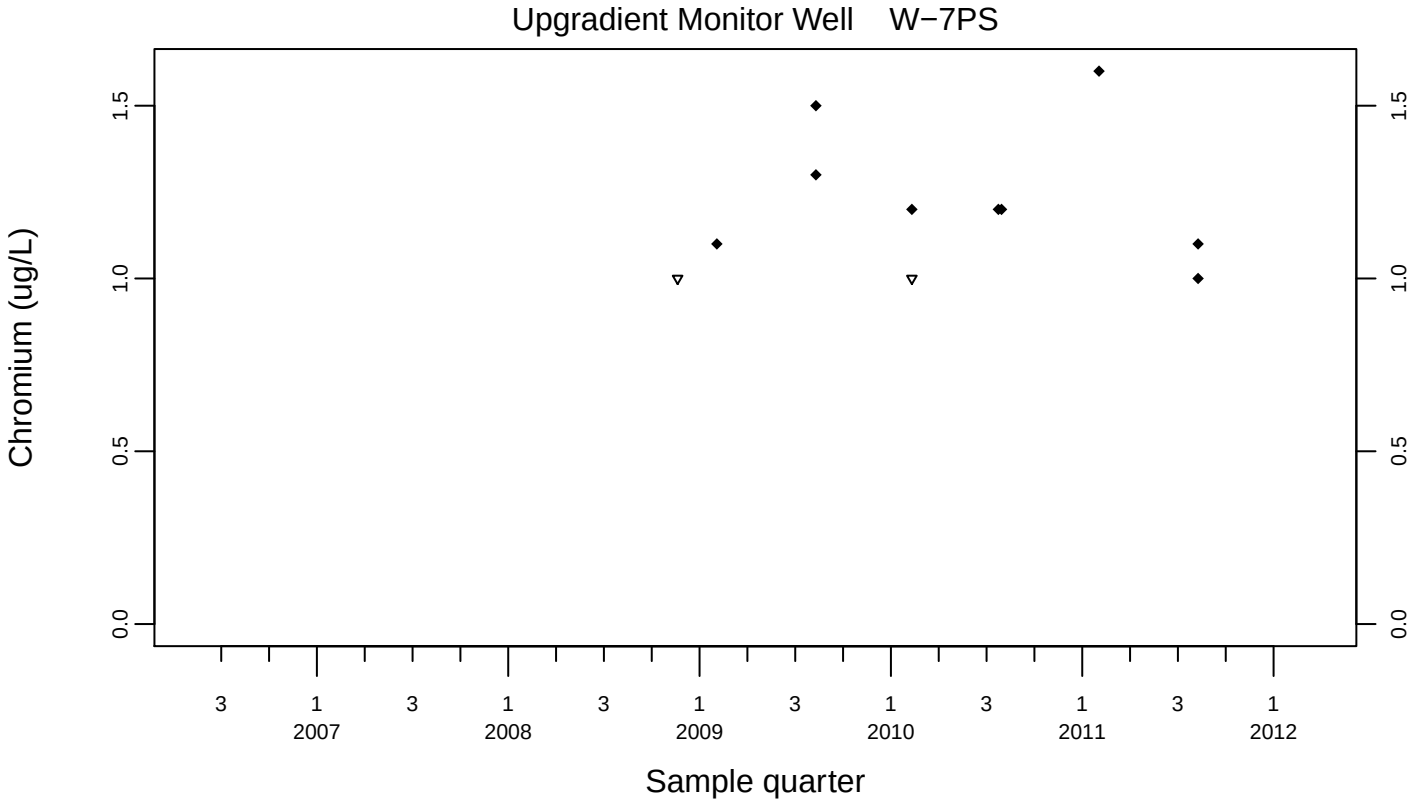

Downgradient Monitor Well W−25N−23
Calcium (ug/L)
0
20000
40000
60000
80000
120000
1
3
1
3
1
3
1
2009
2010
2011
2012
Sample quarter

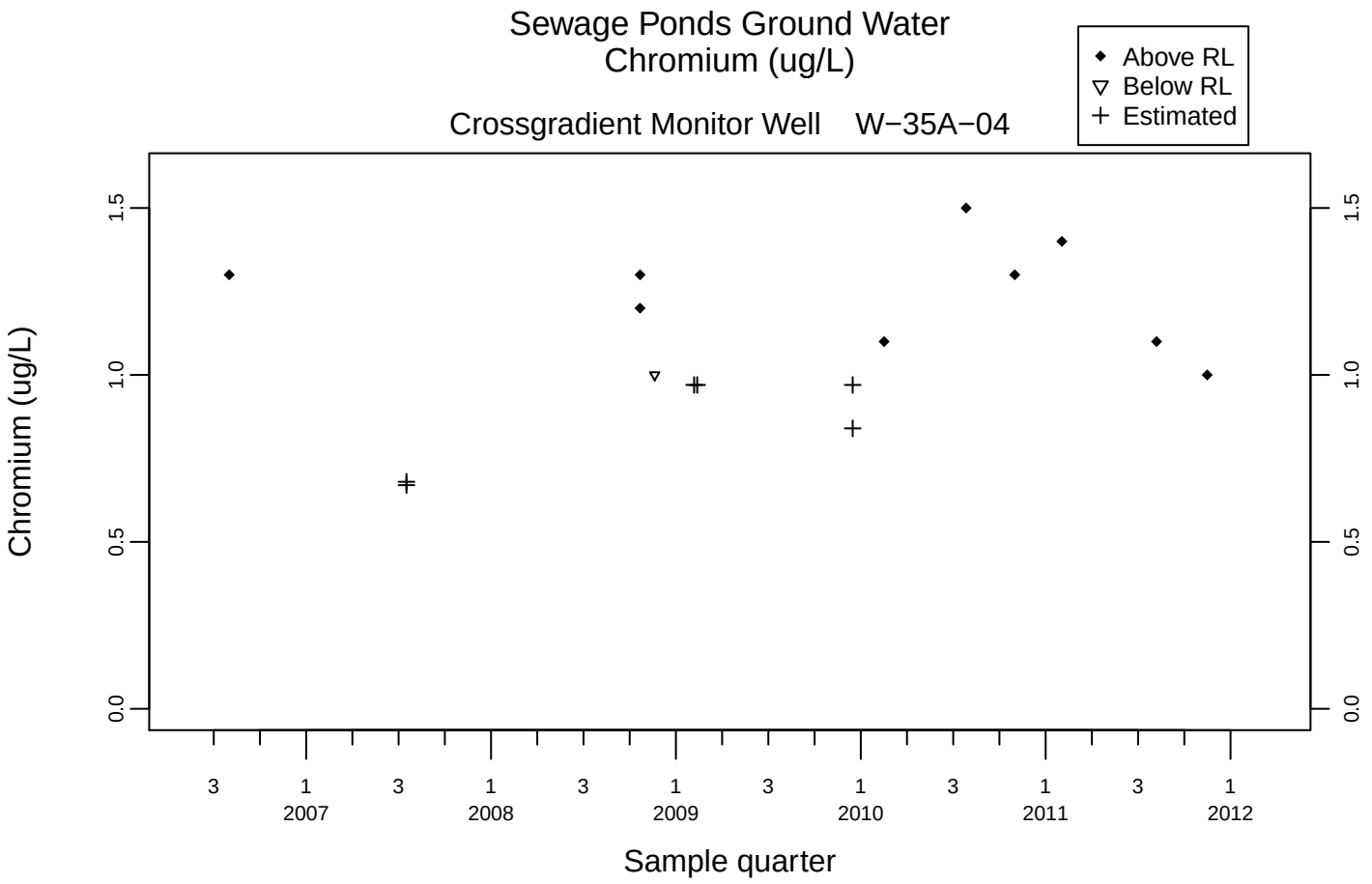

Sewage Ponds Ground Water
Calcium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Calcium (ug/L)
0
20000
40000
60000
80000
120000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

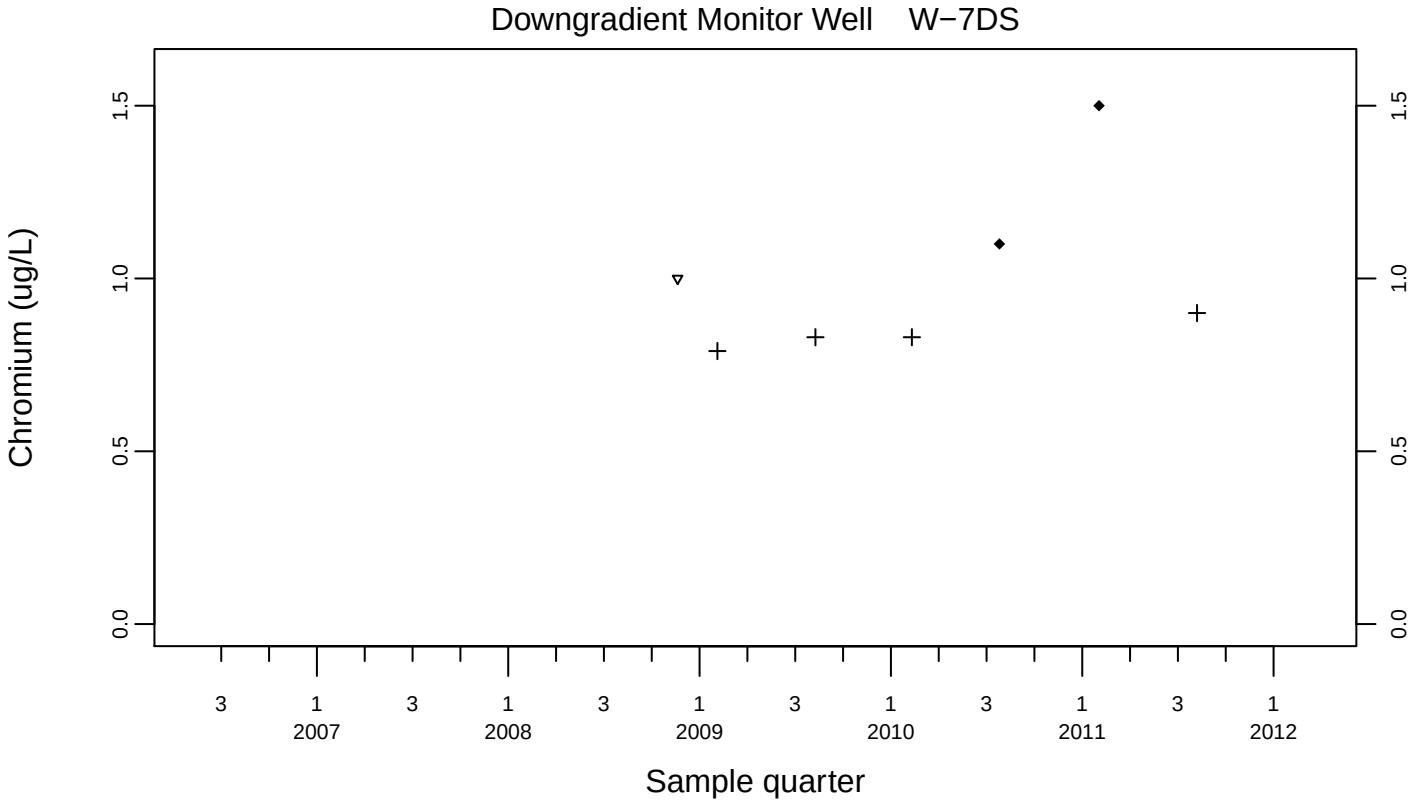

Downgradient Monitor Well W−26R−05
Calcium (ug/L)
0
20000
40000
60000
80000
120000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

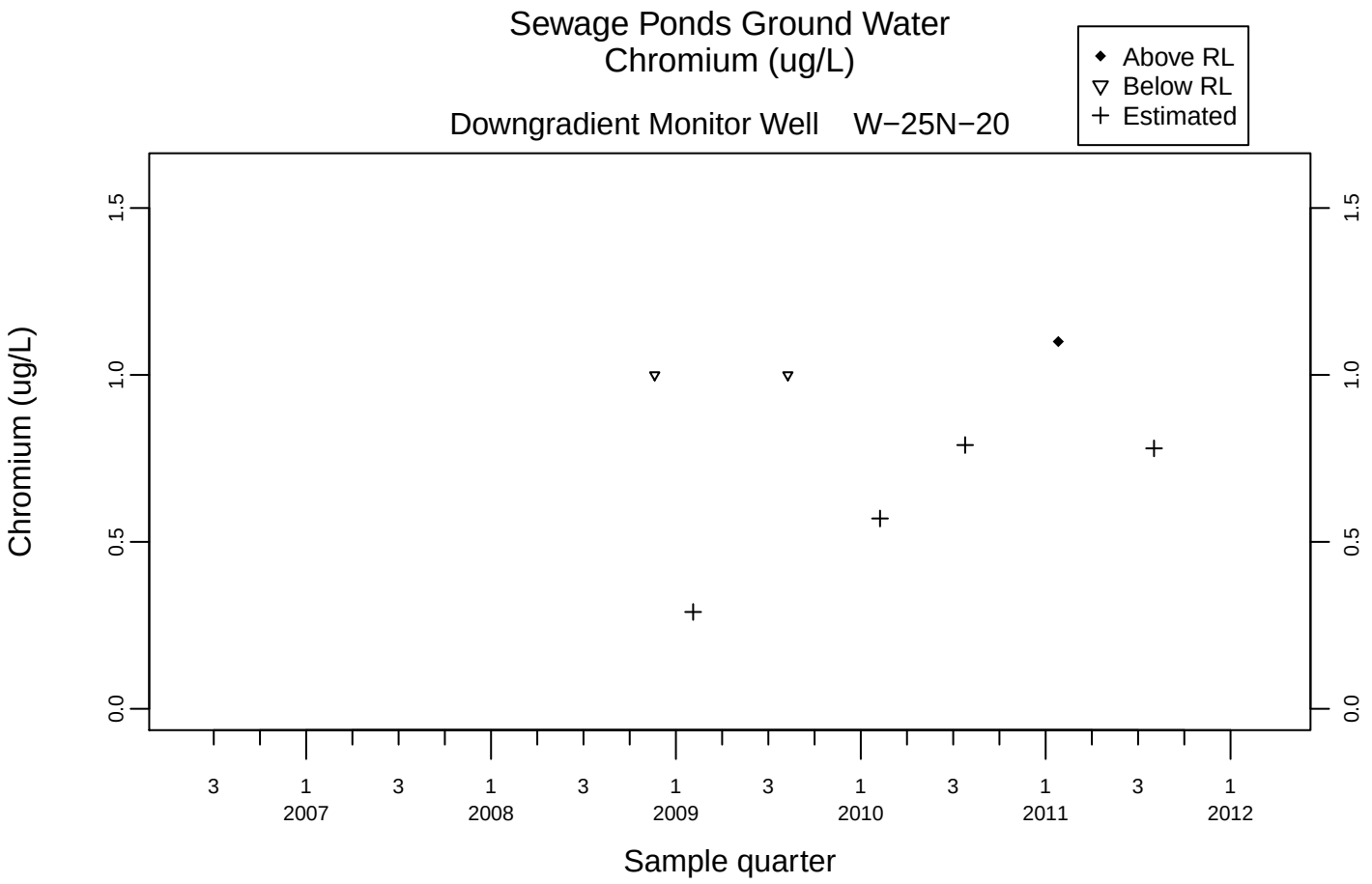

Sewage Ponds Ground Water
Calcium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Calcium (ug/L)
0
20000
40000
60000
80000
120000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

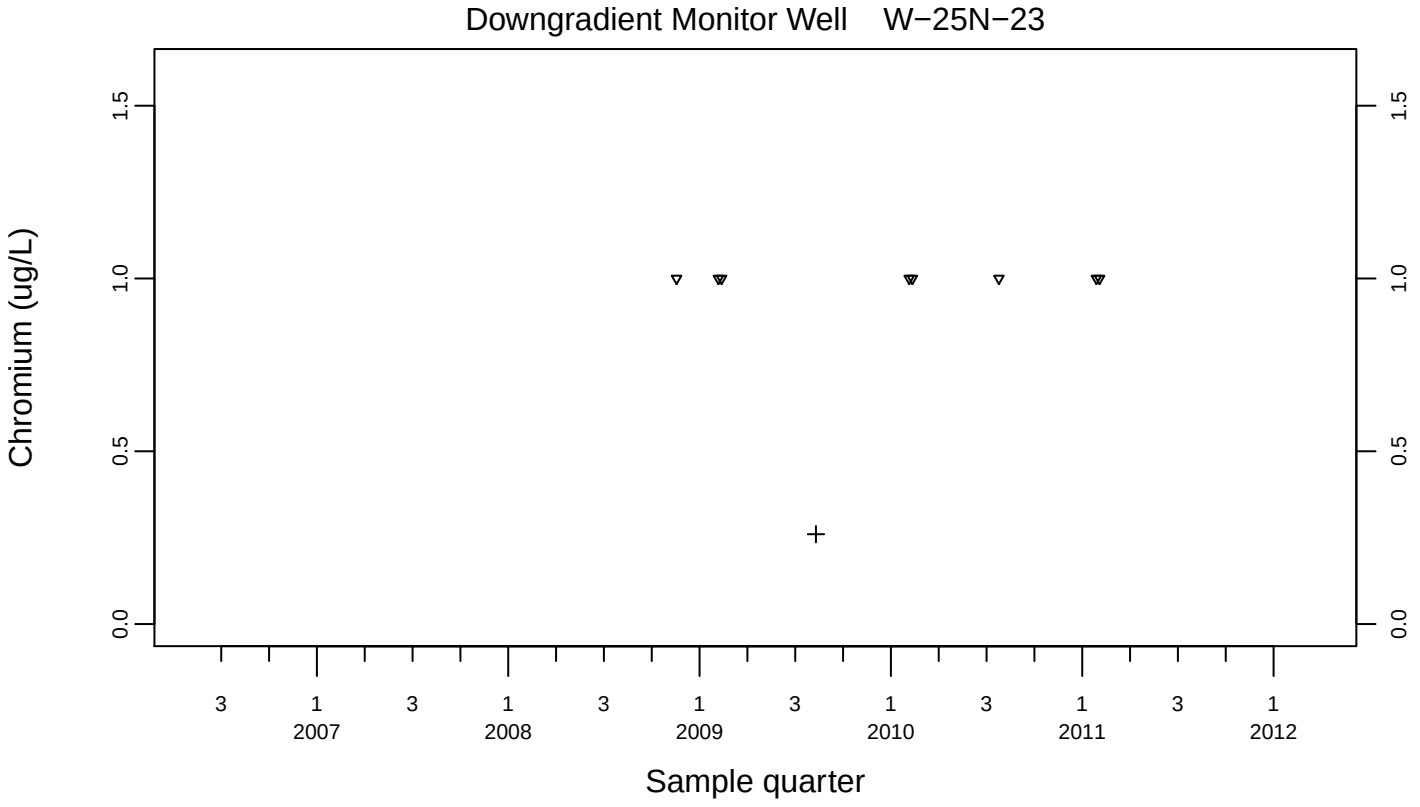

Sewage Ponds Ground Water
Chromium (ug/L)
Above RL
Below RL
Estimated
Upgradient Monitor Well W−7ES
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

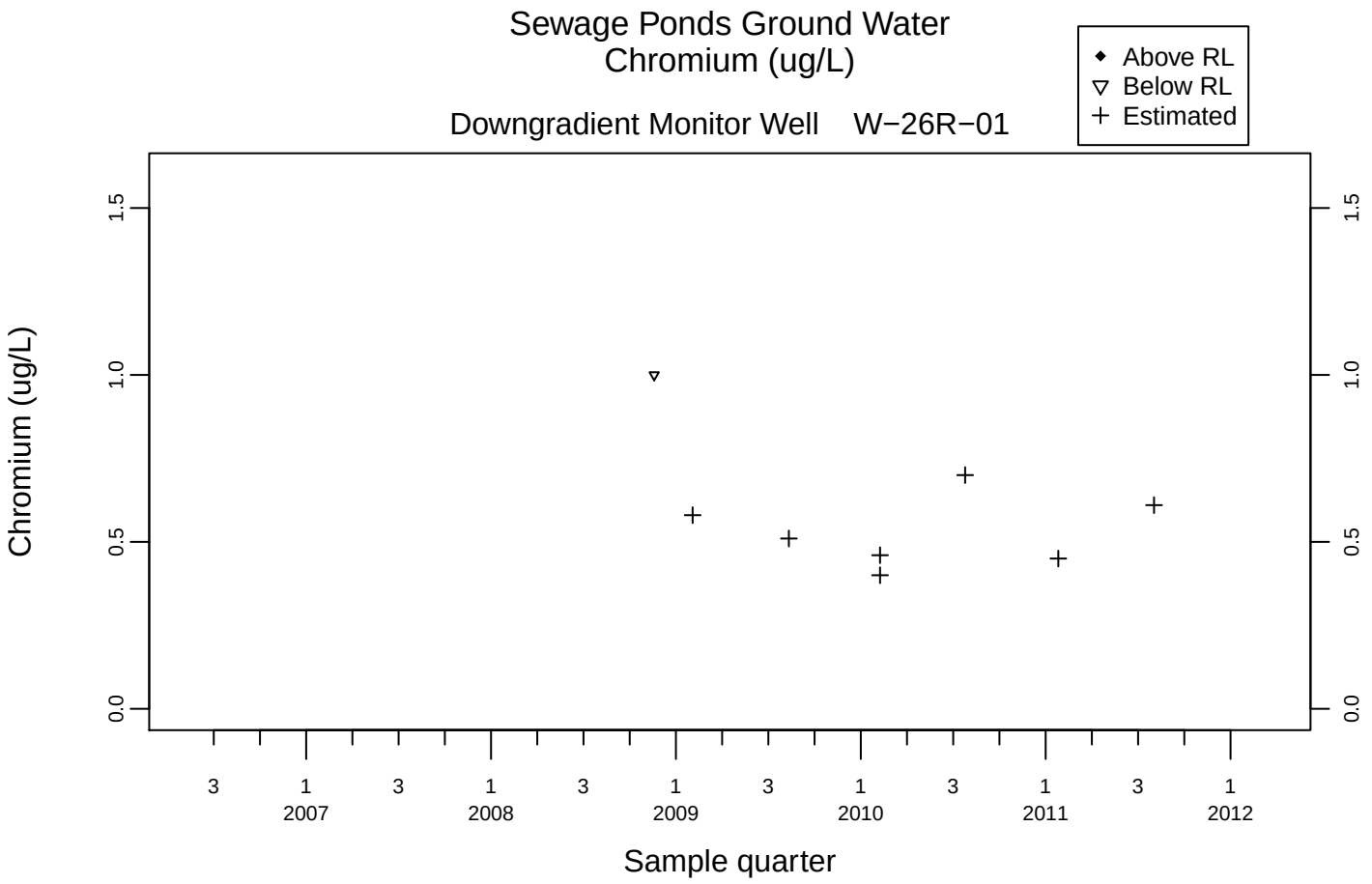

Upgradient Monitor Well W−7PS
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

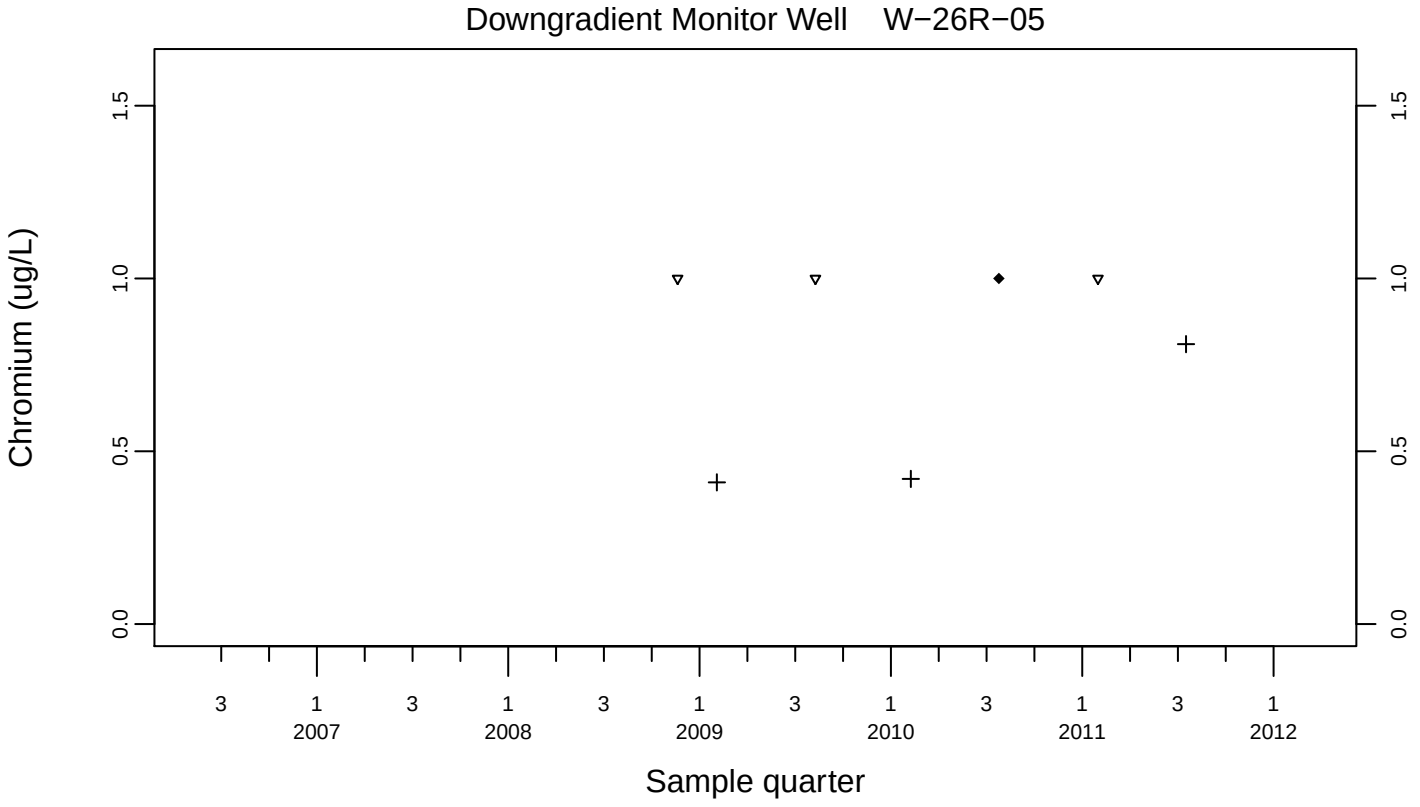

Sewage Ponds Ground Water
Chromium (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

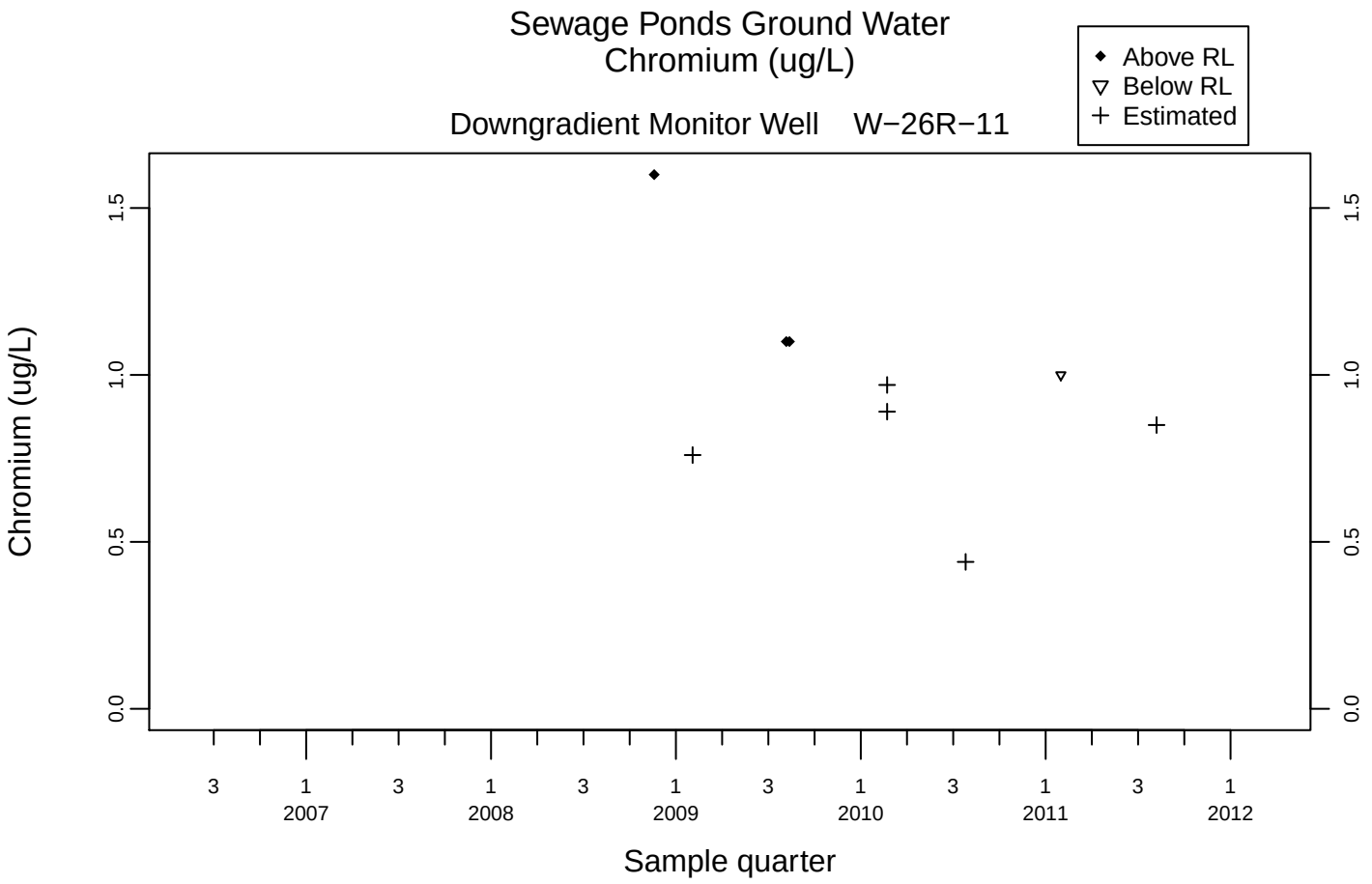

Downgradient Monitor Well W−7DS
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

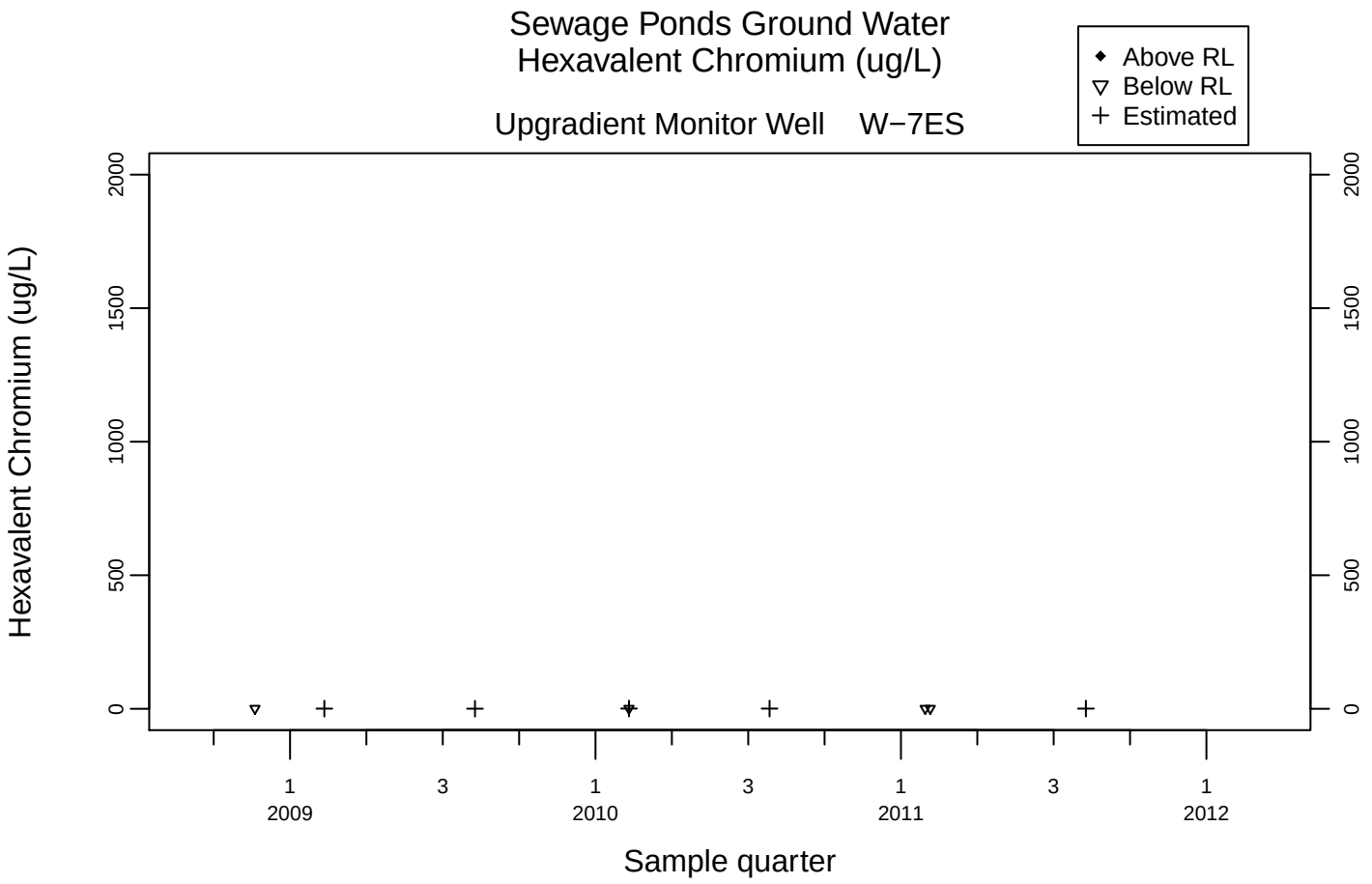

Sewage Ponds Ground Water
Chromium (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−25N−20
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

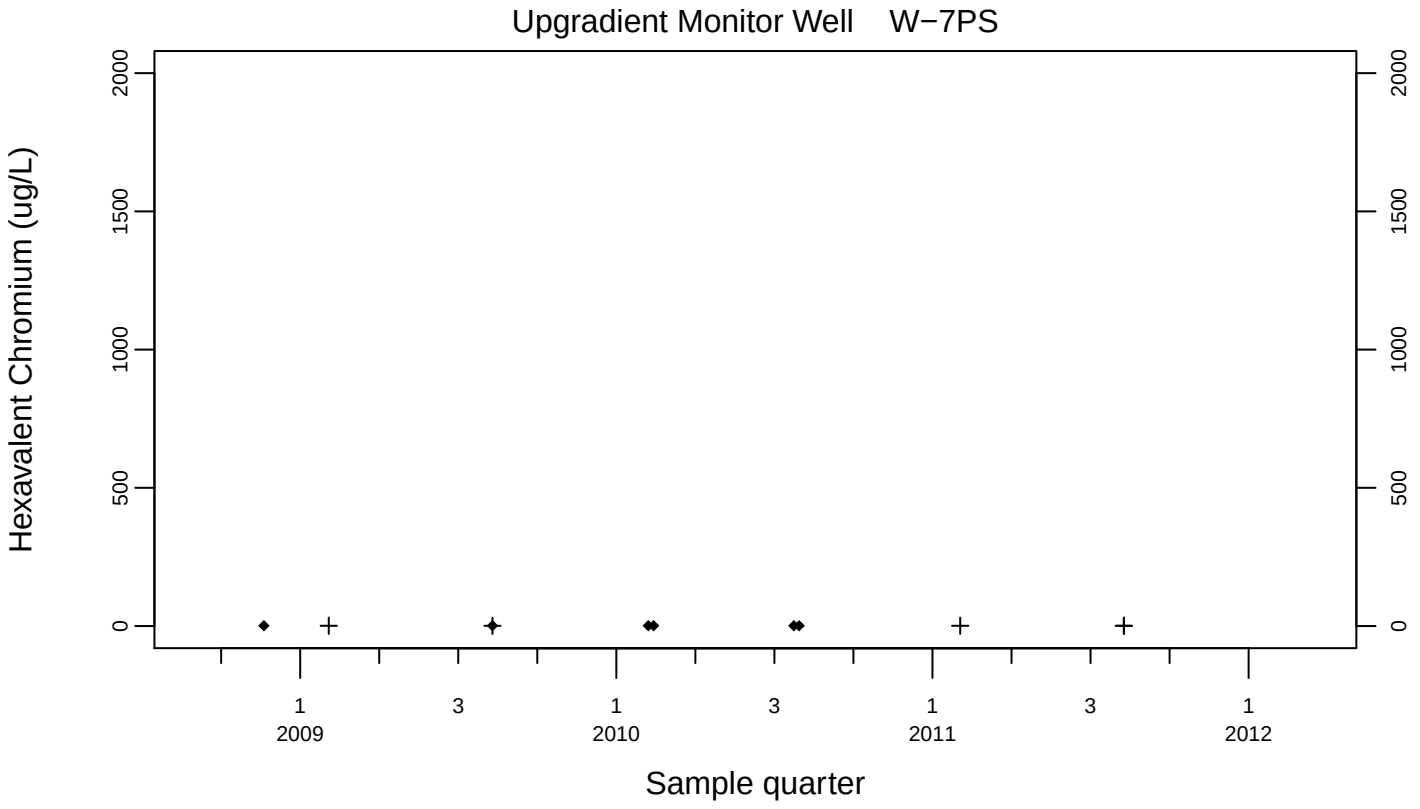

Downgradient Monitor Well W−25N−23
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

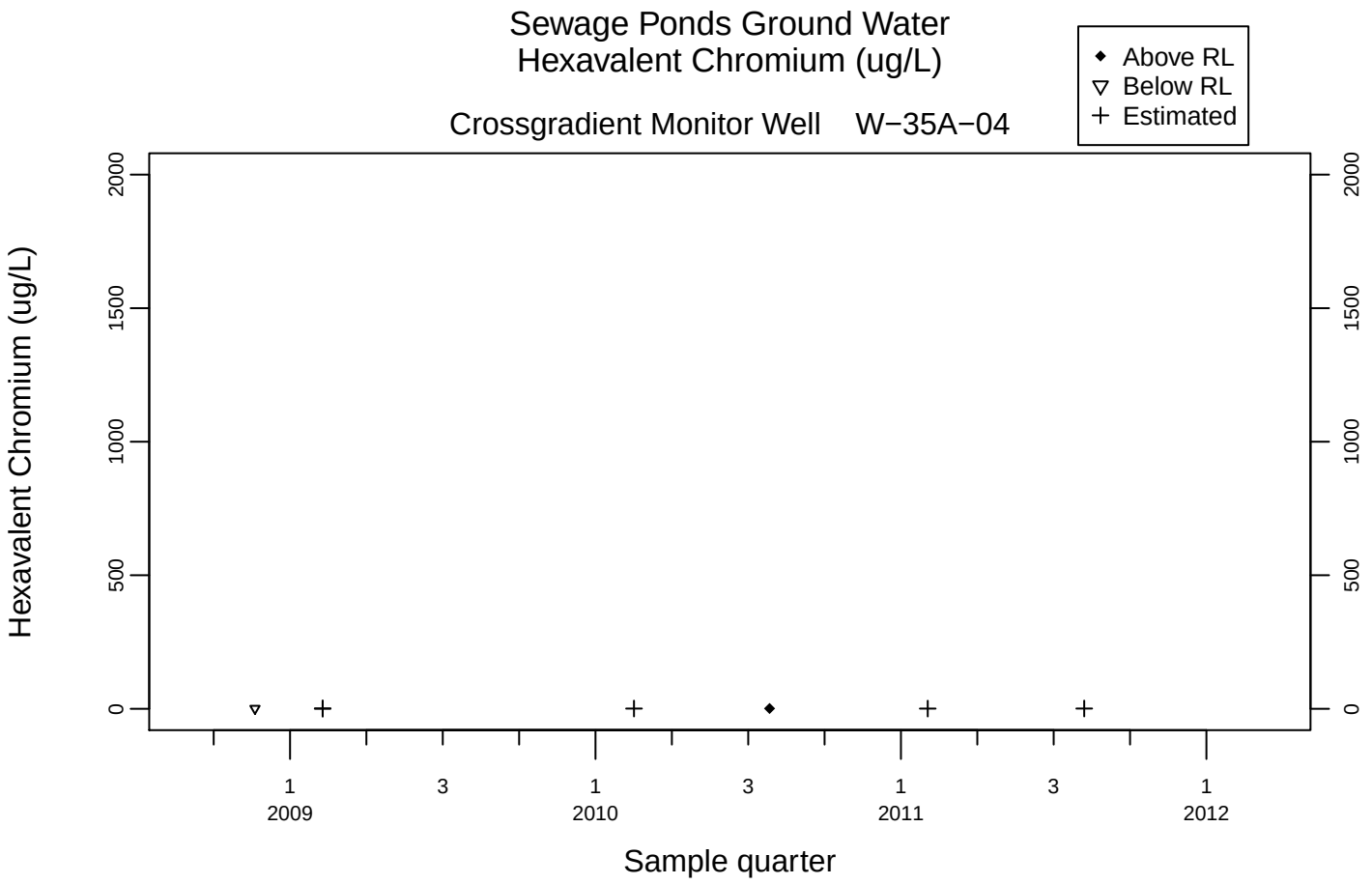

Sewage Ponds Ground Water
Chromium (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−26R−01
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

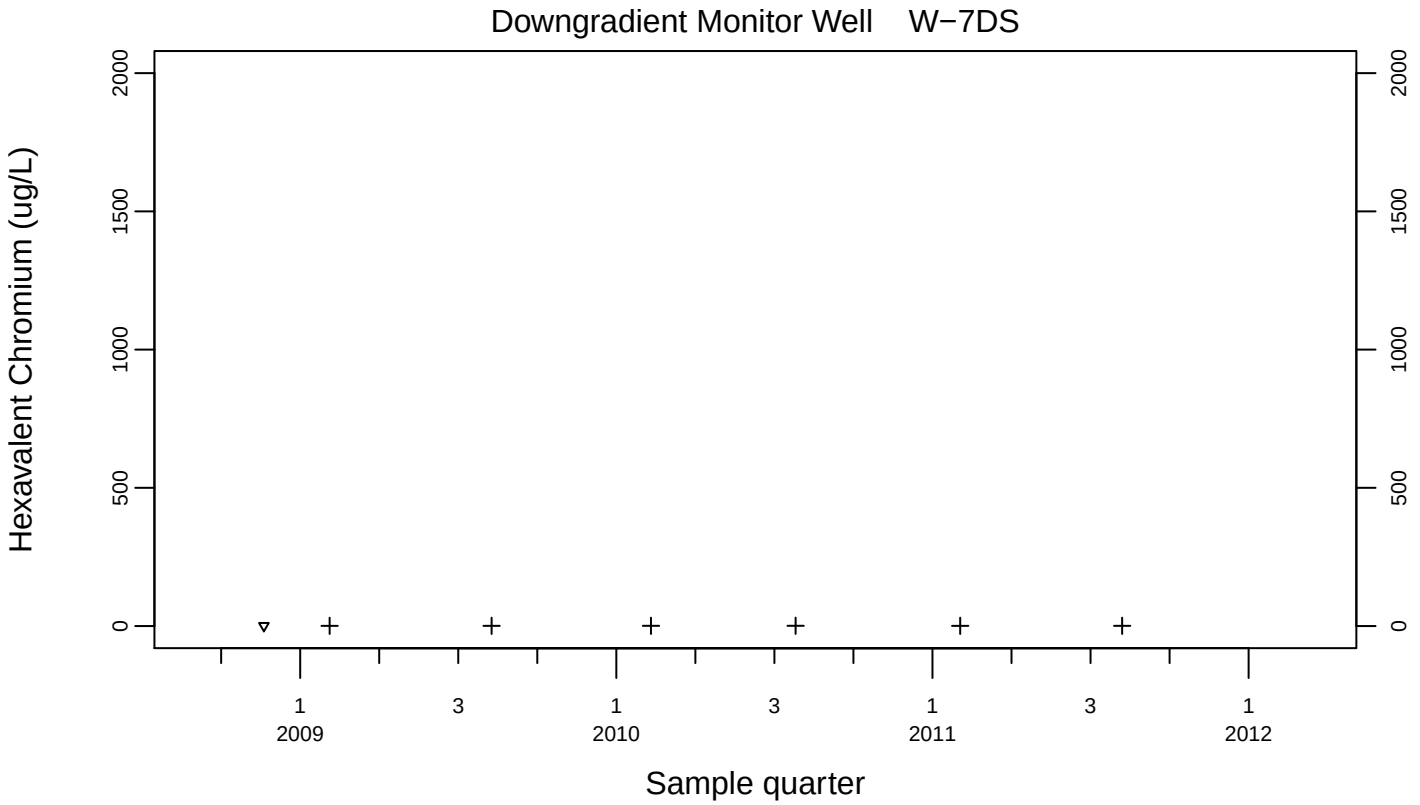

Downgradient Monitor Well W−26R−05
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

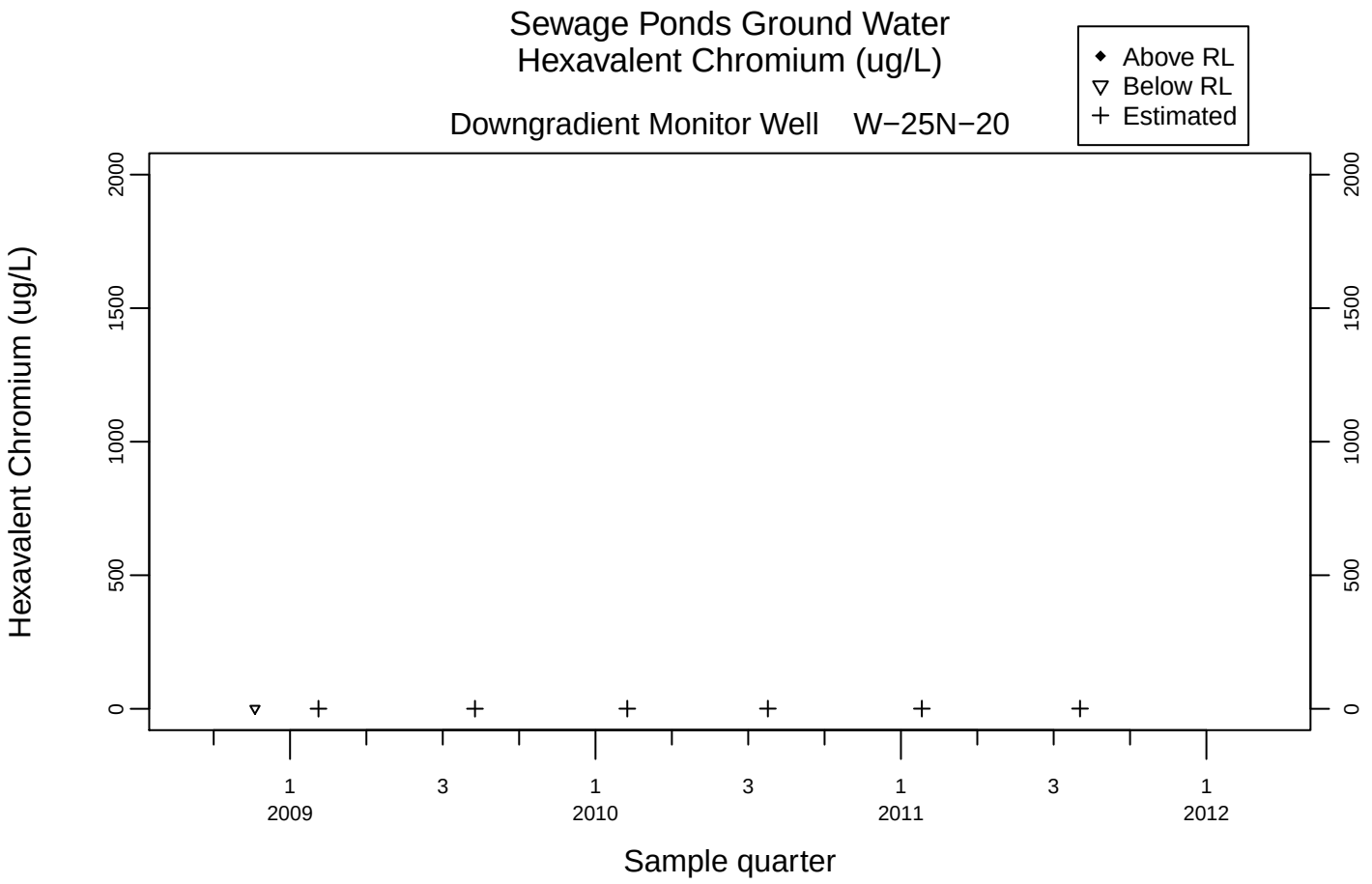

Sewage Ponds Ground Water
Chromium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Estimated
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

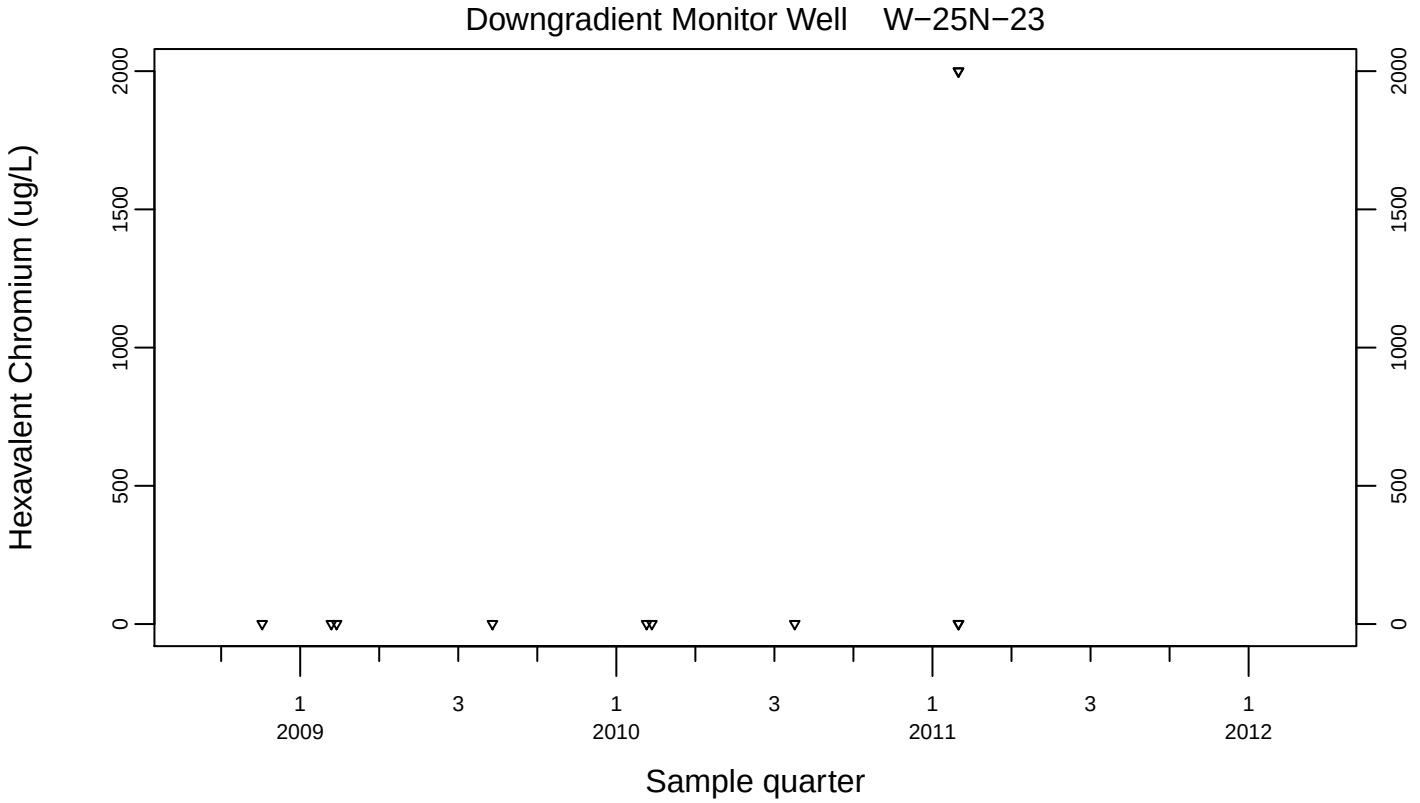

Sewage Ponds Ground Water
Hexavalent Chromium (ug/L)
Above RL
Below RL
Estimated
Upgradient Monitor Well W−7ES
Hexavalent Chromium (ug/L)
0
500
1000
1500
2000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

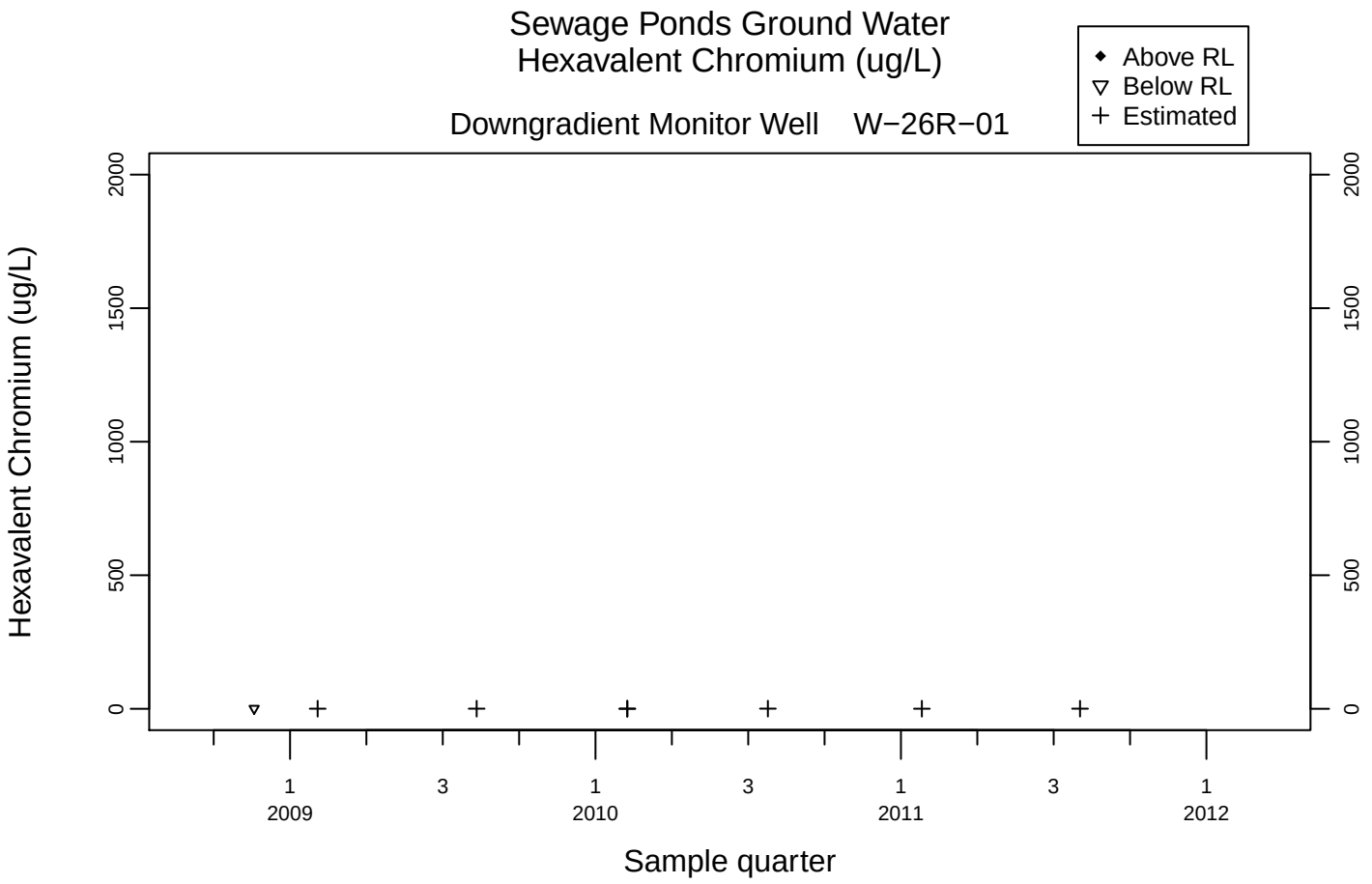

Upgradient Monitor Well W−7PS
Hexavalent Chromium (ug/L)
0
500
1000
1500
2000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

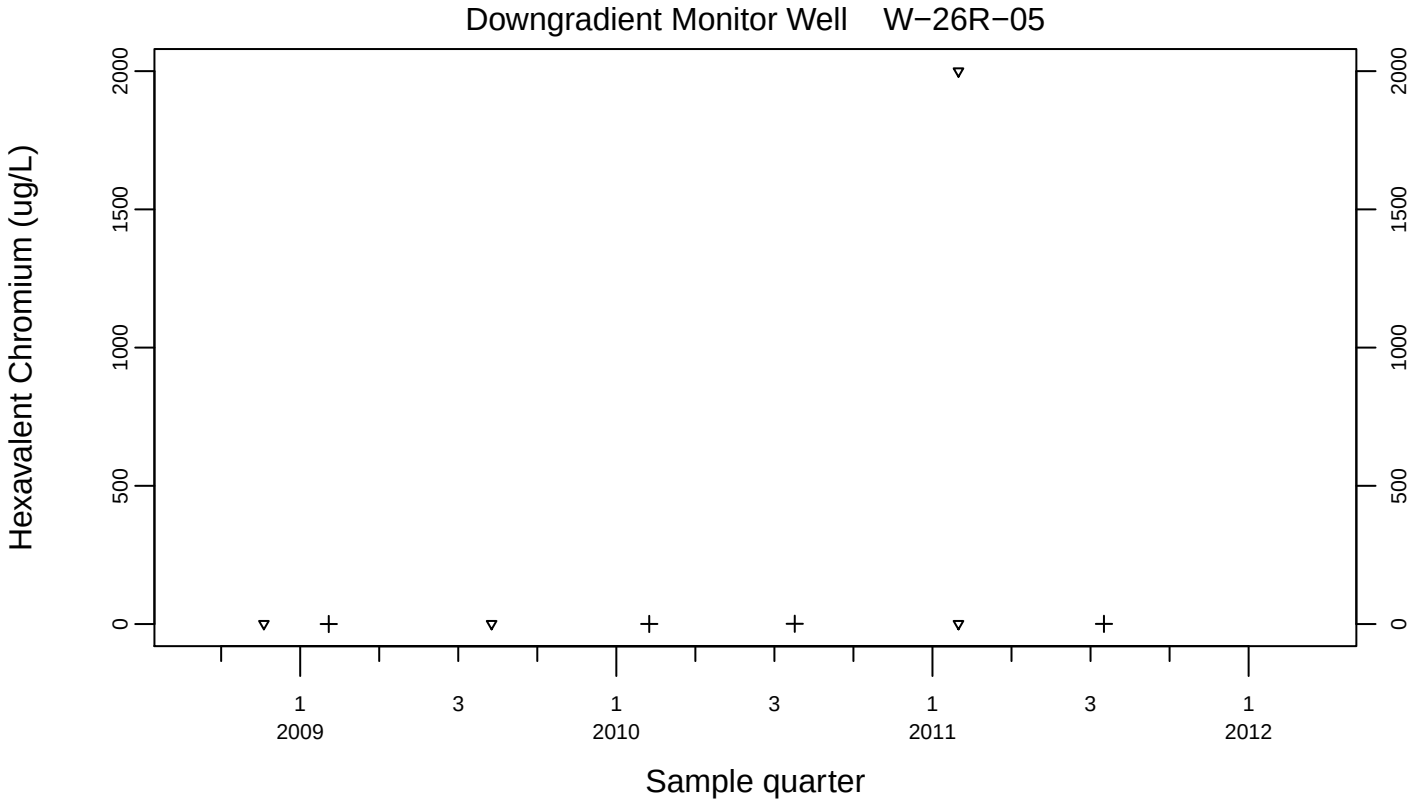

Sewage Ponds Ground Water
Hexavalent Chromium (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Hexavalent Chromium (ug/L)
0
500
1000
1500
2000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

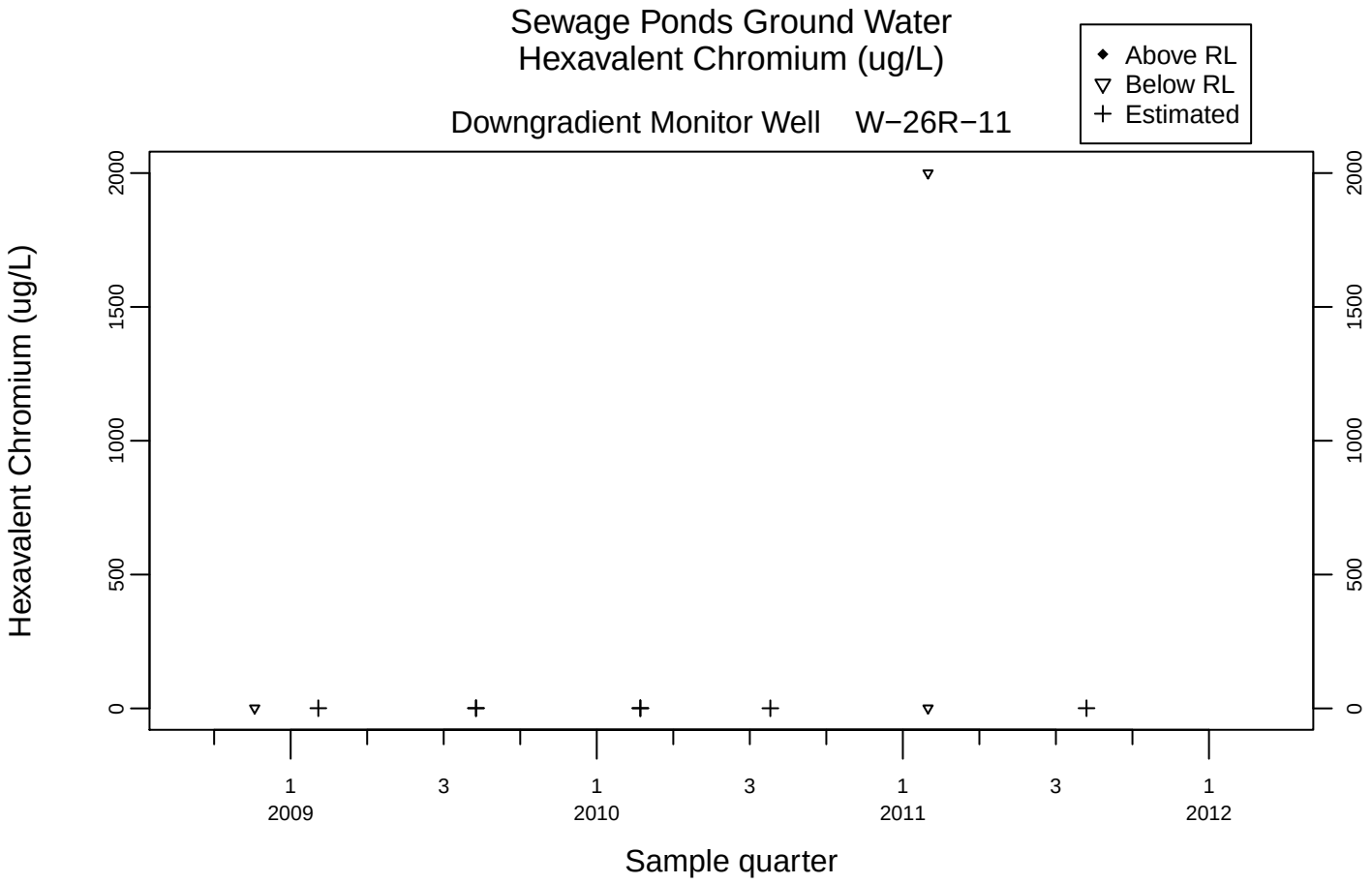

Downgradient Monitor Well W−7DS
Hexavalent Chromium (ug/L)
0
500
1000
1500
2000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

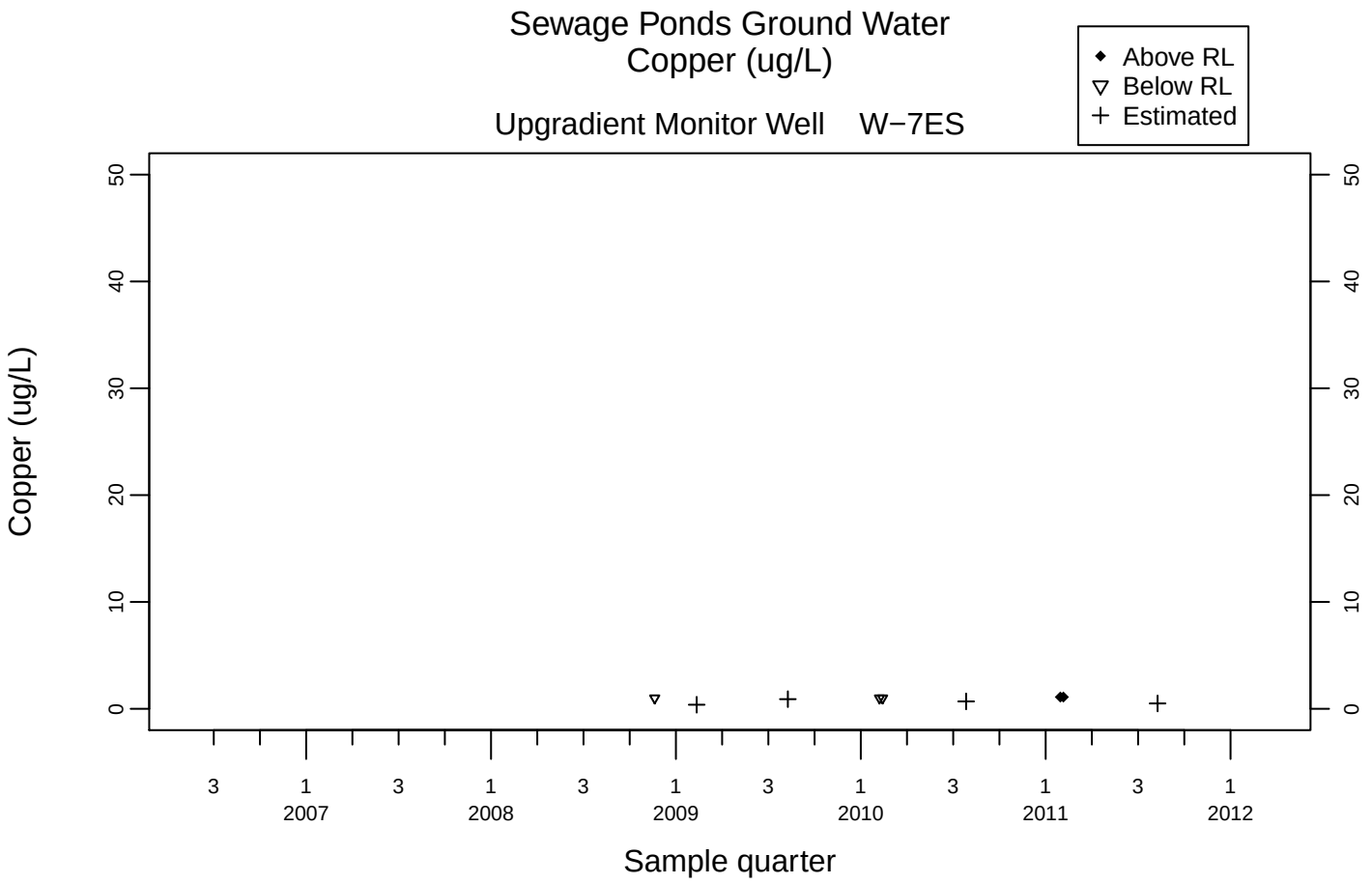

Sewage Ponds Ground Water
Hexavalent Chromium (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−25N−20
Hexavalent Chromium (ug/L)
0
500
1000
1500
2000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

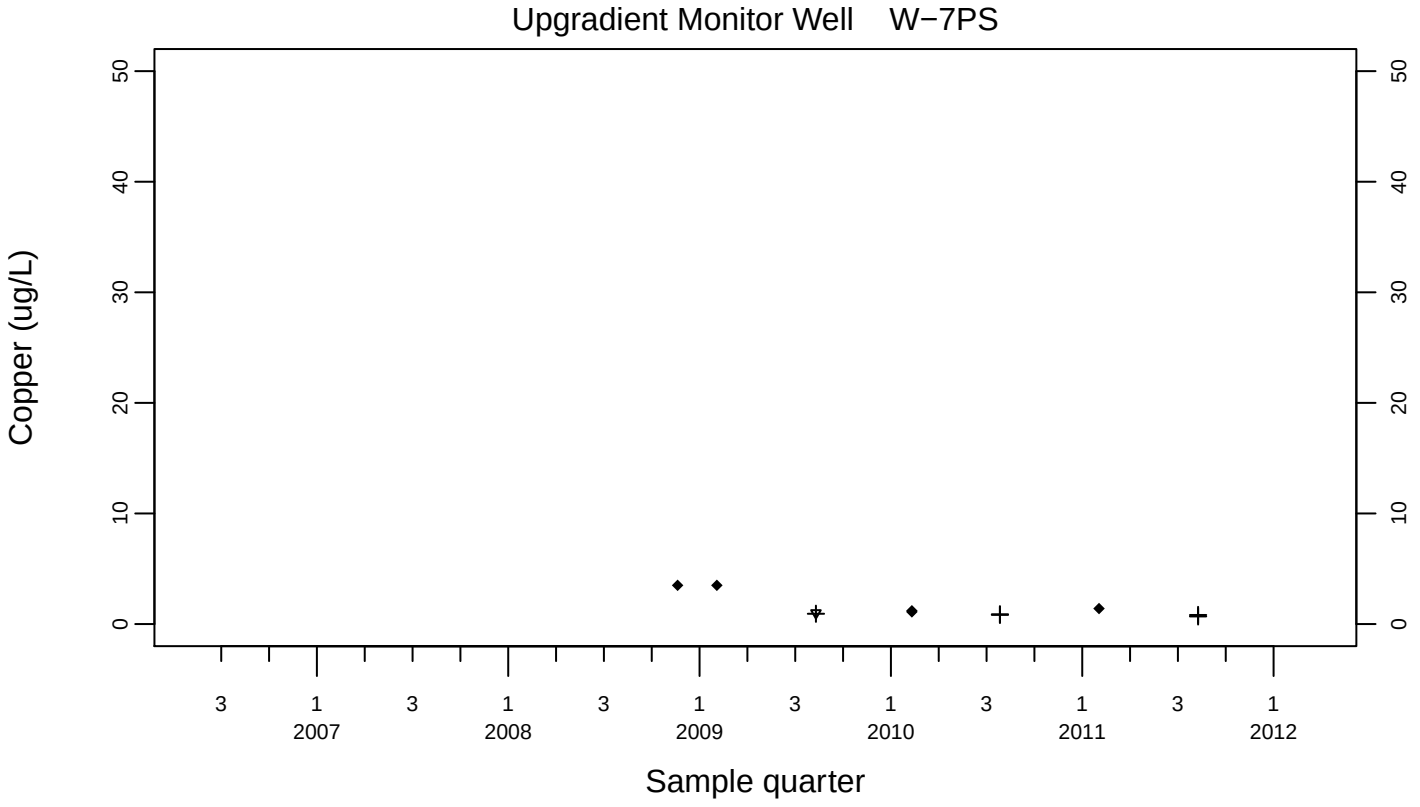

Downgradient Monitor Well W−25N−23
Hexavalent Chromium (ug/L)
0
500
1000
1500
2000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

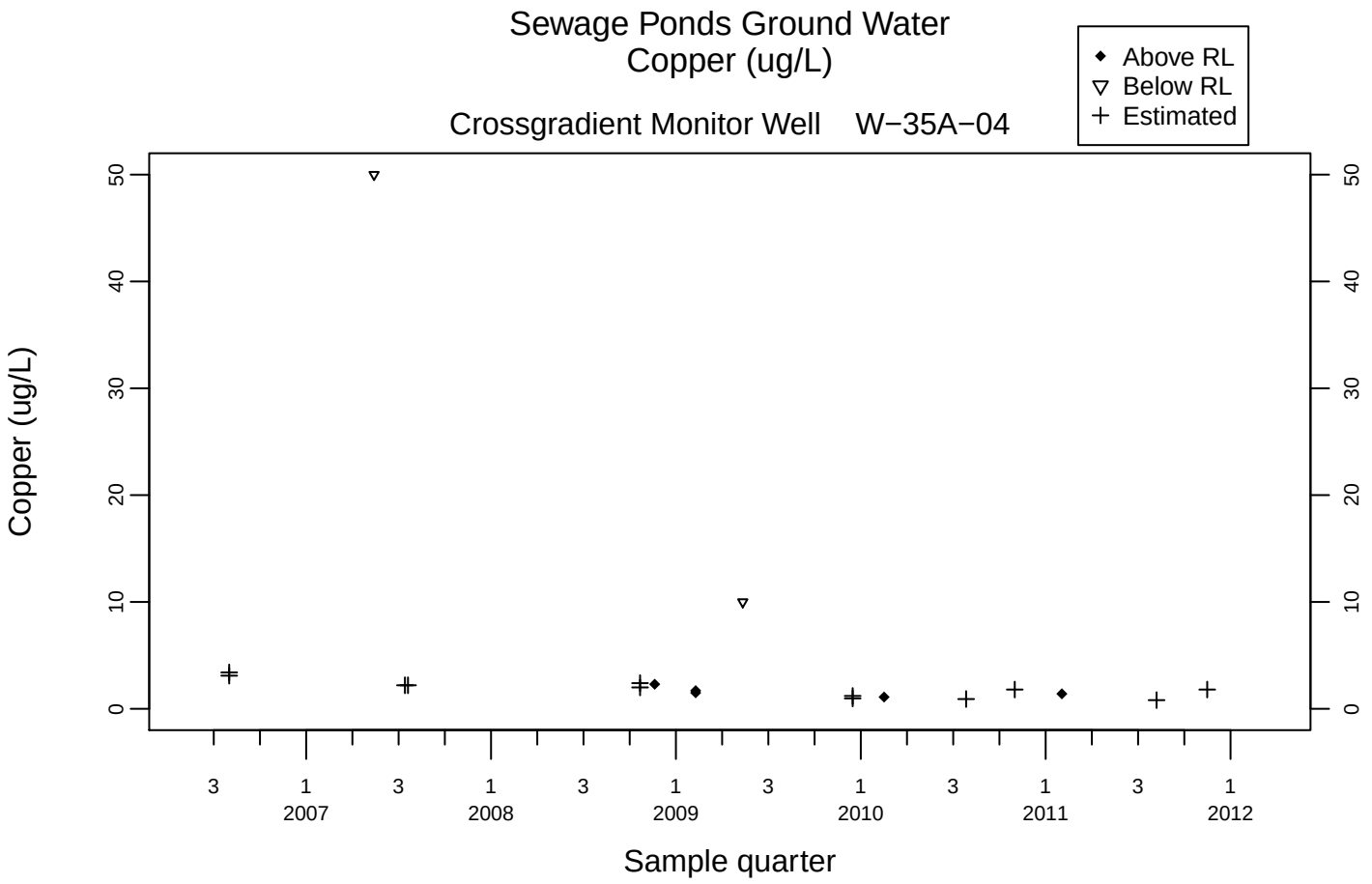

Sewage Ponds Ground Water
Hexavalent Chromium (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−26R−01
Hexavalent Chromium (ug/L)
0
500
1000
1500
2000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

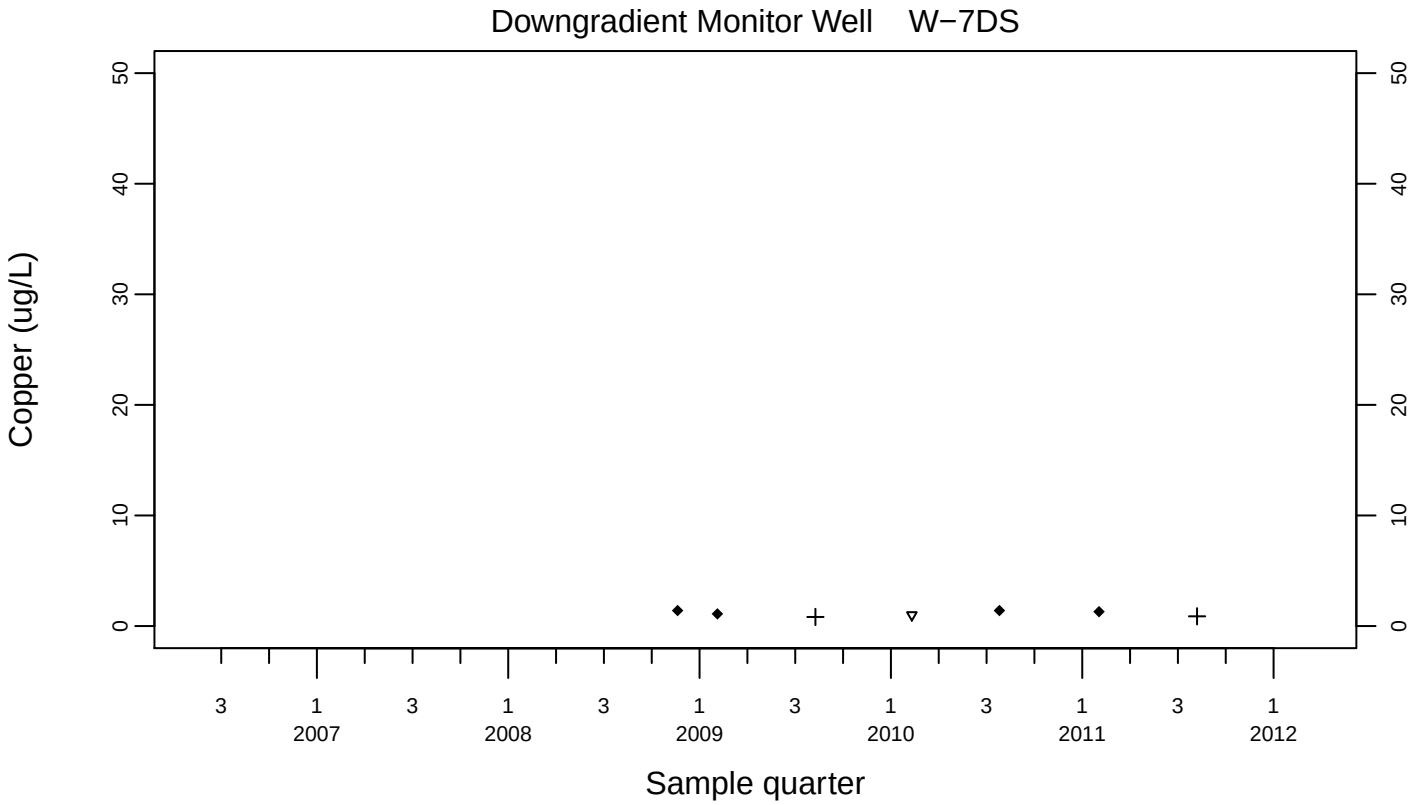

Downgradient Monitor Well W−26R−05
Hexavalent Chromium (ug/L)
0
500
1000
1500
2000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

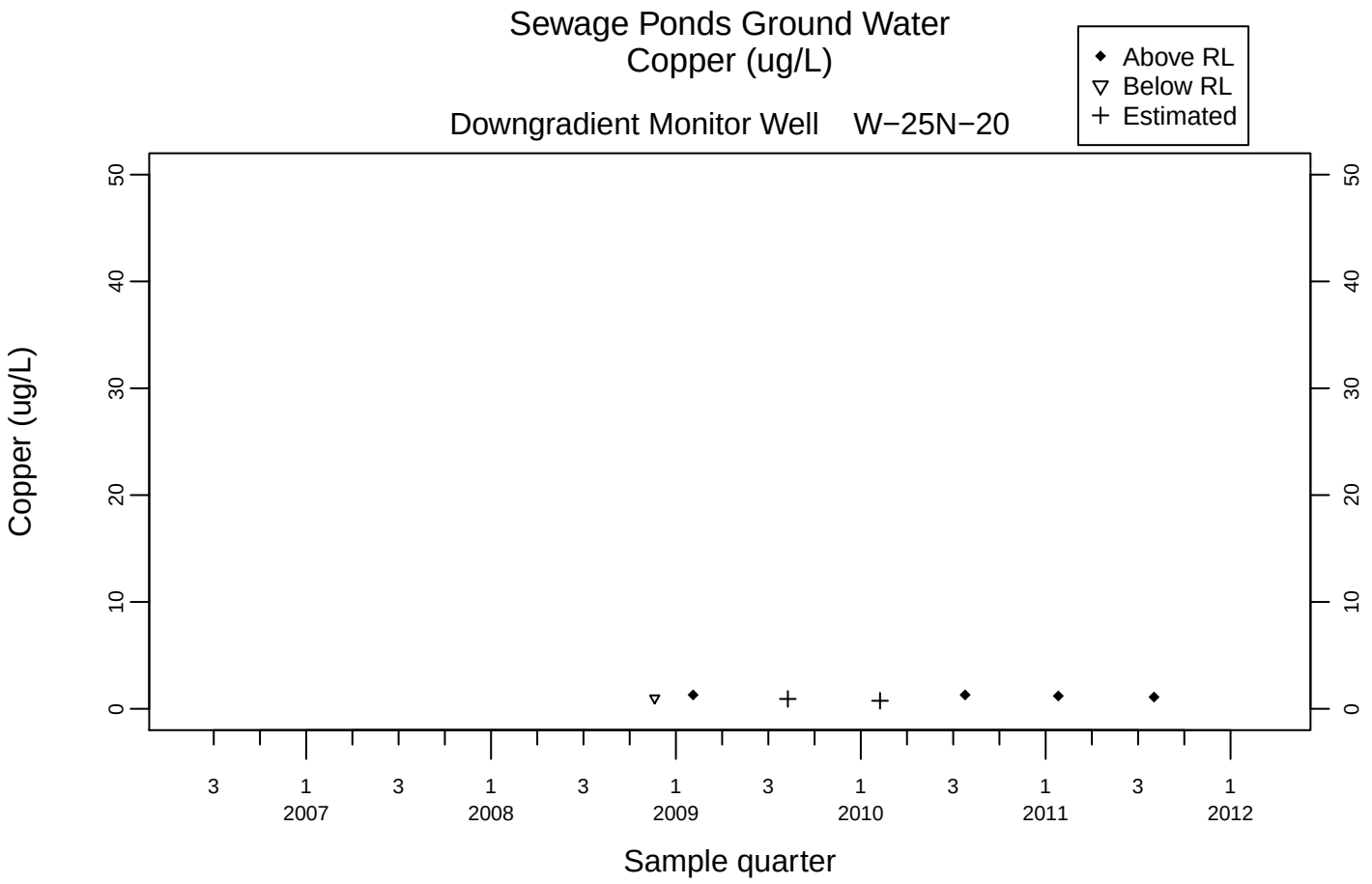

Sewage Ponds Ground Water
Hexavalent Chromium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Estimated
Hexavalent Chromium (ug/L)
0
500
1000
1500
2000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

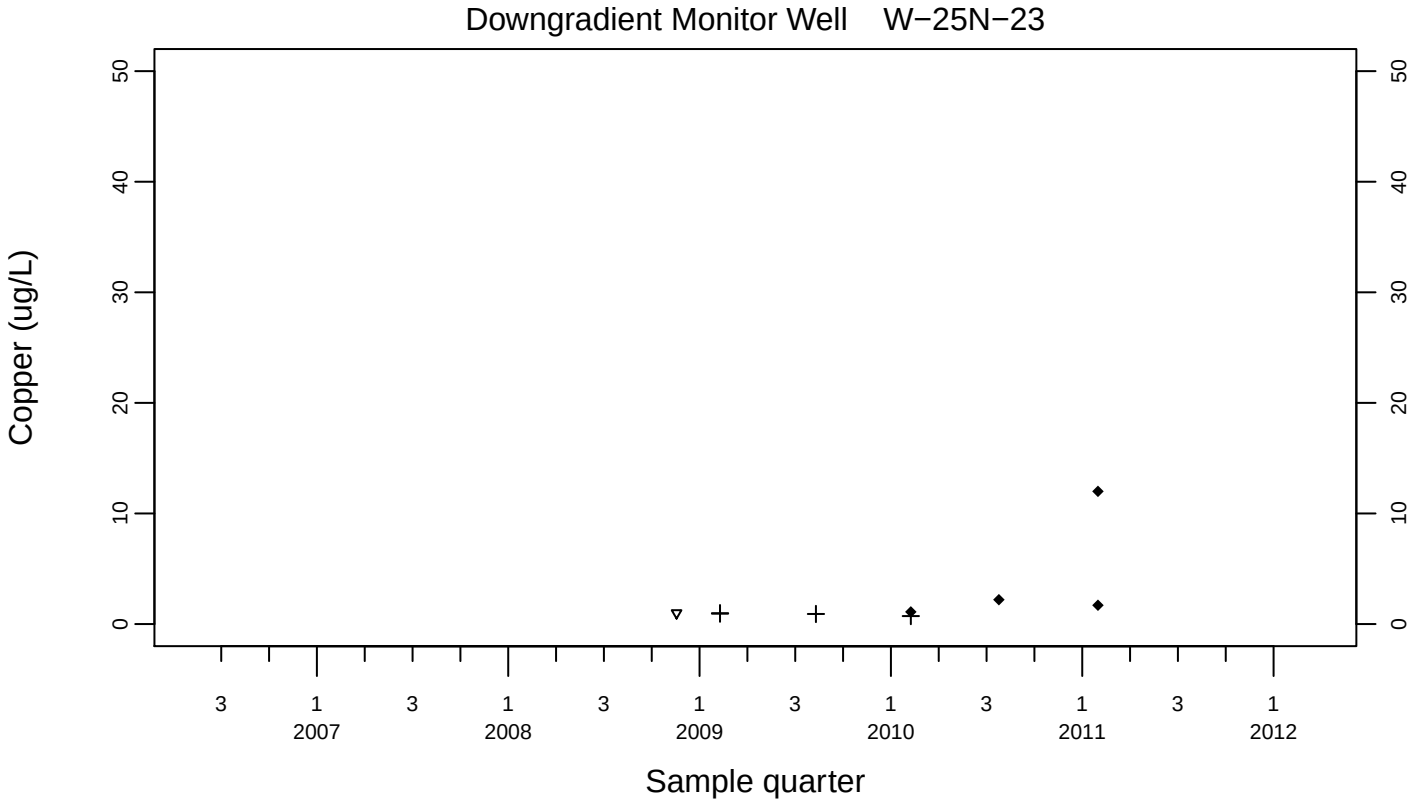

Sewage Ponds Ground Water
Copper (ug/L)
Above RL
Below RL
Estimated
Upgradient Monitor Well W−7ES
Copper (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

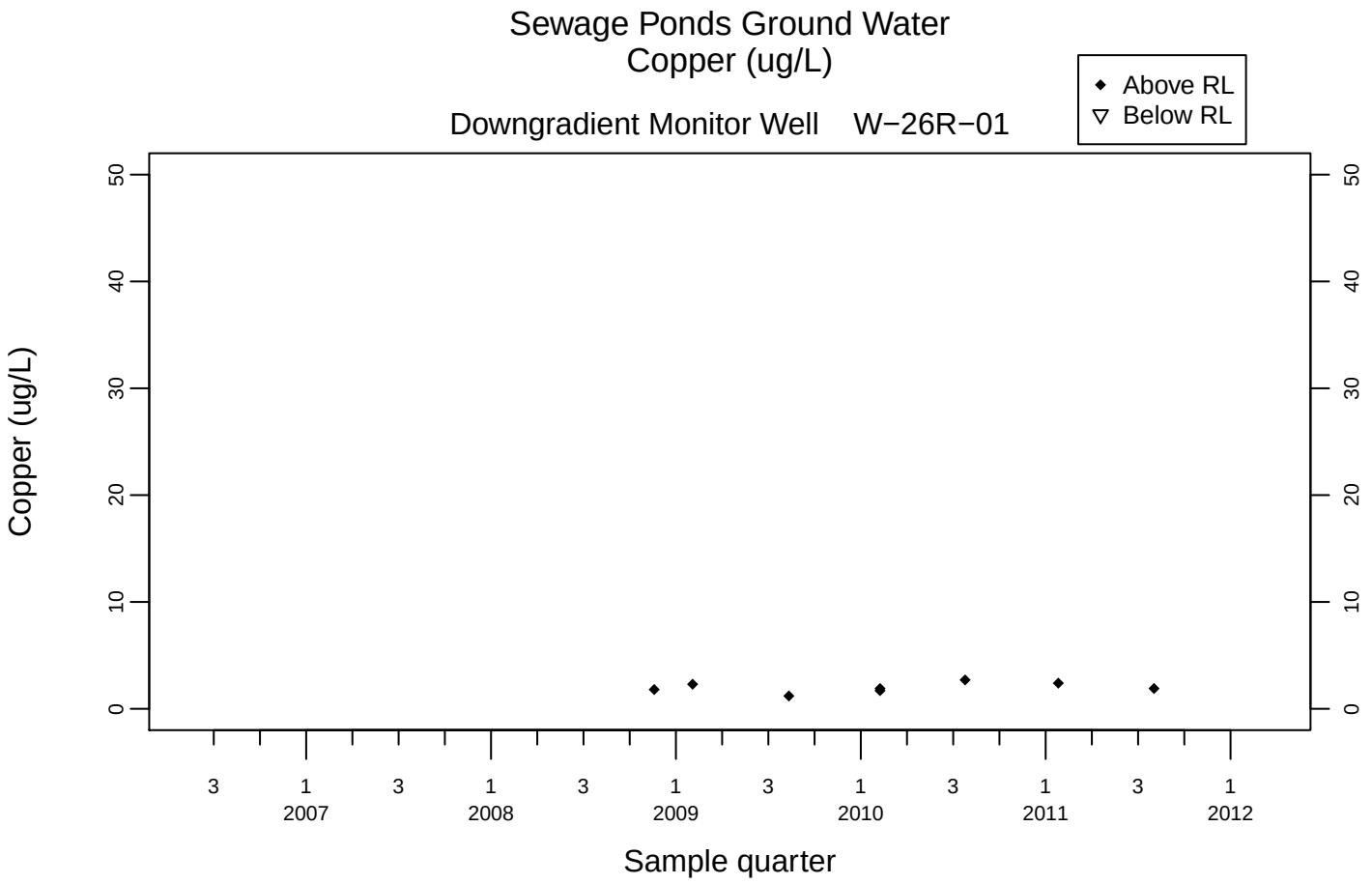

Upgradient Monitor Well W−7PS
Copper (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

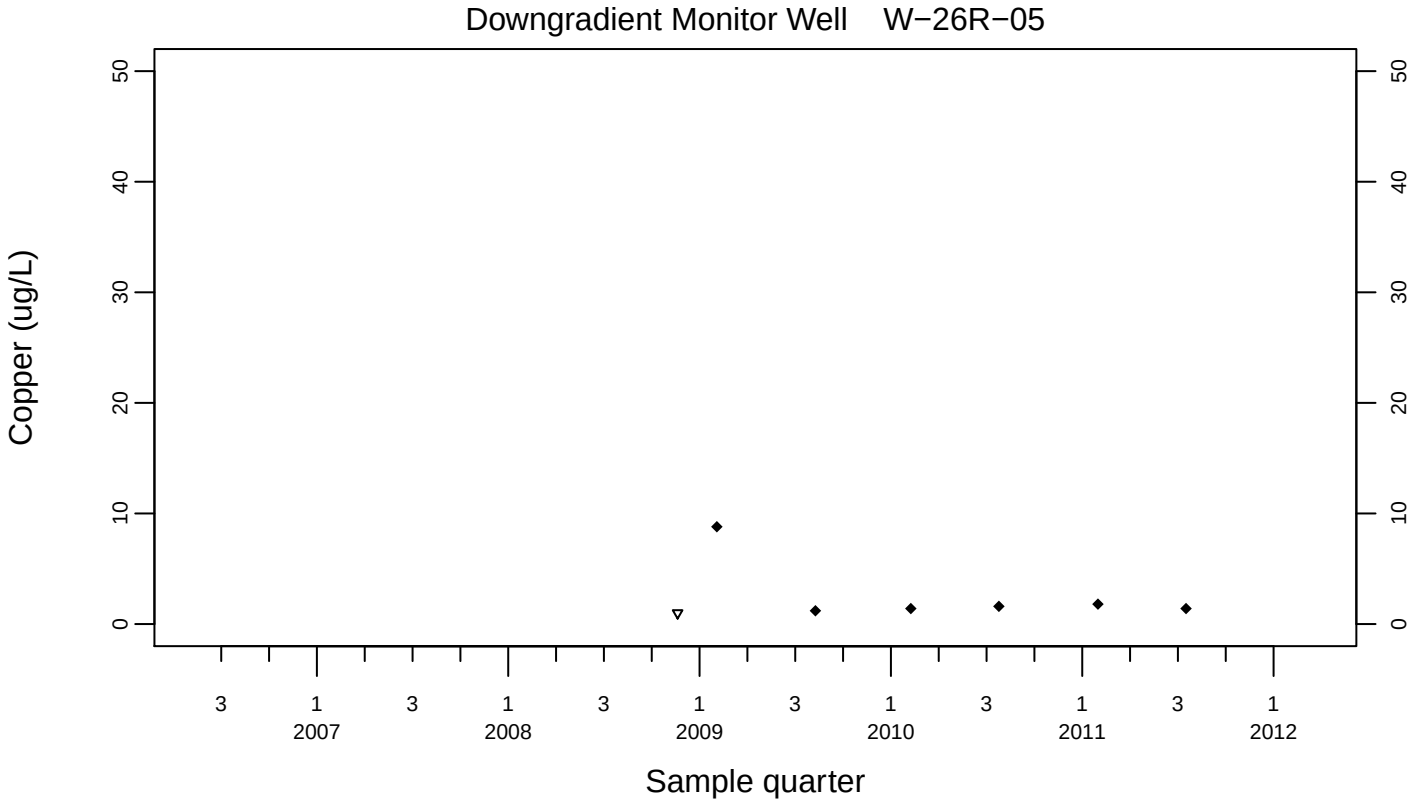

Sewage Ponds Ground Water
Copper (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Copper (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

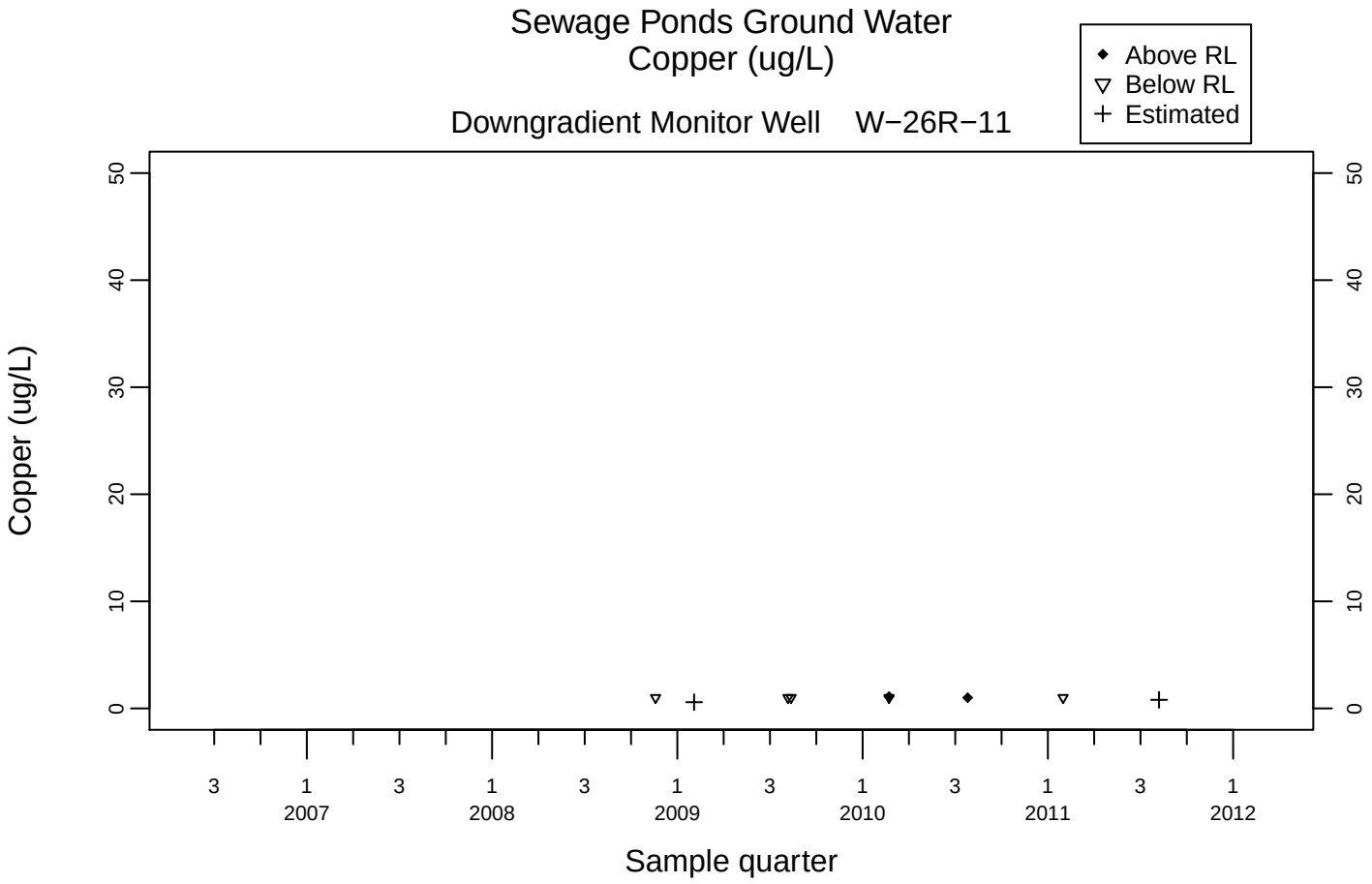

Downgradient Monitor Well W−7DS
Copper (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

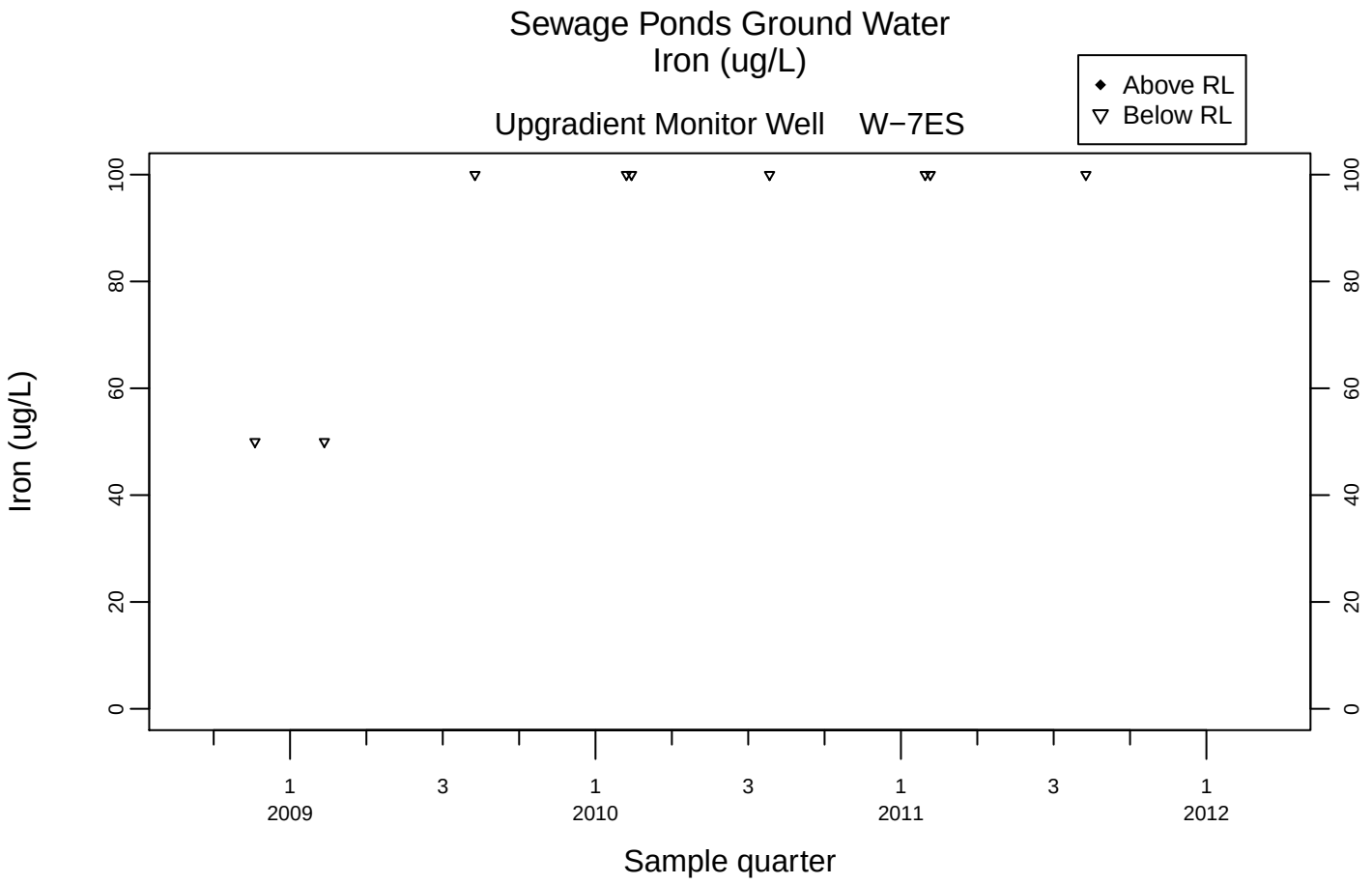

Sewage Ponds Ground Water
Copper (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−25N−20
Copper (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

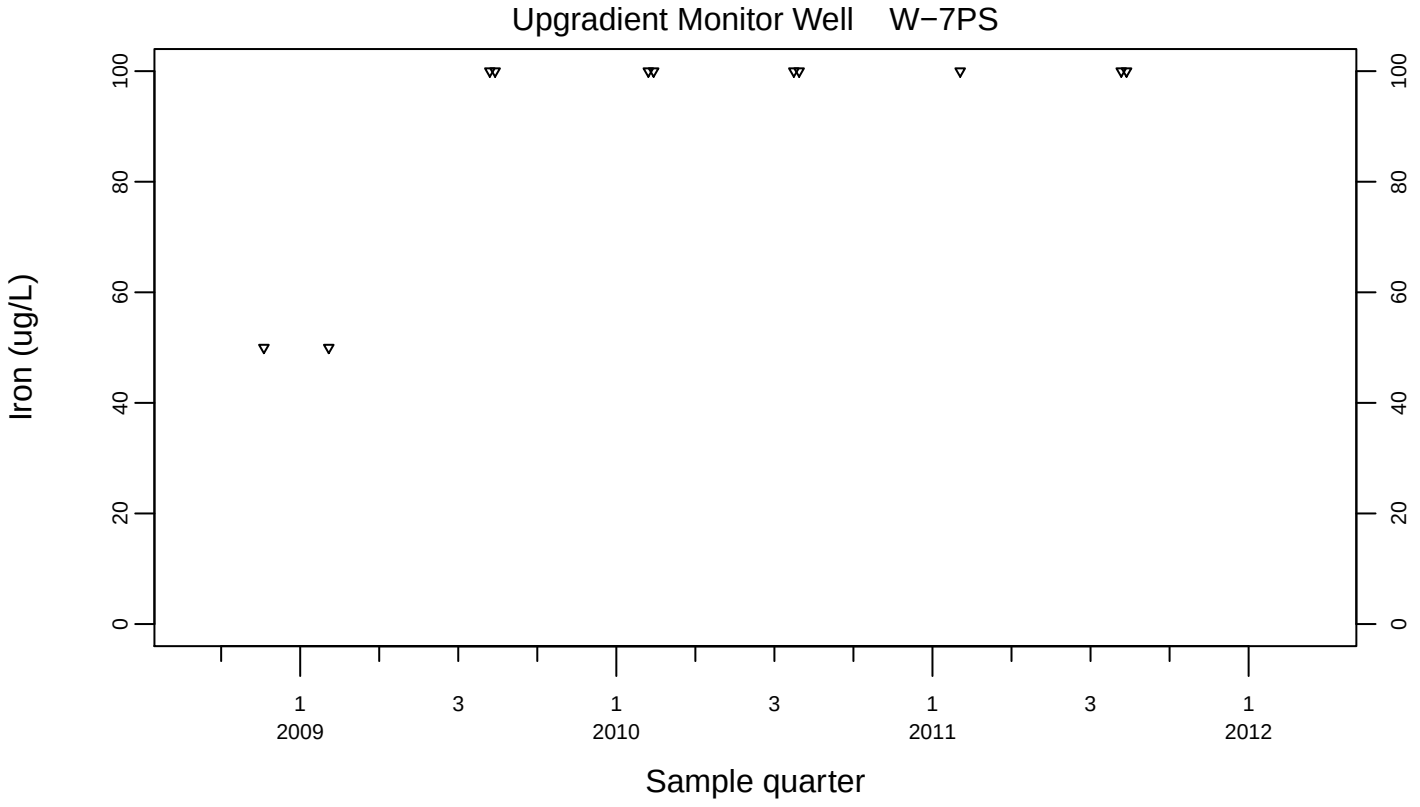

Downgradient Monitor Well W−25N−23
Copper (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

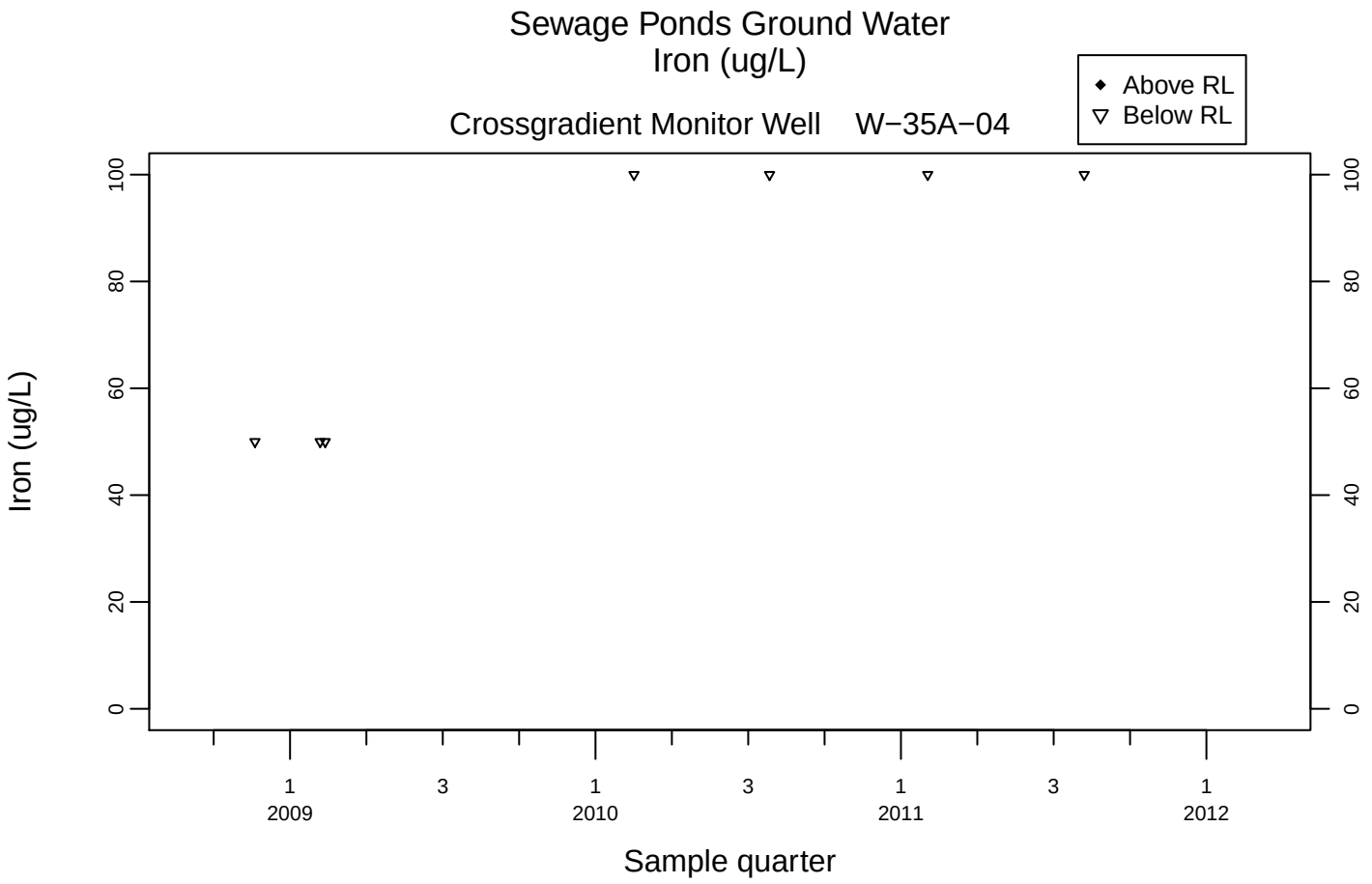

Sewage Ponds Ground Water
Copper (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Copper (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

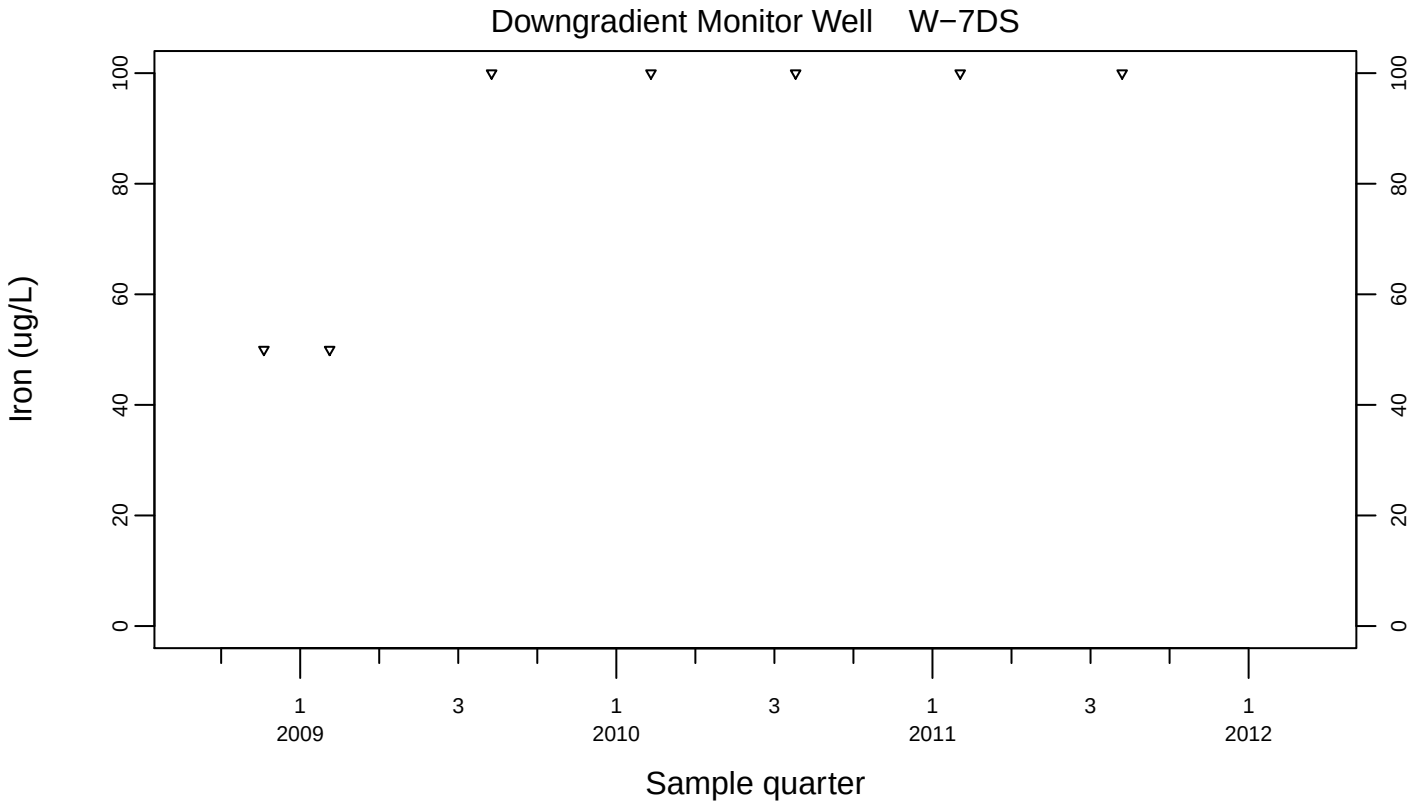

Downgradient Monitor Well W−26R−05
Copper (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

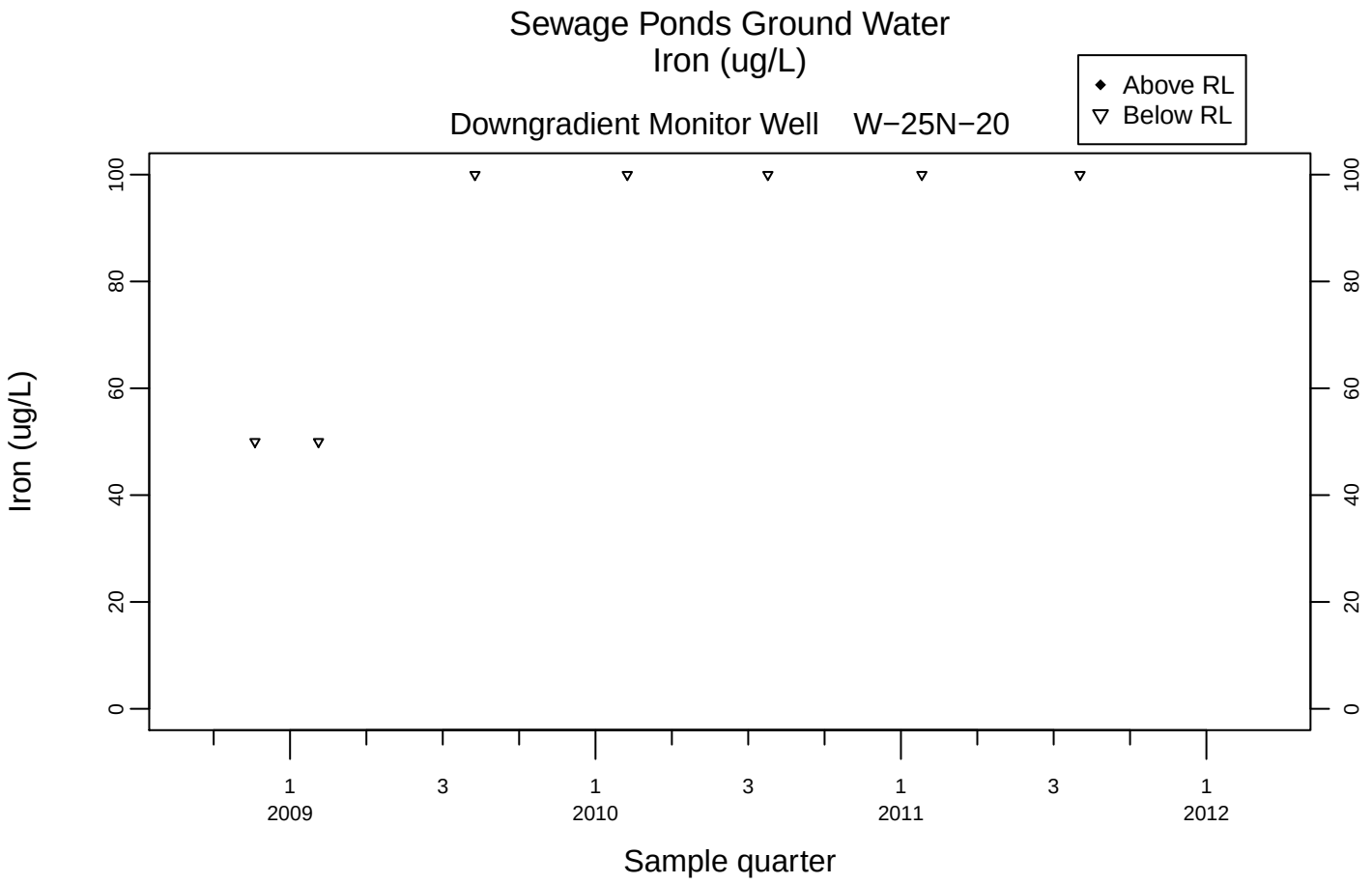

Sewage Ponds Ground Water
Copper (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Estimated
Copper (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

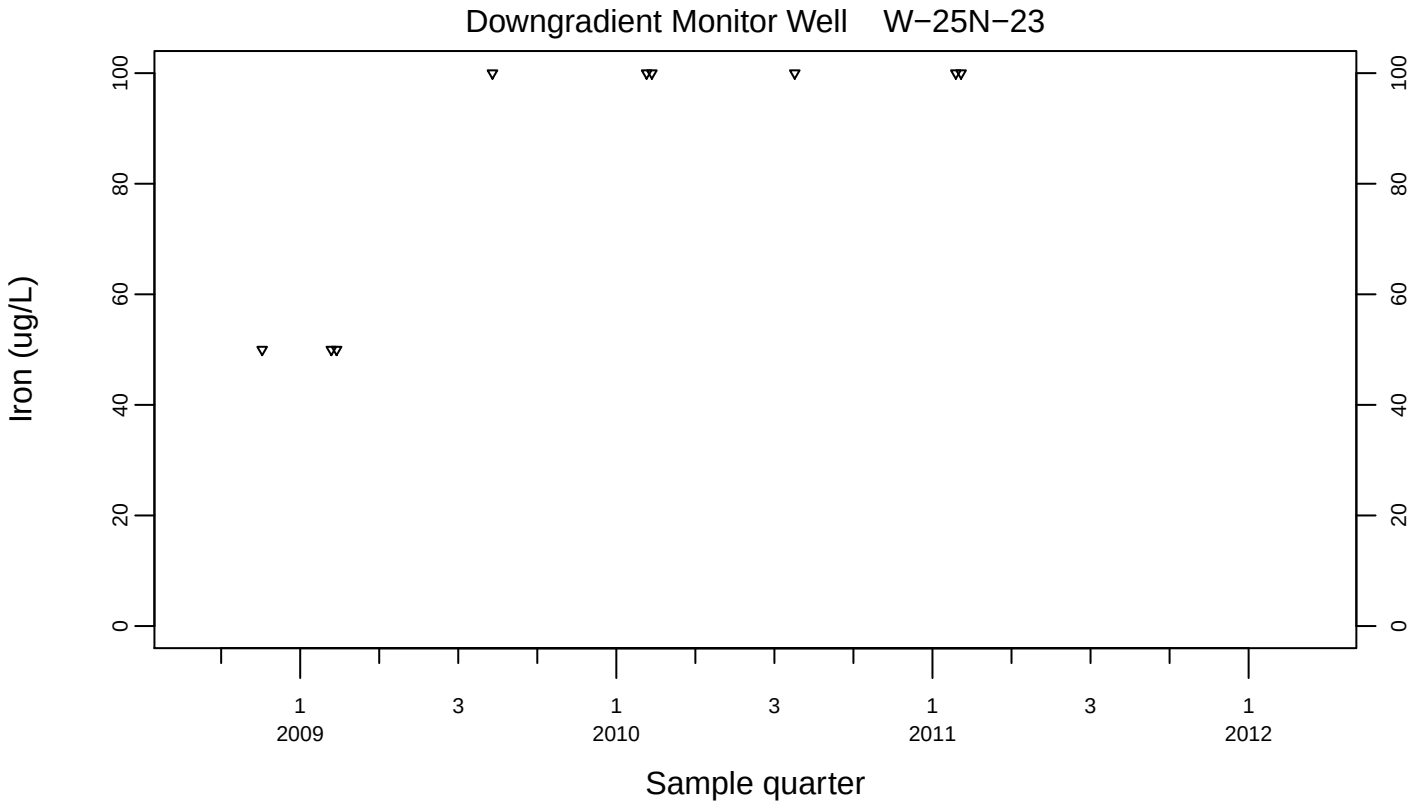

Sewage Ponds Ground Water
Iron (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Iron (ug/L)
0
20
40
60
80
100
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

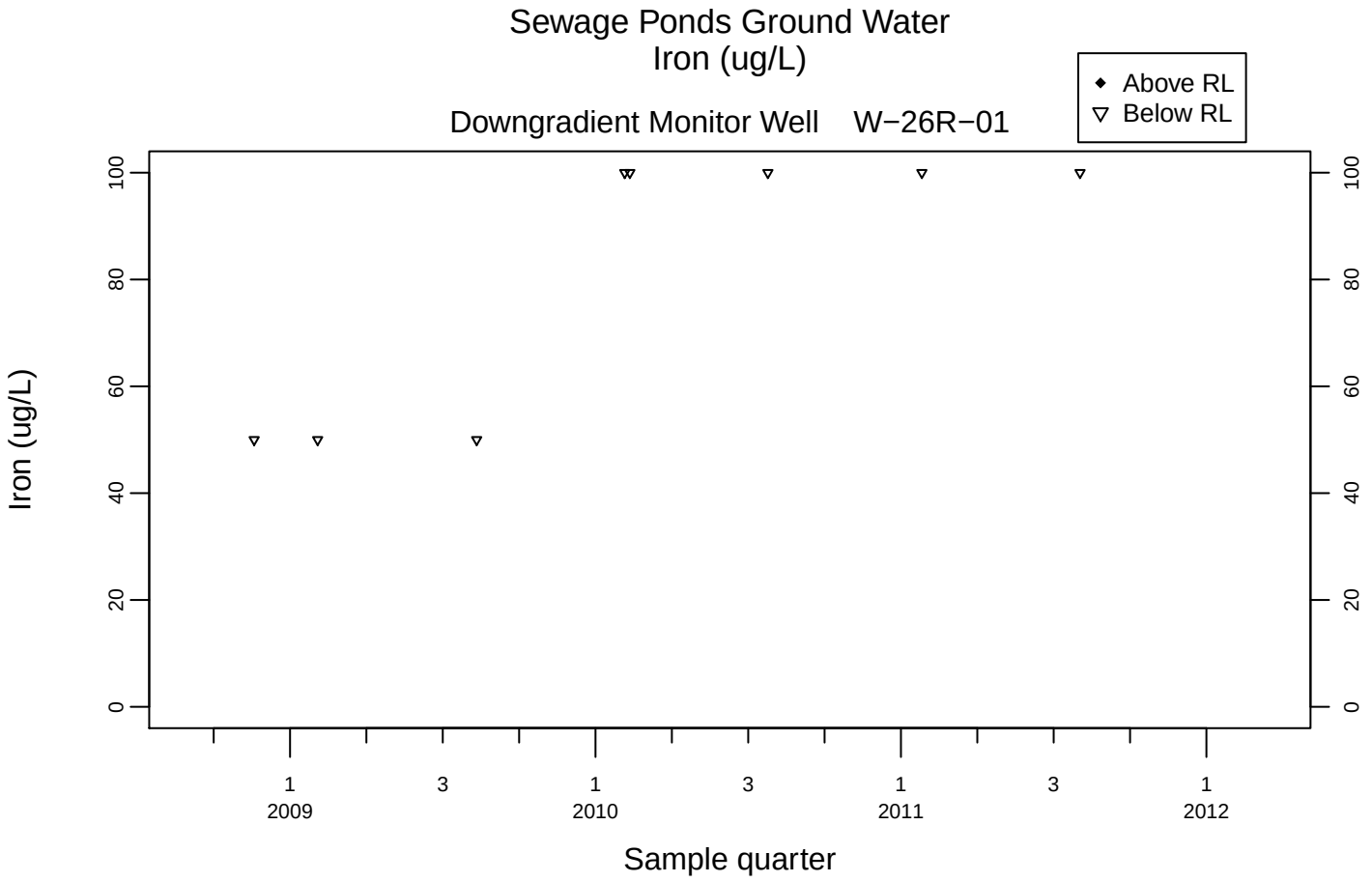

Upgradient Monitor Well W−7PS
Iron (ug/L)
0
20
40
60
80
100
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

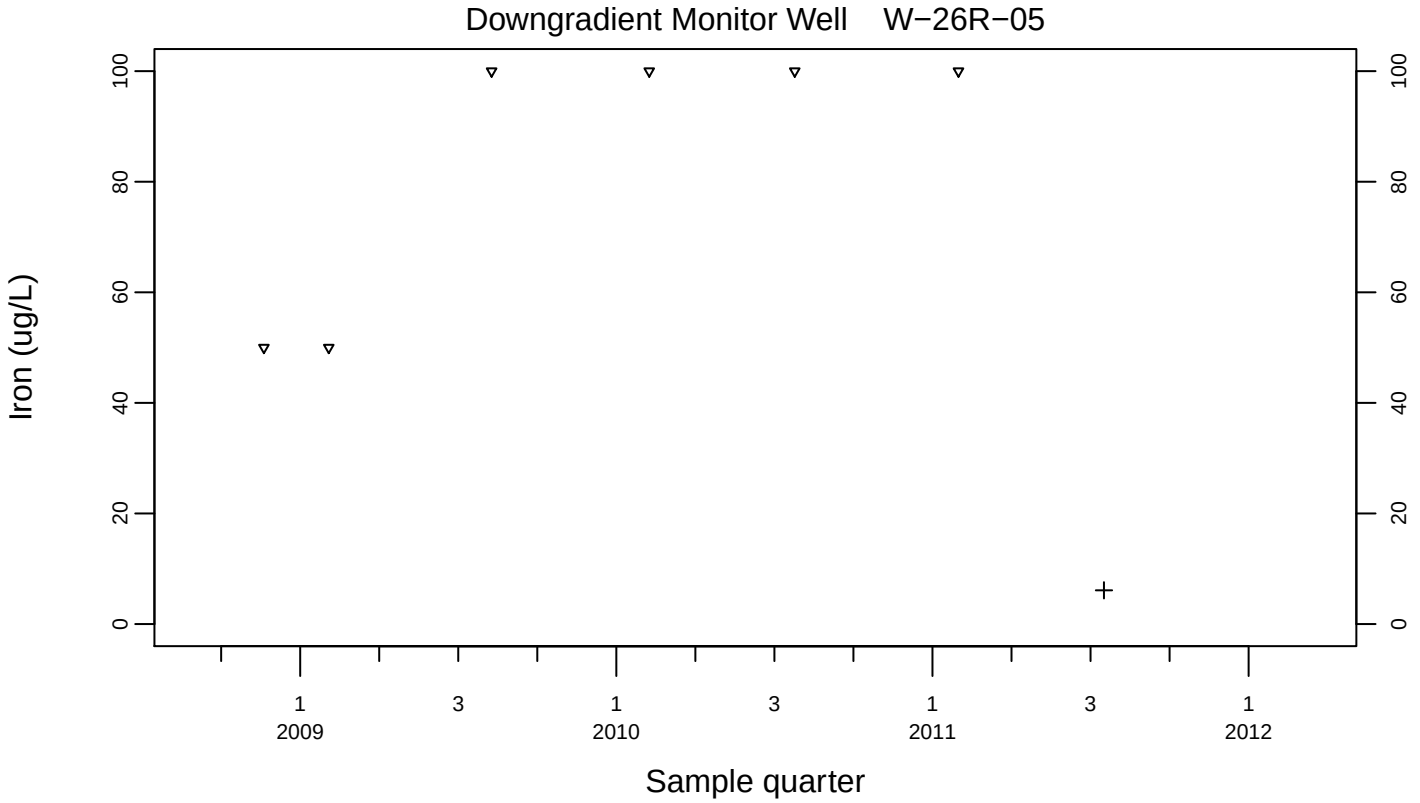

Sewage Ponds Ground Water
Iron (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Iron (ug/L)
0
20
40
60
80
100
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

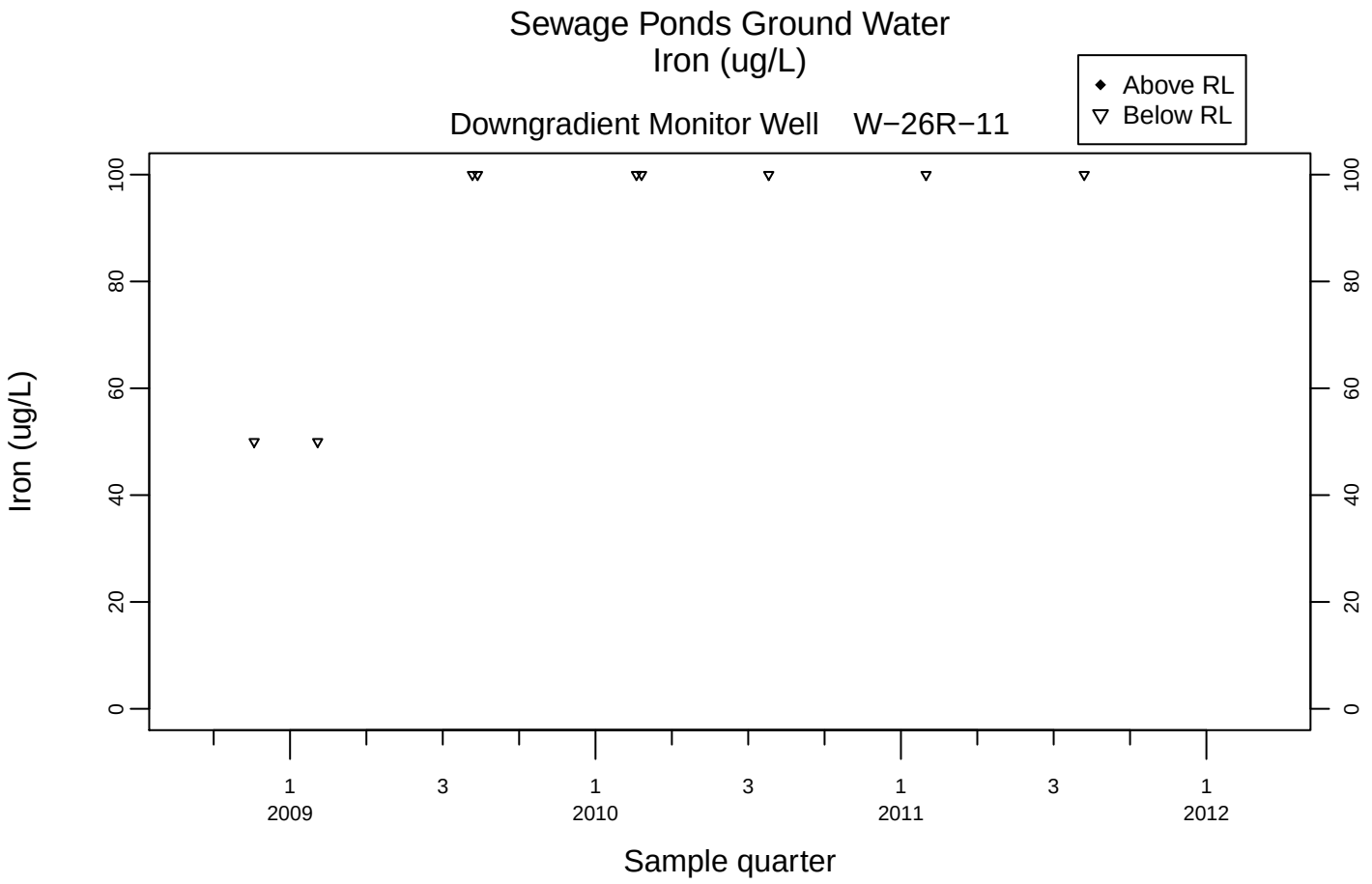

Downgradient Monitor Well W−7DS
Iron (ug/L)
0
20
40
60
80
100
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

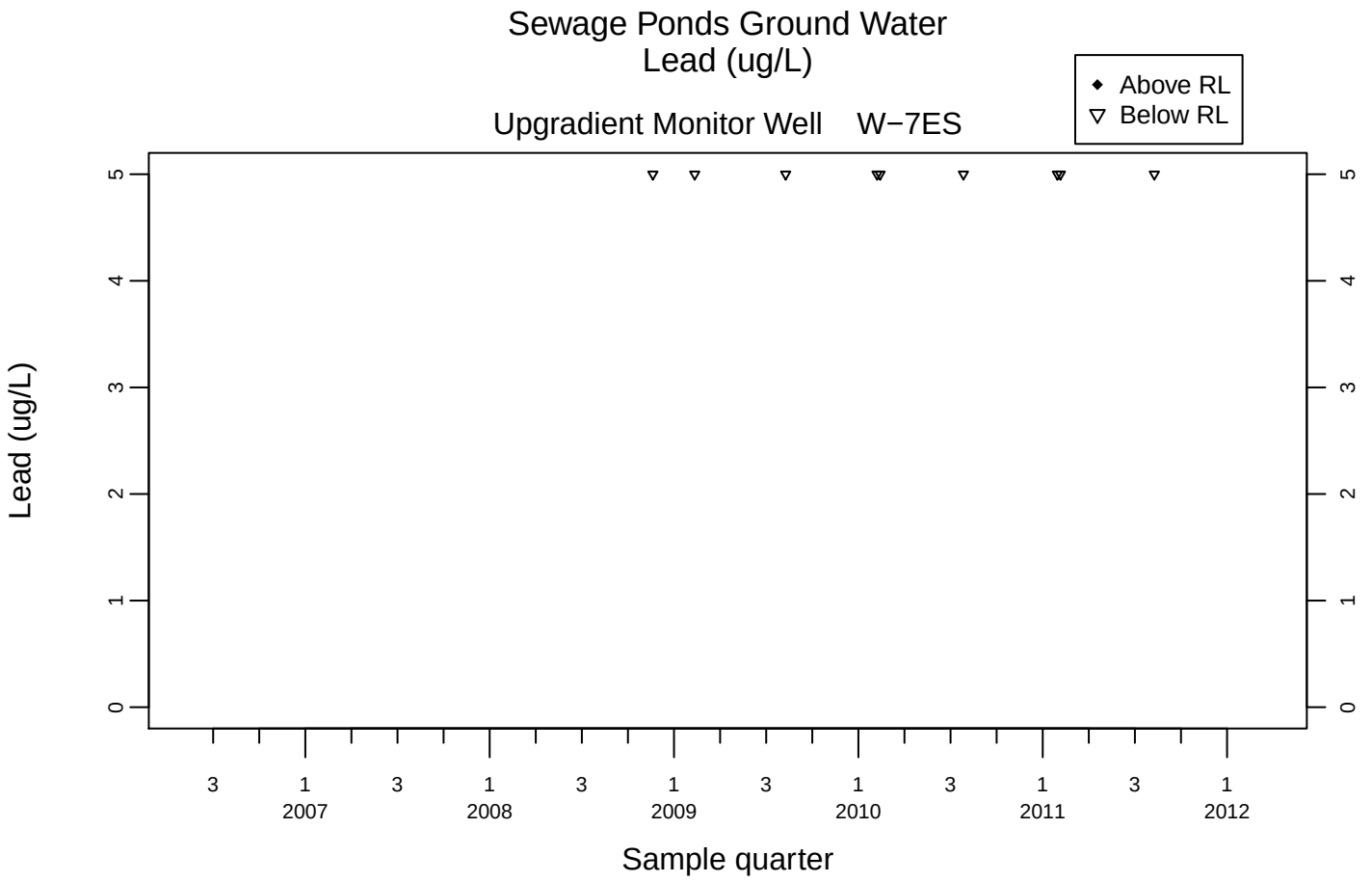

Sewage Ponds Ground Water
Iron (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Iron (ug/L)
0
20
40
60
80
100
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

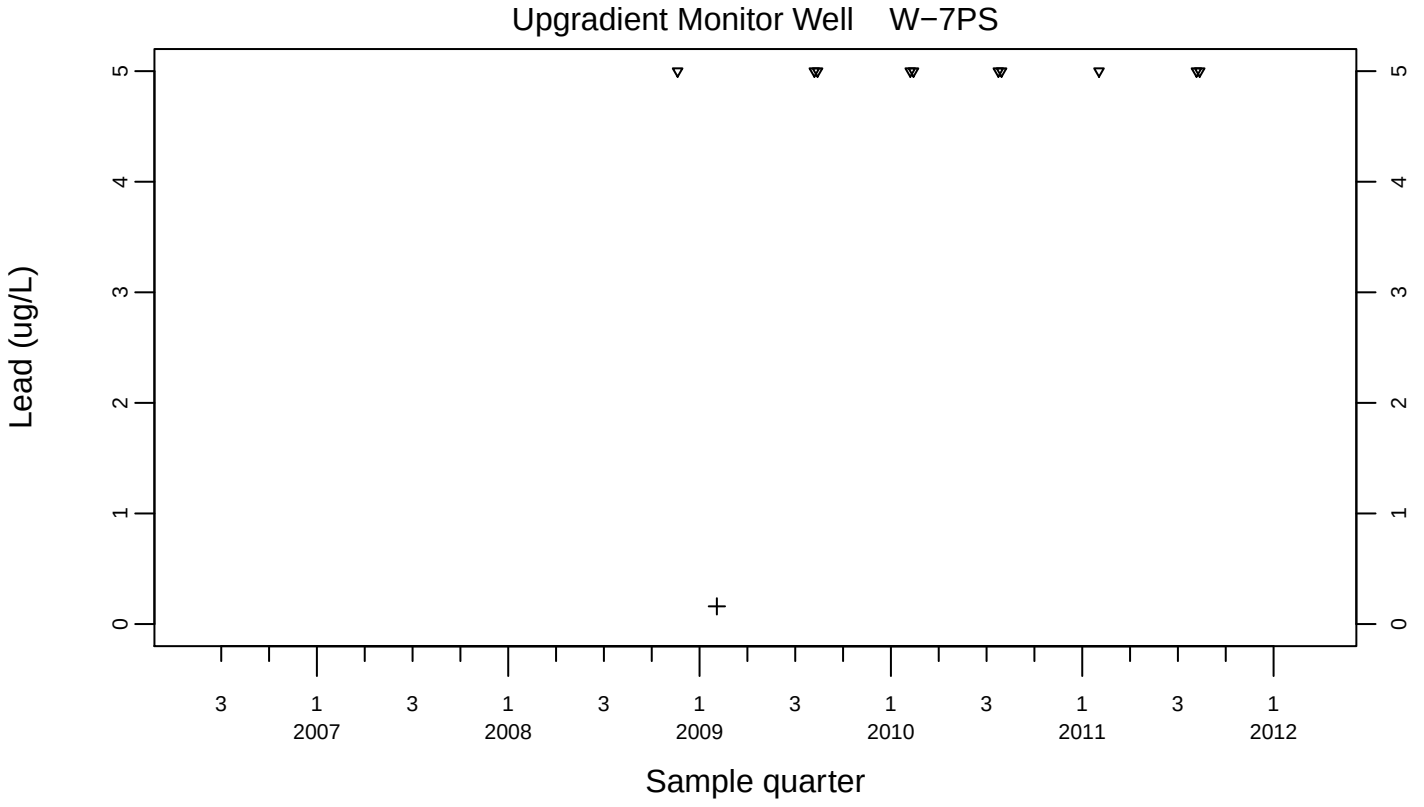

Downgradient Monitor Well W−25N−23
Iron (ug/L)
0
20
40
60
80
100
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

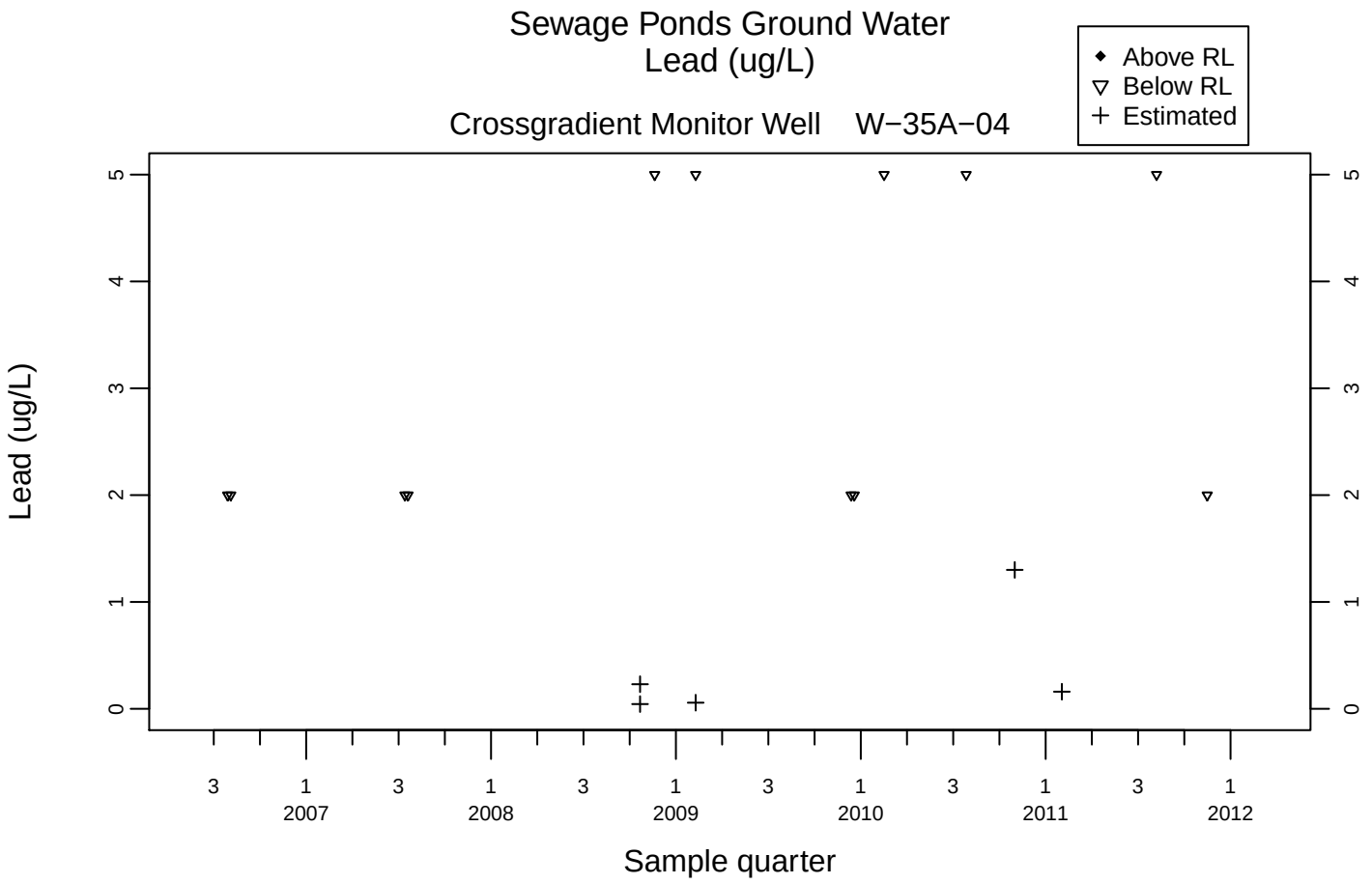

Sewage Ponds Ground Water
Iron (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Iron (ug/L)
0
20
40
60
80
100
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

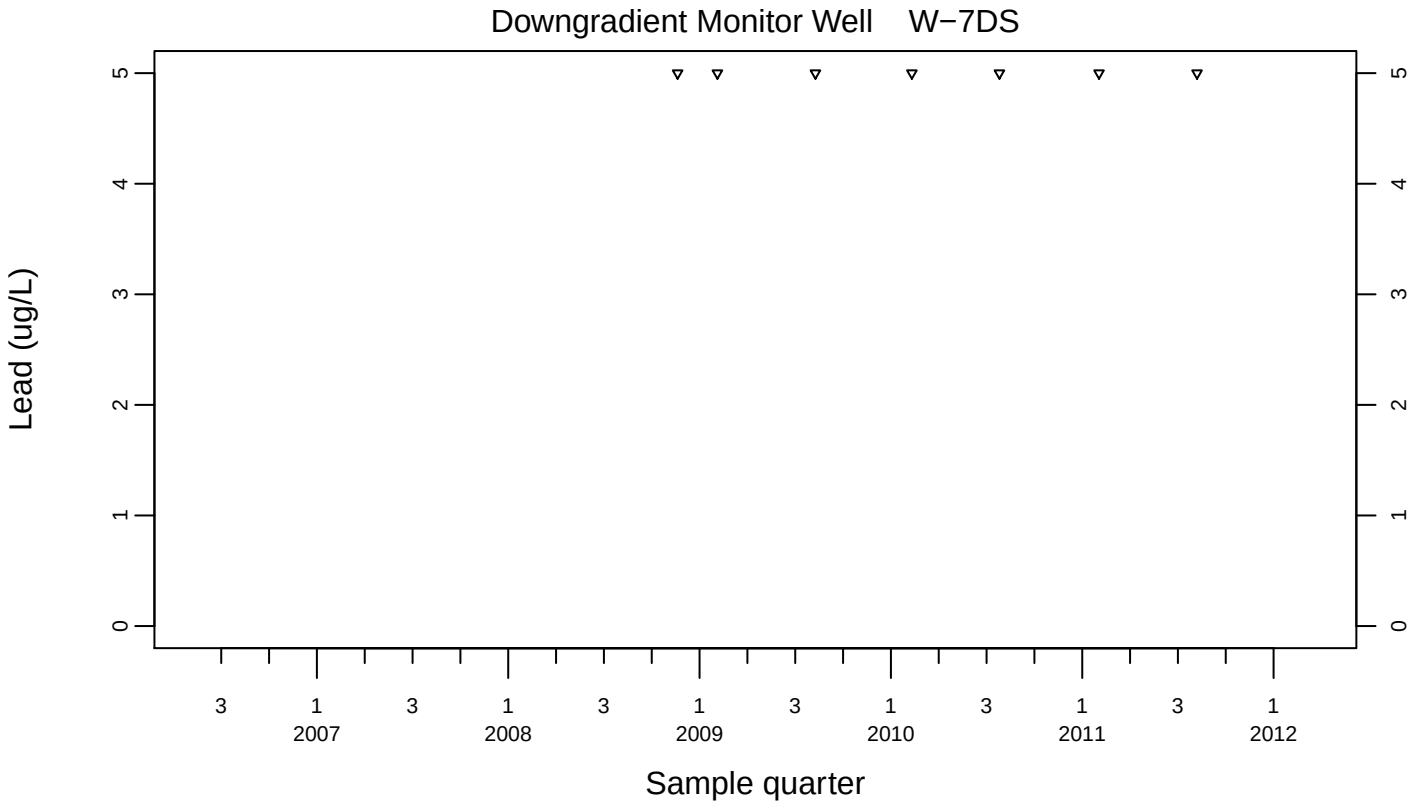

Downgradient Monitor Well W−26R−05
Iron (ug/L)
0
20
40
60
80
100
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

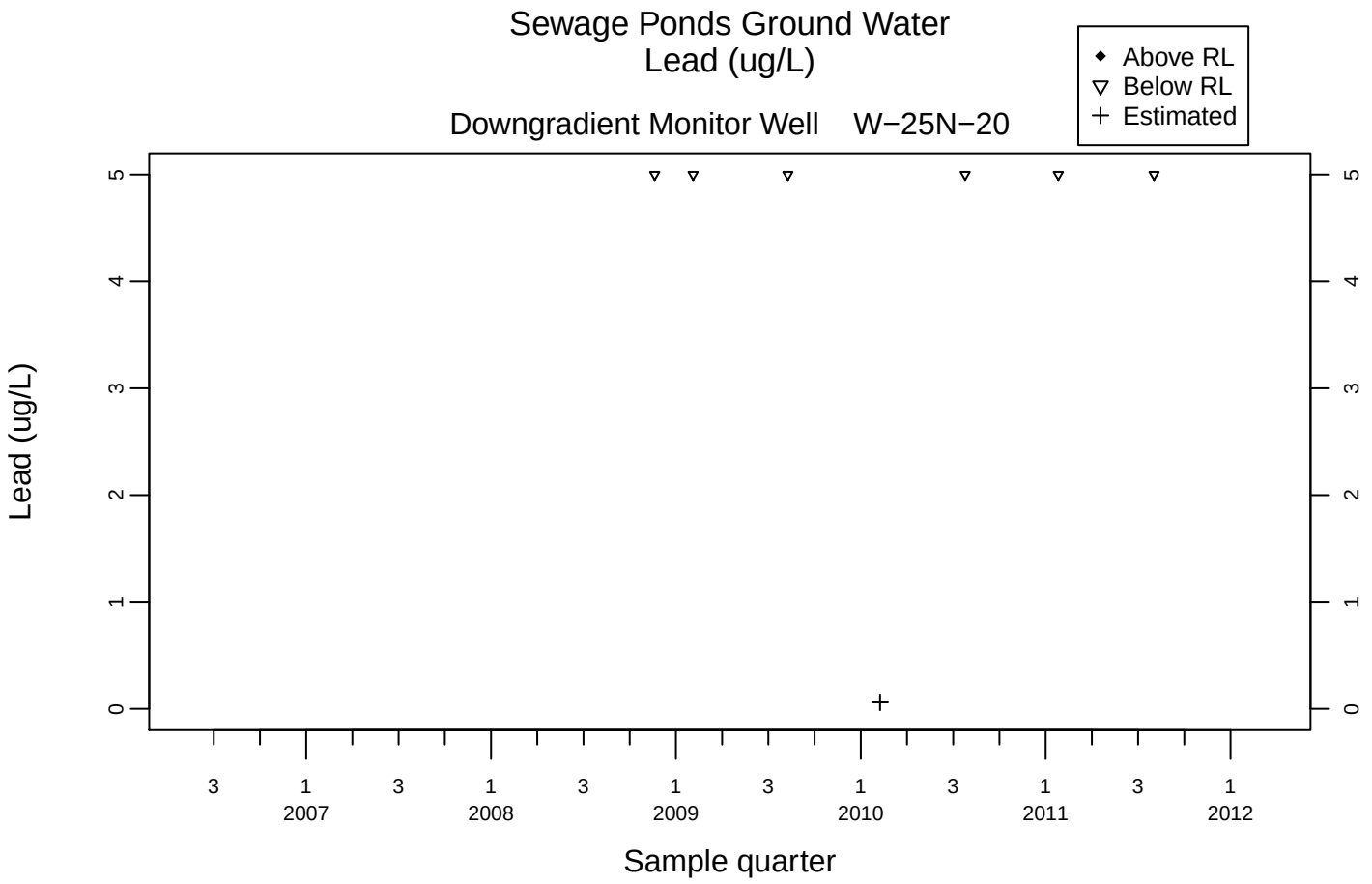

Sewage Ponds Ground Water
Iron (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Iron (ug/L)
0
20
40
60
80
100
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

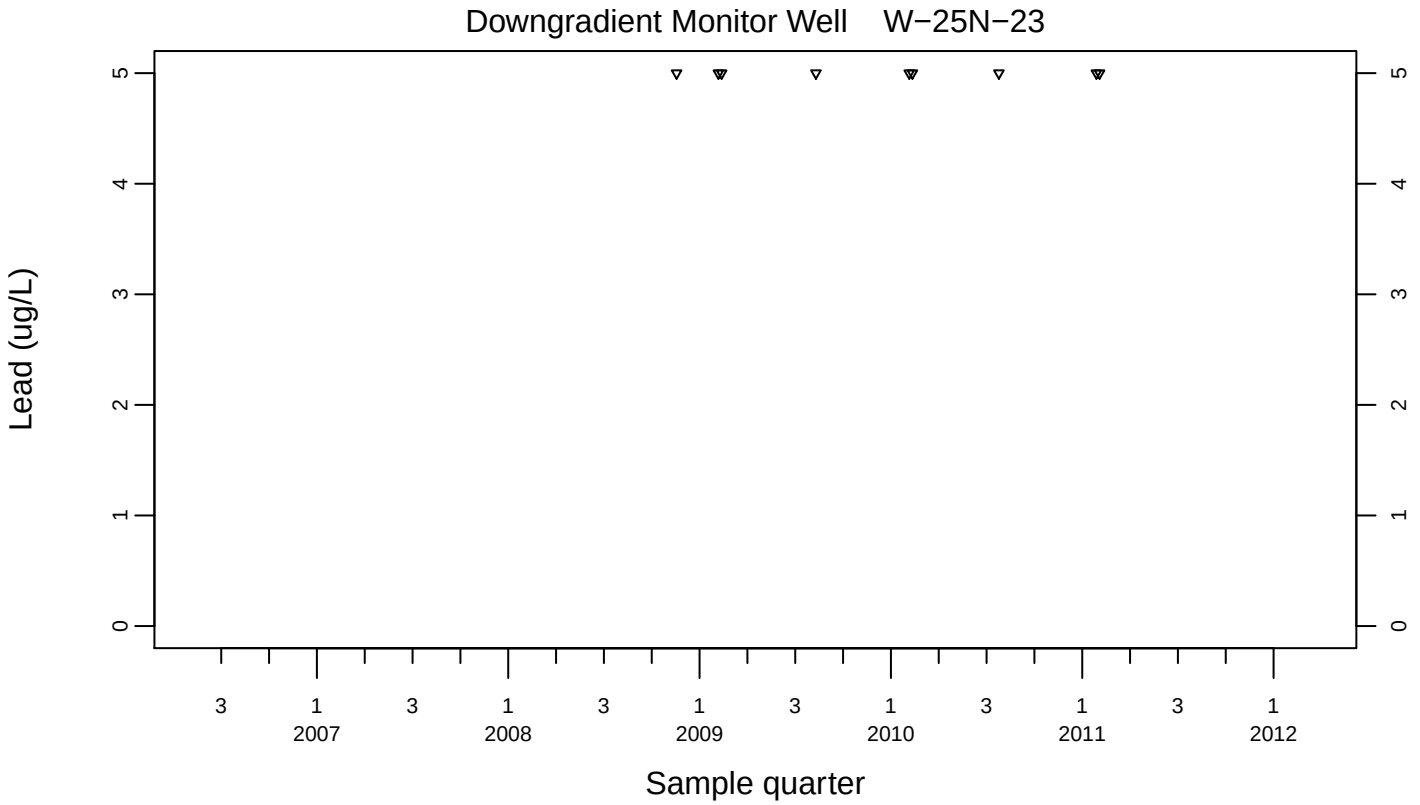

Sewage Ponds Ground Water
Lead (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

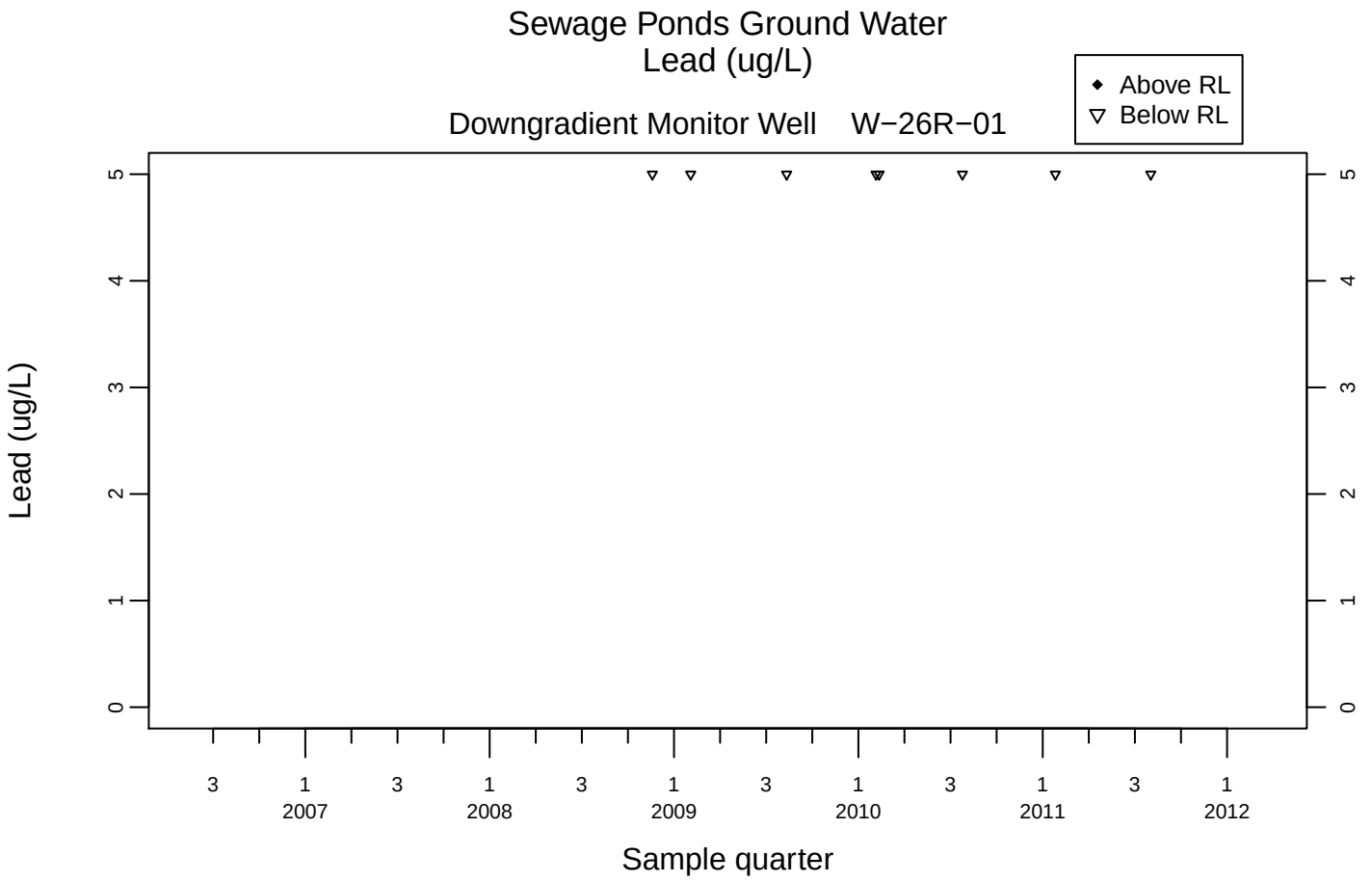

Upgradient Monitor Well W−7PS
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

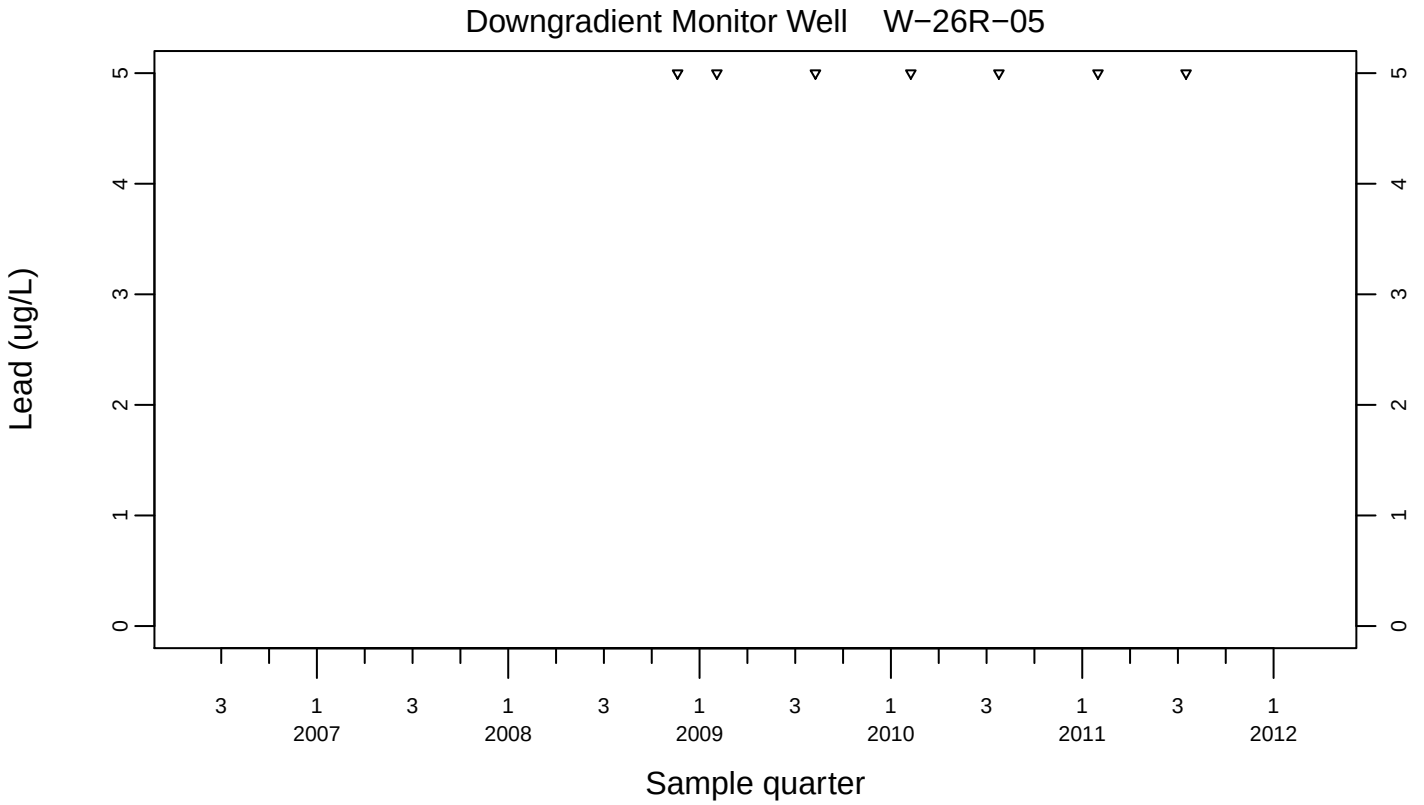

Sewage Ponds Ground Water
Lead (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

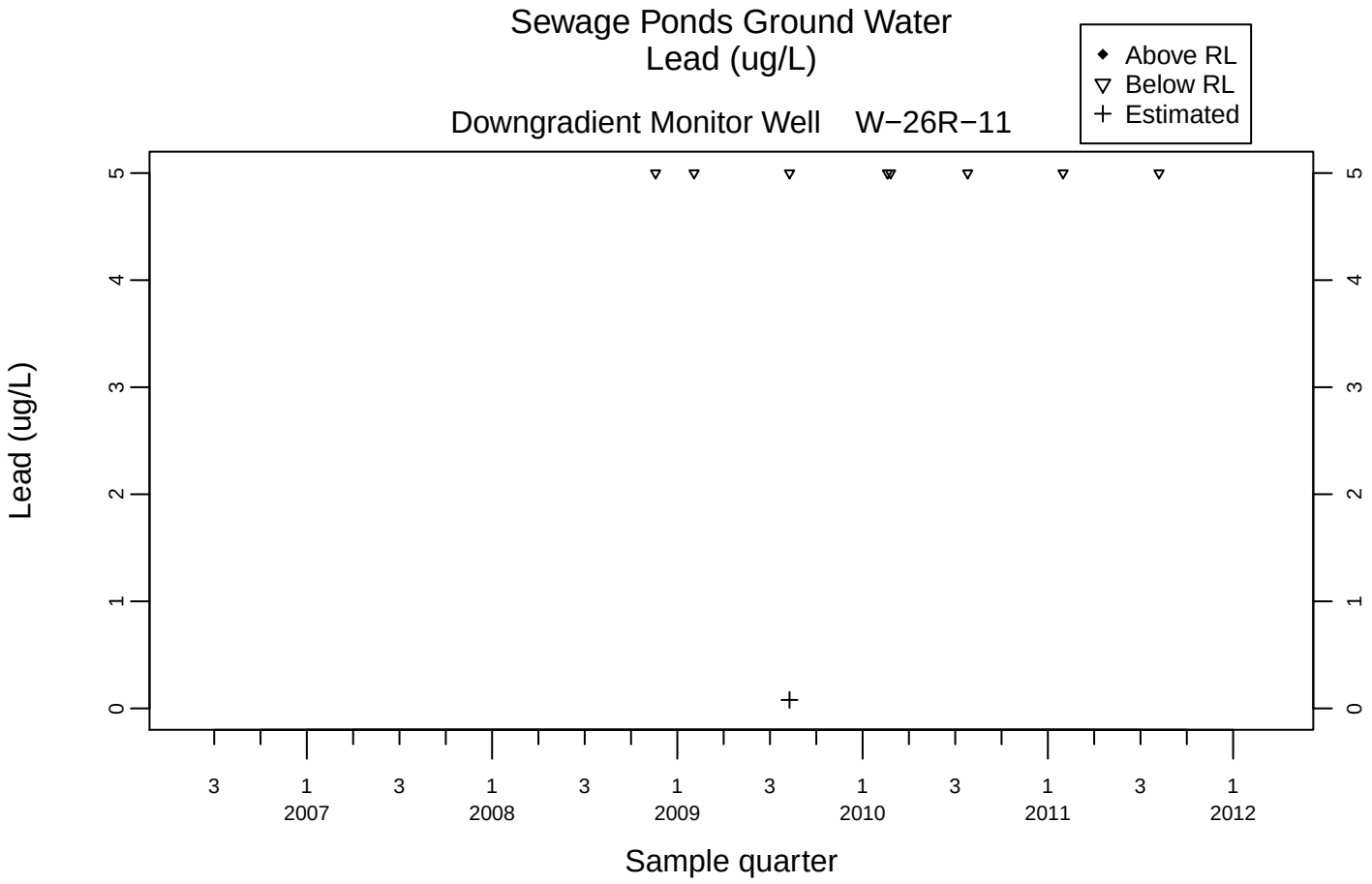

Downgradient Monitor Well W−7DS
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

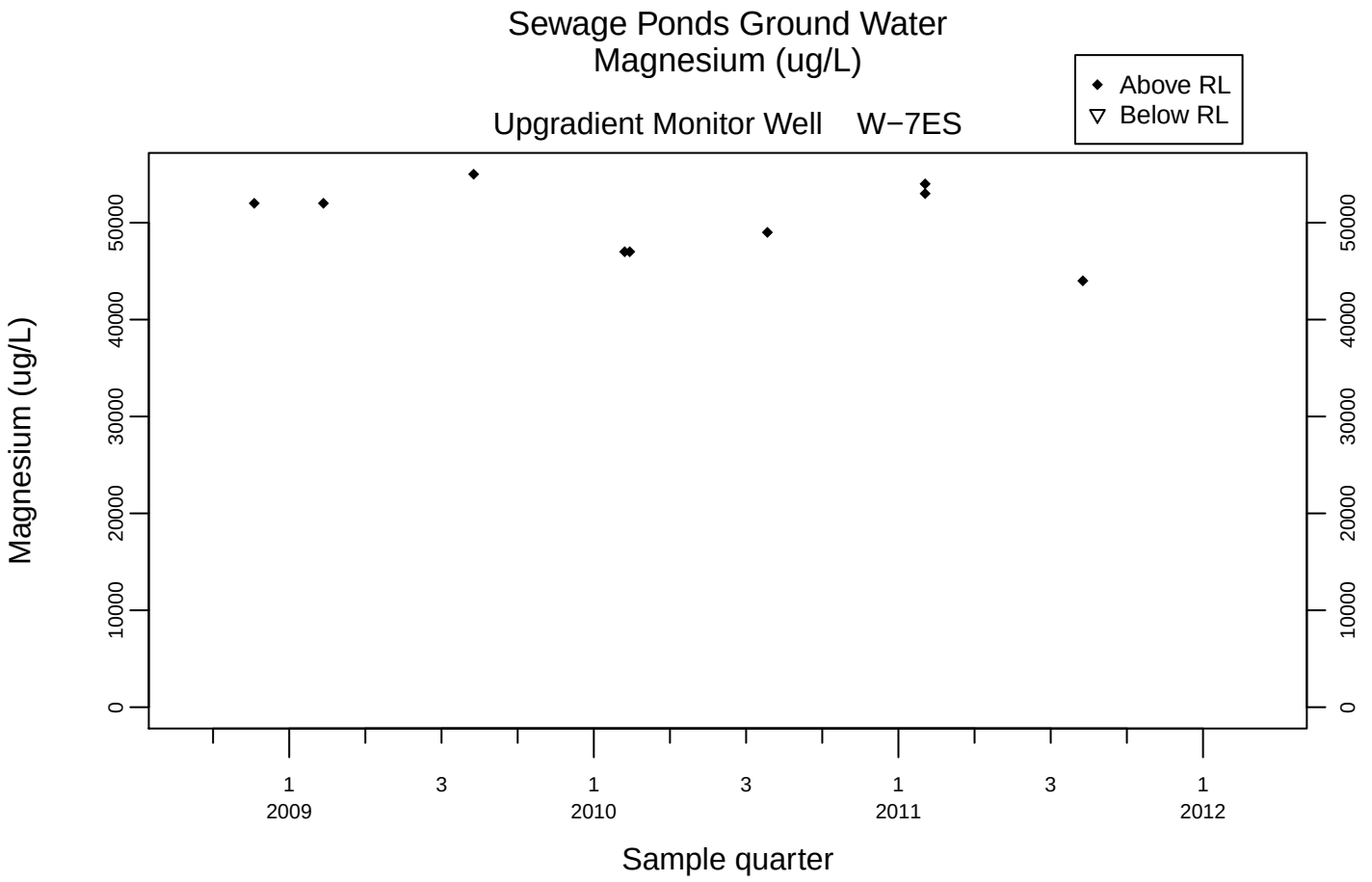

Sewage Ponds Ground Water
Lead (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−25N−20
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

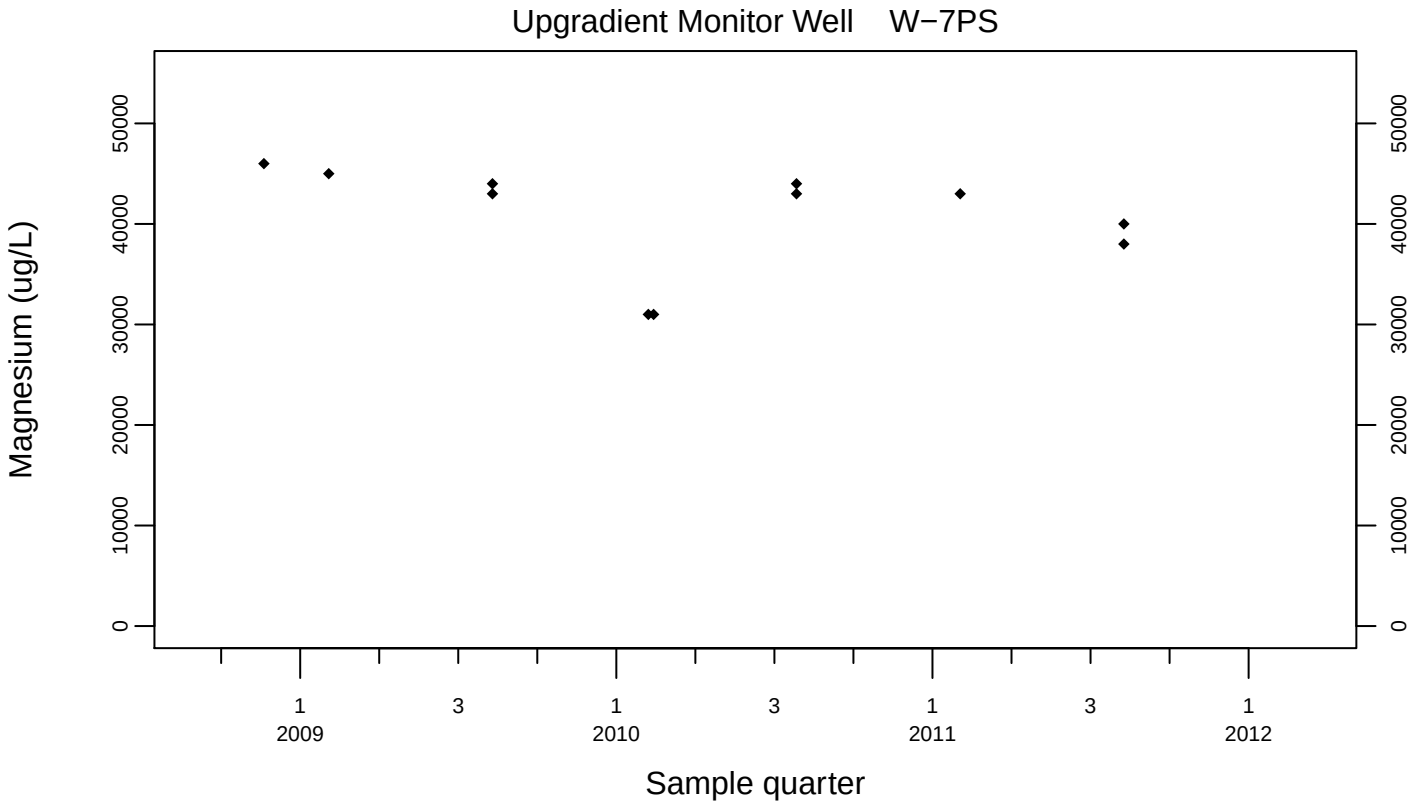

Downgradient Monitor Well W−25N−23
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

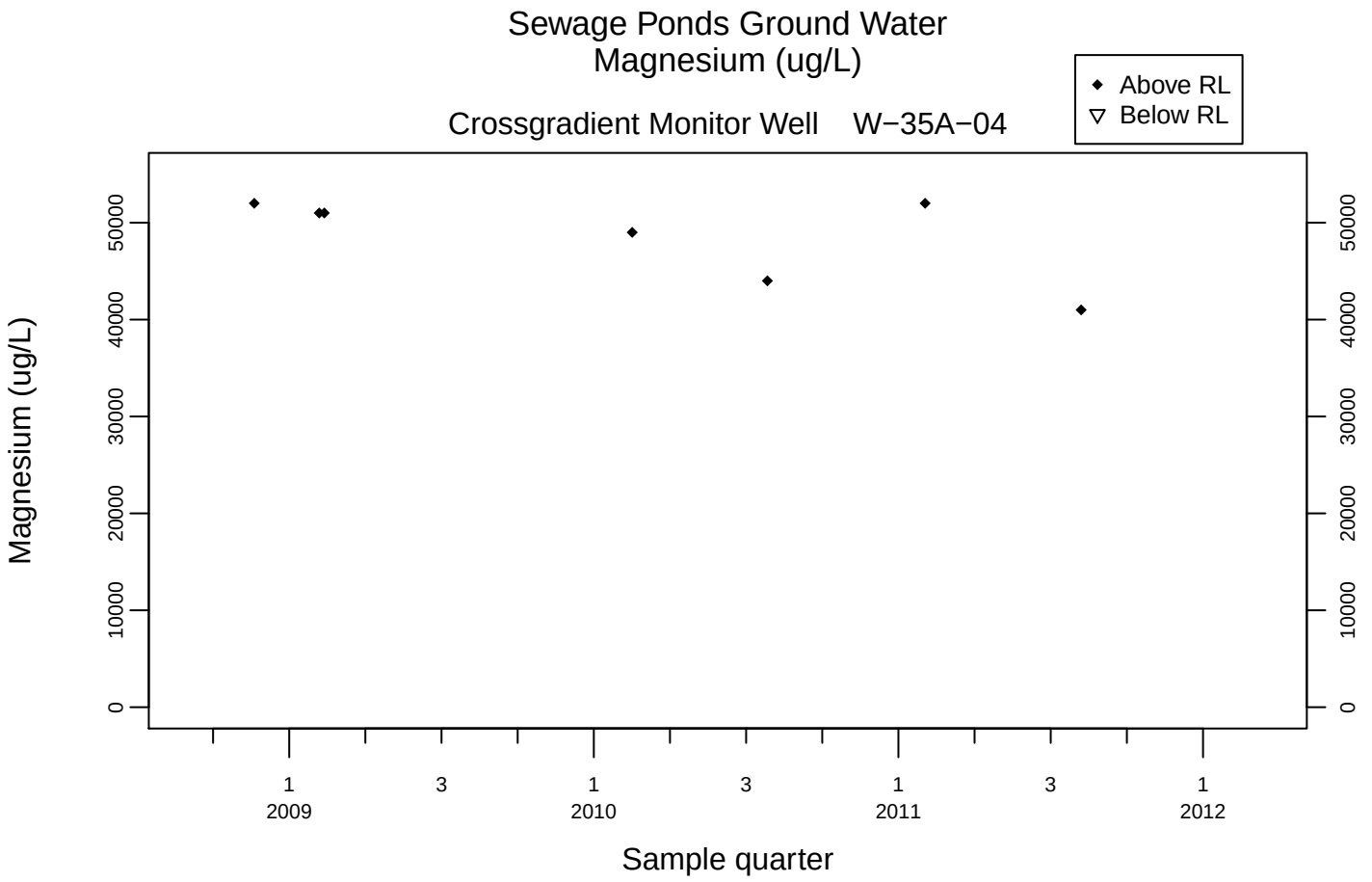

Sewage Ponds Ground Water
Lead (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

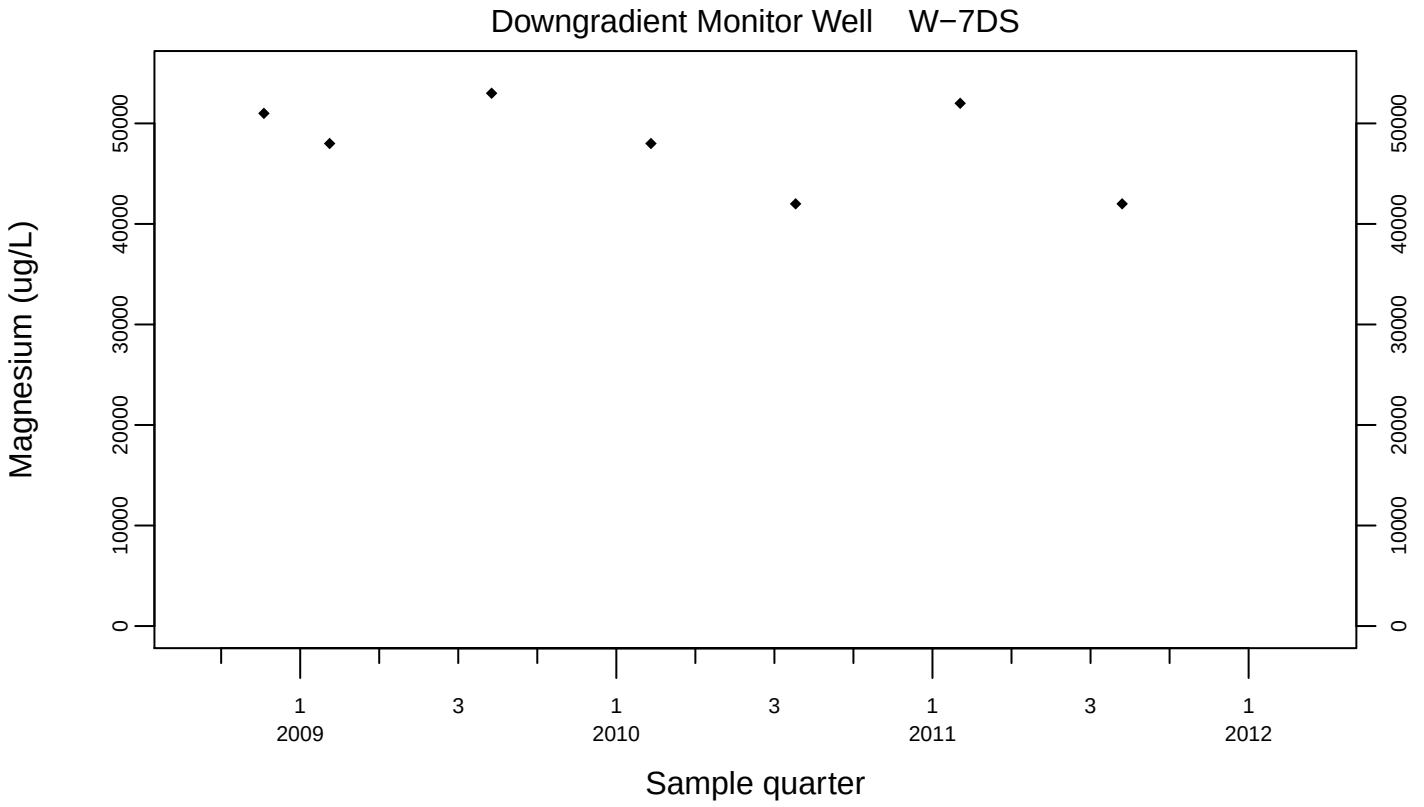

Downgradient Monitor Well W−26R−05
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

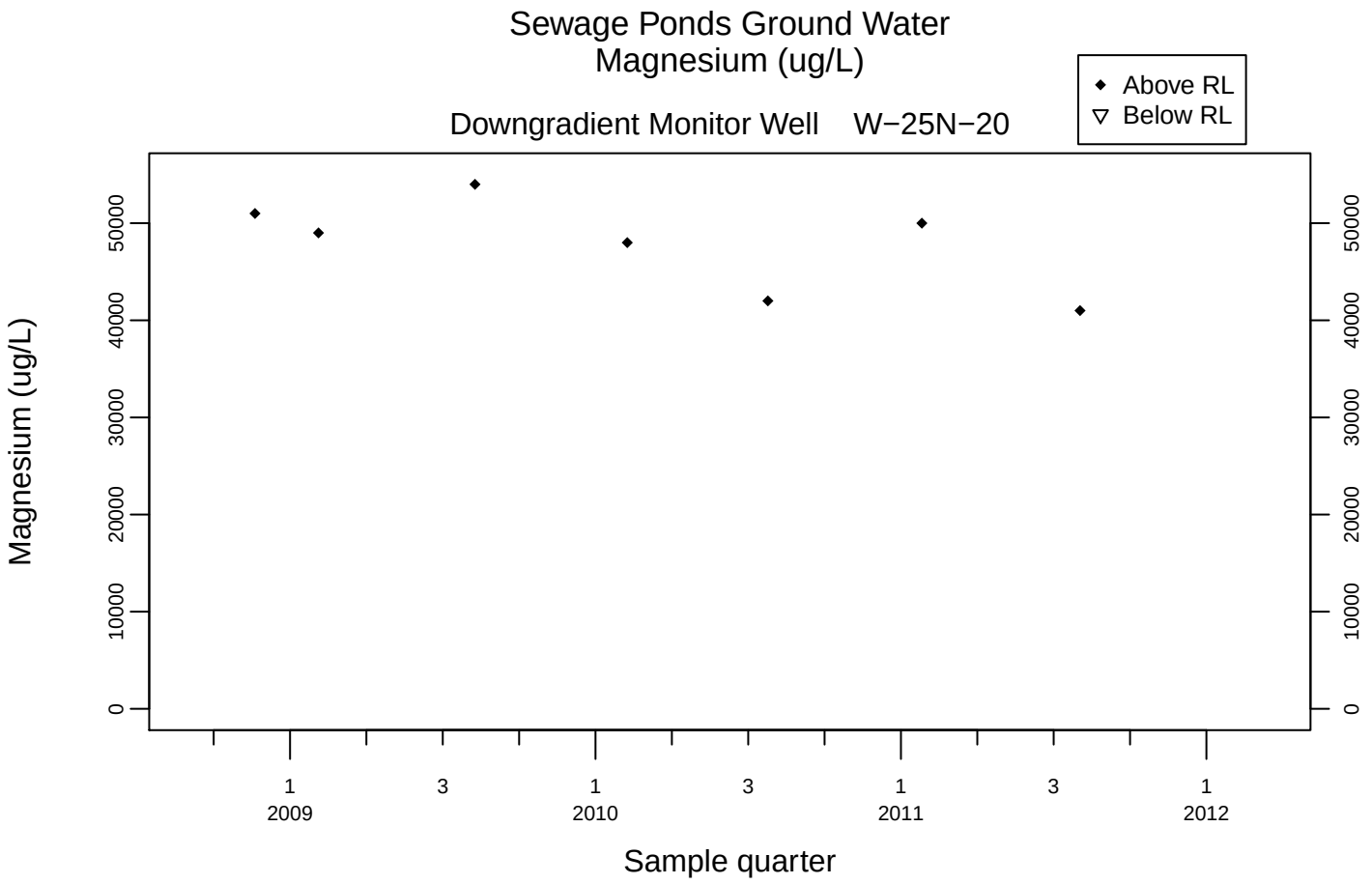

Sewage Ponds Ground Water
Lead (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Estimated
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

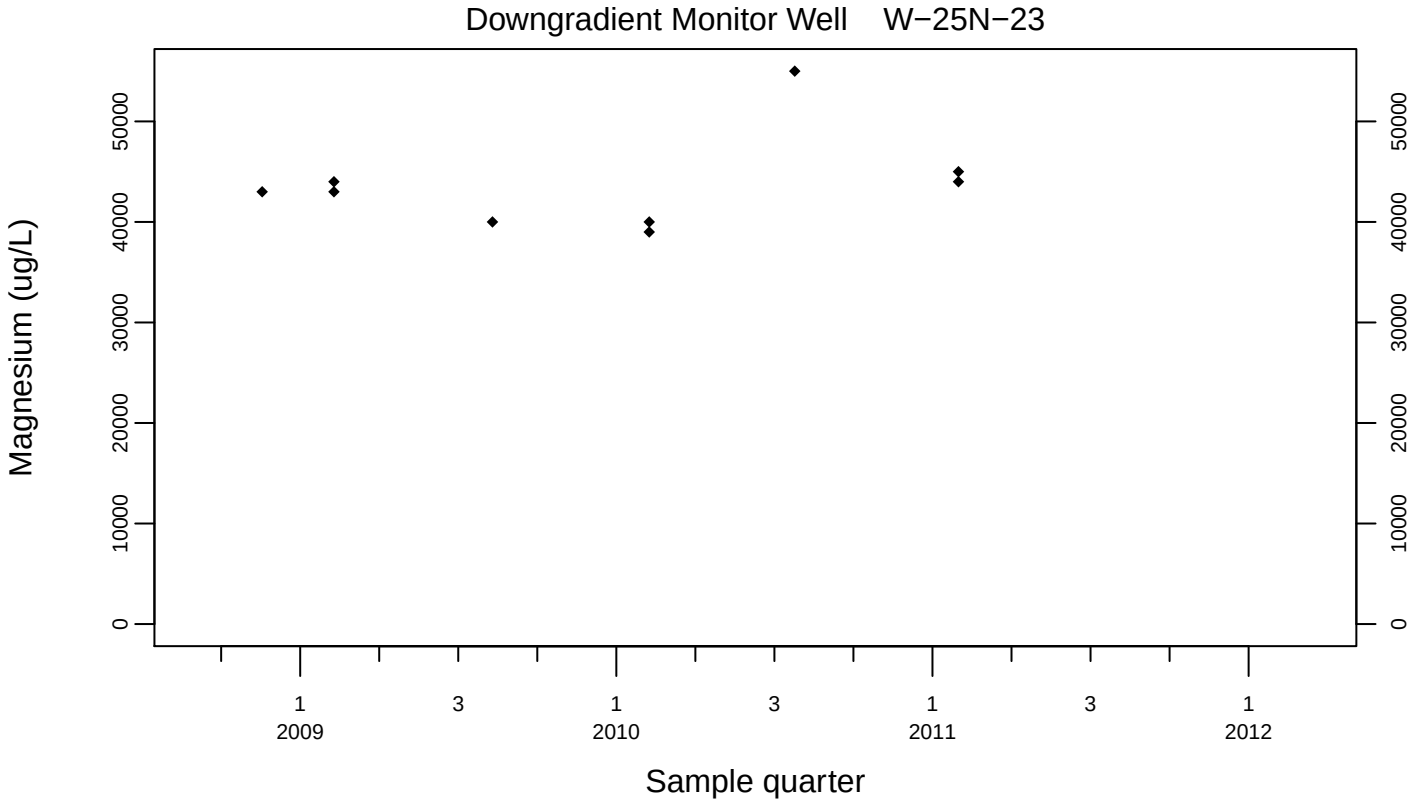

Sewage Ponds Ground Water
Magnesium (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Magnesium (ug/L)
0
10000
20000
30000
40000
50000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

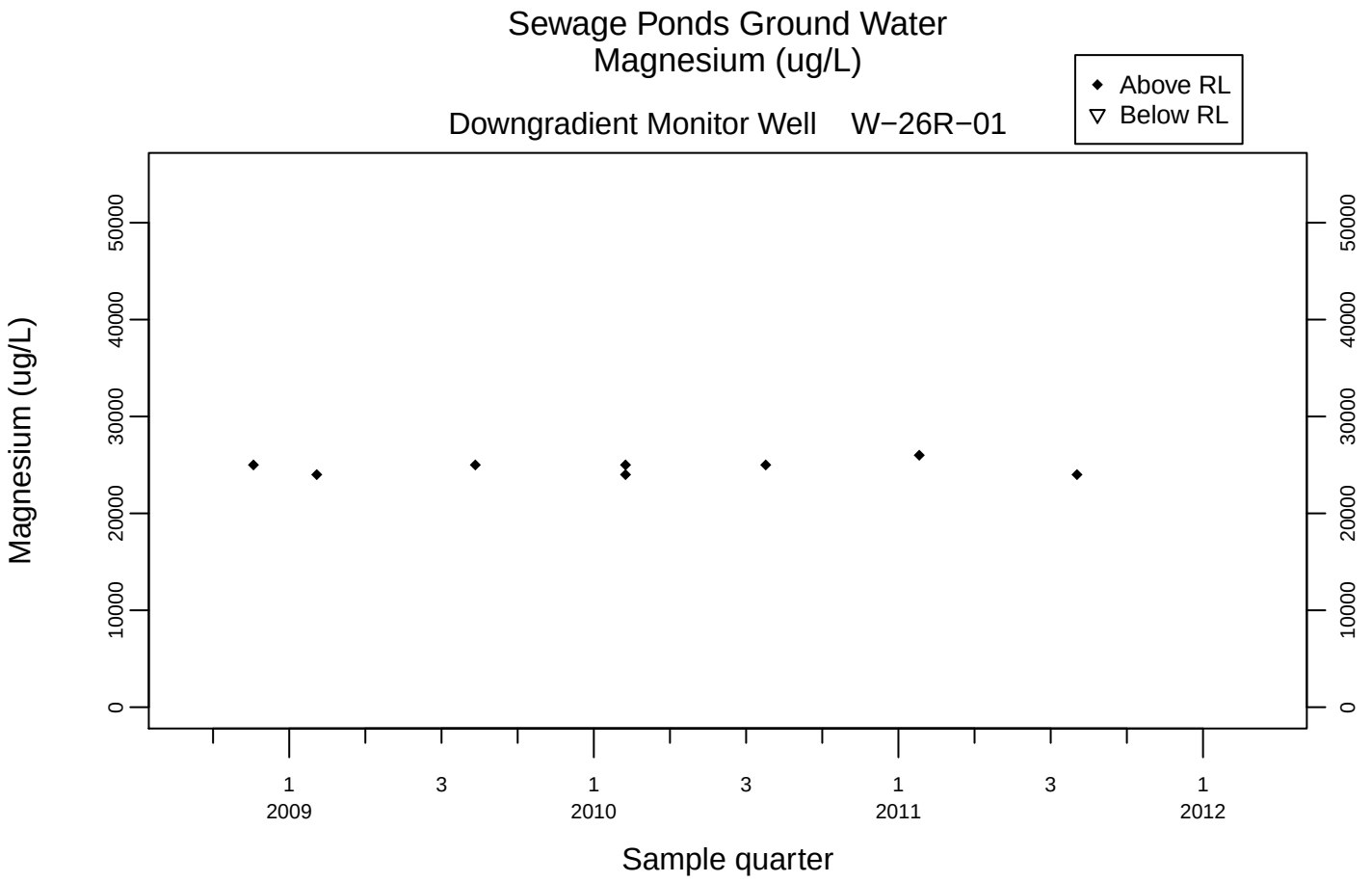

Upgradient Monitor Well W−7PS
Magnesium (ug/L)
0
10000
20000
30000
40000
50000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

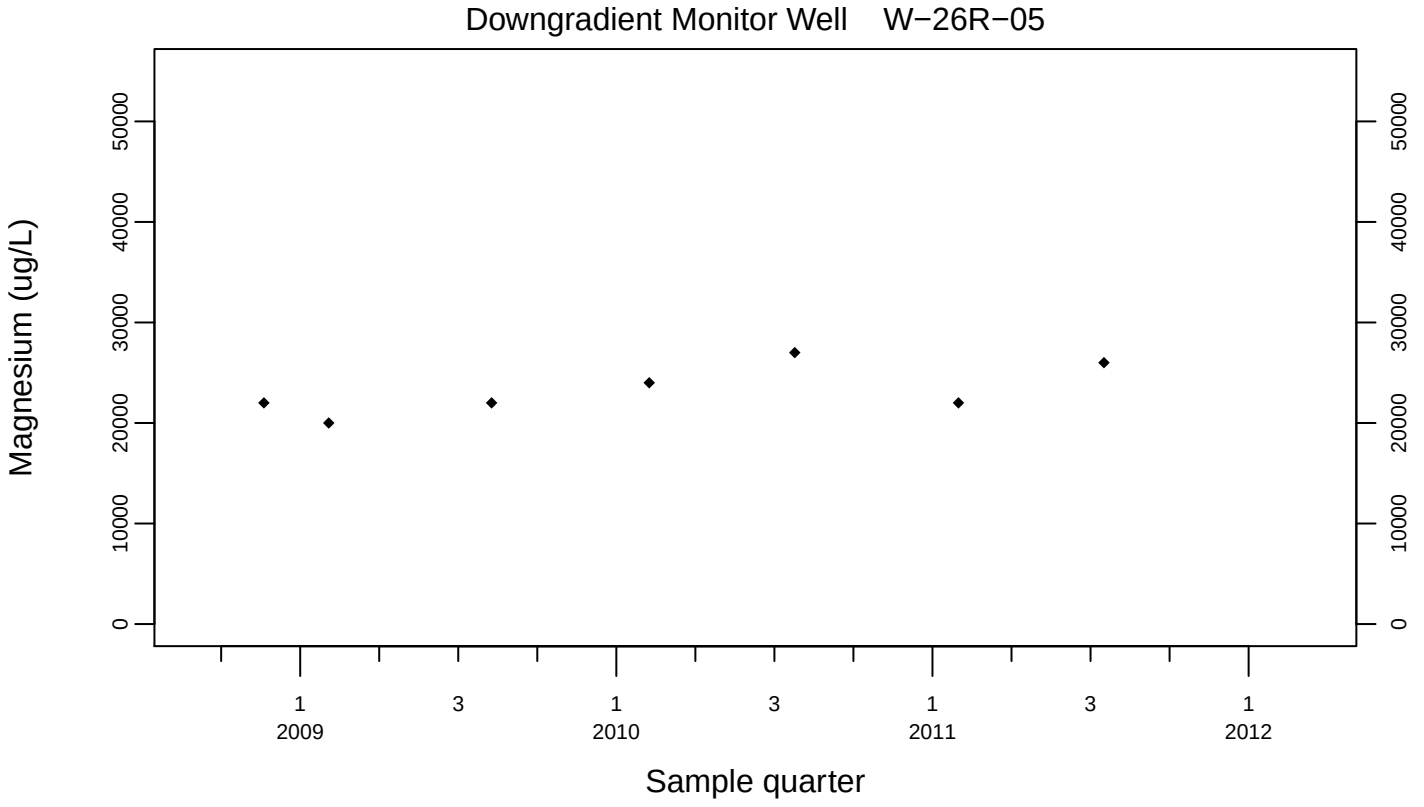

Sewage Ponds Ground Water
Magnesium (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Magnesium (ug/L)
0
10000
20000
30000
40000
50000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

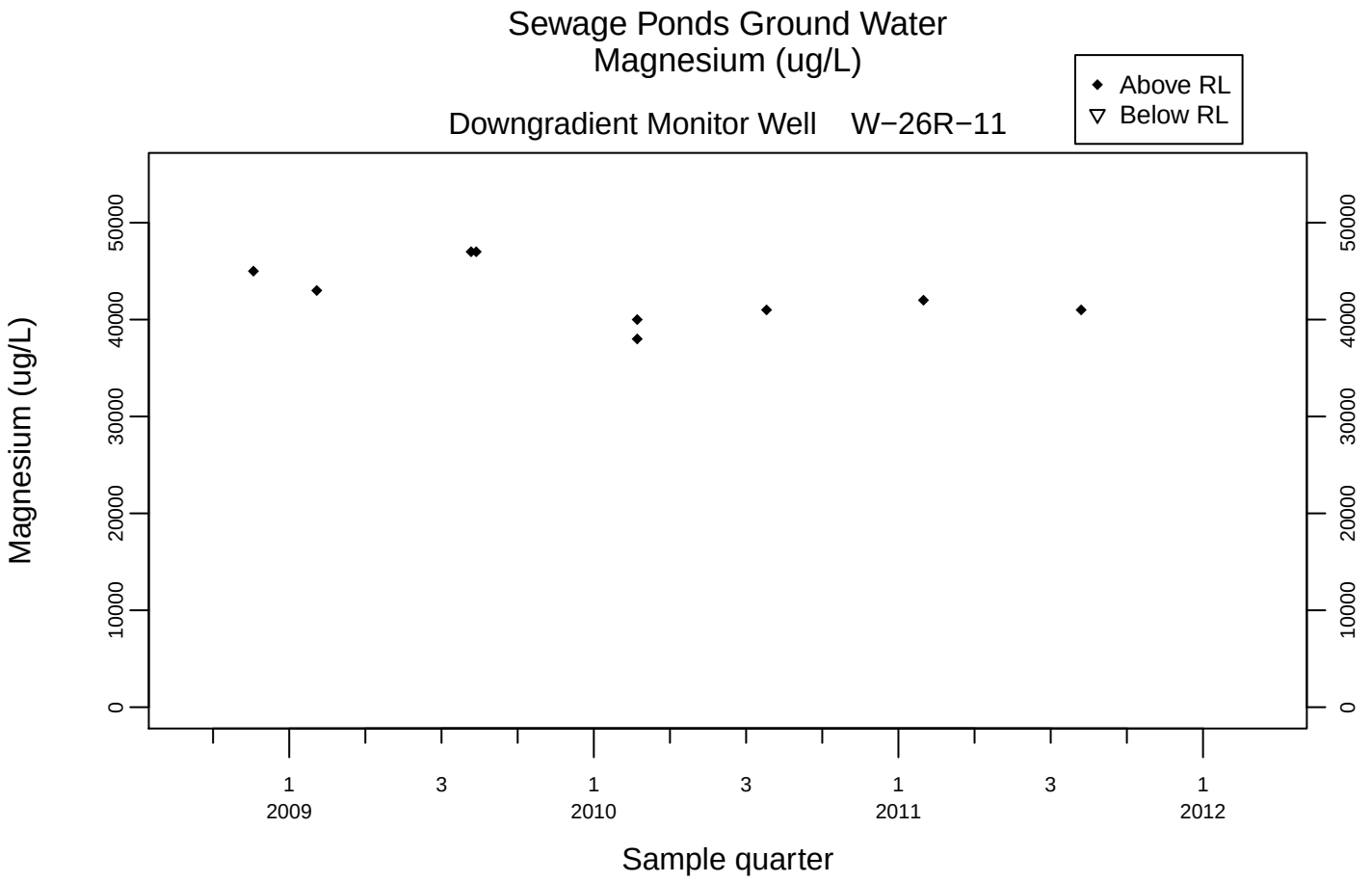

Downgradient Monitor Well W−7DS
Magnesium (ug/L)
0
10000
20000
30000
40000
50000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

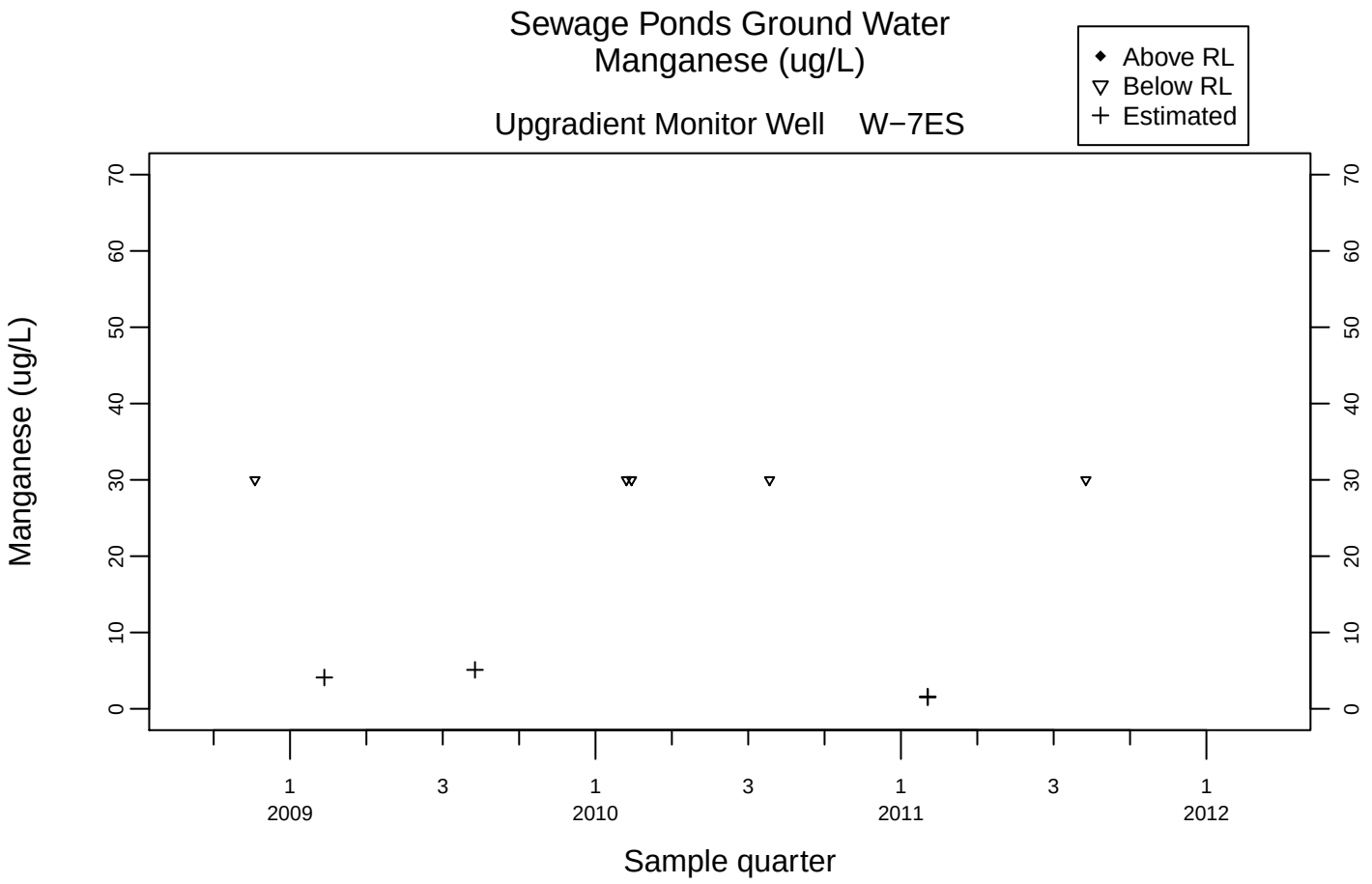

Sewage Ponds Ground Water
Magnesium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Magnesium (ug/L)
0
10000
20000
30000
40000
50000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

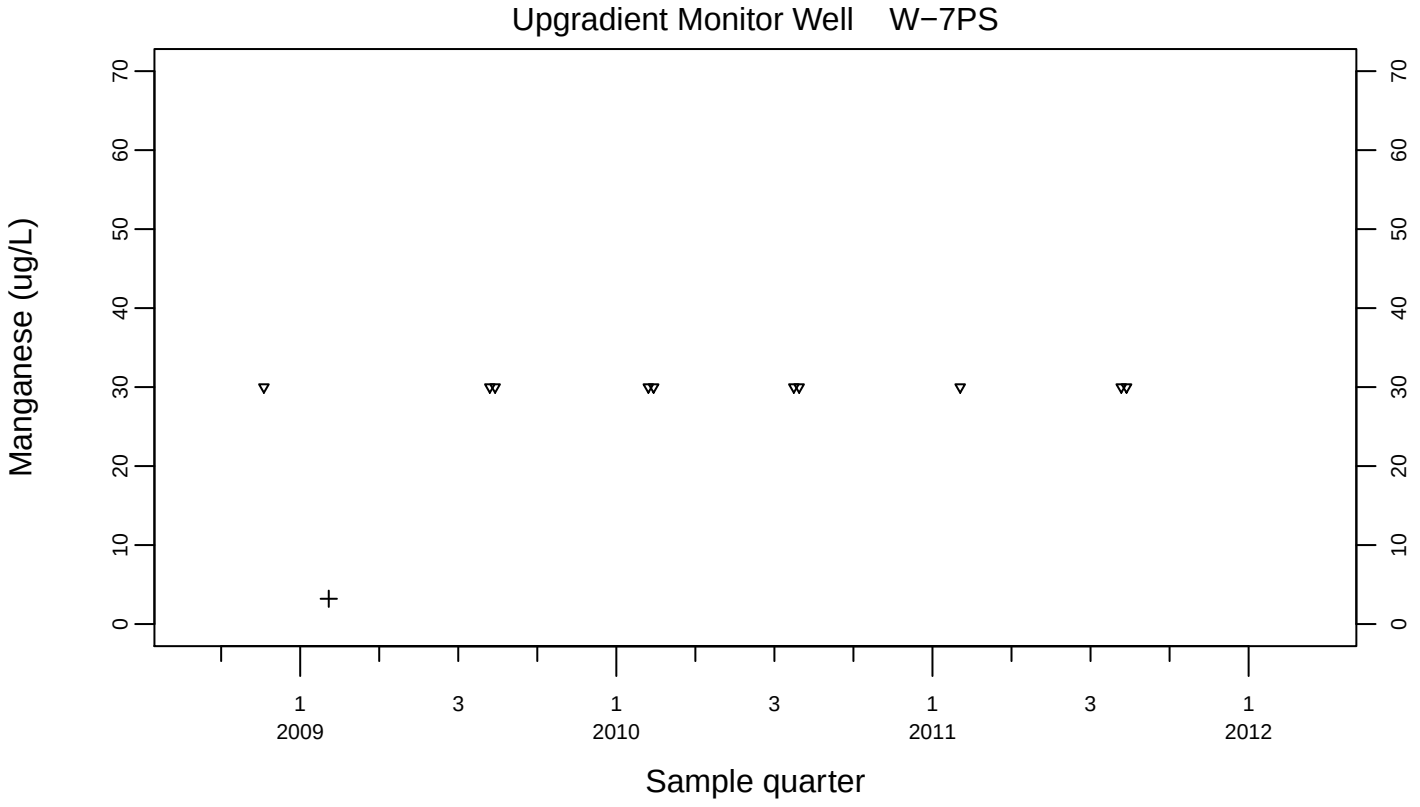

Downgradient Monitor Well W−25N−23
Magnesium (ug/L)
0
10000
20000
30000
40000
50000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

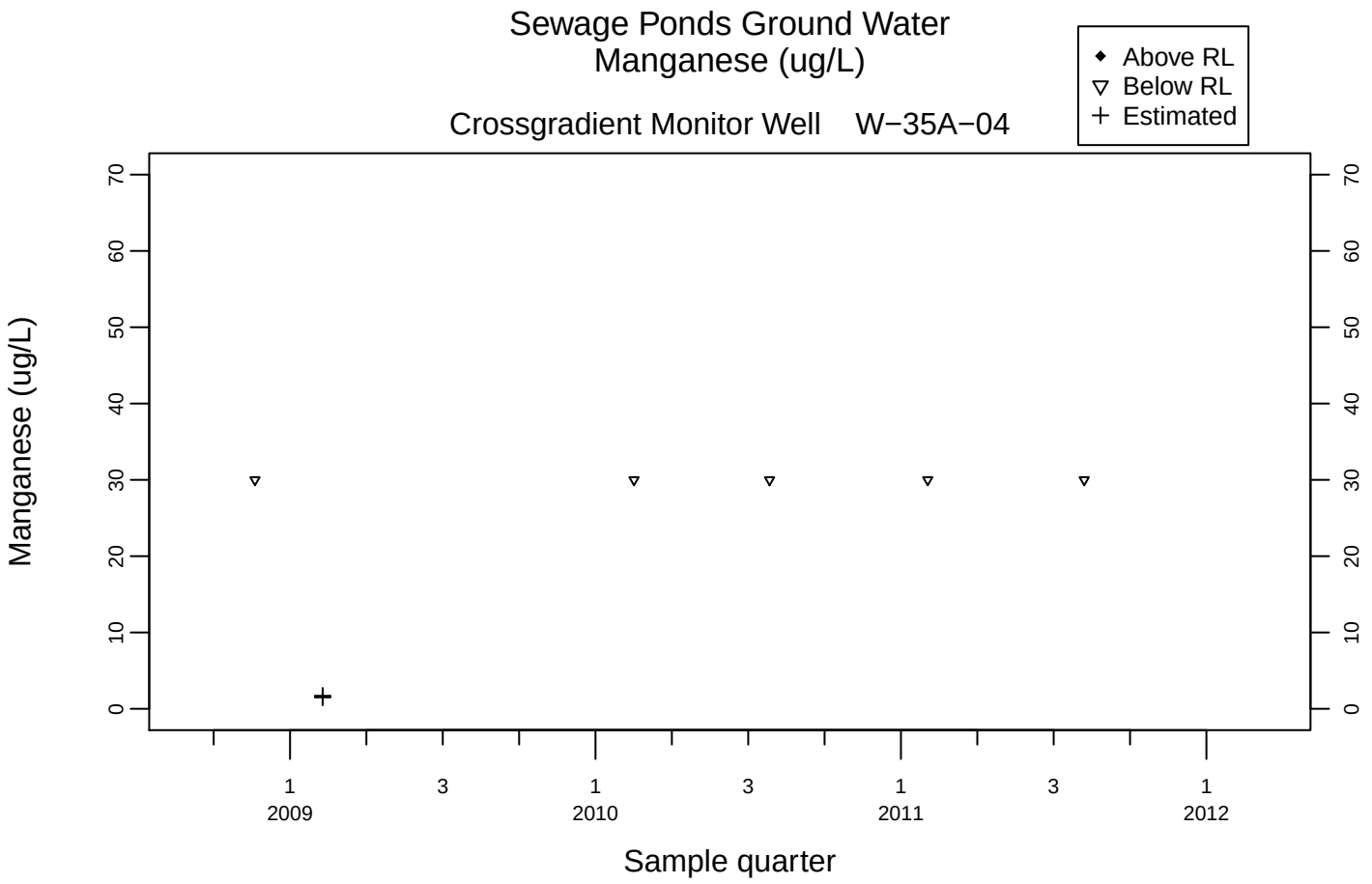

Sewage Ponds Ground Water
Magnesium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Magnesium (ug/L)
0
10000
20000
30000
40000
50000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

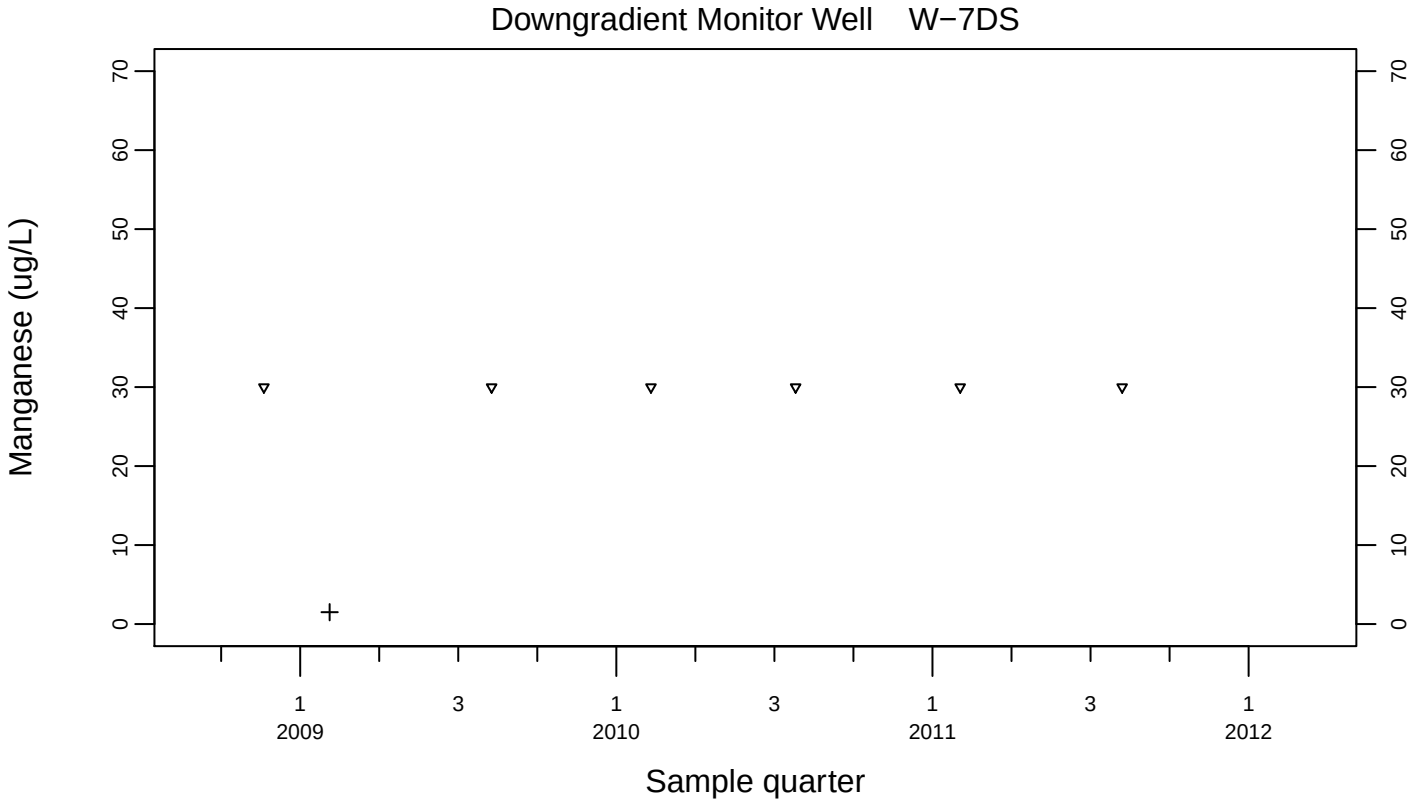

Downgradient Monitor Well W−26R−05
Magnesium (ug/L)
0
10000
20000
30000
40000
50000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

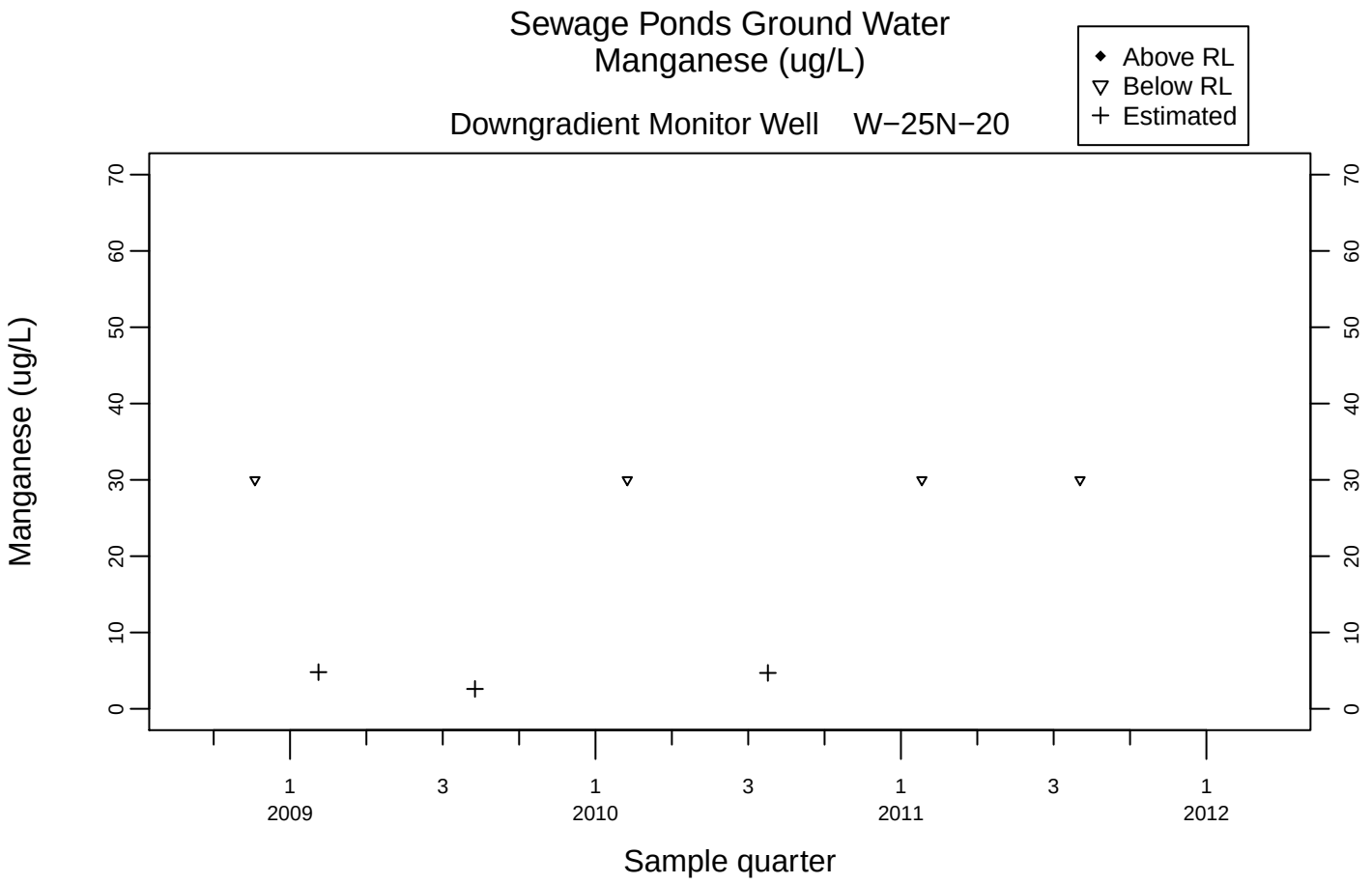

Sewage Ponds Ground Water
Magnesium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Magnesium (ug/L)
0
10000
20000
30000
40000
50000
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

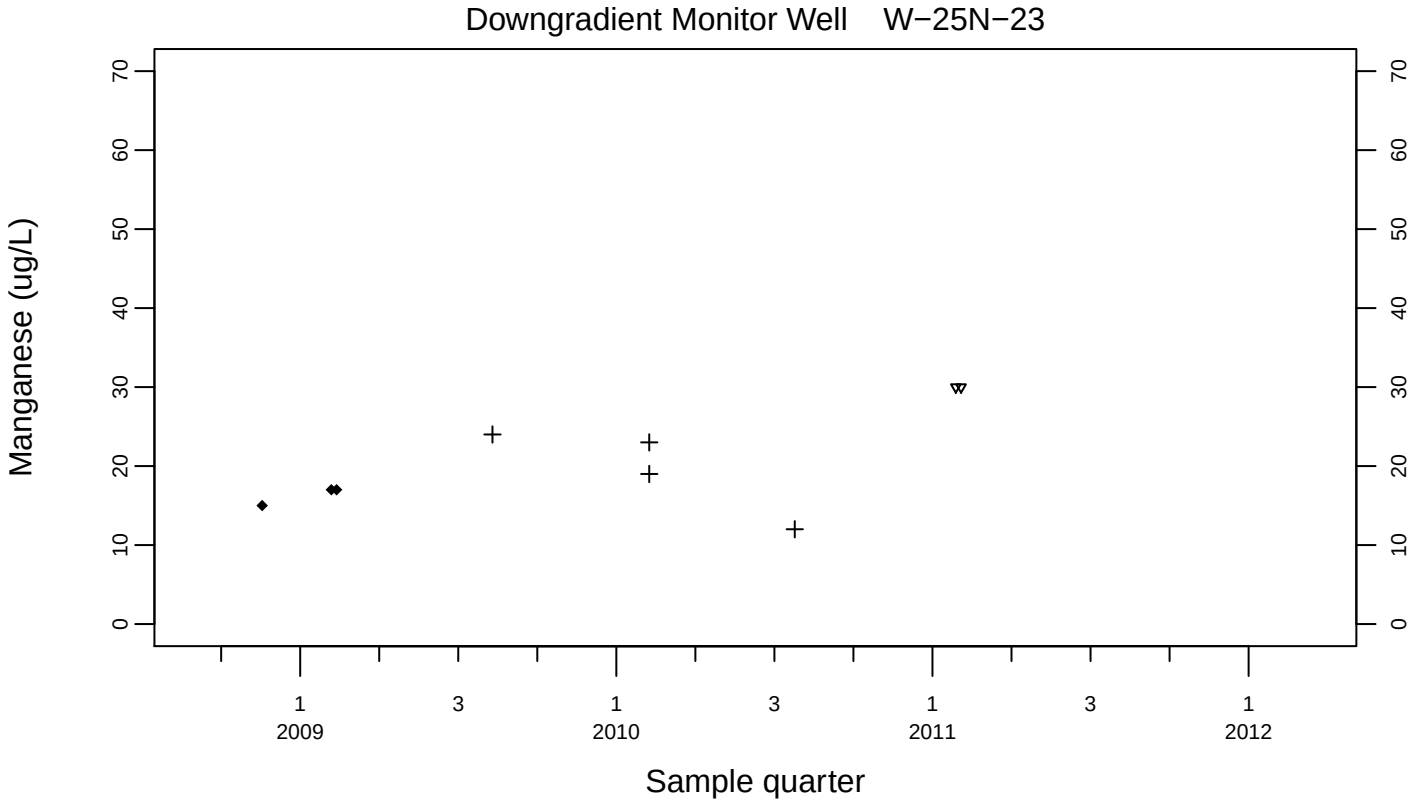

Sewage Ponds Ground Water
Manganese (ug/L)
Above RL
Below RL
Estimated
Upgradient Monitor Well W−7ES
Manganese (ug/L)
0
10
20
30
40
50
60
70
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

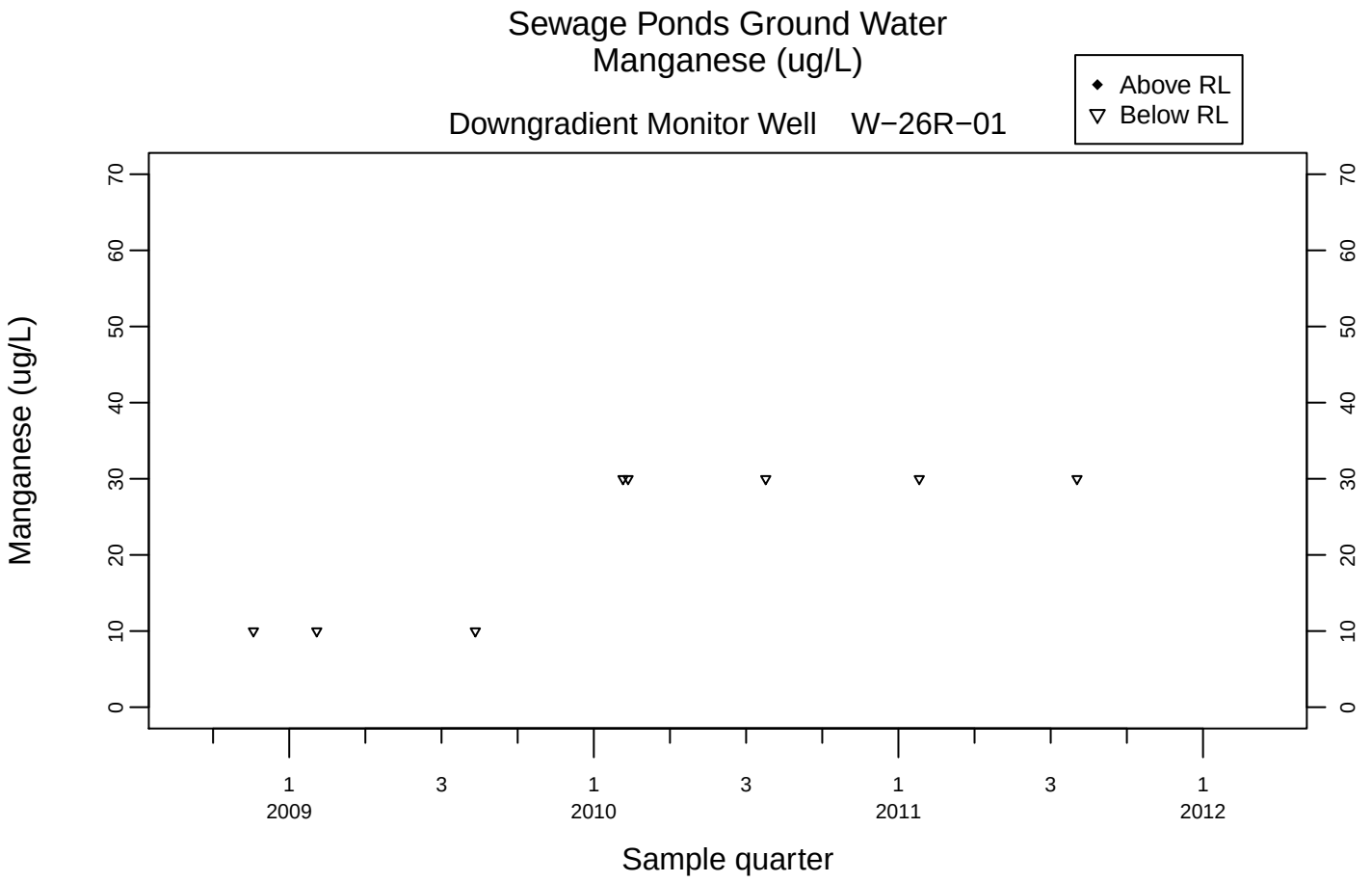

Upgradient Monitor Well W−7PS
Manganese (ug/L)
0
10
20
30
40
50
60
70
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

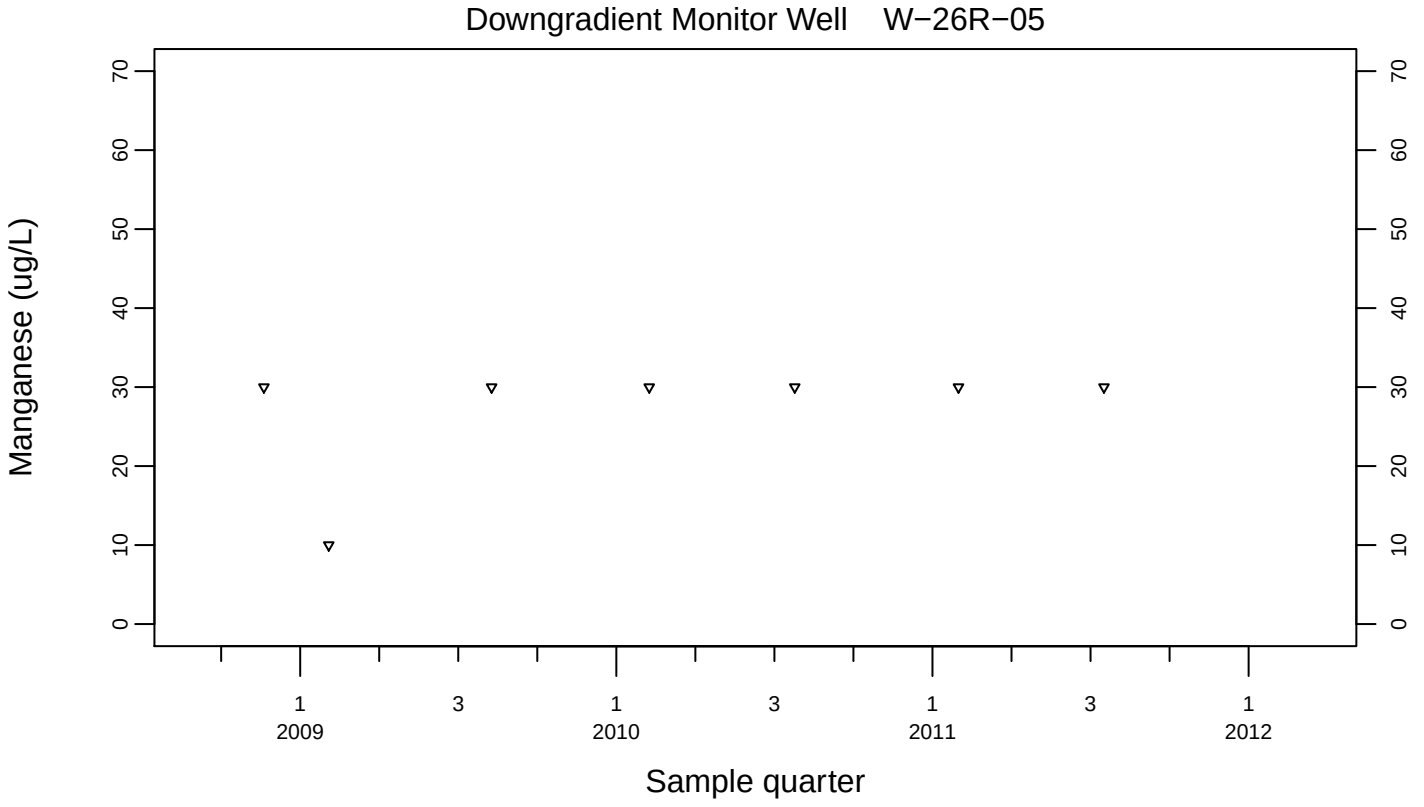

Sewage Ponds Ground Water
Manganese (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Manganese (ug/L)
0
10
20
30
40
50
60
70
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

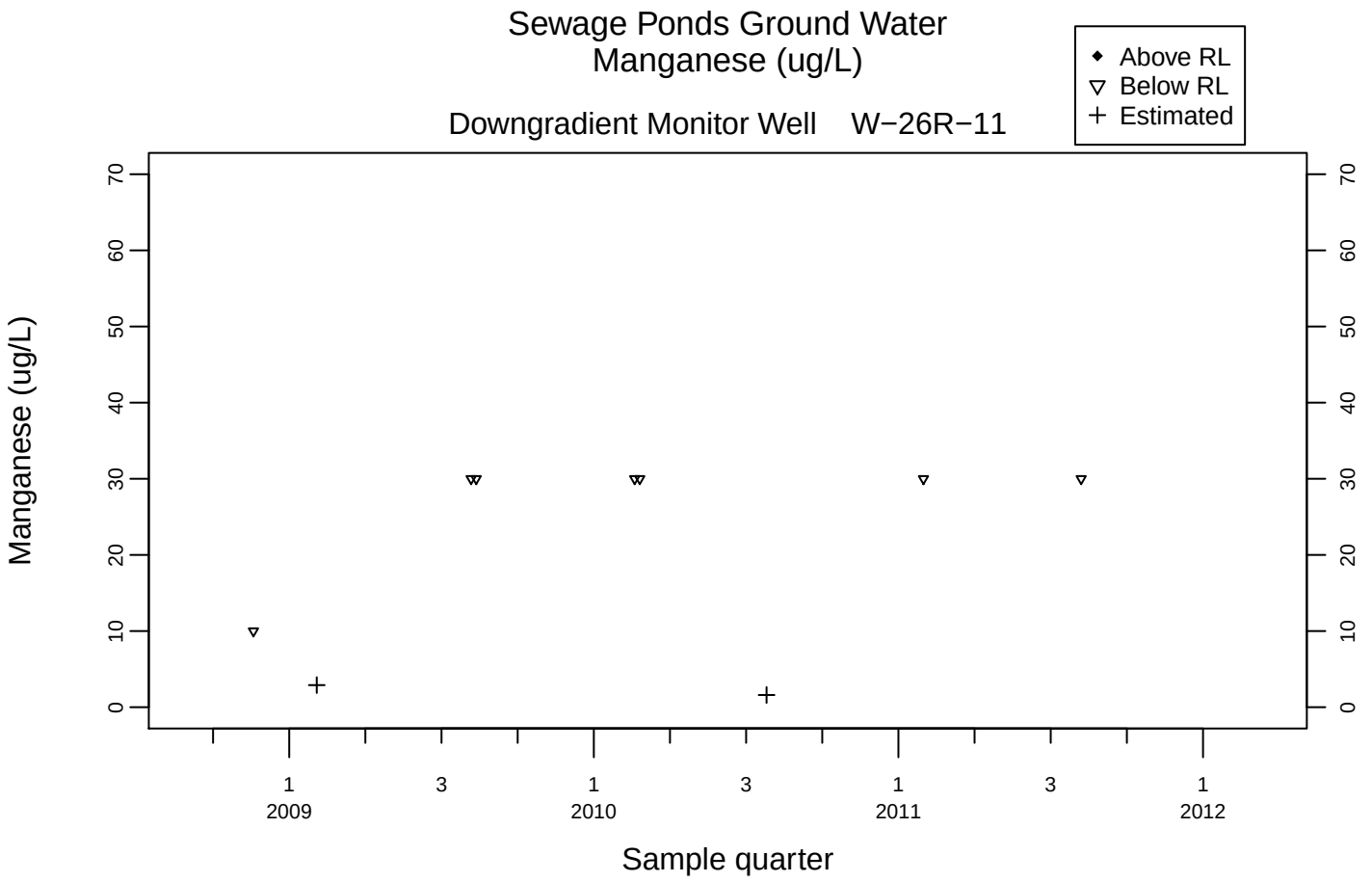

Downgradient Monitor Well W−7DS
Manganese (ug/L)
0
10
20
30
40
50
60
70
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

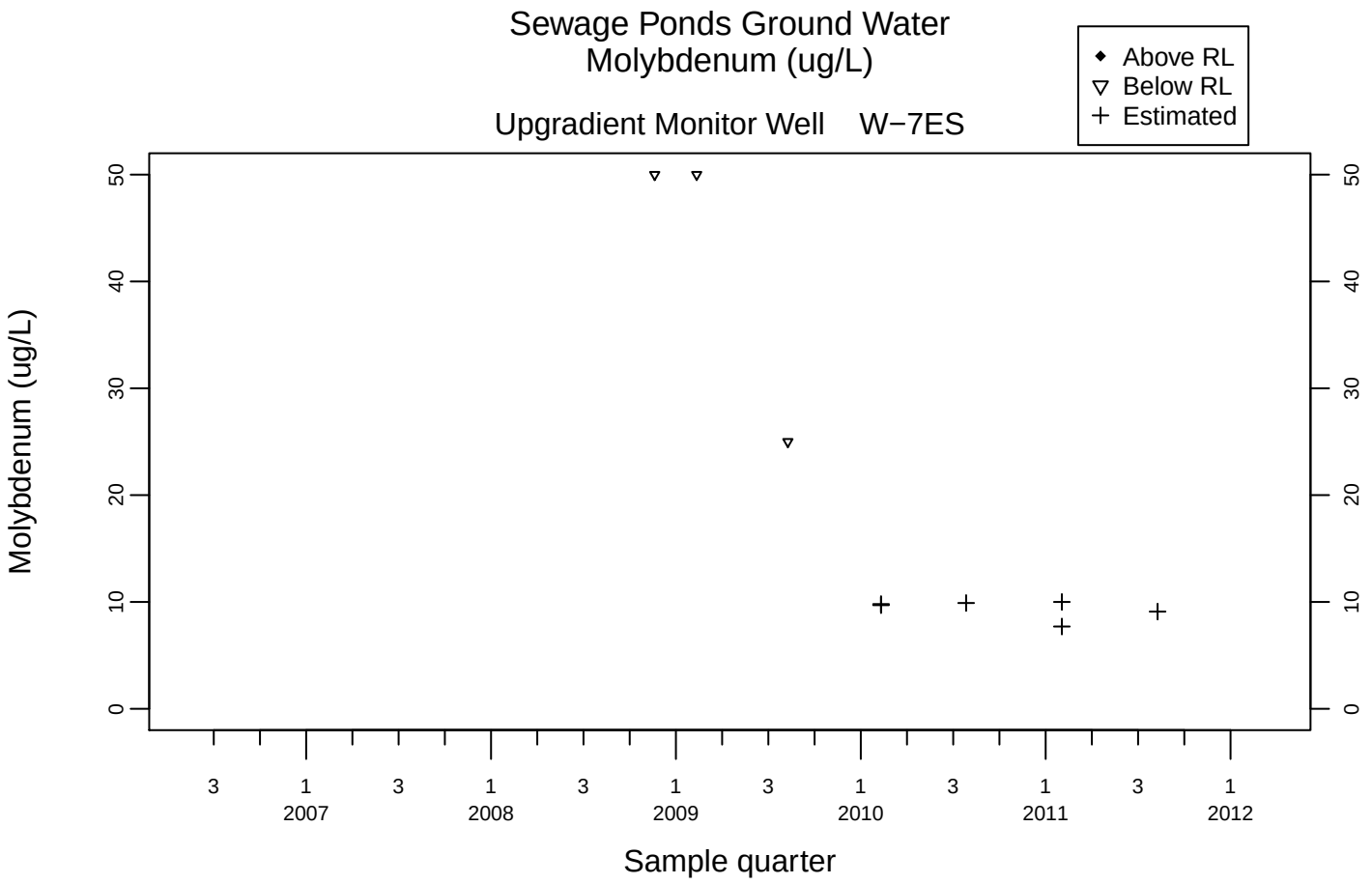

Sewage Ponds Ground Water
Manganese (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−25N−20
Manganese (ug/L)
0
10
20
30
40
50
60
70
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

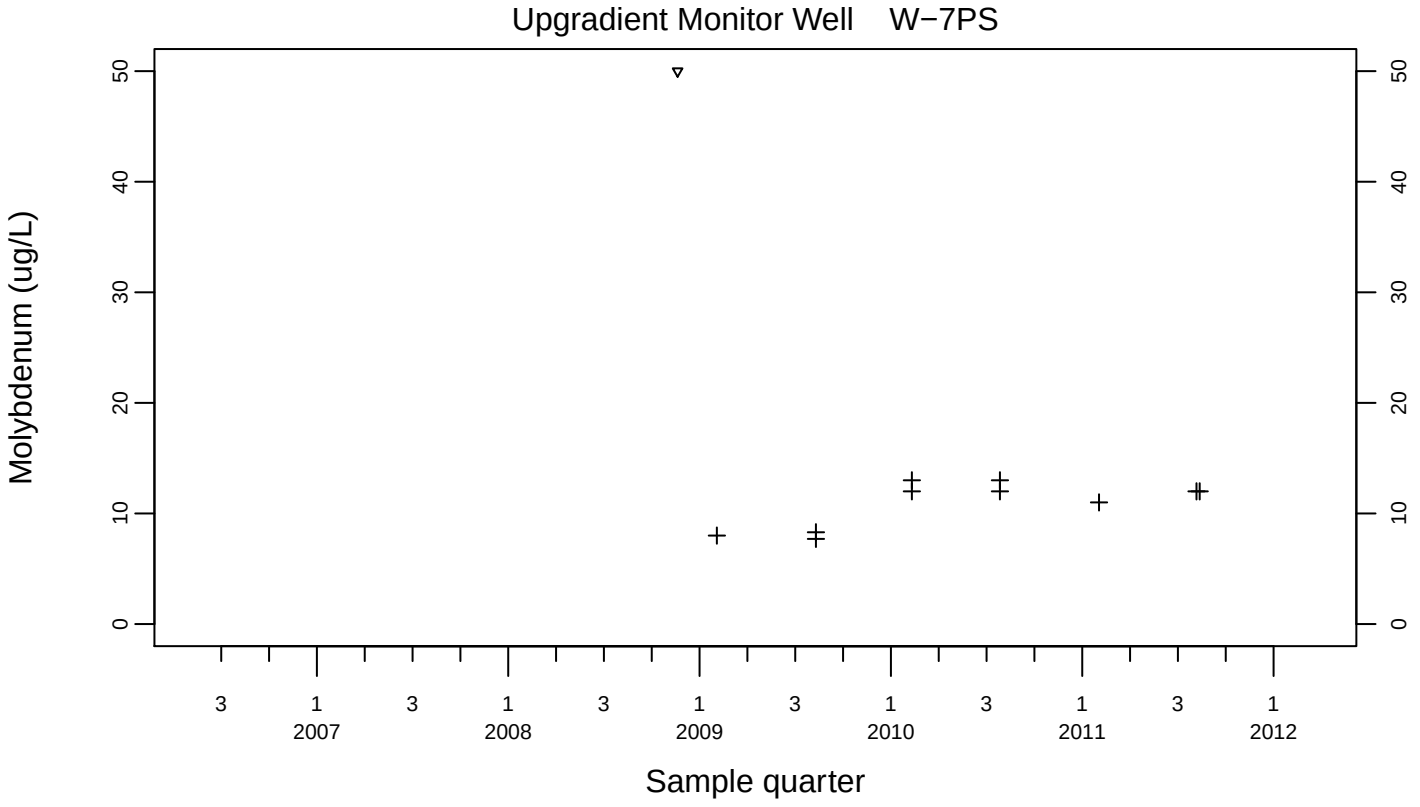

Downgradient Monitor Well W−25N−23
Manganese (ug/L)
0
10
20
30
40
50
60
70
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

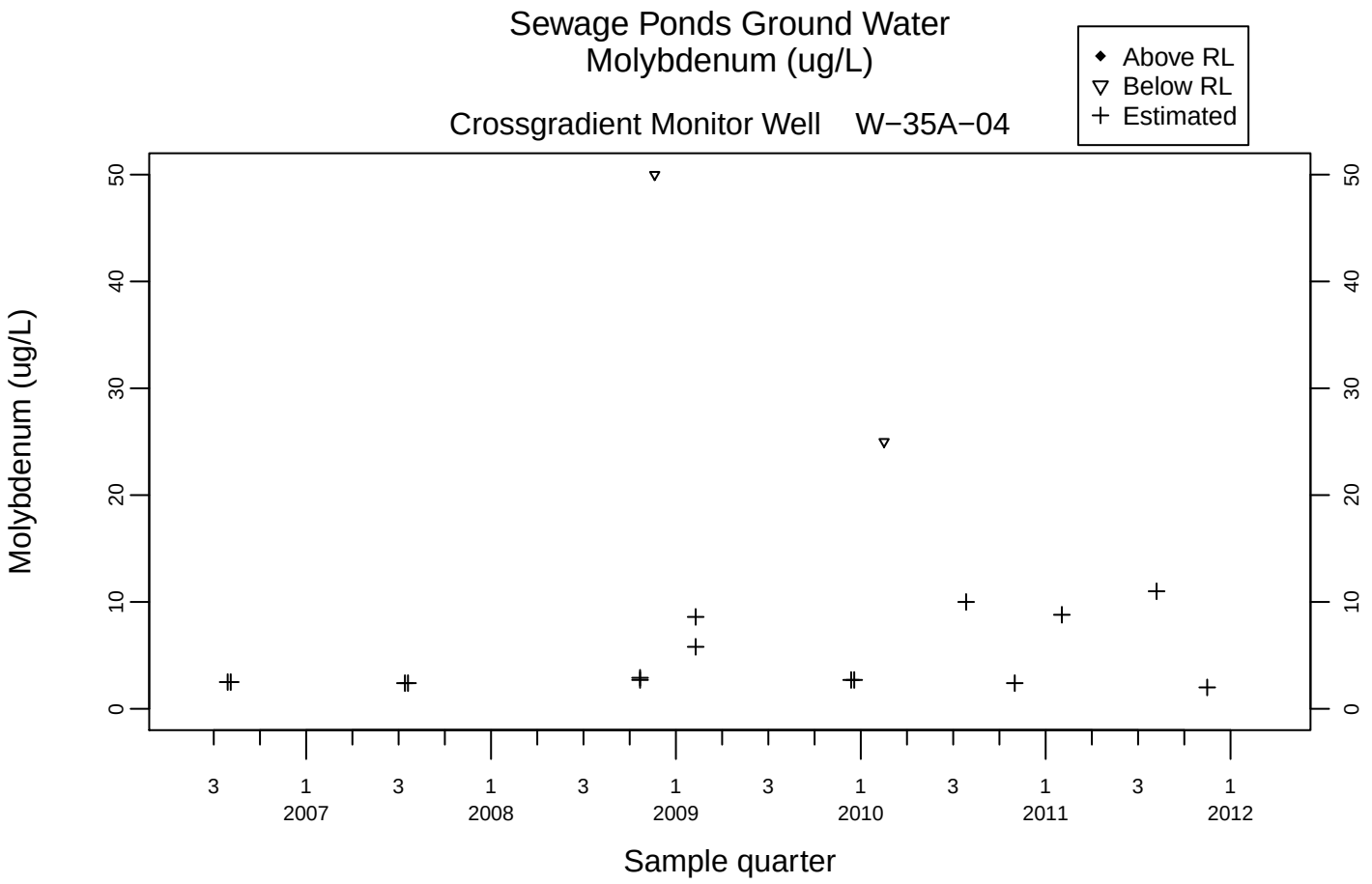

Sewage Ponds Ground Water
Manganese (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Manganese (ug/L)
0
10
20
30
40
50
60
70
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

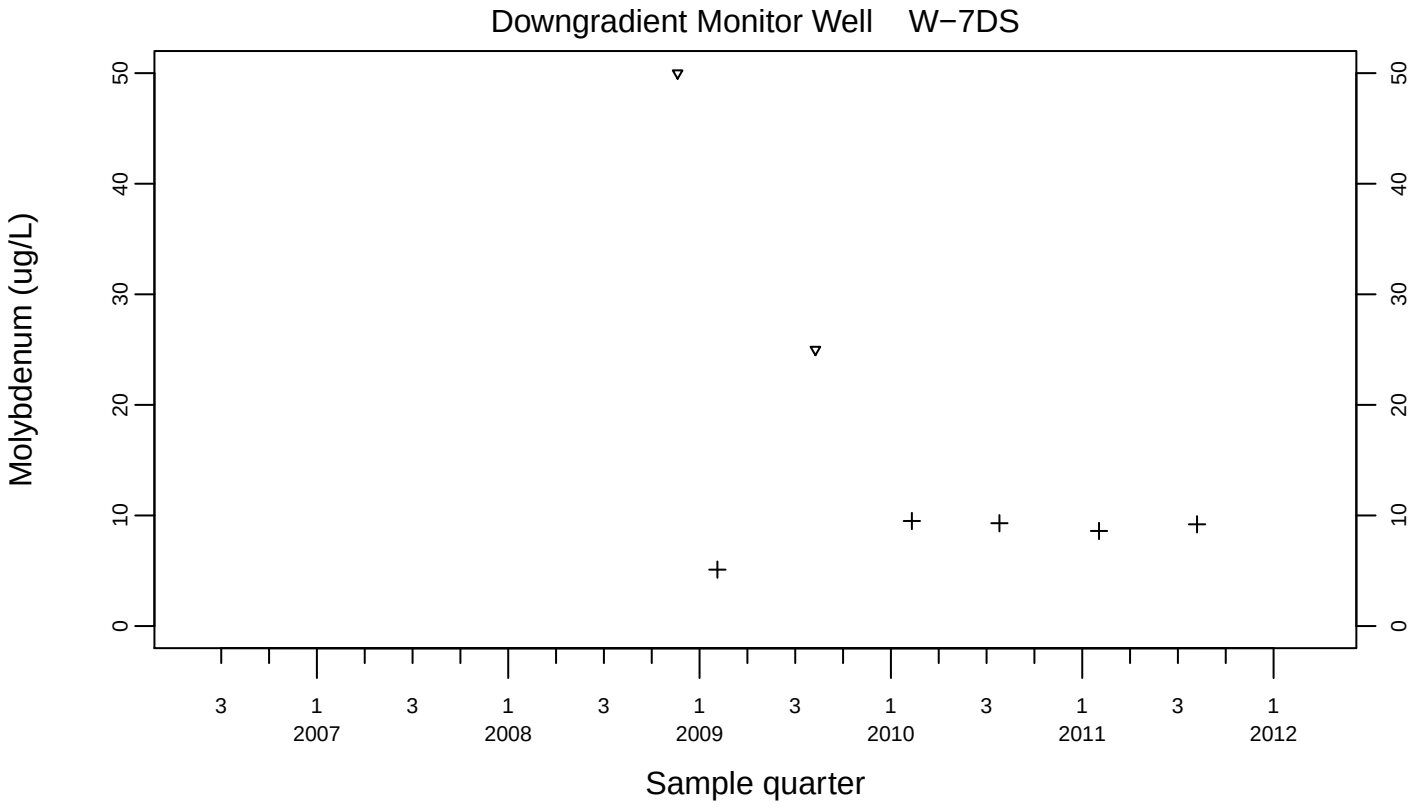

Downgradient Monitor Well W−26R−05
Manganese (ug/L)
0
10
20
30
40
50
60
70
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

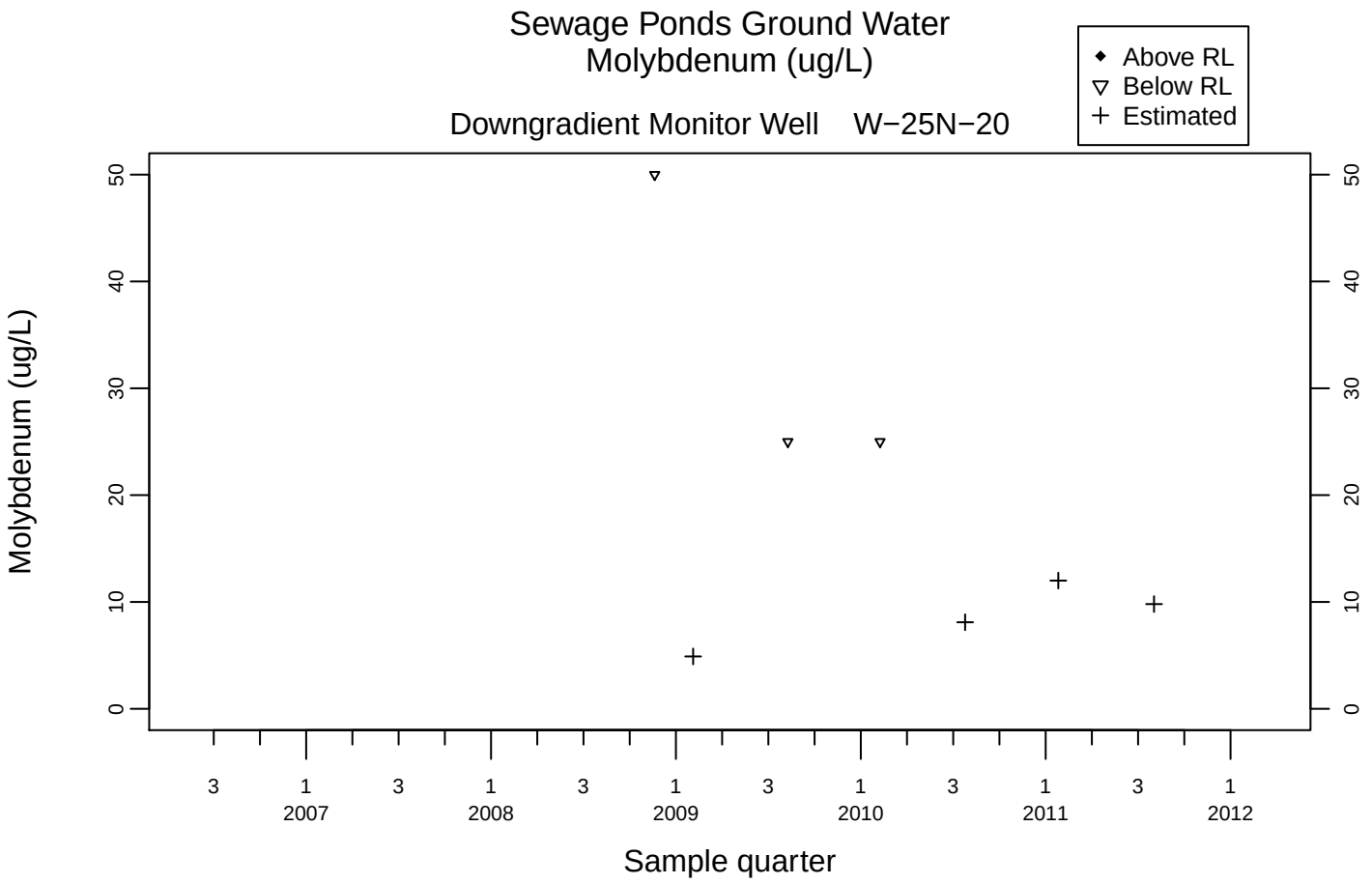

Sewage Ponds Ground Water
Manganese (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Estimated
Manganese (ug/L)
0
10
20
30
40
50
60
70
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

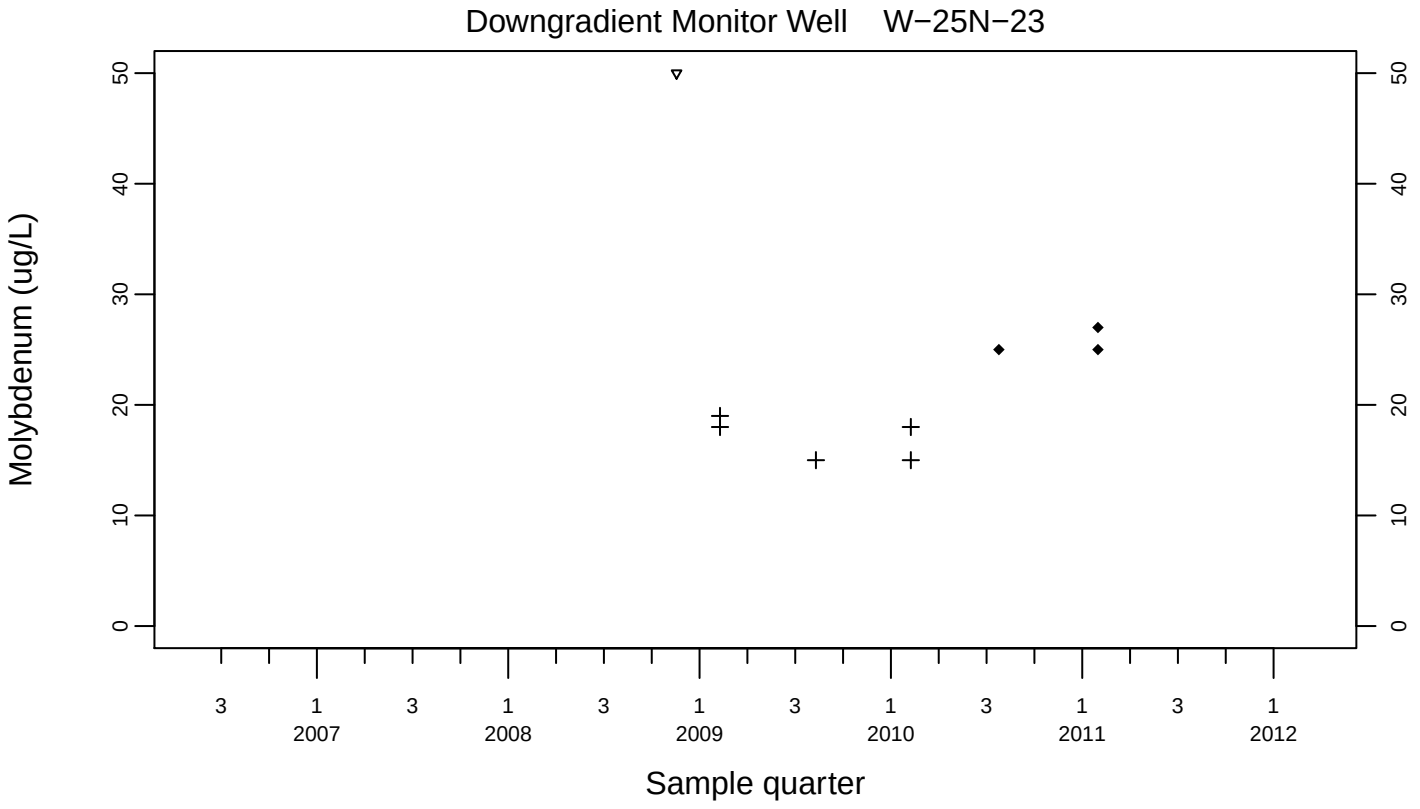

Sewage Ponds Ground Water
Molybdenum (ug/L)
Above RL
Below RL
Estimated
Upgradient Monitor Well W−7ES
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

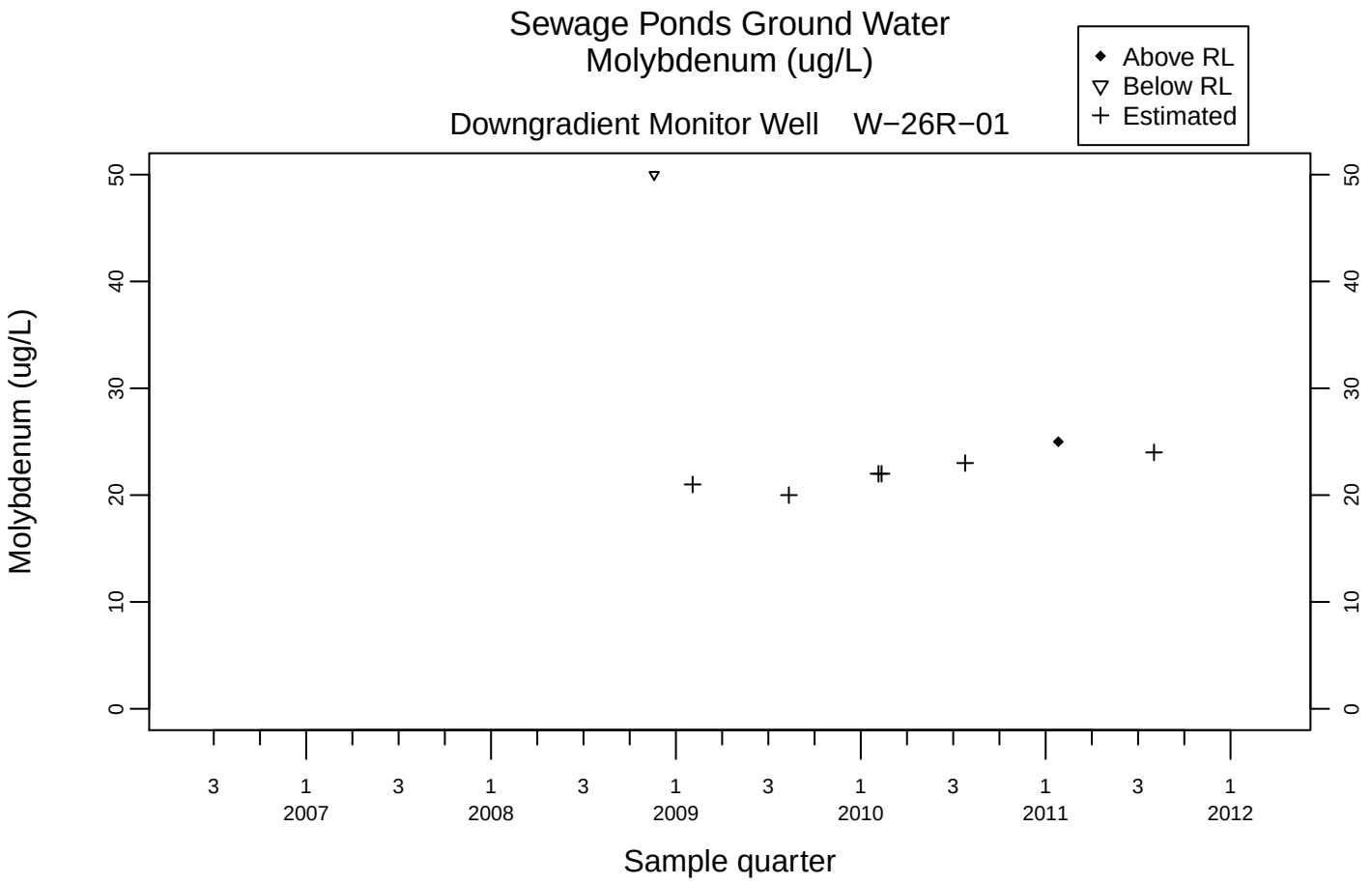

Upgradient Monitor Well W−7PS
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

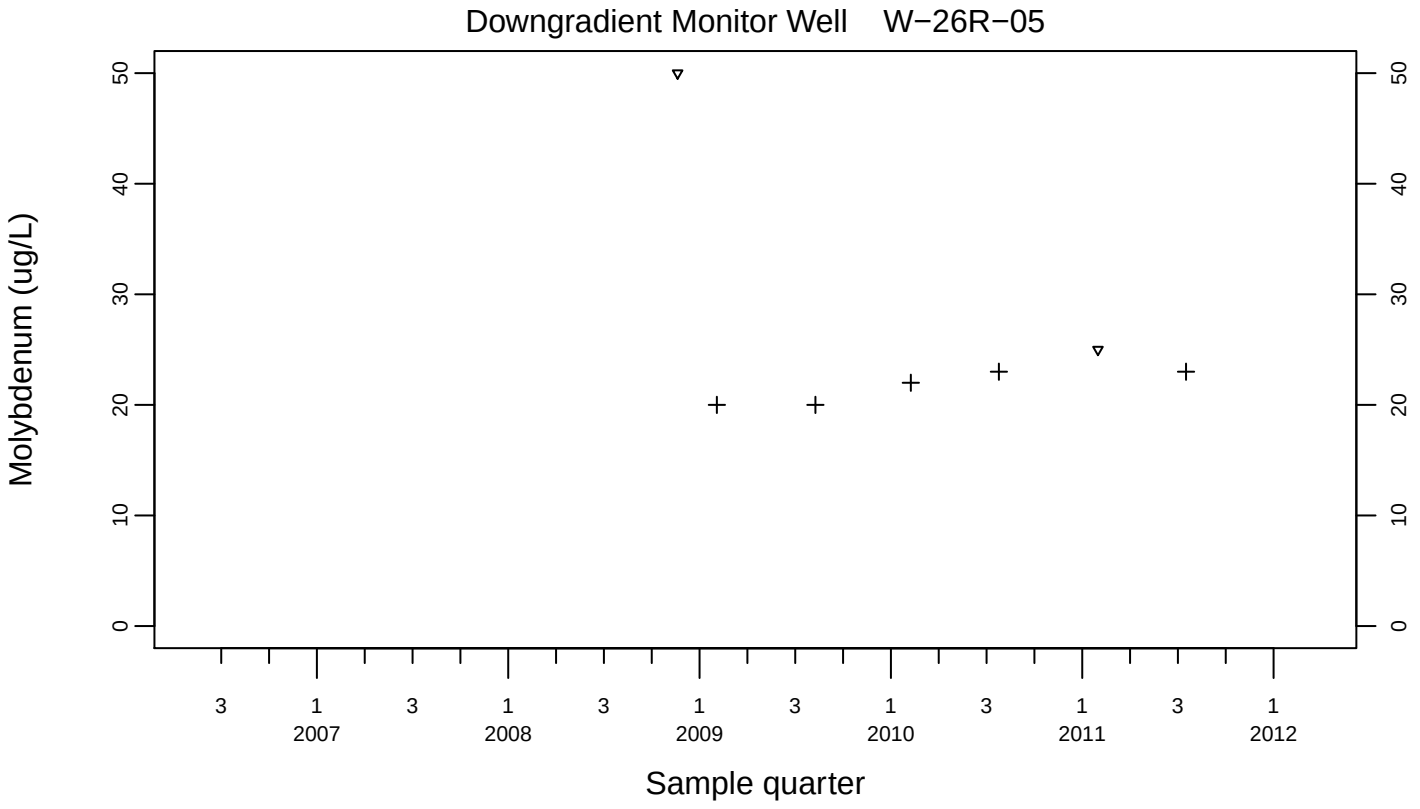

Sewage Ponds Ground Water
Molybdenum (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

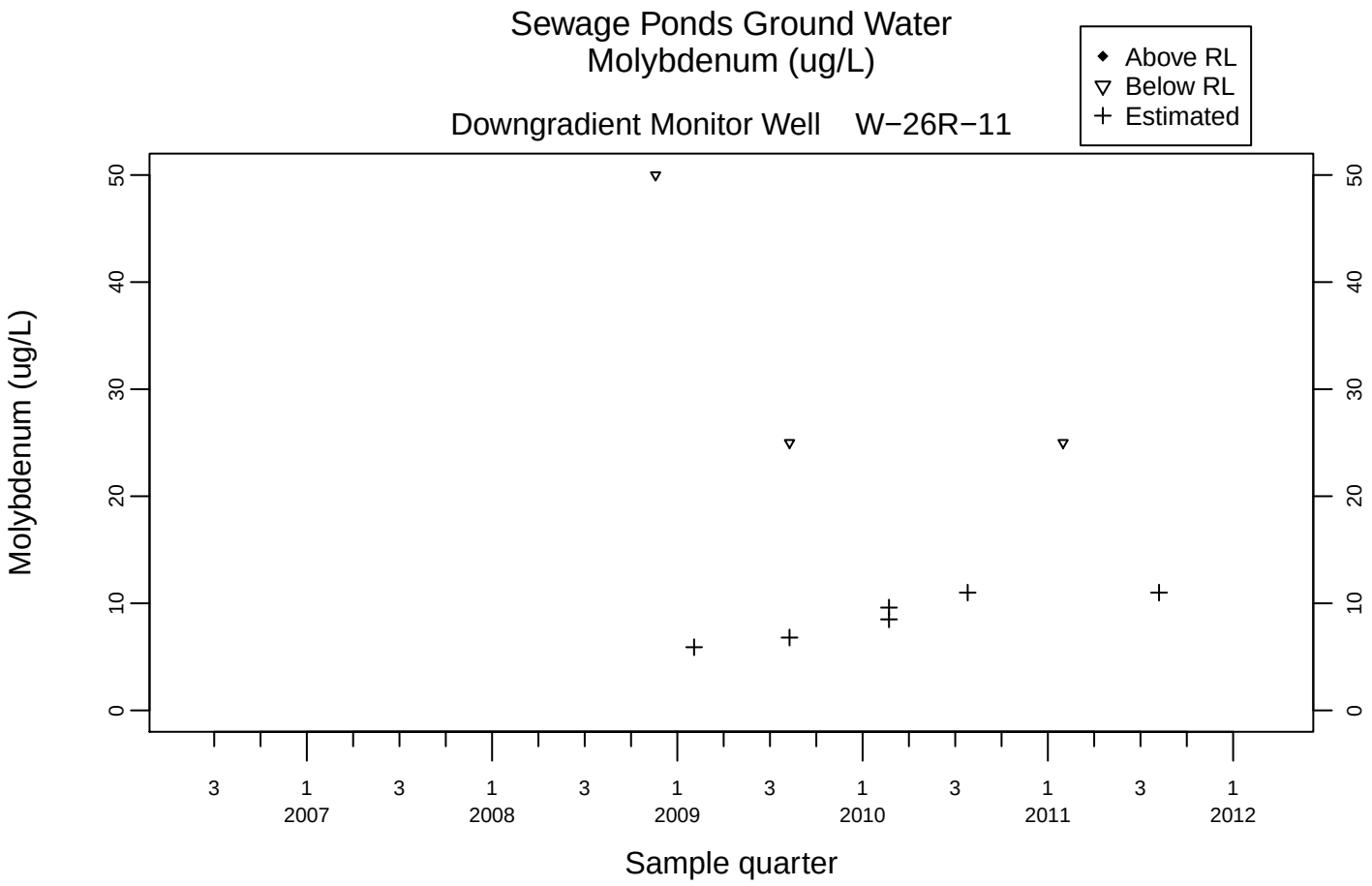

Downgradient Monitor Well W−7DS
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

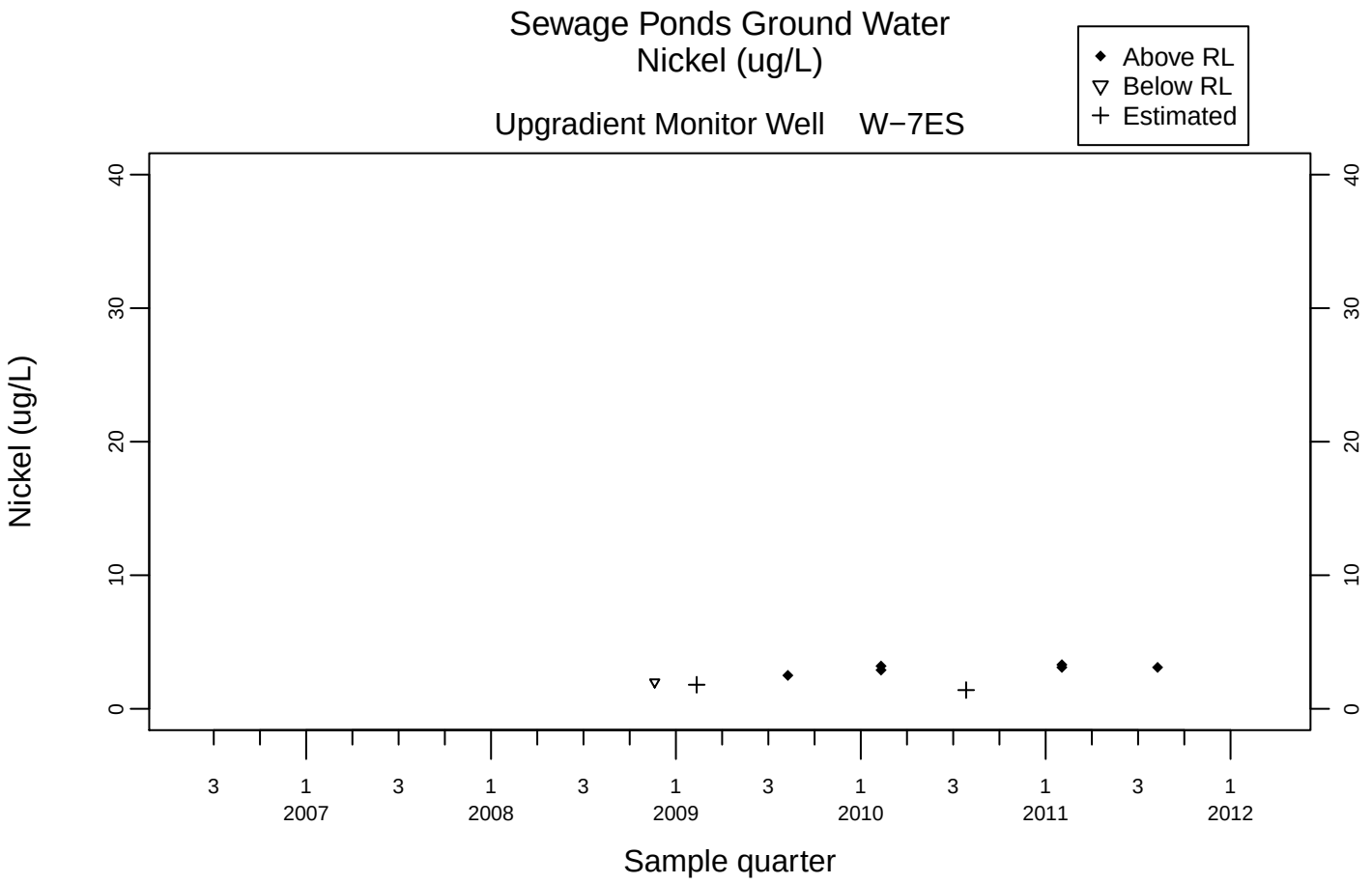

Sewage Ponds Ground Water
Molybdenum (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−25N−20
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

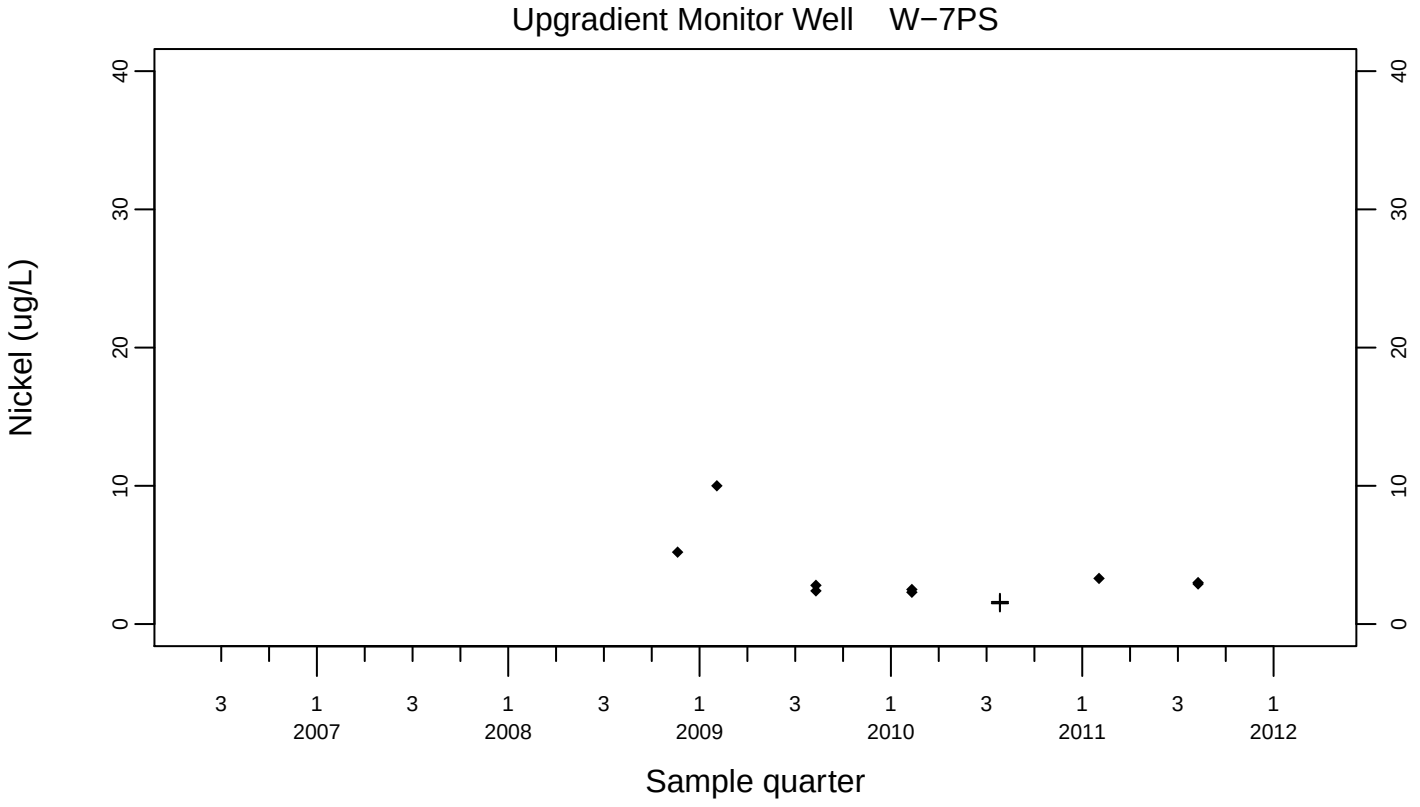

Downgradient Monitor Well W−25N−23
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

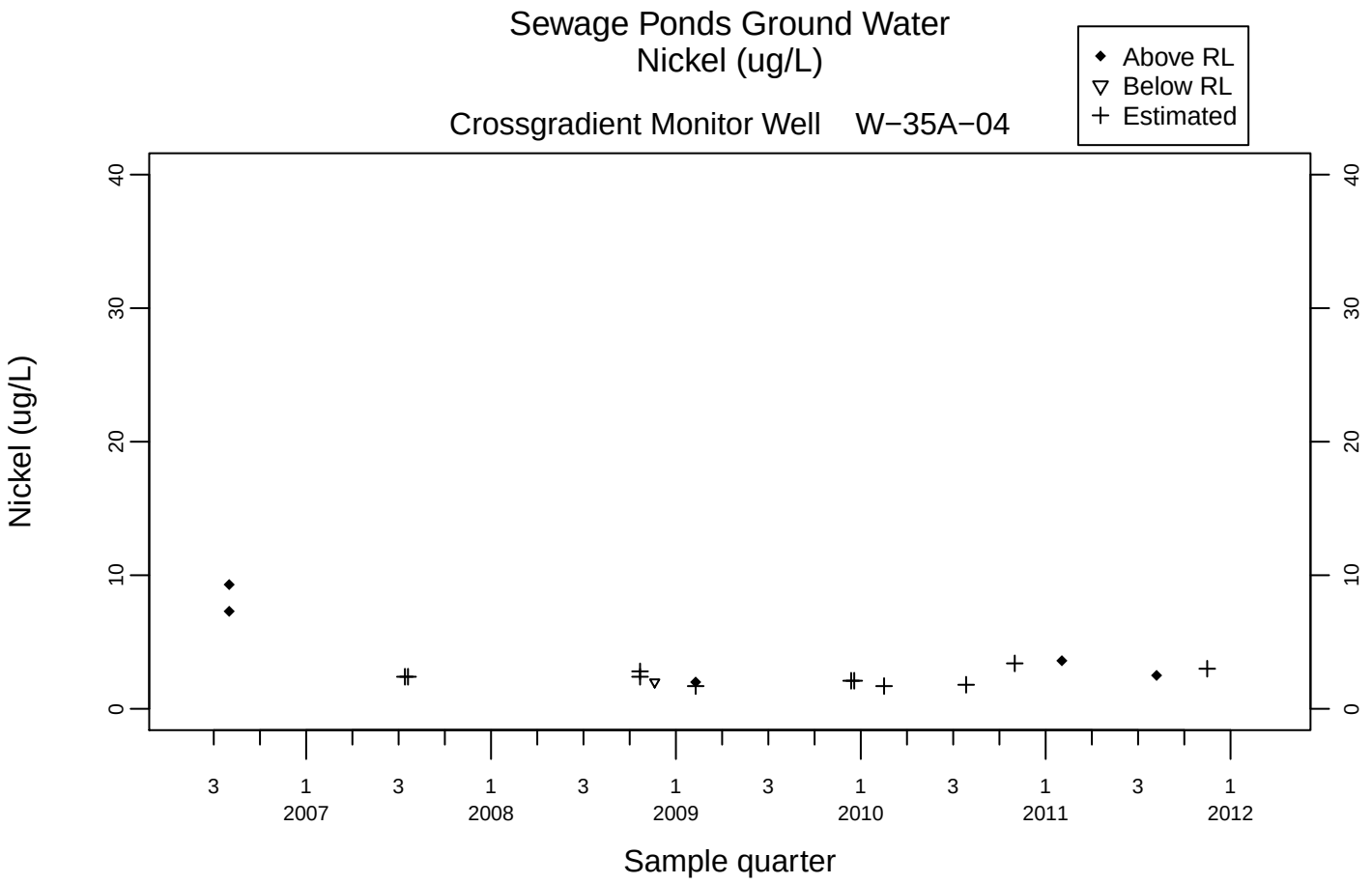

Sewage Ponds Ground Water
Molybdenum (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−26R−01
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

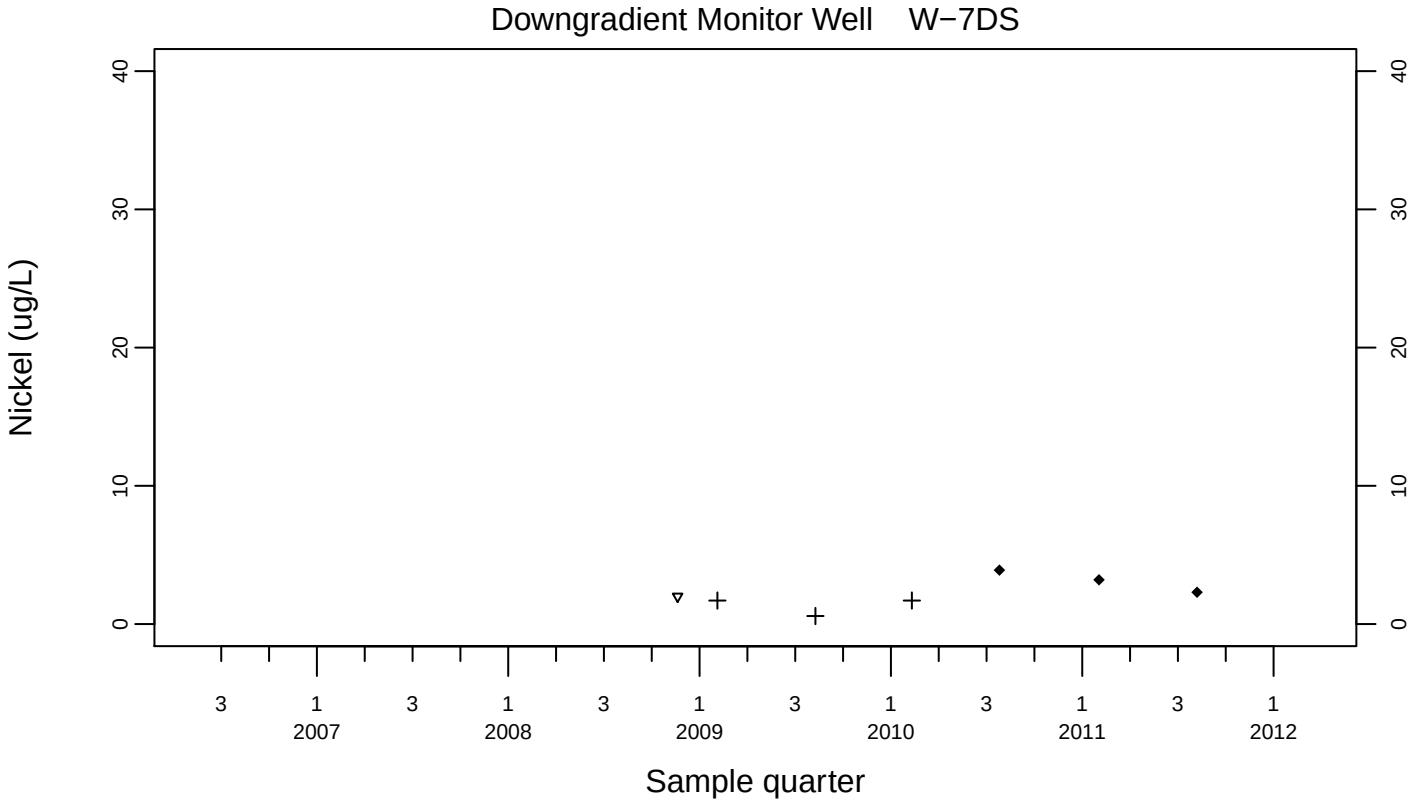

Downgradient Monitor Well W−26R−05
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

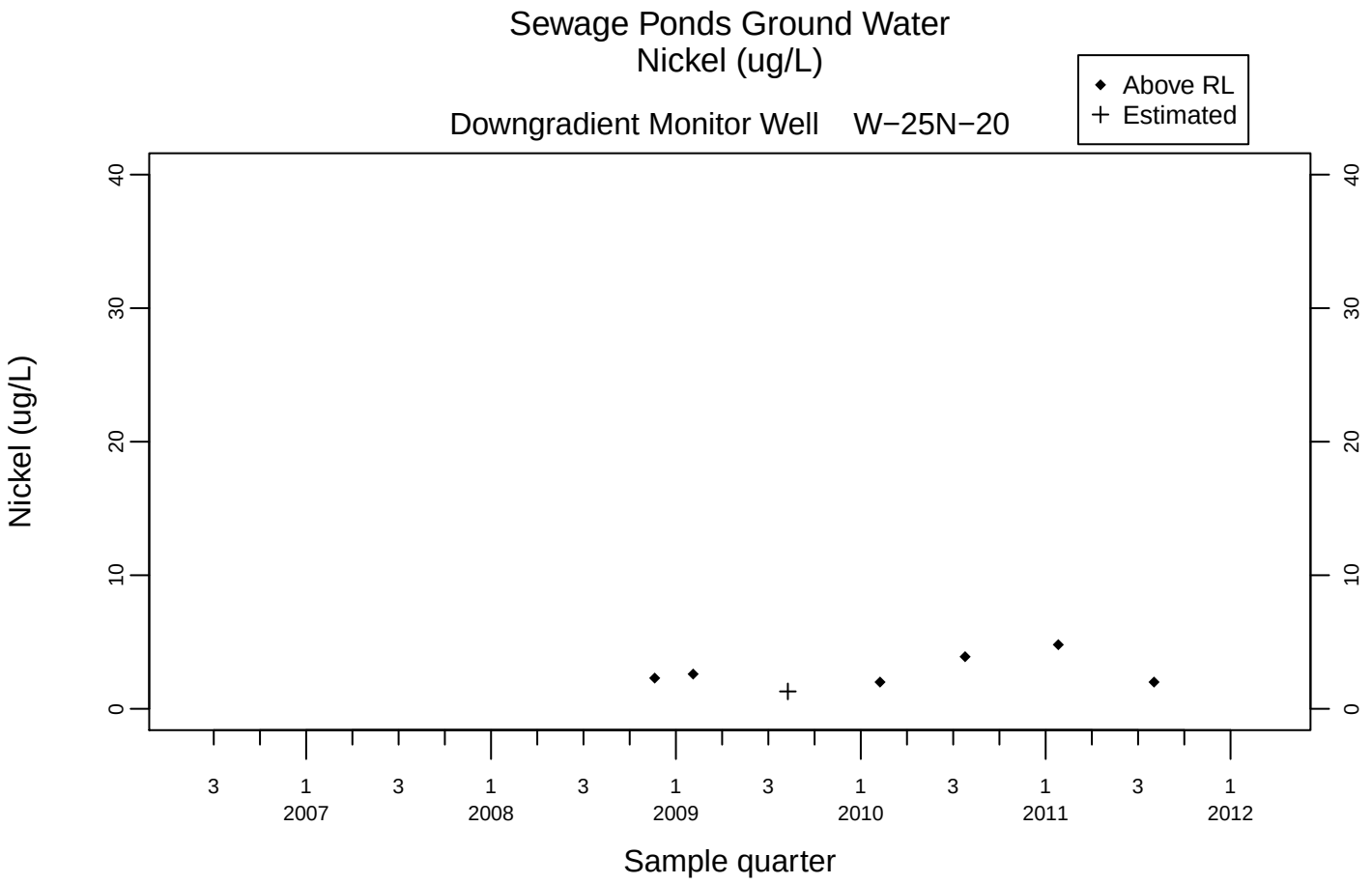

Sewage Ponds Ground Water
Molybdenum (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Estimated
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

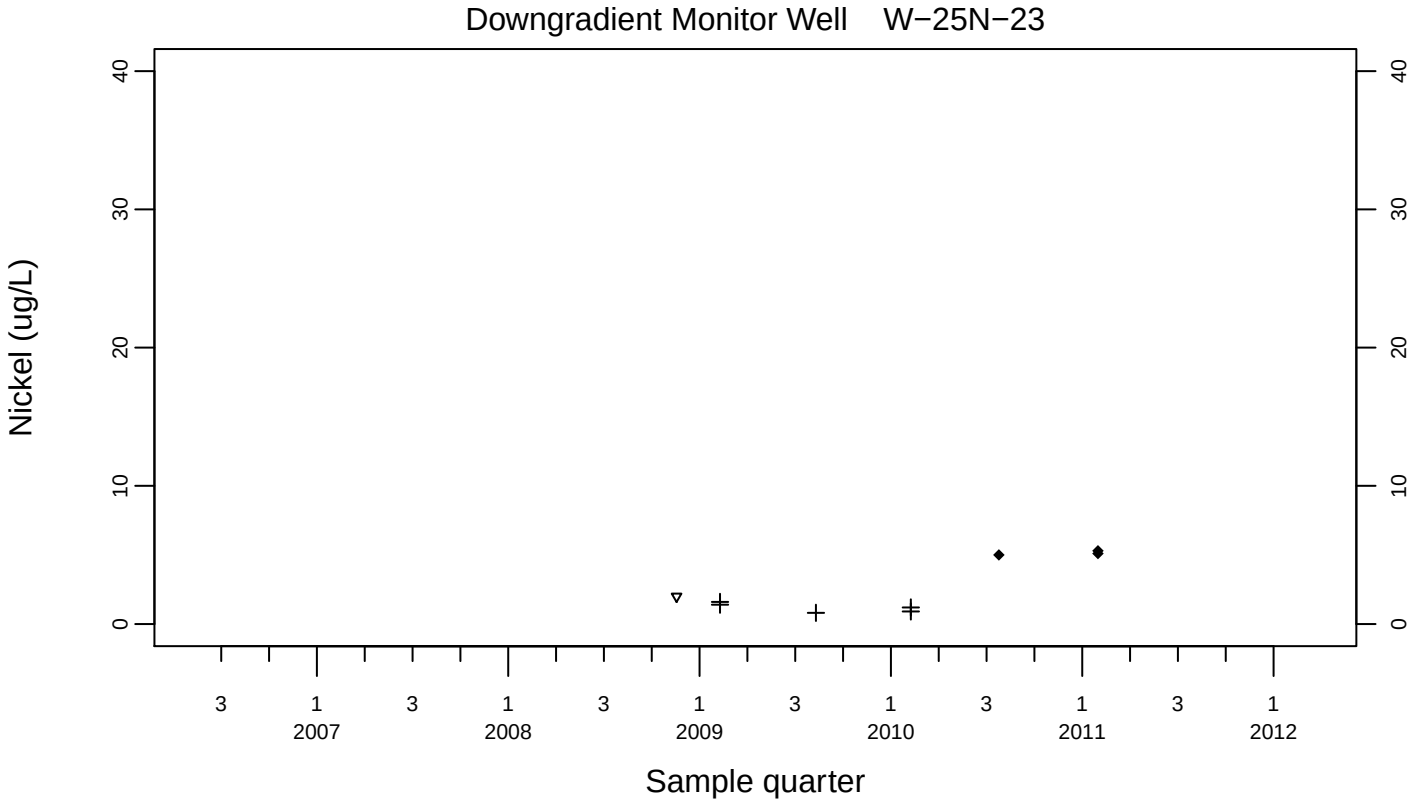

Sewage Ponds Ground Water
Nickel (ug/L)
Above RL
Below RL
Estimated
Upgradient Monitor Well W−7ES
Nickel (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

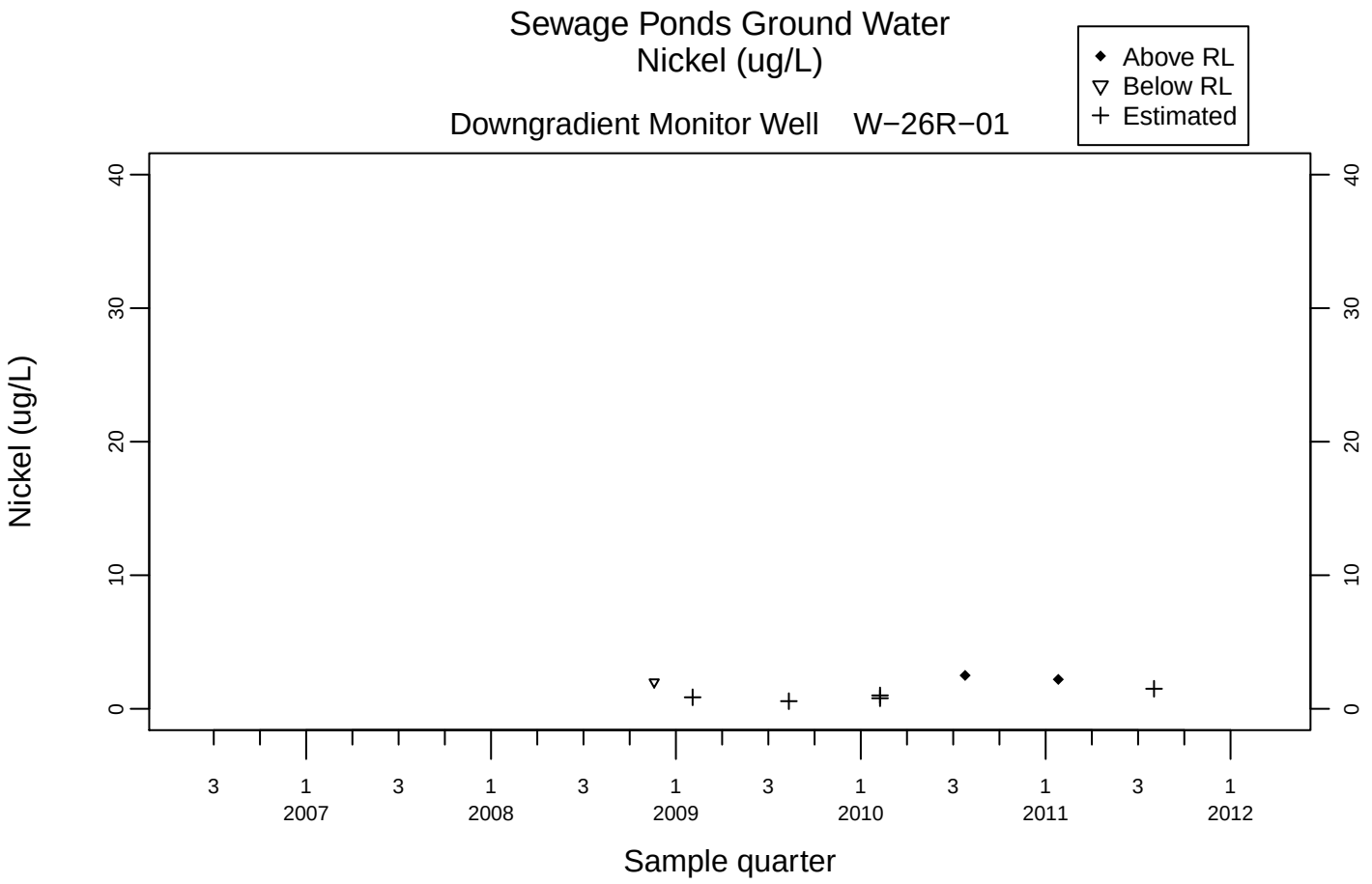

Upgradient Monitor Well W−7PS
Nickel (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

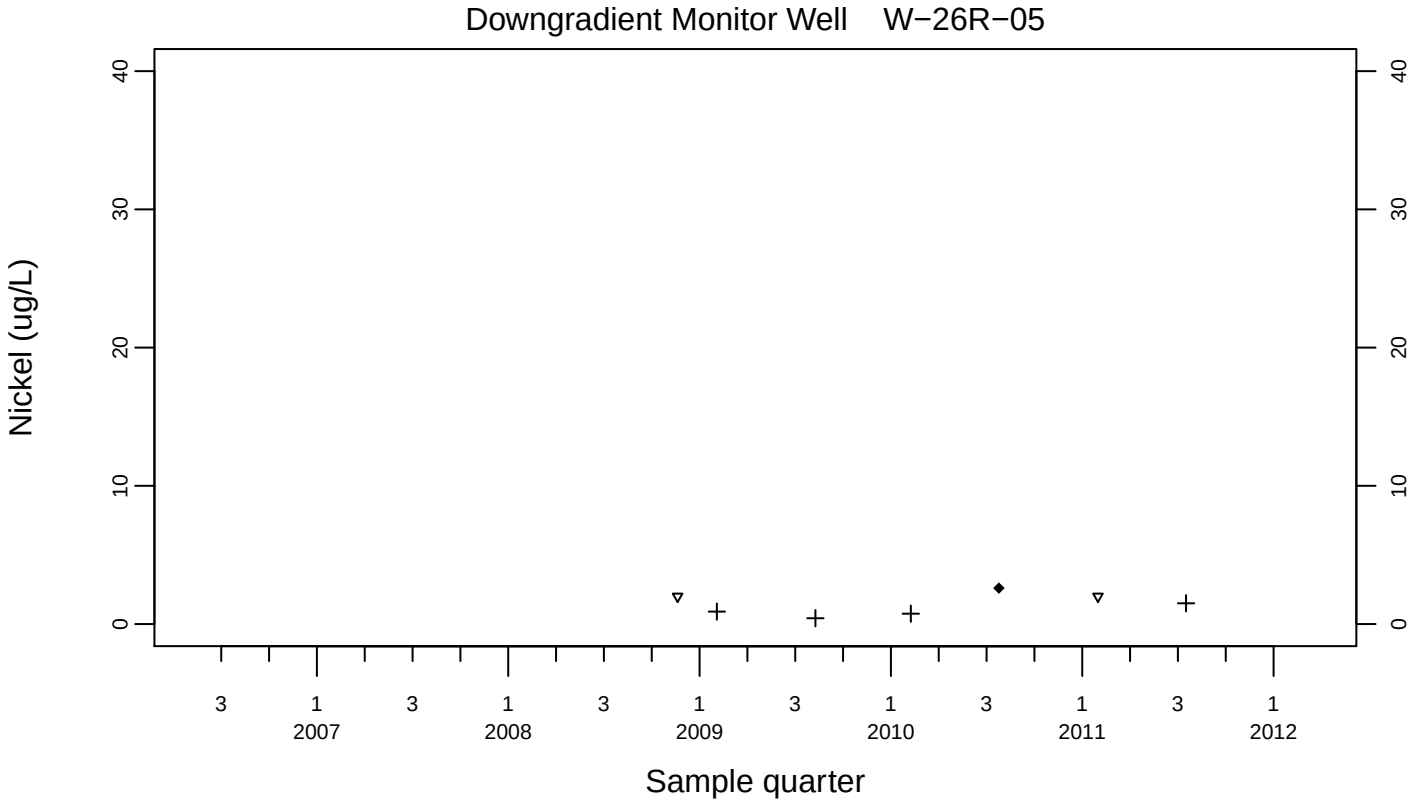

Sewage Ponds Ground Water
Nickel (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Nickel (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

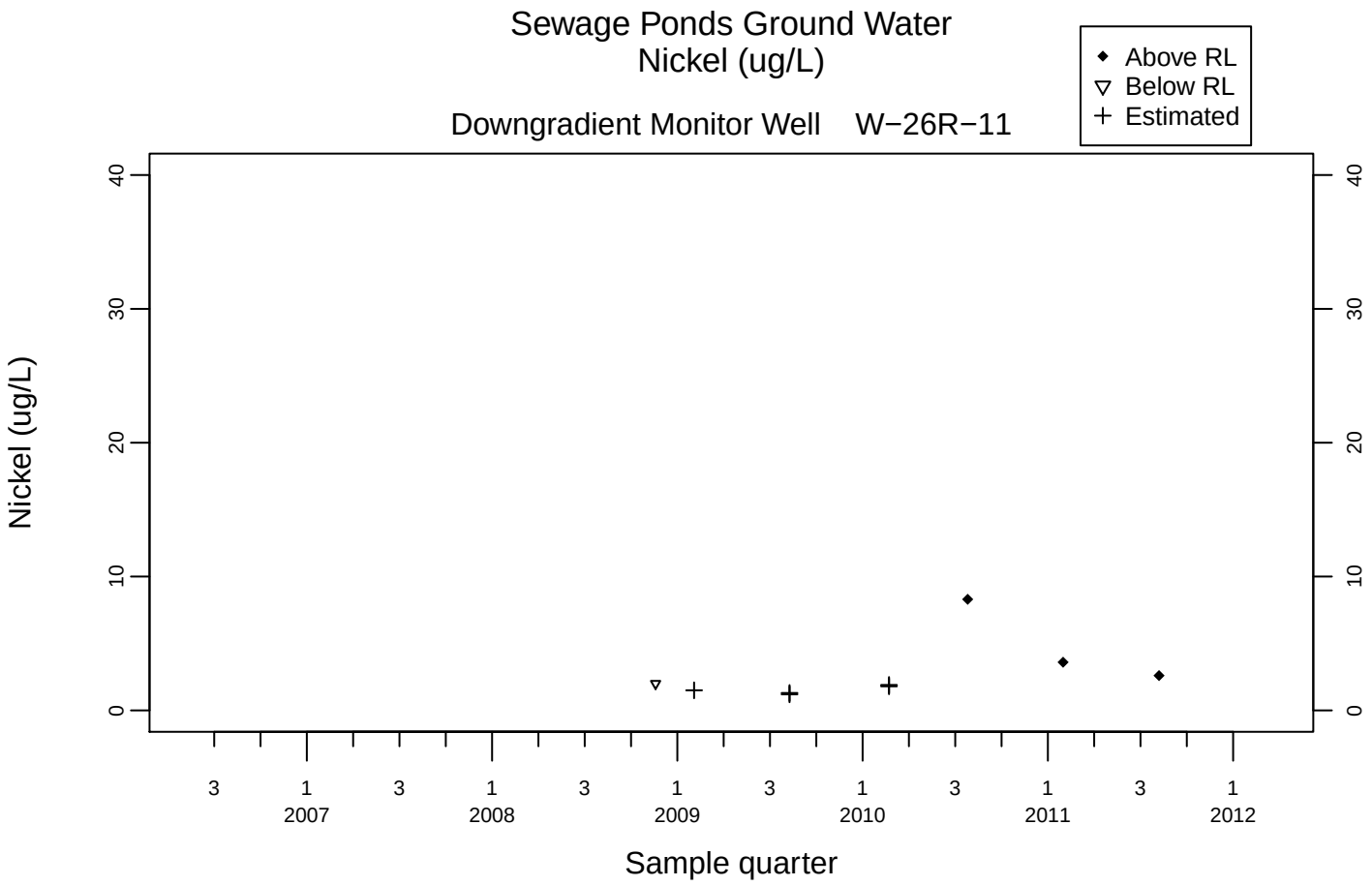

Downgradient Monitor Well W−7DS
Nickel (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

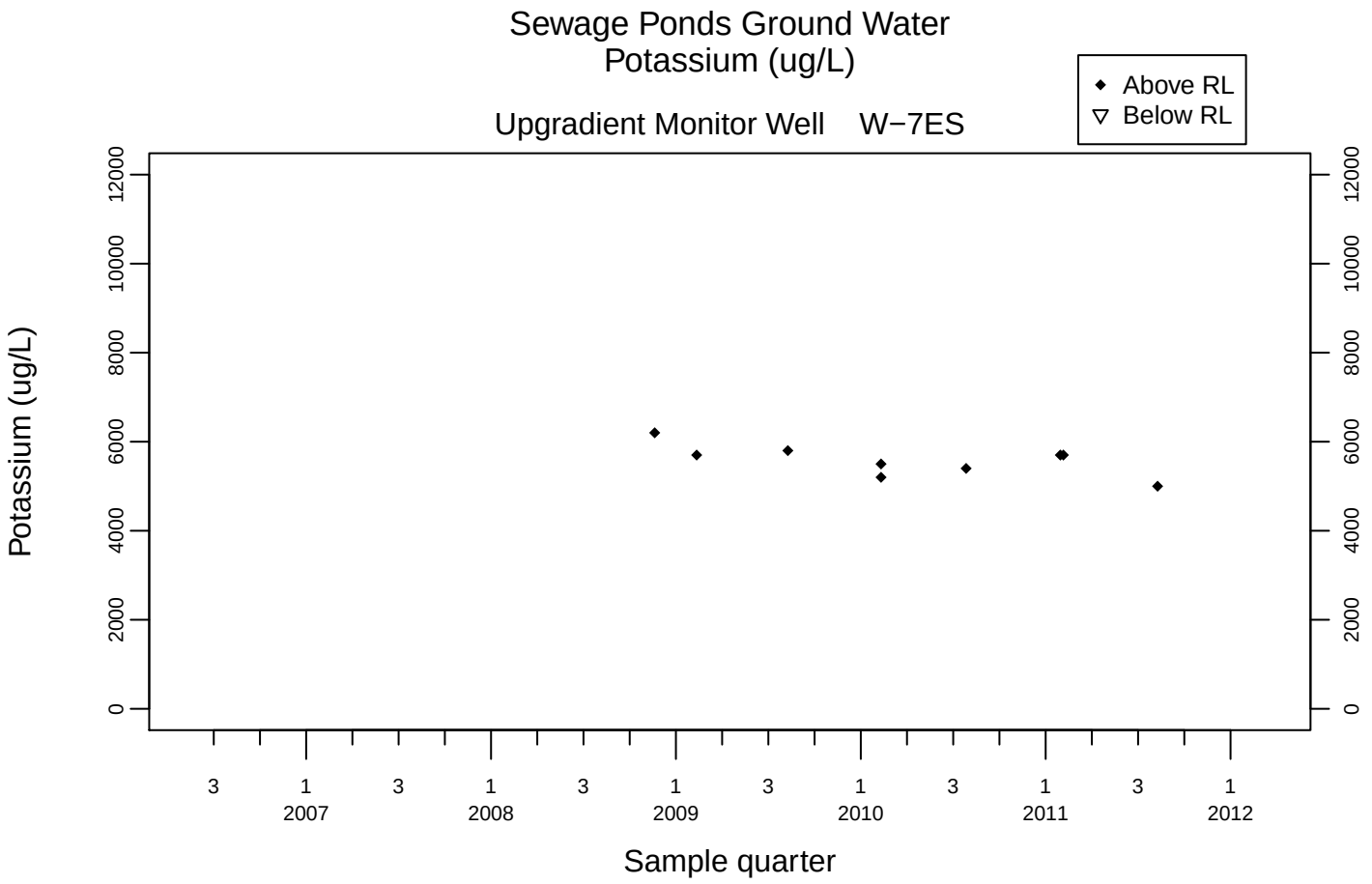

Sewage Ponds Ground Water
Nickel (ug/L)
Above RL
Estimated
Downgradient Monitor Well W−25N−20
Nickel (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

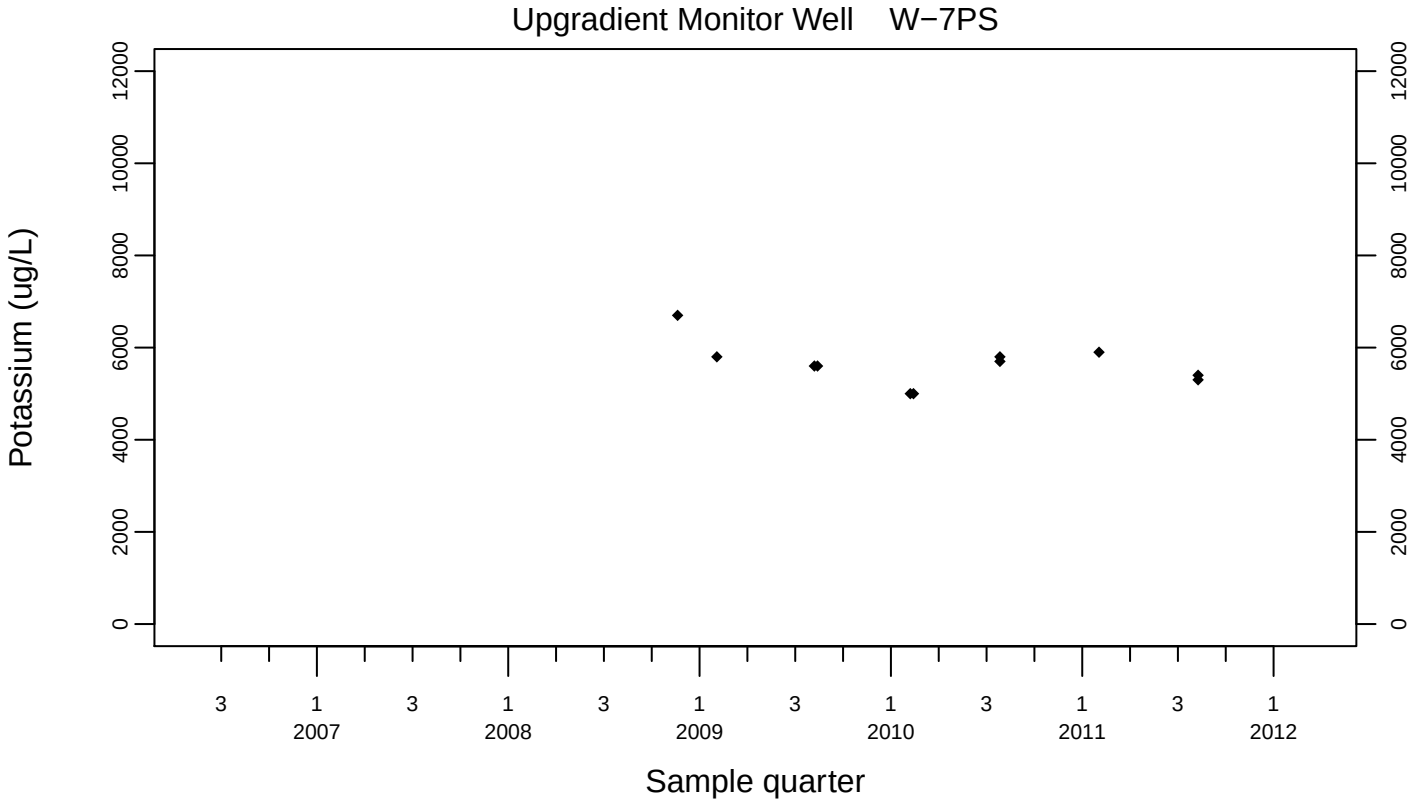

Downgradient Monitor Well W−25N−23
Nickel (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

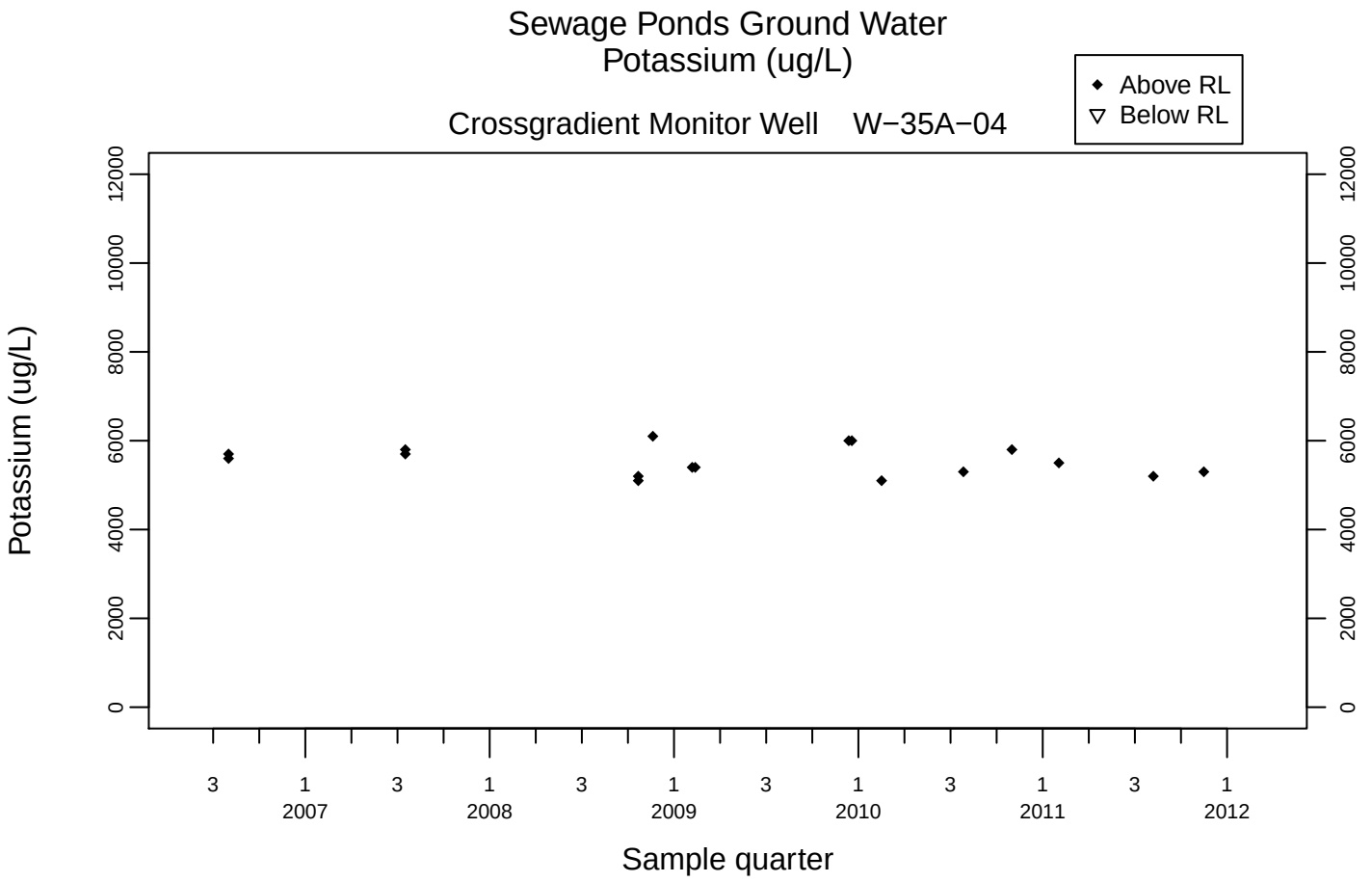

Sewage Ponds Ground Water
Nickel (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−26R−01
Nickel (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

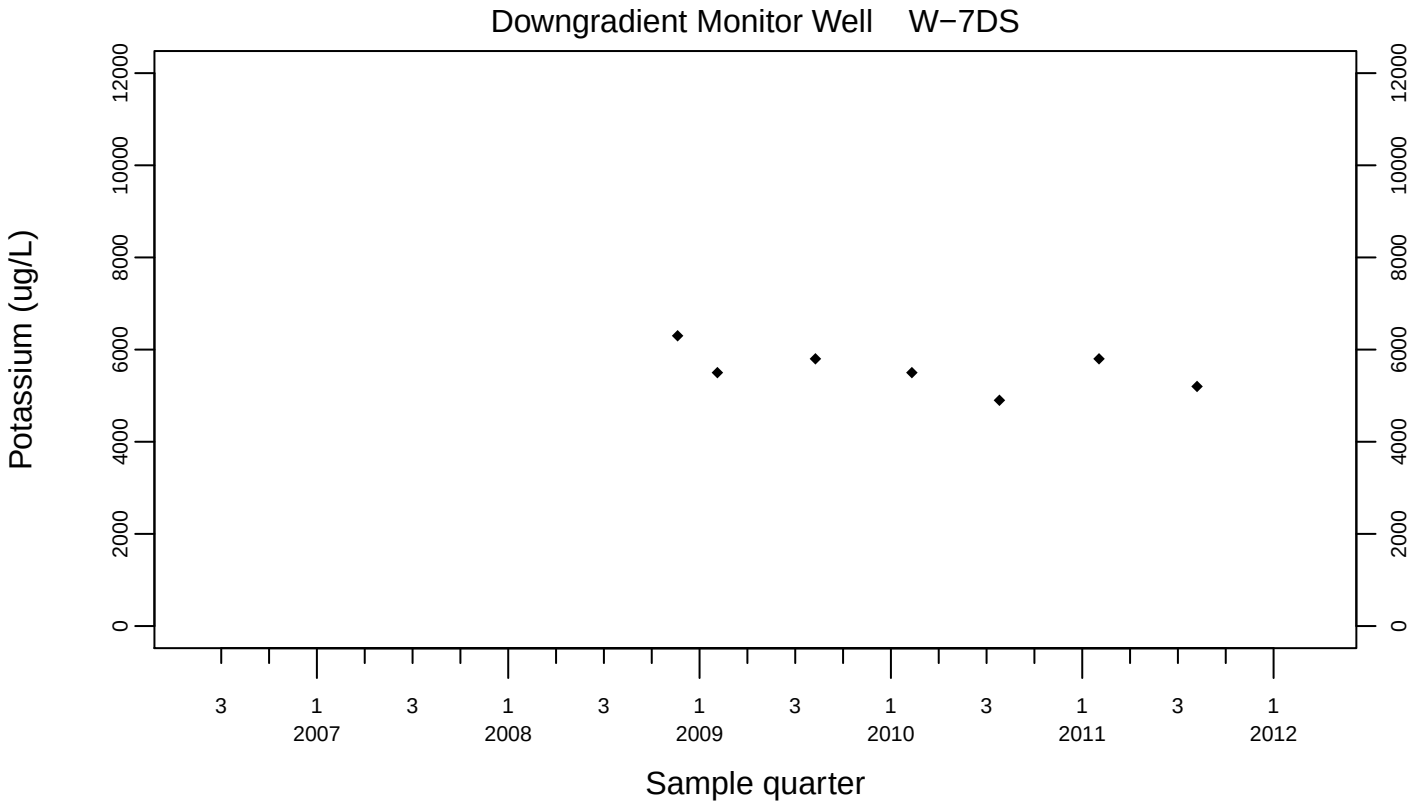

Downgradient Monitor Well W−26R−05
Nickel (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

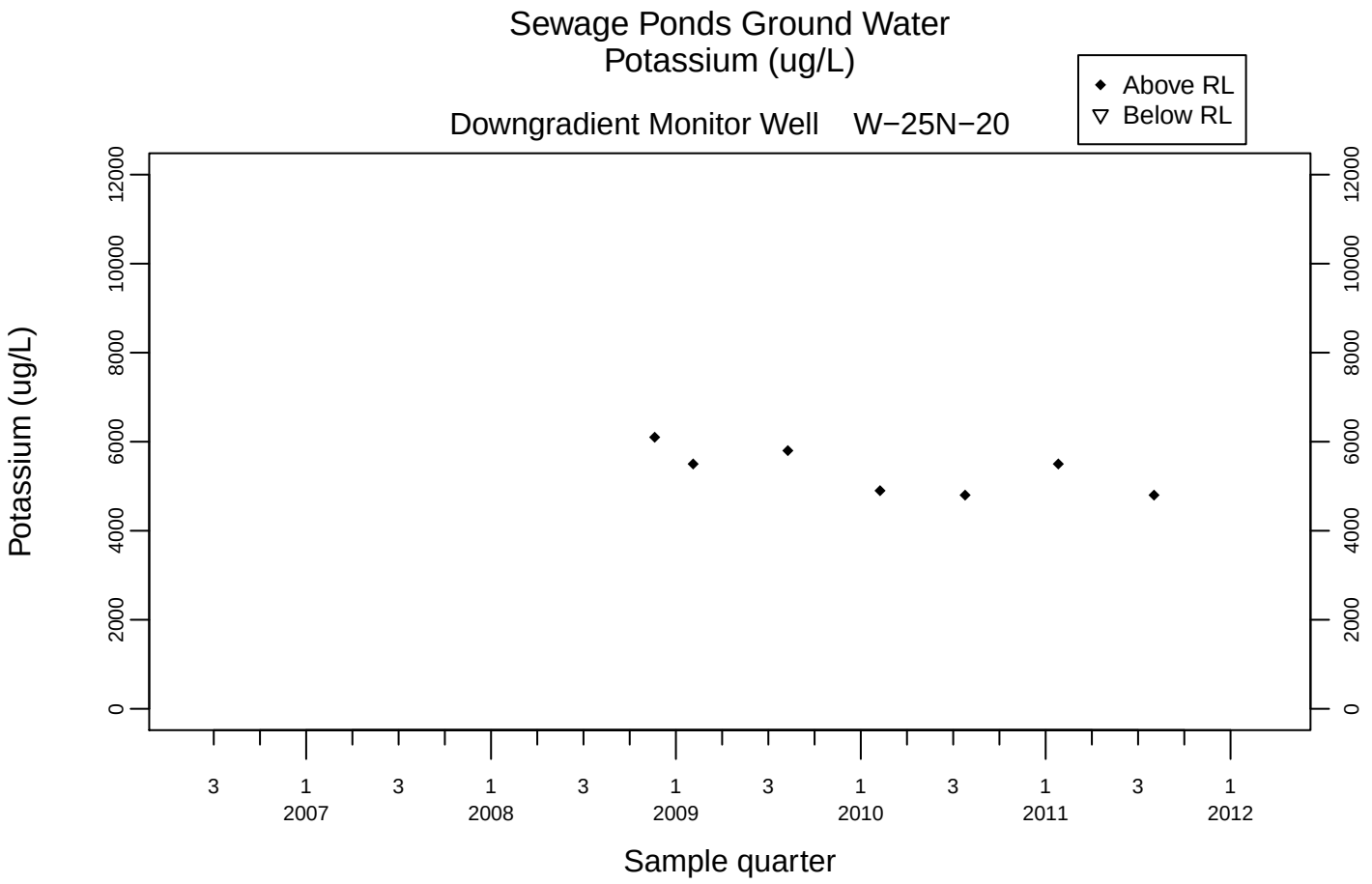

Sewage Ponds Ground Water
Nickel (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Estimated
Nickel (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

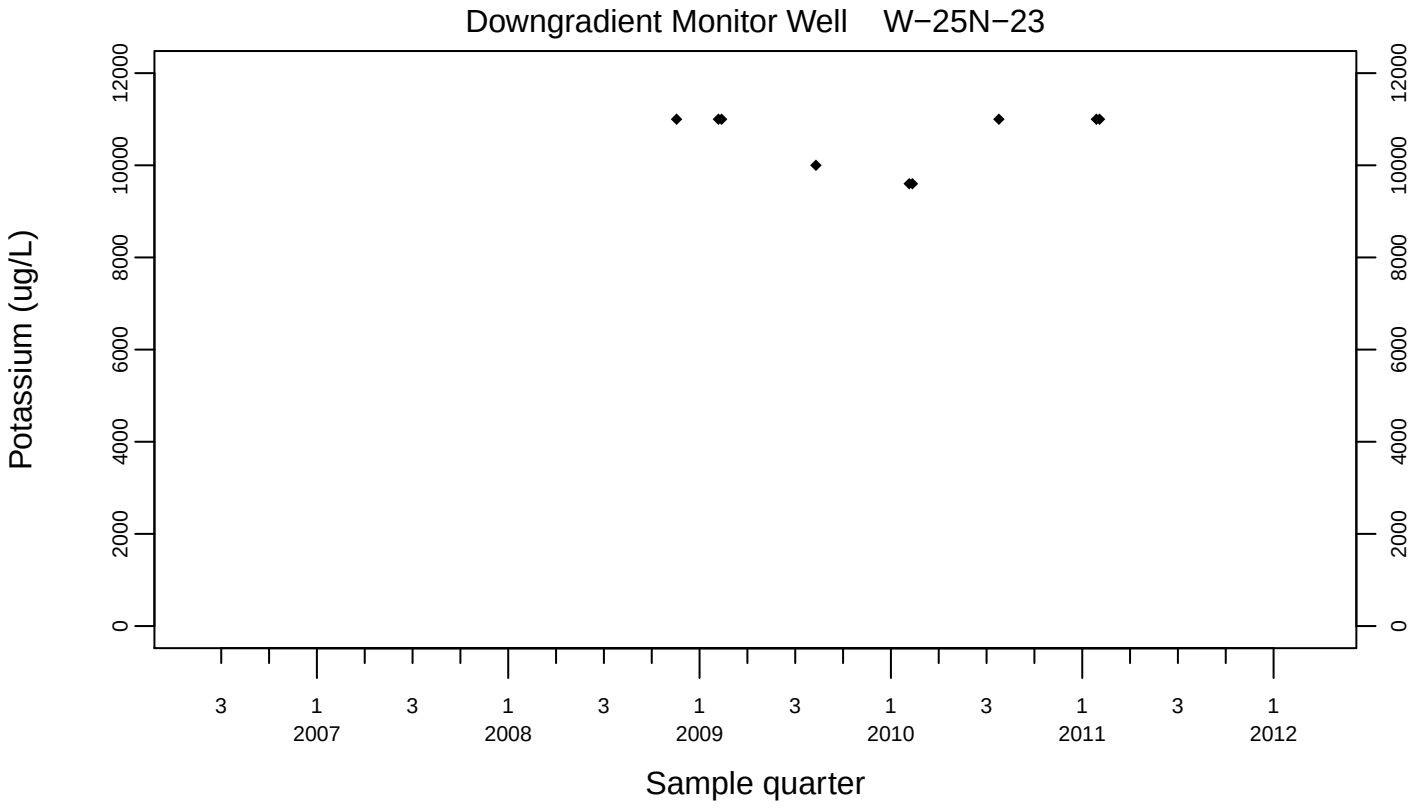

Sewage Ponds Ground Water
Potassium (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

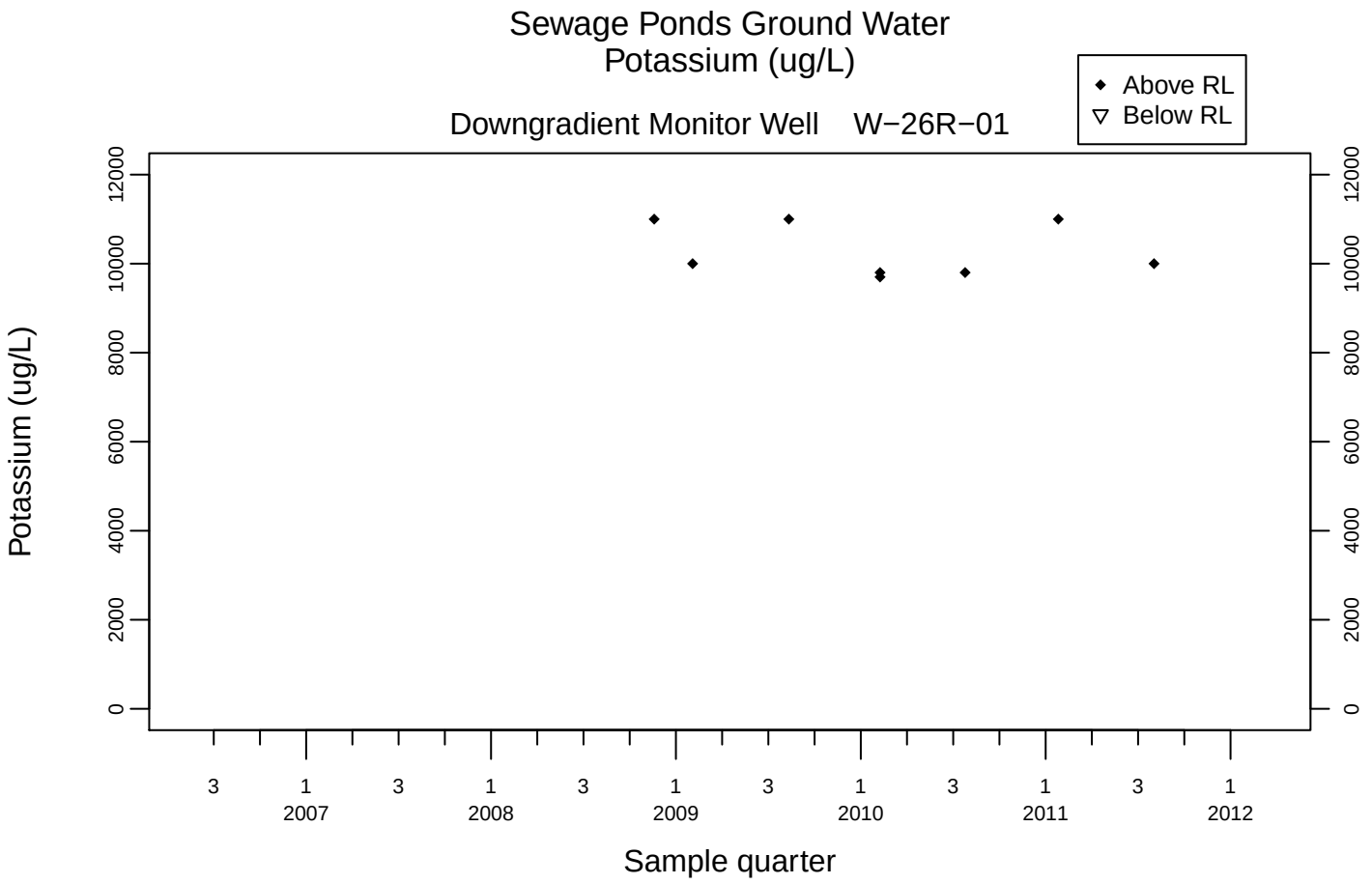

Upgradient Monitor Well W−7PS
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

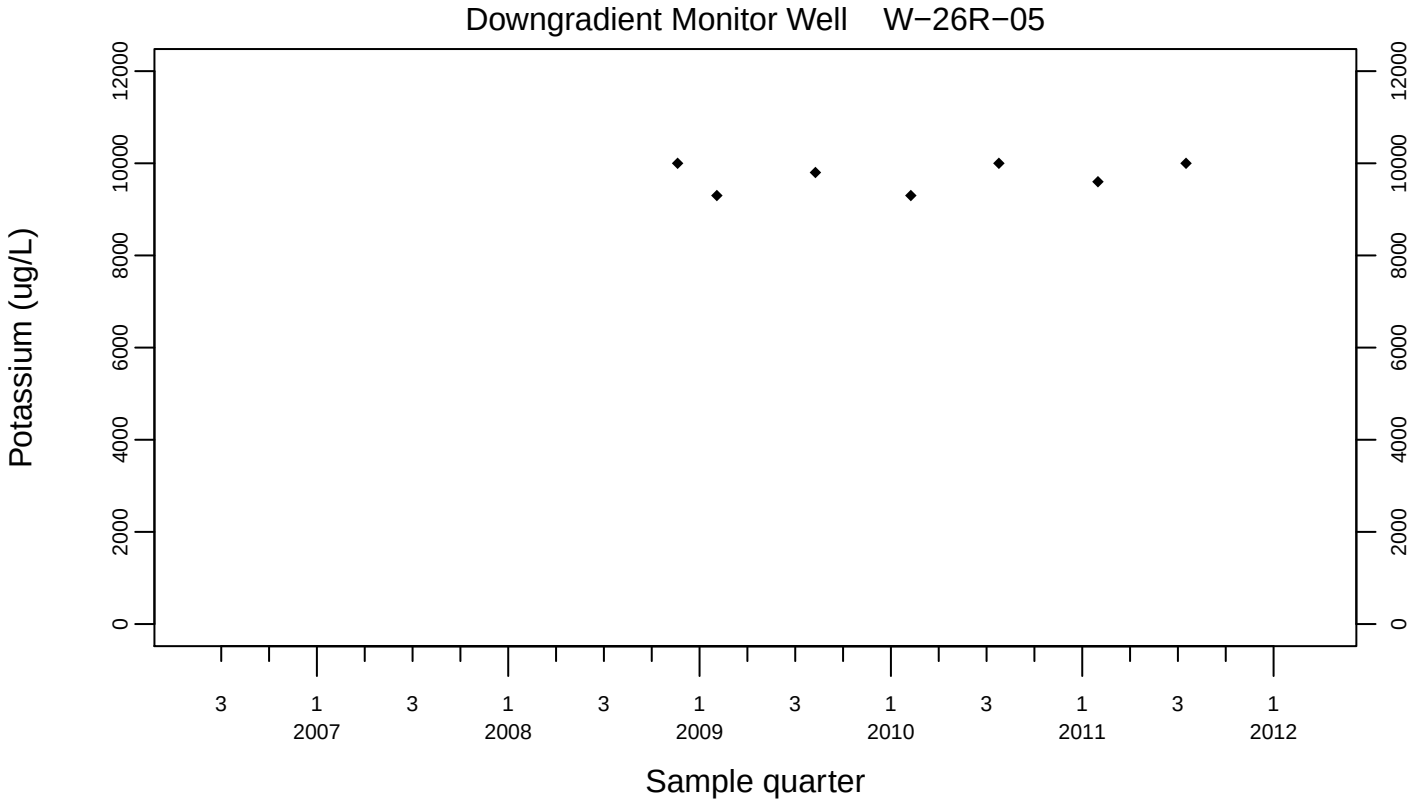

Sewage Ponds Ground Water
Potassium (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

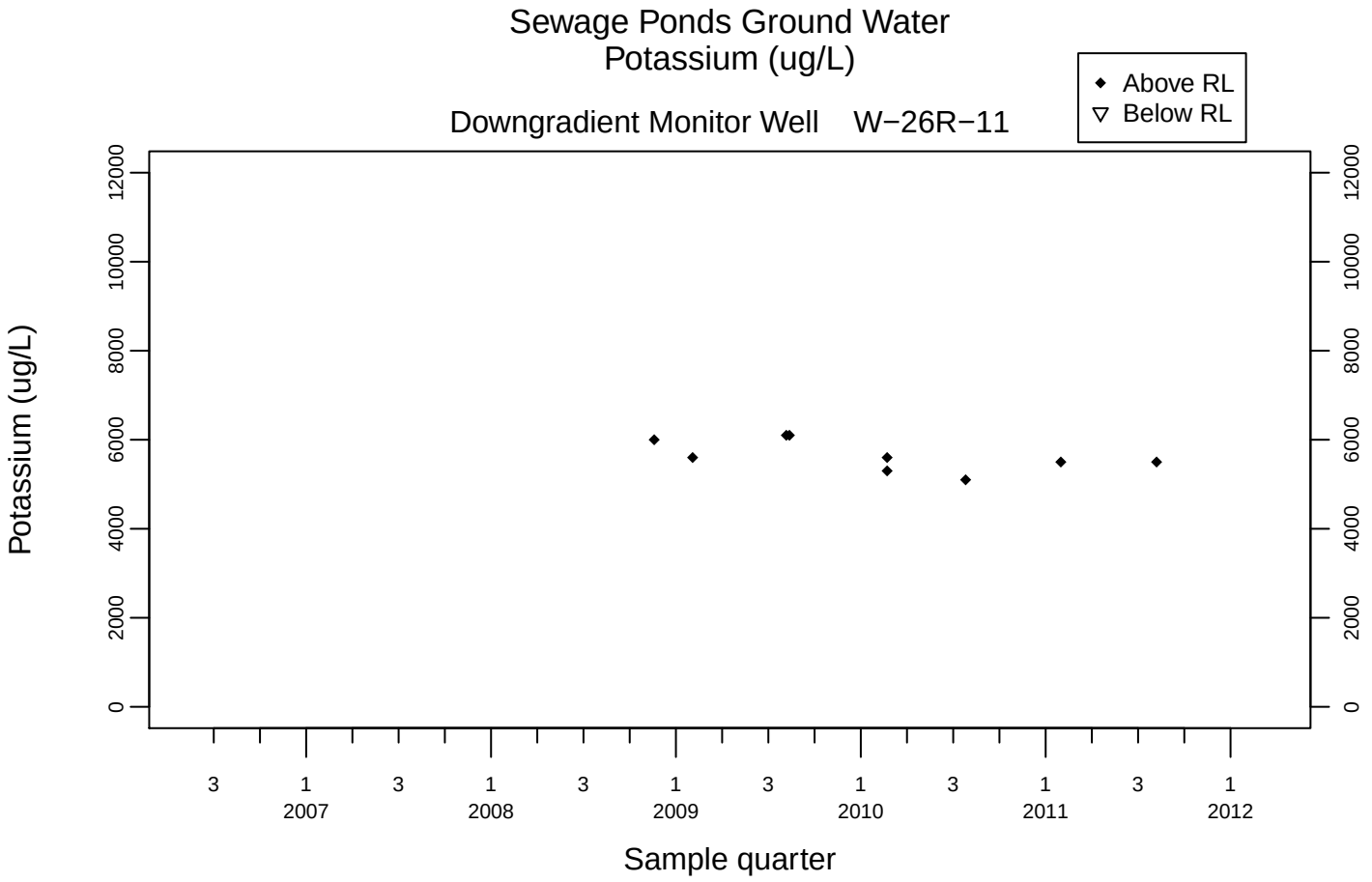

Downgradient Monitor Well W−7DS
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

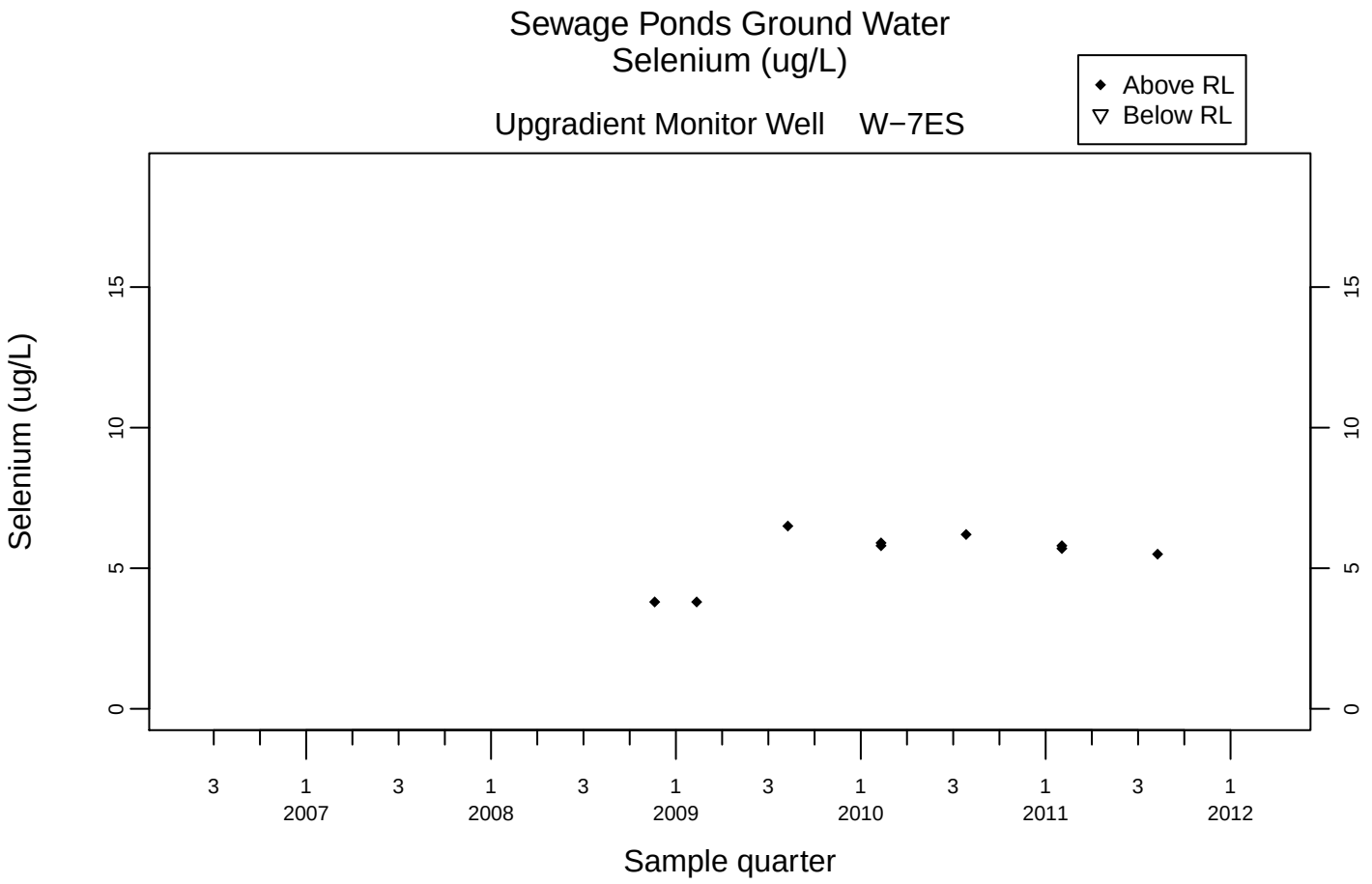

Sewage Ponds Ground Water
Potassium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

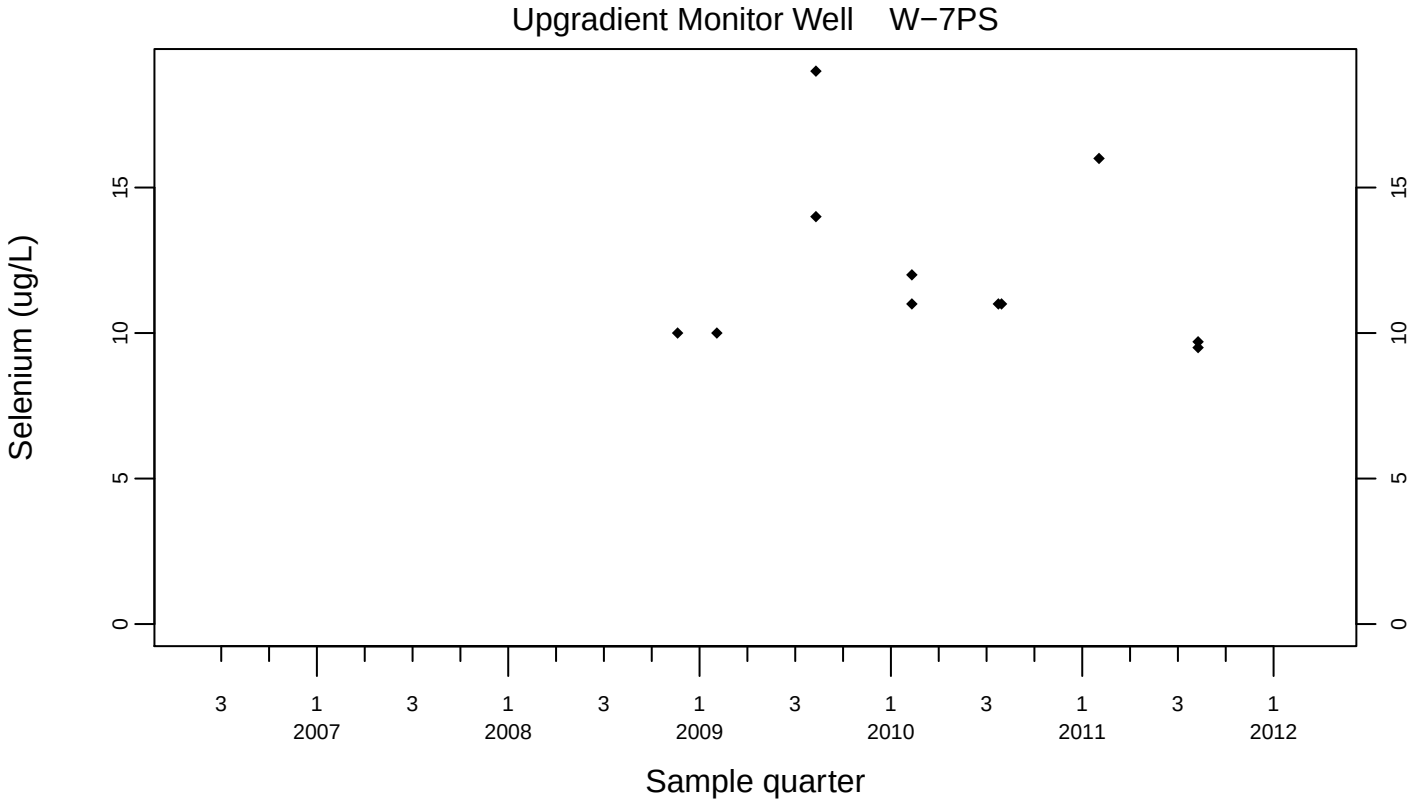

Downgradient Monitor Well W−25N−23
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

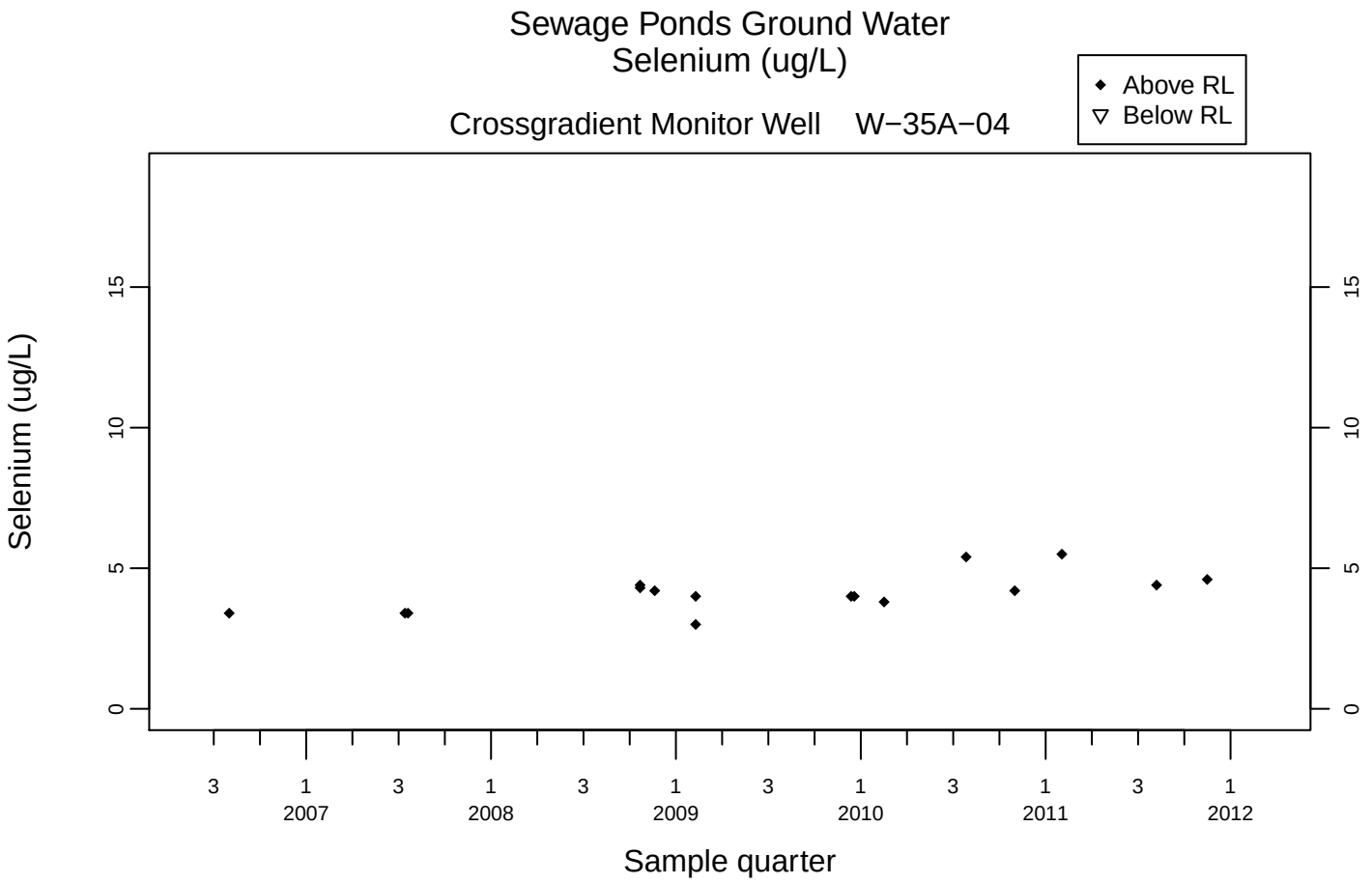

Sewage Ponds Ground Water
Potassium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

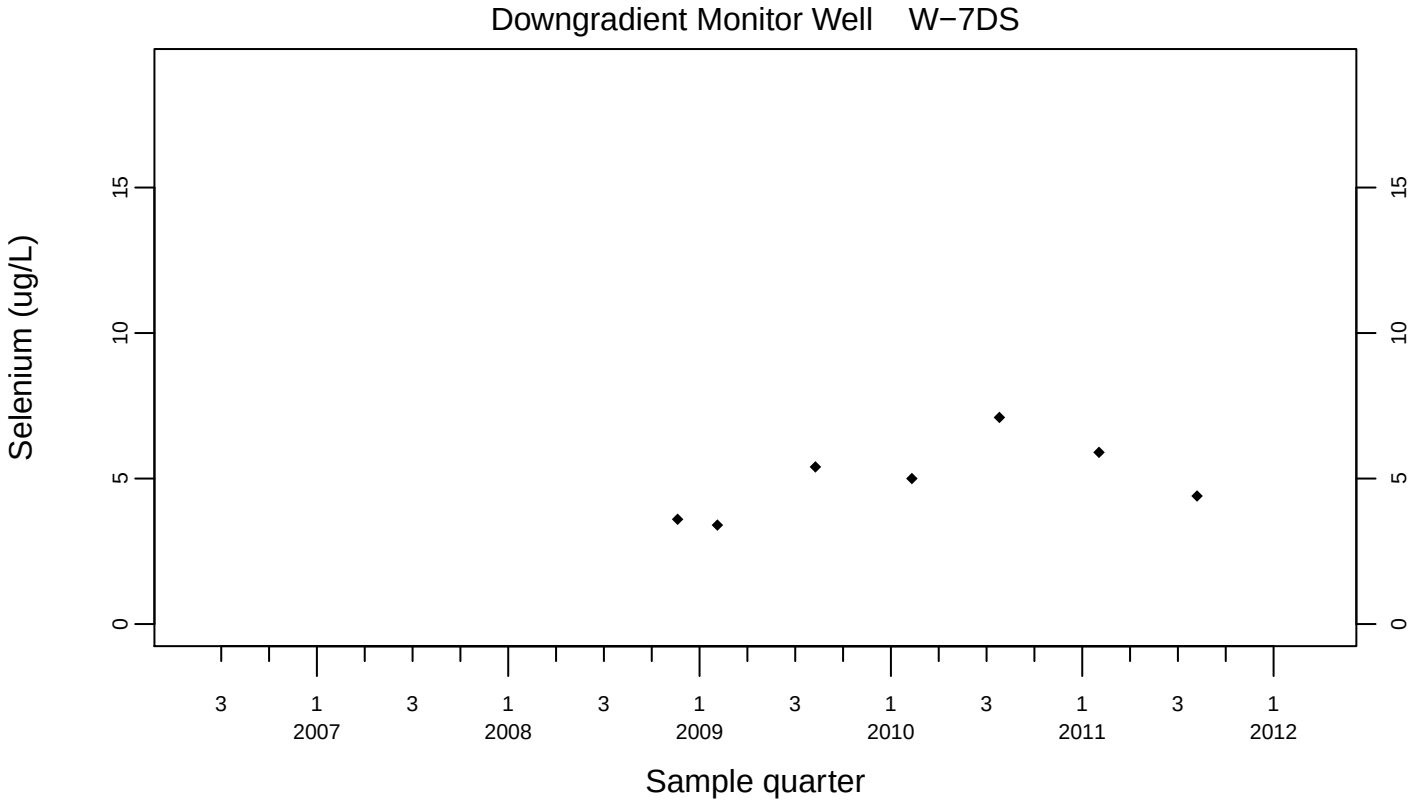

Downgradient Monitor Well W−26R−05
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

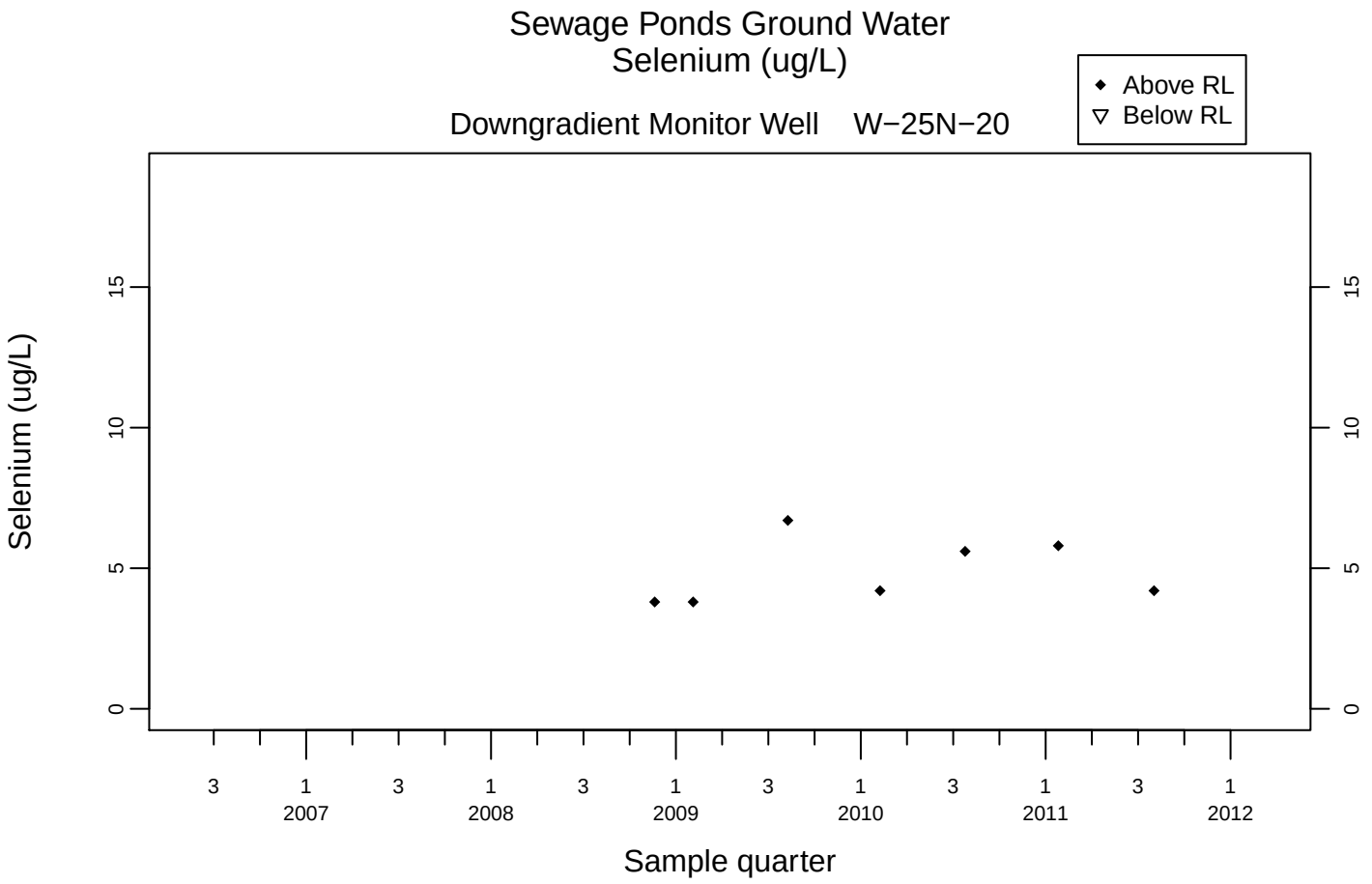

Sewage Ponds Ground Water
Potassium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

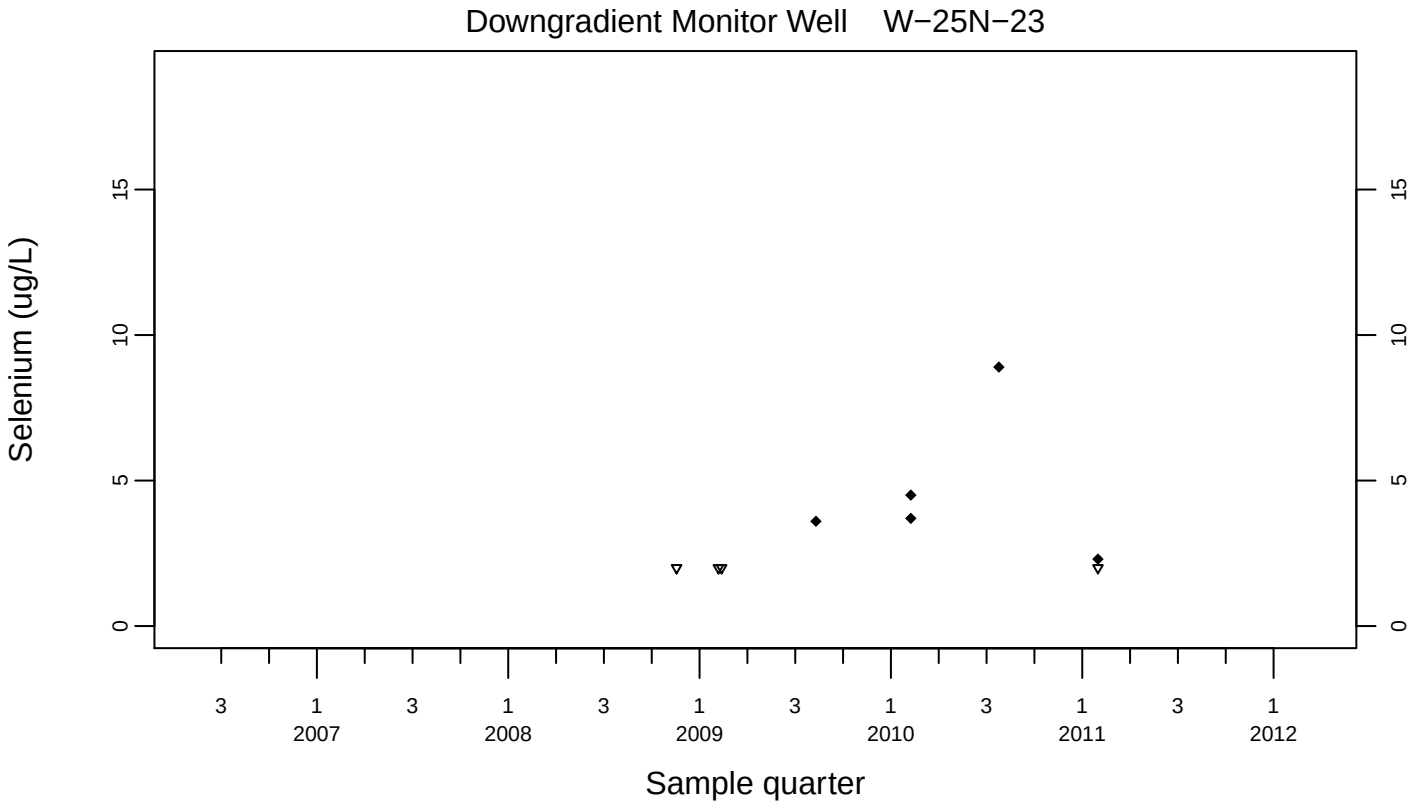

Sewage Ponds Ground Water
Selenium (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Selenium (ug/L)
0
5
10
15
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

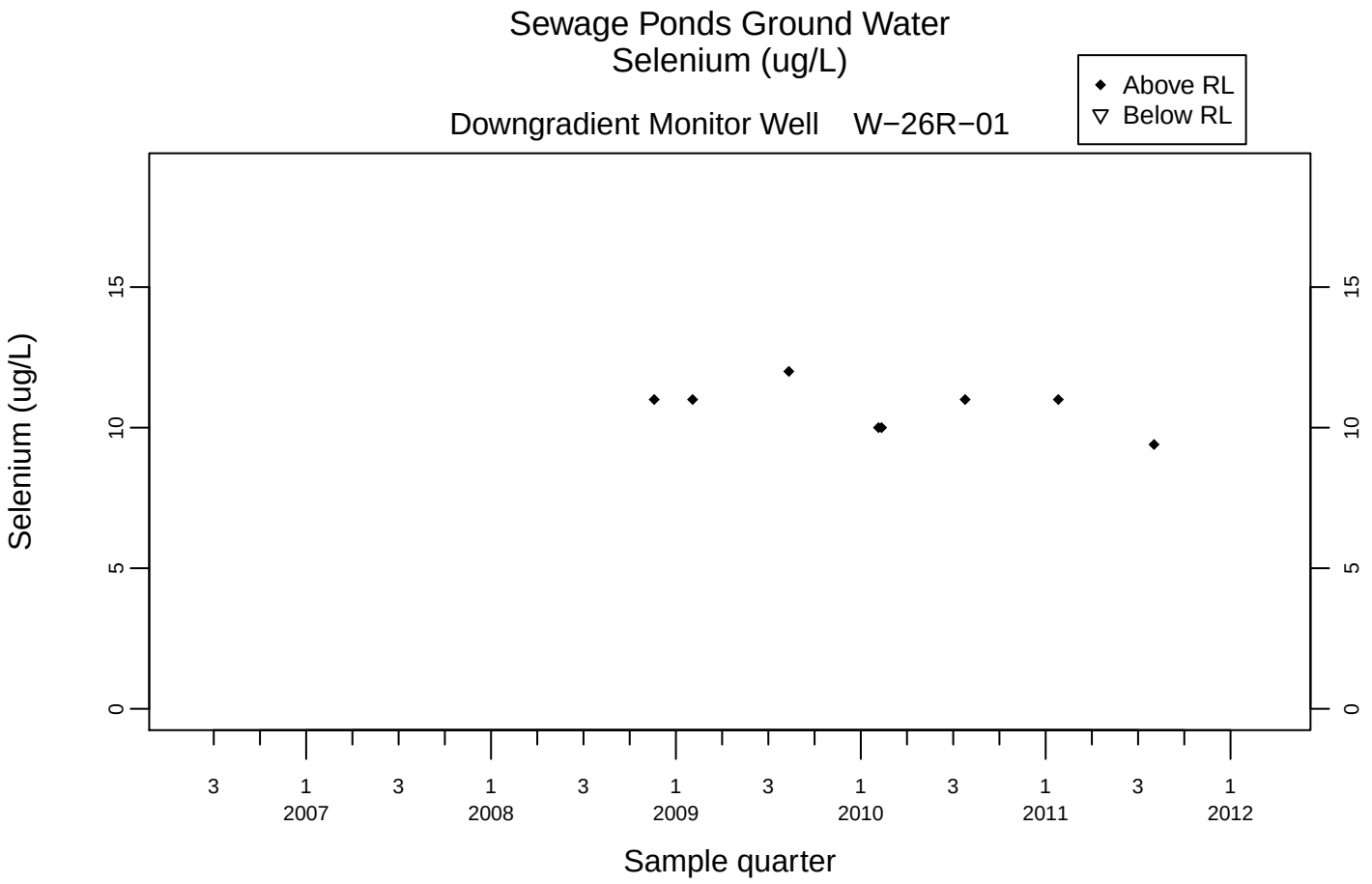

Upgradient Monitor Well W−7PS
Selenium (ug/L)
0
5
10
15
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

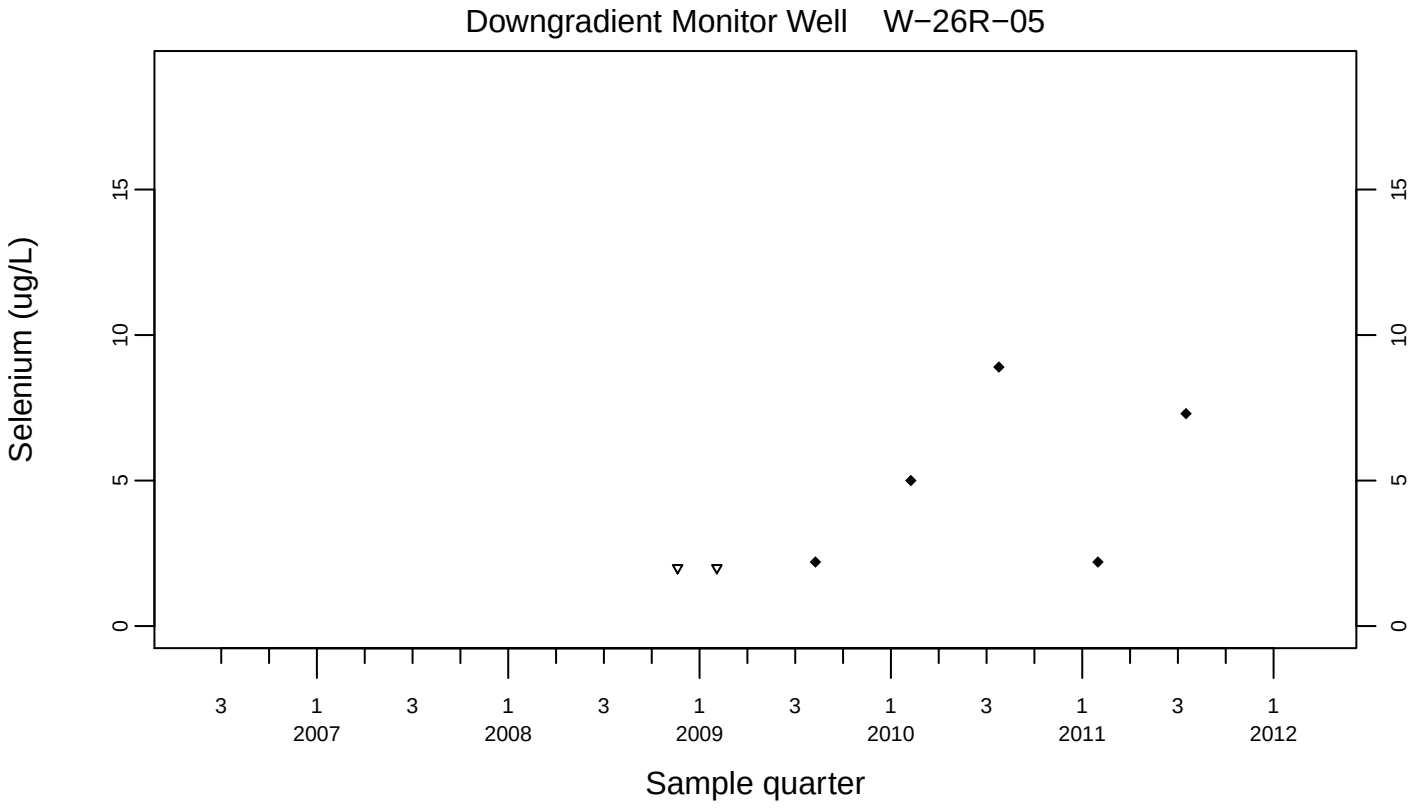

Sewage Ponds Ground Water
Selenium (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Selenium (ug/L)
0
5
10
15
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

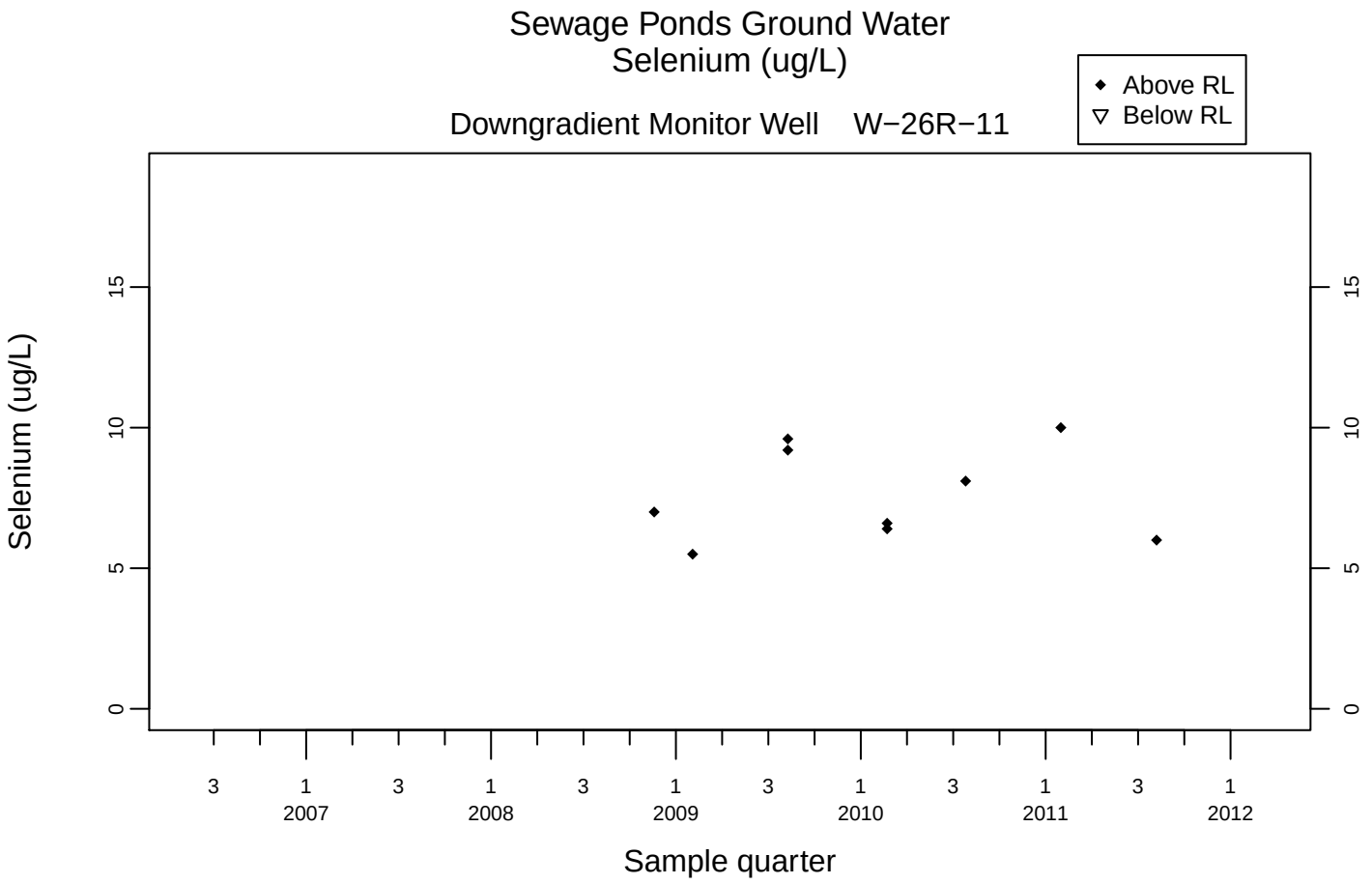

Downgradient Monitor Well W−7DS
Selenium (ug/L)
0
5
10
15
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

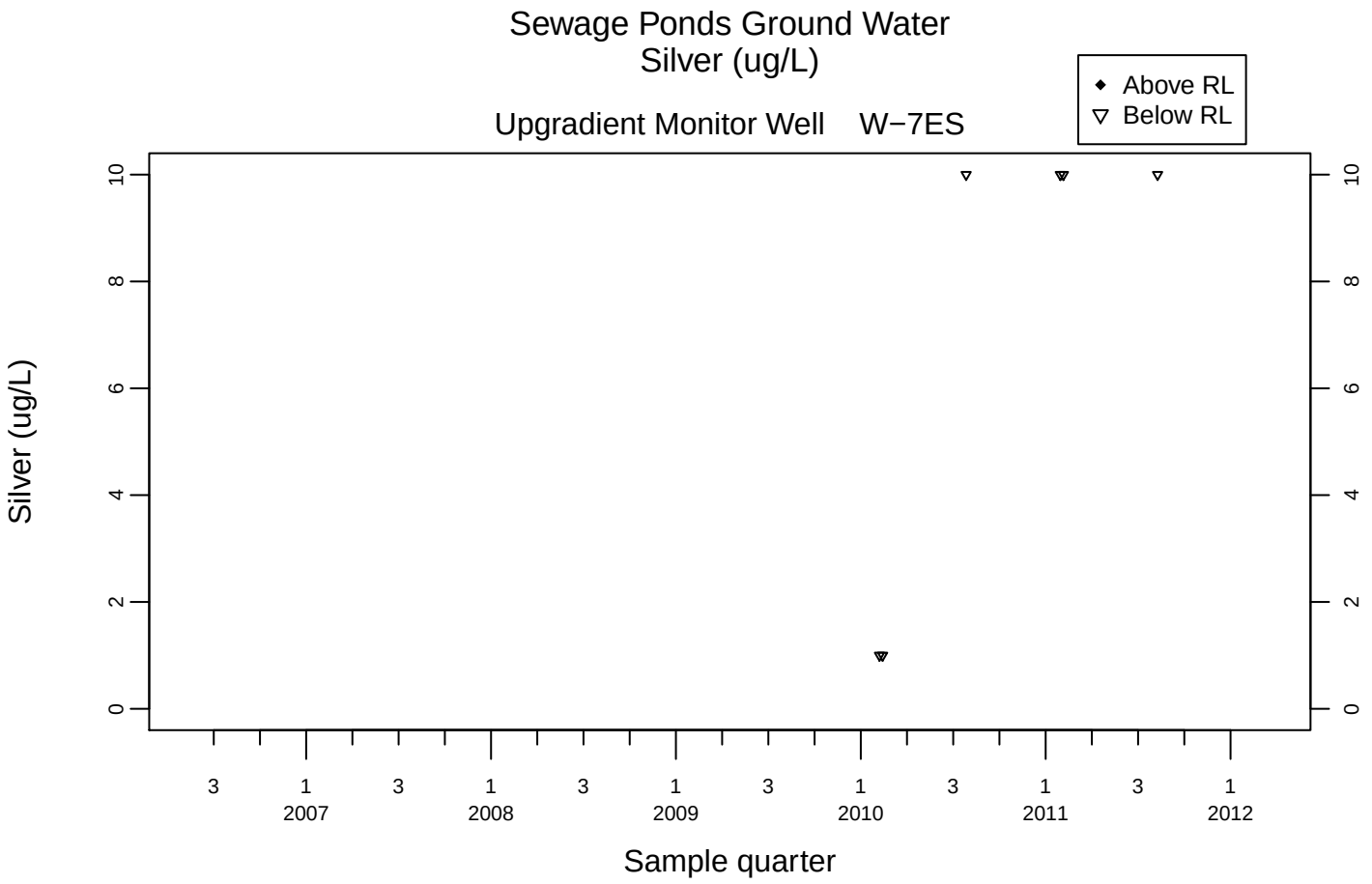

Sewage Ponds Ground Water
Selenium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Selenium (ug/L)
0
5
10
15
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

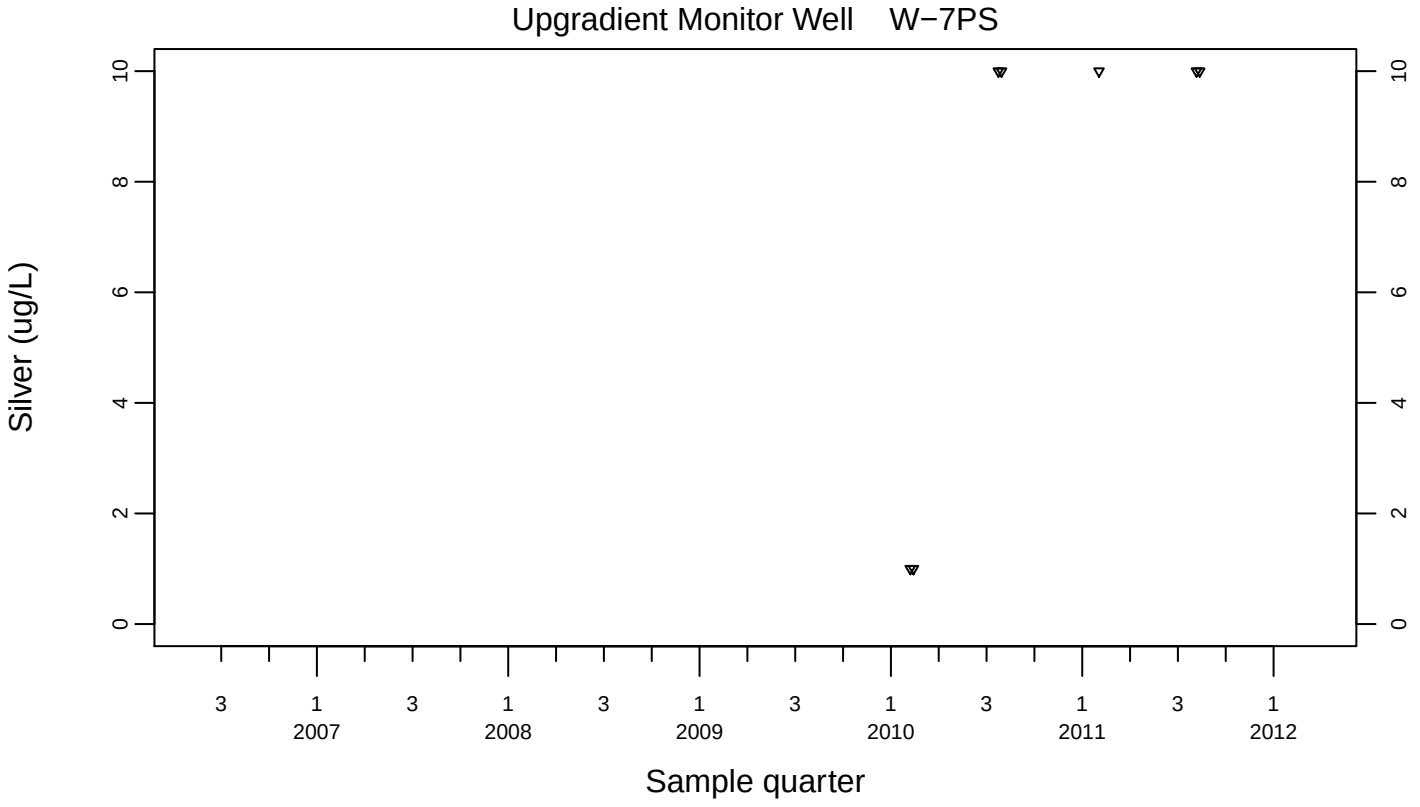

Downgradient Monitor Well W−25N−23
Selenium (ug/L)
0
5
10
15
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

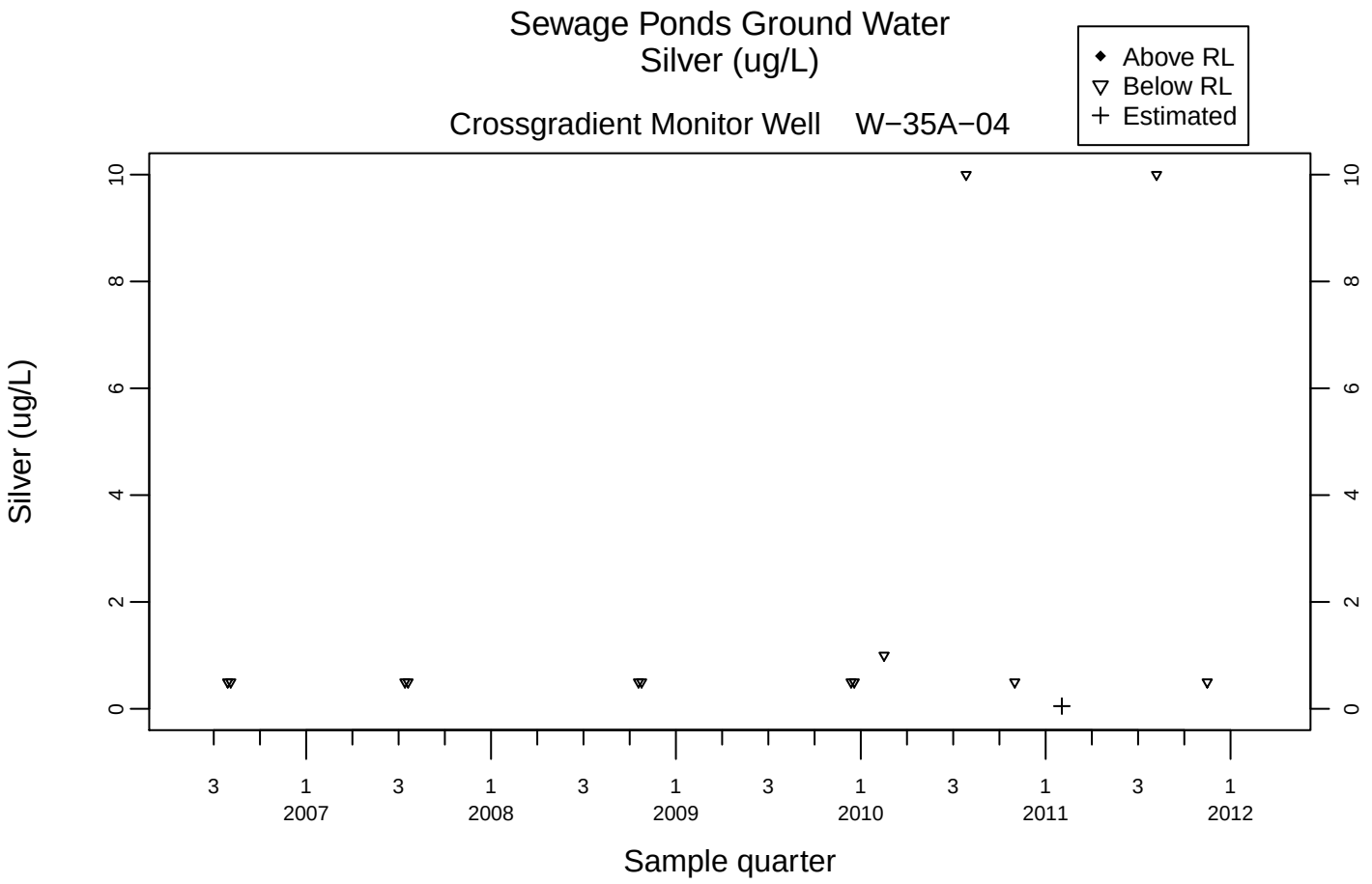

Sewage Ponds Ground Water
Selenium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Selenium (ug/L)
0
5
10
15
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

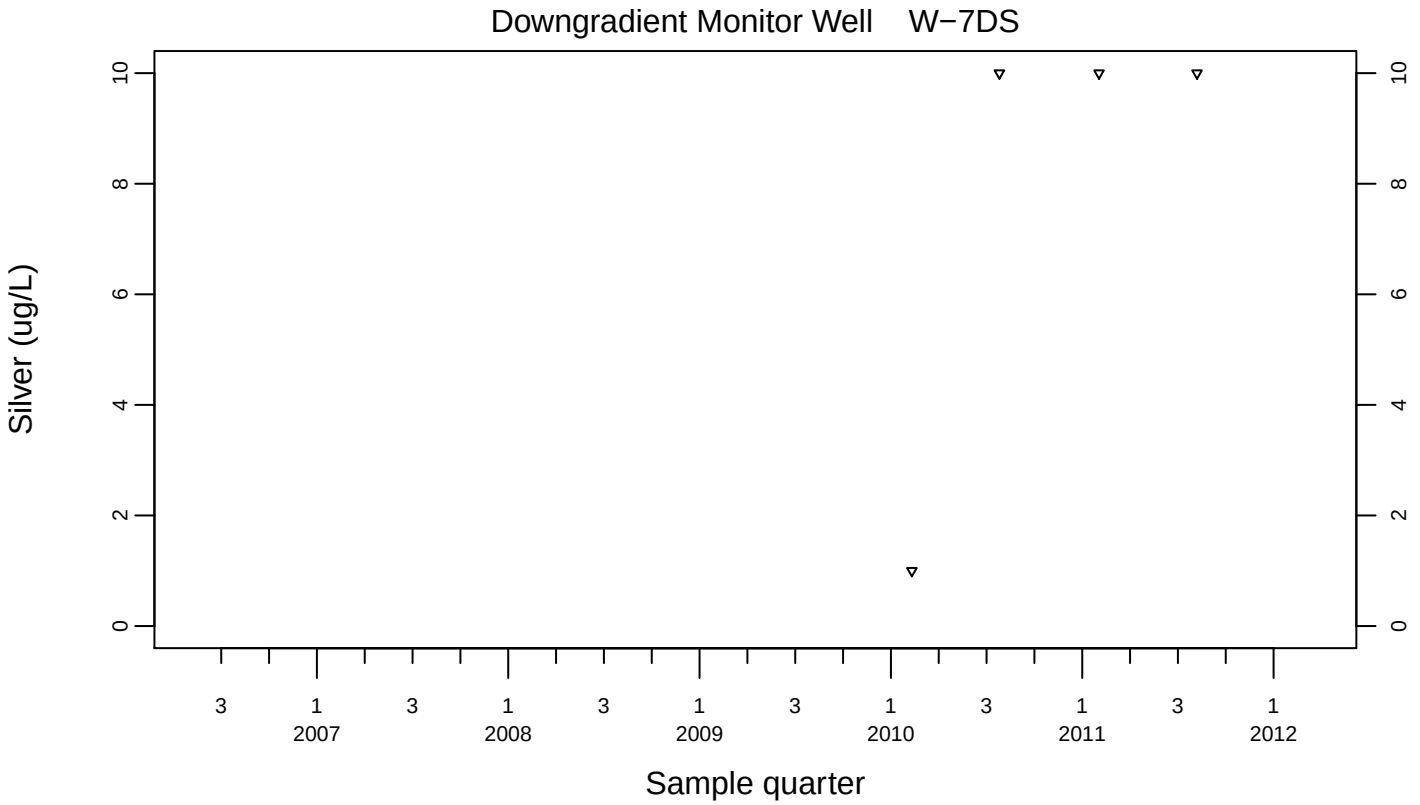

Downgradient Monitor Well W−26R−05
Selenium (ug/L)
0
5
10
15
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

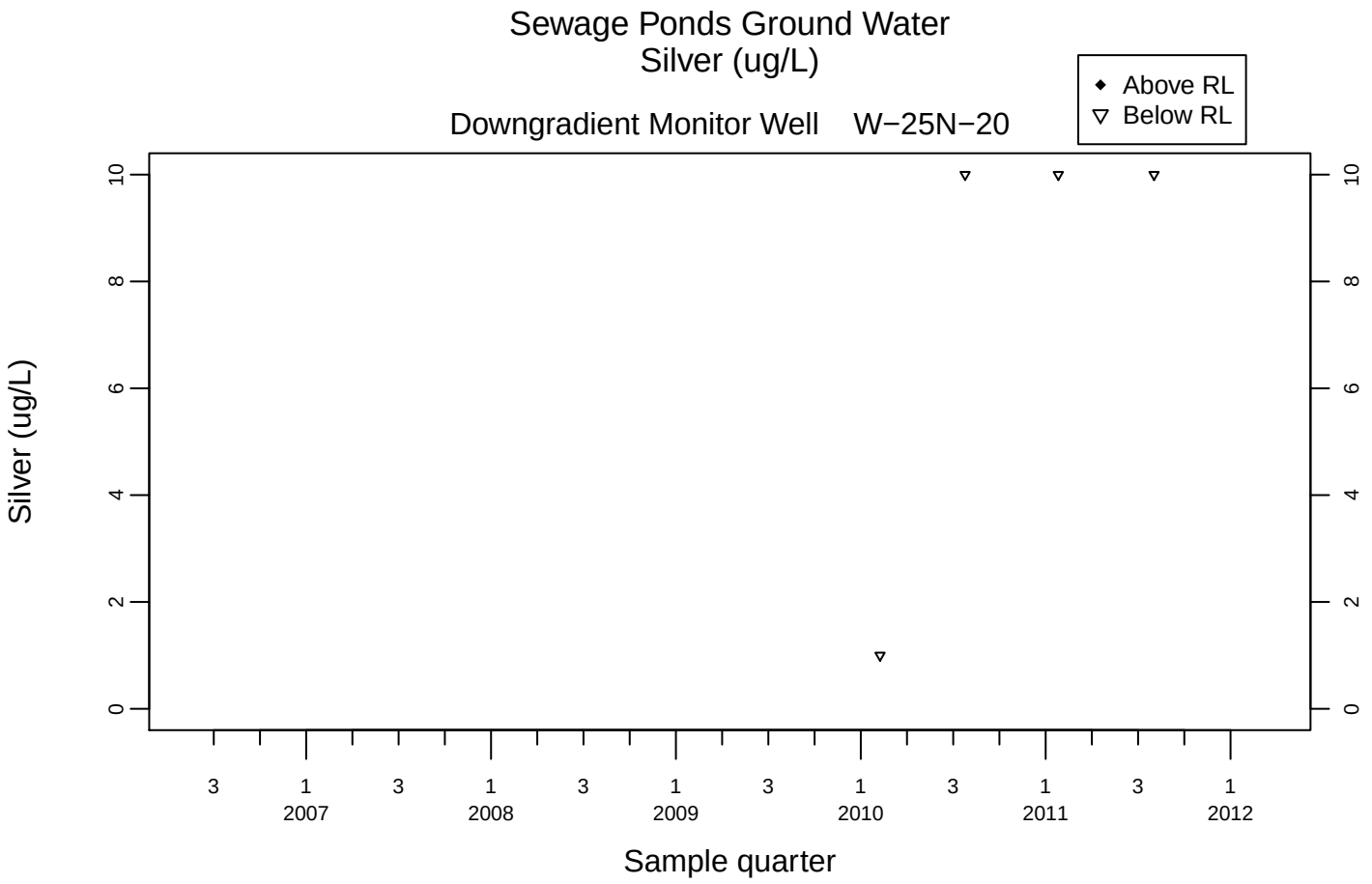

Sewage Ponds Ground Water
Selenium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Selenium (ug/L)
0
5
10
15
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

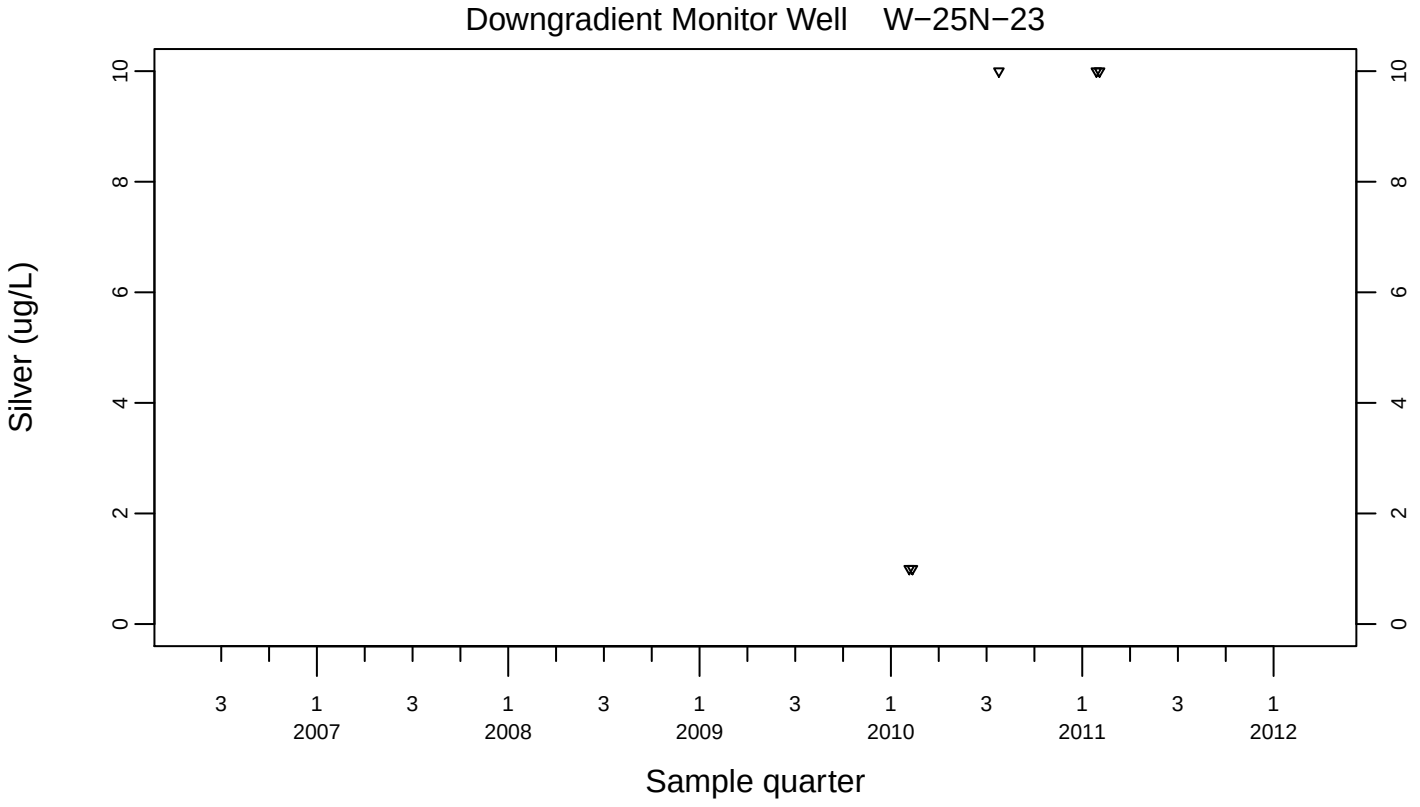

Sewage Ponds Ground Water
Silver (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

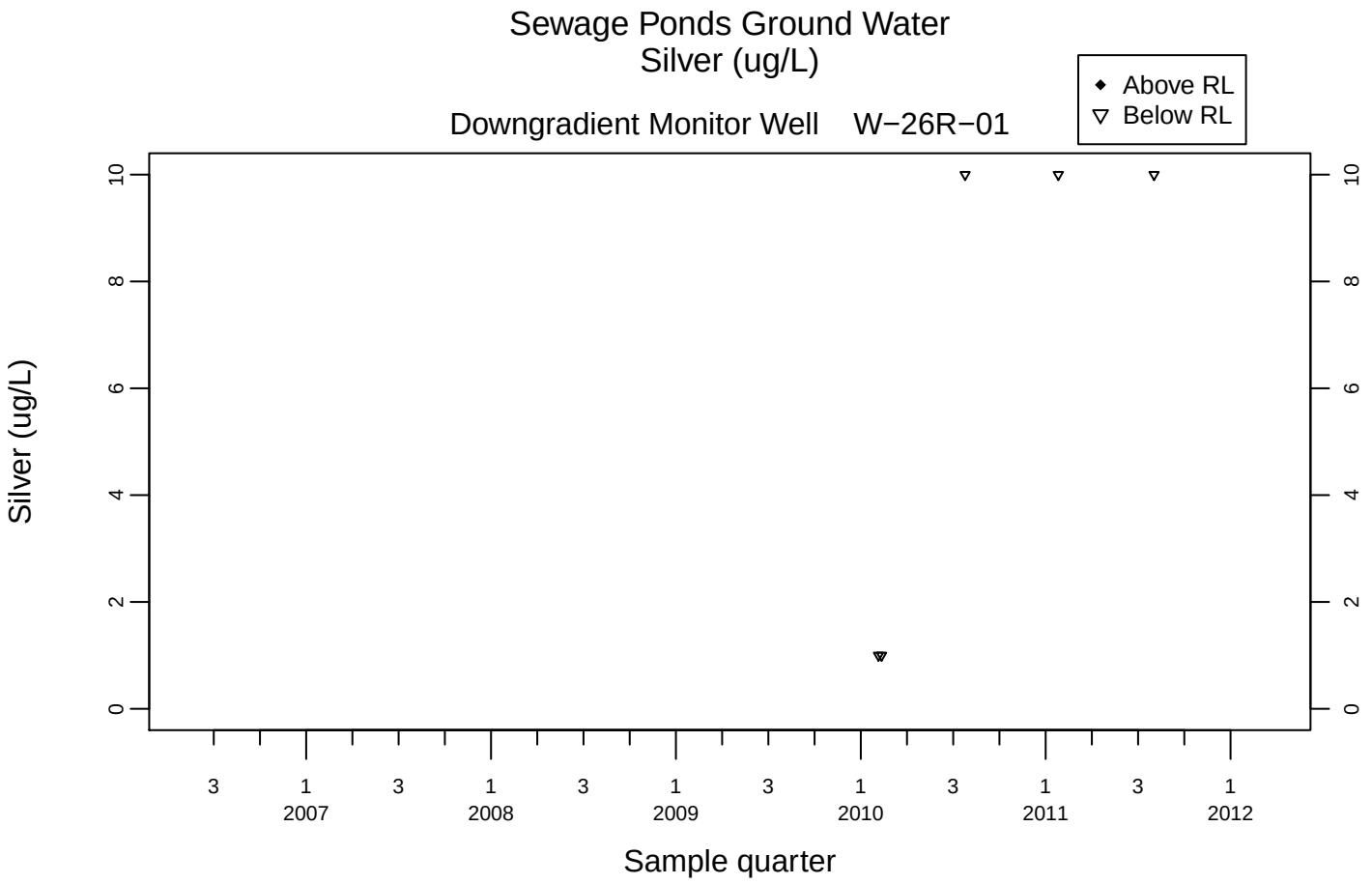

Upgradient Monitor Well W−7PS
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

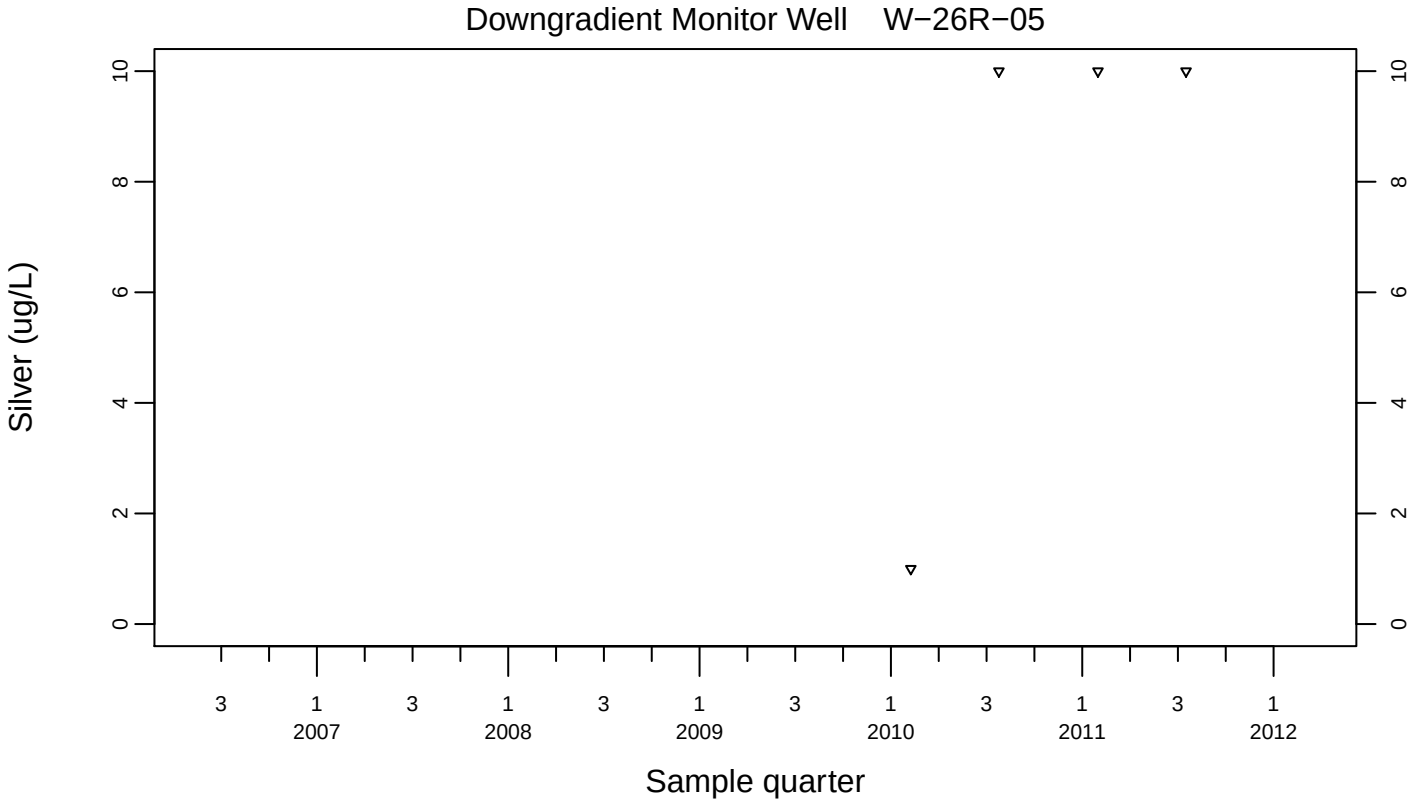

Sewage Ponds Ground Water
Silver (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

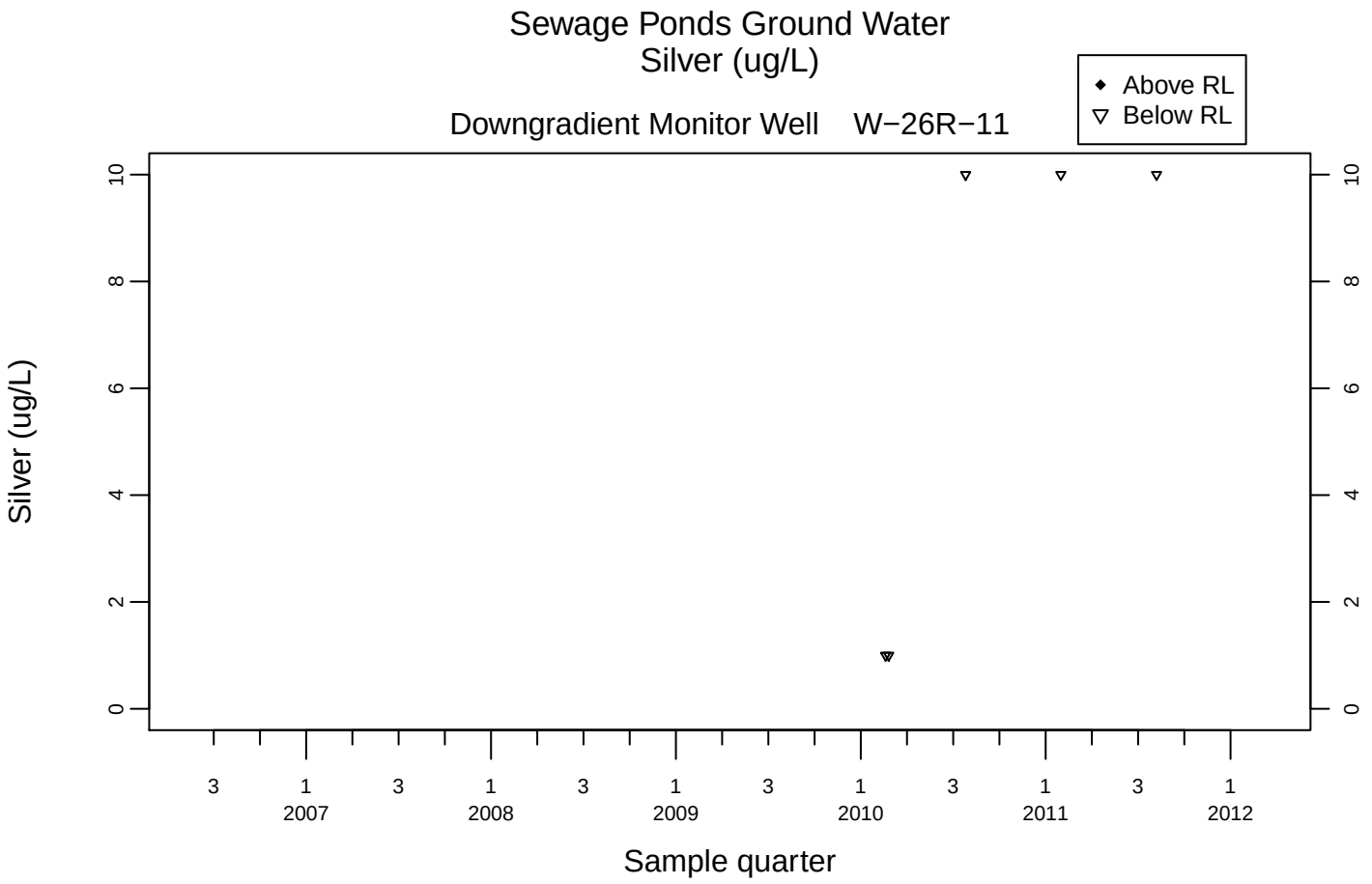

Downgradient Monitor Well W−7DS
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

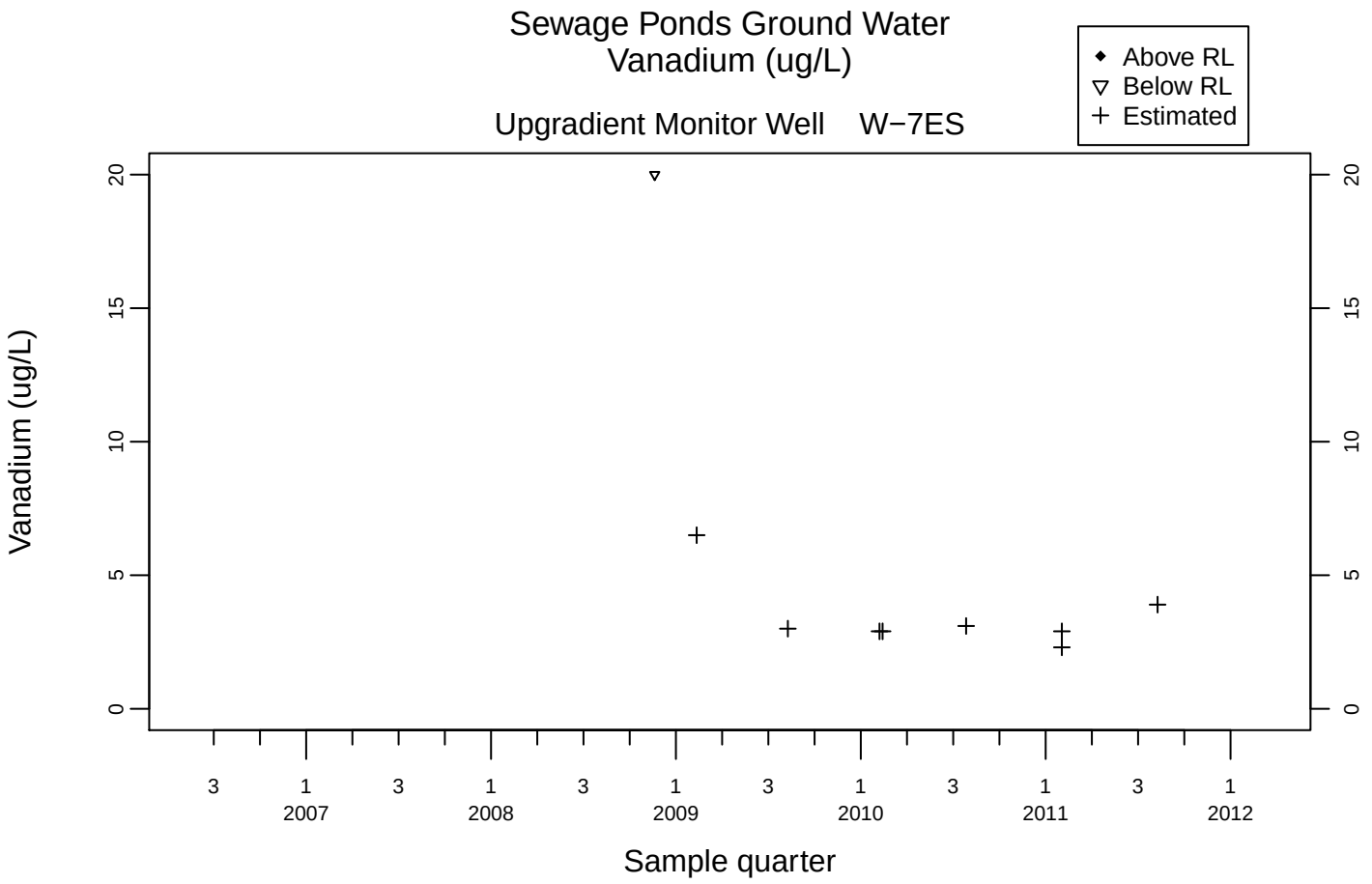

Sewage Ponds Ground Water
Silver (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

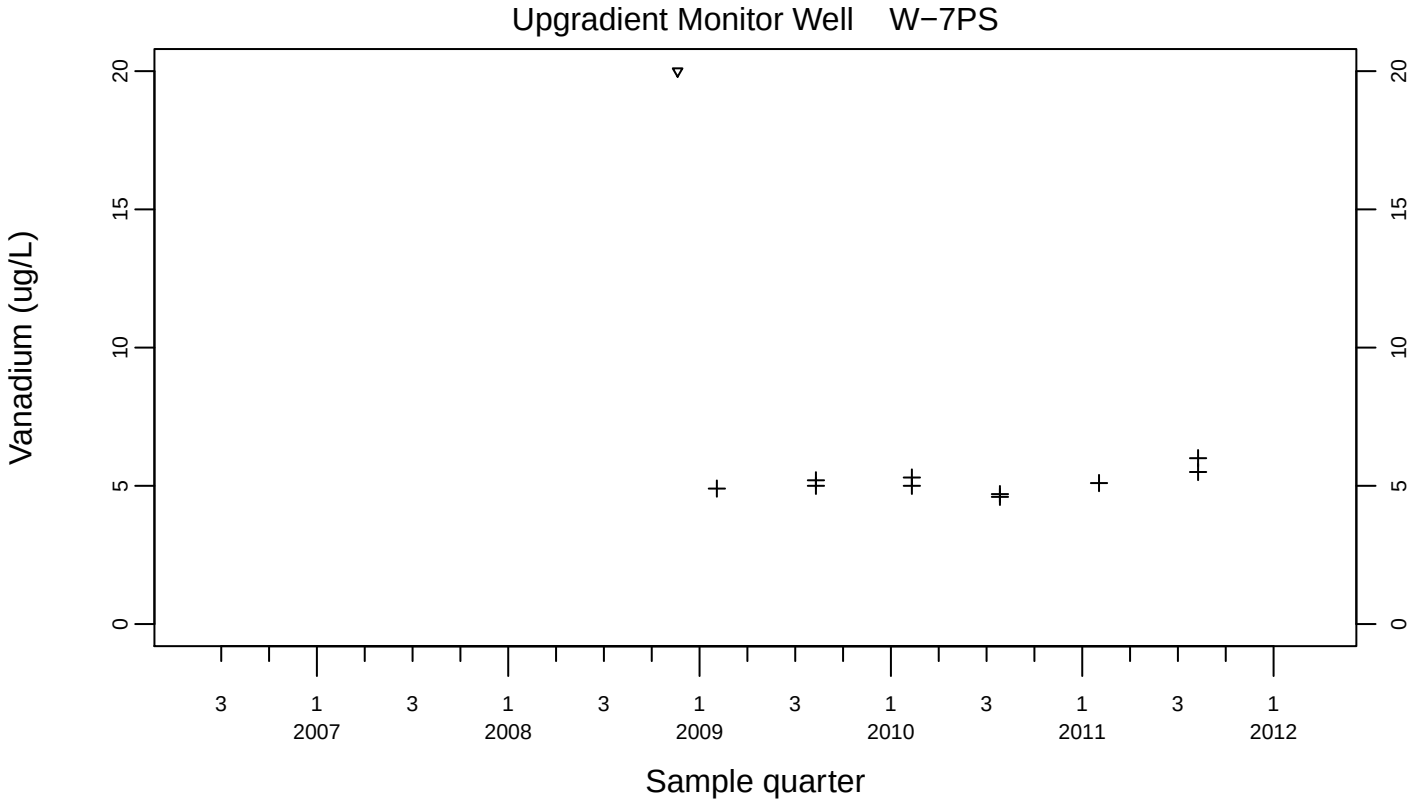

Downgradient Monitor Well W−25N−23
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

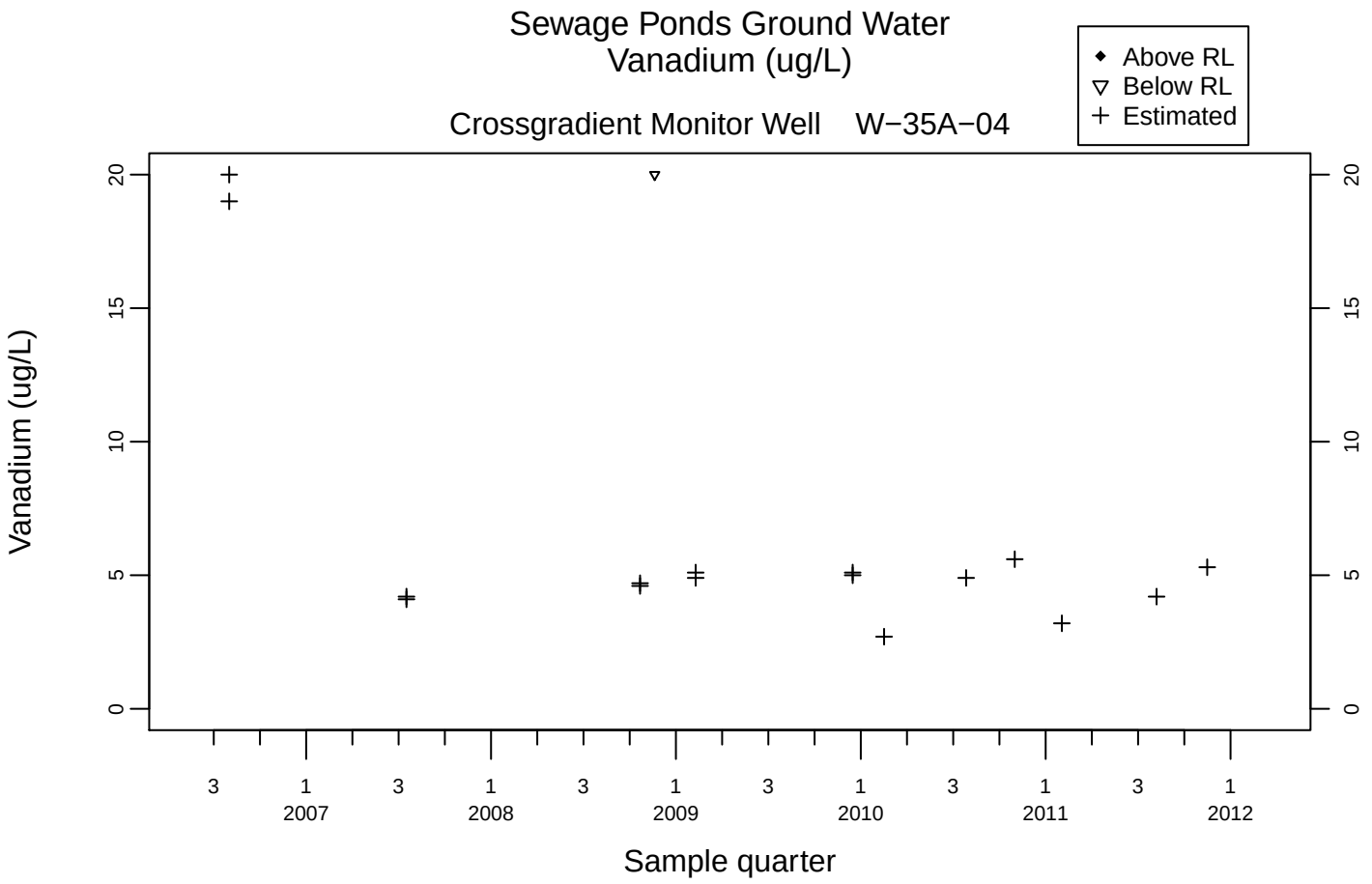

Sewage Ponds Ground Water
Silver (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

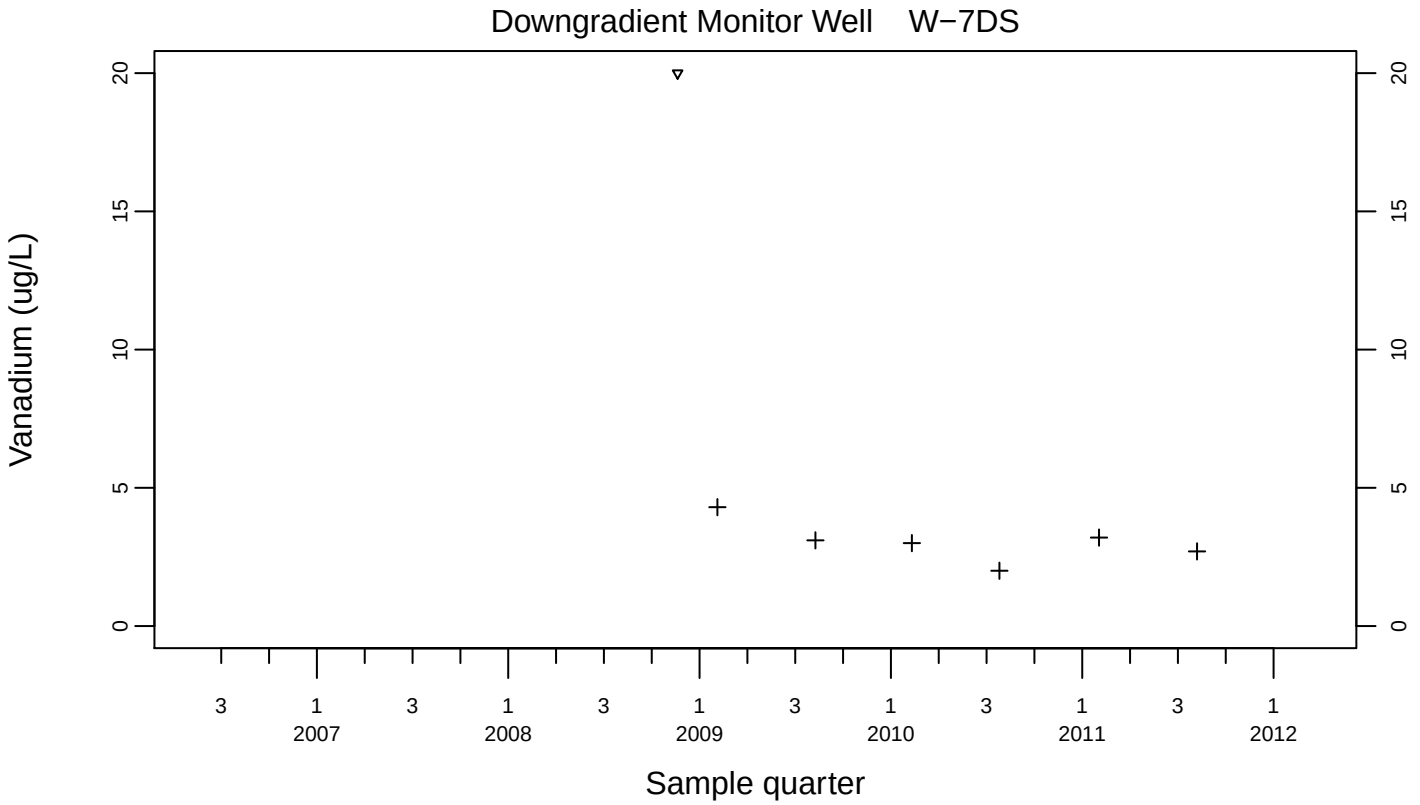

Downgradient Monitor Well W−26R−05
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

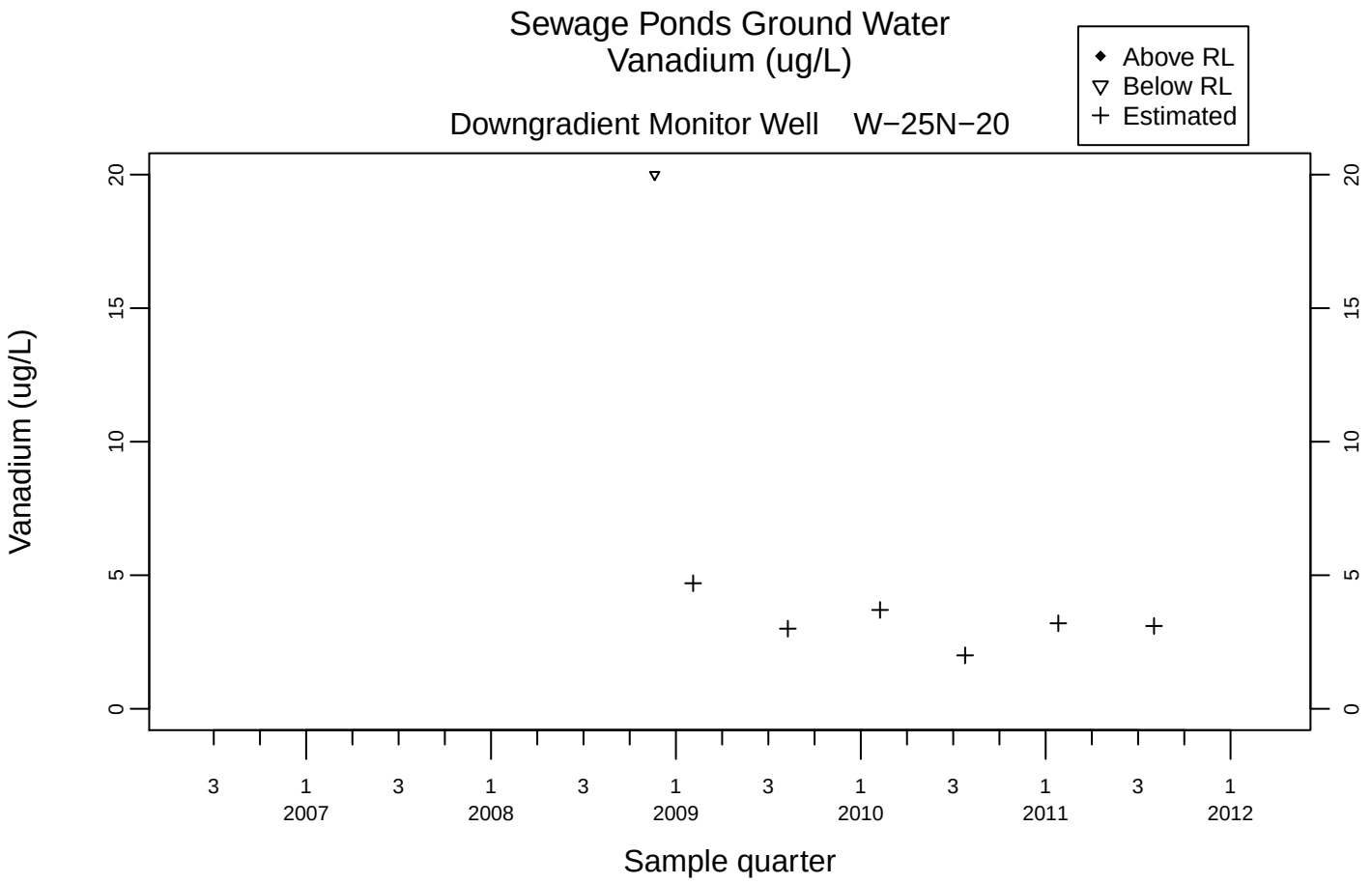

Sewage Ponds Ground Water
Silver (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

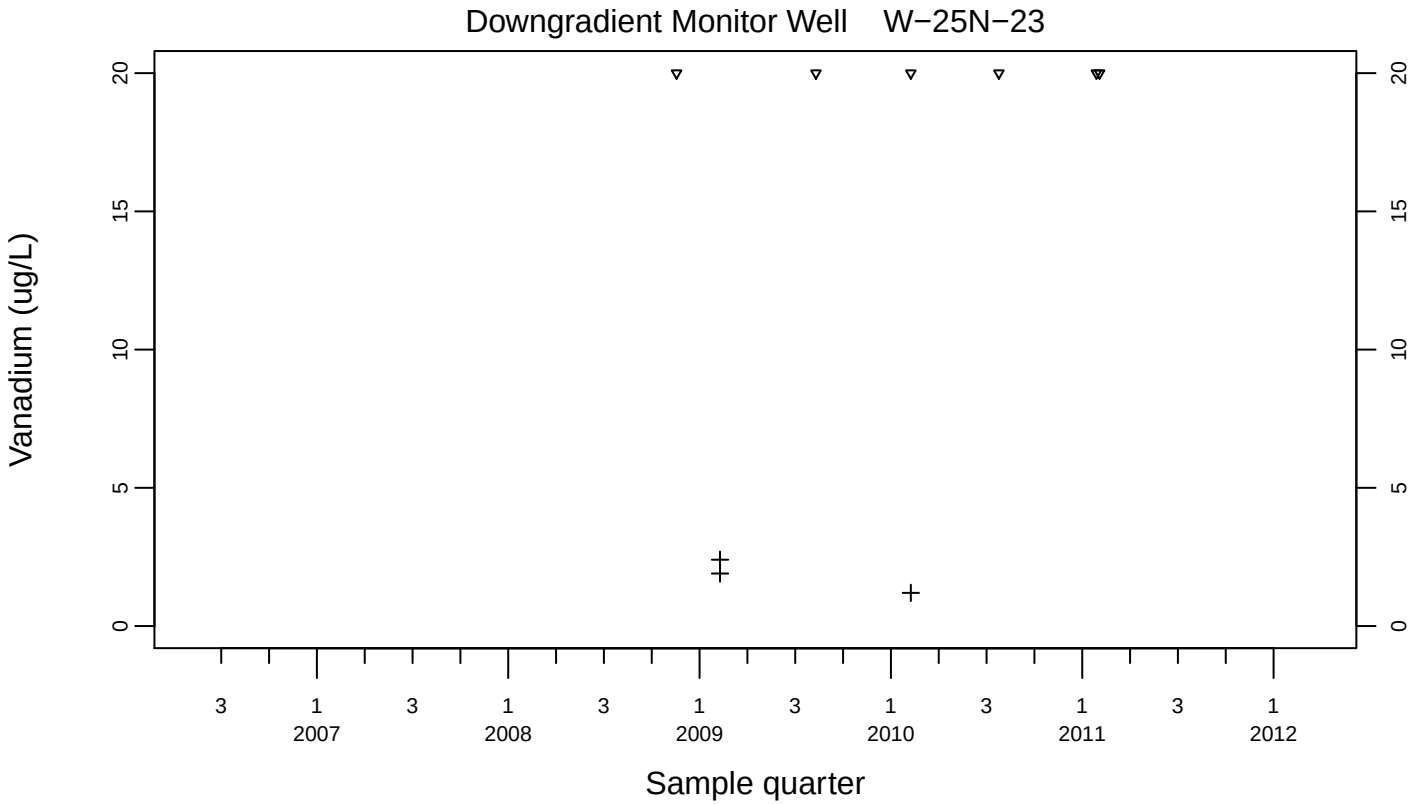

Sewage Ponds Ground Water
Vanadium (ug/L)
Above RL
Below RL
Estimated
Upgradient Monitor Well W−7ES
Vanadium (ug/L)
0
5
10
15
20
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

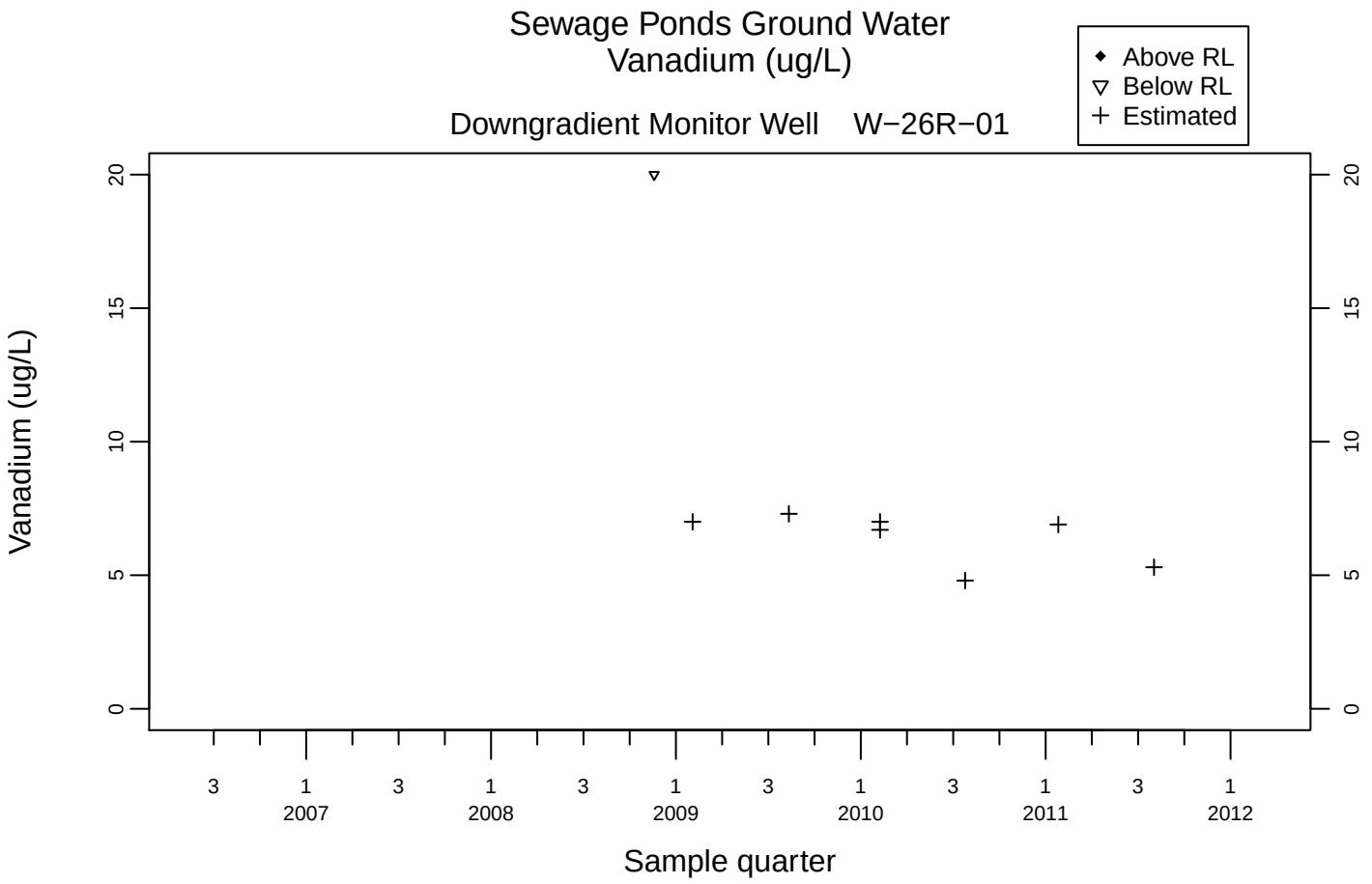

Upgradient Monitor Well W−7PS
Vanadium (ug/L)
0
5
10
15
20
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

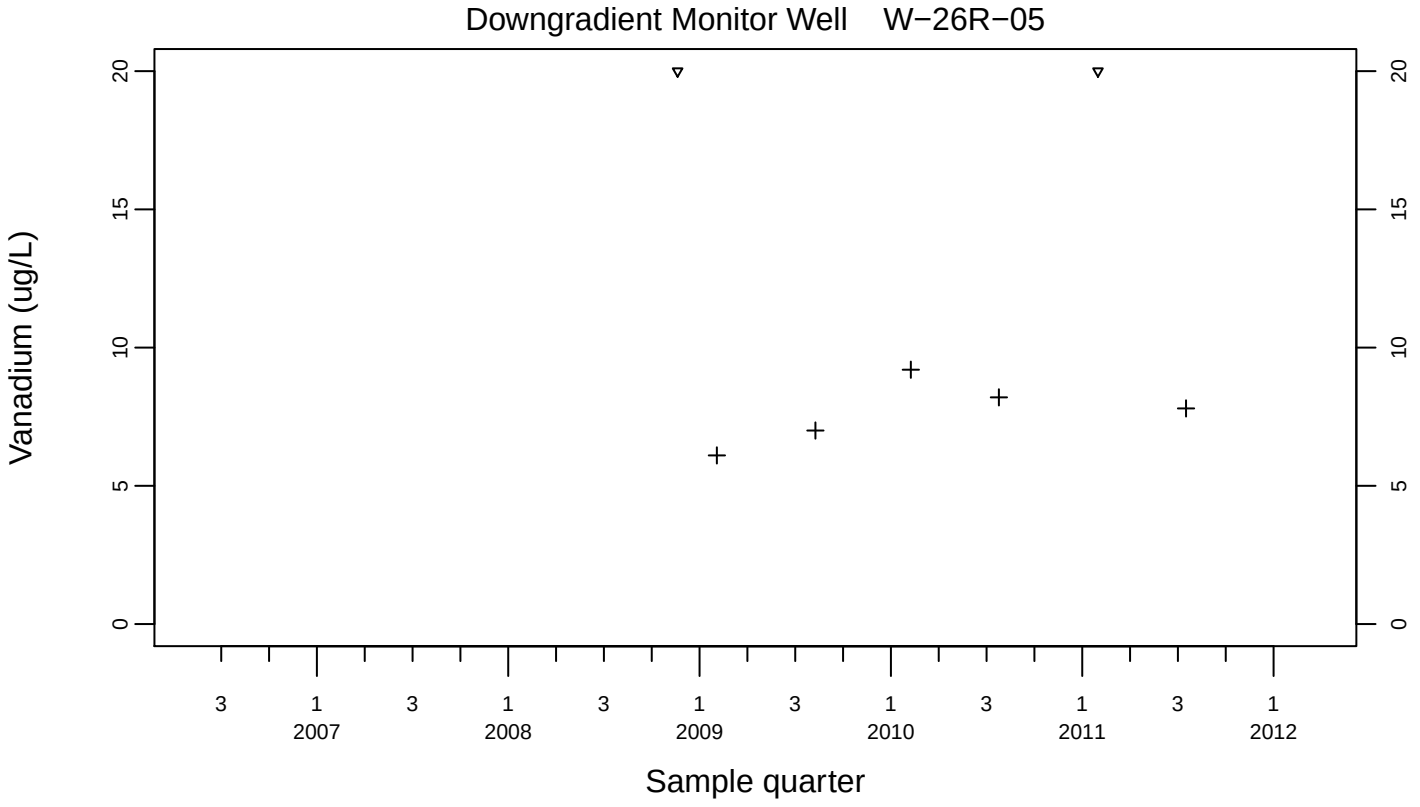

Sewage Ponds Ground Water
Vanadium (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Vanadium (ug/L)
0
5
10
15
20
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

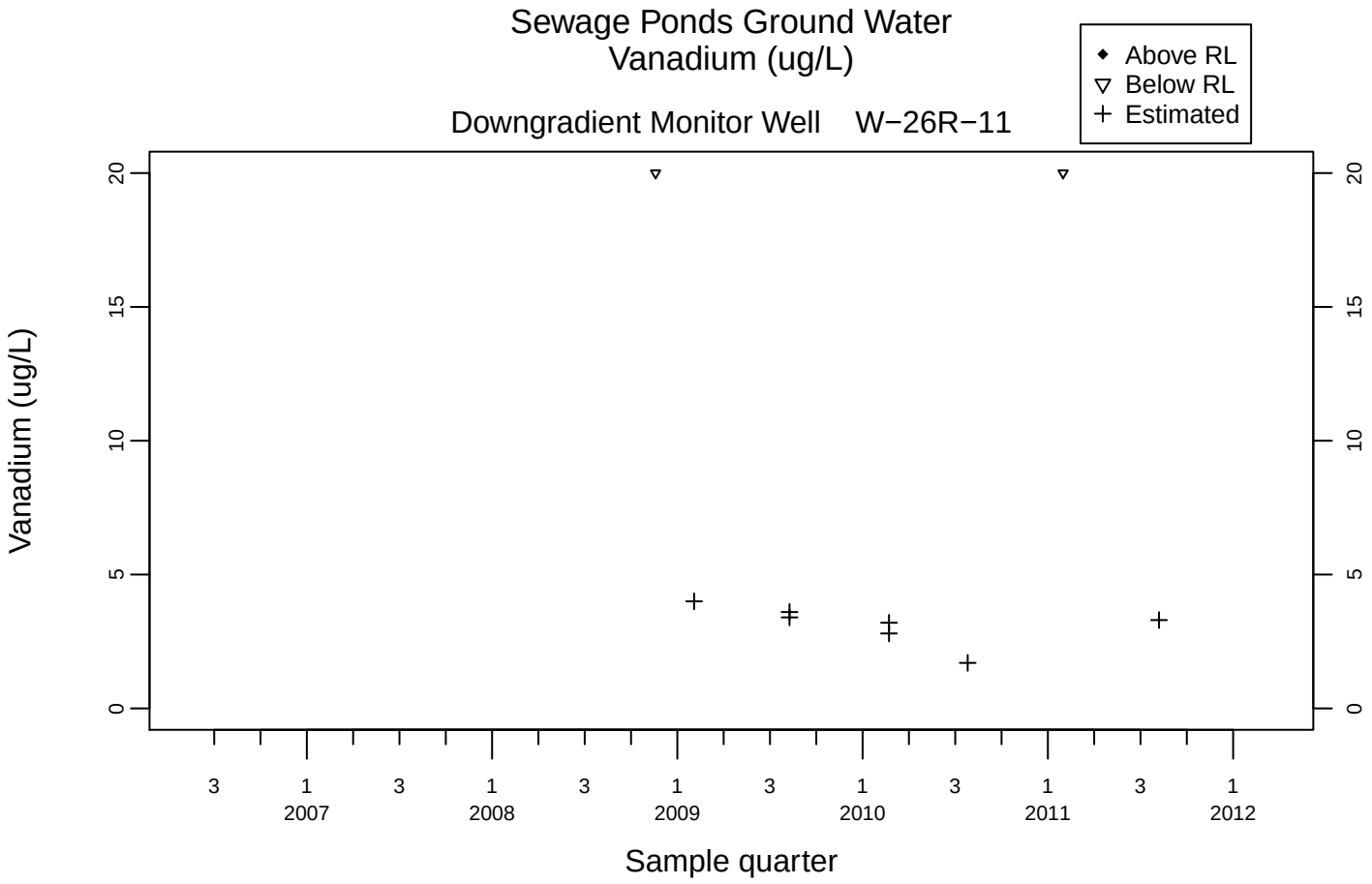

Downgradient Monitor Well W−7DS
Vanadium (ug/L)
0
5
10
15
20
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

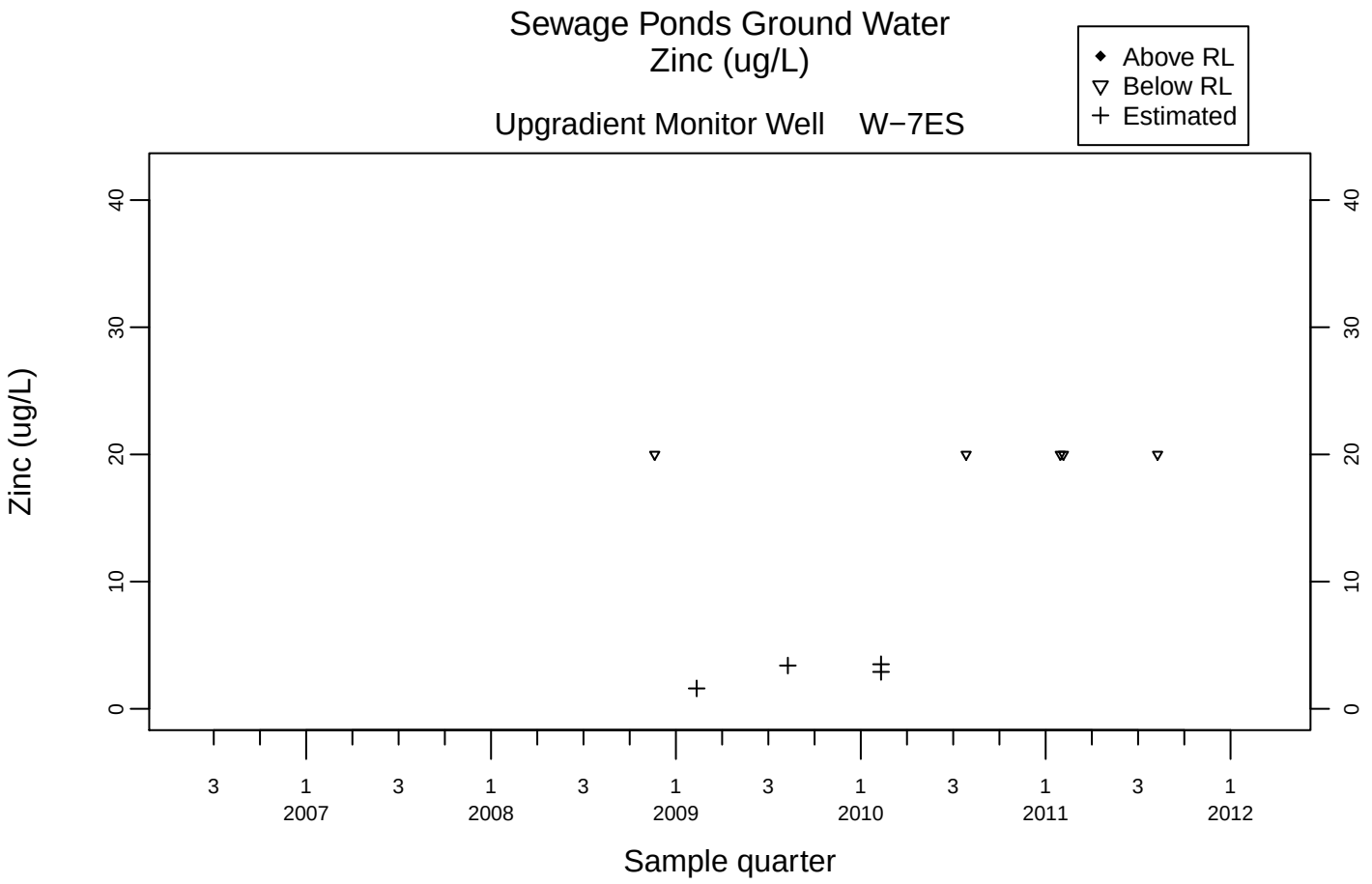

Sewage Ponds Ground Water
Vanadium (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−25N−20
Vanadium (ug/L)
0
5
10
15
20
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

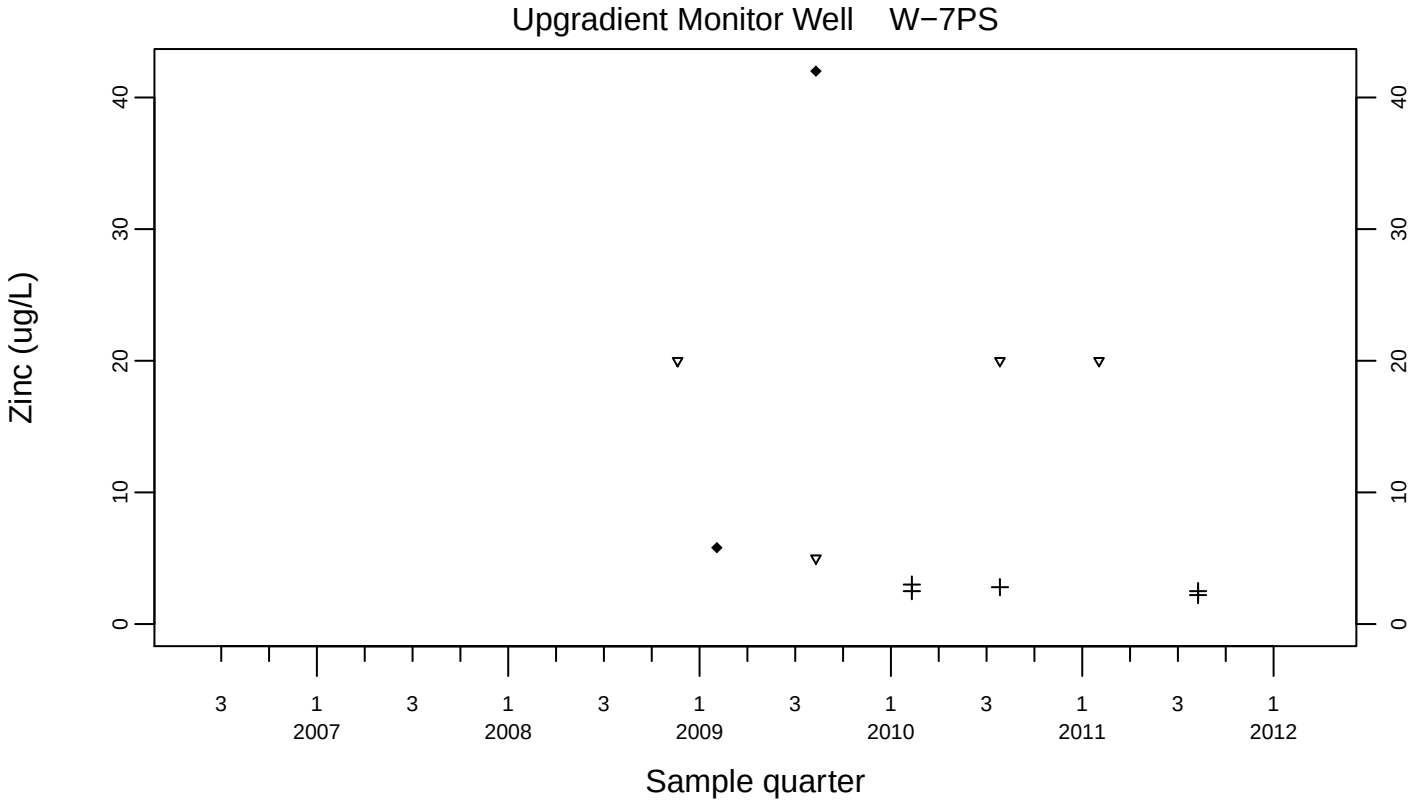

Downgradient Monitor Well W−25N−23
Vanadium (ug/L)
0
5
10
15
20
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

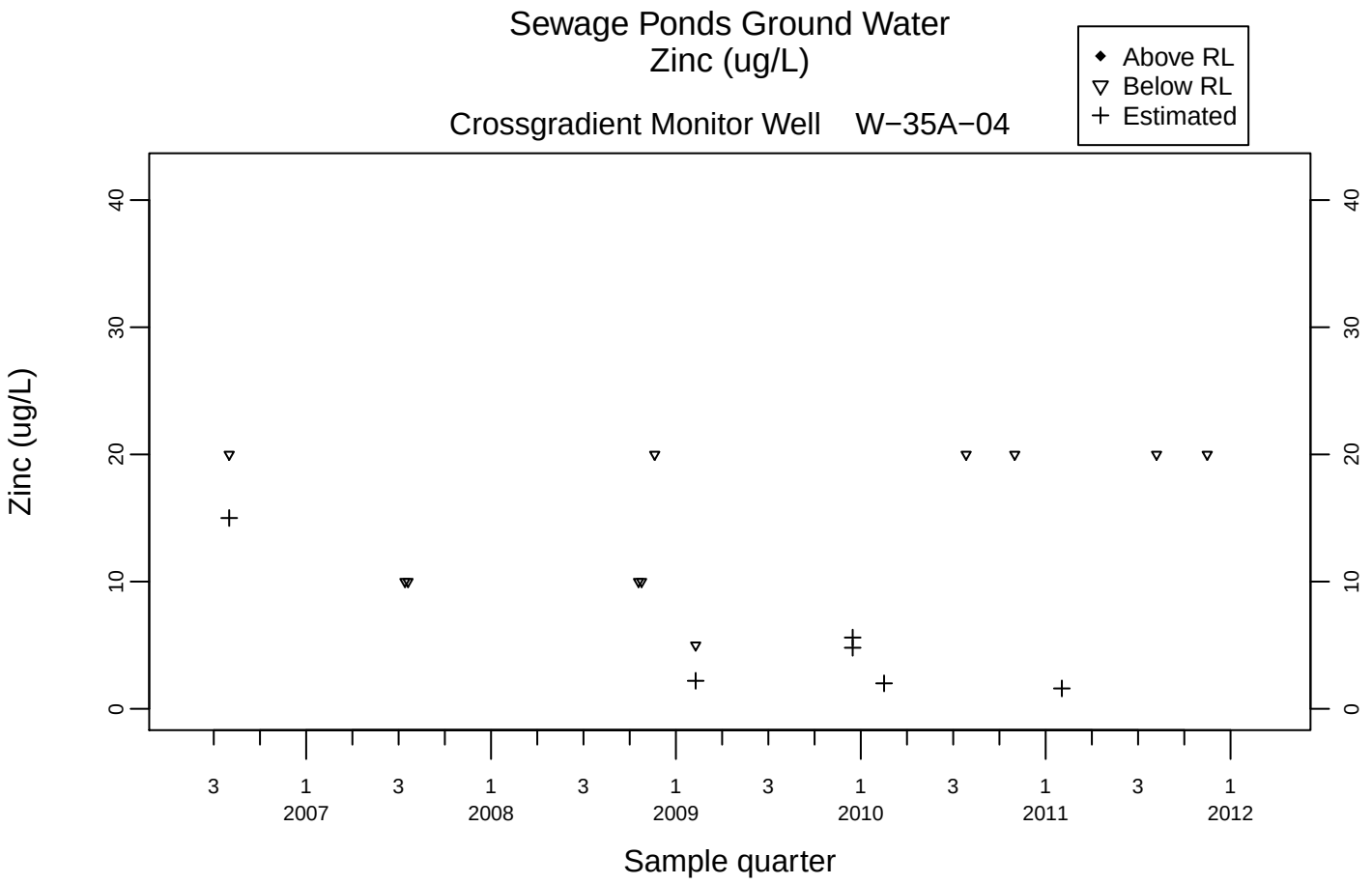

Sewage Ponds Ground Water
Vanadium (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−26R−01
Vanadium (ug/L)
0
5
10
15
20
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

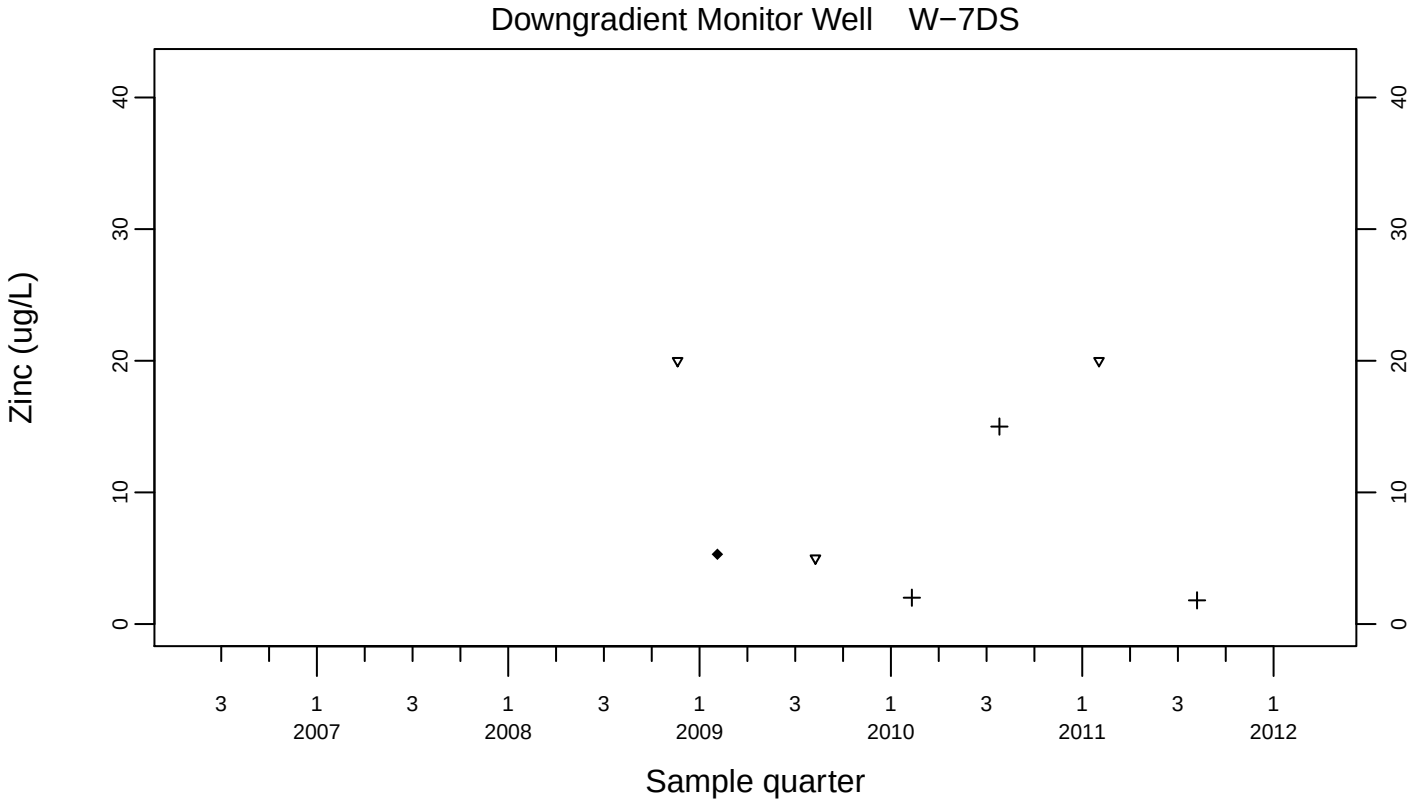

Downgradient Monitor Well W−26R−05
Vanadium (ug/L)
0
5
10
15
20
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

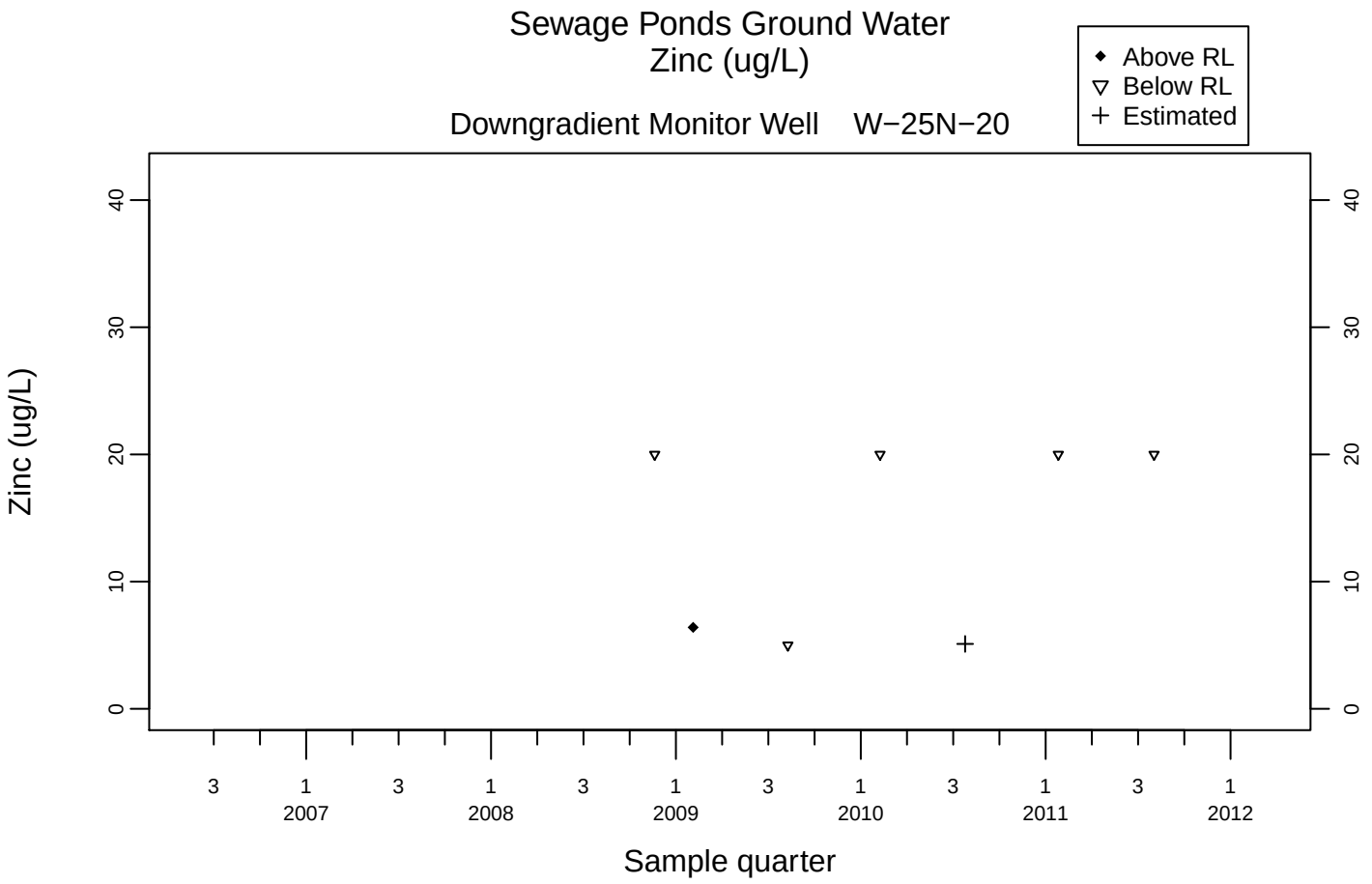

Sewage Ponds Ground Water
Vanadium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Estimated
Vanadium (ug/L)
0
5
10
15
20
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

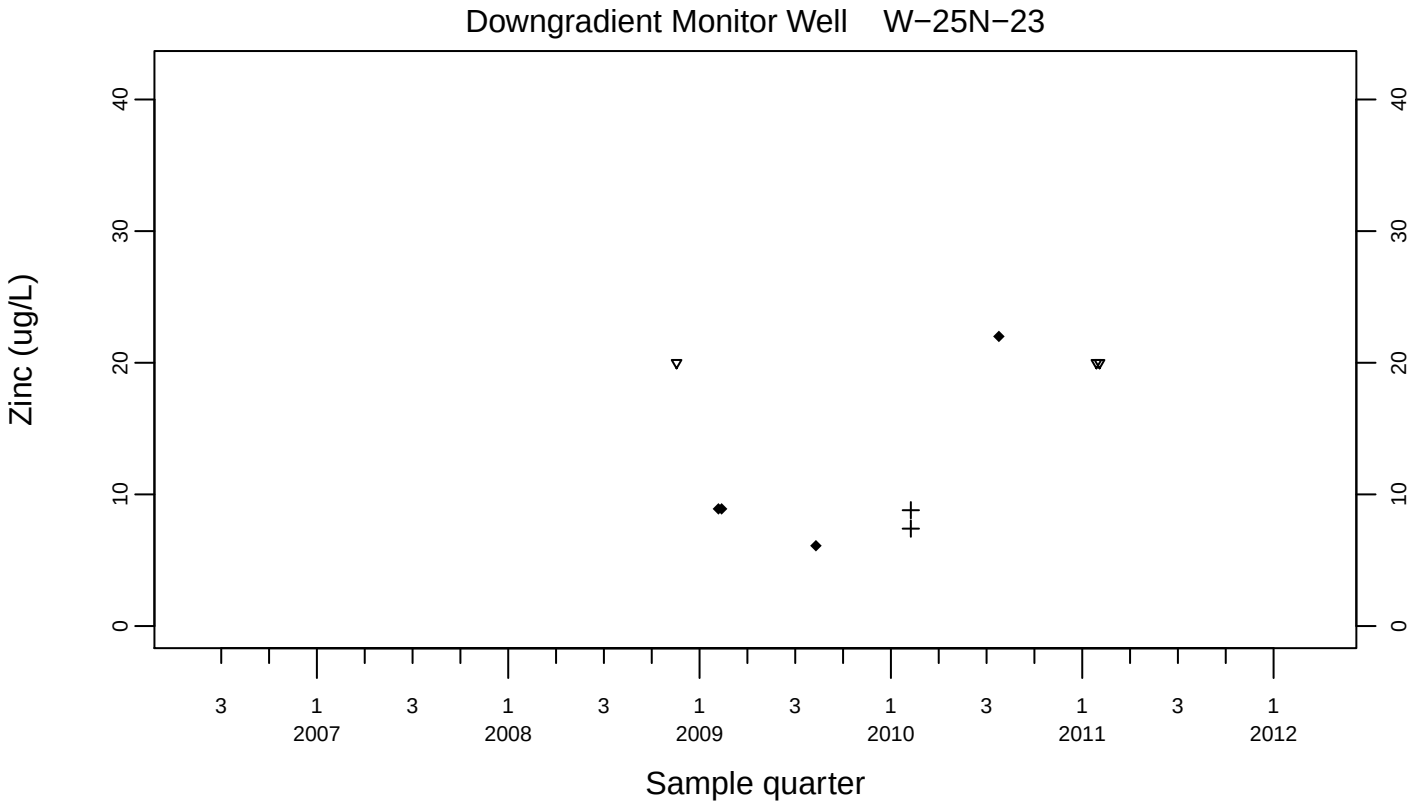

Sewage Ponds Ground Water
Zinc (ug/L)
Above RL
Below RL
Estimated
Upgradient Monitor Well W−7ES
Zinc (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

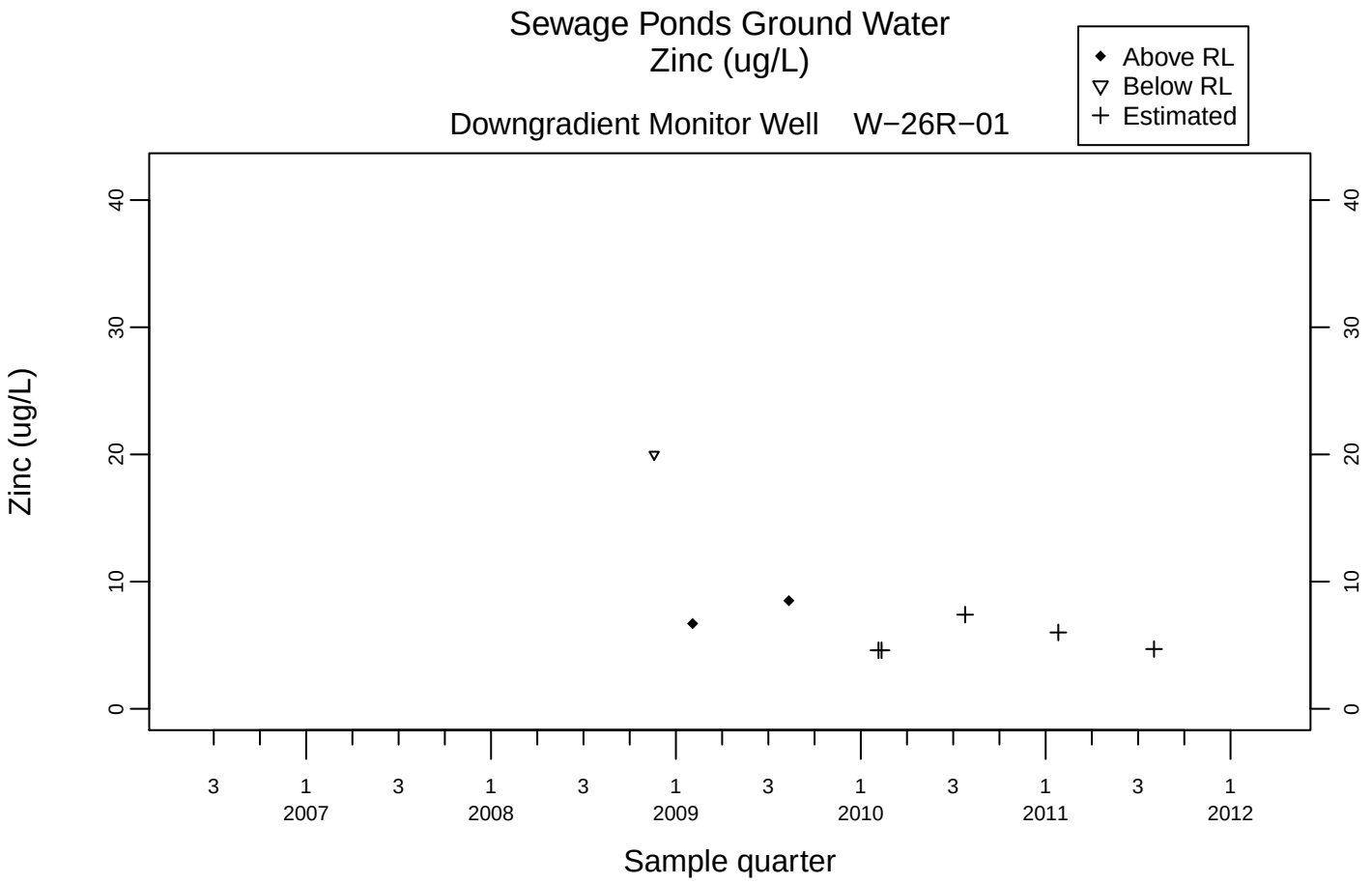

Upgradient Monitor Well W−7PS
Zinc (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

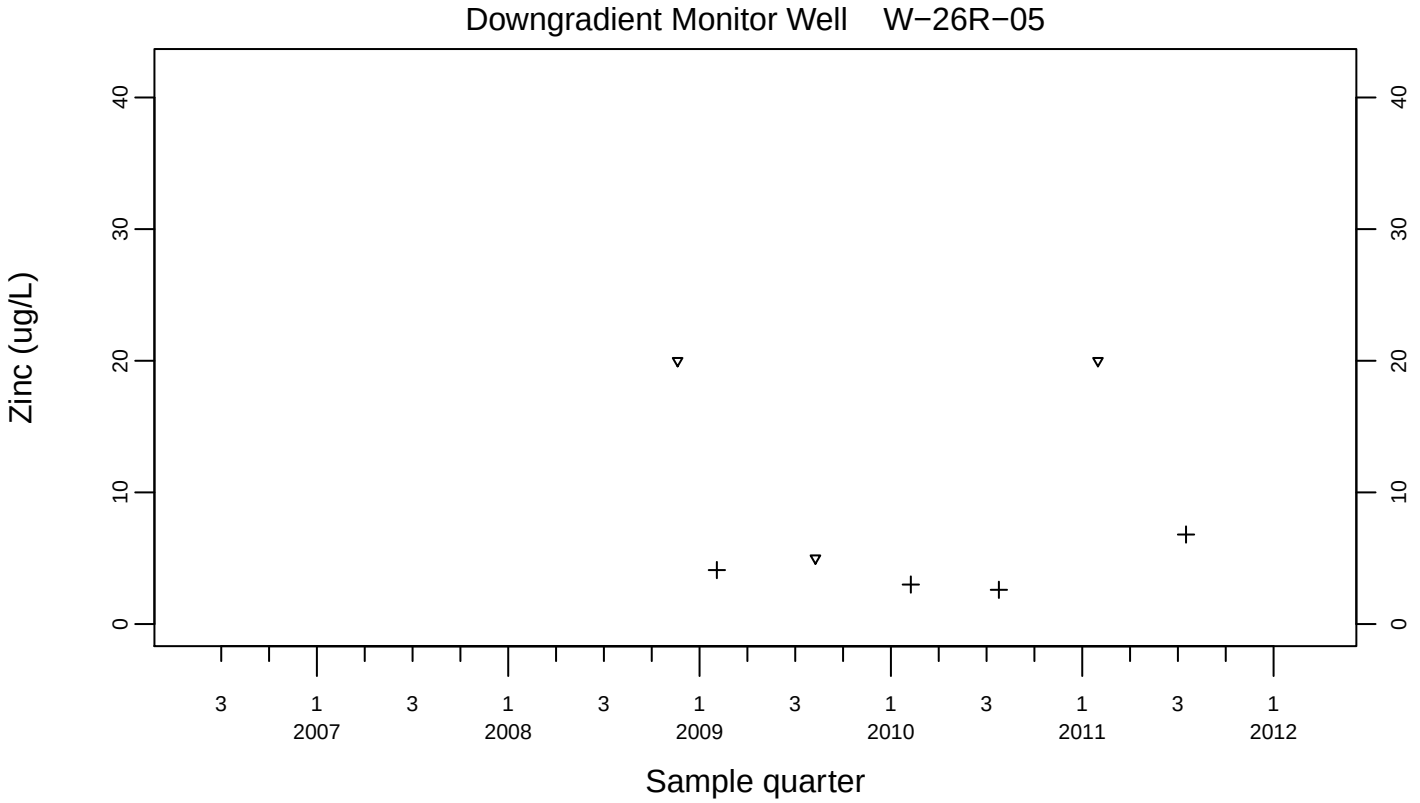

Sewage Ponds Ground Water
Zinc (ug/L)
Above RL
Below RL
Estimated
Crossgradient Monitor Well W−35A−04
Zinc (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

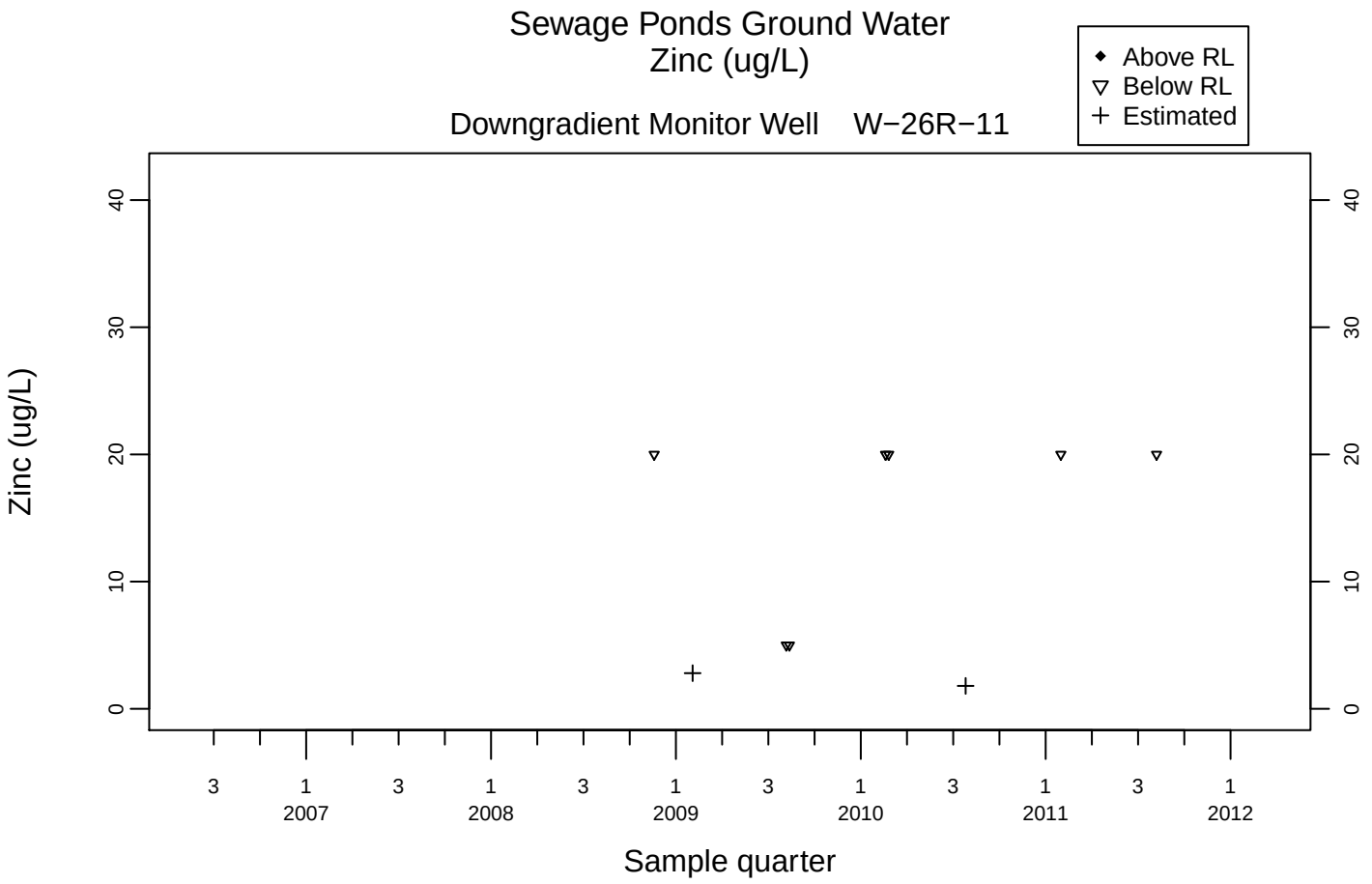

Downgradient Monitor Well W−7DS
Zinc (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

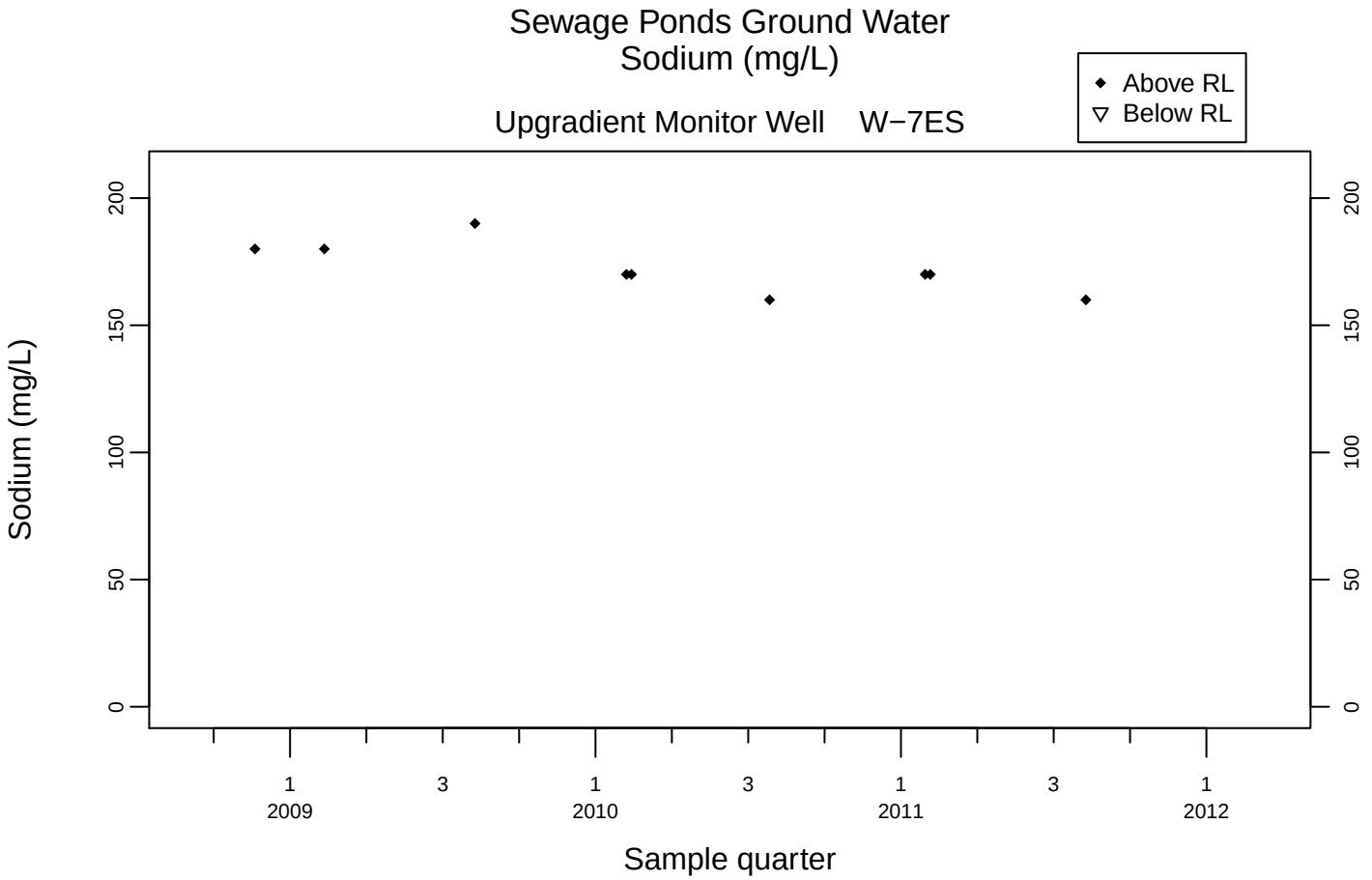

Sewage Ponds Ground Water
Zinc (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−25N−20
Zinc (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

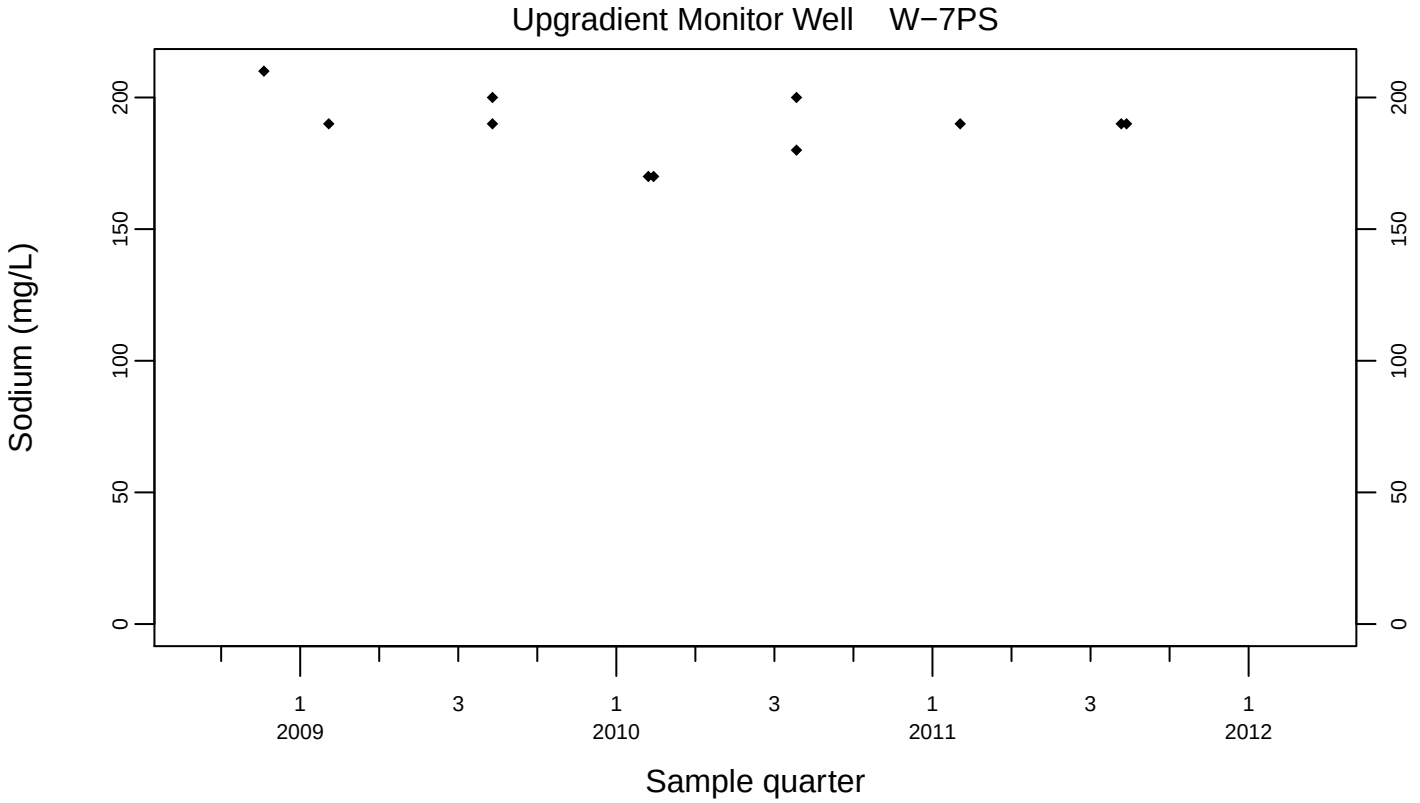

Downgradient Monitor Well W−25N−23
Zinc (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

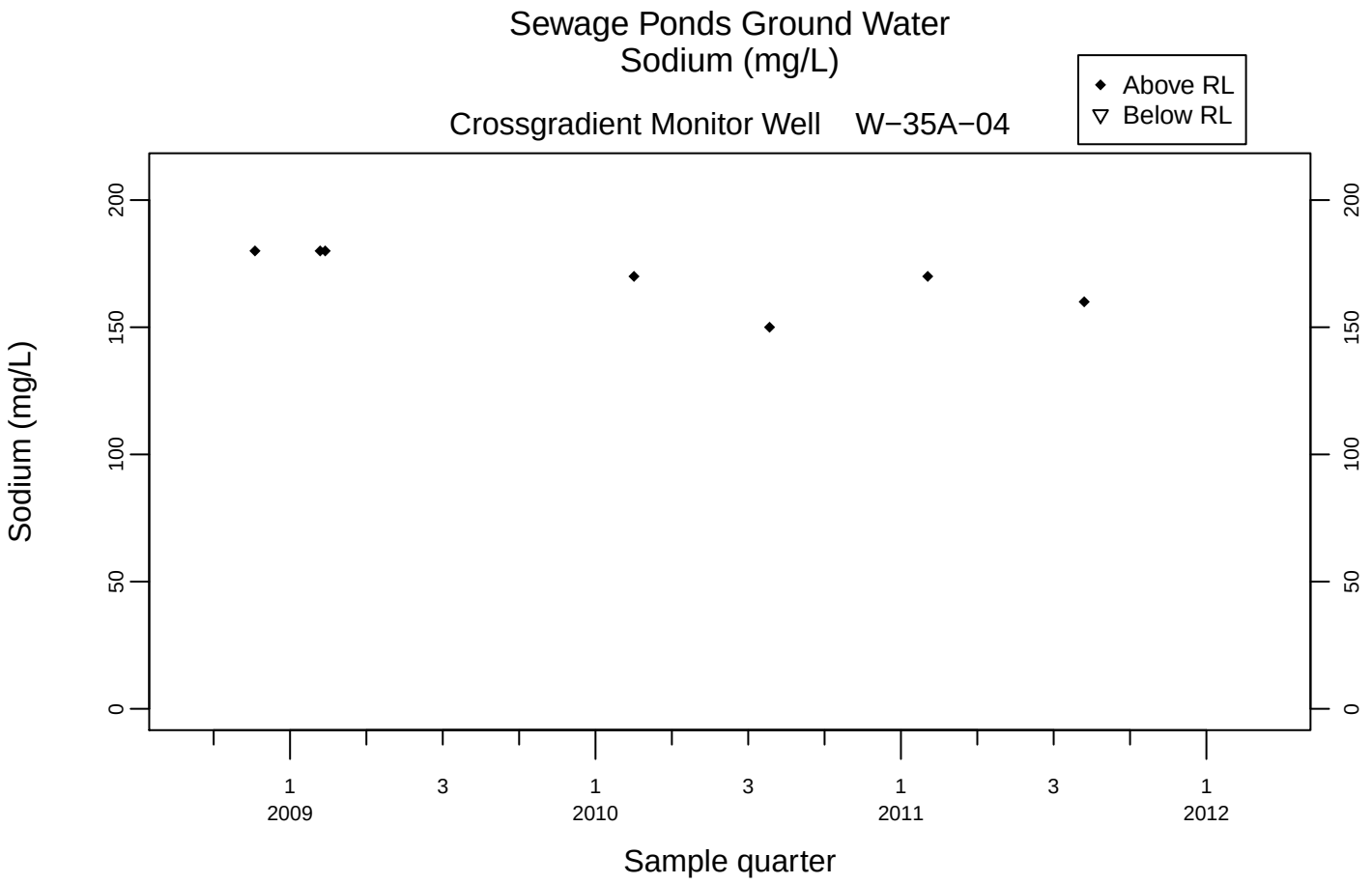

Sewage Ponds Ground Water
Zinc (ug/L)
Above RL
Below RL
Estimated
Downgradient Monitor Well W−26R−01
Zinc (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

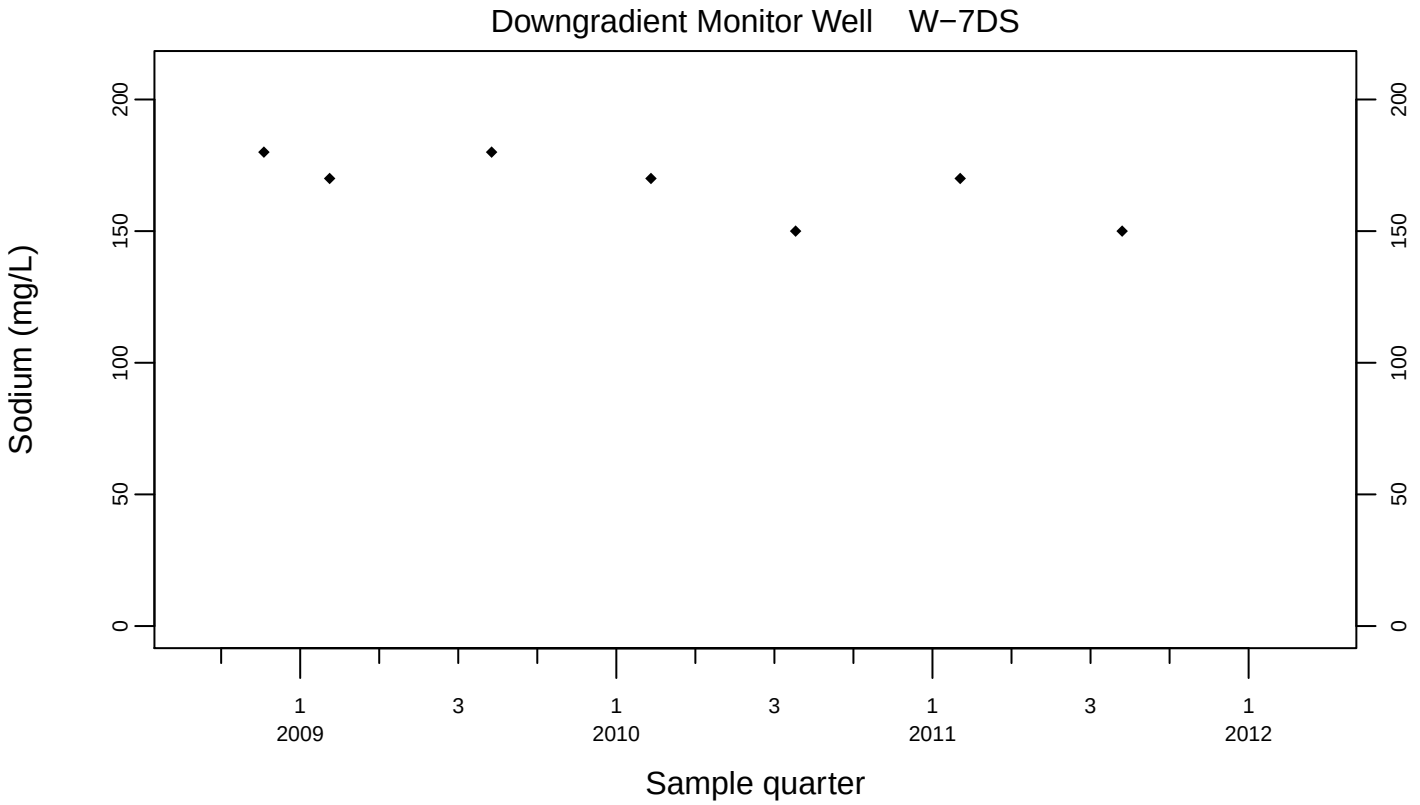

Downgradient Monitor Well W−26R−05
Zinc (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

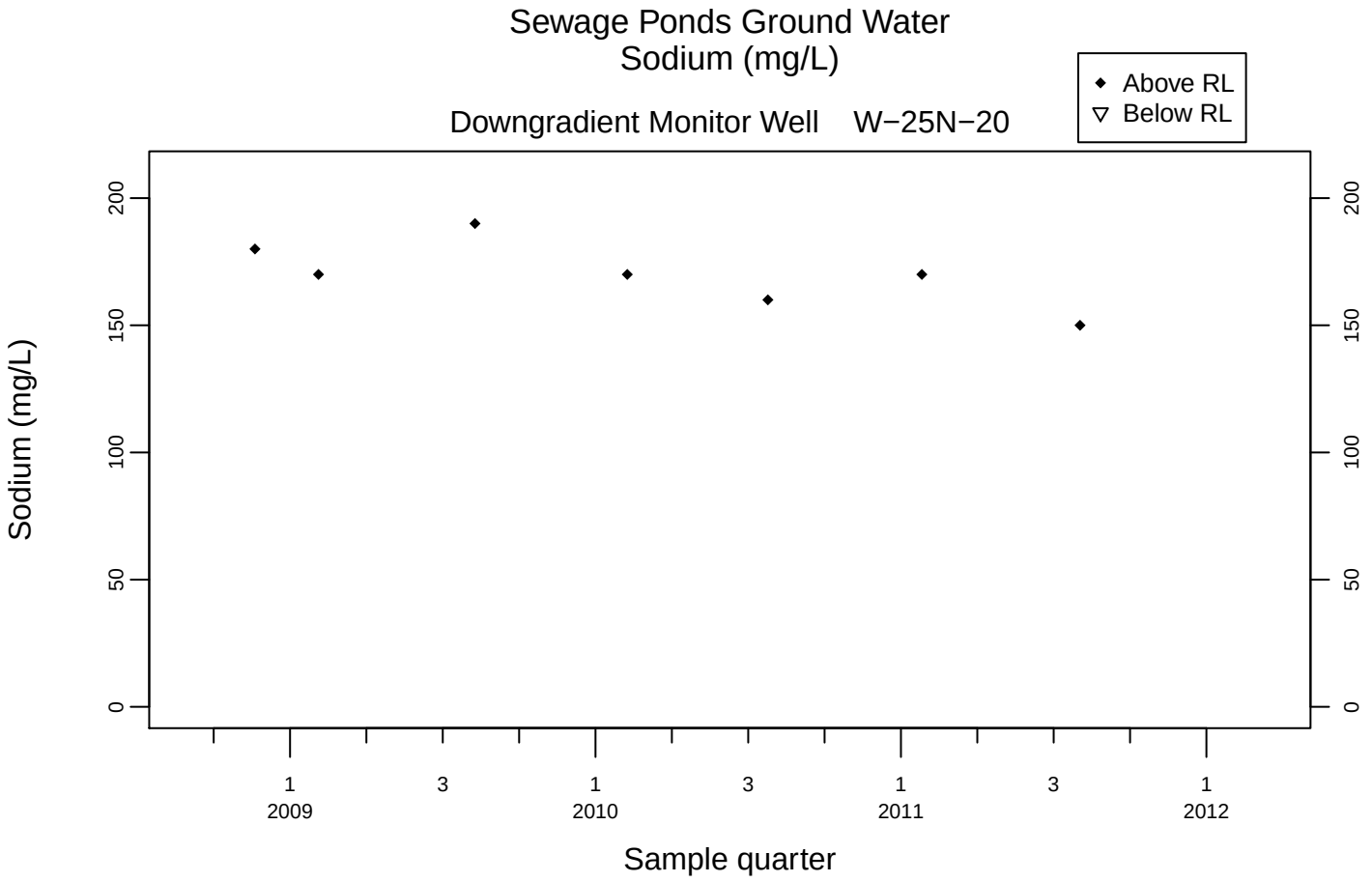

Sewage Ponds Ground Water
Zinc (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Estimated
Zinc (ug/L)
0
10
20
30
40
3
1
2007
2008
2009
2010
2011
2012
Sample quarter

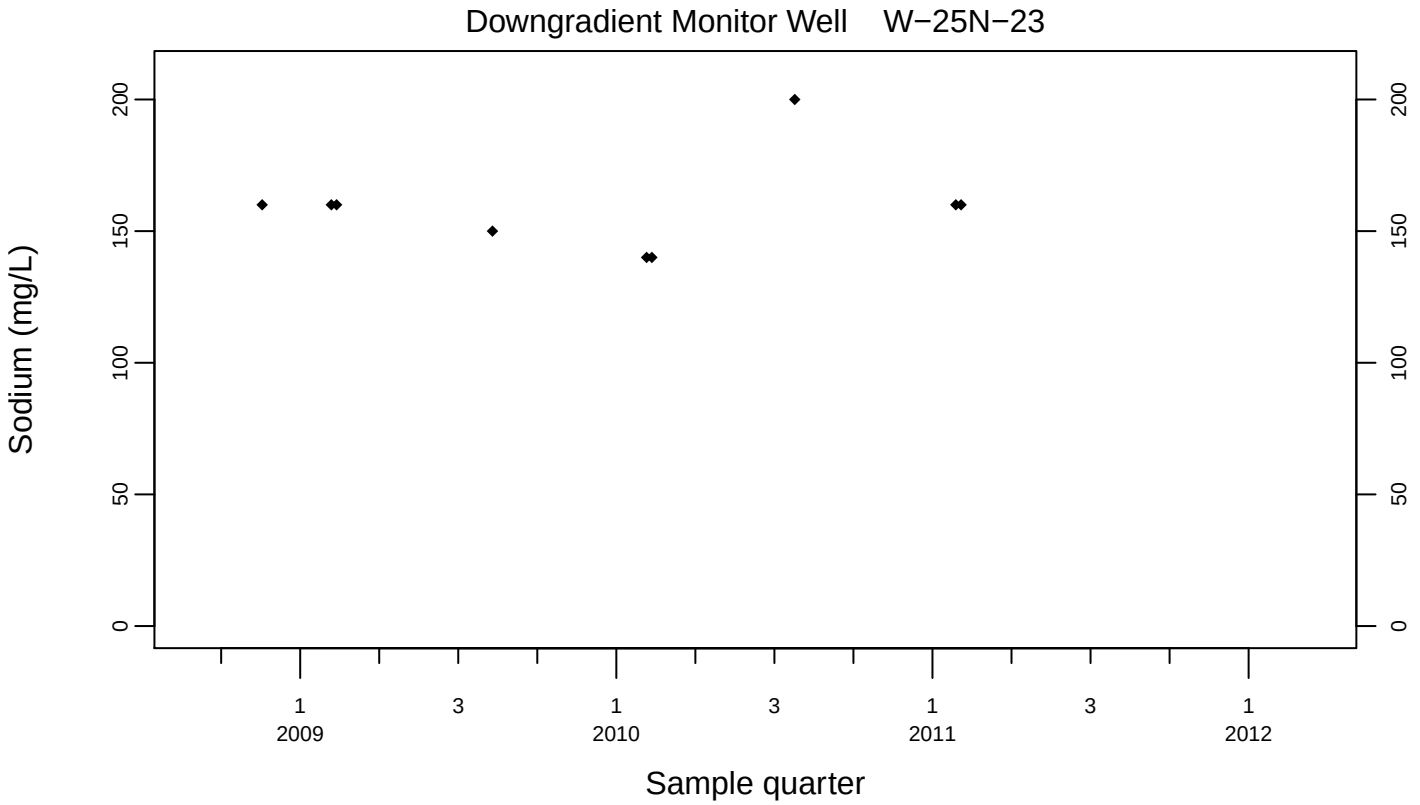

Sewage Ponds Ground Water
Sodium (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Sodium (mg/L)
0
50
100
150
200
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

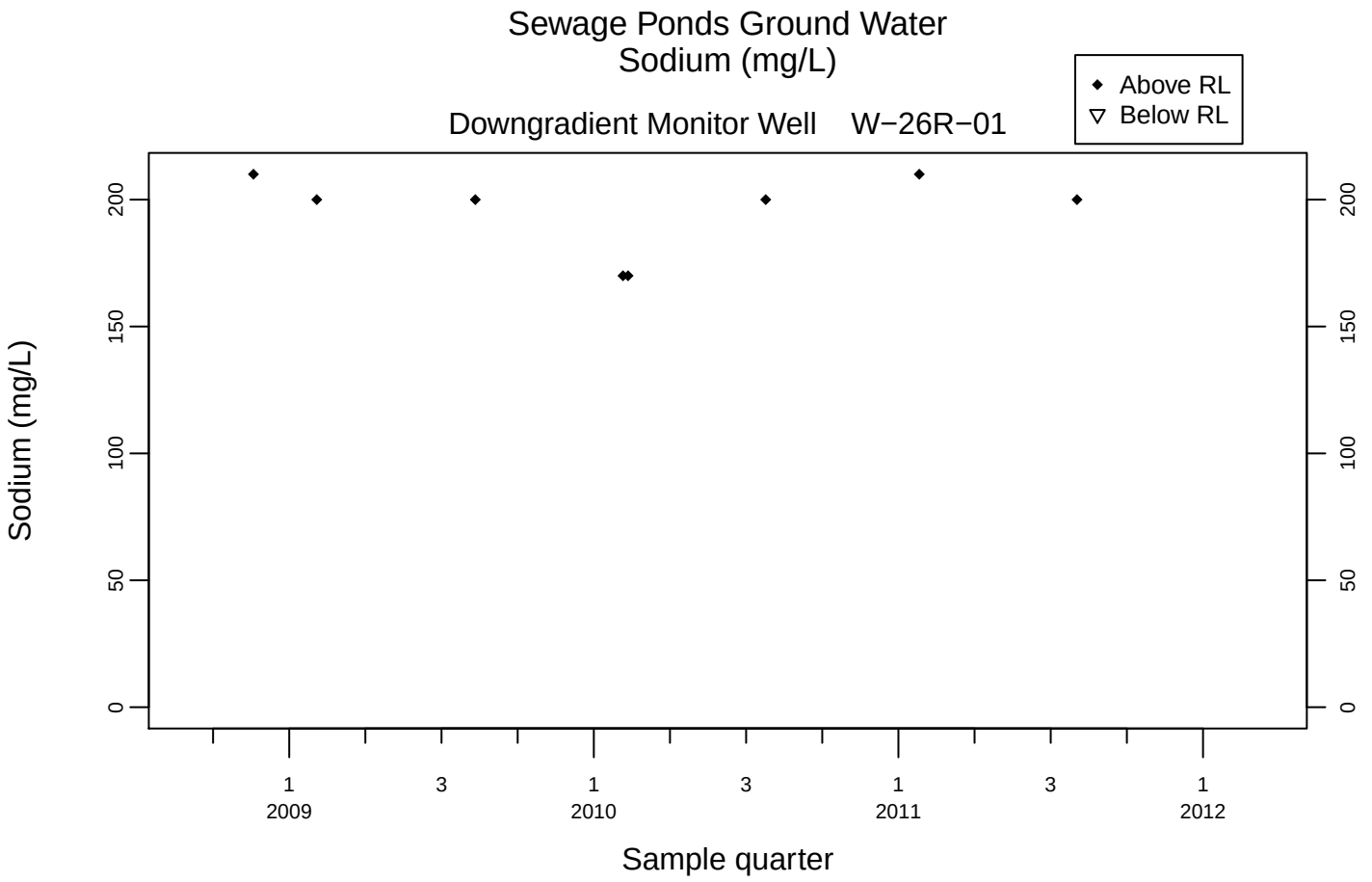

Upgradient Monitor Well W−7PS
Sodium (mg/L)
0
50
100
150
200
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

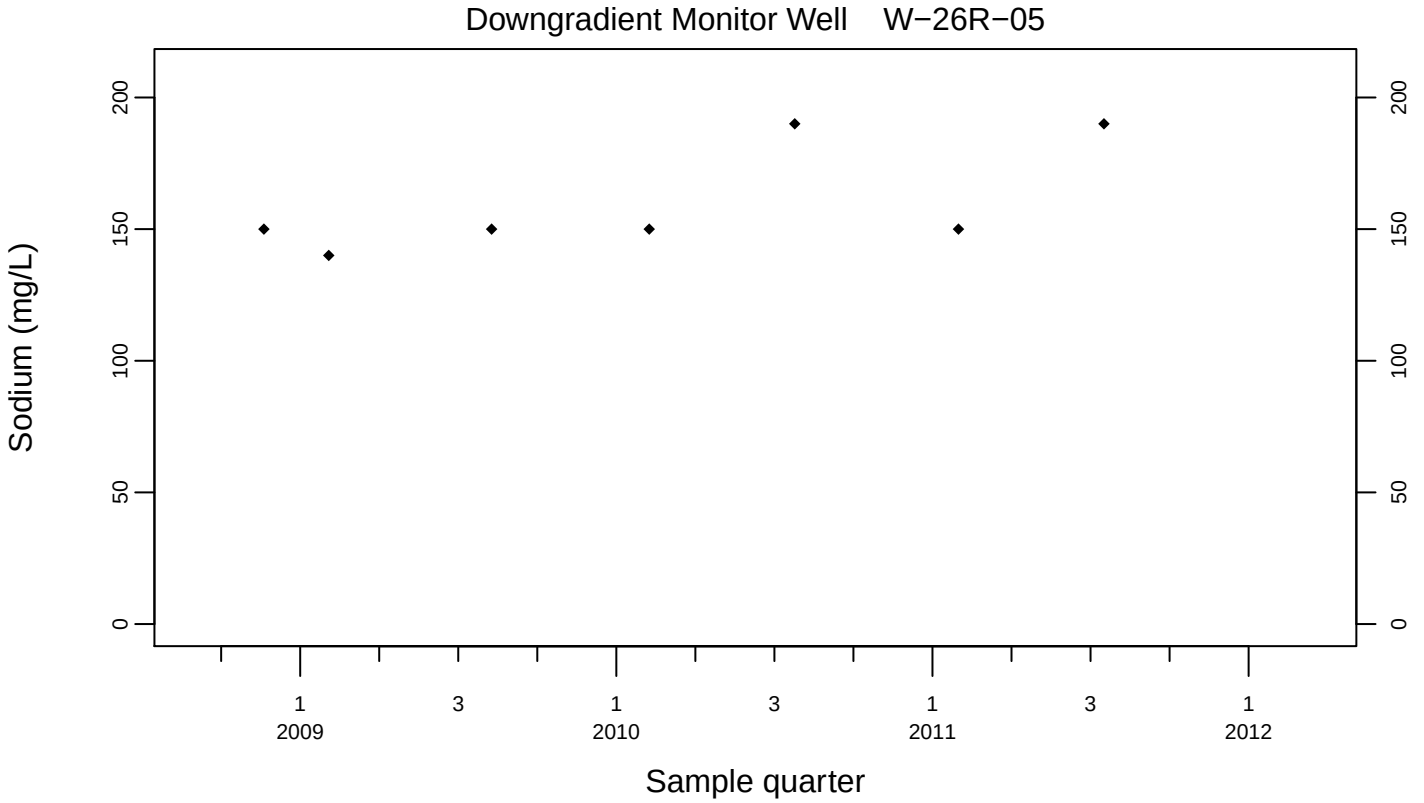

Sewage Ponds Ground Water
Sodium (mg/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Sodium (mg/L)
0
50
100
150
200
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

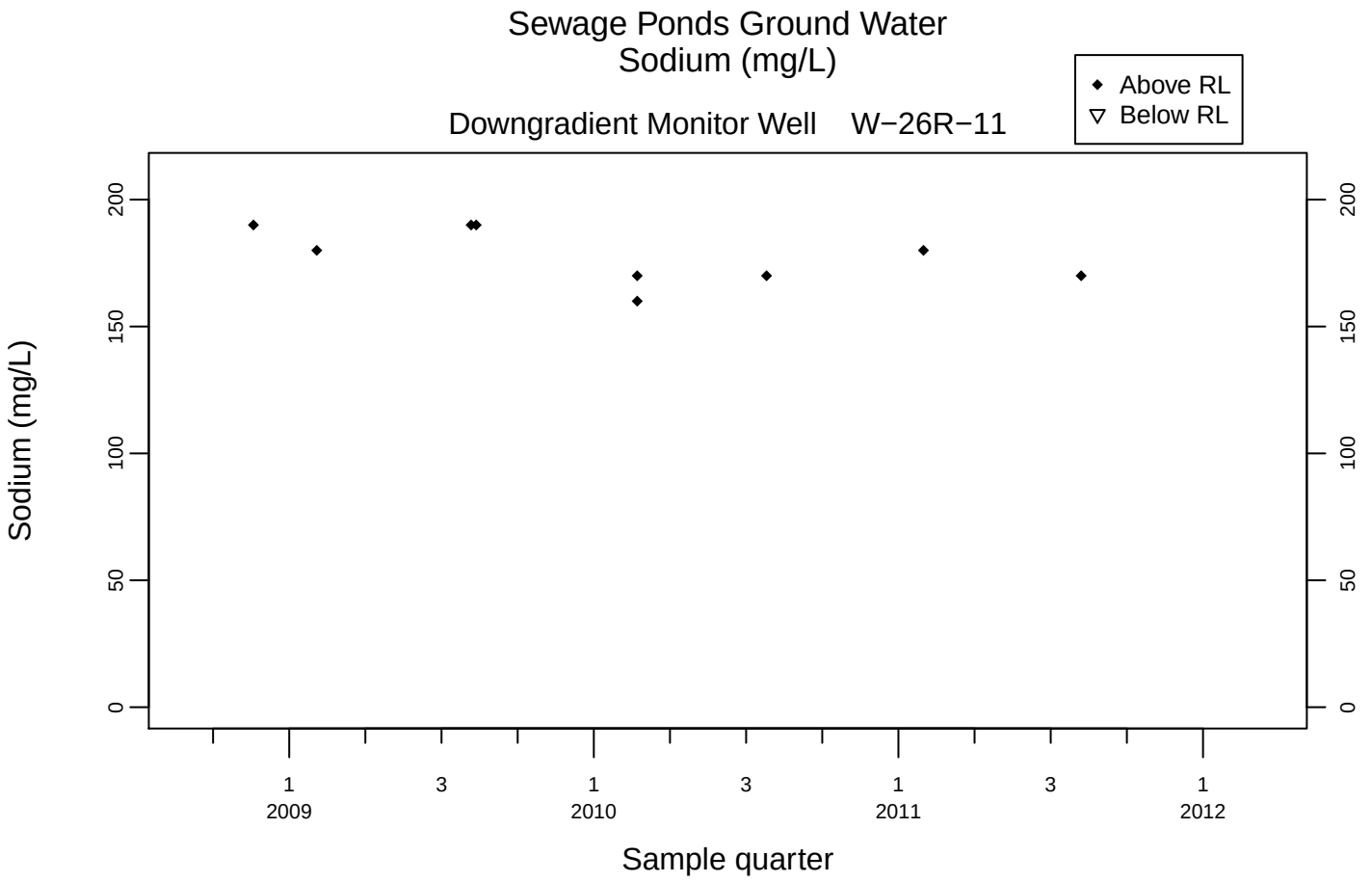

Downgradient Monitor Well W−7DS
Sodium (mg/L)
0
50
100
150
200
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

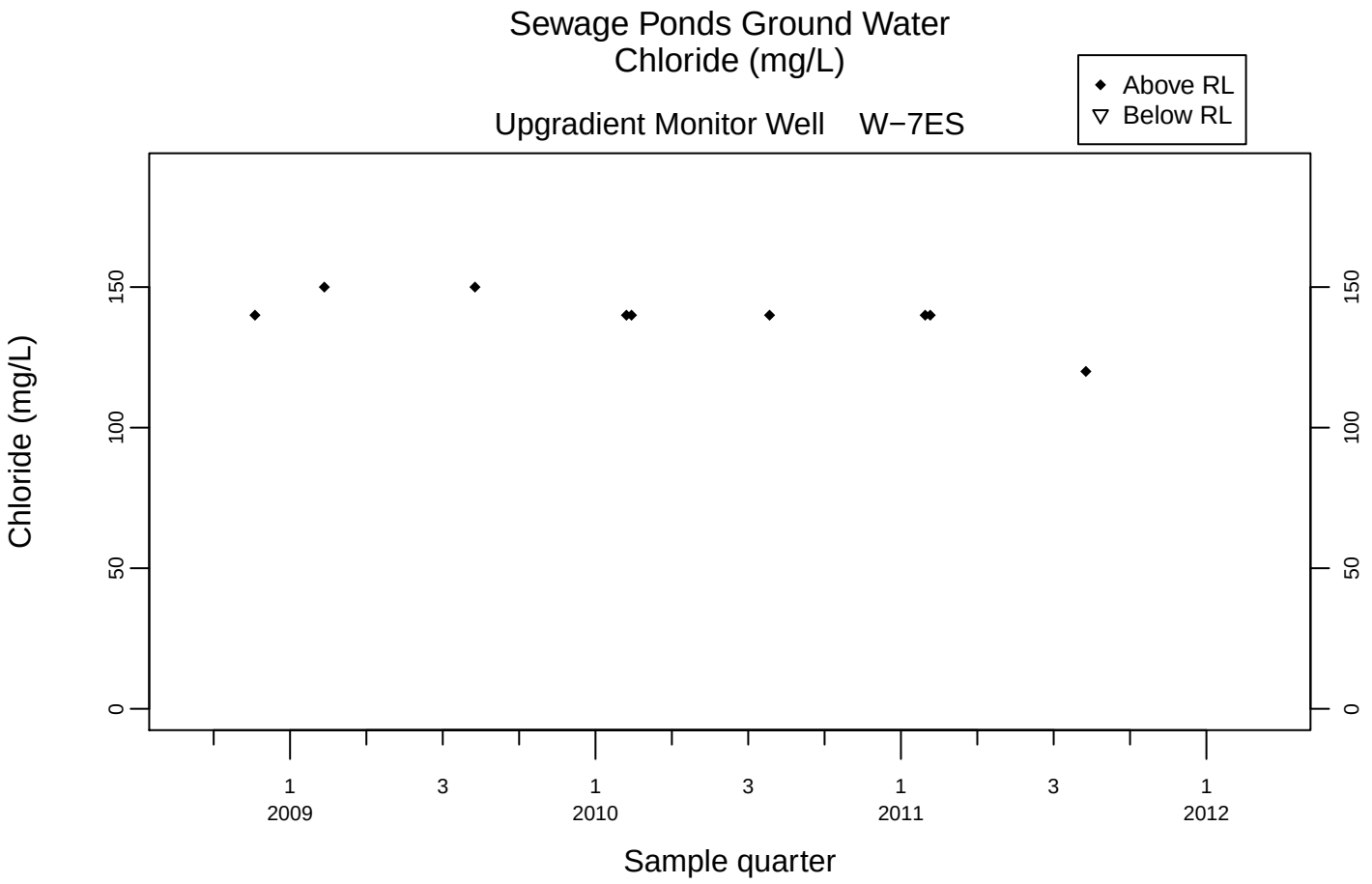

Sewage Ponds Ground Water
Sodium (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Sodium (mg/L)
0
50
100
150
200
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

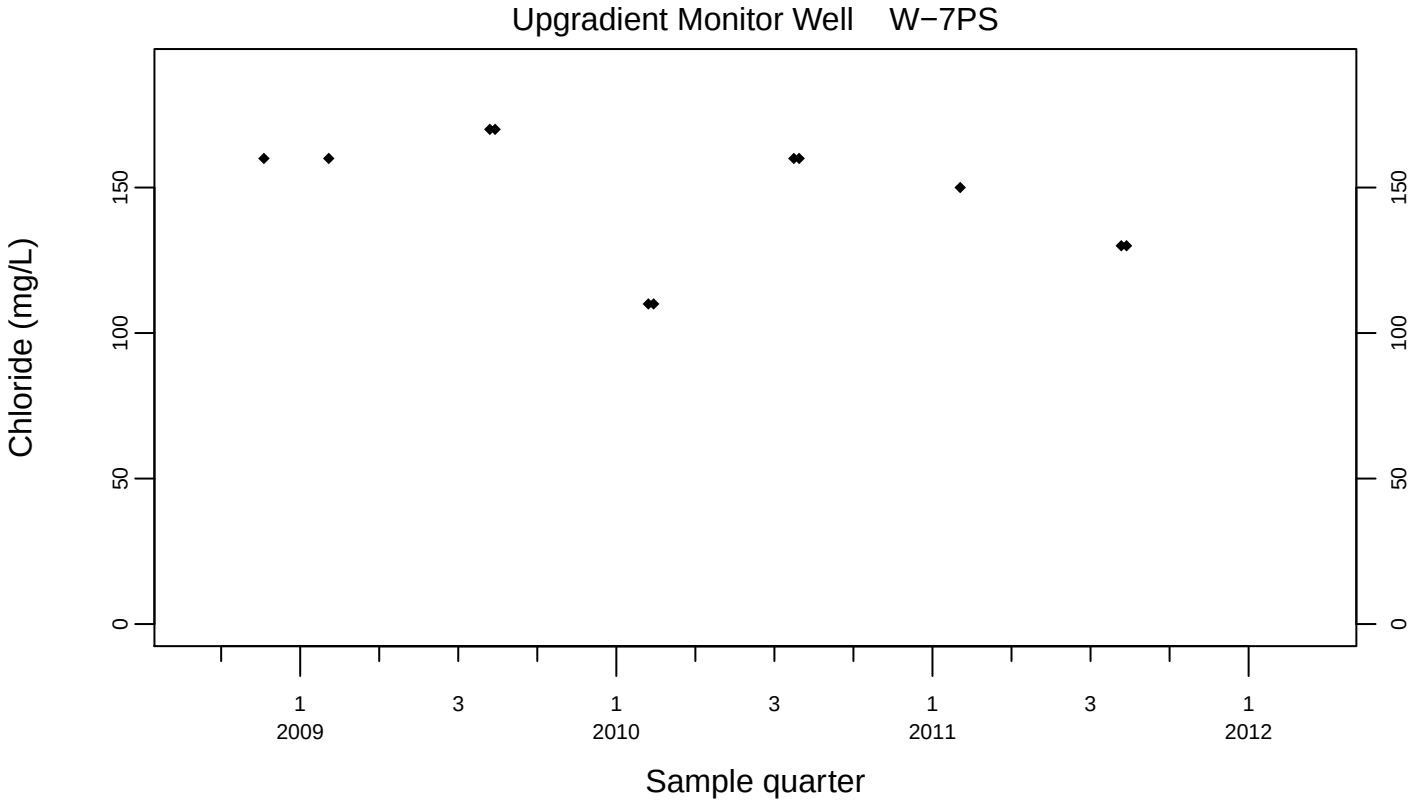

Downgradient Monitor Well W−25N−23
Sodium (mg/L)
0
50
100
150
200
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

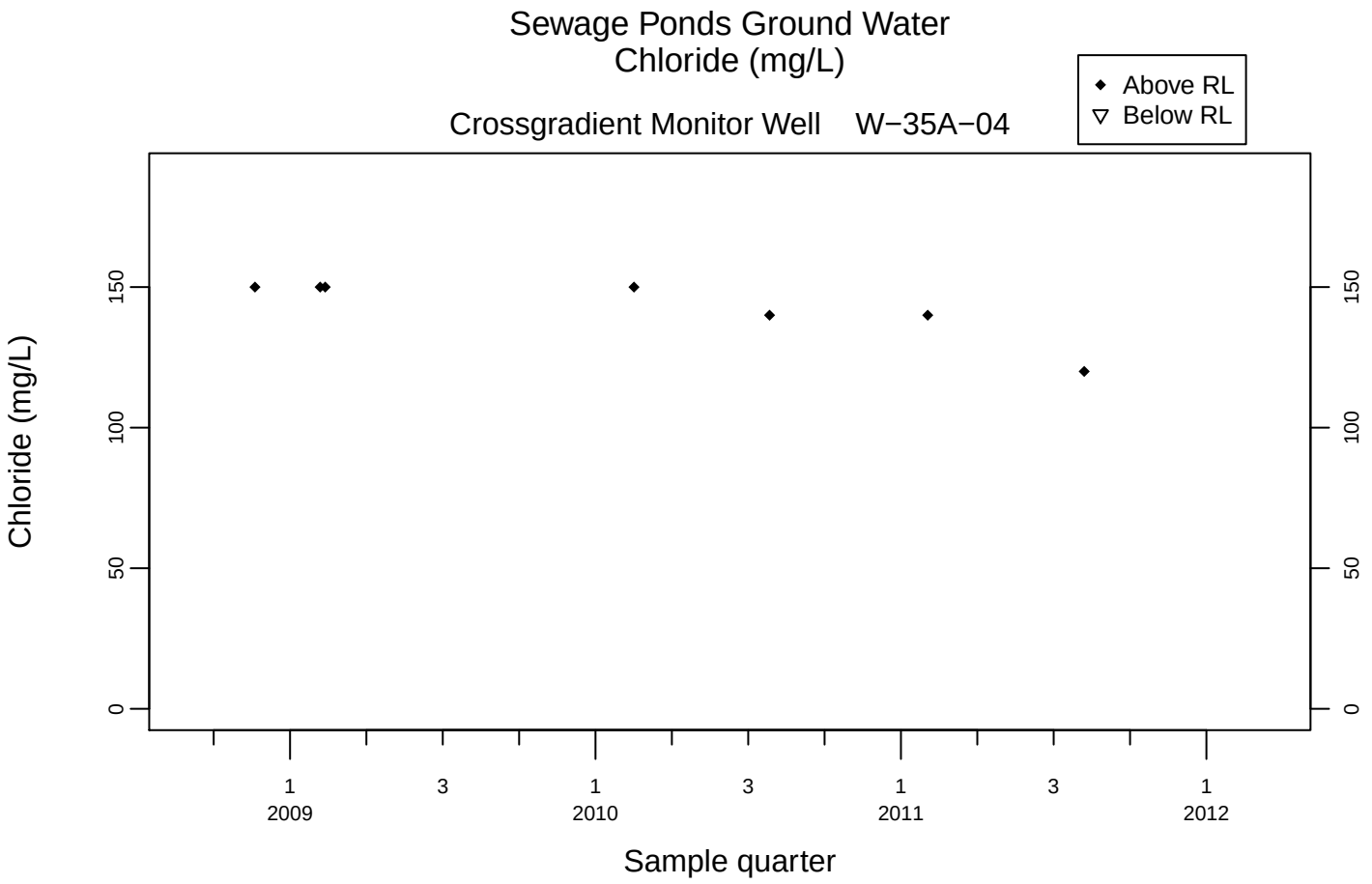

Sewage Ponds Ground Water
Sodium (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Sodium (mg/L)
0
50
100
150
200
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

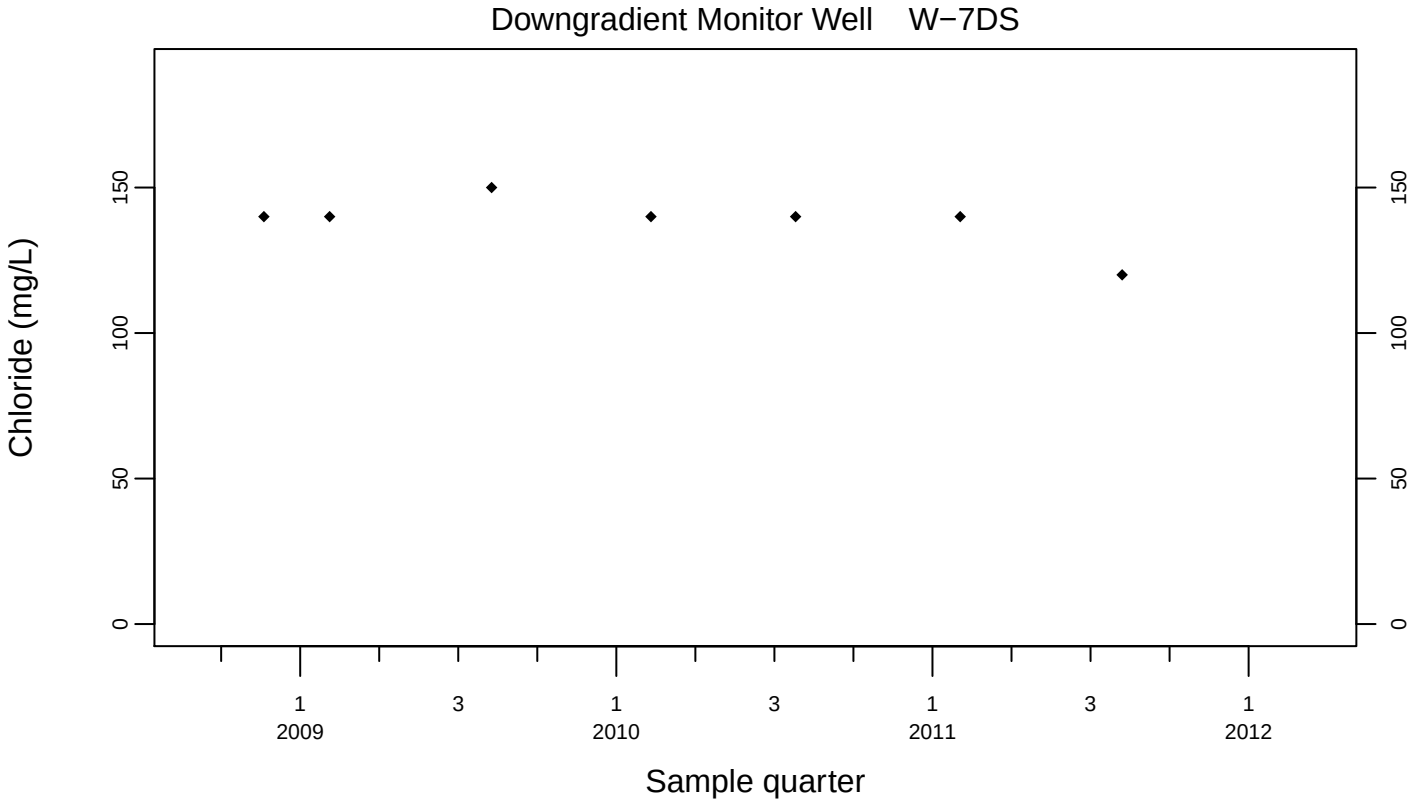

Downgradient Monitor Well W−26R−05
Sodium (mg/L)
0
50
100
150
200
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

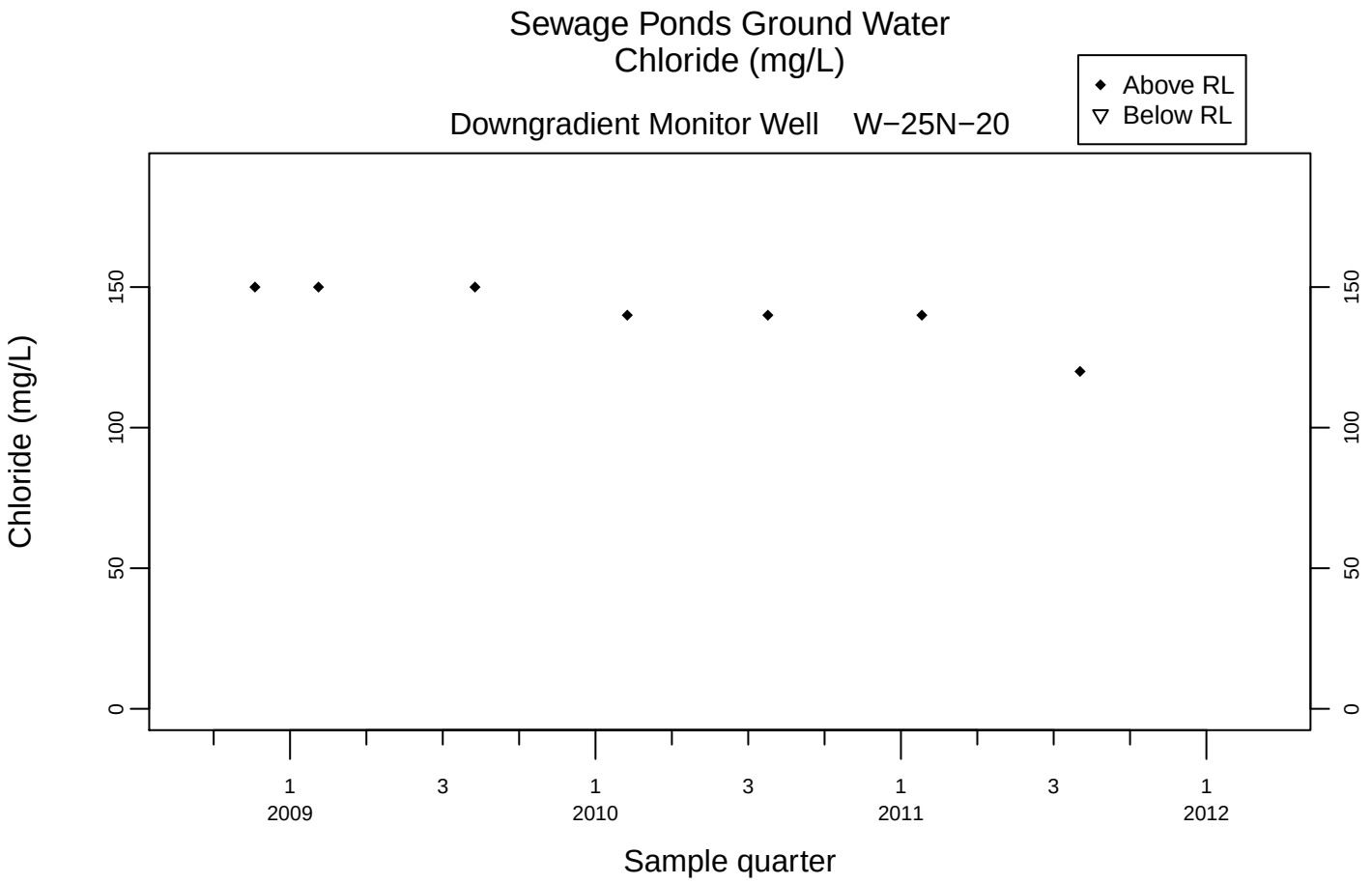

Sewage Ponds Ground Water
Sodium (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Sodium (mg/L)
0
50
100
150
200
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

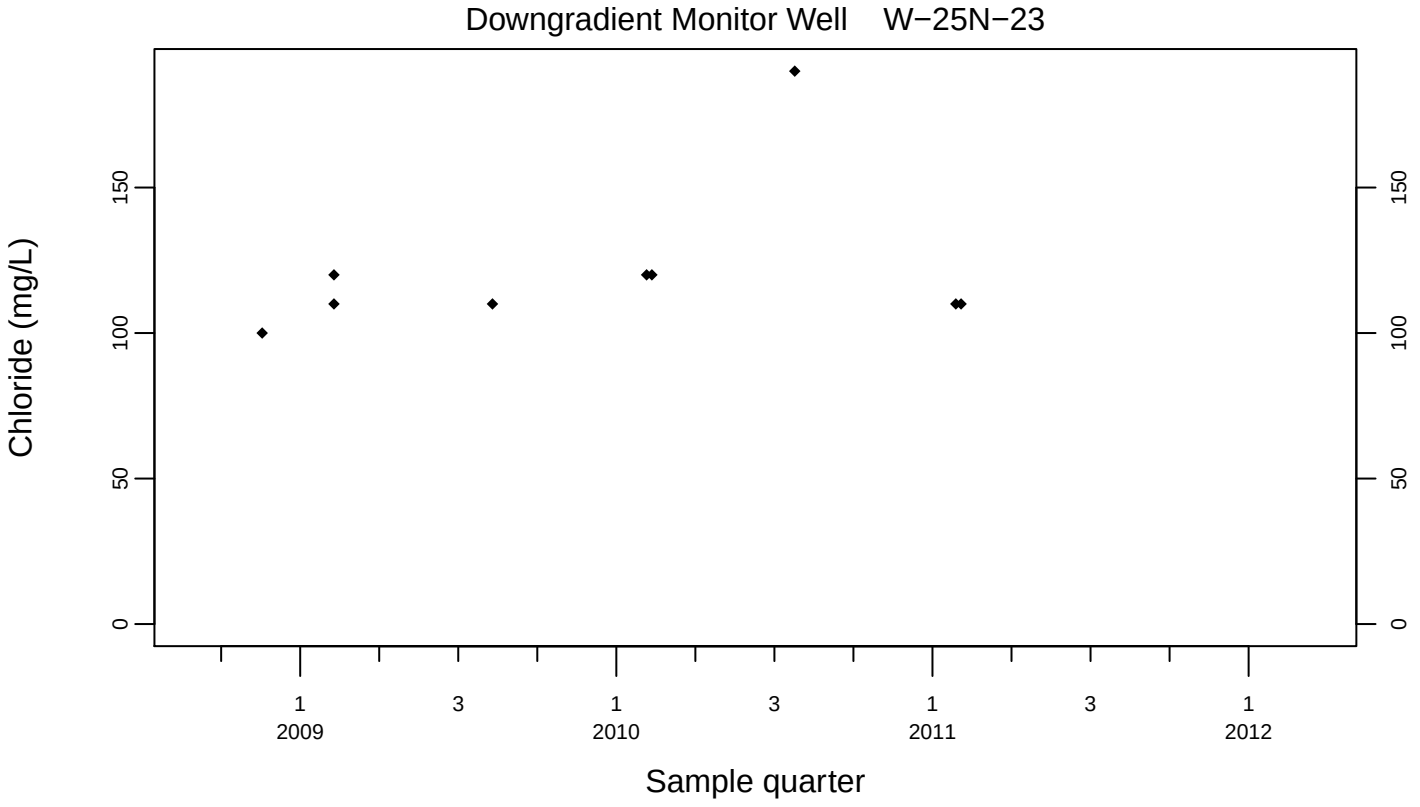

Sewage Ponds Ground Water
Chloride (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Chloride (mg/L)
0
50
100
150
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

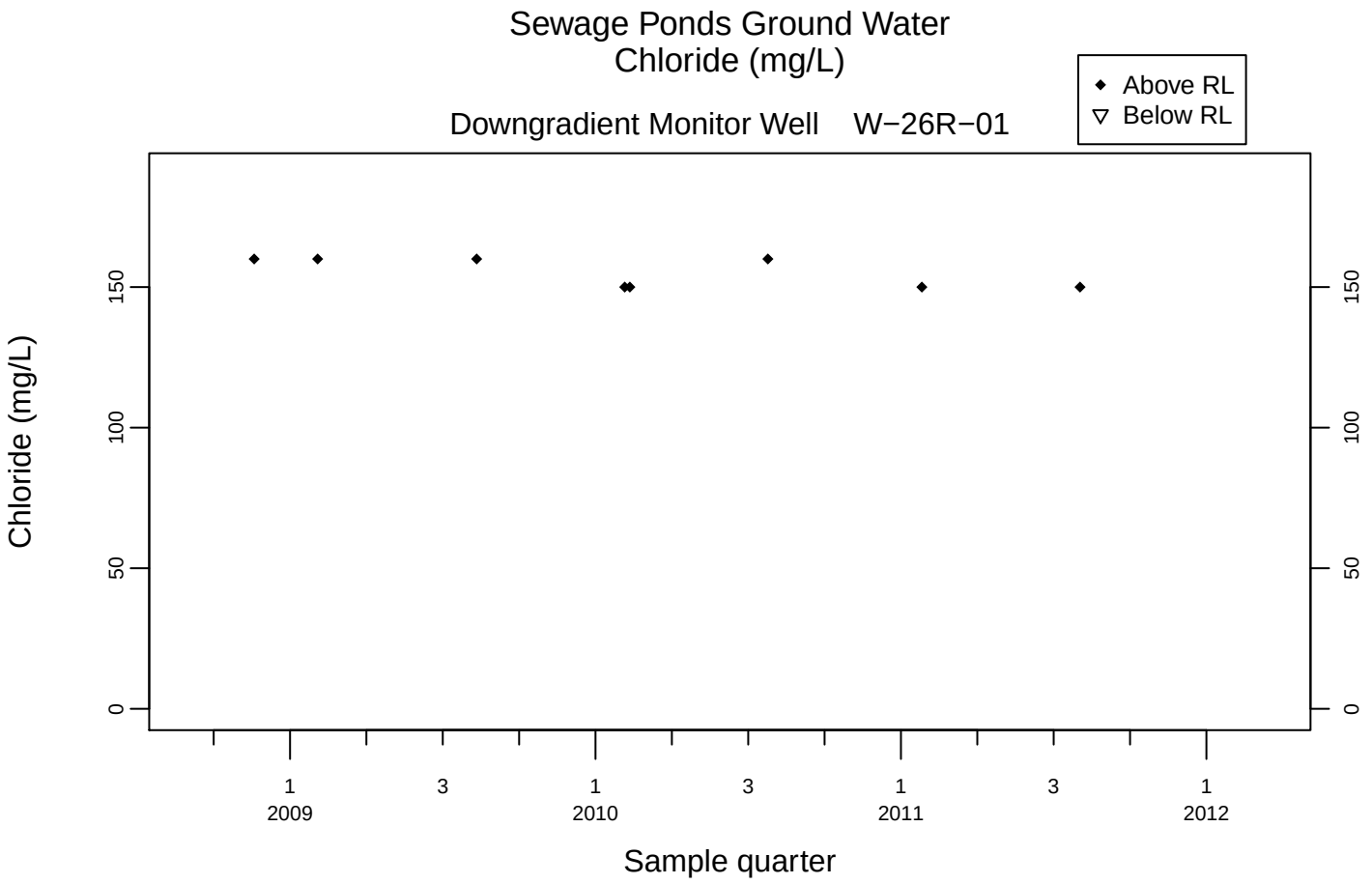

Upgradient Monitor Well W−7PS
Chloride (mg/L)
0
50
100
150
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

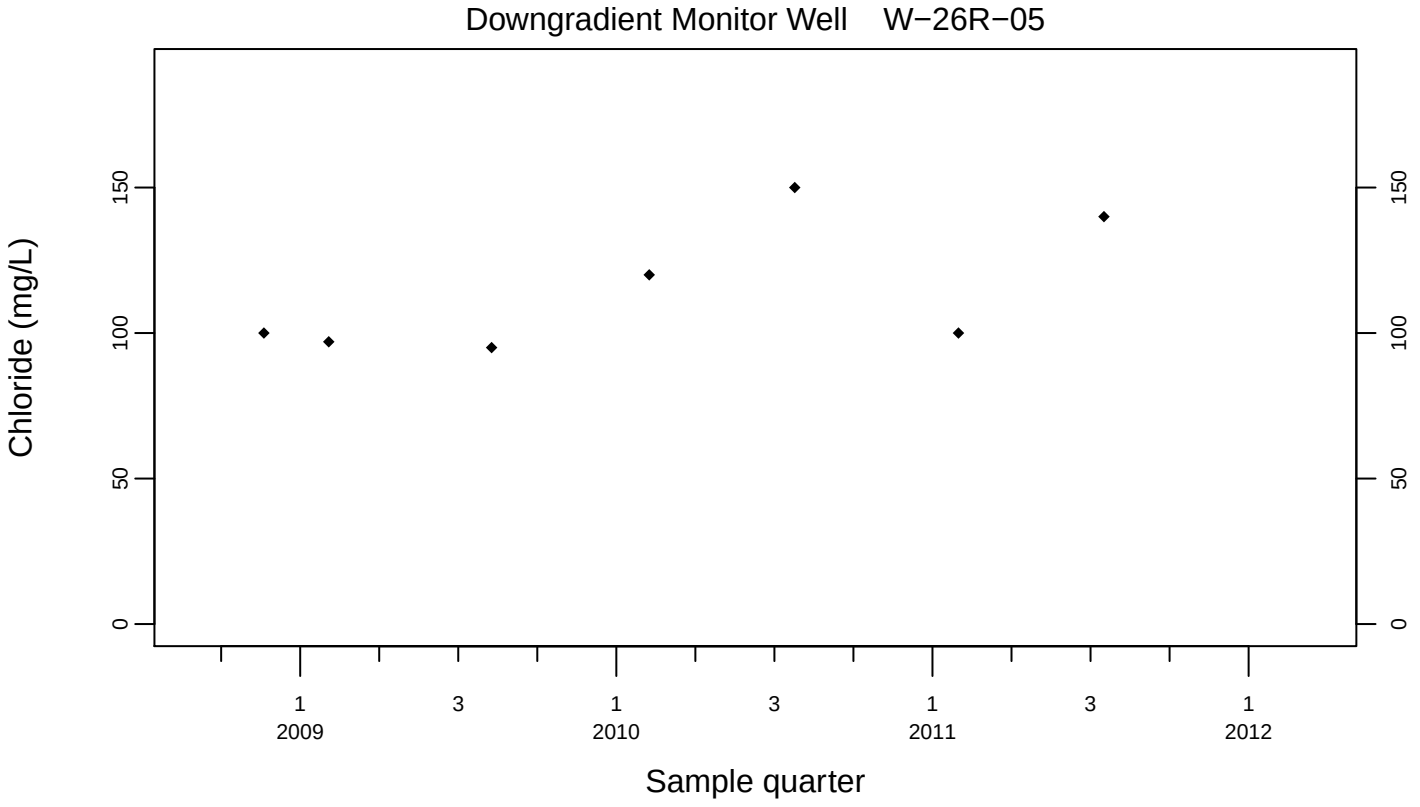

Sewage Ponds Ground Water
Chloride (mg/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Chloride (mg/L)
0
50
100
150
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

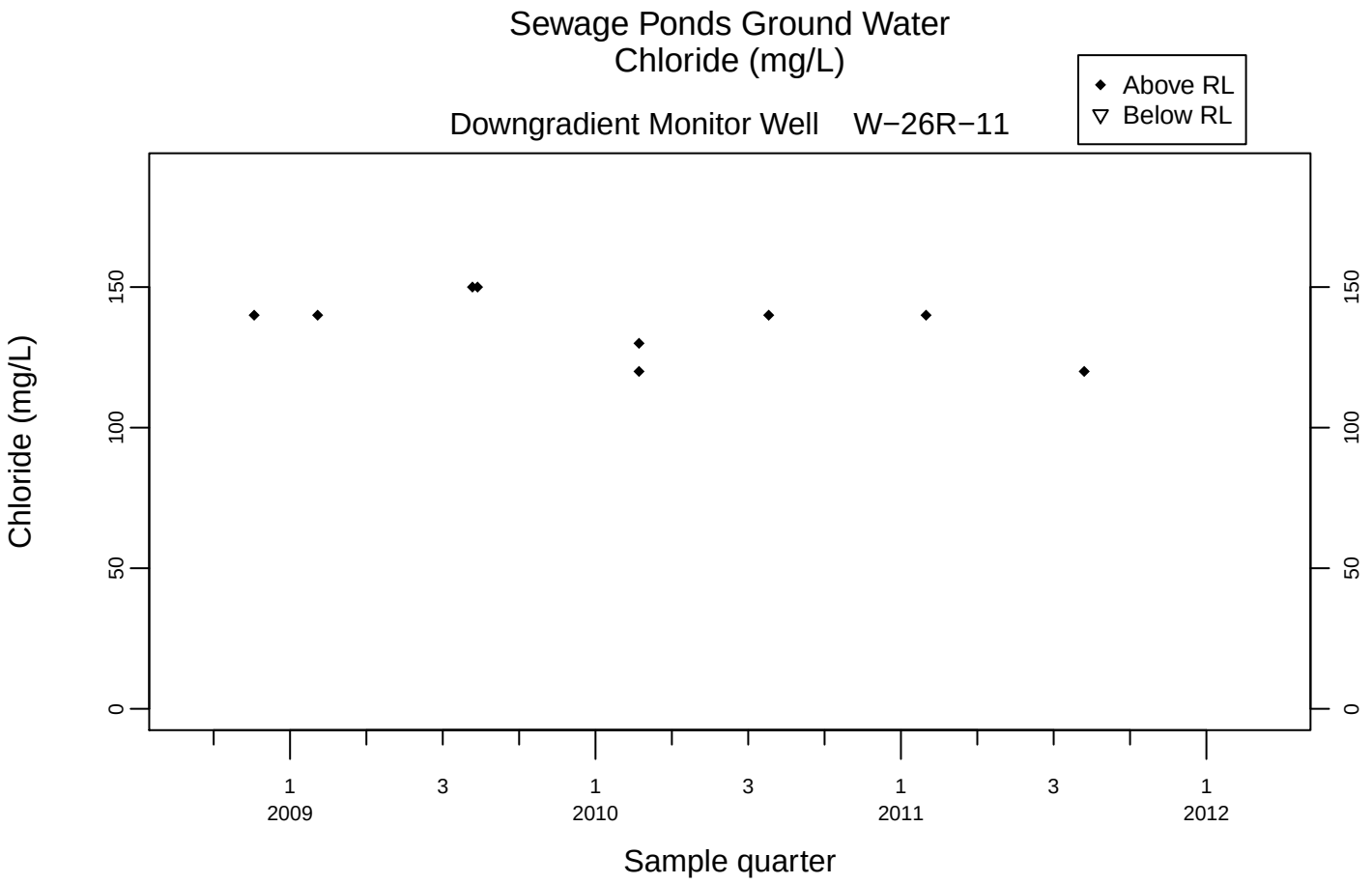

Downgradient Monitor Well W−7DS
Chloride (mg/L)
0
50
100
150
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

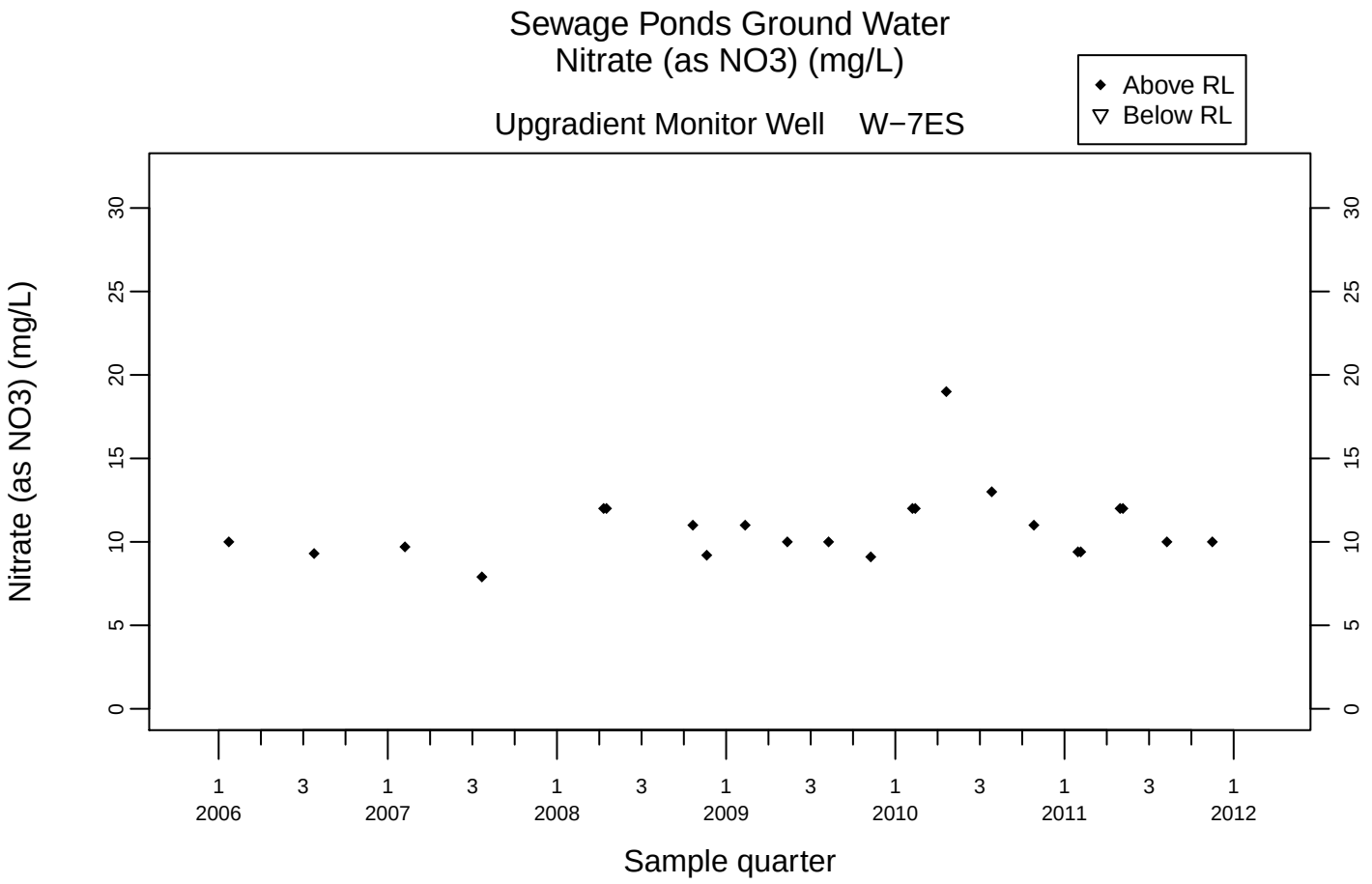

Sewage Ponds Ground Water
Chloride (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Chloride (mg/L)
0
50
100
150
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

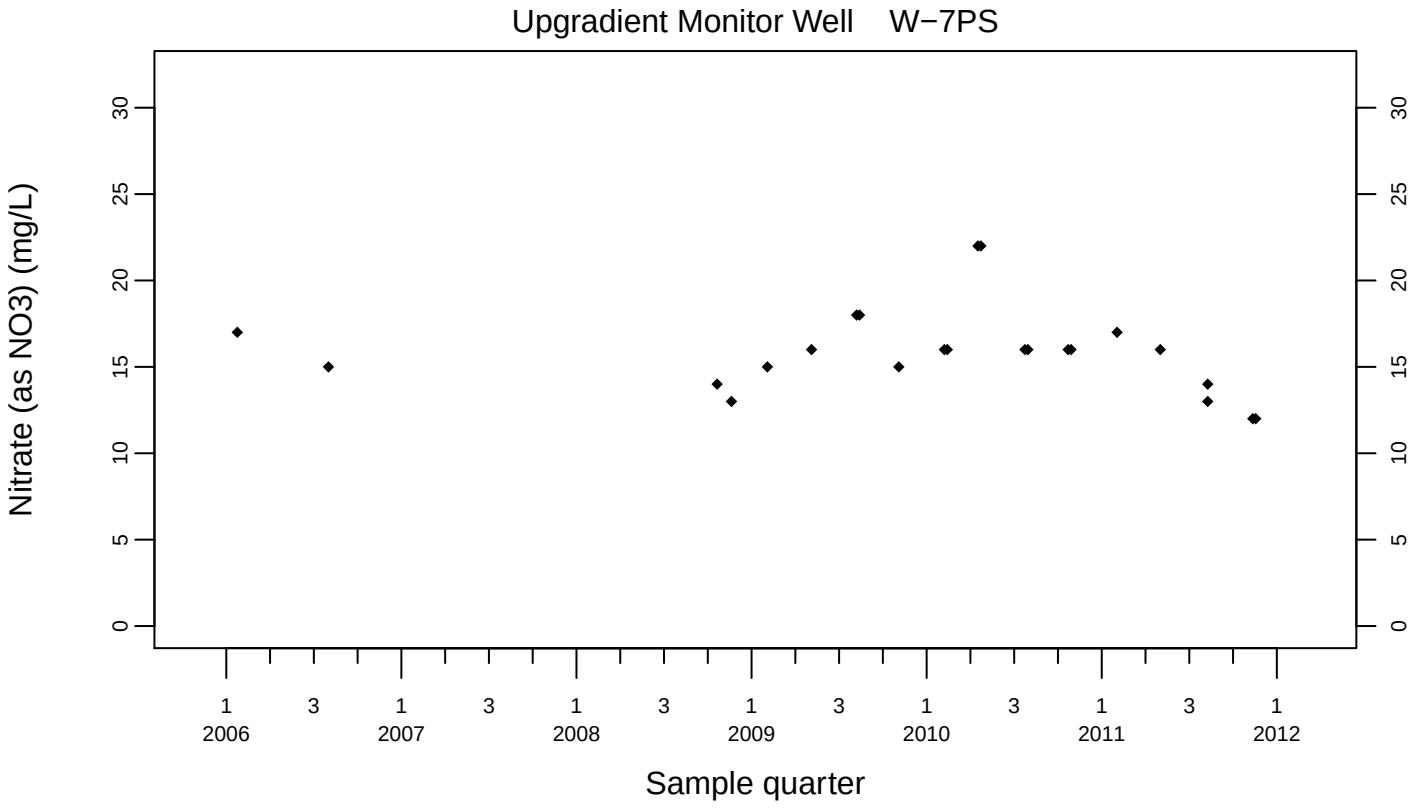

Downgradient Monitor Well W−25N−23
Chloride (mg/L)
0
50
100
150
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

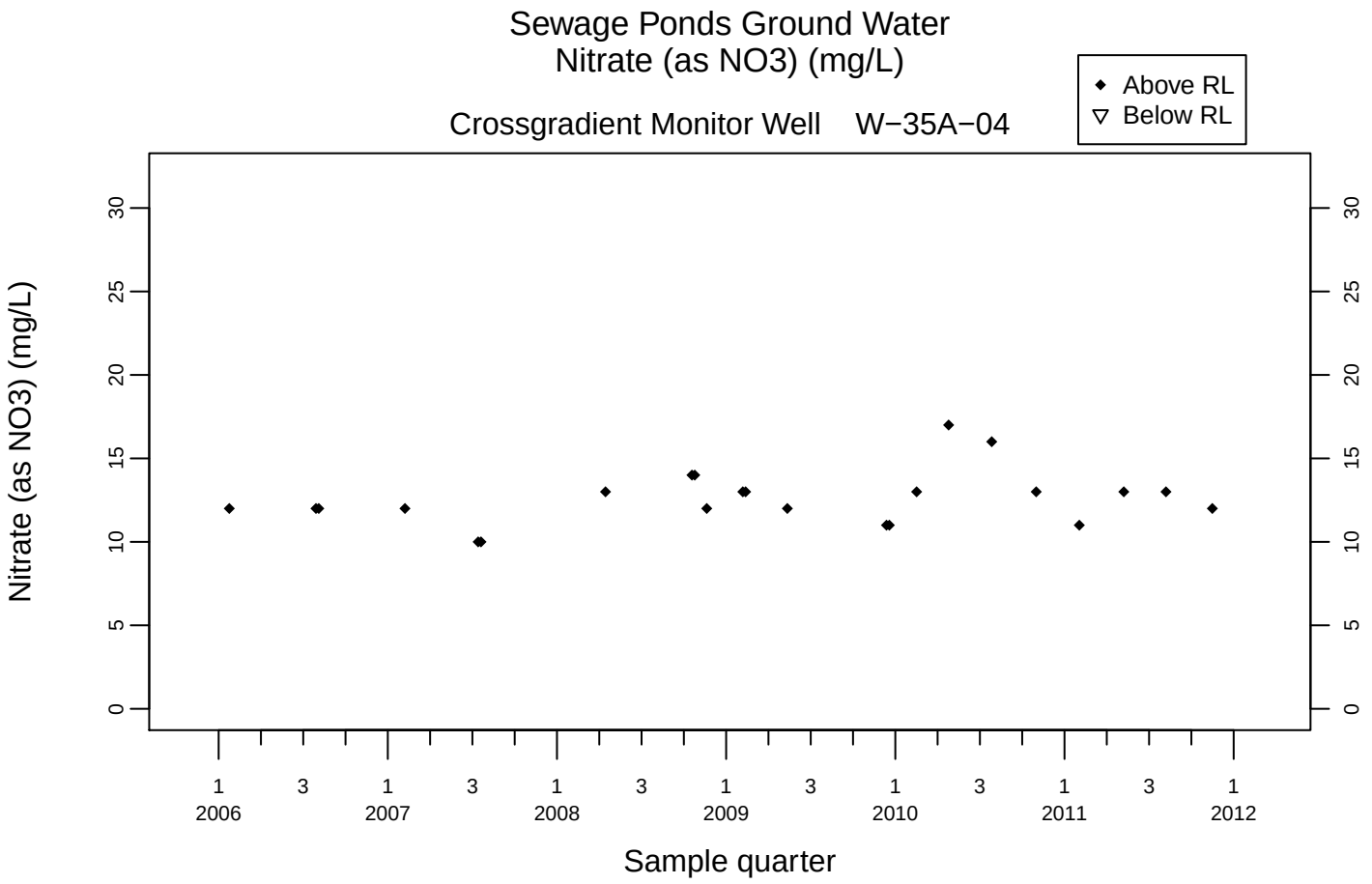

Sewage Ponds Ground Water
Chloride (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Chloride (mg/L)
0
50
100
150
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

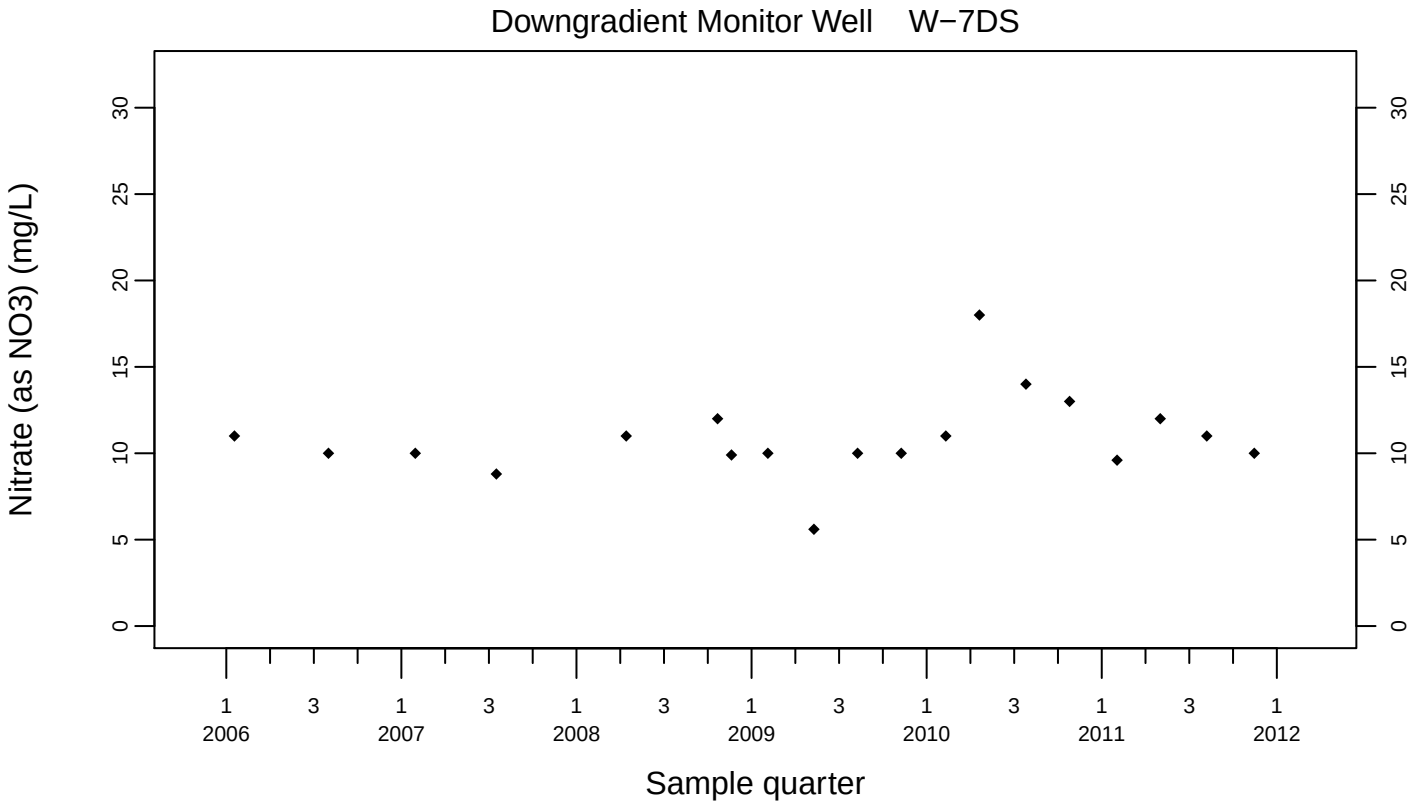

Downgradient Monitor Well W−26R−05
Chloride (mg/L)
0
50
100
150
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

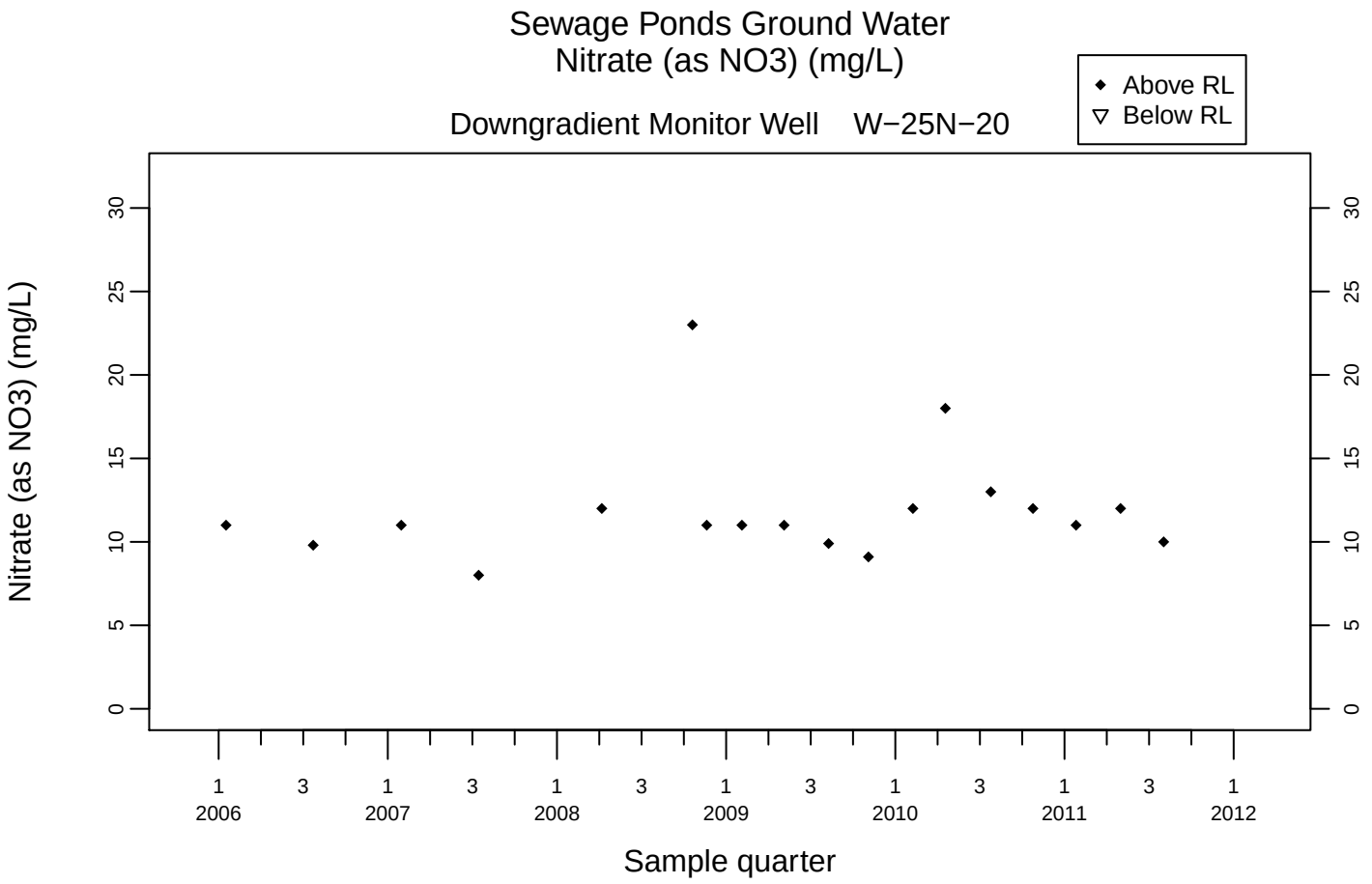

Sewage Ponds Ground Water
Chloride (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Chloride (mg/L)
0
50
100
150
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

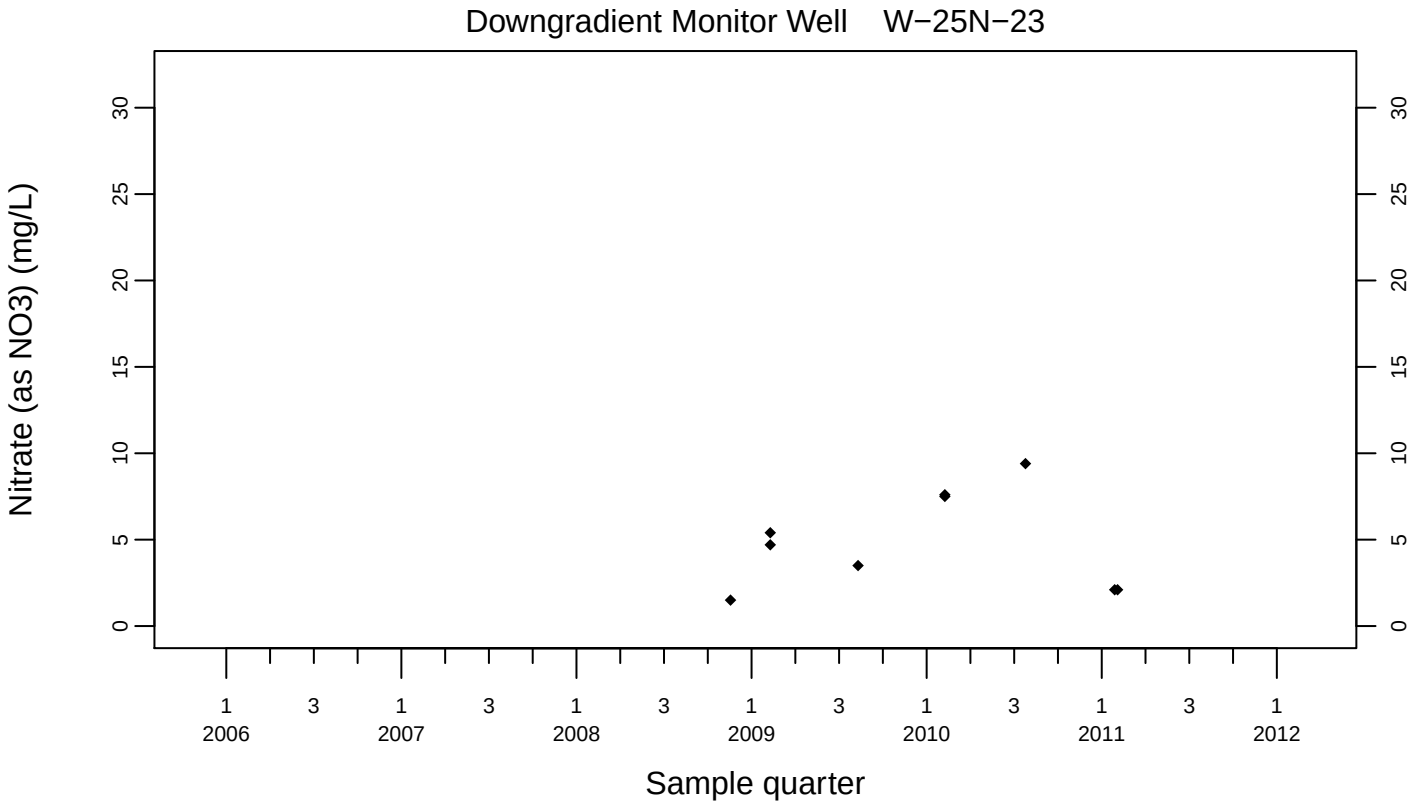

Sewage Ponds Ground Water
Nitrate (as NO3) (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Nitrate (as NO3) (mg/L)
0
5
10
15
20
25
30
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

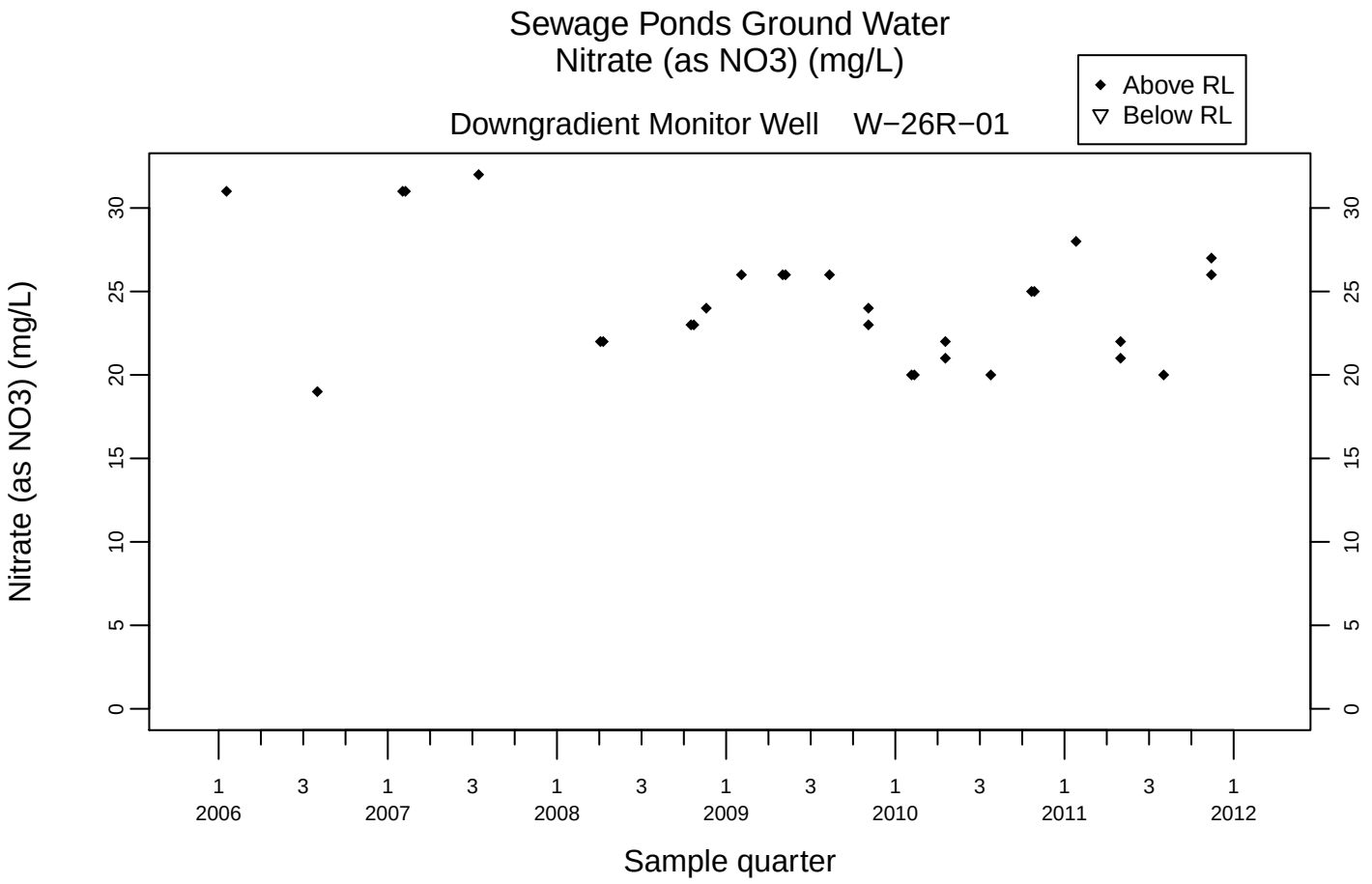

Upgradient Monitor Well W−7PS
Nitrate (as NO3) (mg/L)
0
5
10
15
20
25
30
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

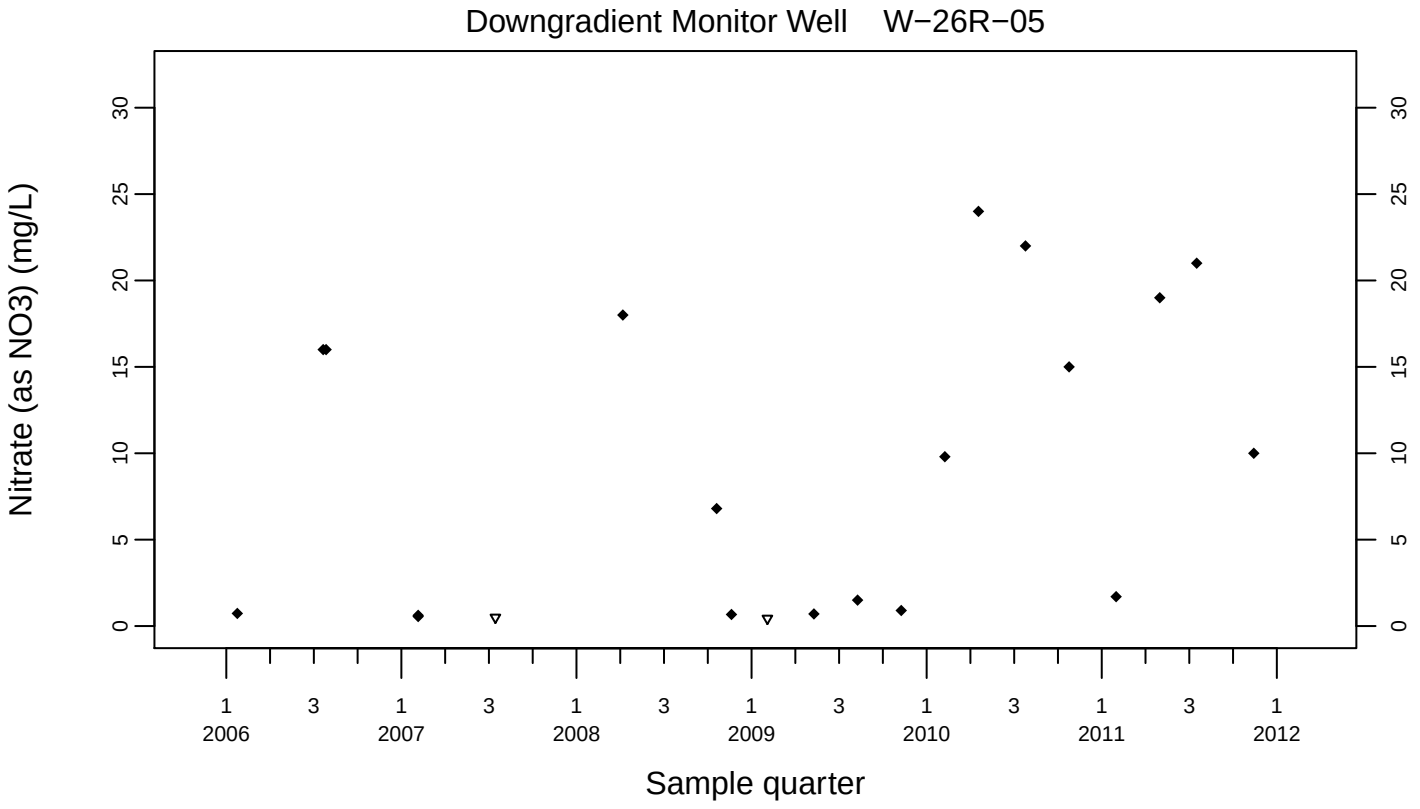

Sewage Ponds Ground Water
Nitrate (as NO3) (mg/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Nitrate (as NO3) (mg/L)
0
5
10
15
20
25
30
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

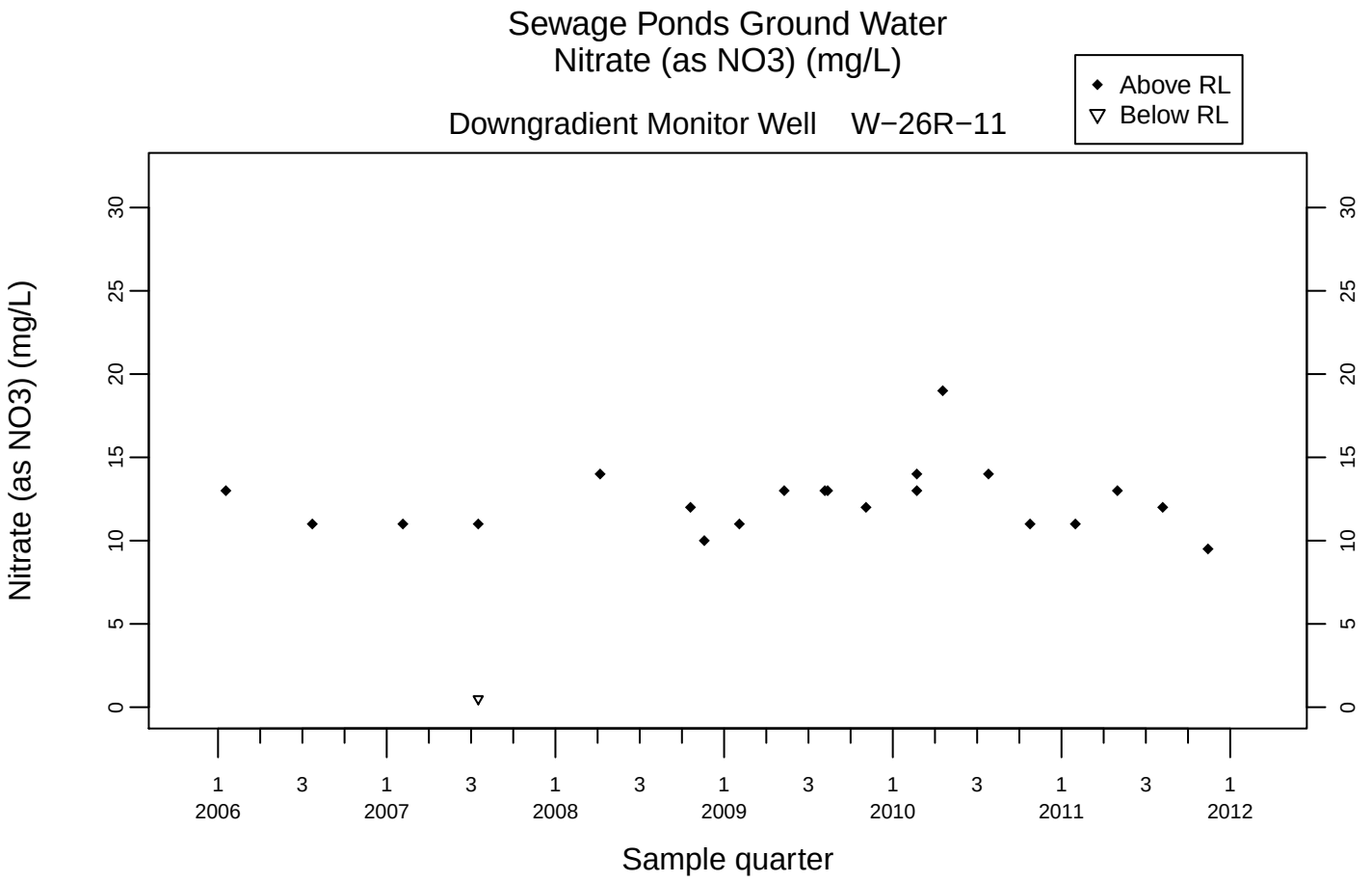

Downgradient Monitor Well W−7DS
Nitrate (as NO3) (mg/L)
0
5
10
15
20
25
30
1 3 1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011 2012
Sample quarter

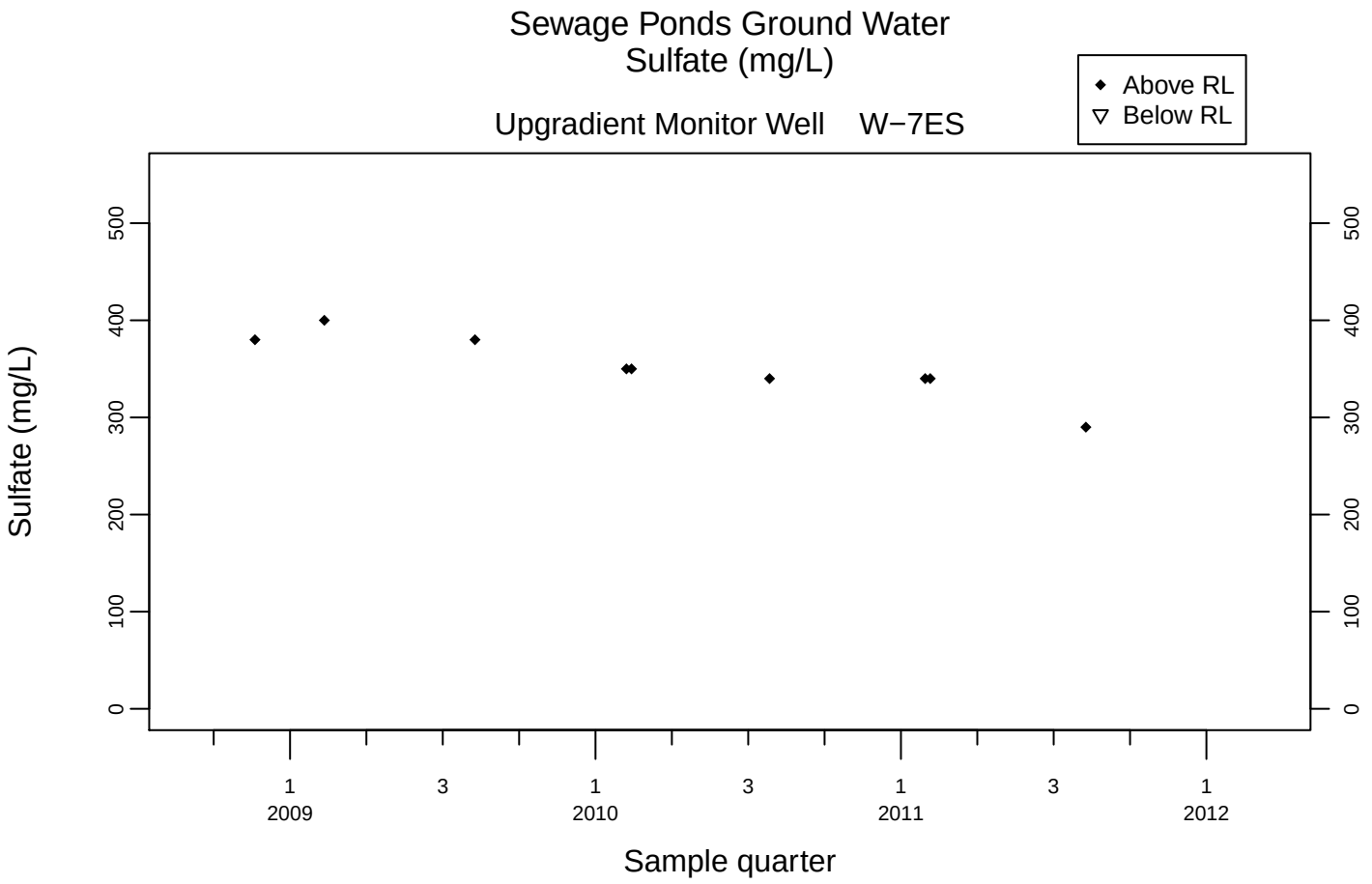

Sewage Ponds Ground Water
Nitrate (as NO3) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Nitrate (as NO3) (mg/L)
0
5
10
15
20
25
30
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

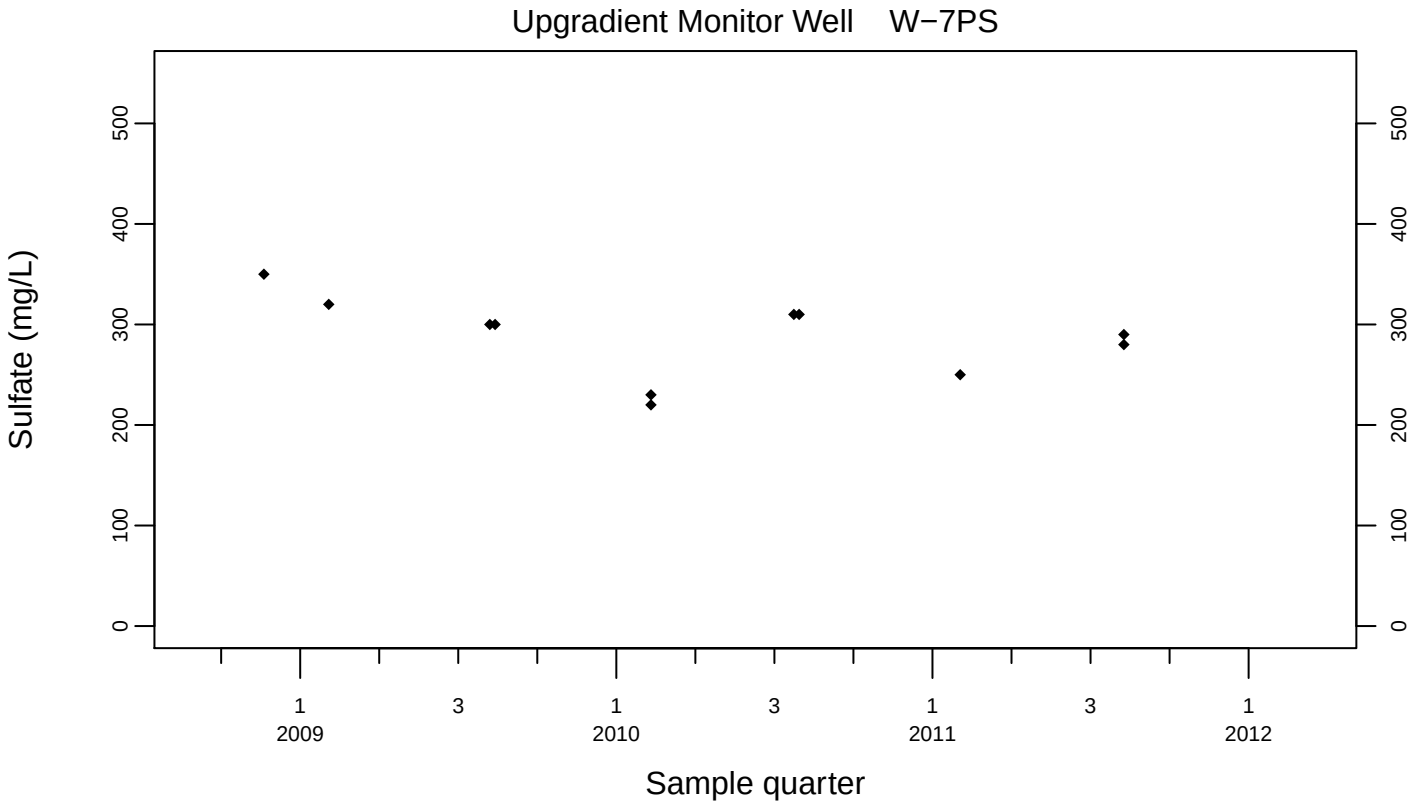

Downgradient Monitor Well W−25N−23
Nitrate (as NO3) (mg/L)
0
5
10
15
20
25
30
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

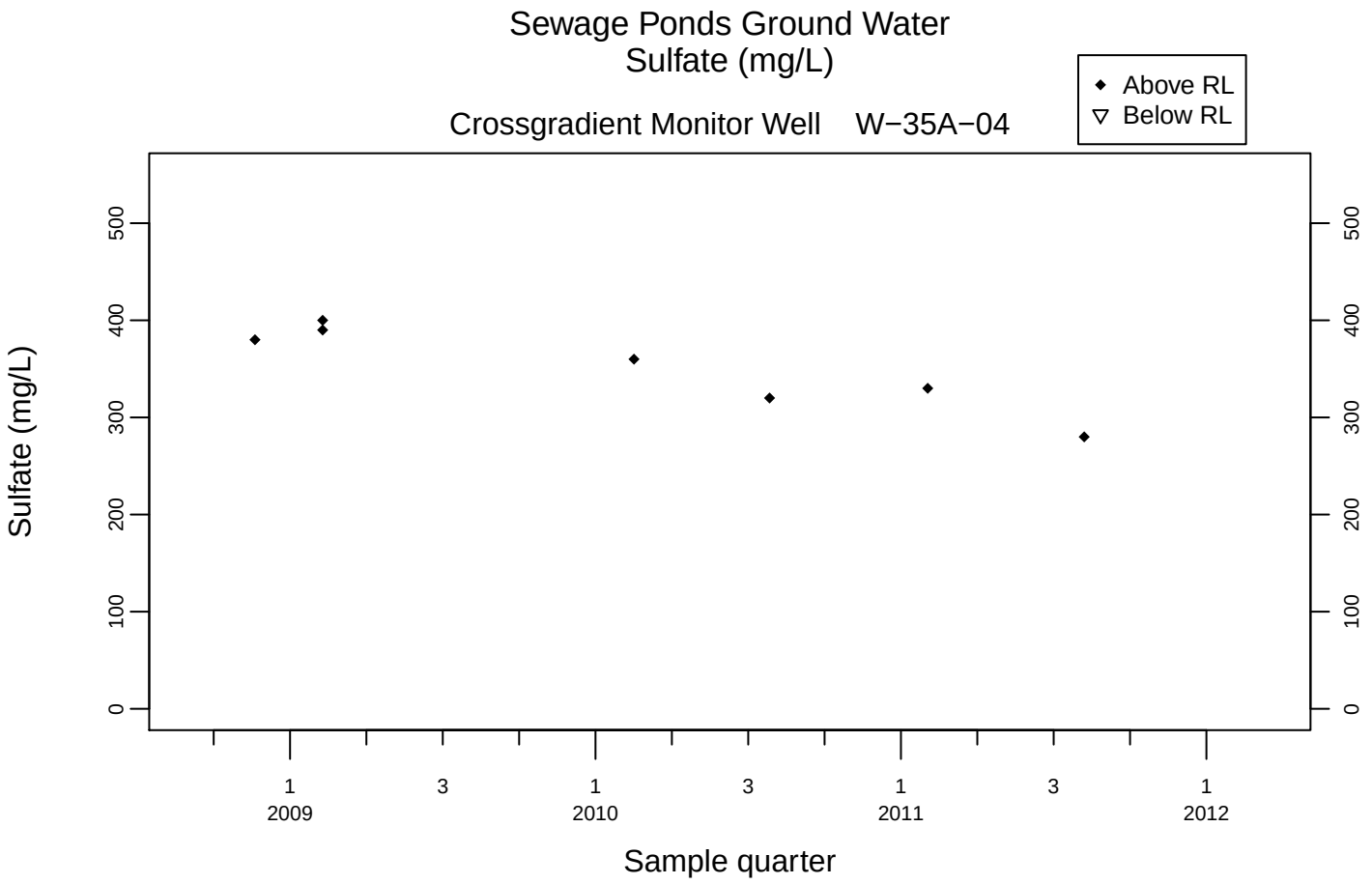

Sewage Ponds Ground Water
Nitrate (as NO3) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Nitrate (as NO3) (mg/L)
0
5
10
15
20
25
30
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

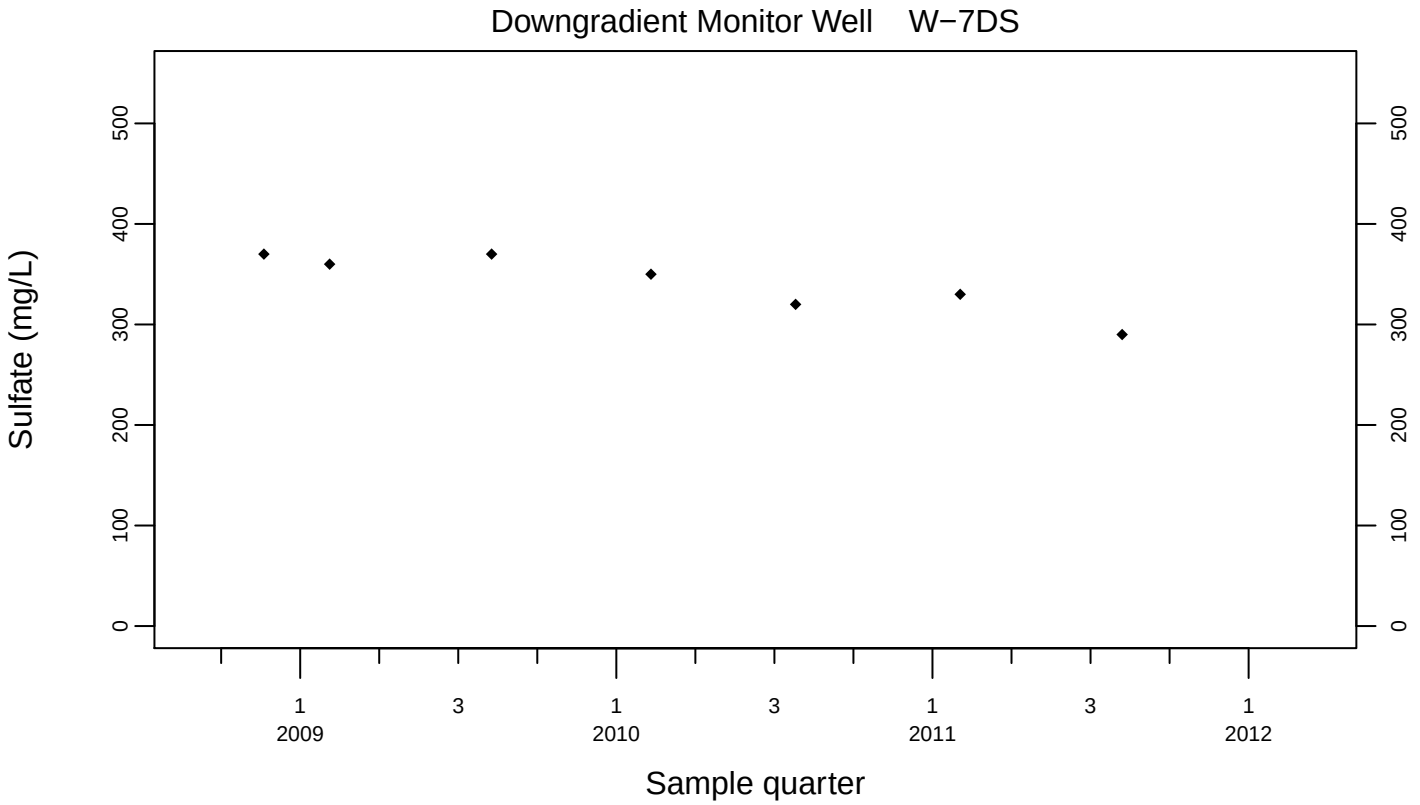

Downgradient Monitor Well W−26R−05
Nitrate (as NO3) (mg/L)
0
5
10
15
20
25
30
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
3
1 2012
Sample quarter

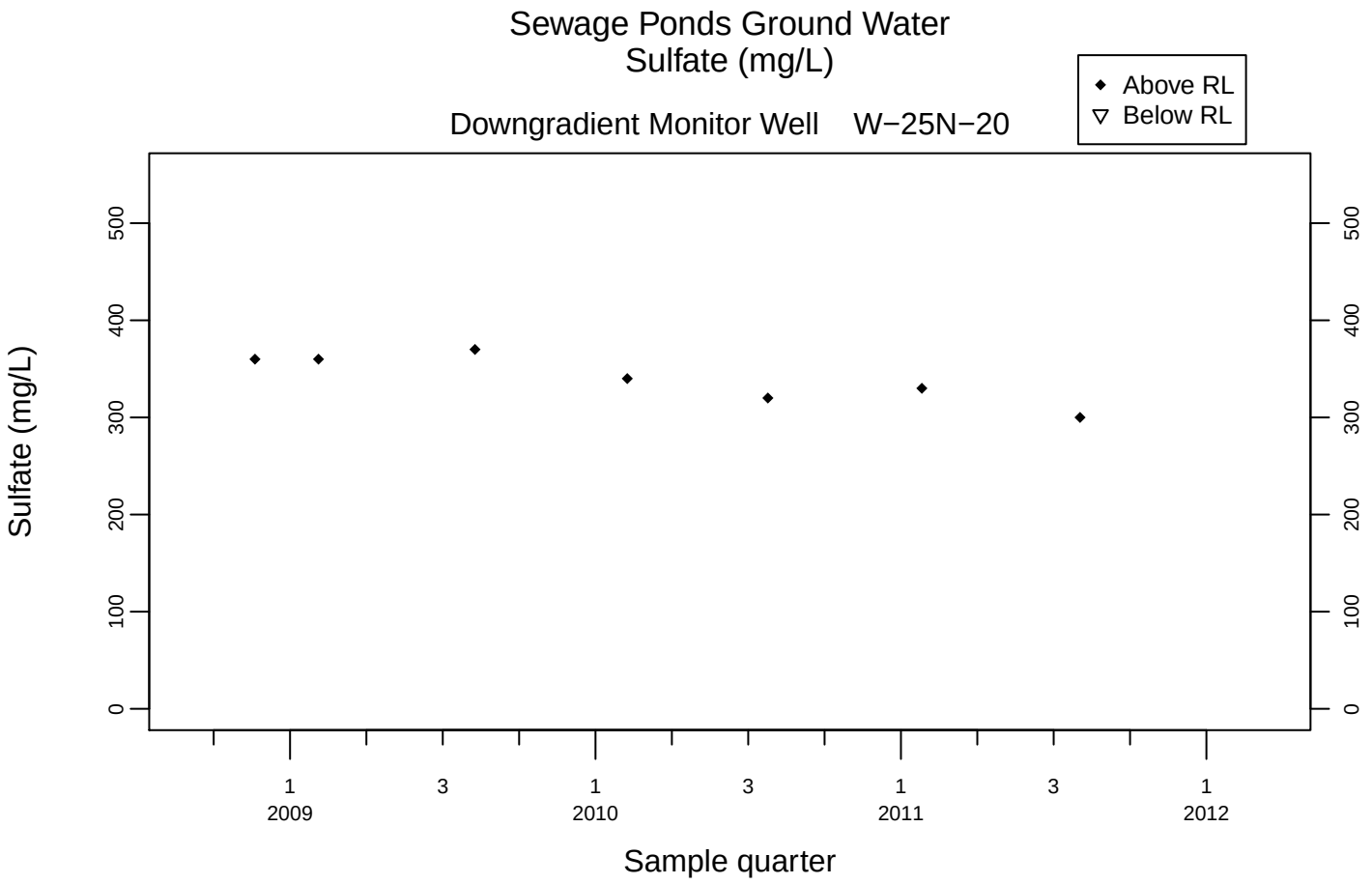

Sewage Ponds Ground Water
Nitrate (as NO3) (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Nitrate (as NO3) (mg/L)
0
5
10
15
20
25
30
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

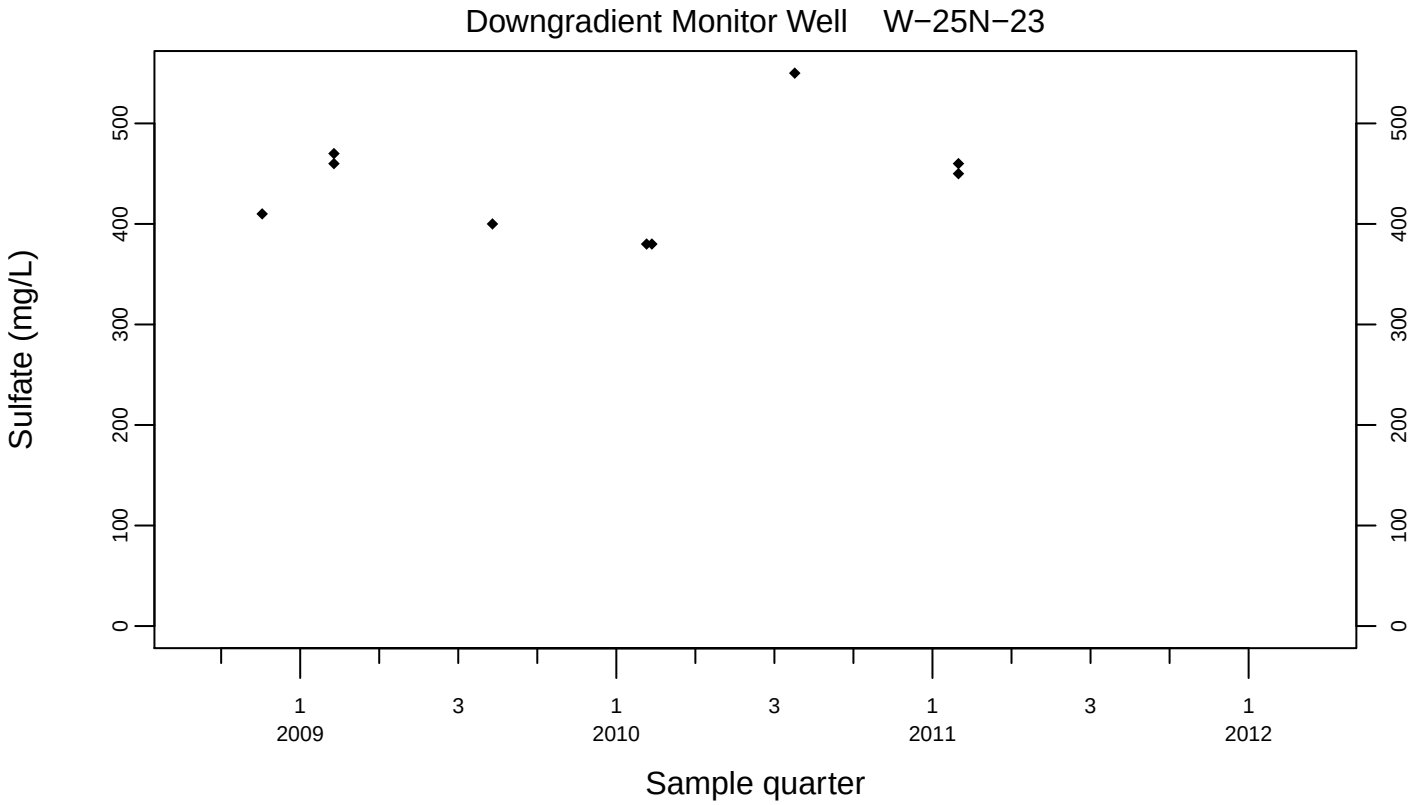

Sewage Ponds Ground Water
Sulfate (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Sulfate (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

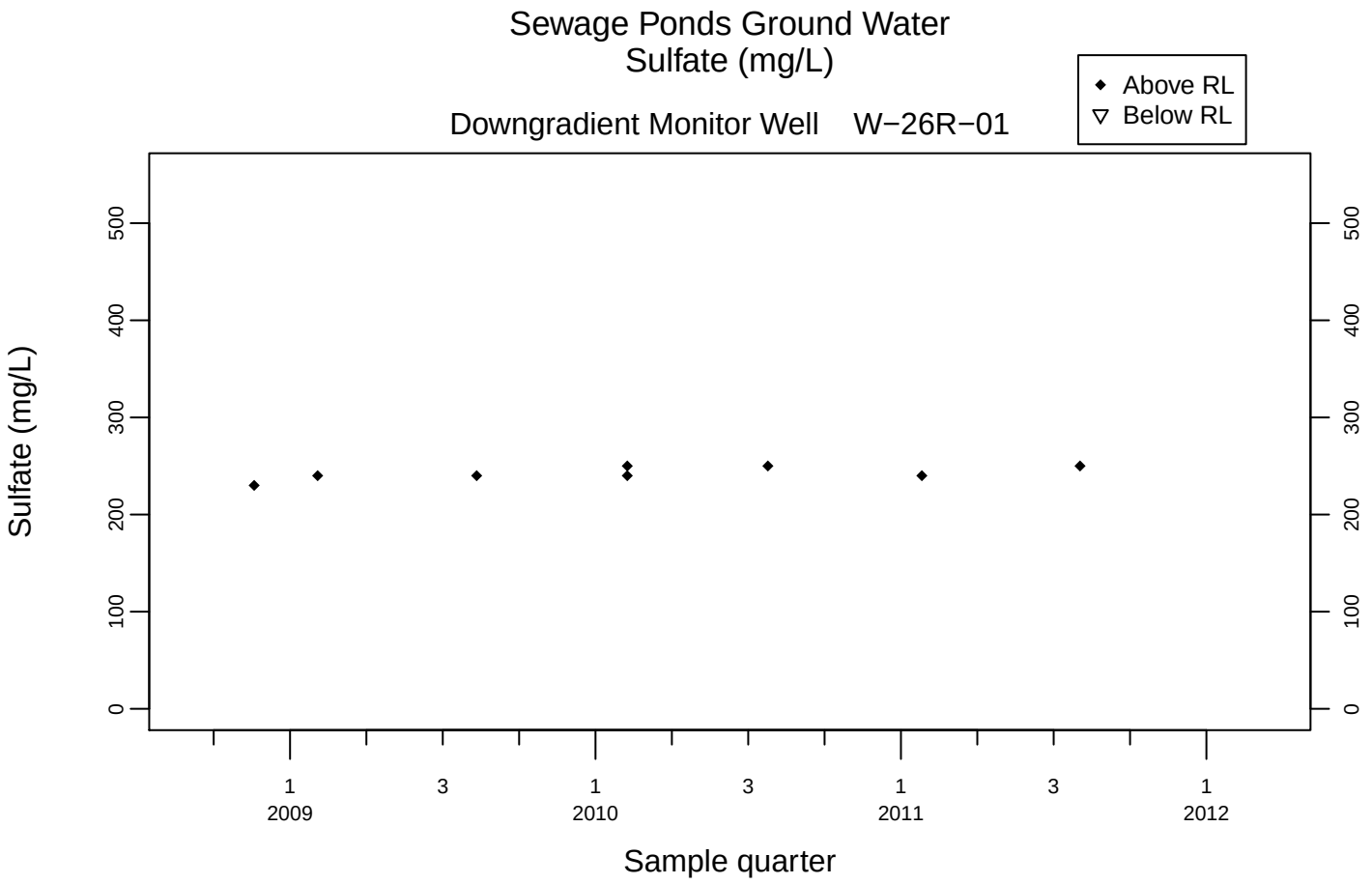

Upgradient Monitor Well W−7PS
Sulfate (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

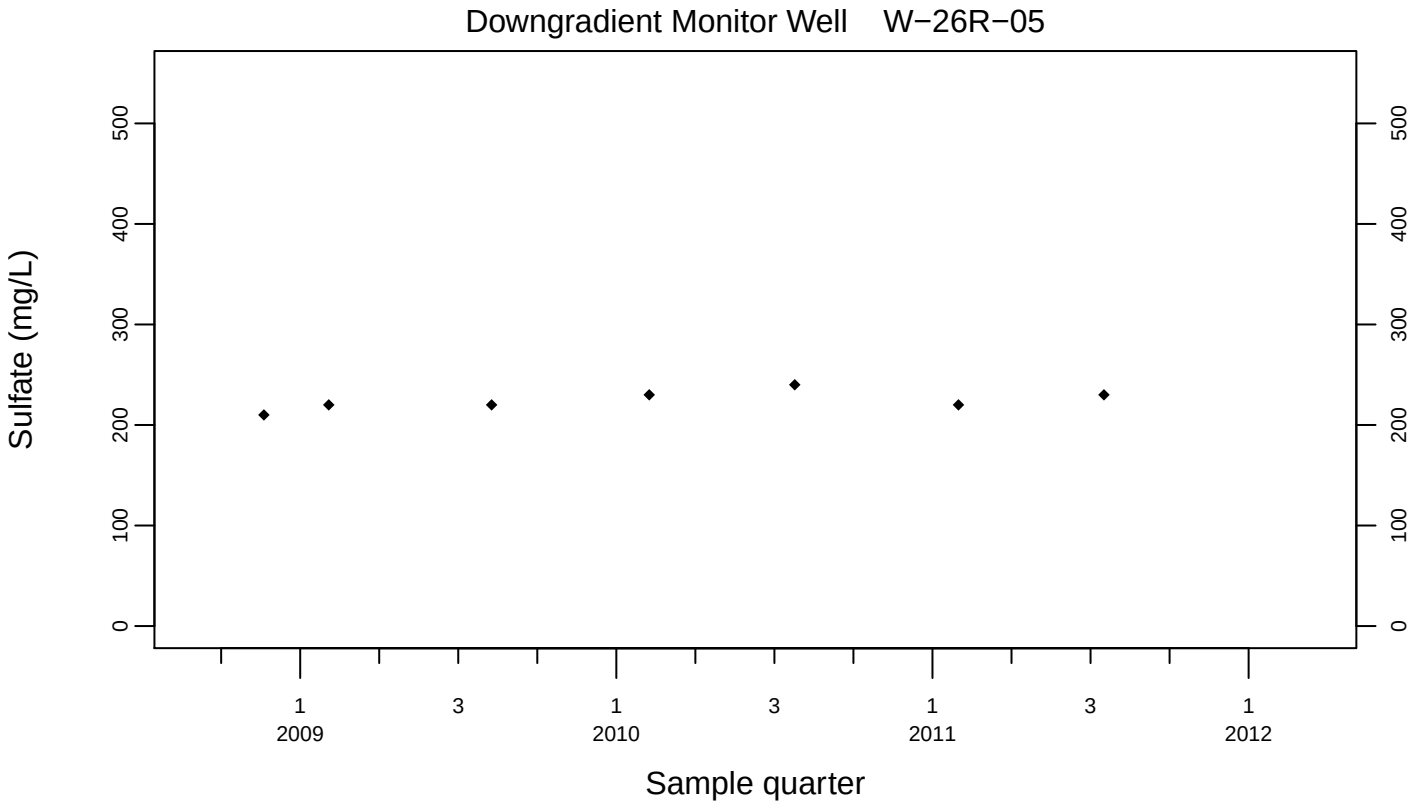

Sewage Ponds Ground Water
Sulfate (mg/L)
Crossgradient Monitor Well W−35A−04
Above RL
Below RL
Sulfate (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

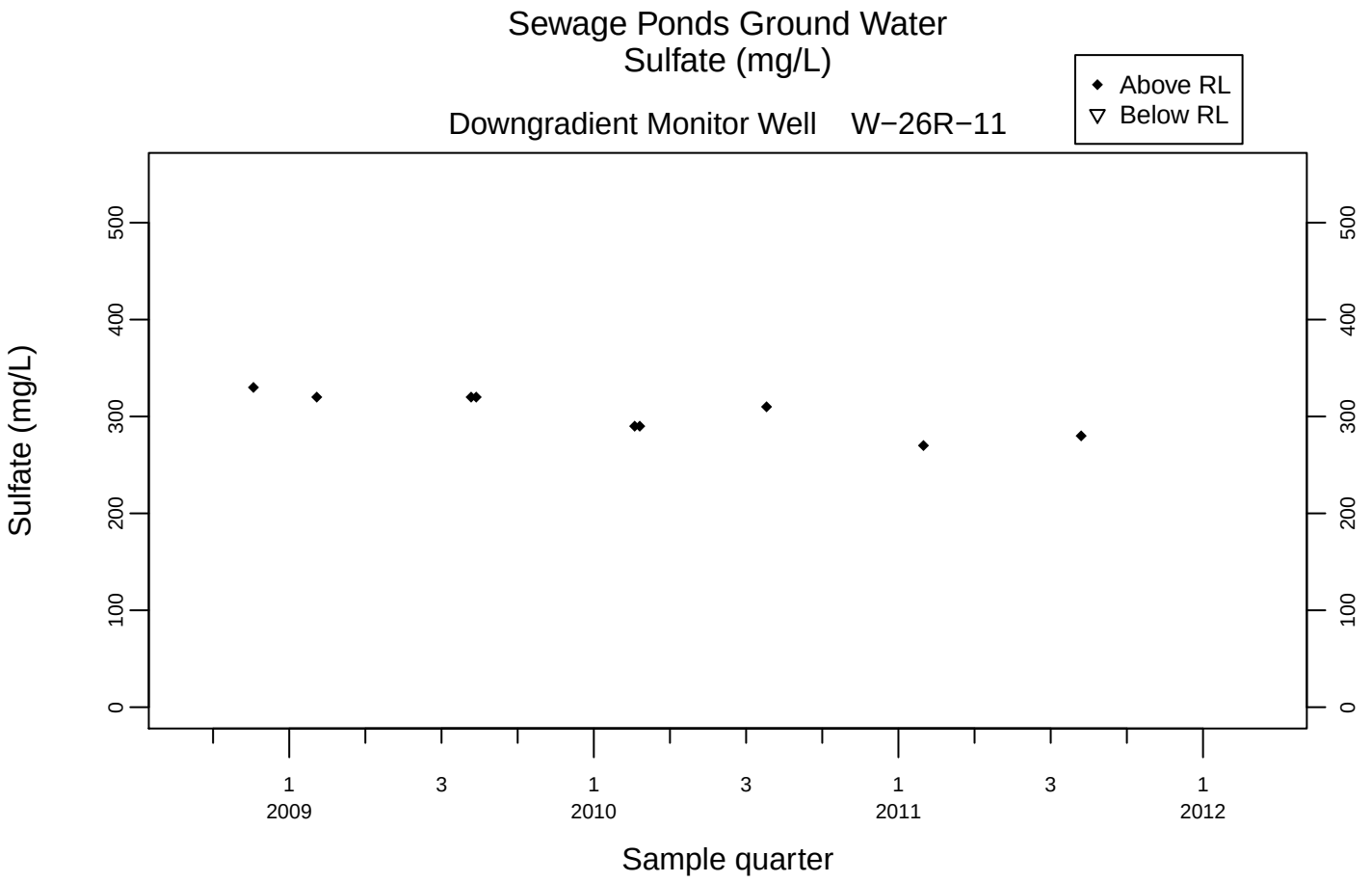

Downgradient Monitor Well W−7DS
Sulfate (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

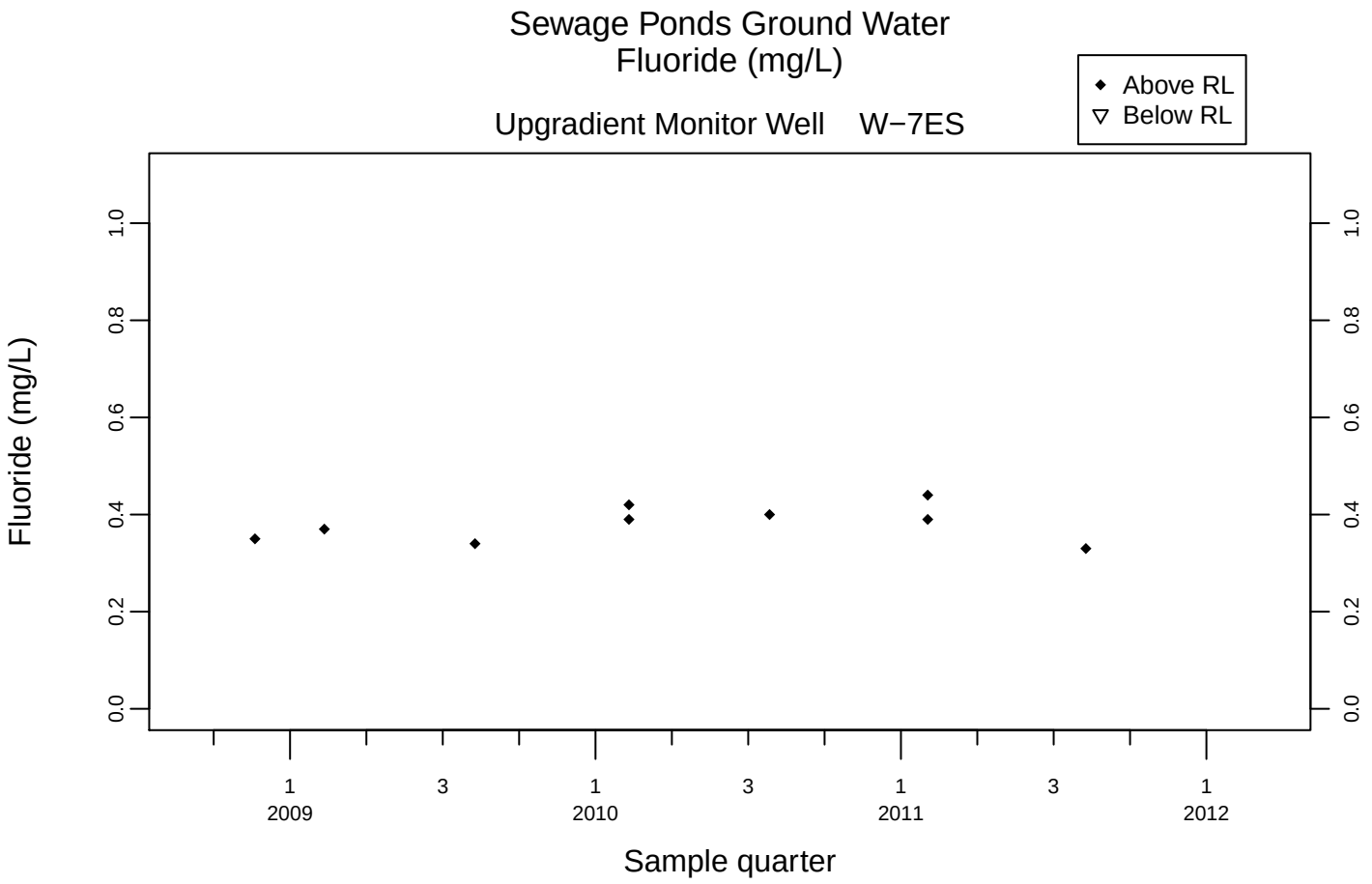

Sewage Ponds Ground Water
Sulfate (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Sulfate (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

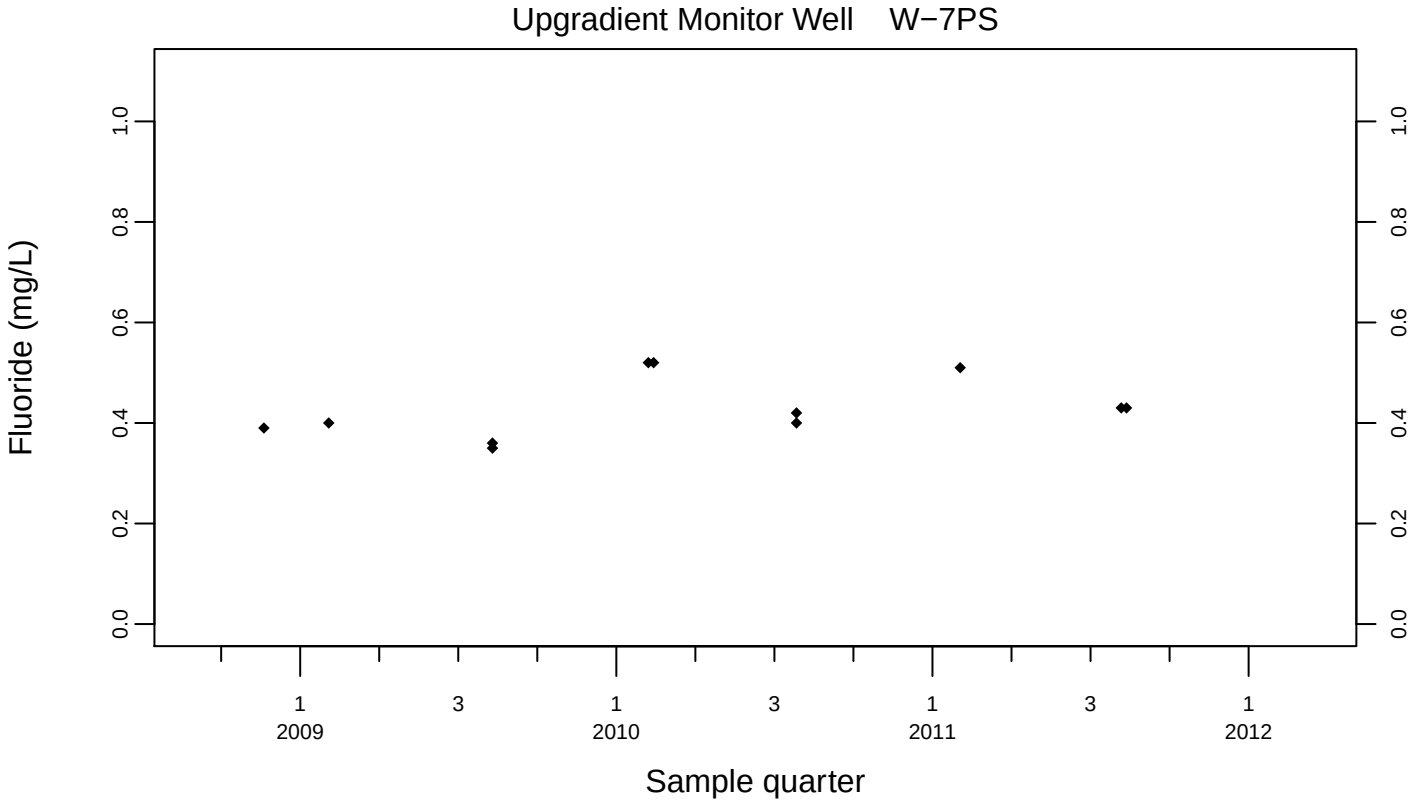

Downgradient Monitor Well W−25N−23
Sulfate (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

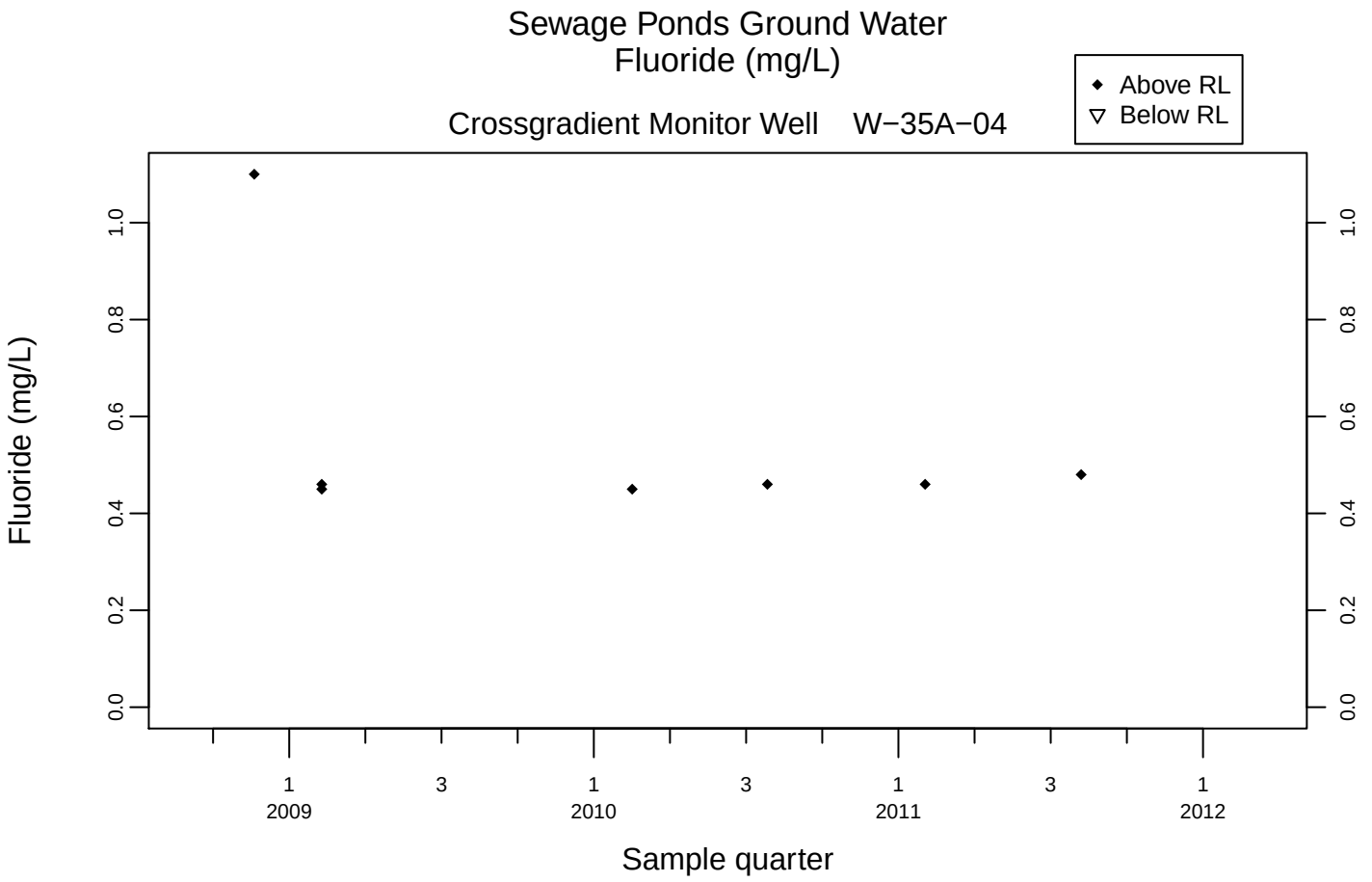

Sewage Ponds Ground Water
Sulfate (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Sulfate (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

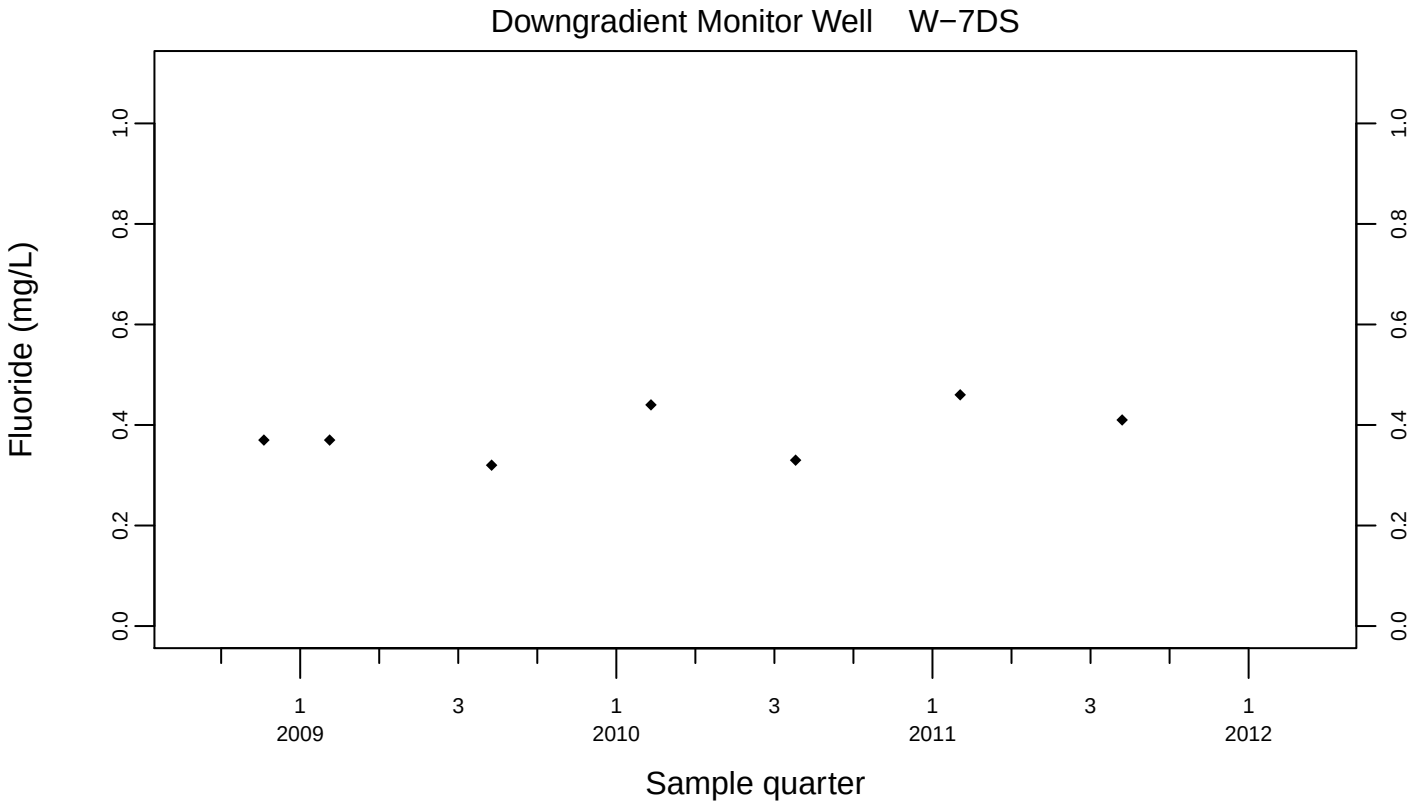

Downgradient Monitor Well W−26R−05
Sulfate (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

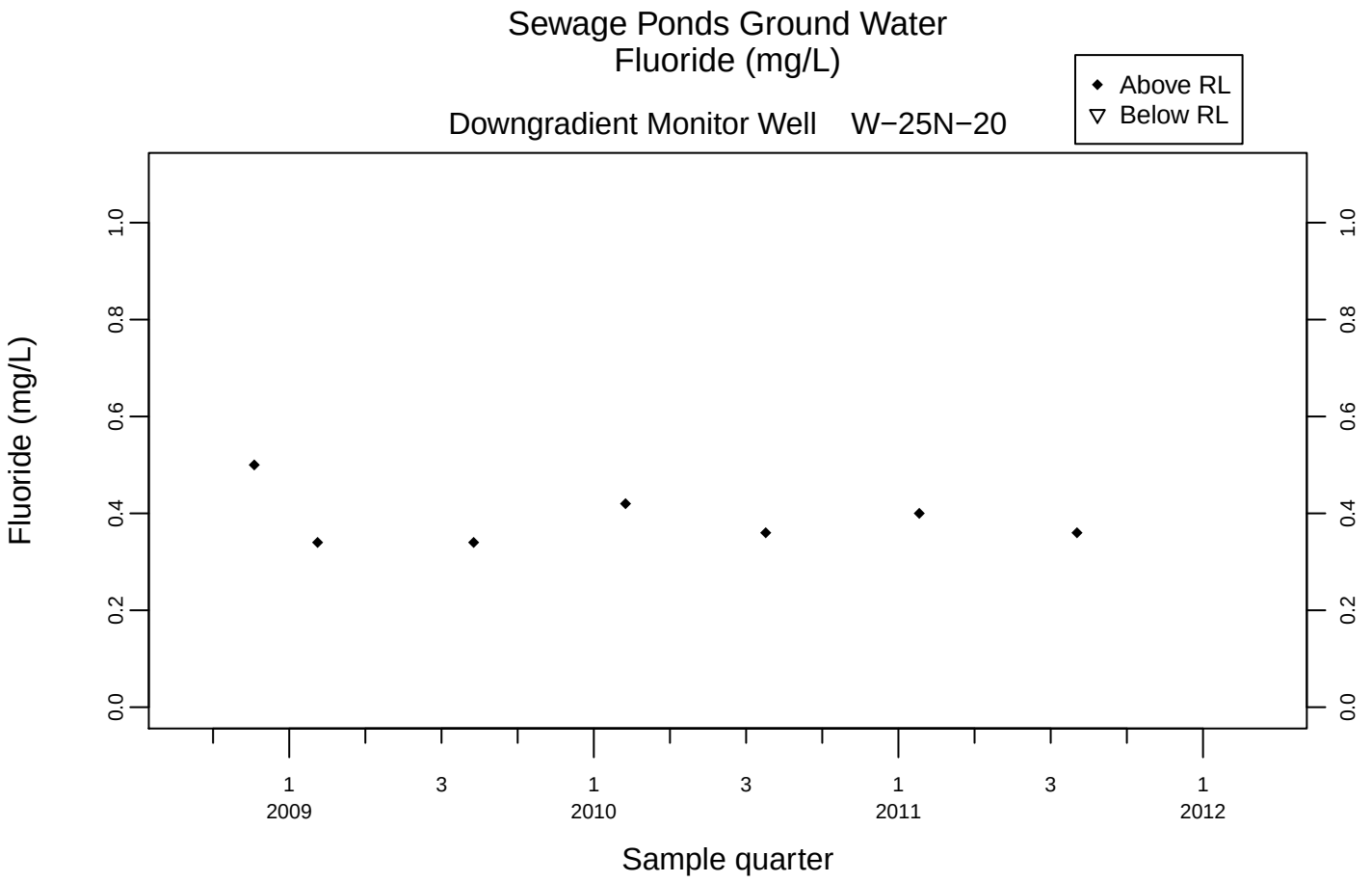

Sewage Ponds Ground Water
Sulfate (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Sulfate (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

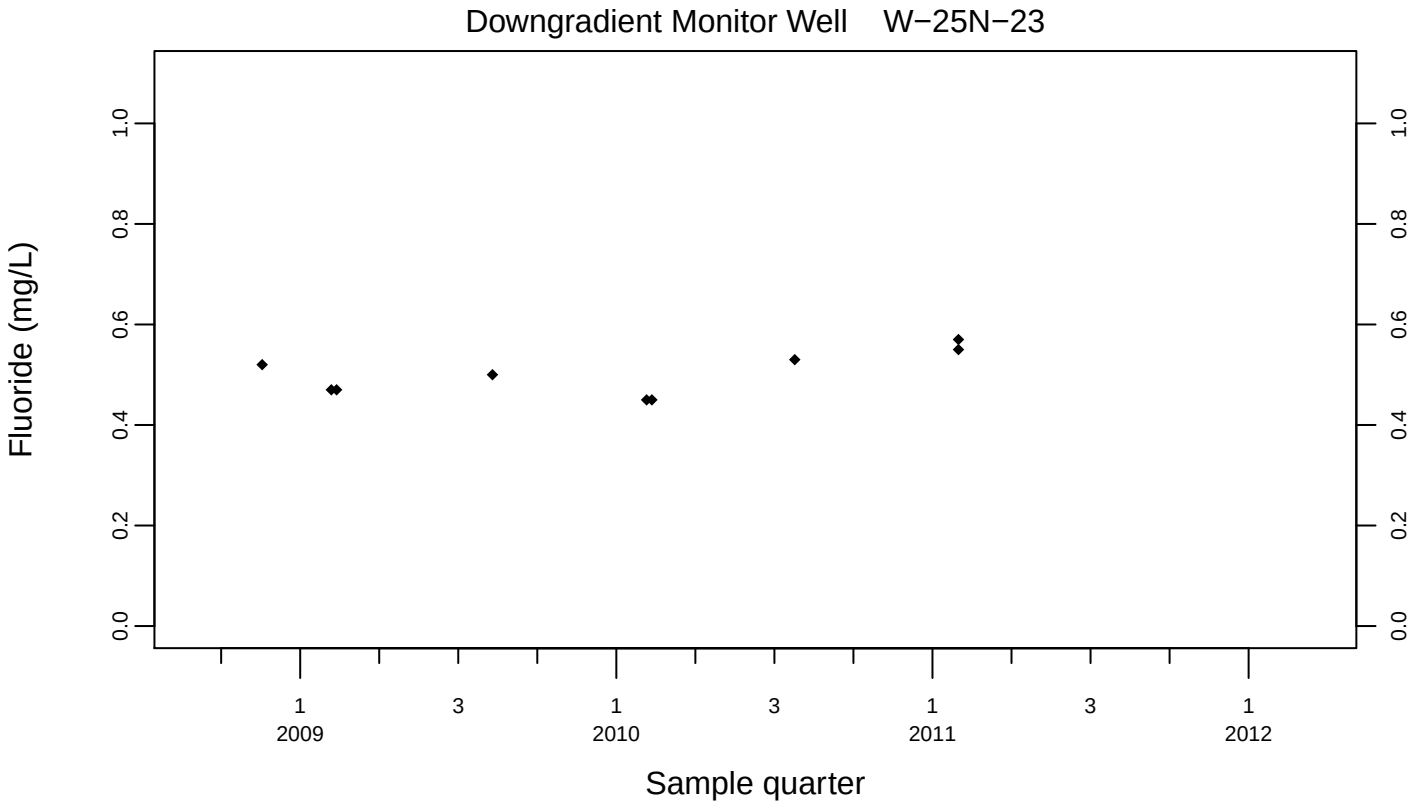

Sewage Ponds Ground Water
Fluoride (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

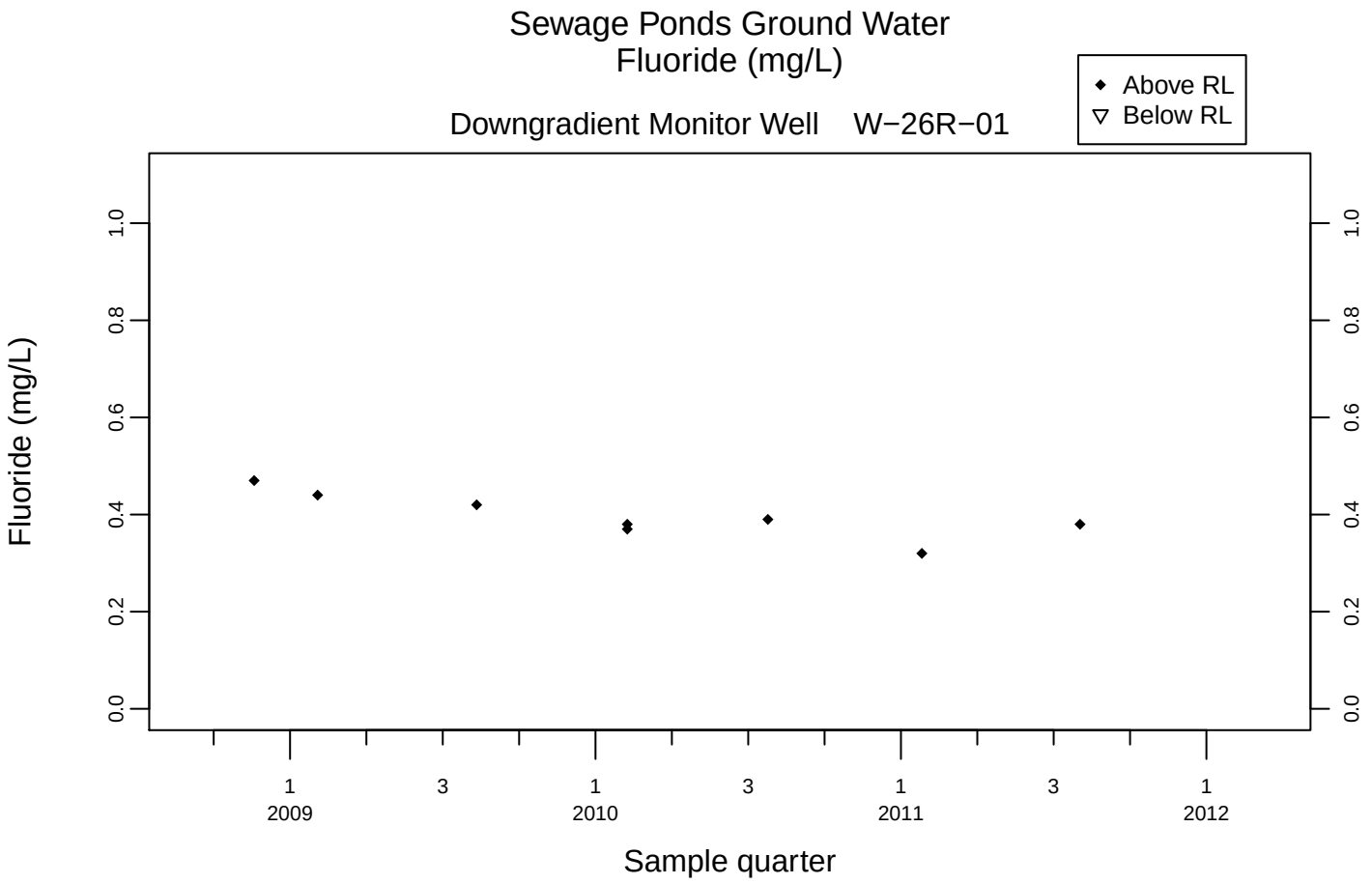

Upgradient Monitor Well W−7PS
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

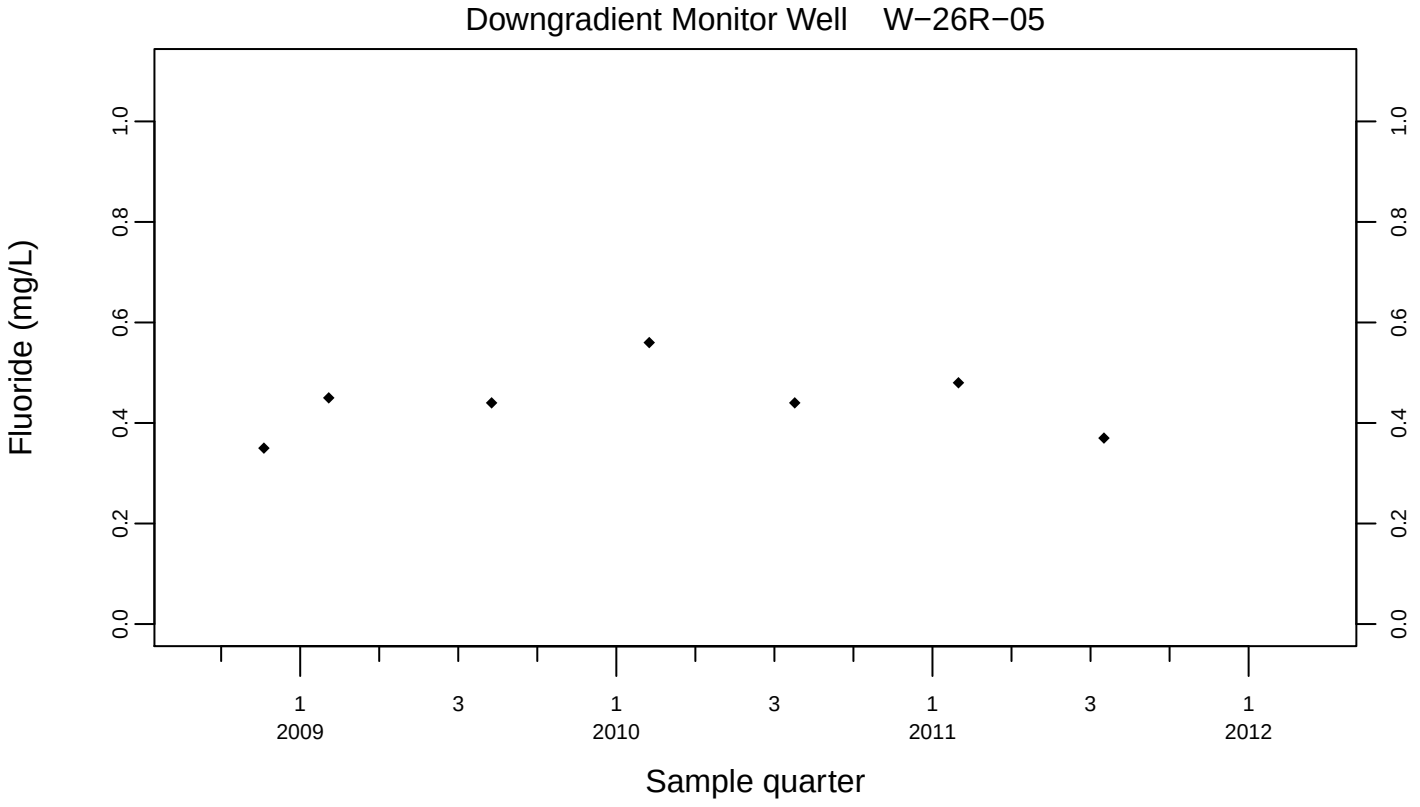

Sewage Ponds Ground Water
Fluoride (mg/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

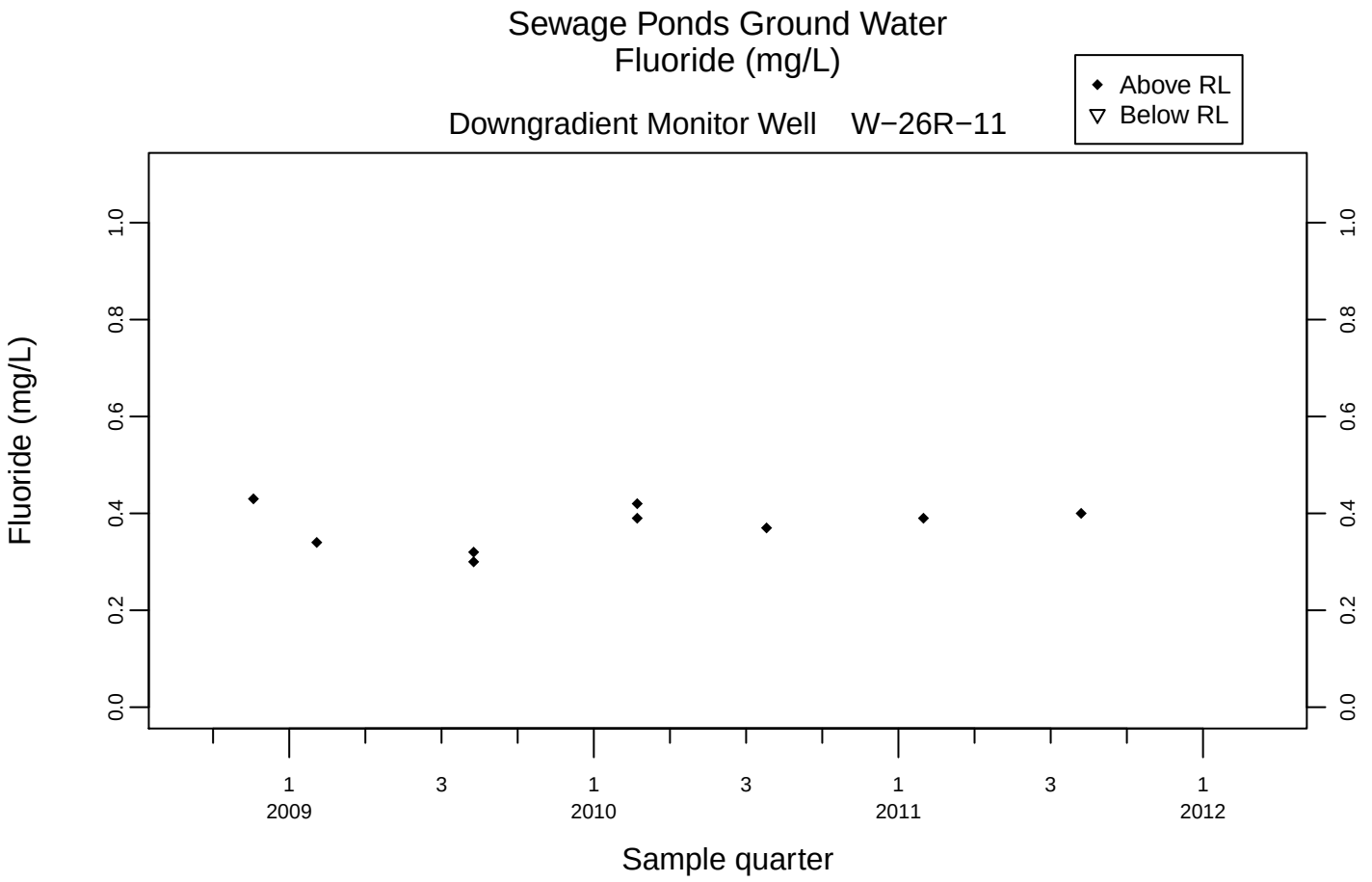

Downgradient Monitor Well W−7DS
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

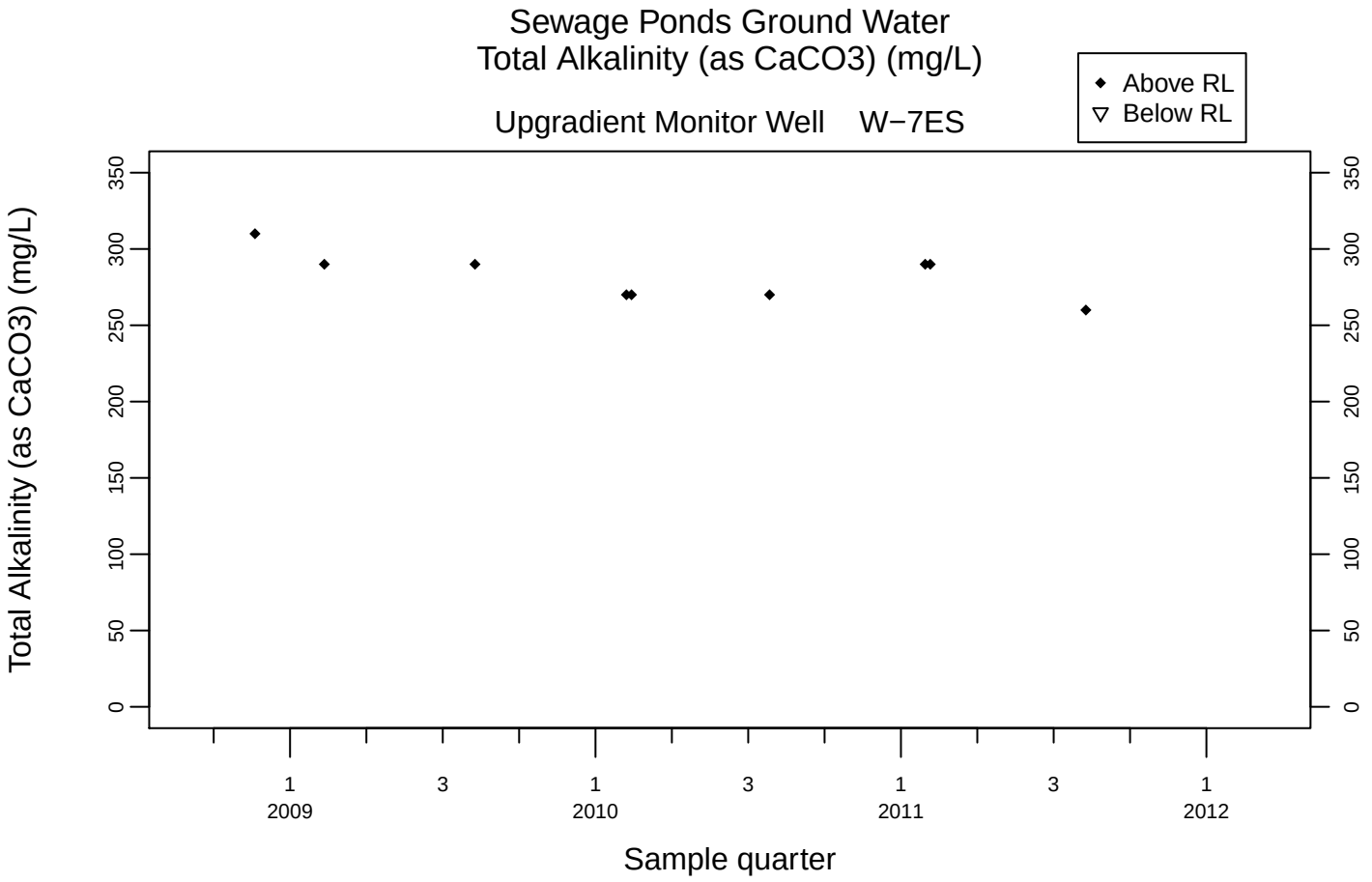

Sewage Ponds Ground Water
Fluoride (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

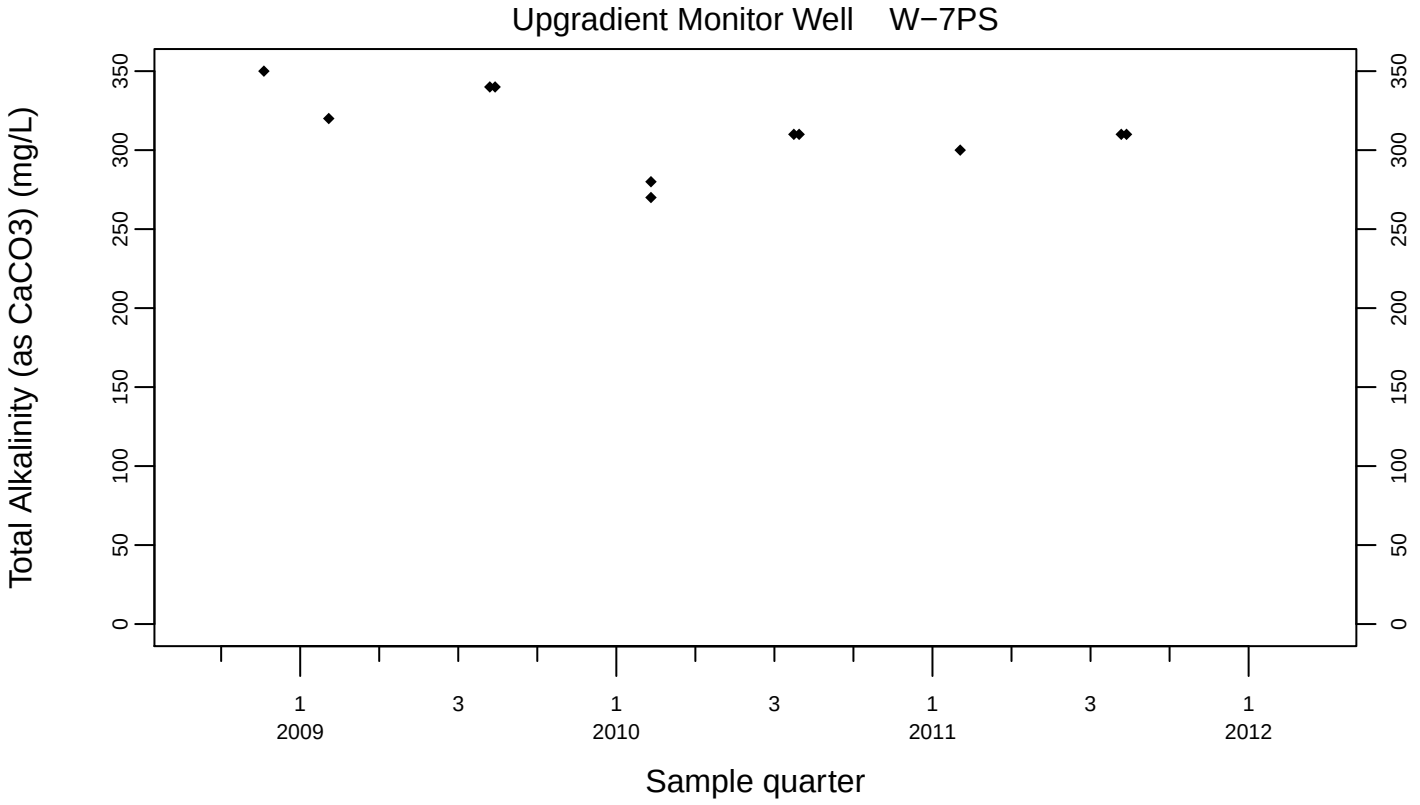

Downgradient Monitor Well W−25N−23
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

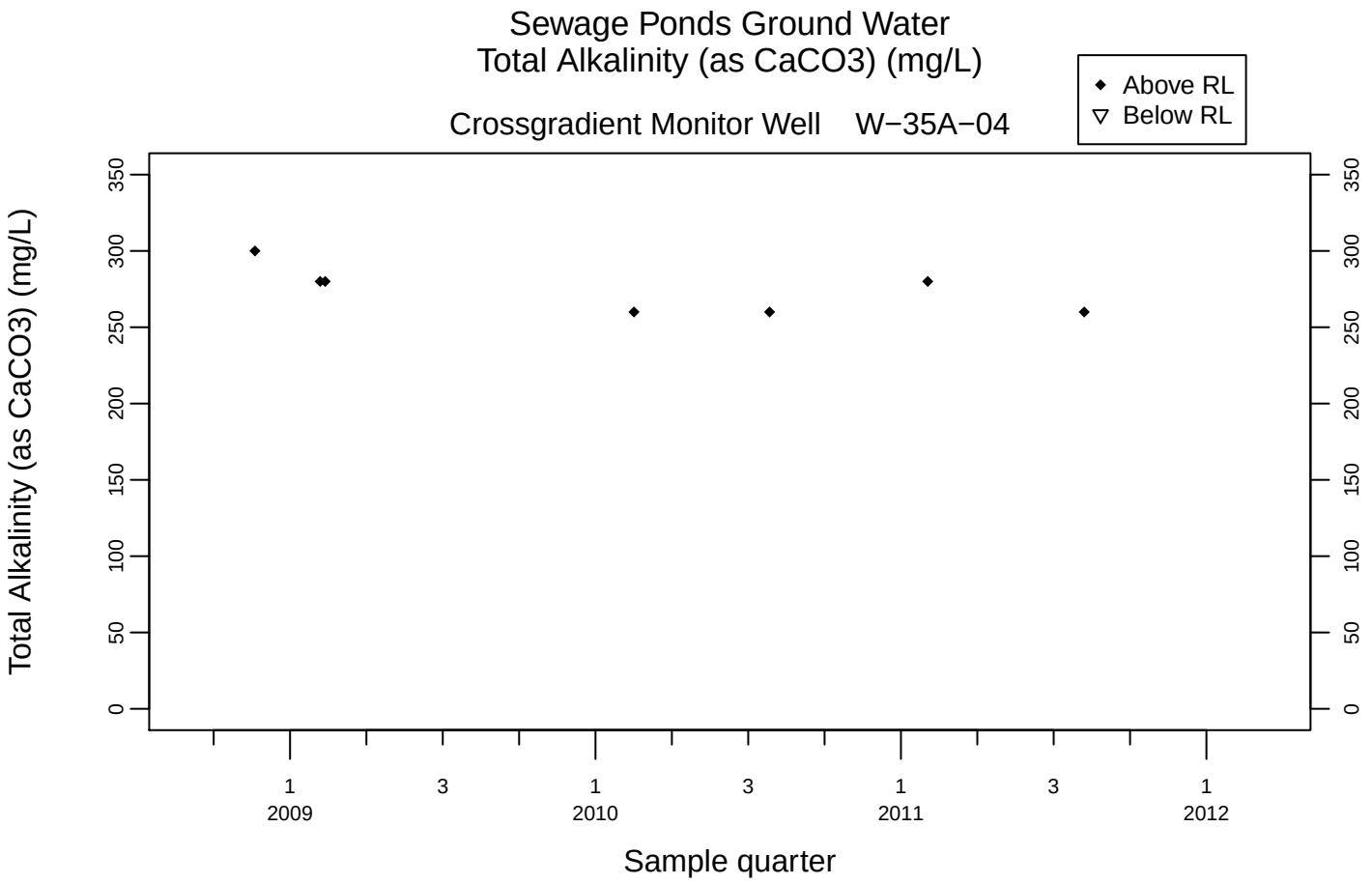

Sewage Ponds Ground Water
Fluoride (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

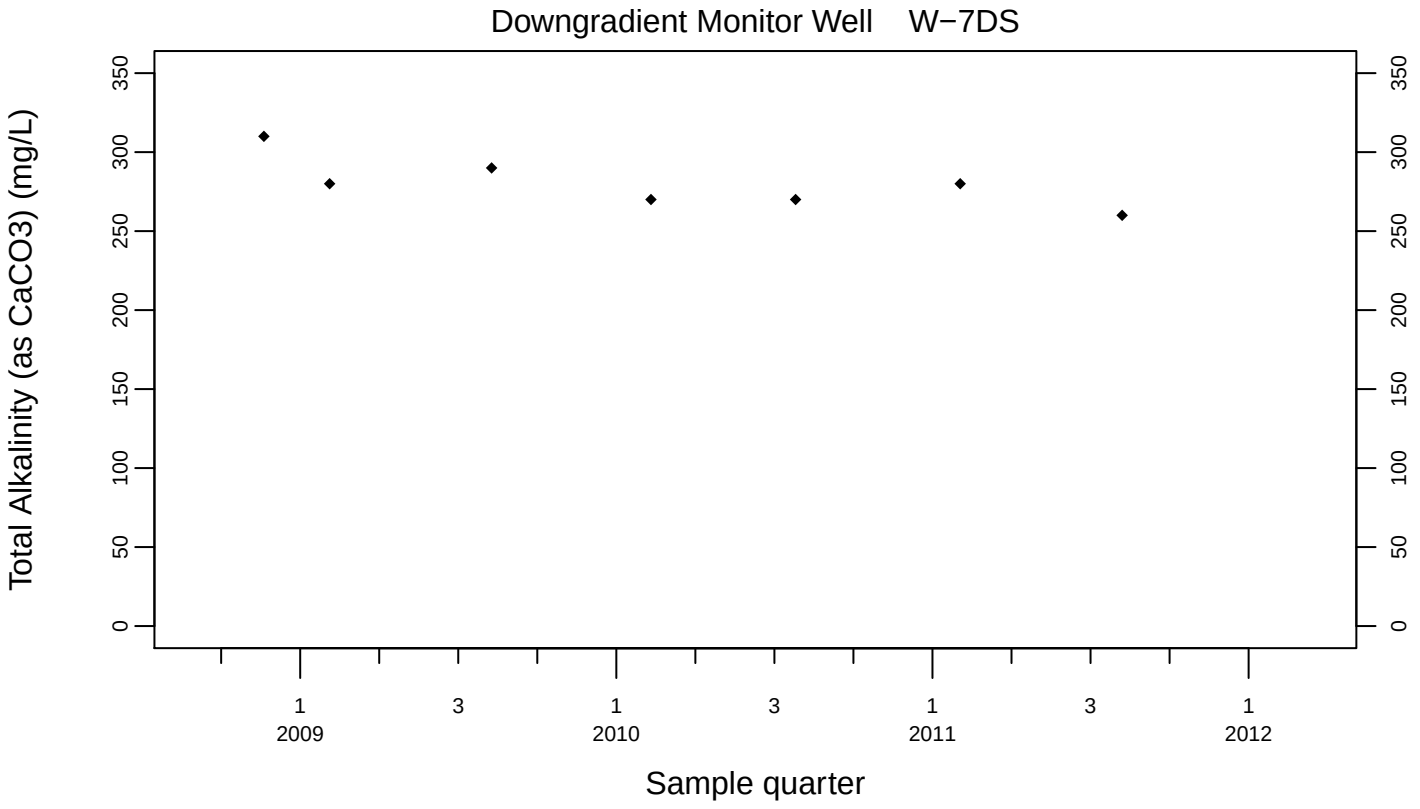

Downgradient Monitor Well W−26R−05
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

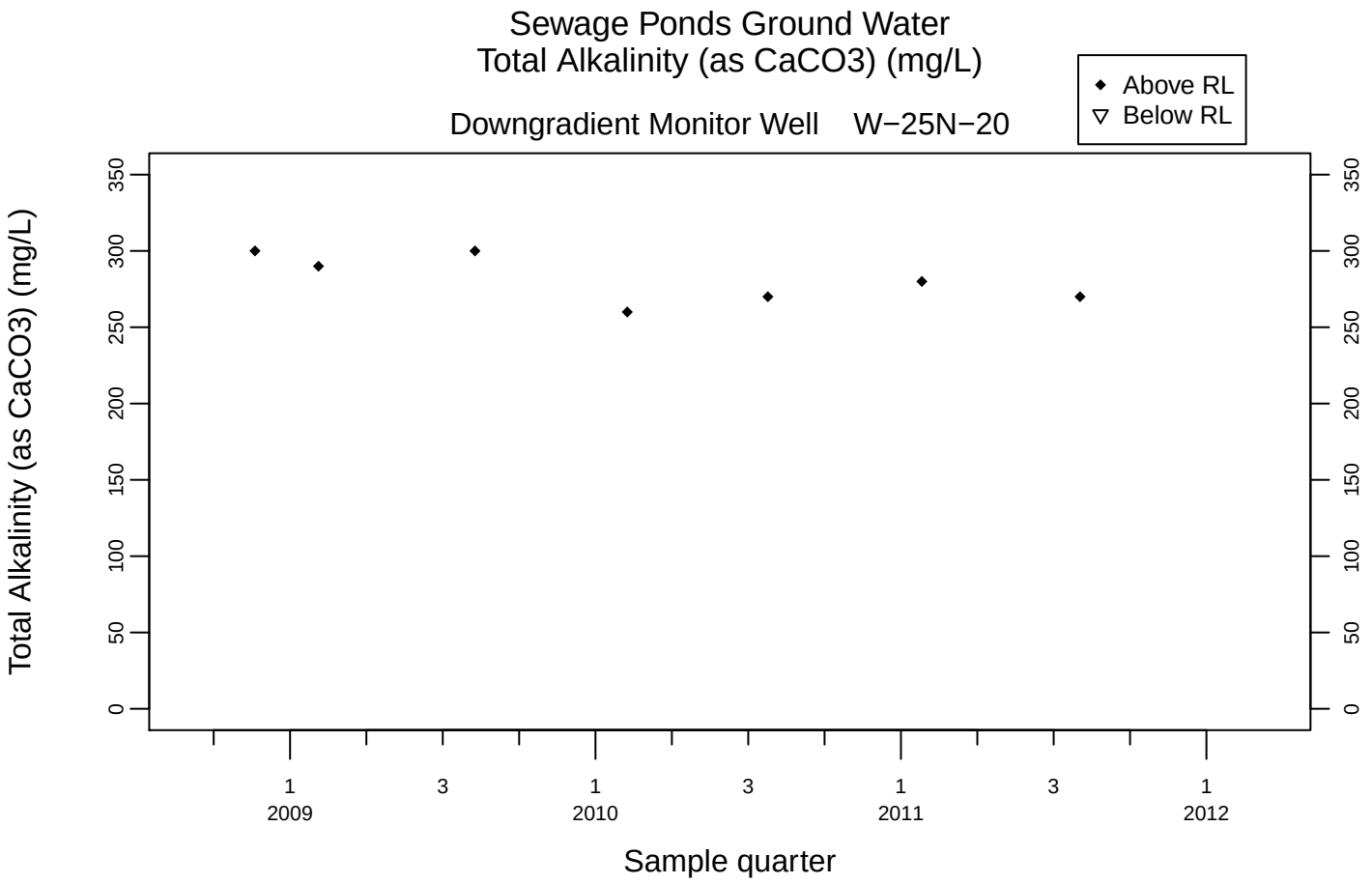

Sewage Ponds Ground Water
Fluoride (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

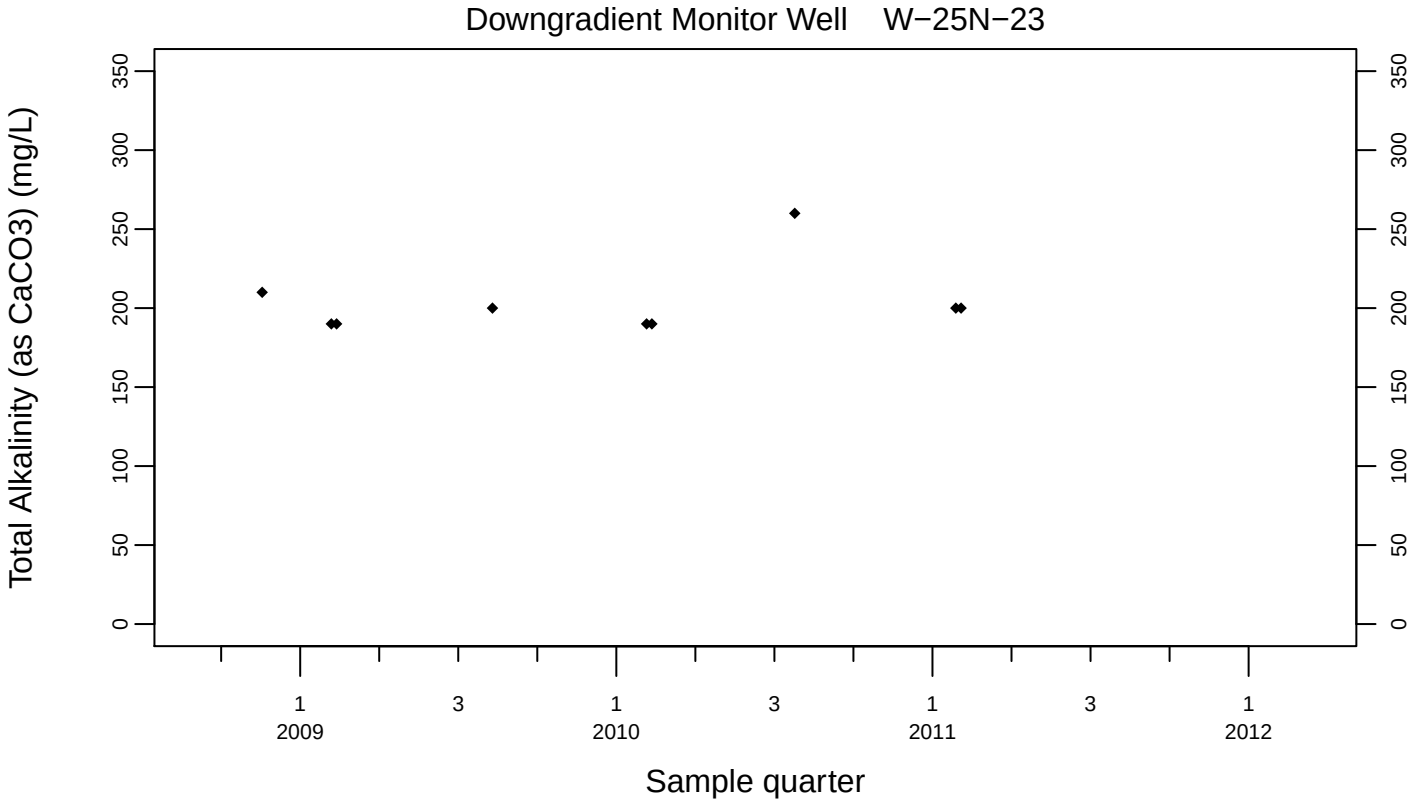

Sewage Ponds Ground Water
Total Alkalinity (as CaCO3) (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

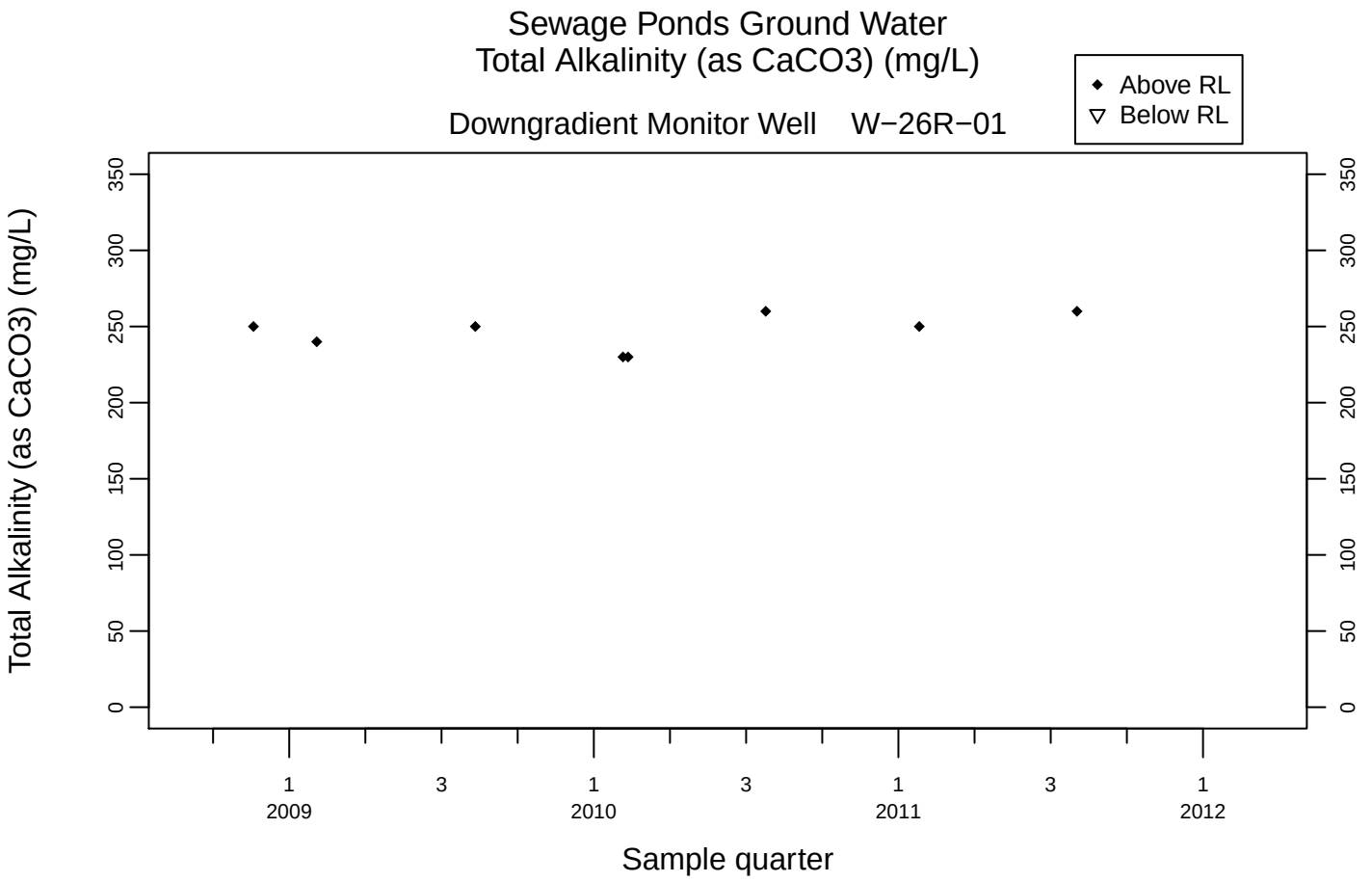

Upgradient Monitor Well W−7PS
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

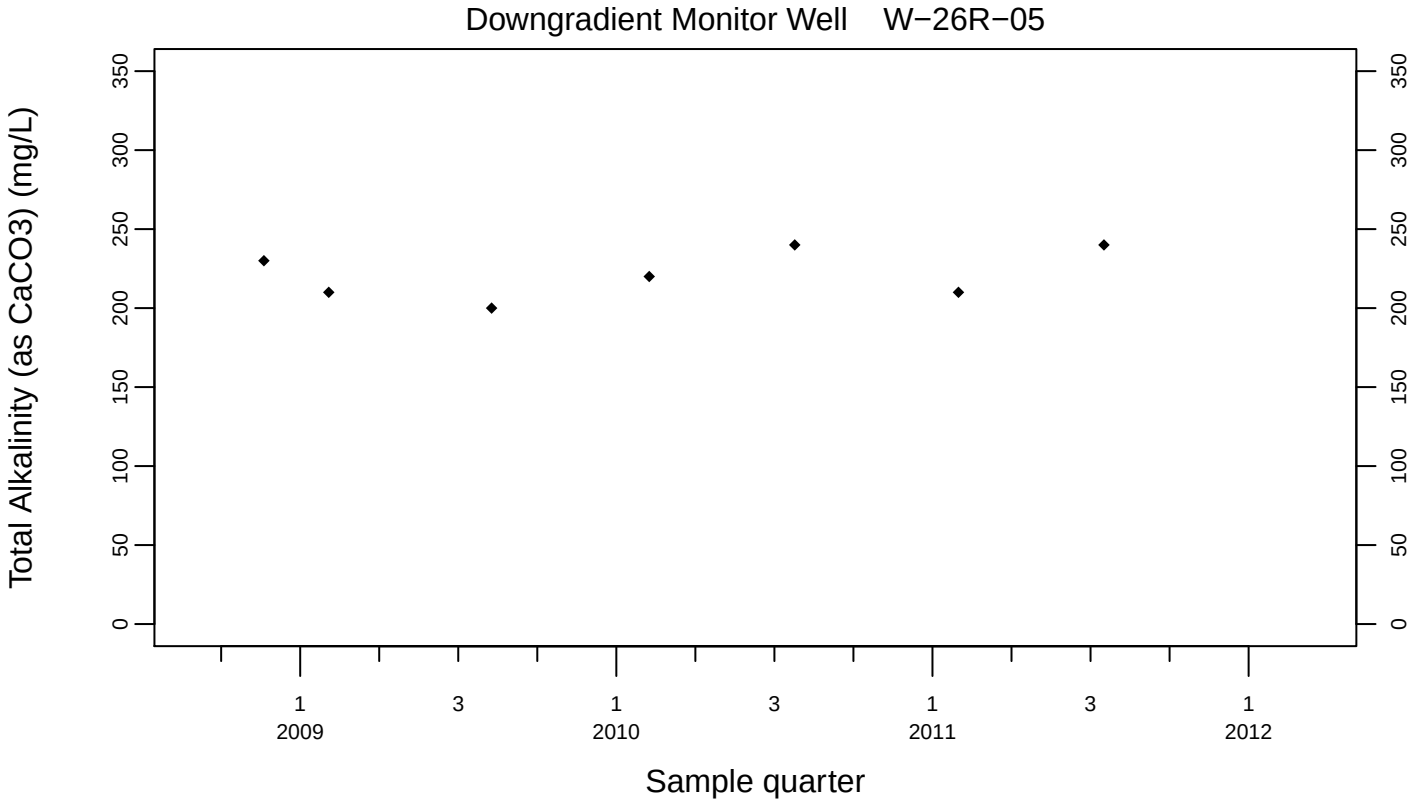

Sewage Ponds Ground Water
Total Alkalinity (as CaCO3) (mg/L)
Crossgradient Monitor Well W−35A−04
Above RL
Below RL
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

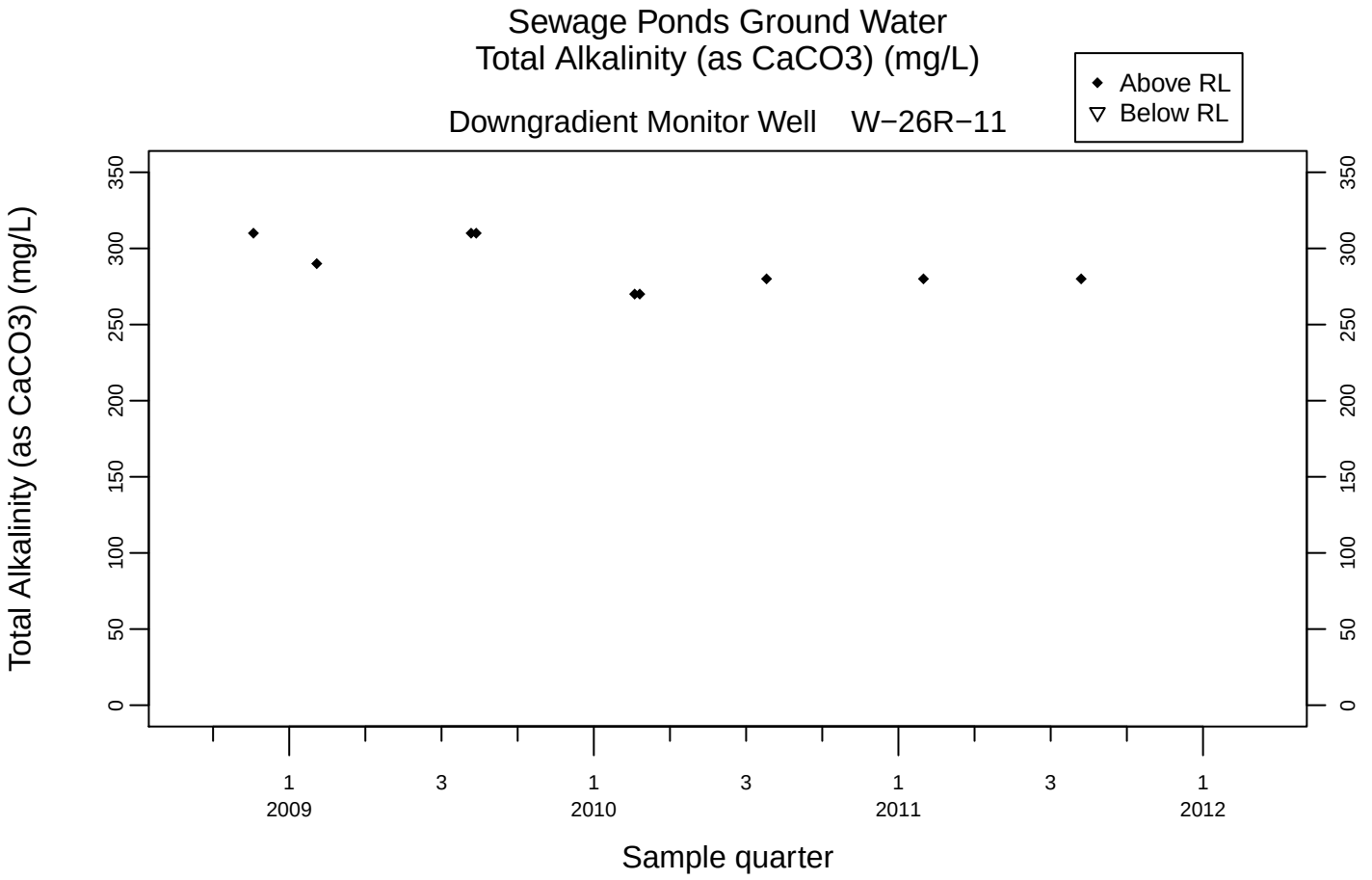

Downgradient Monitor Well W−7DS
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

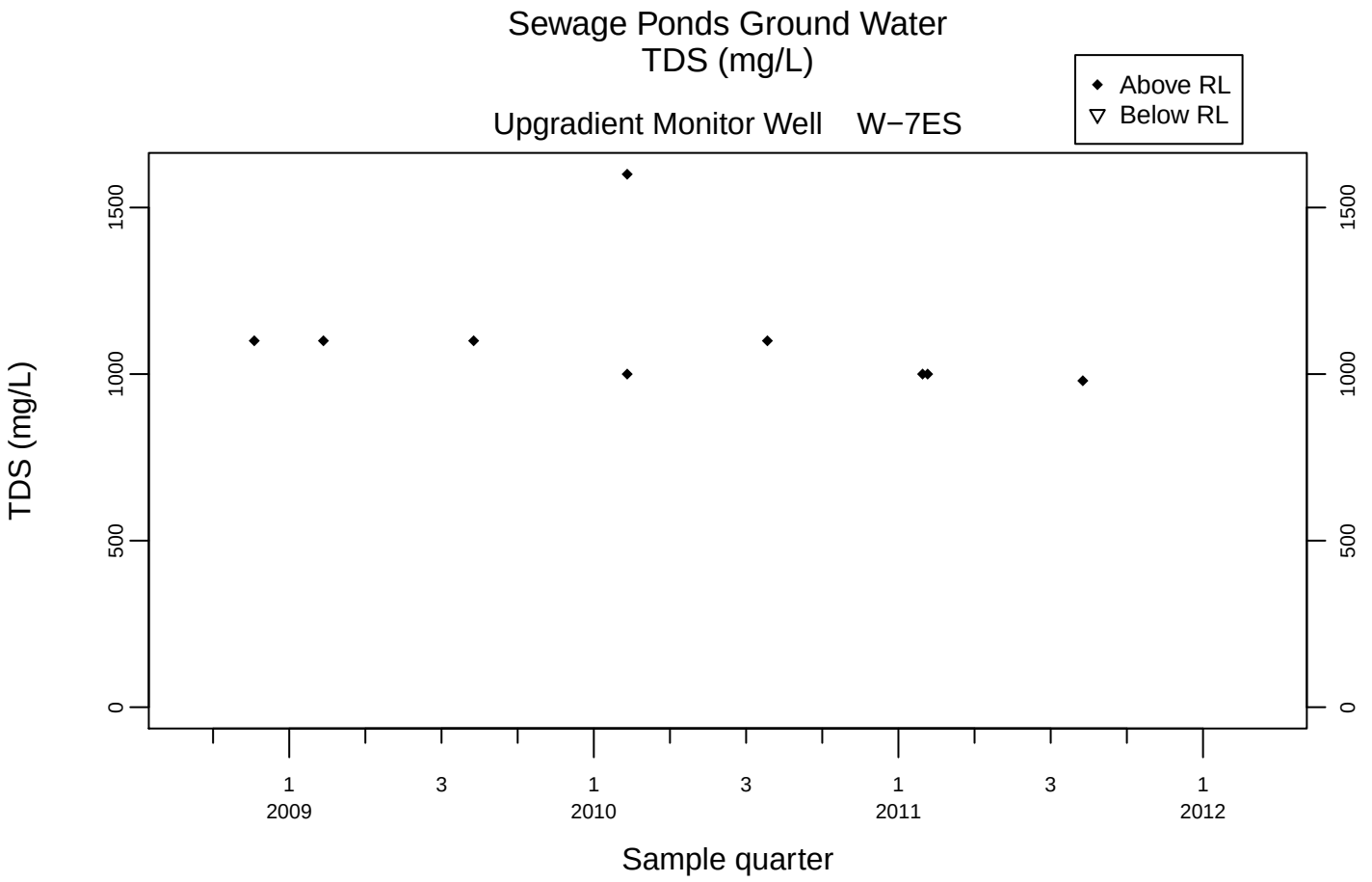

Sewage Ponds Ground Water
Total Alkalinity (as CaCO3) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

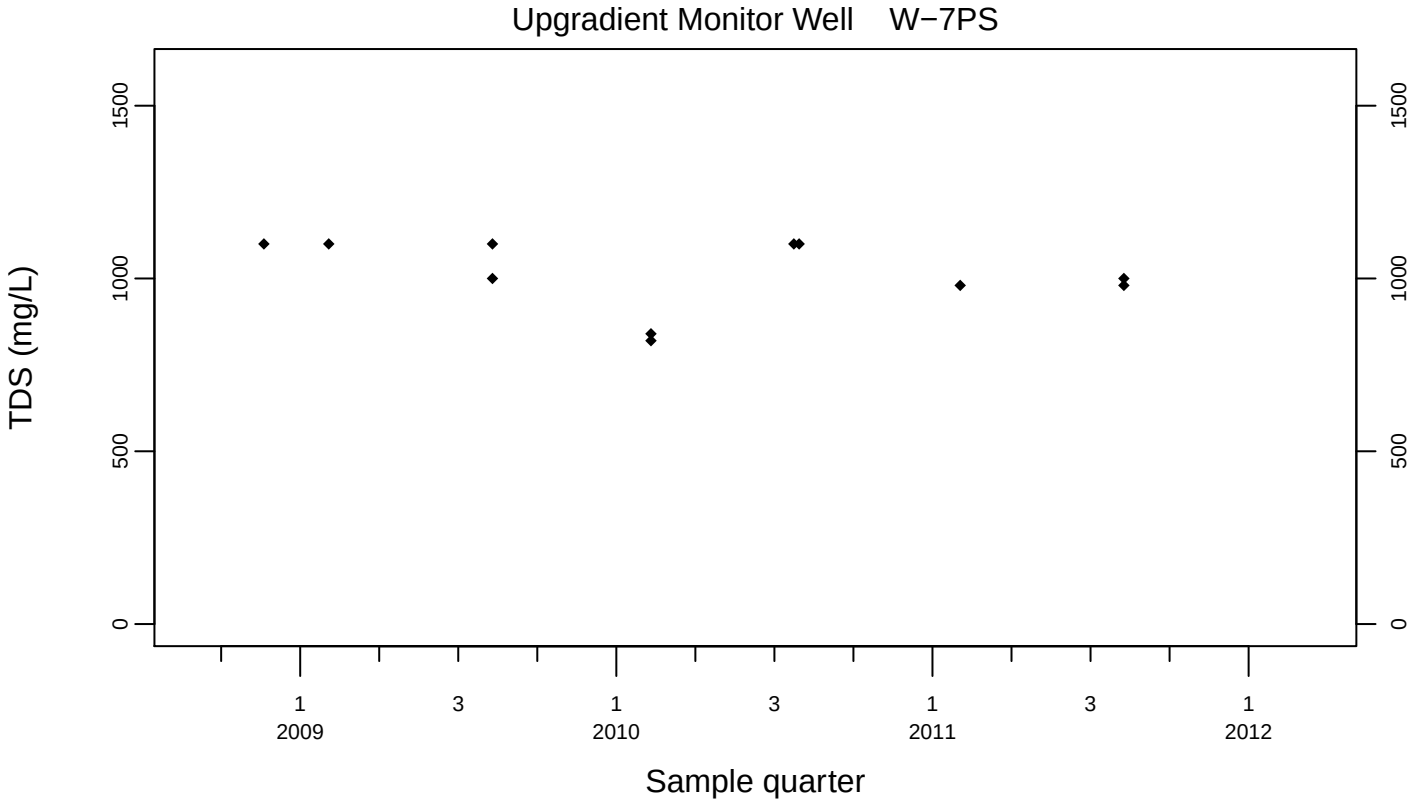

Downgradient Monitor Well W−25N−23
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

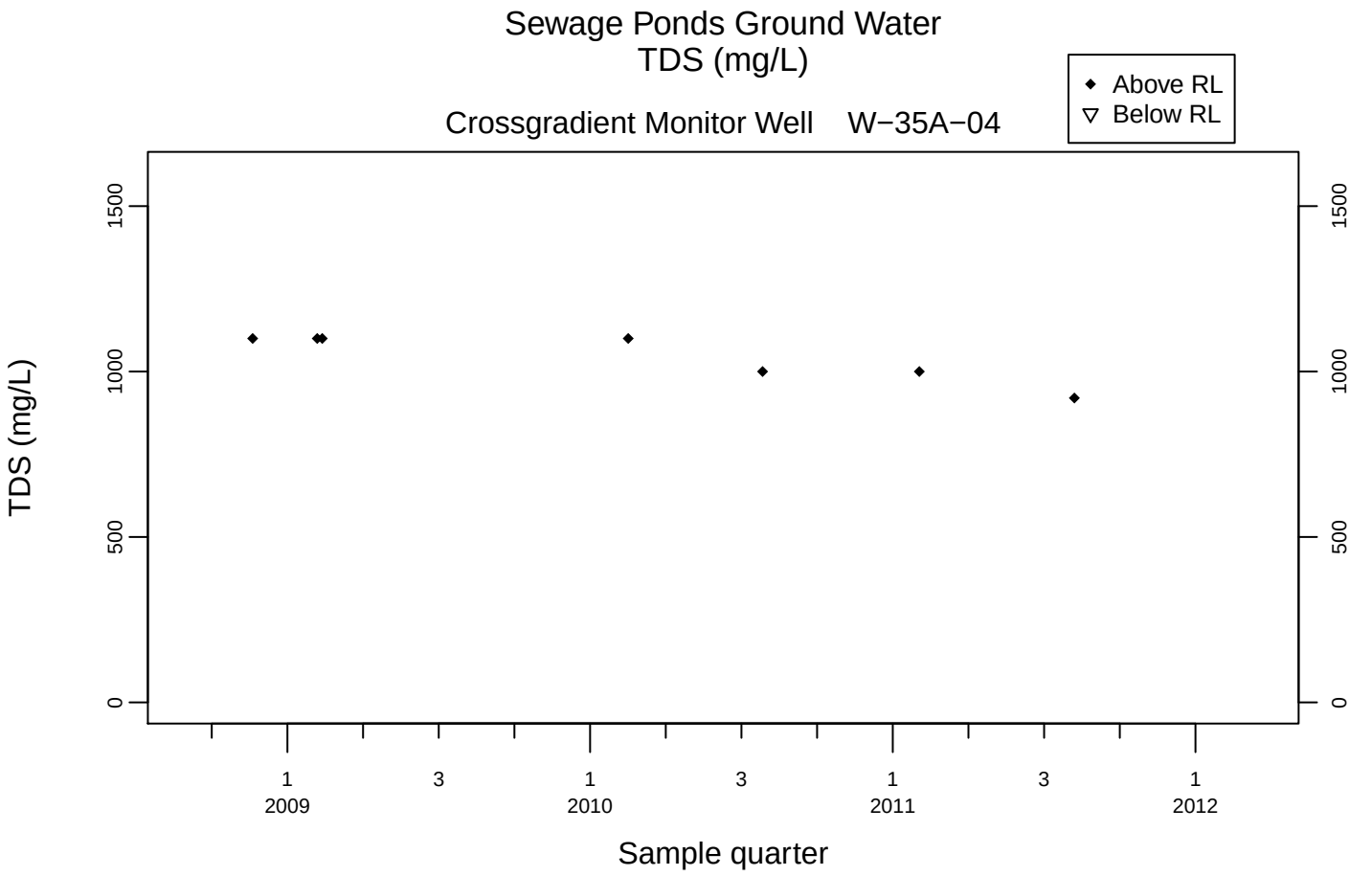

Sewage Ponds Ground Water
Total Alkalinity (as CaCO3) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

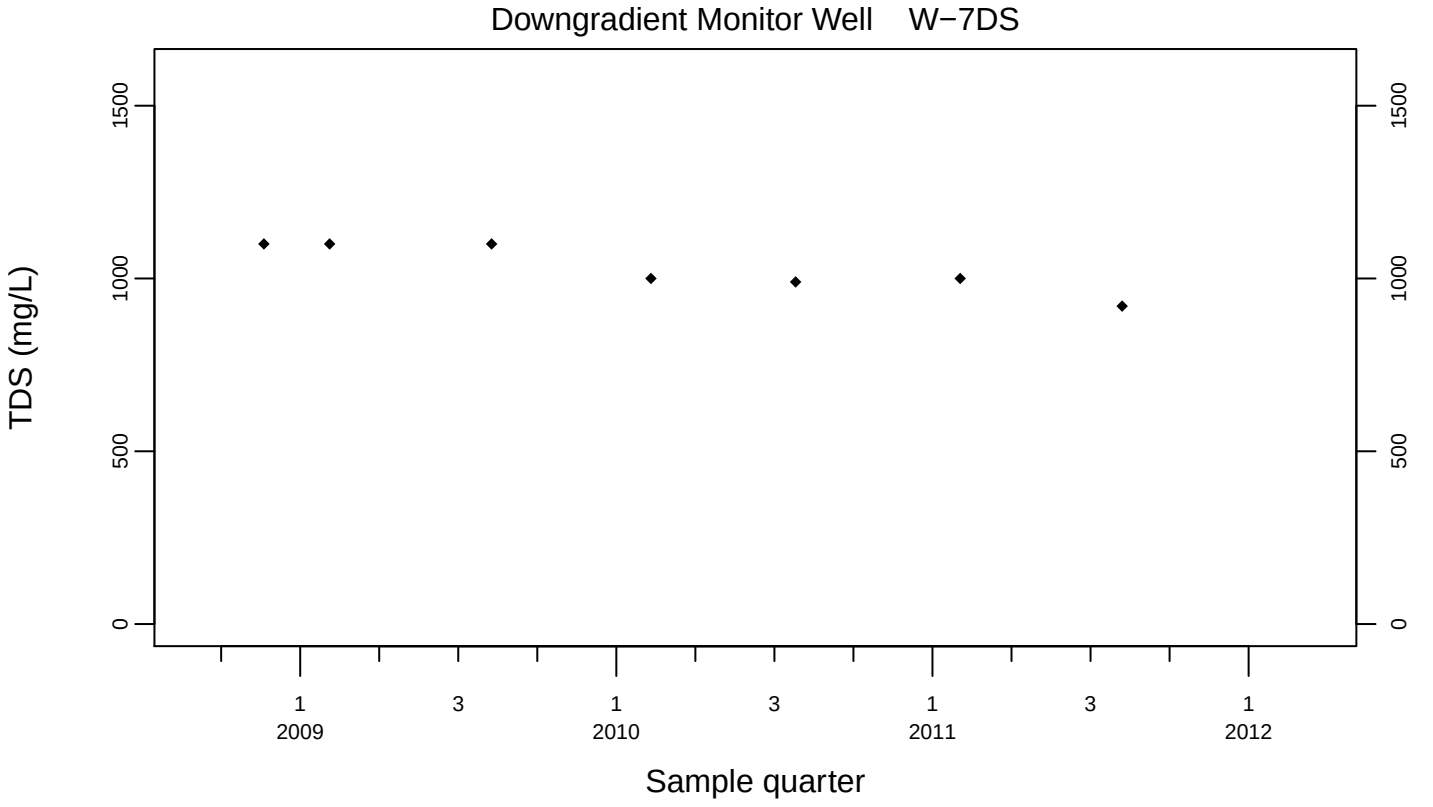

Downgradient Monitor Well W−26R−05
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

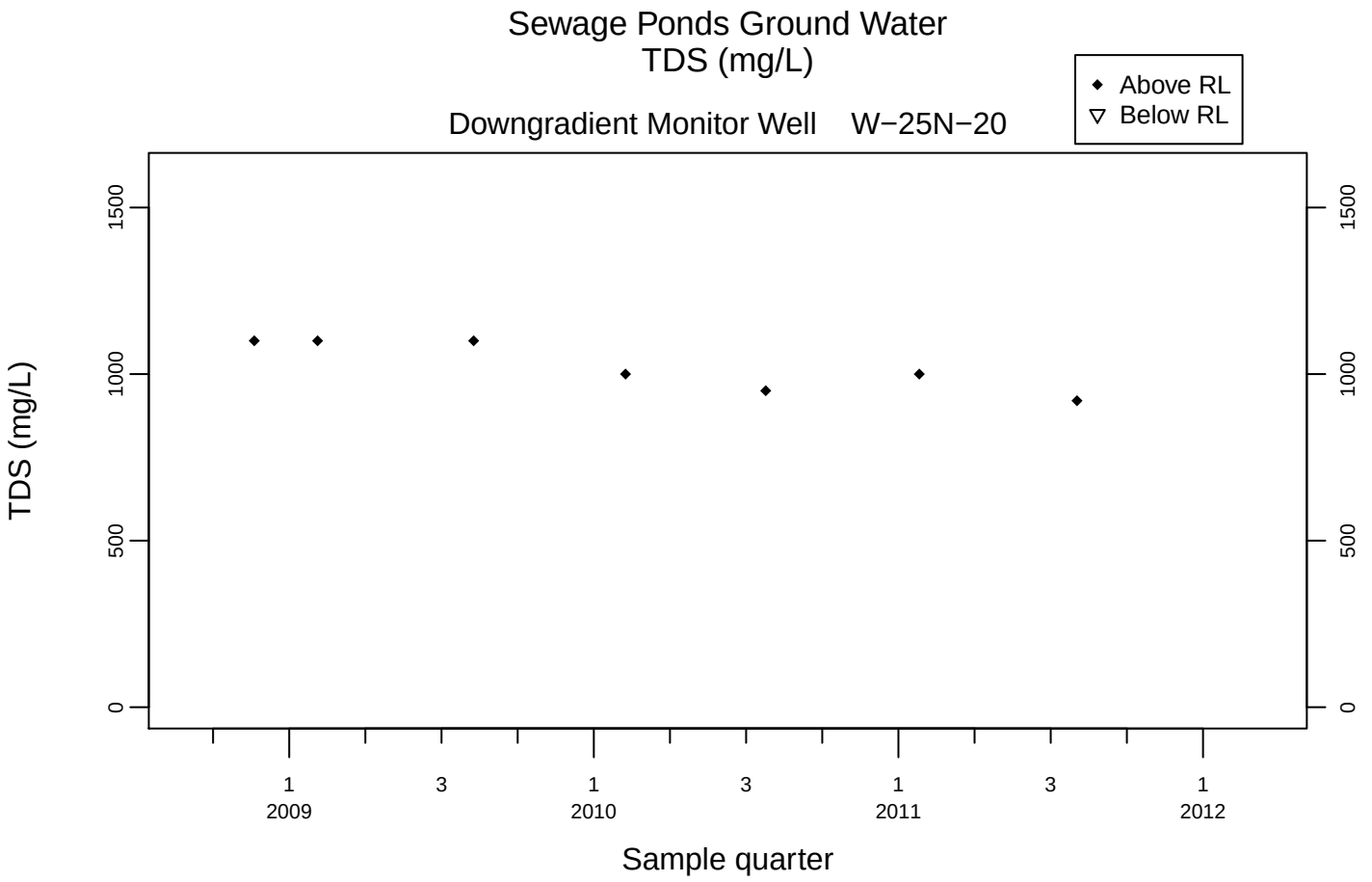

Sewage Ponds Ground Water
Total Alkalinity (as CaCO3) (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

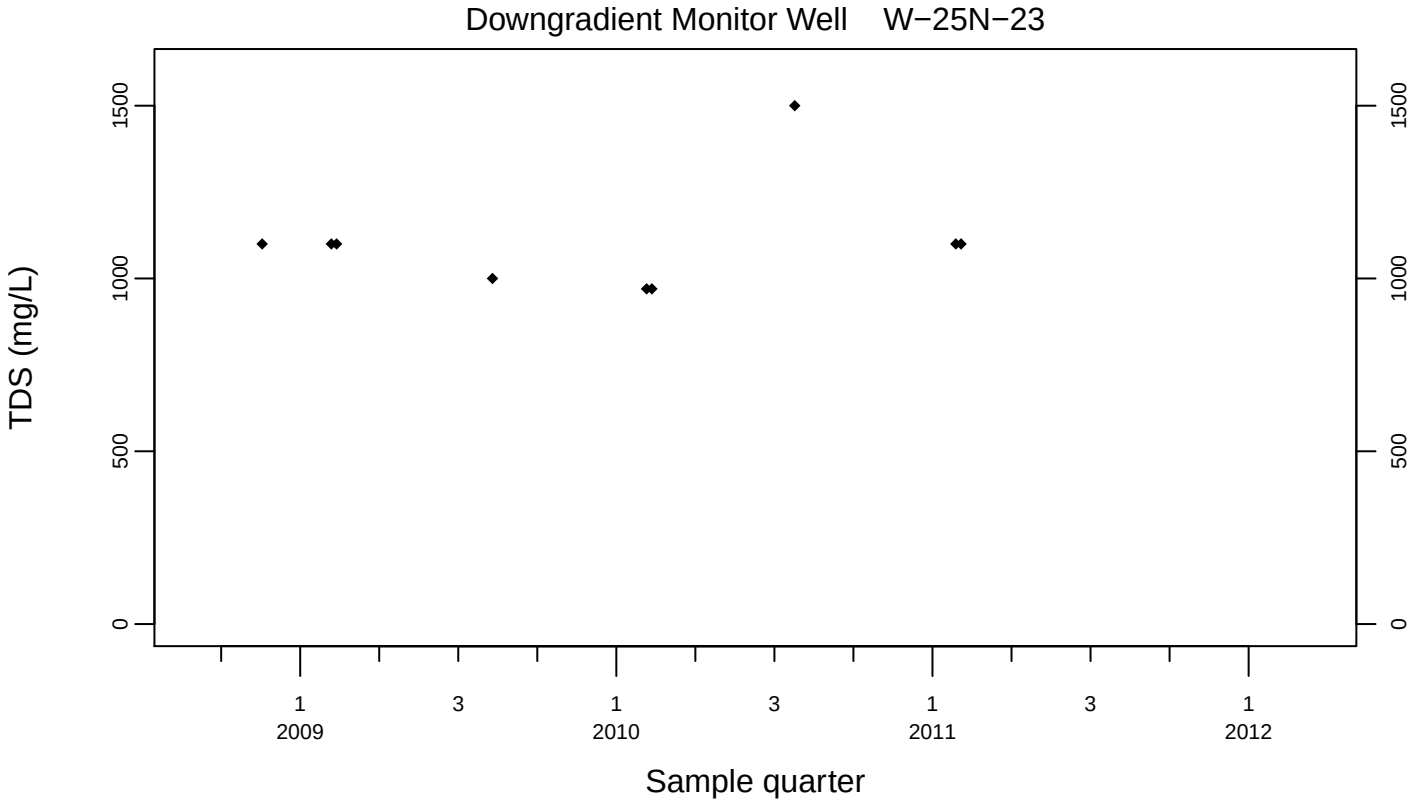

Sewage Ponds Ground Water
TDS (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
TDS (mg/L)
0
500
1000
1500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

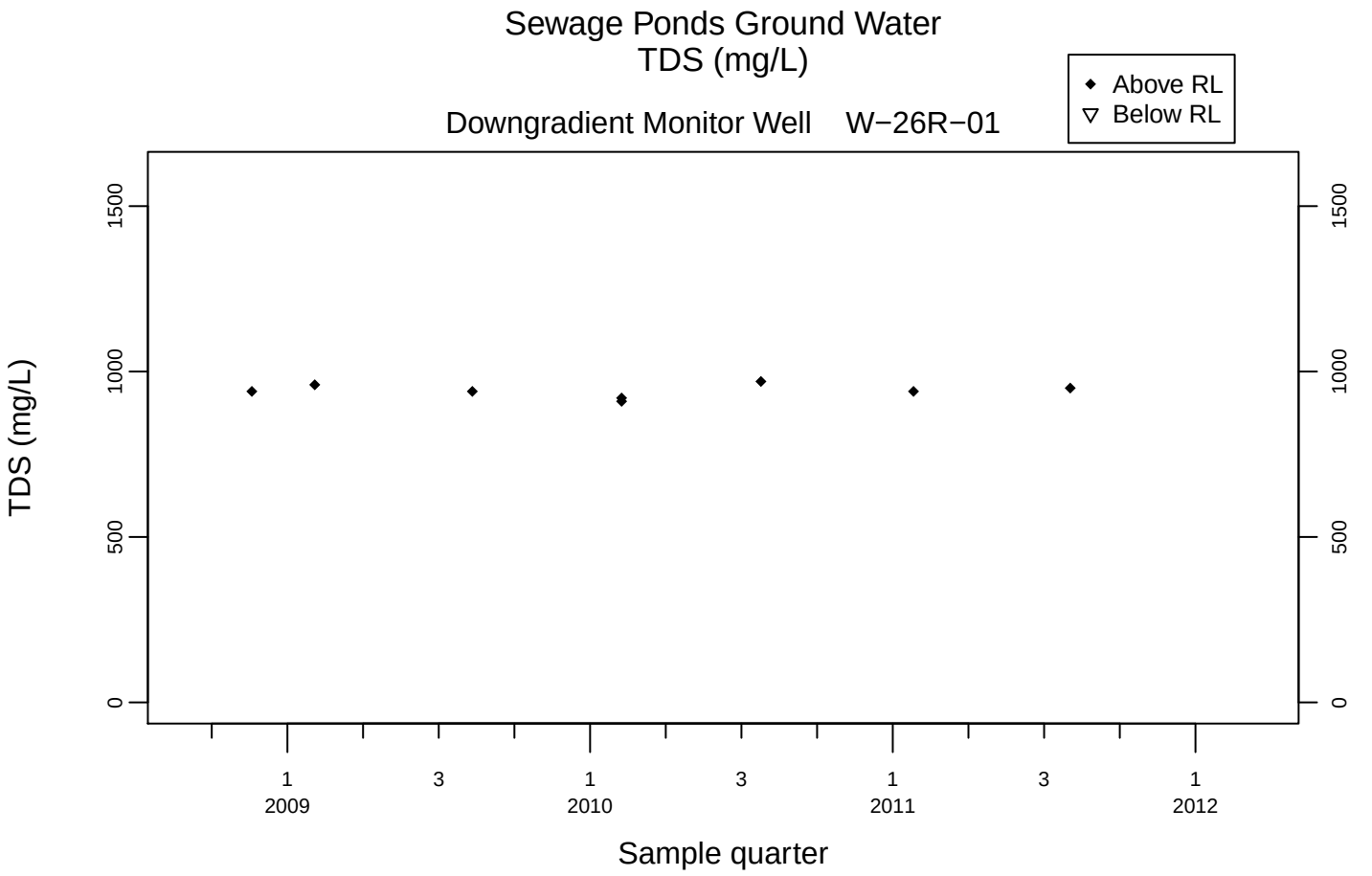

Upgradient Monitor Well W−7PS
TDS (mg/L)
0
500
1000
1500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

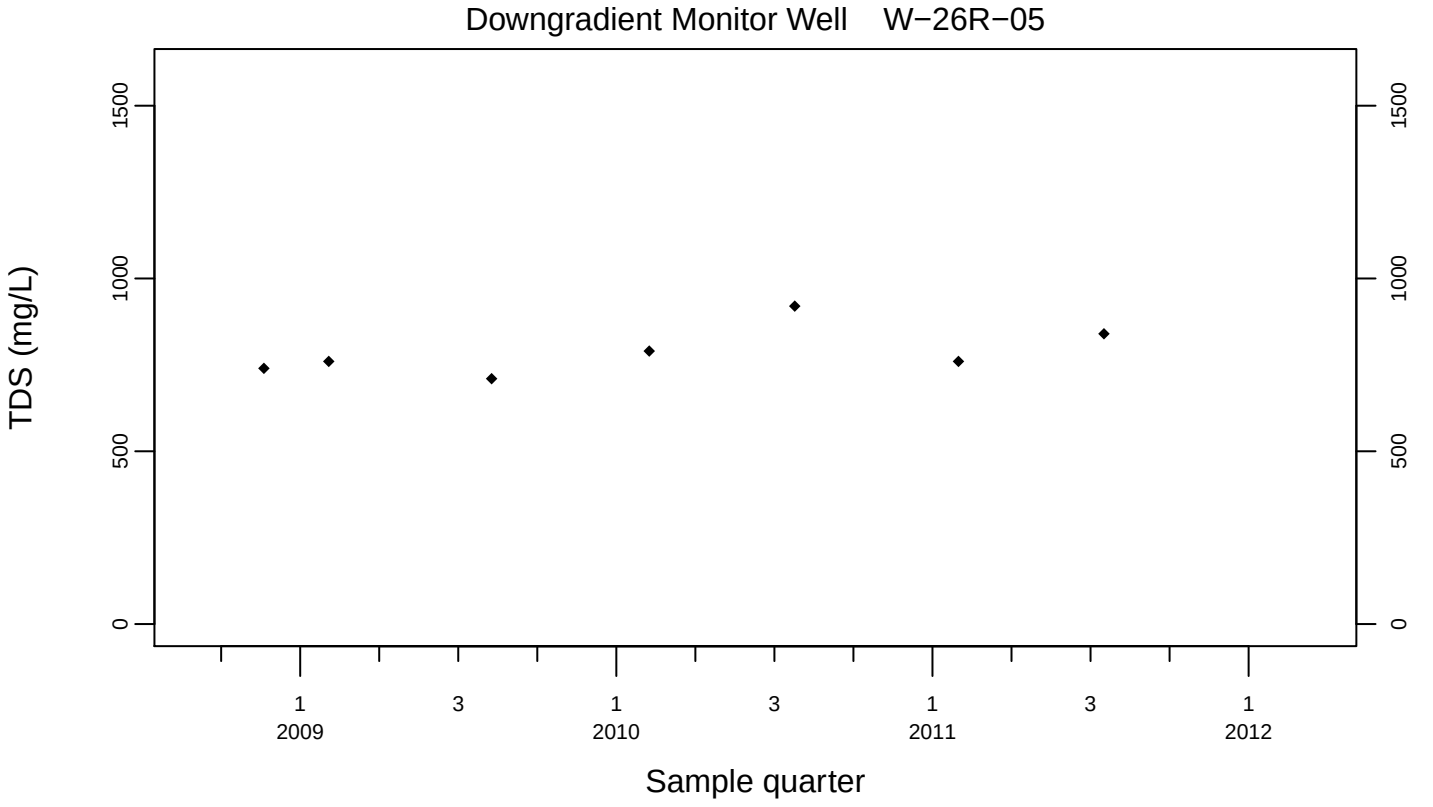

Sewage Ponds Ground Water
TDS (mg/L)
Crossgradient Monitor Well W−35A−04
Above RL
Below RL
TDS (mg/L)
0
500
1000
1500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

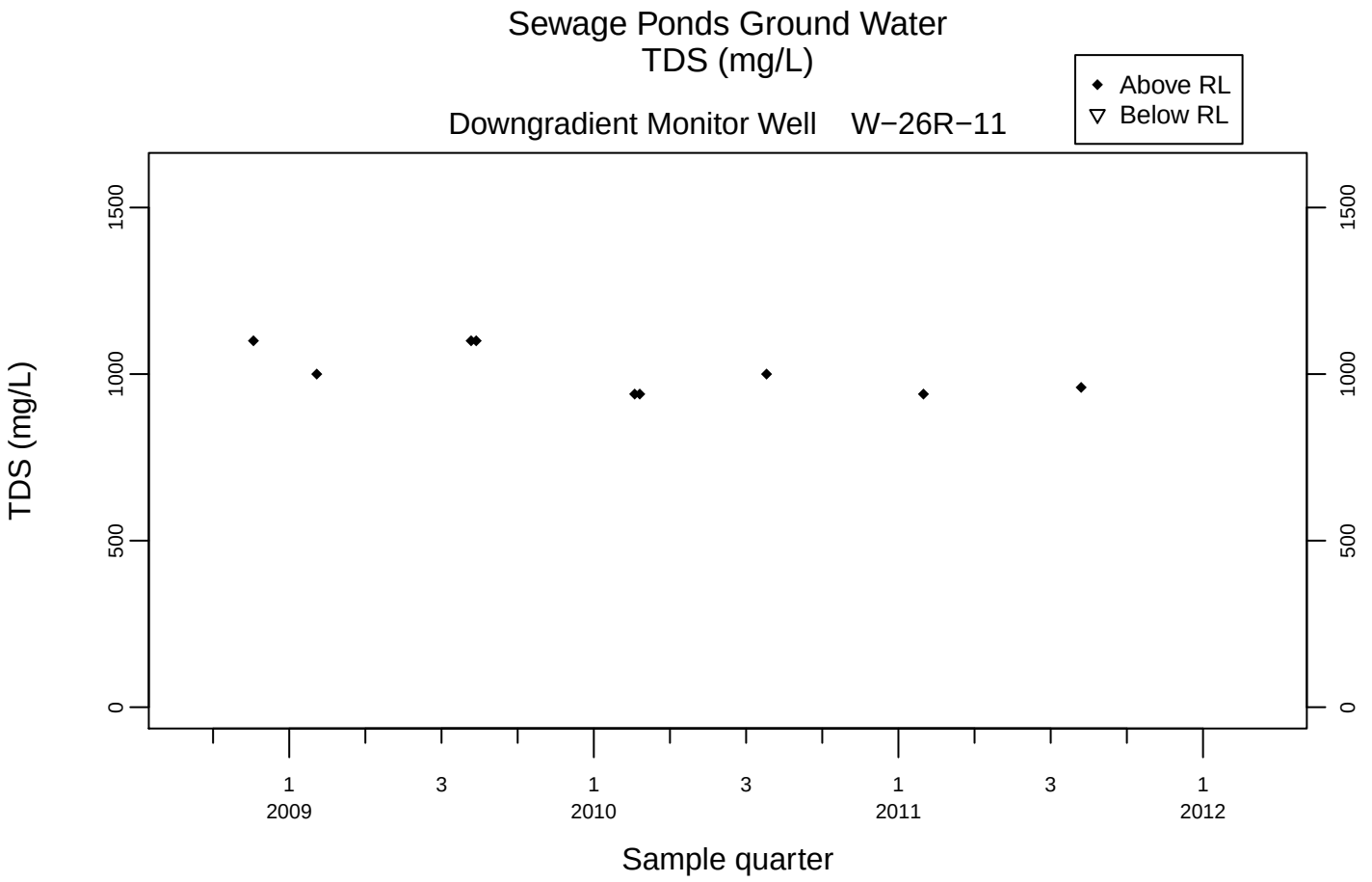

Downgradient Monitor Well W−7DS
TDS (mg/L)
0
500
1000
1500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

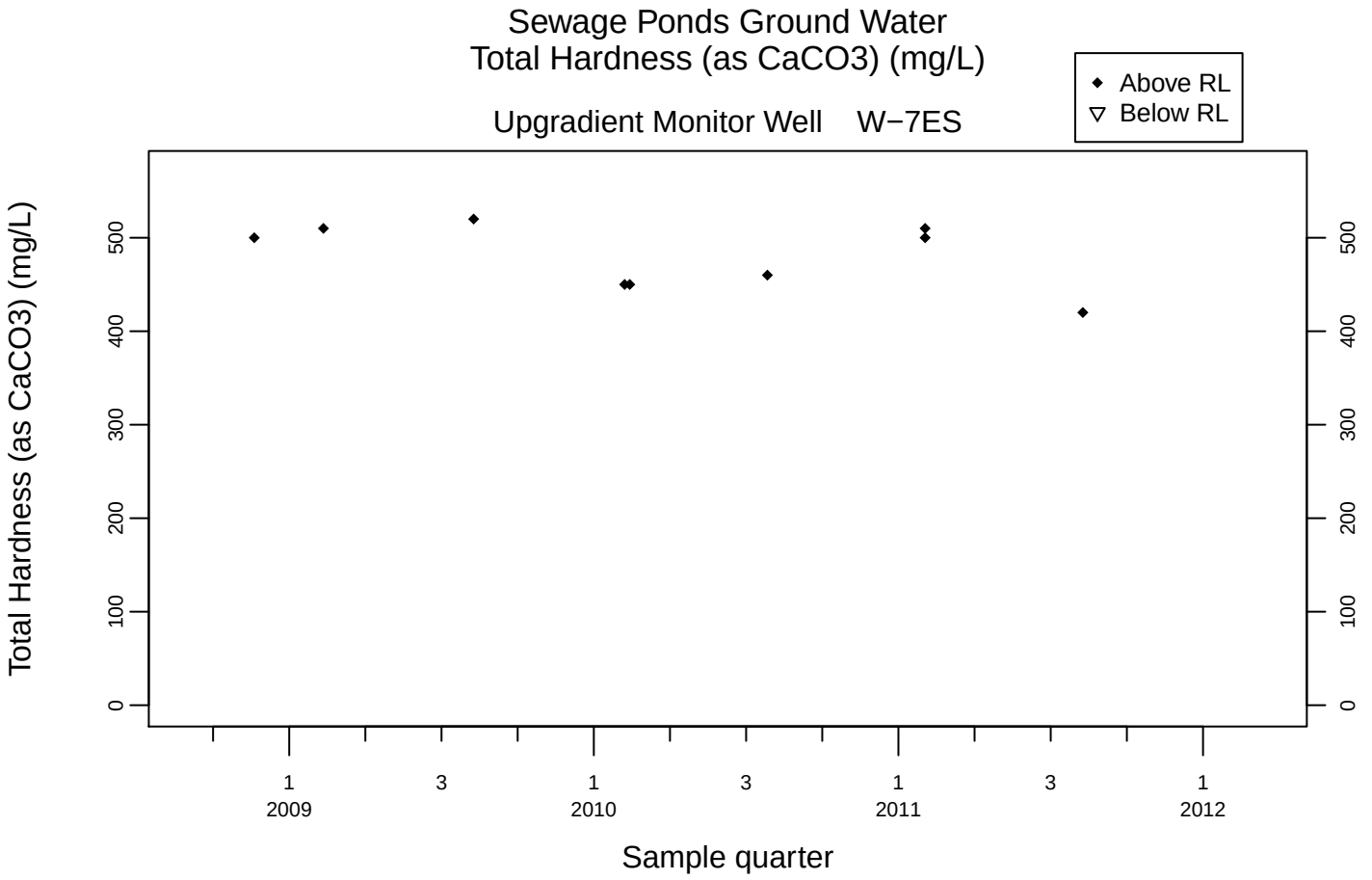

Sewage Ponds Ground Water
TDS (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
TDS (mg/L)
0
500
1000
1500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

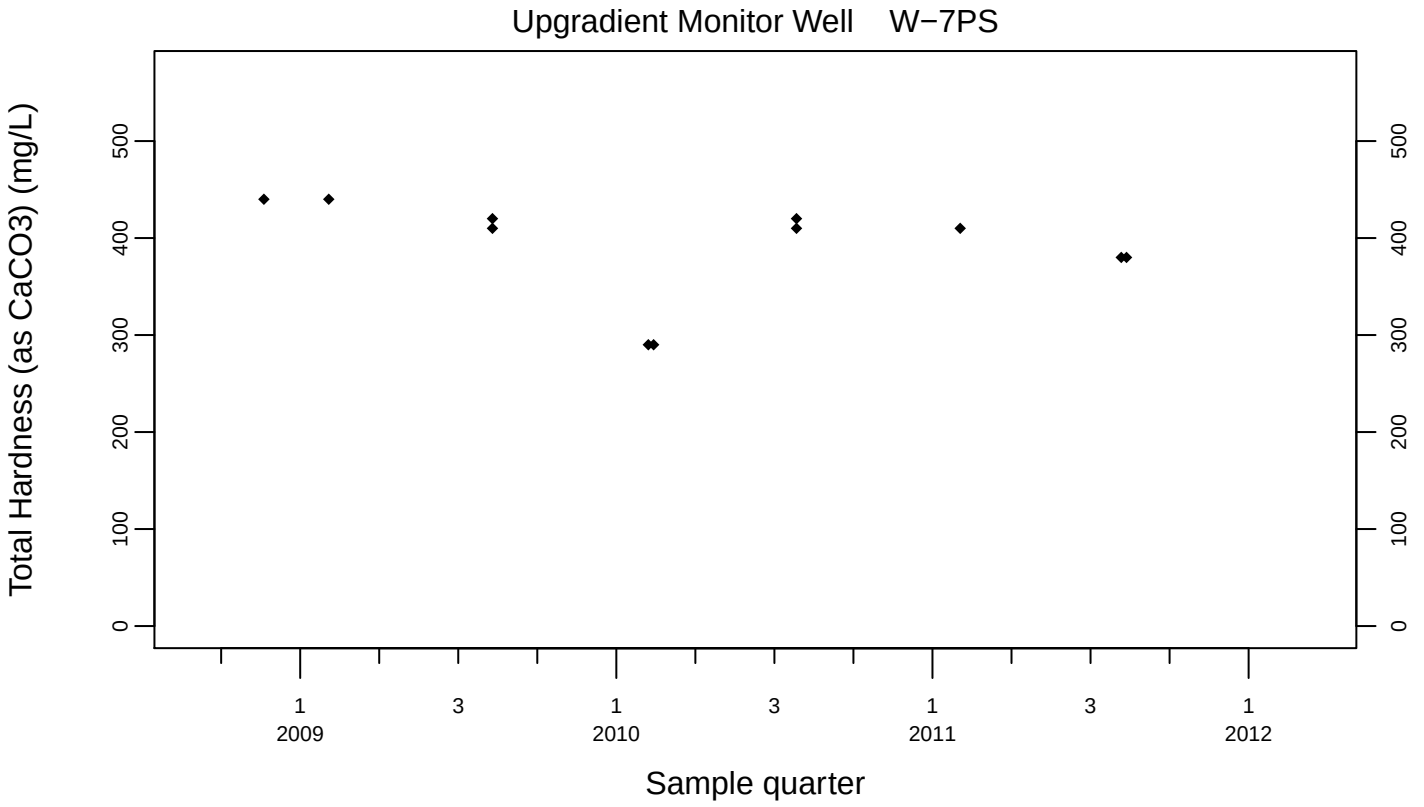

Downgradient Monitor Well W−25N−23
TDS (mg/L)
0
500
1000
1500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

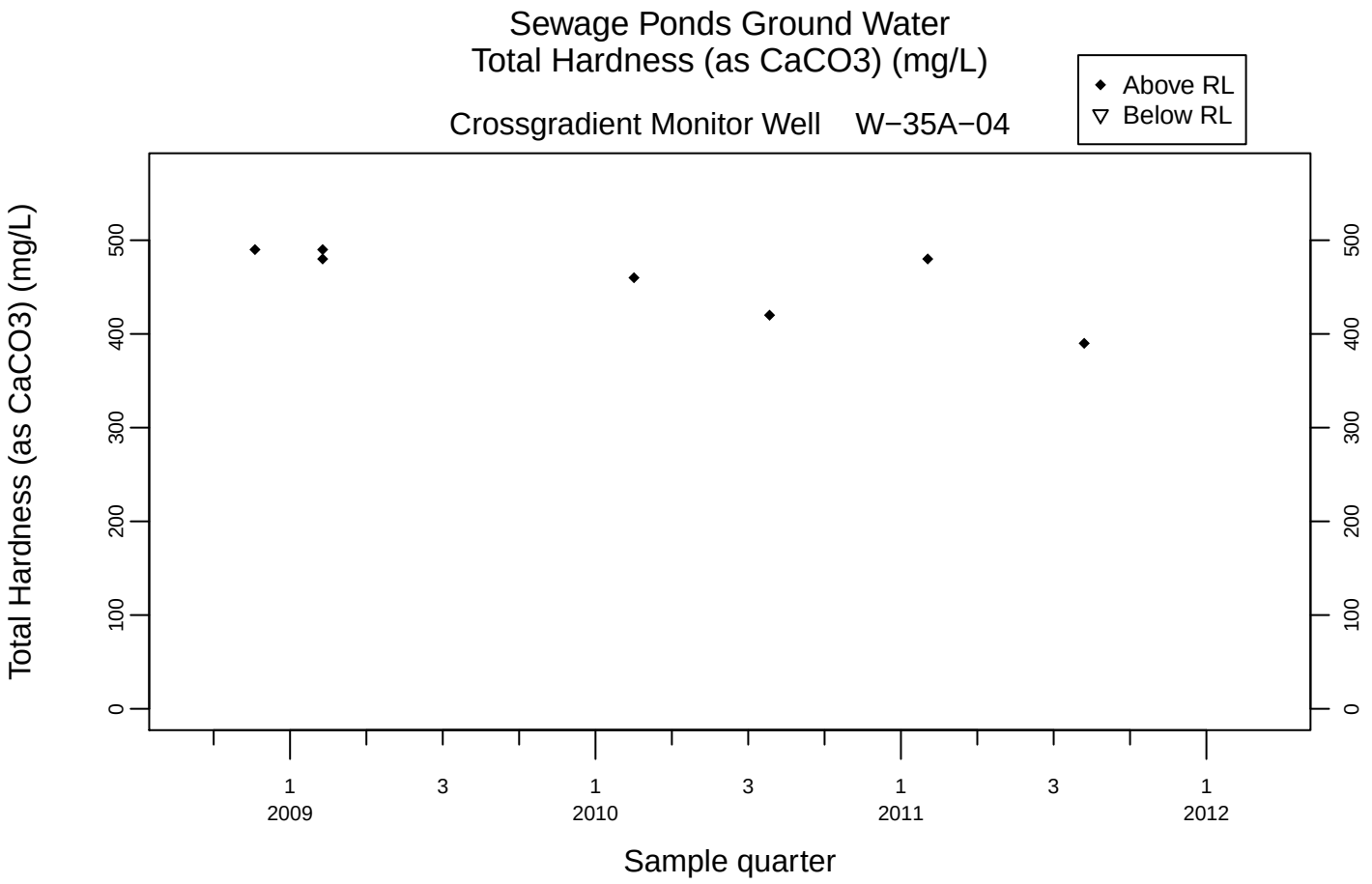

Sewage Ponds Ground Water
TDS (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
TDS (mg/L)
0
500
1000
1500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

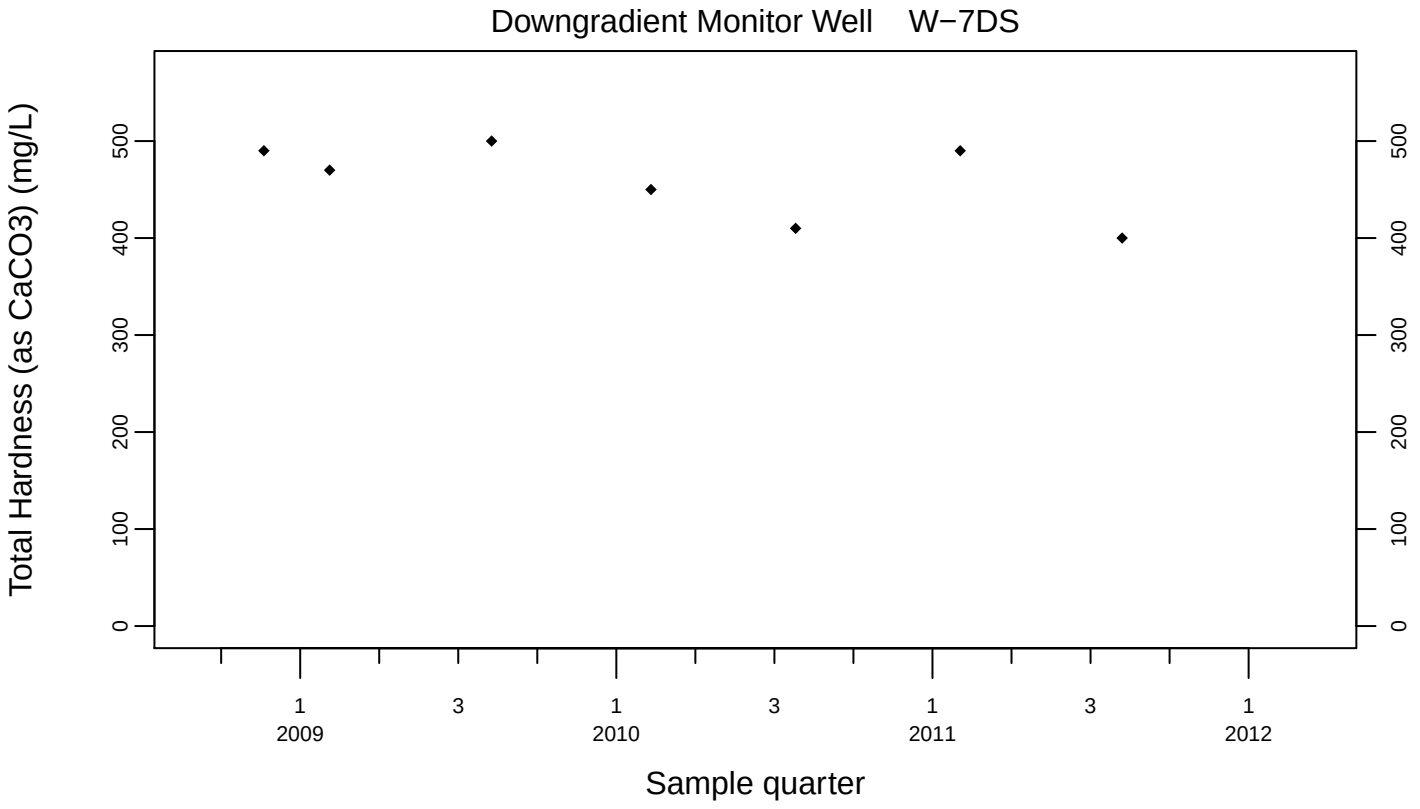

Downgradient Monitor Well W−26R−05
TDS (mg/L)
0
500
1000
1500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

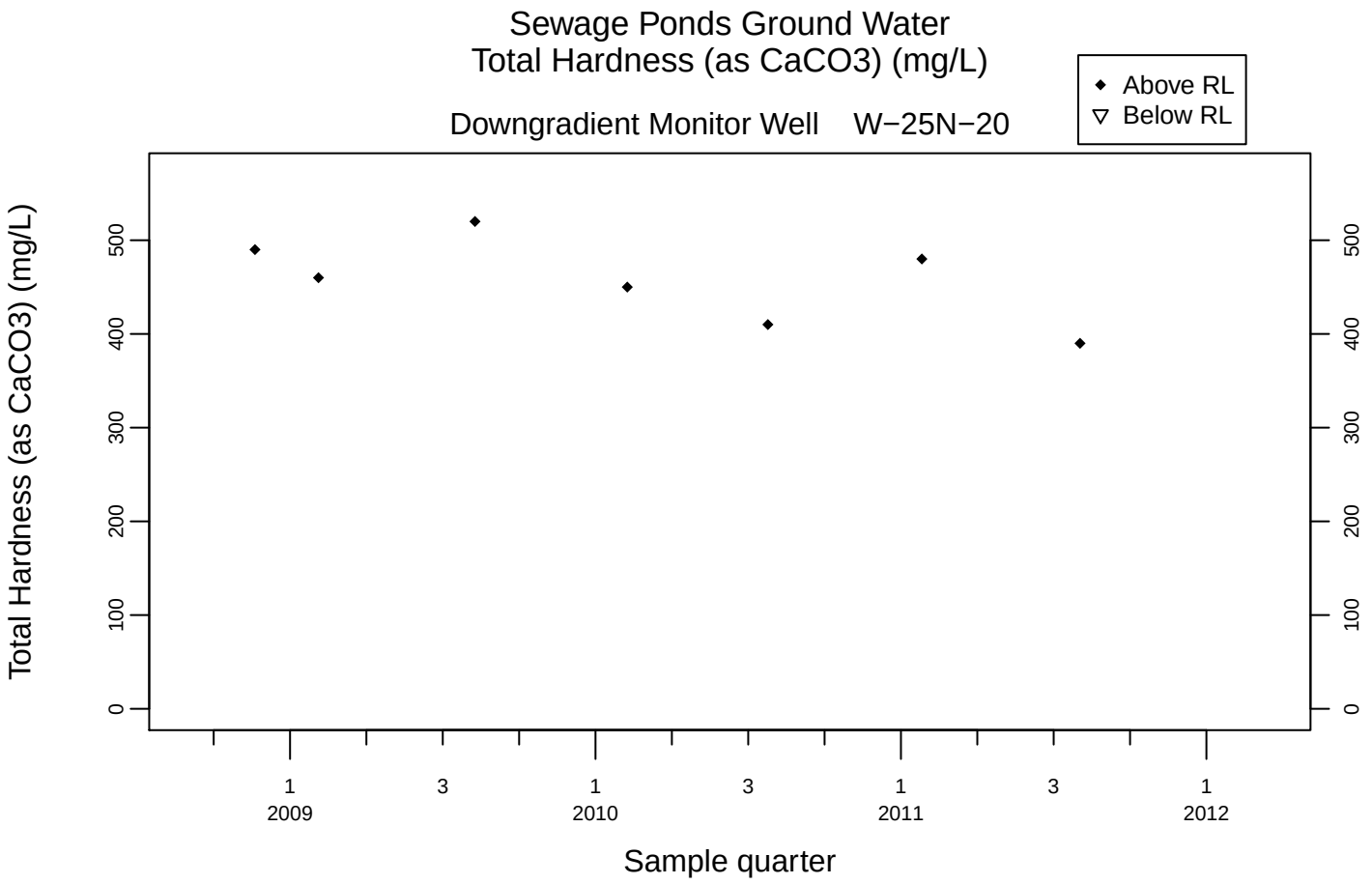

Sewage Ponds Ground Water
TDS (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
TDS (mg/L)
0
500
1000
1500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

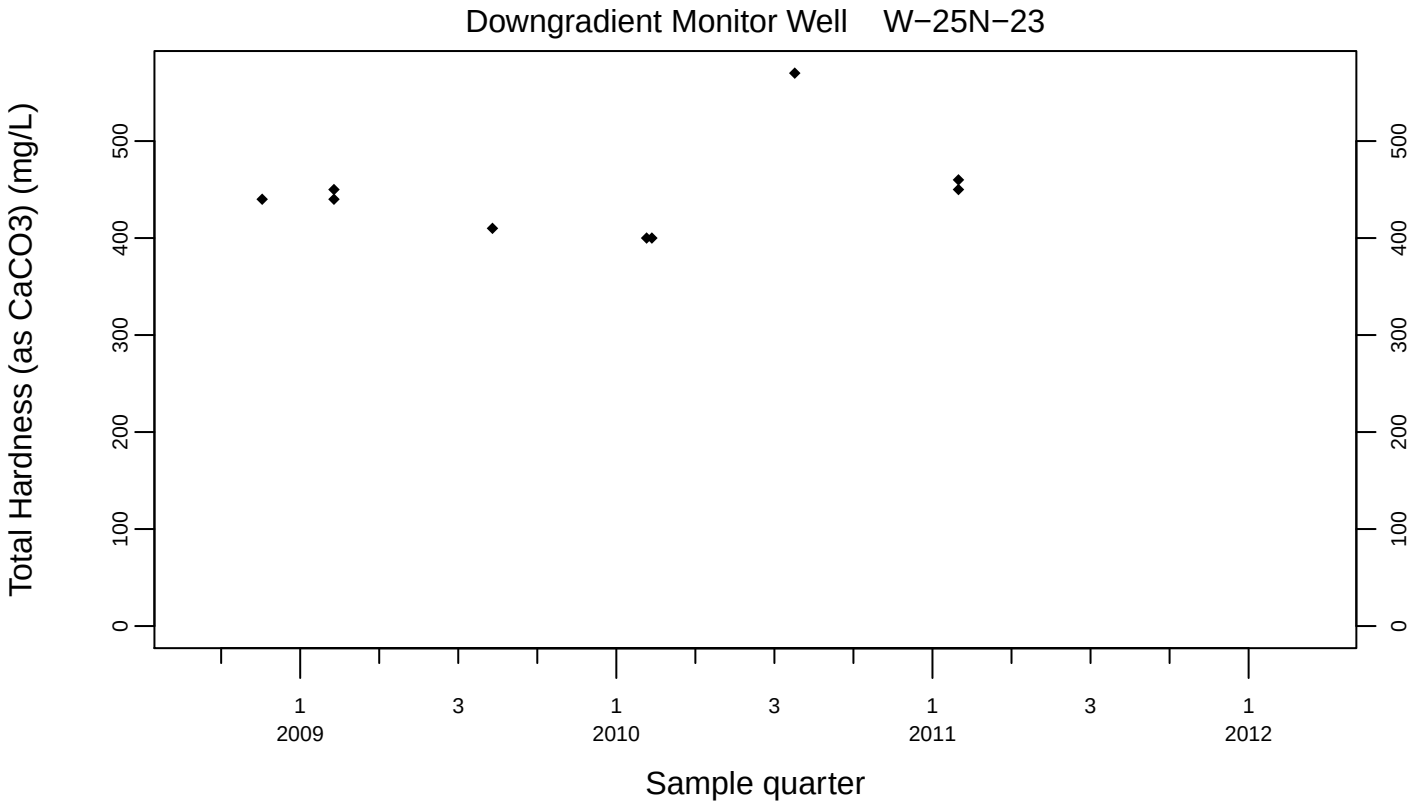

Sewage Ponds Ground Water
Total Hardness (as CaCO3) (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Total Hardness (as CaCO3) (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

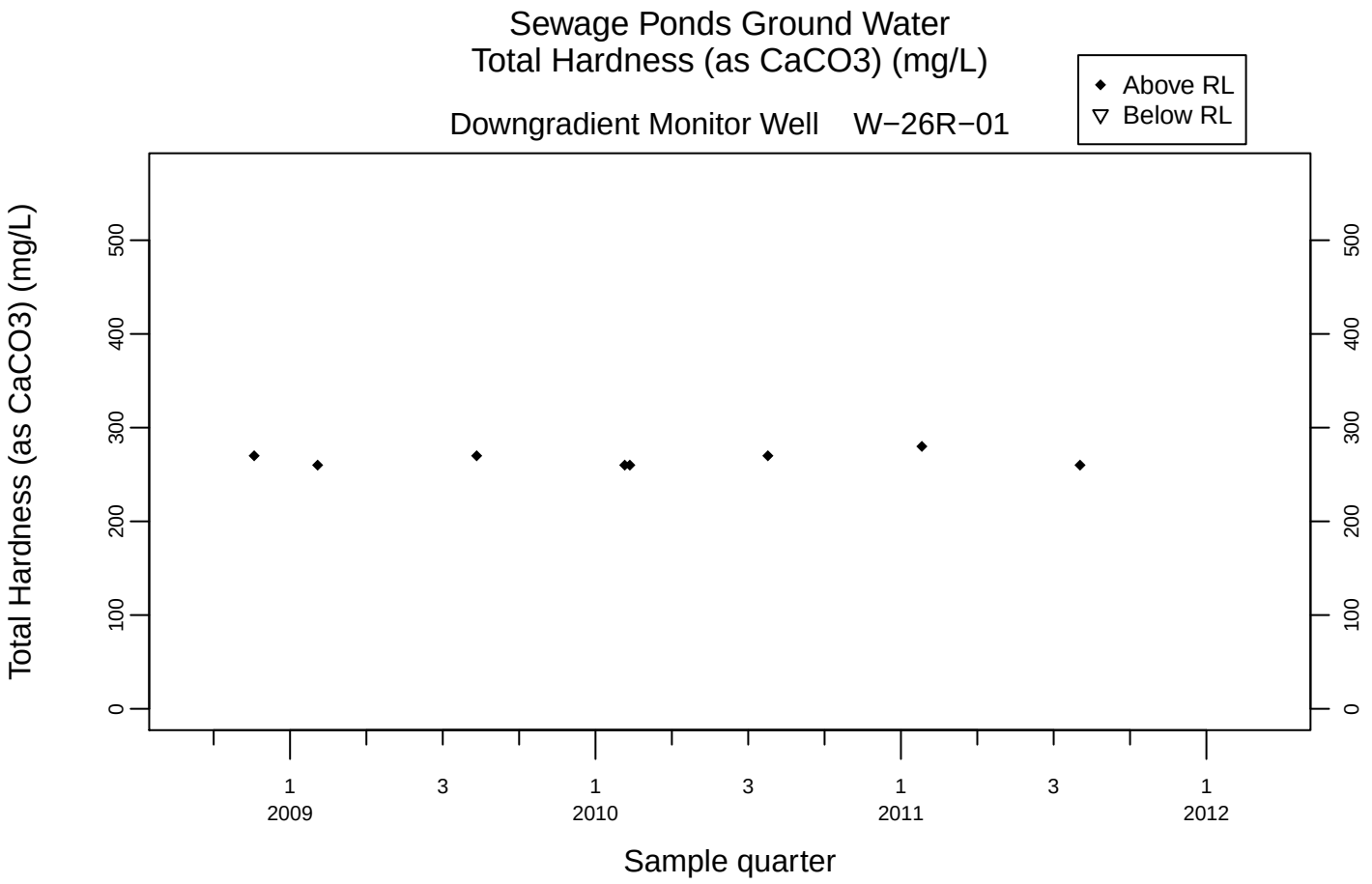

Upgradient Monitor Well W−7PS
Total Hardness (as CaCO3) (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

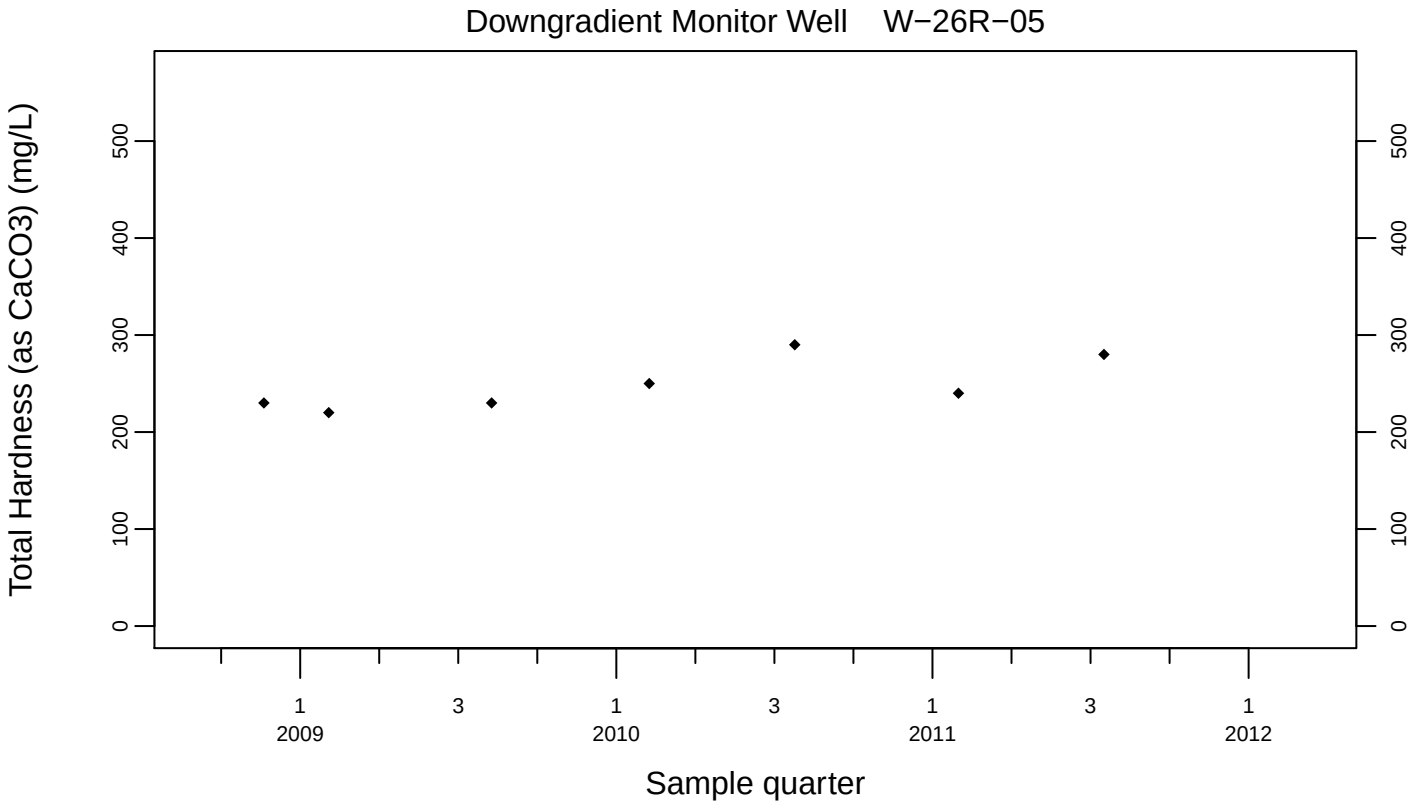

Sewage Ponds Ground Water
Total Hardness (as CaCO3) (mg/L)
Crossgradient Monitor Well W−35A−04
Above RL
Below RL
Total Hardness (as CaCO3) (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

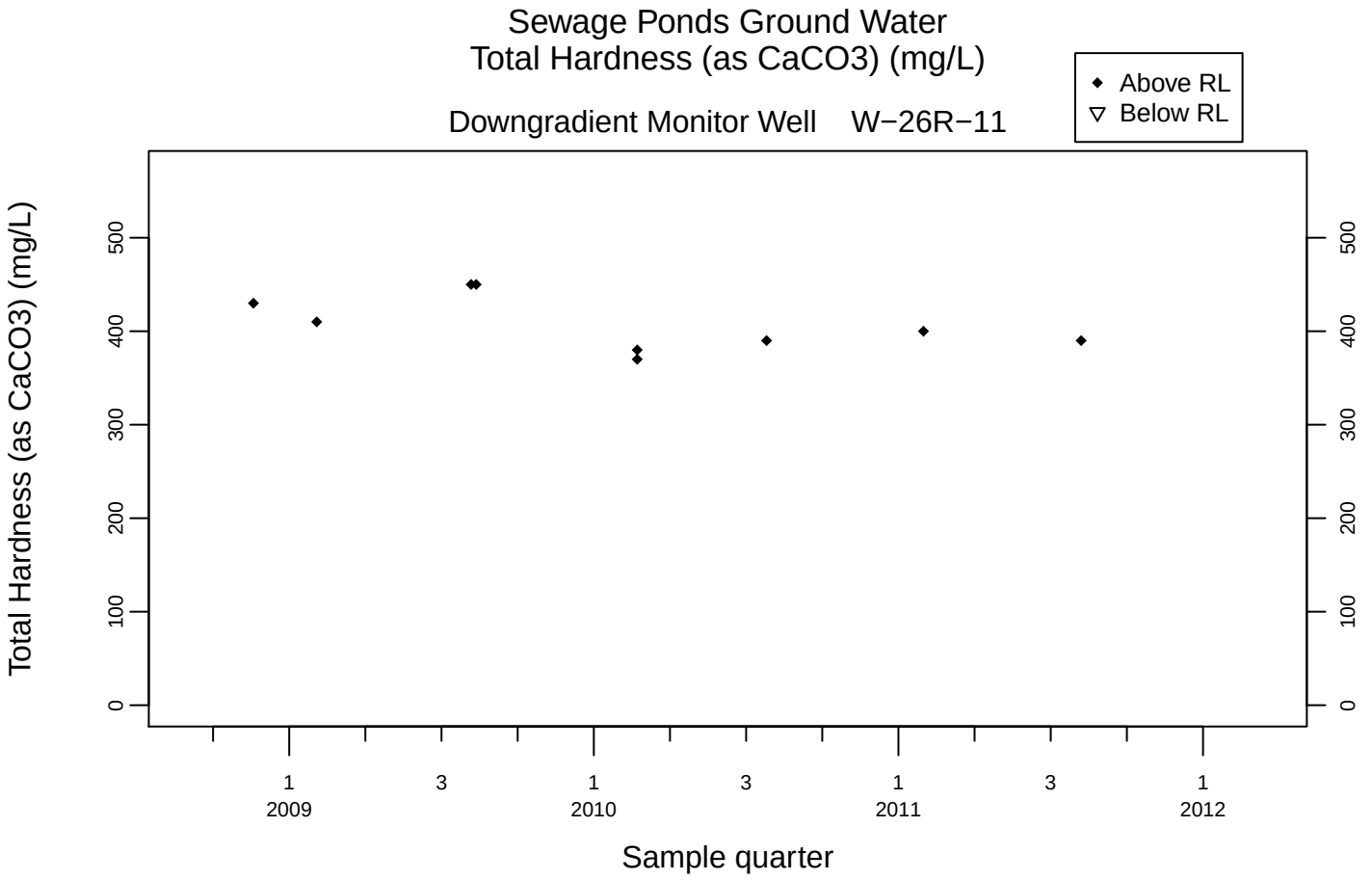

Downgradient Monitor Well W−7DS
Total Hardness (as CaCO3) (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

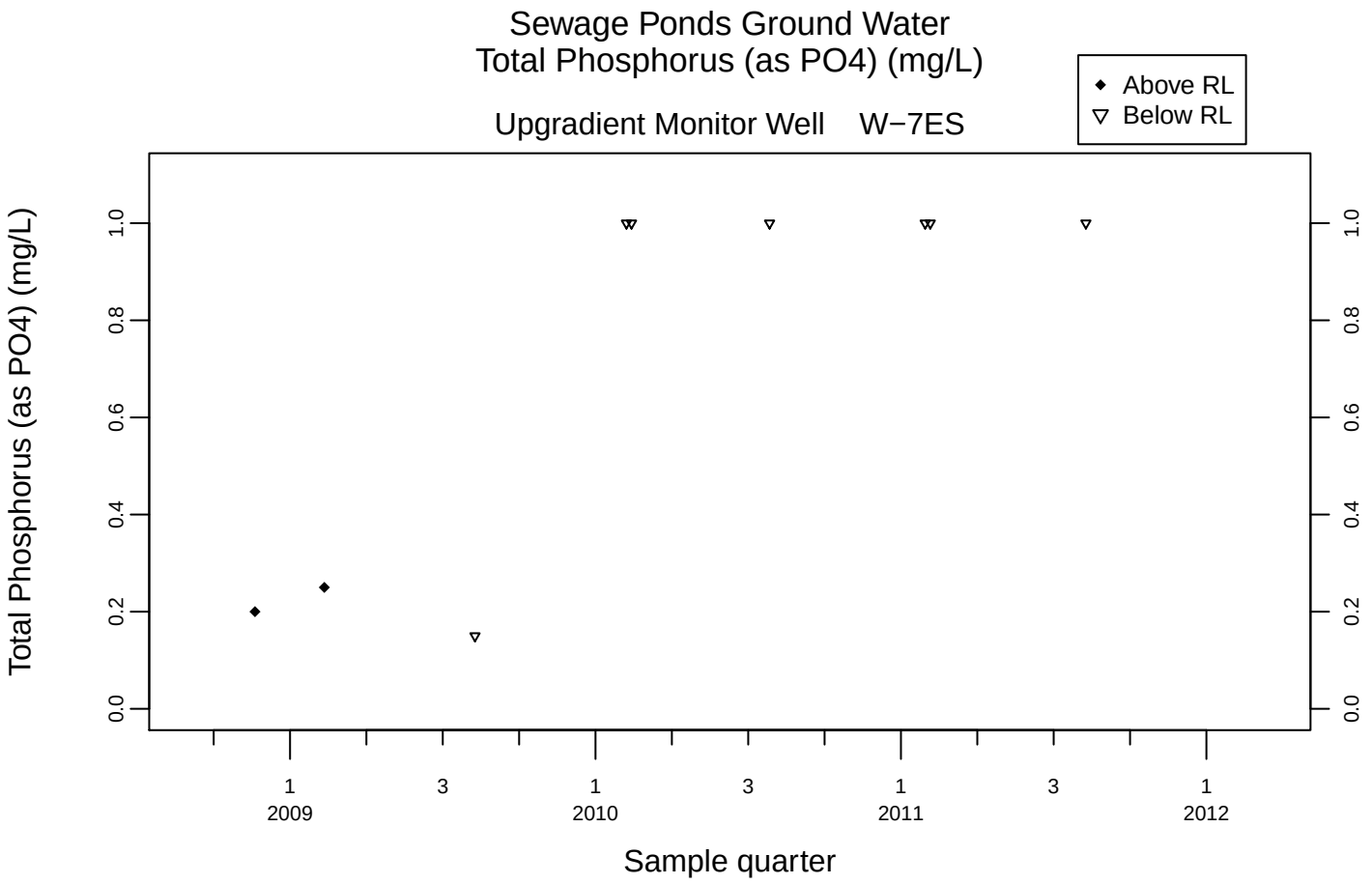

Sewage Ponds Ground Water
Total Hardness (as CaCO3) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Total Hardness (as CaCO3) (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

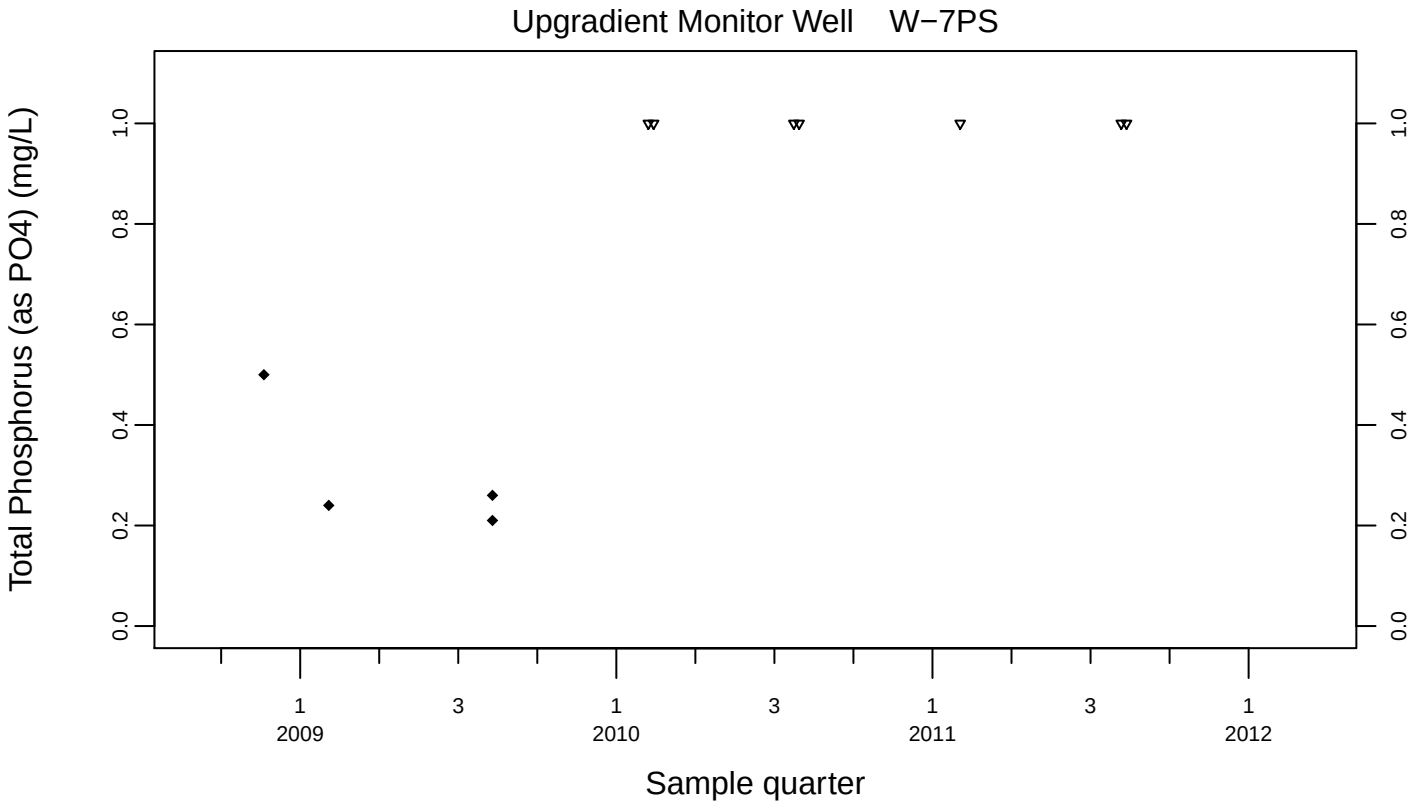

Downgradient Monitor Well W−25N−23
Total Hardness (as CaCO3) (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

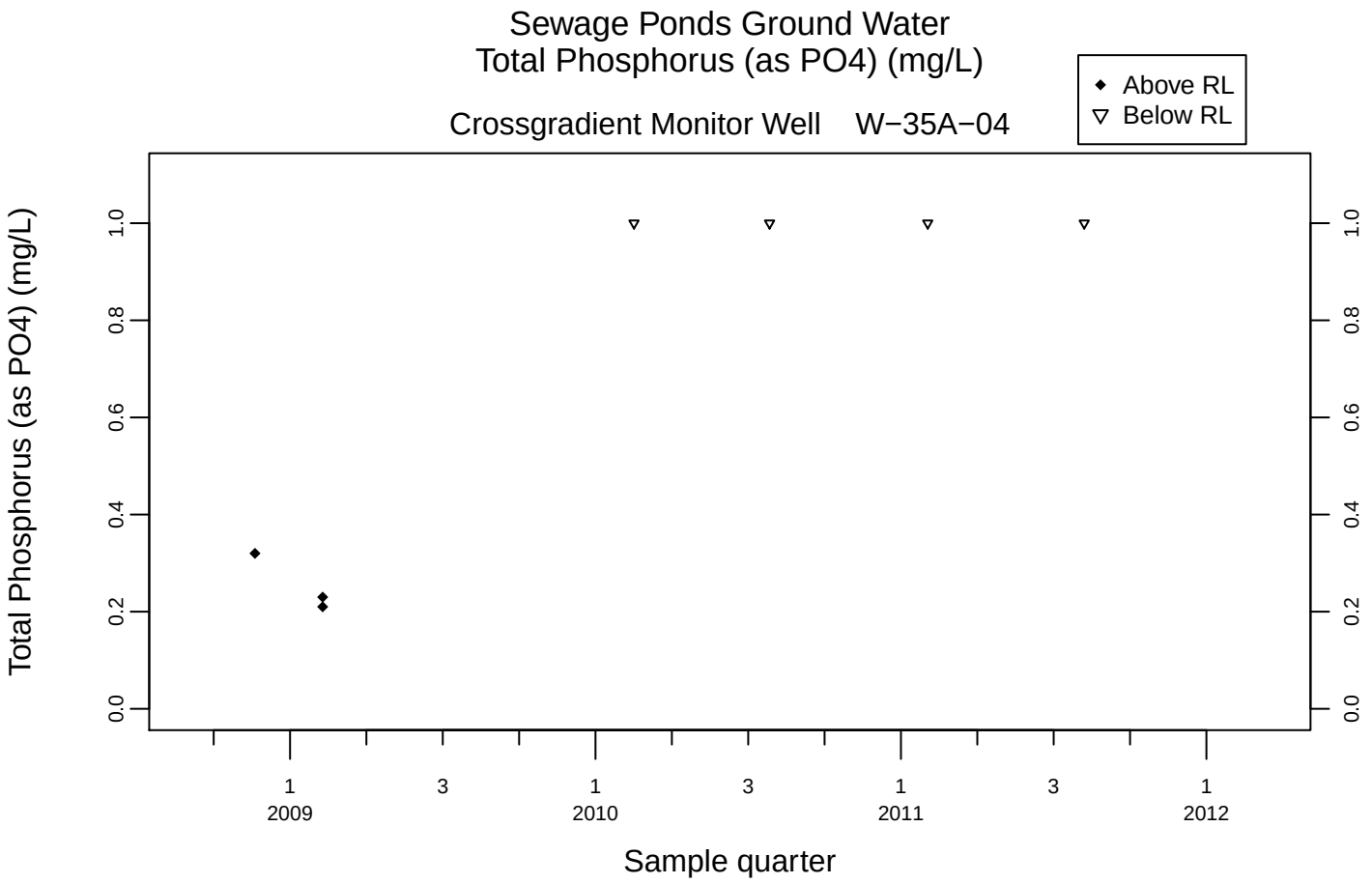

Sewage Ponds Ground Water
Total Hardness (as CaCO3) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Total Hardness (as CaCO3) (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

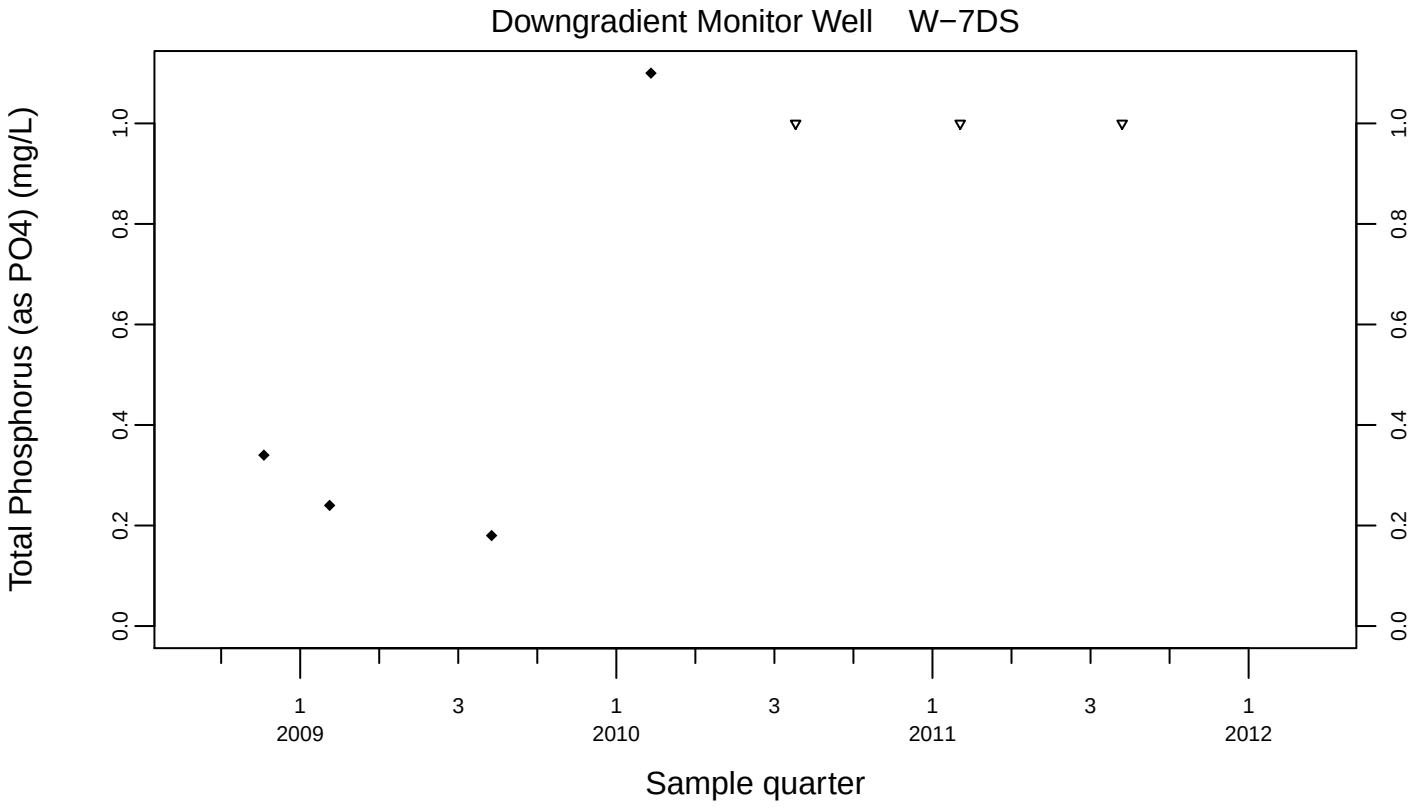

Downgradient Monitor Well W−26R−05
Total Hardness (as CaCO3) (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

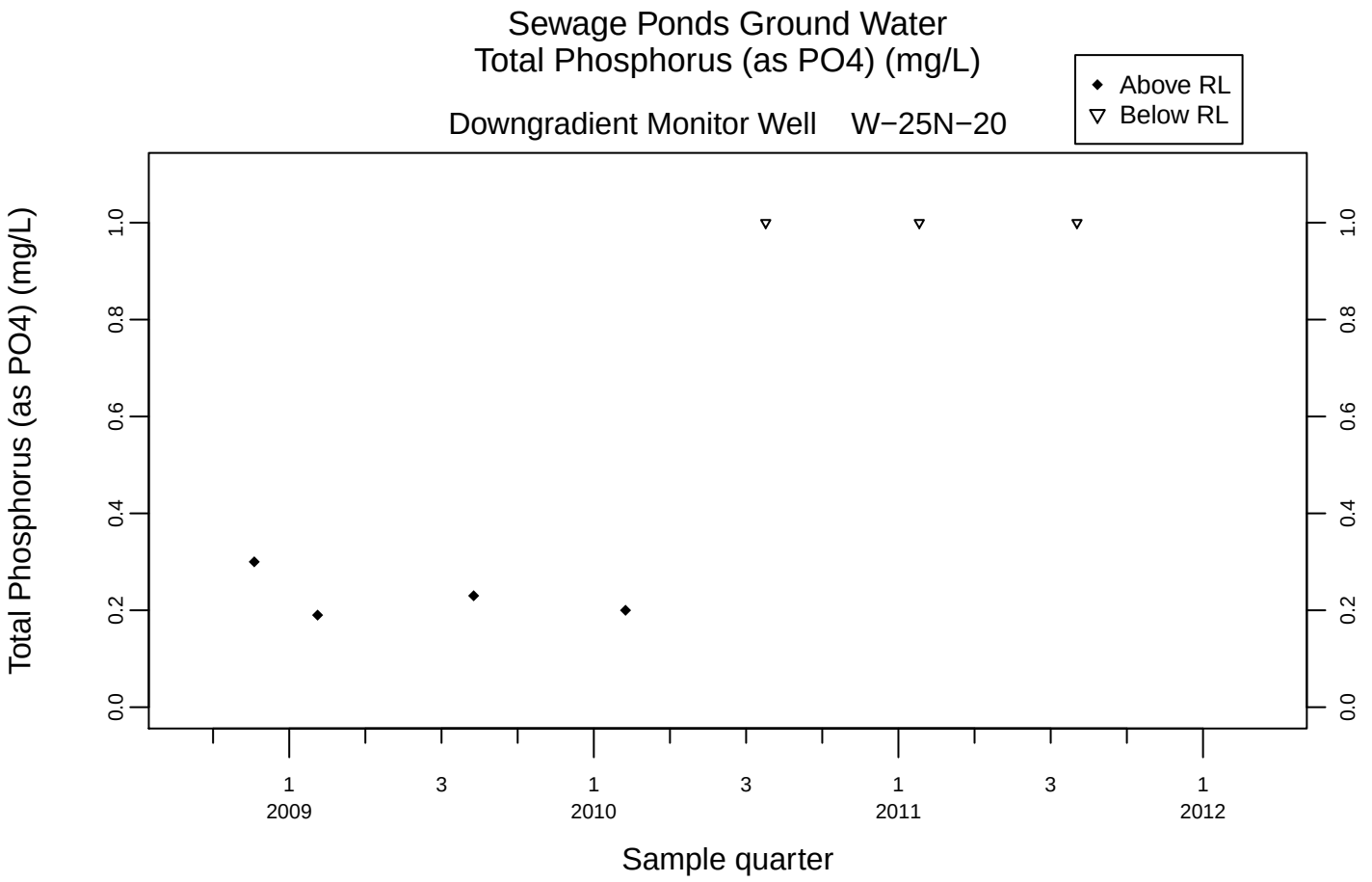

Sewage Ponds Ground Water
Total Hardness (as CaCO3) (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Total Hardness (as CaCO3) (mg/L)
0
100
200
300
400
500
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

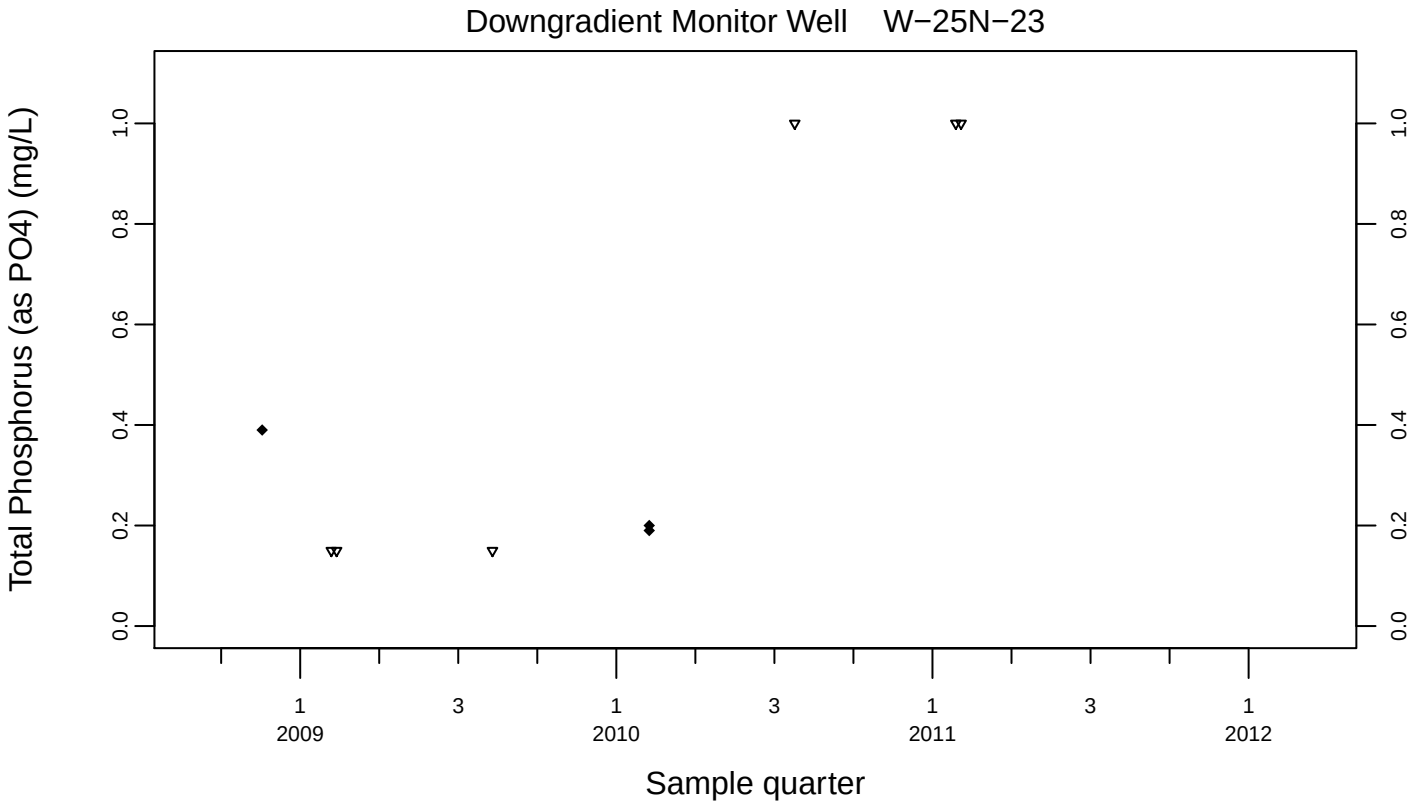

Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

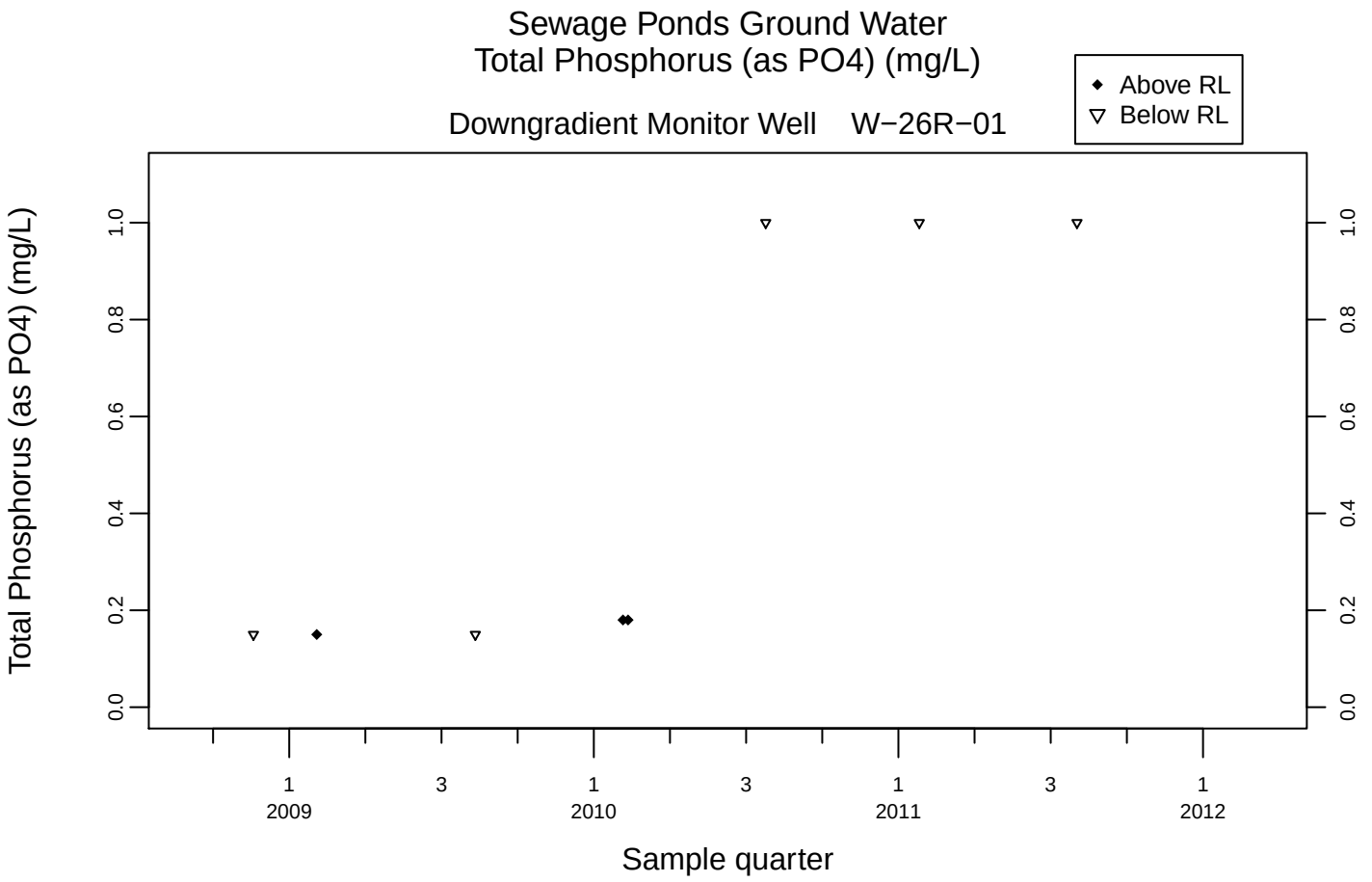

Upgradient Monitor Well W−7PS
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

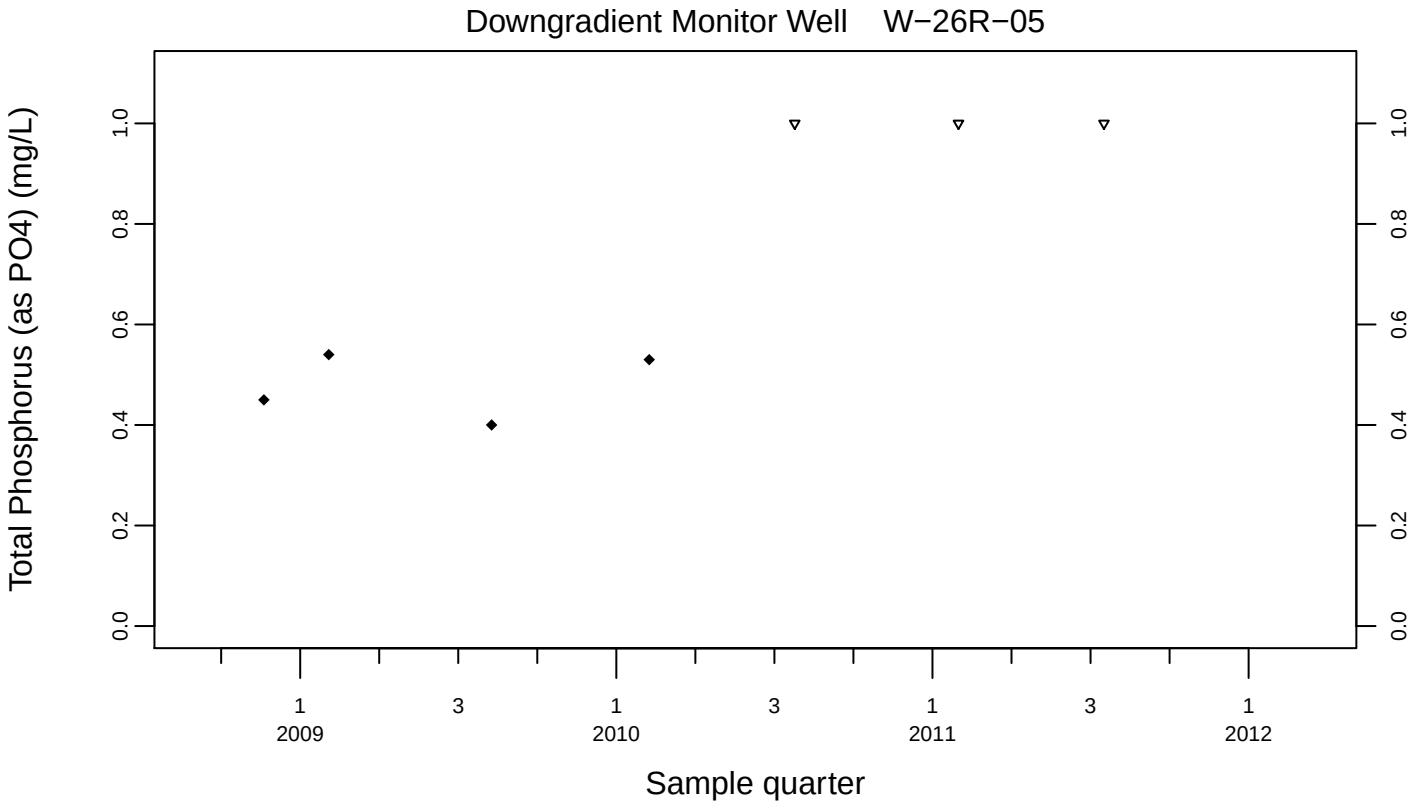

Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

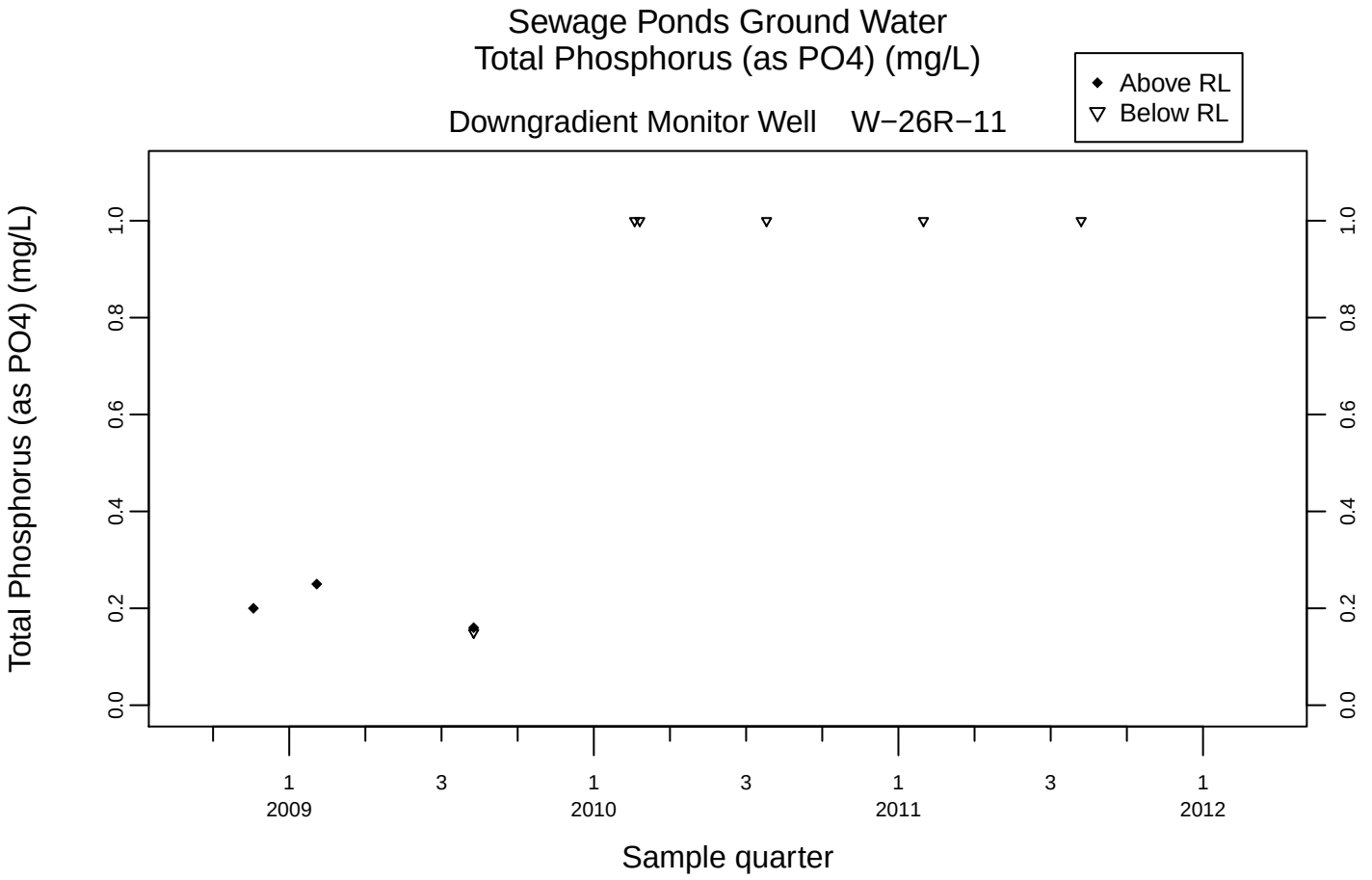

Downgradient Monitor Well W−7DS
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter


Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter


Downgradient Monitor Well W−25N−23
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter


Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter


Downgradient Monitor Well W−26R−05
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter


Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
1
2009
3
1
2010
3
1
2011
3
1
2012
Sample quarter

Appendix B

Cooling Tower Network

Cooling Tower Blow Down Effluent Monitoring Network with Discharges to Percolation Pits (Bldgs. 801, 809, 812, 817A, 825, 826, 827A, and 851) and

Cooling Tower Percolation Pit Inspection Forms

Table B-1. Site 300 cooling tower wastewater monitoring network annual/second semester 2011 anions data summary.

Building	Well	Date	Sodium (mg/L)	Chloride (mg/L)	Nitrate (as NO3) (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)
801	3-801ACT01-TW	May 24	460	170	0.77	330	0.50
801	3-801ACT01-TW	Oct 19	1,100	420	5.60	880	1.60
809	3-809ACT01-TW	May 24	240	86	<0.50	190	0.29
817	3-817ACT01-TW	May 24	220	80	<0.50	180	0.27
817	3-817ACT01-TW	Oct 19	230	86	0.58	180	0.37
825	3-825ACT01-TW	May 24	220	78	<0.50	170	0.25
825	3-825ACT01-TW	Oct 19	220	83	<0.50	180	0.34
826	3-826FCT01-TW	May 24	210	77	<0.50	170	0.28
826	3-826FCT01-TW	Oct 19	12,000; 220[a]	4,800; 82[a]	51; 0.61[a]	10,000; 170[a]	16; 0.33[a]
827	3-827ACT01-TW	May 24	210	76	<0.50	170	0.27
827	3-827ACT01-TW	Oct 19	240	95	1.20	200	0.51

[a] Resampled on January 30, 2012 as initial results were questioned as unusual.

Table B-2. Site 300 cooling tower wastewater monitoring network annual/second semester 2011 metals analysis data summary.

Analyte (µg/L)	Month	3-801ACT01-TW	3-809ACT01-TW	3-817ACT01-TW	3-825ACT01-TW	3-826FCT01-TW	3-827ACT01-TW
Aluminum	Q2	<50	<50	<50	<50	<50	68
	Q4	<100	-	<50	<50	<1,000; <50[a]	<50
Arsenic	Q2	<2	<2	<2	<2	<2	<2
	Q4	<2	-	<2	<2	12, <2	<2
Barium	Q2	<25	<25	<25	<25	<25	<25
	Q4	46	-	<25	<25	220; <25	<25
Boron	Q2	1,900	1,100	1,000	990	980	960
	Q4	4,400	-	960	920	43,000; 970	1,200
Cadmium	Q2	<50	<50	<50	<50	<50	<50
	Q4	<50	-	<50	<50	<250; <50	<50
Calcium	Q2	20,000	8,200	8,000	7.700	7400	9,200
	Q4	35,000	-	9,800	7.300	44,000; 8,800	9,600
Chromium	Q2	1.1	<1	<1	<1	<1	<1
	Q4	<2	-	1.0	<1	14, <1	<1
Hexavalent Chromium	Q2	<1	<1	<1	<1	<1	<1
	Q4	1.4	-	<1	<1	<1, <1	<1
Copper	Q2	8.0	16	20	15	5.6	25
	Q4	6.1	-	8.2	6.9	160; 9.8	9.8
Iron	Q2	200	<100	<100	<100	<100	260
	Q4	<200	-	<100	<100	<2,000; <100	<100
Lead	Q2	<5	<5	<5	<5	<5	<5
	Q4	<5	-	<5	<5	<25, <5	<5
Magnesium	Q2	<500	<500	<500	<500	<500	<500
	Q4	<1,000	-	<500	<500	<10,000; <500	<500
Manganese	Q2	<30	<30	<30	<30	<30	<30
	Q4	<60	-	<30	<30	<600, <30	<30
Molybdenum	Q2	41	<25	<25	<25	<25	<25
	Q4	95	-	<25	<25	1100, <25	25
Nickel	Q2	<2	<2	<2	<2	<2	<2
	Q4	<2	-	<2	<2	11, <2	<2
Potassium	Q2	18,000	8,900	8,500	8,300	8100	8,000
	Q4	38,000	-	8,300	7,900	380,000; 9,400	8,900
Selenium	Q2	<2	<2	<2	<2	<2	<2
	Q4	2.4	-	<2	<2	<50, <2	<2
Silver	Q2	<10	<10	<10	<10	<10	<10
	Q4	<1	-	<1	<1	<5, <1	<1
Vanadium	Q2	<20	<20	<20	<20	<20	<20
	Q4	<20	-	<20	<20	<100; <20	<20
Zinc	Q2	55	21	64	110	89	130
	Q4	<20	-	66	55	<100; 100	39

[a] Resampled on January 30, 2012 as initial results were questioned as unusual.

Table B-3. Site 300 cooling tower wastewater monitoring network annual/second semester 2011 physical characteristics data summary.

Location	Well	Date	pH	Specific Conductance (µmhos/cm)	Total Alkalinity (as CaCO3) (mg/L)	Total dissolved solids (mg/L)	Total Hardness (as CaCO3) (mg/L)	Total Phosphorus (as PO4) (mg/L)
B801	3-801ACT01-TW	May 24	9.1	1,890	390	1,400	50	0.85
B801	3-801ACT01-TW	Oct 19	9.2	4,390	930	3,300	91	0.83
B809	3-809ACT01-TW	May 24	8.6	1,060	220	760	22	0.31
B817	3-817ACT01-TW	May 24	8.7	996	210	720	21	0.46
B817	3-817ACT01-TW	Oct 19	8.6	1,050	210	740	25	0.71
B825	3-825ACT01-TW	May 24	8.4	975	200	680	20	0.20
B825	3-825ACT01-TW	Oct 19	8.2	1,020	200	710	20	<0.15
B826	3-826FCT01-TW	May 24	8.3	970	200	690	20	<0.15
B826	3-826FCT01-TW	Oct 19	9.6	33,600; 1,030[a]	8,700; 200[a]	24,000; 740[a]	140; 23[a]	35; <0.15[a]
B827	3-827ACT01-TW	May 24	8.5	958	200	630	24	0.78
B827	3-827ACT01-TW	Oct 19	8.6	1,170	230	840	25	0.41

[a] Resampled on January 30, 2012 as initial results were questioned as unusual.

Table B-4. Site 300 cooling tower wastewater monitoring network annual/second semester 2011 QA data summary.

Constituent	Units	3-827ACT01-TW May 24 Routine	3-827ACT01-TW May 24 Duplicate
pH		8.5	8.5
Specific Conductance	µmhos/cm	958	958
Aluminum	µg/L	68	<50
Arsenic	µg/L	<2	<2
Barium	µg/L	<25	<25
Boron	µg/L	960	970
Cadmium	µg/L	<50	<50
Calcium	µg/L	9,200	9,100
Chromium	µg/L	<1	<1
Hexavalent Chromium	µg/L	<1	<1
Copper	µg/L	25	21
Iron	µg/L	260	210
Lead	µg/L	<5	<5
Magnesium	µg/L	<500	<500
Manganese	µg/L	<30	<30
Molybdenum	µg/L	<25	<25
Nickel	µg/L	<2	<2
Potassium	µg/L	8,000	8,100
Selenium	µg/L	<2	<2
Silver	µg/L	<10	<10
Vanadium	µg/L	<20	<20
Zinc	µg/L	130	110
Sodium	mg/L	210	210
Chloride	mg/L	76	76
Nitrate (as NO3)	mg/L	<0.5	<0.5
Sulfate	mg/L	170	170
Fluoride	mg/L	0.27	0.28
Total Alkalinity (as	mg/L	200	200
Total dissolved solids	mg/L	630	670
Total Hardness (as	mg/L	24	23
Total Phosphorus (as PO4)	mg/L	0.78	0.93

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	54672	
Caltest		

pH meter calibrated on: 10/19

Specific Conductance meter calibrated on: 10/19

Sample Date: 10/19/11

Location Indentifier	Location DUP taken - year/quarter	Sample Time	Initials	Field Measurments		BC Labs			Comments
				pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000mL Poly	
3-801ACT01-TW	2009/2nd	955	KB	9.17	4.64ms	✓	✓	✓	
3-809ACT01-TW	2009/4th	NOT	Running						
3-812AFCT01-TW	2008/4th	Not in use							
3-817ACT01-TW	2010/2nd	910	KB	8.91	1059uS	✓	✓	✓	
3-825ACT01-TW		930	KB	9.41	1225uS	✓	✓	✓	
3-826FCT01-TW	2010/4th	925	KB	9.83	924 uS	✓	✓	✓	
3-827ACT01-TW	2011/2nd	940	KB	8.87	1164uS	✓	✓	✓	
3-851BFCT03-TW	2011/4th	1010	KB	9.05	1336uS	✓	✓	✓	
Duplicate of 3-851BFCT01-TW									
3-B9900-01-TW		1010	KB			✓	✓	✓	

☑ Copy to Analyst, Rick Blake.

☐ Copy of CoC given to TRR

Rev. 9-27-11

Chain of Custody

EPD: EMAD/PRAD/ESPD
Lawrence Livermore National Laboratory
P.O. Box 808 L-629
Livermore, CA 94551

Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 54672
Document Control #: 54672
Requester/LLNL Analyst: R. Blake
Organization / Sampler: EPD / brunckhorst2
PCI Project #: 35166
PCI Task #: 1.03.02.06.02.08
Fax/Email #1: swanson15@llnl.gov
DMT Additional Copies:

Analytical Lab : BCLABS-BAK
TAT: 20d
Analytical Lab Log #:
Project/Network: COOLTOWER
LLNL Acct #: 3297-47
Release #: UNICARD
Fax/Email #2:

Additional Instructions:

Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-801ACT01-01-TW	10/19/2011 09:55	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-801ACT01-01-TW	10/19/2011 09:55	TW	P	1	COOLTOWER	S3METALS	ALL	
3-801ACT01-01-TW	10/19/2011 09:55	TW	P	0	COOLTOWER	S3METALS	TOTAL	
3-801ACT01-01-TW	10/19/2011 09:55	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-817ACT01-01-TW	10/19/2011 09:10	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-817ACT01-01-TW	10/19/2011 09:10	TW	P	1	COOLTOWER	S3METALS	ALL	
3-817ACT01-01-TW	10/19/2011 09:10	TW	P	0	COOLTOWER	S3METALS	TOTAL	
3-817ACT01-01-TW	10/19/2011 09:10	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-825ACT01-01-TW	10/19/2011 09:30	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-825ACT01-01-TW	10/19/2011 09:30	TW	P	1	COOLTOWER	S3METALS	ALL	
3-825ACT01-01-TW	10/19/2011 09:30	TW	P	0	COOLTOWER	S3METALS	TOTAL	
3-825ACT01-01-TW	10/19/2011 09:30	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-826FCT01-01-TW	10/19/2011 09:25	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-826FCT01-01-TW	10/19/2011 09:25	TW	P	1	COOLTOWER	S3METALS	ALL	
3-826FCT01-01-TW	10/19/2011 09:25	TW	P	0	COOLTOWER	S3METALS	TOTAL	
3-826FCT01-01-TW	10/19/2011 09:25	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-827ACT01-01-TW	10/19/2011 09:40	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-827ACT01-01-TW	10/19/2011 09:40	TW	P	1	COOLTOWER	S3METALS	ALL	
3-827ACT01-01-TW	10/19/2011 09:40	TW	P	0	COOLTOWER	S3METALS	TOTAL	
3-827ACT01-01-TW	10/19/2011 09:40	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-851BFCT03-01-TW	10/19/2011 10:10	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-851BFCT03-01-TW	10/19/2011 10:10	TW	P	1	COOLTOWER	S3METALS	ALL	
3-851BFCT03-01-TW	10/19/2011 10:10	TW	P	0	COOLTOWER	S3METALS	TOTAL	
3-851BFCT03-01-TW	10/19/2011 10:10	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-B9900-01-TW	10/19/2011 10:10	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-B9900-01-TW	10/19/2011 10:10	TW	P	1	COOLTOWER	S3METALS	ALL	
3-B9900-01-TW	10/19/2011 10:10	TW	P	0	COOLTOWER	S3METALS	TOTAL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1	LLNL/EPD	10/19/2011		2			
2				3			
3				4			
4				5			

Revision Printed: 09/13/2011/15/50/25

Signature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT

Chain of Custody

EPD: EMAD/PRAD/ESPD
Lawrence Livermore National Laboratory
P.O. Box 808 L-629
Livermore, CA 94551

Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 54672
Document Control #: 54672
Requester/LLNL Analyst: R. Blake
Organization / Sampler: EPD / brunckhorst2
PCI Project #: 35166
PCI Task #: 1.03.02.06.02.08
Fax/Email #1: swanson15@llnl.gov
DMT Additional Copies:

Analytical Lab : BCLABS-BAK
TAT: 20d
Analytical Lab Log #:
Project/Network: COOLTOWER
LLNL Acct #: 3297-47
Release #: UNICARD
Fax/Email #2:

Additional Instructions:

Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-B9900-01-TW	10/19/2011 10:10	TW	P	1	COOLTOWER	S3WETCHEM	ALL	

	Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1		LLNL/EPD	10/19/2011		2			
2					3			
3					4			
4					5			

Revision Printed: 09/13/2011/15/50/25

Signature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT

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	55668	
Caltest		

pH meter calibrated on: 1/30/12
Specific Conductance meter calibrated on: 1/30/12

Sample Date: 1/30/12

Location Indentifier	Location DUP taken - year/quarter	Sample Time	Initials	Field Measurments		BC Labs			Comments
				pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000mL Poly	
3-801ACT01-TW	2009/2nd								
3-809ACT01-TW	2009/4th								
3-812AFCT01-TW	2008/4th	Not in use							
3-817ACT01-TW	2010/2nd								
3-825ACT01-TW									
3-826FCT01-TW	2010/4th	0950	KS	8.91	990 µs				Resample
3-827ACT01-TW	2011/2nd								
3-851BFCT03-TW	2011/4th								
Duplicate of 3-851BFCT01-TW									
3-B9900-01-TW									

☑ Copy to Analyst, Rick Blake. ☐ Copy of CoC given to TRR

Rev. 9-27-11

Chain of Custody

EPD: EMAD/PRAD/ESPD
Lawrence Livermore National Laboratory
P.O. Box 808 L-629
Livermore, CA 94551

Work Authorized By: EPD
TRR Approver: RUDY JIMENEZ
Project Info:

Access/COC #: 55668
Document Control #: 55668
Requester/LLNL Analyst: R. Blake
Organization / Sampler: EPD / brunckhorst2
PCI Project #: 35166
PCI Task #: 1.03.02.06.02.08
Fax/Email #1: swanson15@llnl.gov
DMT Additional Copies:

Analytical Lab : BCLABS-BAK
TAT: 5d
Analytical Lab Log #:
Project/Network: COOLTOWER
LLNL Acct #: 3297-47
Release #:
Fax/Email #2: 925-422-2748

Additional Instructions:

Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-826FCT01-01-TW	01/30/2012 09:50	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-826FCT01-01-TW	01/30/2012 09:50	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-826FCT01-01-TW	01/30/2012 00:00	TW	P	0	COOLTOWER	S3METALS	ALL	
3-826FCT01-01-TW	01/30/2012 09:50	TW	P	1	COOLTOWER	S3WETCHEM	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1	LLNL/EPD	1/30/2012	1100	2			
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 6-8-11 Inspector D. LAVORUM 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?	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 [signature] Date 6-8-11

* 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 6-8-11 Inspector D. Lanzara 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/~~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 [signature] Date 6-8-11

* 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 6-8-11 Inspector D. Lawson Building Number 817-A

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)	
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 [signature] Date 6-8-11

* 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 6-8-11 Inspector D. Lanham 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)	
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 Dave Arnold Date 6-8-11

* 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 6-8-11 Inspector D. LARSEN Building Number 827-A

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)	
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 D. Larsen Date 6-8-11

* 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 6-8-11 Inspector D. Landeros 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~~	
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 Dave Amero Date 6-8-11

* 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 7-20-11 Inspector D. Lawson 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?	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 Dave Amero Date 7-20-11

* 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 7-20-11 Inspector D. Hudman 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/(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 Dave Amrine Date 7-20-11

* 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 7-20-11 Inspector D. Lawson Building Number 817-A

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)	
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 D. Lawson Date 7-20-11

* 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 7-20-11 Inspector O. LAUGHLIN 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)	
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 Dave Arnold Date 7-20-11

* 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 7-20-11 Inspector D. Lousam Building Number 827-A

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)	
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 D. Lousam Date 7-20-11

* 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 7-20-11 Inspector D. LARSEN 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)	
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 Dave Amero Date 7-20-11

* 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 8-3-11 Inspector D. LANDRUM 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?	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 D. LANDRUM Date 8-3-11

* 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 8-3-11 Inspector D. LAUGHLIN 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/(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 Dane Amend Date 8-3-11

* 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 8-3-11 Inspector D. LAVOIE Building Number 817-A

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)	
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 [signature] Date 8-3-11

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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 8-3-11 Inspector D. LAUDENN 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~~	
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 [signature] Date 8-3-11

* 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 8-3-11 Inspector D. LANDRUM Building Number 827-A

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)	
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 Dale Arnold Date 8-3-11

* 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 8-3-11 Inspector D. Landeau 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~~	
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 Dave Amero Date 8-3-11

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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 9-14-11 Inspector D. LAUDRUM 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?	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 DAVE ANNEVO Date 9-14-11

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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 9-14-11 Inspector D. LaCorgne 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/~~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 Dave Amorso Date 9-14-11

* 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 9-14-11 Inspector D. Langsam Building Number 817-A

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~~	
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 9-14-11

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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 9-14-11 Inspector D. Lawson 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~~	
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 [signature] Date 9-14-11

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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 9-14-11 Inspector D. Larson Building Number 827-A

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~~	
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 [signature] Date 9-14-11

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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 9-14-11 Inspector D. LANDRUM 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~~	
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 Dave Arnold Date 9-14-11

* 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 10-18-11 Inspector D. LANDRUM 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?	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 D. LANDRUM Date 10-18-11

* 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 10-18-11 Inspector D. LANDRUM 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/~~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 D. LANDRUM Date 10-18-11

* 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 10-18-11 Inspector D. Lawson Building Number 817-A

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~~	
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 D. Lawson Date 10-18-11

* 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 10-18-11 Inspector D. LAUGRAN 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~~	
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 D. Laugran Date 10-18-11

* 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 10-18-11 Inspector D. Lawson Building Number 820-A

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~~	
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 Dave Amend Date 10-18-11

* 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 10-18-11 Inspector D. LANDRUM 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~~ ✓	
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 Dave Anson Date 10-18-11

* 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 11-2-11 Inspector D. Larsen 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?	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 [signature] Date 11-2-11

* 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 11-2-11 Inspector D. LANDSMAN 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/~~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 [signature] Date 11-2-11

* 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 11-2-11 Inspector D. Langsam Building Number 817-A

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~~	
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 [signature] Date 11-2-11

* 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 11-2-11 Inspector D. LANDRUM 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~~	
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 [signature] Date 11-2-11

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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 11-2-11 Inspector D. Larsen 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?	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 [signature] Date 11-2-11

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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 11-2-11 Inspector D. LANDAUER 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/~~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 [signature] Date 11-2-11

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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 11-2-11 Inspector D. Langsam Building Number 817-A

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~~	
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 [signature] Date 11-2-11

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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 11-2-11 Inspector D. LANDRUM 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~~	
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 D. LANDRUM Date 11-2-11

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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 11-2-11 Inspector D. Lacorte 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	Response	Description and Comments:
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 Dave Arnold Date 11-2-11

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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 11-2-11 Inspector D. Landrum 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~~	
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 Dave Amaro Date 11-2-11

* 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 12-21-11 Inspector D. LANDRUM 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?	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 D. LANDRUM Date 12-21-11

* 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 12-21-11 Inspector D. Langum 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/(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 Dave Amrod Date 12-21-11

* 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 12-21-11 Inspector D. LANDRUM Building Number 817-A

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)	
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 Dave Amrozo Date 12-21-11

* 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 12-21-11 Inspector D. LANDRUM 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)	
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 Dave Amaro Date 12-21-11

* 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 12-21-11 Inspector D. Grayson 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	Response	Description and Comments:
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 D. Grayson Date 12-21-11

* 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 12-21-11 Inspector D. Henderson 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)	
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 Dave Arnold Date 12-21-11

* 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 and 827A, 827C, 827D, and 827E

Mechanical Equipment Room Percolation Pit Inspection Forms

Table C-1. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 anions data summary.

Well	Date	Nitrate (as NO3) mg/L	Fluoride mg/L	Chloride mg/L	Sulfate mg/L
B806B	May 3	<0.5	0.25	70	150
B806B	Oct 3	<0.5	0.30	87	170
B827A	May 10	<0.5	0.51	110	220
B827A	May 10 DUP	<0.5	0.52	100	220
B827A	Oct 11	0.61	0.44	96	200
B827C	May 9	<0.5	0.49	120	250
B827C	Oct 11	<0.5	0.40	90	180
B827D	May 5	<0.5	0.28	82	170
B827D	Oct 10	<0.5	0.32	130	280
B827E	May 18	<0.5	0.28	77	170
B827E	Oct 5	12	0.43	180	220
B827E	Oct 5 DUP	12	0.46	180	220

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 metals data summary.

Analyte	Date	B806B	B827A	B827A DUP	B827C	B827D	B827E	B827E DUP
Aluminum (mg/L)	May 3	<0.05	-	-	-	-	-	-
	May 5	-	-	-	-	<0.05	-	-
	May 9	-	-	-	<0.05	-	-	-
	May 10	-	<0.05	<0.05	-	-	-	-
	May 18	-	-	-	-	-	<0.05	-
	Oct 3	<0.05	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	6.5	6.0
	Oct 10	-	-	-	-	0.096	-	-
	Oct 11	-	<0.05	-	<0.05	-	-	-
Arsenic (mg/L)	May 3	<0.002	-	-	-	-	-	-
	May 5	-	-	-	-	<0.002	-	-
	May 9	-	-	-	<0.002	-	-	-
	May 10	-	<0.002	<0.002	-	-	-	-
	May 18	-	-	-	-	-	<0.002	-
	Oct 3	<0.002	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.002	0.0055
	Oct 10	-	-	-	-	<0.002	-	-
	Oct 11	-	<0.002	-	<0.002	-	-	-
Barium (mg/L)	May 3	<0.025	-	-	-	-	-	-
	May 5	-	-	-	-	<0.025	-	-
	May 9	-	-	-	<0.025	-	-	-
	May 10	-	<0.025	<0.025	-	-	-	-
	May 18	-	-	-	-	-	<0.025	-
	Oct 3	<0.025	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.025	0.055
	Oct 10	-	-	-	-	<0.025	-	-
	Oct 11	-	<0.025	-	<0.025	-	-	-
Boron (mg/L)	May 3	0.84	-	-	-	-	-	-
	May 5	-	-	-	-	0.92	-	-
	May 9	-	-	-	1.4	-	-	-
	May 10	-	1.4	1.3	-	-	-	-
	May 18	-	-	-	-	-	0.92	-
	Oct 3	0.90	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	0.89	0.85
	Oct 10	-	-	-	-	1.5	-	-
	Oct 11	-	1.1	-	0.97	-	-	-
Cadmium (mg/L)	May 3	<0.05	-	-	-	-	-	-
	May 5	-	-	-	-	<0.05	-	-
	May 9	-	-	-	<0.05	-	-	-
	May 10	-	<0.05	<0.05	-	-	-	-
	May 18	-	-	-	-	-	<0.05	-
	Oct 3	<0.05	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.05	<0.05
	Oct 10	-	-	-	-	<0.05	-	-
	Oct 11	-	<0.05	-	<0.05	-	-	-

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 metals data summary. (Cont.)

Chromium (mg/L)	May 3	<0.001	-	-	-	-	-	-
	May 5	-	-	-	-	<0.001	-	-
Chromium (mg/L)	May 9	-	-	-	0.0011	-	-	-
	May 10	-	<0.001	<0.001	-	-	-	-
	May 18	-	-	-	-	-	<0.001	-
	Oct 3	<0.001	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	0.011	0.012
	Oct 10	-	-	-	-	0.0022	-	-
	Oct 11	-	<0.001	-	<0.001	-	-	-
Hexavalent Chromium (mg/L)	May 3	<0.001	-	-	-	-	-	-
	May 5	-	-	-	-	<0.001	-	-
	May 9	-	-	-	<0.001	-	-	-
	May 10	-	<0.001	<0.001	-	-	-	-
	May 18	-	-	-	-	-	<0.001	-
	Oct 3	<0.001	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.001	<0.001
	Oct 10	-	-	-	-	<0.001	-	-
	Oct 11	-	<0.001	-	<0.001	-	-	-
Copper (mg/L)	May 3	0.059	-	-	-	-	-	-
	May 5	-	-	-	-	0.033	-	-
	May 9	-	-	-	0.96	-	-	-
	May 10	-	0.0098	0.0098	-	-	-	-
	May 18	-	-	-	-	-	0.018	-
	Oct 3	0.052	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.001	0.69
	Oct 10	-	-	-	-	0.45	-	-
	Oct 11	-	0.0064	-	0.027	-	-	-
Iron (mg/L)	May 3	<0.1	-	-	-	-	-	-
	May 5	-	-	-	-	1.2	-	-
	May 9	-	-	-	3.6	-	-	-
	May 10	-	0.12	0.12	-	-	-	-
	May 18	-	-	-	-	-	0.38	-
	Oct 3	<0.1	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	12	11
	Oct 10	-	-	-	-	7.1	-	-
	Oct 11	-	<0.1	-	1.0	-	-	-
Lead (mg/L)	May 3	<0.005	-	-	-	-	-	-
	May 5	-	-	-	-	<0.005	-	-
	May 9	-	-	-	0.0096	-	-	-
	May 10	-	<0.005	<0.005	-	-	-	-
	May 18	-	-	-	-	-	<0.005	-
	Oct 3	<0.005	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.005	0.023
	Oct 10	-	-	-	-	0.0081	-	-
	Oct 11	-	<0.005	-	<0.005	-	-	-

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 metals data summary. (Cont.)

Manganese (mg/L)	May 3	<0.03	-	-	-	-	-	-
	May 5	-	-	-	-	<0.03	-	-
	May 9	-	-	-	0.22	-	-	-
	May 10	-	<0.03	<0.03	-	-	-	-
	May 18	-	-	-	-	-	<0.03	-
	Oct 3	<0.03	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	0.18	0.16
	Oct 10	-	-	-	-	0.13	-	-
	Oct 11	-	<0.03	-	<0.03	-	-	-
Molybdenum (mg/L)	May 3	<0.025	-	-	-	-	-	-
	May 5	-	-	-	-	<0.025	-	-
	May 9	-	-	-	0.025	-	-	-
	May 10	-	0.026	0.027	-	-	-	-
	May 18	-	-	-	-	-	<0.025	-
	Oct 3	<0.025	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.025	<0.025
	Oct 10	-	-	-	-	0.032	-	-
	Oct 11	-	<0.025	-	<0.025	-	-	-
Nickel (mg/L)	May 3	<0.002	-	-	-	-	-	-
	May 5	-	-	-	-	<0.002	-	-
	May 9	-	-	-	0.014	-	-	-
	May 10	-	<0.002	<0.002	-	-	-	-
	May 18	-	-	-	-	-	<0.002	-
	Oct 3	<0.002	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.002	0.016
	Oct 10	-	-	-	-	0.0065	-	-
	Oct 11	-	<0.002	-	<0.002	-	-	-
Selenium (mg/L)	May 3	<0.002	-	-	-	-	-	-
	May 5	-	-	-	-	<0.002	-	-
	May 9	-	-	-	<0.002	-	-	-
	May 10	-	<0.002	<0.002	-	-	-	-
	May 18	-	-	-	-	-	<0.002	-
	Oct 3	<0.002	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.002	<0.002
	Oct 10	-	-	-	-	<0.002	-	-
	Oct 11	-	<0.002	-	<0.002	-	-	-
Silver (mg/L)	May 3	<0.01	-	-	-	-	-	-
	May 5	-	-	-	-	<0.01	-	-
	May 9	-	-	-	<0.01	-	-	-
	May 10	-	<0.01	<0.01	-	-	-	-
	May 18	-	-	-	-	-	<0.01	-
	Oct 3	<0.001	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.01	<0.01
	Oct 10	-	-	-	-	<0.01	-	-
	Oct 11	-	<0.01	-	<0.01	-	-	-
Sodium (mg/L)	May 3	200	-	-	-	-	-	-
	May 5	-	-	-	-	240	-	-
	May 9	-	-	-	350	-	-	-
	May 10	-	290	290	-	-	-	-
	May 18	-	-	-	-	-	230	-
	Oct 3	210	-	-	-	-	-	-

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 metals data summary. (Cont.)

Sodium (mg/L) (cont.)	Oct 5	-	-	-	-	-	290	280
	Oct 10	-	-	-	-	360	-	-
	Oct 11	-	240	-	250	-	-	-
Vanadium (mg/L)	May 3	<0.02	-	-	-	-	-	-
	May 5	-	-	-	-	<0.02	-	-
	May 9	-	-	-	<0.02	-	-	-
	May 10	-	<0.02	<0.02	-	-	-	-
	May 18	-	-	-	-	-	<0.02	-
	Oct 3	<0.02	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.02	0.032
	Oct 10	-	-	-	-	<0.02	-	-
	Oct 11	-	<0.02	-	<0.02	-	-	-
Zinc (mg/L)	May 3	<0.02	-	-	-	-	-	-
	May 5	-	-	-	-	0.022	-	-
	May 9	-	-	-	0.091	-	-	-
	May 10	-	0.034	0.037	-	-	-	-
	May 18	-	-	-	-	-	<0.02	-
	Oct 3	<0.02	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	<0.02	0.44
	Oct 10	-	-	-	-	0.11	-	-
	Oct 11	-	0.028	-	<0.02	-	-	-
Calcium (mg/L)	May 3	7.1	-	-	-	-	-	-
	May 5	-	-	-	-	9.2	-	-
	May 9	-	-	-	0.74	-	-	-
	May 10	-	13	12	-	-	-	-
	May 18	-	-	-	-	-	0.98	-
	Oct 3	7.8	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	6.2	5.8
	Oct 10	-	-	-	-	5.3	-	-
	Oct 11	-	10	-	<0.5	-	-	-
Magnesium (mg/L)	May 3	<0.5	-	-	-	-	-	-
	May 5	-	-	-	-	<0.5	-	-
	May 9	-	-	-	<0.5	-	-	-
	May 10	-	<0.5	<0.5	-	-	-	-
	May 18	-	-	-	-	-	<0.5	-
	Oct 3	<0.5	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	4.0	3.6
	Oct 10	-	-	-	-	<0.5	-	-
	Oct 11	-	<0.5	-	<0.5	-	-	-
Potassium (mg/L)	May 3	7.5	-	-	-	-	-	-
	May 5	-	-	-	-	10	-	-
	May 9	-	-	-	14	-	-	-
	May 10	-	11	11	-	-	-	-
	May 18	-	-	-	-	-	2.0	-
	Oct 3	7.8	-	-	-	-	-	-
	Oct 5	-	-	-	-	-	5.4	5.2
	Oct 10	-	-	-	-	16	-	-
	Oct 11	-	9.5	-	3.8	-	-	-

Note:
– = Sampling not required, sampling was performed for that analyte on a different date.

Table C-3. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2011 physical data.

Well	Date	Total Phosphorus (as PO4)	Total dissolved solids (TDS)	pH	Total Hardness (as CaCO3)	Total Alkalinity (as CaCO3)	Specific Conductance
B806B	May 3	<0.15	650	8.5	19	180	950
B806B	Oct 3	<0.15	730	8.5	21	200	1,100
B827A	May 10	0.52	900	8.8	33	260	1,300
B827A	May 10 DUP	0.51	910	8.8	32	260	1,300
B827A	Oct 11	0.33	830	8.7	27	210	1,000
B827C	May 9	5.5	1,000	9.9	2.1	310	1,500
B827C	Oct 11	0.26	760	8.4	1.4	220	1,100
B827D	May 5	0.44	720	8.9	24	220	1,000
B827D	Oct 10	0.99	1,000	10	15	290	1,600
B827E	May 18	<0.15	720	9.1	2.6	210	1,000
B827E	Oct 5	2.4	890	9.4	32	160	1,400
B827E	Oct 5 DUP	2.3	970	9.4	29	160	1,400

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-B827A-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	54474	
Caltest		

pH meter calibrated on: 10/3/11
Specific Conductance meter calibrated on: 10/3/11

Sample Date: 10/3/11

			Field Meas		BC Labs			Comments
Location Indentifier	Sample Time	Initials	pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000mL Poly	
3-B827A-01-OW**								B806 STARTED AT 8:15 Composite Sample Consisted of 70, 150ml Samples over a 6 hour Time Frame ≈ 9L collected
3-B827C-01-OW								
3-B827D-01-OW								
3-B827E-01-OW								
* 3-B806-01-OW	1400	KB	8.87	1045 µS	✓	✓	✓	
Duplicate of 3-B827E-01-OW								
3-B9900-OW								

☑ Copy to Analyst, Rick Blake.

☐ Copy of CoC given to TRR

Revised 03/12/11

Chain of Custody

EPD: EMAD/PRAD/ESPD
Lawrence Livermore National Laboratory
P.O. Box 808 L-629
Livermore, CA 94551

Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 54474
Document Control #: 54474
Requester/LLNL Analyst: R. Blake
Organization / Sampler: EPD / brunckhorst2
PCI Project #: 35166
PCI Task #: 1.03.02.06.02.07
Fax/Email #1: swanson15@llnl.gov
DMT Additional Copies:

Analytical Lab : BCLABS-BAK
TAT: 20d
Analytical Lab Log #:
Project/Network: MECHEQUIPMNTRMS
LLNL Acct #: 3297-47
Release #: UNICARD
Fax/Email #2:

Additional Instructions:

Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-B806B-01-OW	10/03/2011 14:00	AQ	P	1	MECHEQUIPM	S3ANIONS	ALL	
3-B806B-01-OW	10/03/2011 14:00	AQ	P	1	MECHEQUIPM	S3METALS	ALL	
3-B806B-01-OW	10/03/2011 14:00	AQ	P	0	MECHEQUIPM	S3METALS	TOTAL	
3-B806B-01-OW	10/03/2011 14:00	AQ	P	1	MECHEQUIPM	S3WETCHEM	ALL	

	Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1	[signature]	LLNL/EPD	10/3/2011	1500	2			
2					3			
3					4			
4					5			

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-B827A-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	54529	
Caltest		

pH meter calibrated on: 10/5/11

Specific Conductance meter calibrated on: 10/5/11

Sample Date: 10/5/11

			Field Meas		BC Labs			Comments
Location Indentifier	Sample Time	Initials	pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000mL Poly	
3-B827A-01-OW**								B27E Started at 7:35
3-B827C-01-OW								
3-B827D-01-OW								Composite Sample Consisted of 78, 150 ml Samples over a 6½ hour time frame
3-B827E-01-OW	1405	KB	9.58	1362 µs	✓	✓	✓	
3-B806-01-OW								Approx. 8 liters collected
Duplicate of 3-B827E-01-OW								
3-B9900-OW	11	11	11	11	✓	✓	✓	

☑ Copy to Analyst, Rick Blake.

☐ Copy of CoC given to TRR

Chain of Custody

EPD: EMAD/PRAD/ESPD
Lawrence Livermore National Laboratory
P.O. Box 808 L-629
Livermore, CA 94551

Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 54529
Document Control #: 54529
Requester/LLNL Analyst: R. Blake
Organization / Sampler: EPD / bruckhorst2
PCI Project #: 35166
PCI Task #: 1.03.02.06.02.07
Fax/Email #1: swanson15@llnl.gov
DMT Additional Copies:

Analytical Lab : BCLABS-BAK
TAT: 20d
Analytical Lab Log #:
Project/Network: MECHEQUIPMNTRMS
LLNL Acct #: 3297-47
Release #: UNICARD
Fax/Email #2:

Additional Instructions:

Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-B827E-01-OW	10/05/2011 14:05	AQ	P	1	SPECIAL	S3ANIONS	ALL	
3-B827E-01-OW	10/05/2011 14:05	AQ	P	1	SPECIAL	S3METALS	ALL	
3-B827E-01-OW	10/05/2011 14:05	AQ	P	0	SPECIAL	S3METALS	TOTAL	
3-B827E-01-OW	10/05/2011 14:05	AQ	P	1	SPECIAL	S3WETCHEM	ALL	
3-B9900-01-OW	10/05/2011 14:05	AQ	P	1	SPECIAL	S3ANIONS	ALL	
3-B9900-01-OW	10/05/2011 14:05	AQ	P	1	SPECIAL	S3METALS	ALL	
3-B9900-01-OW	10/05/2011 14:05	AQ	P	0	SPECIAL	S3METALS	TOTAL	
3-B9900-01-OW	10/05/2011 14:05	AQ	P	1	SPECIAL	S3WETCHEM	ALL	

	Relinquished Signature	Company	Date	Time		Received Signature	Company	Date	Time
1	[signature]	LLNL/EPD	10/5/2011	1530	2				
2					3				
3					4				
4					5				

Revision Printed: 09/13/2011/15/50/25

Signature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT

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-B827A-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	54570	
Caltest		

pH meter calibrated on: 10/10/11
Specific Conductance meter calibrated on: 10/10/11

Sample Date: 10/10/11

			Field Meas		BC Labs			Comments
Location Indentifier	Sample Time	Initials	pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000mL Poly	
3-B827A-01-OW**								827D Started at 7:35
3-B827C-01-OW								Composite Sample Consisted of 80, 150ml Samples Collected over a 6 1/2 hour time frame.
3-B827D-01-OW	1410	HS	10.58	1560 uS	1	1	1	Approx. 8 Liters Collected
3-B827E-01-OW								
3-B806-01-OW								
Duplicate of 3-B827E-01-OW								
3-B9900-OW								

☑ Copy to Analyst, Rick Blake.

☐ Copy of CoC given to TRR

Revised 03/12/11

Chain of Custody

EPD: EMAD/PRAD/ESPD
Lawrence Livermore National Laboratory
P.O. Box 808 L-629
Livermore, CA 94551

Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 54570
Document Control #: 54570
Requester/LLNL Analyst: R. Blake
Organization / Sampler: EPD / brunckhorst2
PCI Project #: 35166
PCI Task #: 1.03.02.06.02.07
Fax/Email #1: swanson15@llnl.gov
DMT Additional Copies:

Analytical Lab : BCLABS-BAK
TAT: 20d
Analytical Lab Log #:
Project/Network: MECHEQUIPMNTRMS
LLNL Acct #: 3297-47
Release #: UNICARD
Fax/Email #2:

Additional Instructions:

Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-B827D-01-OW	10/10/2011 14:10	AQ	P	1	SPECIAL	S3ANIONS	ALL	
3-B827D-01-OW	10/10/2011 14:10	AQ	P	1	SPECIAL	S3METALS	ALL	
3-B827D-01-OW	10/10/2011 14:10	AQ	P	0	SPECIAL	S3METALS	TOTAL	
3-B827D-01-OW	10/10/2011 14:10	AQ	P	1	SPECIAL	S3WETCHEM	ALL	

	Relinquished Signature	Company	Date	Time		Received Signature	Company	Date	Time
1		LLNL/EPD	10/10/2011	1530	2				
2					3				
3					4				
4					5				

Revision Printed: 09/13/2011/15/50/25

Signature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT

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-B827A-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	54601	
Caltest		

pH meter calibrated on: 10/11
Specific Conductance meter calibrated on: 10/11

Sample Date: 10/11/11

			Field Meas		BC Labs			Comments
Location Indentifier	Sample Time	Initials	pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000mL Poly	
3-B827A-01-OW**	1410	KS	8.42	1146 µS	✓	✓	✓	B827C Started at 7:30am. Composite Sample consisted of 80, 150ml Samples over a 6 1/2 hour time frame. Approx 5 Liters Collected 827A Started at 7:50 am Composite Sample consisted of 75, 150 ml Samples collected over a 6 1/2 hour time frame Approx 8 Liters Collected
3-B827C-01-OW	1400	KS	8.96	1105 µS	✓	✓	✓	
3-B827D-01-OW								
3-B827E-01-OW								
3-B806-01-OW								
Duplicate of 3-B827E-01-OW								
3-B9900-OW								

☑ Copy to Analyst, Rick Blake.

☐ Copy of CoC given to TRR

Revised 03/12/11

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 6/16/2011 Inspector MARK KRAUHS 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.

Check Items	Response	Description and Comments:
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 Sato Date 6/16/11

* 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 6/27/11 Inspector Aaron T. Fantes 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), Environmental Functional Area.

Check Items	Response	Description and Comments:
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 [signature] Date 6-27-11

* 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 6/27/11 Inspector Aaron T. Fontes 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.

Check Items	Response	Description and Comments:
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 Patrick J. Dallmann Date 6-27-11

* 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 6/27/11 Inspector Aaron T. Fortes 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.

Check Items	Response	Description and Comments:
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 Patrick J. Wallington Date 6.27.11

* 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 6/27/11 Inspector Aaron T. Fontes 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.

Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No (No circled)	
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No (No circled)	
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 circled)	
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 circled)	
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature [signature] Date 6.27.11

* 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 7/12/2011 Inspector MARK KRAUAS 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.

Check Items	Response	Description and Comments:
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 Bates Date 7/12/11

* 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 7/25/11 Inspector A. Fontes 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), Environmental Functional Area.

Check Items	Response	Description and Comments:
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 Patrick J. Gallagher Date 7.25.11

* 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 7/25/11 Inspector A. Fontes 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.

Check Items	Response	Description and Comments:
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 Patrick J. Gallagher Date 7-25-11

* 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 7/25/11 Inspector A. Fontes 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.

Check Items	Response	Description and Comments:
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 Patrick J. Dallaston Date 7.25.11

* 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 8/15/2011 Inspector MARK KRAUK 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.

Check Items	Response	Description and Comments:
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 Soto Date 8/15/11

* 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 8/29/11 Inspector A. Fontes 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.

Check Items	Response	Description and Comments:
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 [signature] Date 9.13.11

* 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 8/29/11 Inspector A. Fuentes 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.

Check Items	Response	Description and Comments:
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 Patrick J. Gallagher Date 9/13/11

* 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 8/29/11 Inspector A. Fontes 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.

Check Items	Response	Description and Comments:
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 Patrick J. Gallagher Date 9-13-11

* 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 8/29/11 Inspector A. Fontes 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), Environmental Functional Area.

Check Items	Response	Description and Comments:
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 [signature] Date 9-13-11

* 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 9/27/2011 Inspector MARK KRAUSE 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.

Check Items	Response	Description and Comments:
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 Bates Date 9/28/11

* 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 9/28/11 Inspector A. Fontes 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), Environmental Functional Area.

Check Items	Response	Description and Comments:
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 [signature] Date 9-28-11

* 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 9/28/11 Inspector A. Fontes 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.

Check Items	Response	Description and Comments:
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 Patrick J. Dallaghan Date 9.28.11

* 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 9/28/11 Inspector A. Fowler 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.

Check Items	Response	Description and Comments:
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 [signature] Date 9-28-11

* 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 10/18/2011 Inspector MARK Krauks 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.

Check Items	Response	Description and Comments:
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 Botts Date 10/18/11

* 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 10/31/11 Inspector Nicole Grimsley 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), Environmental Functional Area.

Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No (No circled)	
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No (No circled)	
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 circled)	
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 circled)	
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature [signature] Date 11·7·11

* 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 10/31/11 Inspector Nicole Grimsley 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.

Check Items	Response	Description and Comments:
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 Patrick J. Gallagher Date 11-7-11

* 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 10/31/11 Inspector Nicole Grimsley 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.

Check Items	Response	Description and Comments:
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 Patrick J. Dallaghan Date 11-7-11

* 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 11/7/11 Inspector Nicole Emmsley 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.

Check Items	Response	Description and Comments:
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	~0.5 ft water
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 [signature] Date 11.7.11

* 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 11/14/11 Inspector Nicole Grimsley 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.

Check Items	Response	Description and Comments:
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	About 10 inches standing water
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 [signature] Date 11·14·11

* 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 11/21/11 Inspector Nicole Grimsley Building Number 827 D

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.

Check Items	Response	Description and Comments:
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 [signature] Date 11-21-11

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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 11/21/2011 Inspector MARK KRAUSS 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.

Check Items	Response	Description and Comments:
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 Bolz Date 11/21/11

* 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 11/28/11 Inspector Aaron T. Fenks 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), Environmental Functional Area.

Check Items	Response	Description and Comments:
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 Patrick J. Gallagher Date 11-28-11

* 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 11/28/11 Inspector Aaron T. Fowles 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.

Check Items	Response	Description and Comments:
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 Patrick J. Williamson Date 11-28-11

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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 12/19/11 Inspector Aaron T. Fontes 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), Environmental Functional Area.

Check Items	Response	Description and Comments:
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 Patrick J. Gallagher Date 12-19-11

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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 12/19/11 Inspector Aaron T. Fortes 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.

Check Items	Response	Description and Comments:
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 Patrick J. Gallagher Date 12-19-11

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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 12/19/11 Inspector Aaron L. Fontes 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.

Check Items	Response	Description and Comments:
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 Patrick J. Gallagher Date 12-19-11

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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 12/20/2011 Inspector MARK KRAUK 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.

Check Items	Response	Description and Comments:
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 Bates Date 12/20/11

* 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