Environmental Functional Area
Water, Air, Monitoring & Analysis Group

LLNL-AR-411431-11-3

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

Annual/Second Semester Report 2010

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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.

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Certification

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

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List of Abbreviations and Acronyms

3CMP	samples collected at Site 300 for Compliance Monitoring Program
3EMG	samples collected at Site 300 for the 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	(or 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 2010 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 2010 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 (Section 5)

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

This annual/second semester report summarizes the 2010 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.

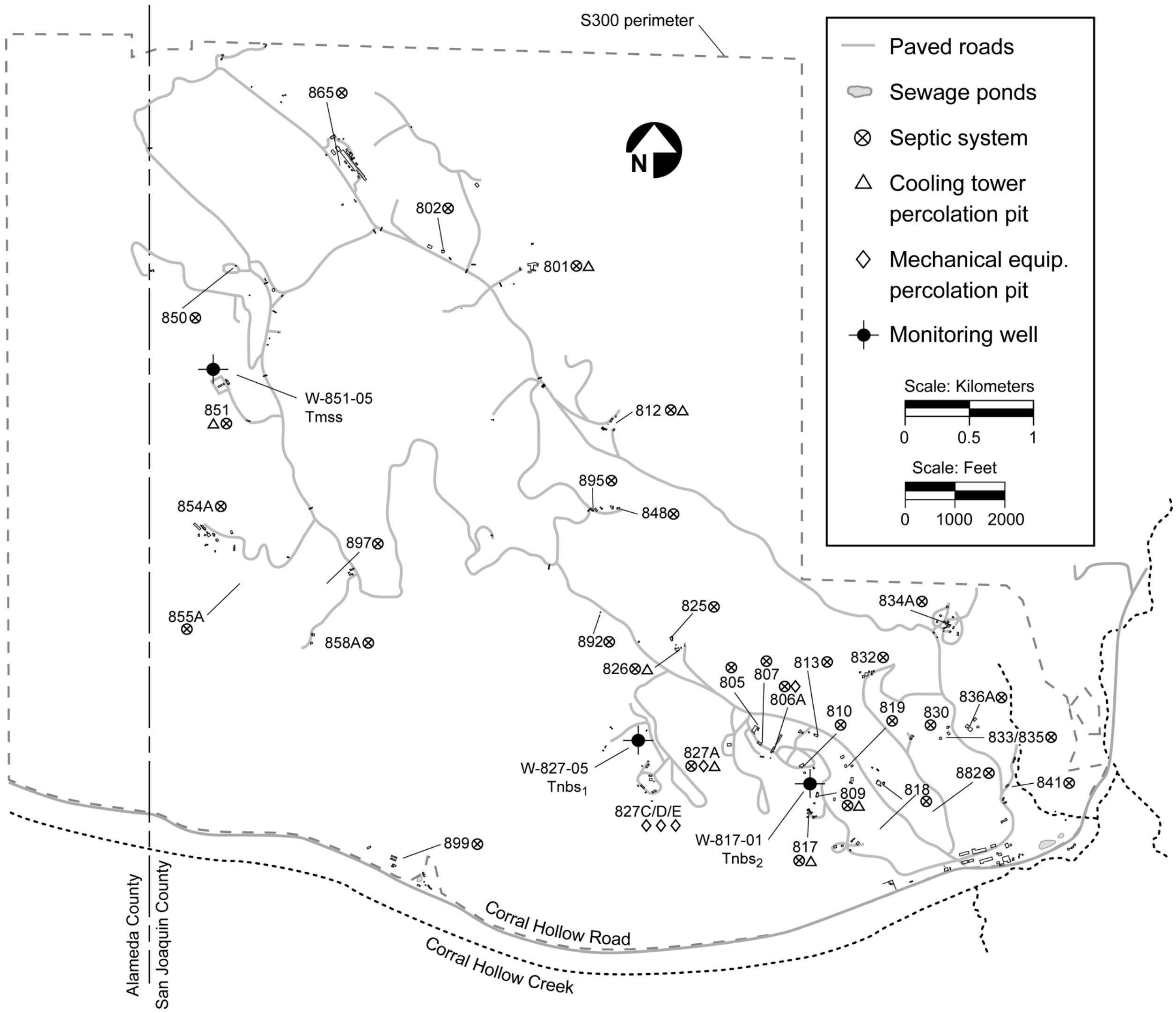

Figure 1. Locations of Site 300 facilities with septic systems and percolation pits.

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 2010.

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

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, seven discharges associated with the final pipeline flushing were reused as evaporation loss makeup water to the sewage pond.

These discharges occurred between May 7, 2010 through November 12, 2010. These activities were documented in a letter to the CVRWQCB (Schultz, December 20, 2010).

Other activities at the sewage pond this semester included the removal of algae from the pond. In consultation with the CVRWQCB on April 14, 2010 (Campbell, 2010), LLNL requested permission to remove floating algae from the evaporation pond as an odor control measure. On September 1, 2010, Roto-Rooter, Inc. was contracted to remove the algae from the sewage evaporation pond. The algae removal was successful and the LLNL Hazardous and Radioactive Waste Management (RHWM) Division managed the disposal of the sludge.

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 16, 2010. 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 (Woods, 2009).

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 2010. 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 on two occasions, from July 26-28, and from October 25 to November 1, 2010, 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, total coliform bacteria (**Table A-7**) was detected over the reporting limit in only one down gradient monitoring well, W-26R-05, with a value of (170 MPN/100mL). The well was resampled on November 30, 2010 and analyzed for total coliform with results indicating a non detect value.

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 October 18 to October 21, 2010. 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. Effluent and Pond 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 located at Building 812 was taken out of service and had no discharges during the first or second semester of 2010. 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

First semester 2010 cooling tower blow down samples were collected on May 12. 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 cooling tower blow down samples collected in May were generally consistent with data found in WDR Order No. R5-2008-0148, Attachments 19 and 20, with the following exceptions:

- Copper concentrations in samples collected ranged from 4.1 µg/L to 140 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 809 (51µg/L) and Building 851 (140 µg/L) had elevated copper values. However, the highest concentration is dropping in comparison with that from first semester 2010 (210 µg/L vs. 140 µg/L). **Table B-2** presents metals results data in units of µg/L.
- Zinc concentrations in samples collected ranged from 31 µg/L to 140 µg/L, which is greater than the concentrations of data summarized in the WDR attachments (<20 µg/L to 44 µg/L). The cooling towers at Buildings 825 (110 µg/L) and 826 (140 µg/L) were the only cooling towers showing elevated zinc in the second semester results. **Table B-2** presents metals results in units of µg/L. LLNL will continue to closely evaluate future zinc data.

Although the concentrations for copper and zinc are 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.

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

During 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.

Inspections were not conducted for the cooling towers in April due to a scheduling error. This was recognized and has been corrected. Also, the cooling towers located at Building 850 were not inspected as this facility is no longer operational and the cooling towers have been taken out of service.

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 806, 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 mechanical equipment room effluent monitoring was completed during the first semester of 2010 and the results for the first and second semesters 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 806, 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).

As reported in the first semester 2010 report, there were no samples taken from the Building 827A location due to a lack of flow. As a result, LLNL performed a dye test to determine the point of discharge from the mechanical equipment at B827A and the location of the receiving percolation pit. The results of the dye test were presented to the CVRWQCB in a letter that described the details of the tracer study (Schultz, November 12, 2010). The study indicated that the discharge for the B827A mechanical equipment was being discharged to the B827A cooling tower percolation pit instead of the mechanical equipment percolation pit. LLNL was granted permission under MRP R5-2008-0148 to sample the B827A mechanical equipment discharge at the B827A cooling tower percolation pit monitoring location based on a December 16, 2010 letter from the CVRWQCB.

Other changes to the mechanical equipment monitoring network occurred during the second semester 2010 with equipment changes at B825. As required under WDR R5-2008-0148, a Report of Waste Discharge (ROWD) was submitted to the CVRWQCB (Schultz, December 12, 2010(b)) that described the addition of a temperature-conditioning unit (a.k.a MOKON) to the mechanical equipment already discharging into the septic system at B825. In a letter response to LLNL from the CVRWQCB (Dominic, December 16, 2010), permission was granted to continue to operate the mechanical equipment and discharge under WDR R5-2008-0148 using the new MOKON unit.

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 806A, 827A, 827C, 827D, and 827E (**Appendix C, Figure C.1**). **Appendix C** contains the second semester 2010 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, no standing water was documented. If standing water is noted, then monthly inspections go to weekly inspections until no standing water is observed.

5. Status of Special Studies: Salinity Evaluation and Minimization Plan and Groundwater Modeling for Potential Impact of Salts and Nitrates to Site 300 Groundwater Beneficial Use

During 2010, WDR R5-2008-0148 required two special studies as outlined in Provisions 5 and 8 of the Permit. These include the salinity evaluation and minimization plan, and a groundwater modeling report for the evaluation of the potential impact of salts and nitrates to groundwater beneficial use from percolation pits and septic systems. The salinity evaluation and minimization plan addresses the sources of salinity in cooling tower and mechanical equipment effluent and was completed and submitted to the CVRWQCB on March 1, 2010. The plan presents the preliminary evaluation of the existing systems and serves as a baseline for developing engineering alternatives that may minimize salt from mechanical equipment waste discharges at Site 300. In addition to the salt evaluation and minimization plan, LLNL submitted a groundwater modeling study report to the CVRWQCB on November 1, 2010. This evaluation report has been reviewed by the CVRWQCB and comments are currently being addressed. This report was written for the EFA by the LLNL Environmental Restoration Department (ERD).

Information from this groundwater modeling evaluation will be used to address potential impacts to Site 300 groundwater beneficial use and serve as a guide for the implementation of continuing salt minimization plan activities, including the transition to Hetch Hetchy water targeted for February 2011.

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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, Zafer Demir, Suzie Chamberlain, and Karen Folks.

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 John Scott at Site 300 for his support in this effort.

Appendix A

Sewage Evaporation and Percolation Pond Network

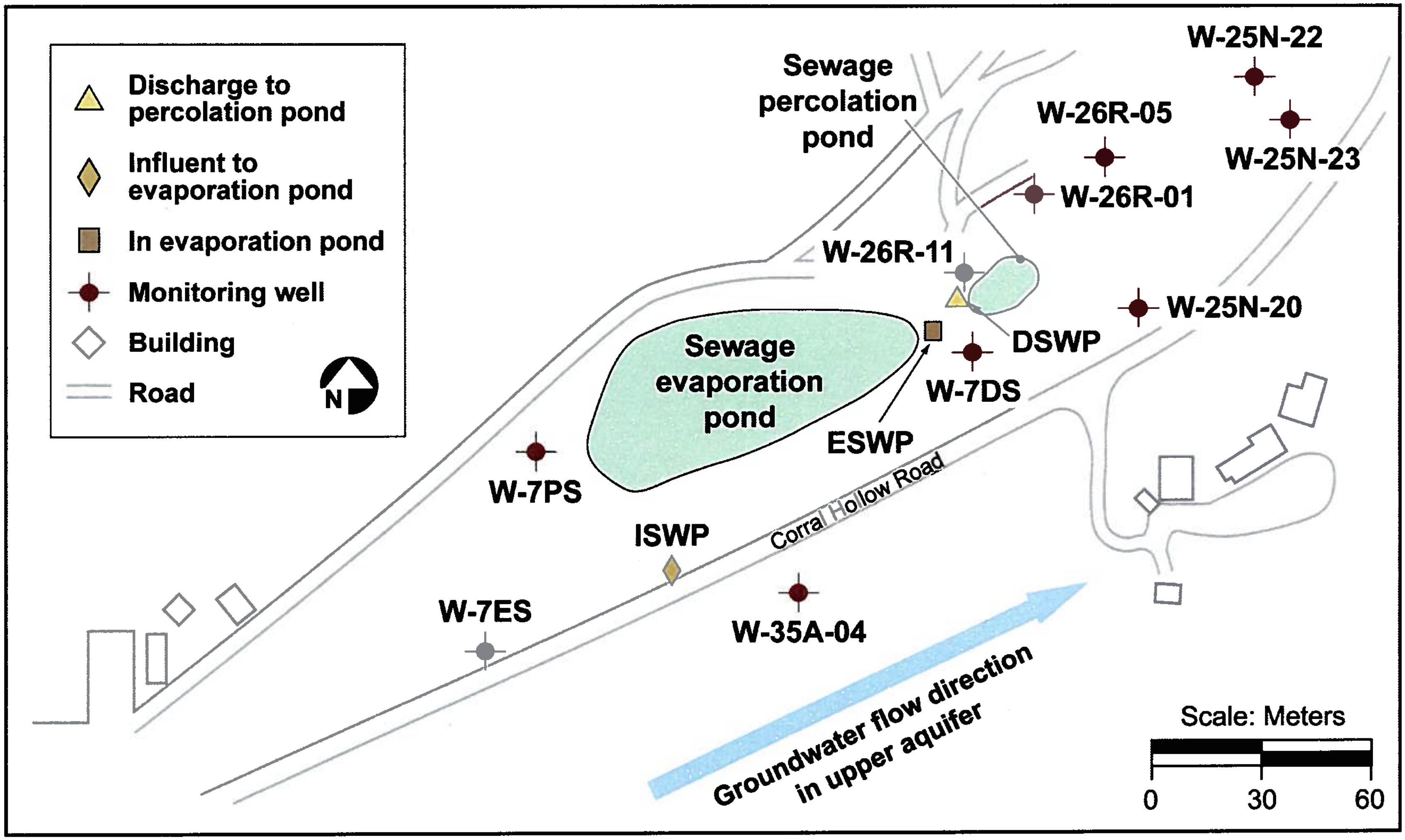

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Figure A.1. Sewer pond wastewater and ground water monitoring network.

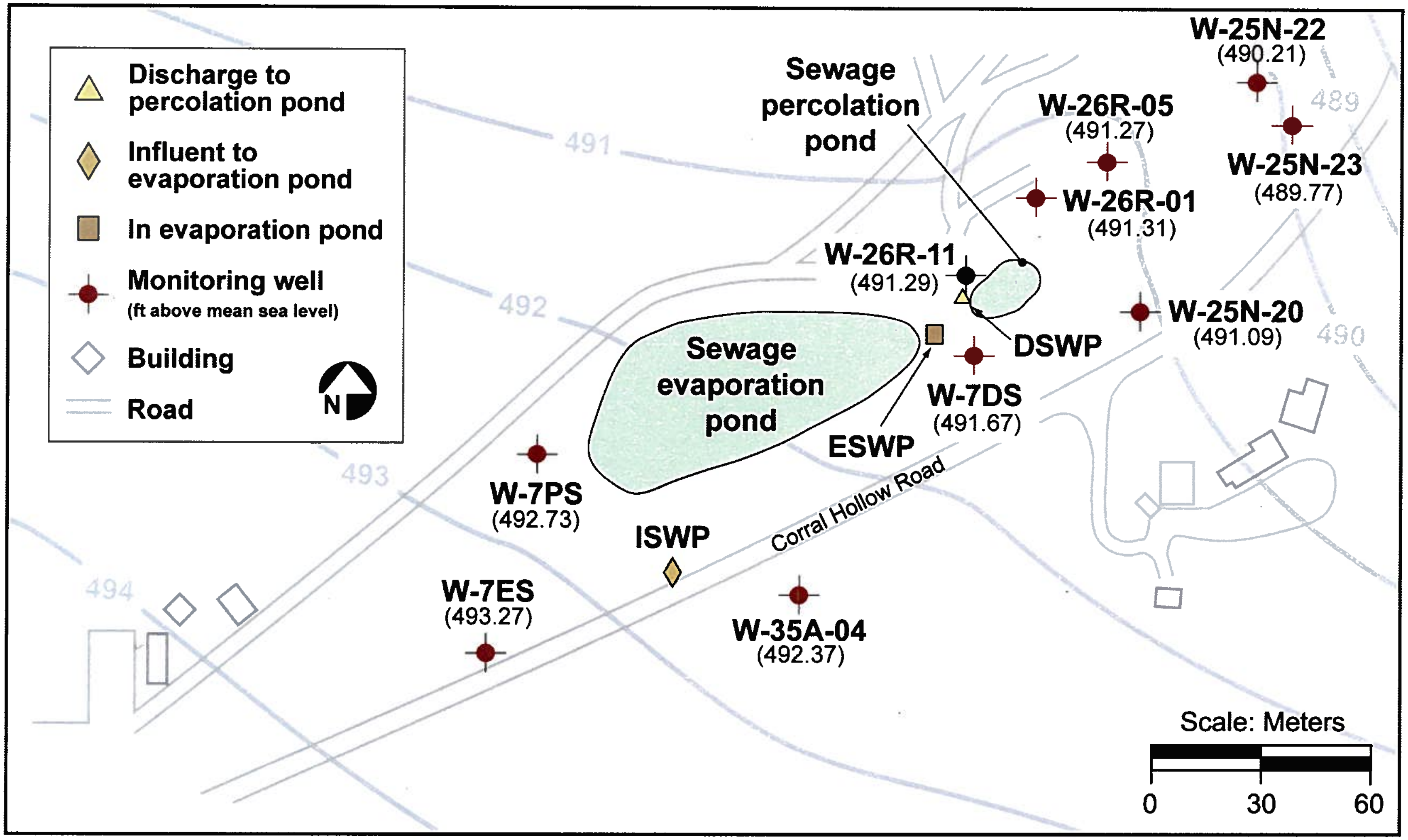

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Figure A.2. Site 300 sewer pond wastewater and effluent monitoring network with ground water elevations (ft-above mean sea level).

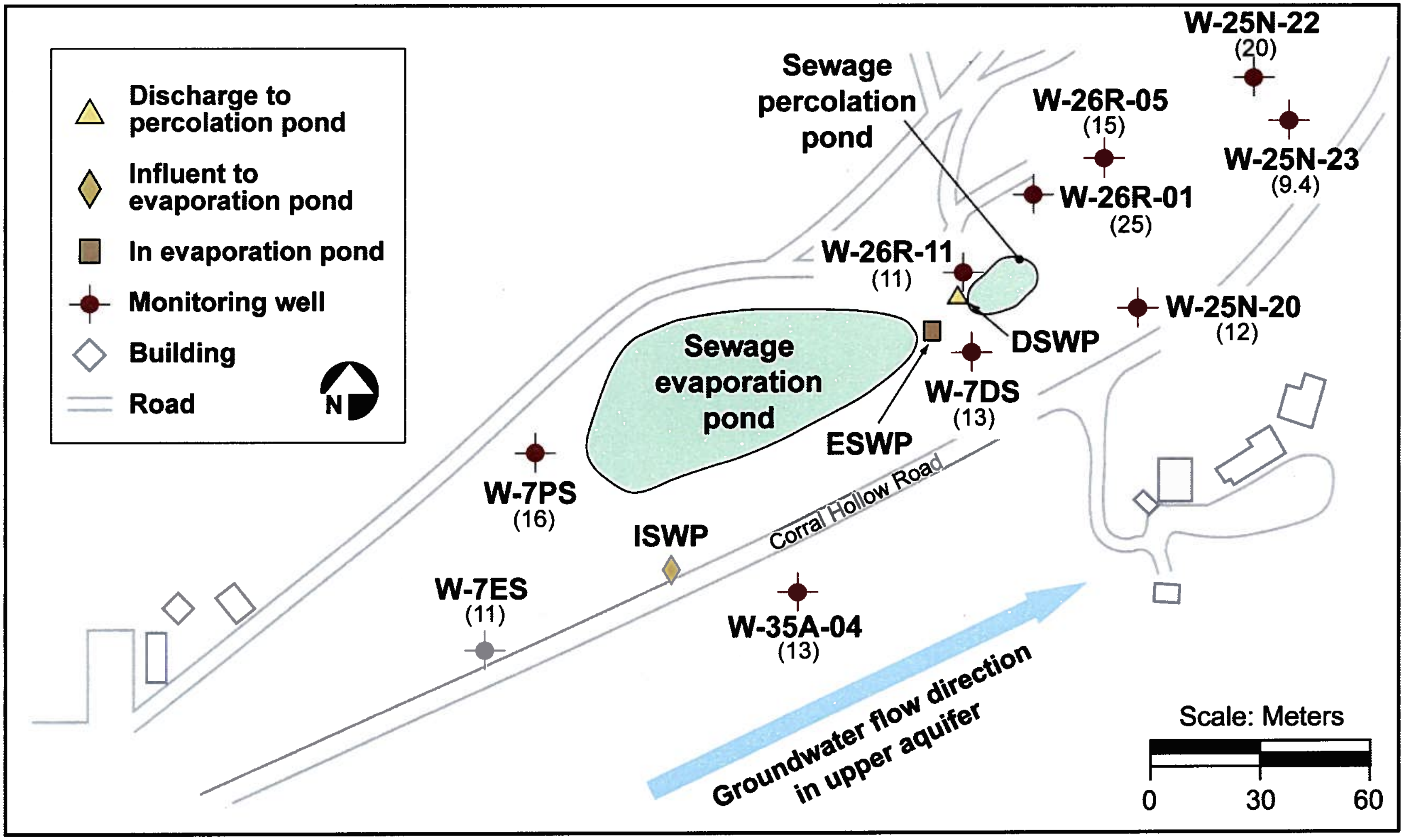

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Figure A.3. Site 300 sewer pond wastewater and effluent monitoring network with nitrate concentration (in mg/L).

Coliform and Anions for Figure A-3.

Well	Month	Fecal Coliform	Total Coliform	Sodium	Chloride	Nitrate (as NO3)	Sulfate	Fluoride
W-7ES	Feb	<2	<2	170	140	12	350	0.42
W-7ES	Apr	<2	<2	-	-	19	-	-
W-7ES	Jul	<2	<2	160	140	13	340	0.40
W-7ES	Oct	<2	<2	-	-	11	-	-
W-7PS	Feb	<2	<2	170	110	16	230	0.52
W-7PS	Apr	<2	<2	-	-	22	-	-
W-7PS	Jul	<2	<2	180	160	16	310	0.40
W-7PS	Oct	<2	<2	-	-	16	-	-
W-35A-04	Feb	<2	<2	170	150	13	360	0.45
W-35A-04	Apr	<2	<2	-	-	17	-	-
W-35A-04	Jul	<2	2.0	150	140	16	320	0.46
W-35A-04	Nov	<2	170	-	-	13	-	-
W-25N-20	Feb	<2	<2	170	140	12	340	0.42
W-25N-20	Apr	<2	<2	-	-	18	-	-
W-25N-20	Jul	<2	<2	160	140	13	320	0.36
W-25N-20	Oct	<2	<2	-	-	12	-	-
W-25N-23	Feb	<2	<2	140	120	7.6	380	0.45
W-25N-23	Jul	<2	<2	200	190	9.4	550	0.53
W-25N-22	Feb	<2	<2	170	130	8.3	480	0.47
W-25N-22	Jul	<2	<2	180	160	20	480	0.48
W-26R-01	Feb	<2	<2	170	150	20	240	0.37
W-26R-01	Apr	<2	<2	-	-	22	-	-
W-26R-01	Jul	<2	<2	200	160	20	250	0.39
W-26R-01	Oct	<2	<2	-	-	25	-	-
W-26R-05	Feb	<2	<2	150	120	9.8	230	0.56
W-26R-05	Apr	<2	2.0	-	-	24	-	-
W-26R-05	Jul	<2	<2	190	150	22	240	0.44
W-26R-05	Oct	<2	<2	-	-	15	-	-
W-26R-11	Feb	<2	<2	170	120	13	290	0.39
W-26R-11	Apr	<2	<2	-	-	19	-	-

Continued

Coliform and Anions for Figure A-3.

Well	Month	Fecal Coliform	Total Coliform	Sodium	Chloride	Nitrate (as NO3)	Sulfate	Fluoride
W-26R-11	Jul	<2	<2	170	140	14	310	0.37
W-26R-11	Oct	<2	<2	-	-	11	-	-
W-7DS	Feb	<2	<2	170	140	11	350	0.44
W-7DS	Apr	<2	<2	-	-	18	-	-
W-7DS	Jul	<2	<2	150	140	14	320	0.33
W-7DS	Oct	<2	<2	-	-	13	-	-

Concluded

Metals for Figure A-3.

Analyte (μg/L)	Month	W-7ES	W-7PS	W-35A-04	W-25N-20	W-25N-23	W-25N-22	W-26R-01	W-26R-05	W-26R-11	W-7DS
Aluminum	Feb	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	Ju l	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Arsenic	Feb	2.6	3.6	3.6	2.9	<2	6.0	9.6	9.8	2.6	2.9
	Jul	3.1	3.7	4.0	2.6	<2	<2	7.6	8.0	2.8	2.7
	Nov	-	-	3.5	-	-	-	-	-	-	-
Barium	Feb	49	47	44	44	27	31	31	31	52	49
	Jul	45	62	39	46	38	31	32	33	49	42
	Nov	-	-	47	-	-	-	-	-	-	-
Boron	Feb	2,700	2,100	2,800	2,700	1,300	1,200	1,700	1,200	2,400	2,600
	Jul	2,600	2,500	2,600	2,400	2,100	1,200	1,600	1,400	2,300	2,400
Cadmium	Feb	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	Jul	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	Nov	-	-	<0.5	-	-	-	-	-	-	-
Calcium	Feb	100,000	66,000	100,000	100,000	95,000	110,000	65,000	63,000	87,000	100,000
	Jul	110000	95000	94,000	93,000	140,000	120,000	67,000	71,000	90,000	94,000
Chromium	Feb	<1	1.2	1.1	<1	<1	<1	<1	<1	<1	<1
	Jul	<1	1.2	1.5	<1	<1	<1	<1	1.0	<1	1.1
	Nov	-	-	1.3	-	-	-	-	-	-	-
Hexavalent Chromium	Feb	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1
	Jul	<1	1.0	1.1	<1	<1	<1	<1	<1	<1	<1
Copper	Feb	<1	1.2	1.1	<1	<1	1.1	1.7	1.4	<1	<1
	Jul	<1	<1	<1	1.3	2.2	1.5	2.7	1.6	1.0	1.4
	Nov	-	-	<10	-	-	-	-	-	-	-
Iron	Feb	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Jul	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Lead	Feb	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Jul	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Nov	-	-	<2	-	-	-	-	-	-	-
Magnesium	Feb	47,000	31,000	49,000	48,000	40,000	46,000	24,000	24,000	40,000	48,000
	Jul	49,000	44,000	44,000	42,000	55,000	48,000	25,000	27,000	41,000	42,000
Manganese	Feb	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
	Jul	<30	<30	<30	<30	<30	40	<30	<30	<30	<30
Molybdenum	Feb	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	Jul	<25	<25	<25	<25	25	<25	<25	<25	<25	<25
	Nov	-	-	<25	-	-	-	-	-	-	-
Nickel	Feb	3.2	2.3	<2	2.0	<2	31	<2	<2	<2	<2
	Jul	<2	<2	<2	3.9	5.0	40	2.5	2.6	8.3	3.9
	Nov	-	-	<5	-	-	-	-	-	-	-
Potassium	Feb	5,500	5,000	5,100	4,900	9,600	12,000	9,800	9,300	5,600	5,500
	Jul	5,400	5,800	5,300	4,800	11,000	11,000	9,800	10,000	5,100	4,900
	Nov	-	-	5,800	-	-	-	-	-	-	-
Selenium	Feb	5.8	11	3.8	4.2	3.7	2.5	10	5.0	6.6	5.0
	Jul	6.2	11	5.4	5.6	8.9	5.4	11	8.9	8.1	7.1
	Nov	-	-	4.2	-	-	-	-	-	-	-
Silver	Feb	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Jul	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Nov	-	-	<0.5	-	-	-	-	-	-	-
Vanadium	Feb	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	Jul	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	Nov	-	-	<25	-	-	-	-	-	-	-
Zinc	Feb	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	Jul	<20	<20	<20	<20	22	<20	<20	<20	<20	<20

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

Note: 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 2010 ground water elevation summary.

Well	Date sampled	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-7ES	Jan 7	18.8	490.9
W-7ES	Feb 10	13.6	496.1
W-7ES	Feb 11	13.5	496.2
W-7ES	Apr 12	9.1	500.6
W-7ES	Apr 21	9.4	500.3
W-7ES	Apr 22	7.3	502.4
W-7ES	Jul 8	11.7	498.0
W-7ES	Jul 28	12.9	496.8
W-7ES	Jul 29	12.8	496.9
W-7ES	Oct 20	16.4	493.3
W-7ES	Oct 27	16.4	493.3
W-7ES	Oct 28	16.4	493.3
W-7PS	Jan 7	Dry	Dry
W-7PS	Feb 10	13.4	495.4
W-7PS	Feb 11	13.2	495.5
W-7PS	Apr 12	9.1	499.7
W-7PS	Apr 21	9.3	499.5
W-7PS	Apr 22	9.2	499.6
W-7PS	Jul 8	11.6	497.2
W-7PS	Jul 28	12.7	496.1
W-7PS	Jul 29	12.7	496.1
W-7PS	Oct 20	16.1	492.7
W-7PS	Oct 26	16.0	492.8
W-7PS	Oct 27	16.0	492.8
W-35A-04	Jan 5	14.0	490.1
W-35A-04	Feb 16	8.4	495.7
W-35A-04	Feb 17	8.4	495.6
W-35A-04	Apr 8	4.8	499.3
W-35A-04	Apr 26	4.8	499.2
W-35A-04	Apr 27	4.9	499.2
W-35A-04	Jul 7	7.0	497.1
W-35A-04	Jul 28	8.1	496.0
W-35A-04	Jul 29	8.1	496.0
W-35A-04	Oct 18	11.7	492.4
W-35A-04	Nov 1	11.7	492.3
W-35A-04	Nov 2	11.8	492.3
W-35A-04	Nov 30	12.3	491.8
W-25N-20	Jan 7	15.9	489.0
W-25N-20	Feb 8	11.6	493.3
W-25N-20	Feb 9	11.6	493.4
W-25N-20	Apr 12	7.6	497.3
W-25N-20	Apr 19	7.7	497.3
W-25N-20	Apr 20	7.7	497.2
W-25N-20	Jul 8	9.7	495.2
W-25N-20	Jul 26	10.6	494.3
W-25N-20	Jul 27	10.7	494.3

Table A-2. Site 300 sewer pond ground water monitoring network annual/second semester 2010 ground water elevation summary.

Well	Date sampled	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-25N-20	Jul 29	10.7	494.2
W-25N-20	Oct 21	13.8	491.1
W-25N-20	Oct 25	13.7	491.2
W-25N-20	Oct 26	13.8	491.2
W-25N-23	Jan 7	22.6	487.8
W-25N-23	Feb 8	18.7	491.7
W-25N-23	Feb 9	18.7	491.7
W-25N-23	Apr 12	15.0	495.4
W-25N-23	Jul 8	16.8	493.6
W-25N-23	Jul 26	17.6	492.8
W-25N-23	Jul 27	17.7	492.7
W-25N-23	Oct 21	20.6	489.8
W-25N-22	Jan 7	24.8	488.3
W-25N-22	Feb 16	21.2	491.9
W-25N-22	Feb 17	21.1	491.9
W-25N-22	Apr 12	17.7	495.3
W-25N-22	Jul 8	19.2	493.8
W-25N-22	Jul 26	20.1	492.9
W-25N-22	Jul 27	20.1	492.9
W-25N-22	Oct 21	22.9	490.2
W-26R-01	Jan 7	20.6	489.1
W-26R-01	Feb 8	16.1	493.6
W-26R-01	Feb 9	16.1	493.6
W-26R-01	Apr 12	11.9	497.8
W-26R-01	Apr 19	12.0	497.7
W-26R-01	Apr 20	12.0	497.7
W-26R-01	Jul 8	14.0	495.7
W-26R-01	Jul 26	15.0	494.7
W-26R-01	Jul 27	15.1	494.7
W-26R-01	Oct 21	18.4	491.3
W-26R-01	Oct 25	18.3	491.4
W-26R-01	Oct 26	18.3	491.4
W-26R-05	Jan 7	23.8	489.3
W-26R-05	Feb 8	19.9	493.2
W-26R-05	Feb 11	22.1	491.0
W-26R-05	Apr 12	15.7	497.4
W-26R-05	Apr 19	15.9	497.2
W-26R-05	Apr 22	15.9	497.2
W-26R-05	Jul 8	17.8	495.3
W-26R-05	Jul 26	18.8	494.3
W-26R-05	Jul 29	22.6	490.5
W-26R-05	Oct 21	21.8	491.3
W-26R-05	Oct 25	21.7	491.4
W-26R-05	Oct 28	25.3	487.8
W-26R-11	Jan 7	17.9	489.3
W-26R-11	Feb 22	12.3	494.9

Table A-2. Site 300 sewer pond ground water monitoring network annual/second semester 2010 ground water elevation summary.

Well	Date sampled	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-26R-11	Feb 23	12.2	495.0
W-26R-11	Apr 12	9.0	498.2
W-26R-11	Apr 19	9.1	498.1
W-26R-11	Apr 20	9.2	498.0
W-26R-11	Jul 8	11.3	495.9
W-26R-11	Jul 27	12.3	494.9
W-26R-11	Jul 28	12.3	494.9
W-26R-11	Oct 21	15.9	491.3
W-26R-11	Oct 25	15.6	491.6
W-26R-11	Oct 26	15.5	491.7
W-7DS	Jan 7	17.2	489.4
W-7DS	Feb 10	12.4	494.2
W-7DS	Feb 11	12.4	494.2
W-7DS	Apr 12	8.3	498.3
W-7DS	Apr 20	8.5	498.1
W-7DS	Apr 22	8.4	498.2
W-7DS	Jul 8	10.6	496.0
W-7DS	Jul 27	11.6	495.0
W-7DS	Jul 28	11.7	494.9
W-7DS	Oct 21	14.9	491.7
W-7DS	Oct 26	14.9	491.7
W-7DS	Oct 27	14.8	491.8

Table A-3. Site 300 sewer pond wastewater monitoring network annual/second semester 2010 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 22	9.6	5,050	54	4.2	24,000	30,000	1,400
3-ESWP-OW	Sep 16	9.8	791	45	6.7	500	500	2,200
3-ISWP-OW	Apr 22	8.5	1,770	130	–	–	–	–
3-ISWP-OW	Sep 16	8.5	1,980	140	–	–	–	–

Note:
(–) = Analysis not required.

Table A-4. Site 300 sewer pond wastewater monitoring network 2010 annual/second semester report metals data summary.

Analyte	Date	3-ESWP-OW (ug/L)
Aluminum	Apr 22	150
Aluminum	Sep 16	<250
Arsenic	Apr 22	<2
Arsenic	Sep 16	4.7
Barium	Apr 22	100
Barium	Sep 16	<25
Boron	Apr 22	5700
Boron	Sep 16	9200
Cadmium	Apr 22	<50
Cadmium	Sep 16	<50
Calcium	Apr 22	25000
Calcium	Sep 16	28000
Chromium	Apr 22	1.6
Chromium	Sep 16	1.4
Hexavalent Chromium	Apr 22	<1
Hexavalent Chromium	Sep 16	<1
Copper	Apr 22	5.7
Copper	Sep 16	6.0
Iron	Apr 22	400
Iron	Sep 16	<500
Lead	Apr 22	<5
Lead	Sep 16	<5
Magnesium	Apr 22	19000
Magnesium	Sep 16	20000
Manganese	Apr 22	<60
Manganese	Sep 16	<150
Molybdenum	Apr 22	<50
Molybdenum	Sep 16	<120
Nickel	Apr 22	5.4
Nickel	Sep 16	3.5
Potassium	Apr 22	74000
Potassium	Sep 16	120000
Selenium	Apr 22	<2
Selenium	Sep 16	8.5
Silver	Apr 22	<10
Silver	Sep 16	<1
Vanadium	Apr 22	<20
Vanadium	Sep 16	<20
Zinc	Apr 22	<20
Zinc	Sep 16	23

Table A-5. Site 300 sewer pond wastewater monitoring network annual/second semester 2010 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 22	Routine	9.6	5,050	54	4.2	24,000	30,000	1,400
3-ESWP-OW	Apr 22	Duplicate	-	-	-	-	30,000	30,000	-
3-ISWP-OW	Sep 16	Routine	8.5	1,980	140	-	-	-	-
3-ISWP-OW	Sep 16	Duplicate	-	-	140	-	-	-	-

Table A-6. Site 300 sewer pond ground water monitoring network annual/second semester 2010 anions data summary.

Well	Date	Sodium	Chloride	Nitrate (as NO3)	Sulfate	Fluoride
W-7ES	Feb 10	170	140	12	350	0.42
W-7ES	Apr 21	—	—	19	—	—
W-7ES	Jul 28	160	140	13	340	0.40
W-7ES	Oct 27	—	—	11	—	—
W-7PS	Feb 10	170	110	16	230	0.52
W-7PS	Apr 21	—	—	—	—	—
W-7PS	Jul 28	180	160	16	310	0.40
W-7PS	Oct 26	—	—	—	—	—
W-35A-04	Feb 16	170	150	13	360	0.45
W-35A-04	Apr 26	—	—	17	—	—
W-35A-04	Jul 28	150	140	16	320	0.46
W-35A-04	Nov 1	—	—	13	—	—
W-25N-20	Feb 8	170	140	12	340	0.42
W-25N-20	Apr 19	—	—	18	—	—
W-25N-20	Jul 26	160	140	13	320	0.36
W-25N-20	Oct 25	—	—	12	—	—
W-25N-23	Feb 8	140	120	7.6	380	0.45
W-25N-23	Jul 26	200	190	9.4	550	0.53
W-25N-22	Feb 16	170	130	8.3	480	0.47
W-25N-22	Jul 26	180	160	20	480	0.48
W-26R-01	Feb 8	170	150	20	240	0.37
W-26R-01	Apr 19	—	—	22	—	—
W-26R-01	Jul 26	200	160	20	250	0.39
W-26R-01	Oct 25	—	—	25	—	—
W-26R-05	Feb 8	150	120	9.8	230	0.56
W-26R-05	Apr 19	—	—	24	—	—
W-26R-05	Jul 26	190	150	22	240	0.44
W-26R-05	Oct 25	—	—	15	—	—
W-26R-11	Feb 22	170	120	13	290	0.39
W-26R-11	Apr 19	—	—	19	—	—
W-26R-11	Jul 27	170	140	14	310	0.37
W-26R-11	Oct 25	—	—	11	—	—
W-7DS	Feb 10	170	140	11	350	0.44
W-7DS	Apr 21	—	—	18	—	—
W-7DS	Jul 27	150	140	14	320	0.33
W-7DS	Oct 26	—	—	13	—	—

Note:
(–) = Analysis not required.

Table A-7. Site 300 sewer pond ground water monitoring network annual/second semester 2010 coliform data summary.

Well	Date	Fecal Coliform (MPN/100mL)	Total Coliform (MPN/100mL)
W-7ES	Feb 11	<2	<2
W-7ES	Apr 22	<2	<2
W-7ES	Jul 29	<2	<2
W-7ES	Oct 28	<2	<2
W-7PS	Feb 11	<2	<2
W-7PS	Apr 22	<2	<2
W-7PS	Jul 29	<2	<2
W-7PS	Oct 27	<2	<2
W-35A-04	Feb 17	<2	<2
W-35A-04	Apr 27	<2	<2
W-35A-04	Jul 29	<2	2.0
W-35A-04	Nov 2	<2	170
W-35A-04	Nov 30	<2	<2
W-25N-20	Feb 9	<2	<2
W-25N-20	Apr 20	<2	<2
W-25N-20	Jul 27	<2	<2
W-25N-20	Oct 26	<2	<2
W-25N-23	Feb 9	<2	<2
W-25N-23	Jul 27	<2	<2
W-25N-22	Feb 17	<2	<2
W-25N-22	Jul 27	<2	<2
W-26R-01	Feb 9	<2	<2
W-26R-01	Apr 20	<2	<2
W-26R-01	Jul 27	<2	<2
W-26R-01	Oct 26	<2	<2
W-26R-05	Feb 11	<2	<2
W-26R-05	Apr 22	<2	2.0
W-26R-05	Jul 29	<2	<2
W-26R-05	Oct 28	<2	<2
W-26R-11	Feb 23	<2	<2
W-26R-11	Apr 20	<2	<2
W-26R-11	Jul 28	<2	<2
W-26R-11	Oct 26	<2	<2
W-7DS	Feb 11	<2	<2
W-7DS	Apr 22	<2	<2
W-7DS	Jul 28	<2	<2
W-7DS	Oct 27	<2	<2

Table A-8. Site 300 sewer pond ground water monitoring network annual/second semester 2010 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 10	7.8	1,530	270	1,000	450	<1
W-7ES	Apr 21	7.7	1,360	–[a]	–	–	–
W-7ES	Jul 28	7.8	1,430	270	1,100	460	<1
W-7ES	Oct 27	7.8	1,530	–	–	–	–
W-7PS	Feb 10	7.7	1,260	280	820	290	<1
W-7PS	Apr 21	7.7	1,470	–	–	–	–
W-7PS	Jul 28	7.7	1,570	310	1,100	420	<1
W-7PS	Oct 26	7.7	1,590	–	–	–	–
W-35A-04	Feb 16	7.9	1,510	260	1,100	460	<1
W-35A-04	Apr 26	7.8	1,290	–	–	–	–
W-35A-04	Jul 28	7.7	1,430	260	1,000	420	<1
W-35A-04	Nov 1	7.8	1,520	–	–	–	–
W-25N-20	Feb 8	7.7	1,460	260	1,000	450	0.20
W-25N-20	Apr 19	7.6	962	–	–	–	–
W-25N-20	Jul 26	7.6	1,410	270	950	410	<1
W-25N-20	Oct 25	7.6	1,480	–	–	–	–
W-25N-23	Feb 8	7.5	1,350	190	970	400	0.20
W-25N-23	Jul 26	7.4	1,880	260	1,500	570	<1
W-25N-22	Feb 16	7.8	1,540	190	1,200	470	<1
W-25N-22	Jul 26	7.6	1,640	190	1,300	490	<1
W-26R-01	Feb 8	7.8	1,360	230	920	260	0.18
W-26R-01	Apr 19	7.5	1,370	–	–	–	–
W-26R-01	Jul 26	7.8	1,400	260	970	270	<1
W-26R-01	Oct 25	7.8	1,400	–	–	–	–
W-26R-05	Feb 8	8.0	1,170	220	790	250	0.53
W-26R-05	Apr 19	7.5	1,330	–	–	–	–
W-26R-05	Jul 26	7.9	1,310	240	920	290	<1
W-26R-05	Oct 25	8.0	1,280	–	–	–	–
W-26R-11	Feb 22	7.8	1,390	270	940	380	<1
W-26R-11	Apr 19	7.1	1,360	–	–	–	–
W-26R-11	Jul 27	7.6	1,470	280	1,000	390	<1
W-26R-11	Oct 25	7.7	1,520	–	–	–	–
W-7DS	Feb 10	7.7	1,510	270	1,000	450	1.1
W-7DS	Apr 21	7.6	1,280	–	–	–	–
W-7DS	Jul 27	7.6	1,400	270	990	410	<1
W-7DS	Oct 26	7.8	1,500	–	–	–	–

Note:
(–) = Analysis not required.

Table A-9. Site 300 sewer pond ground water monitoring network annual/second semester 2010 metals data summary.

Analyte (μg/L)	Date	W-7ES	W-7PS	W-35A-04	W-25N-20	W-25N-23	W-25N-22	W-26R-01	W-26R-05	W-26R-11	W-7DS
Aluminum	Feb	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	Jul	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Arsenic	Feb	2.6	3.6	3.6	2.9	<2	6.0	9.6	9.8	2.6	2.9
	Jul	3.1	3.7	4.0	2.6	<2	<2	7.6	8.0	2.8	2.7
	Nov	–	–	3.5	–	–	–	–	–	–	–
Barium	Feb	49	47	44	44	27	31	31	31	52	49
	Jul	45	62	39	46	38	31	32	33	49	42
	Nov	–	–	–	–	–	–	–	–	–	–
Boron	Feb	2,700	2,100	2,800	2,700	1,300	1,200	1,700	1,200	2,400	2600
	Jul	2,600	2,500	2,600	2,400	2,100	1,200	1,600	1,400	2,300	2400
Cadmium	Feb	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	Jul	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	Nov	–	–	<0.5	–	–	–	–	–	–	–
Calcium	Feb	100,000	66,000	100,000	100,000	95,000	110,000	65,000	63,000	87,000	100,000
	Jul	110,000	95,000	94,000	93,000	140,000	120,000	67,000	71,000	90,000	94,000
Chromium	Feb	<1	1.2	1.1	<1	<1	<1	<1	<1	<1	<1
	Jul	<1	1.2	1.5	<1	<1	<1	<1	1.0	<1	1.1
	Nov	–	–	1.3	-	-	-	-	-	-	-
Chromium (VI)	Feb	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1
	Jul	<1	1.0	1.1	<1	<1	<1	<1	<1	<1	<1
Copper	Feb	<1	1.2	1.1	<1	<1	1.1	1.7	1.4	<1	<1
	Jul	<1	<1	<1	1.3	2.2	1.5	2.7	1.6	1.0	1.4
	Nov	–	–	–	–	–	–	–	–	–	–
Iron	Feb	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Jul	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Lead	Feb	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Jul	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Nov	–	–	–	–	–	–	–	–	–	–
Magnesium	Feb	47,000	31,000	49,000	48,000	40,000	46,000	24,000	24,000	40,000	48,000
	Jul	49,000	44,000	44,000	42,000	55,000	48,000	25,000	27,000	41,000	42,000
Manganese	Feb	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
	Jul	<30	<30	<30	<30	<30	40	<30	<30	<30	<30
Molybdenum	Feb	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	Jul	<25	<25	<25	<25	25	<25	<25	<25	<25	<25
	Nov	–	–	<25	–	–	–	–	–	–	–

Table A-9. Site 300 sewer pond ground water monitoring network annual/second semester 2010 metals data summary.

Analyte (μg/L)	Date	W-7ES	W-7PS	W-35A-04	W-25N-20	W-25N-23	W-25N-22	W-26R-01	W-26R-05	W-26R-11	W-7DS
Nickel	Feb	3.2	2.3	<2	2.0	<2	31	<2	<2	<2	<2
	Jul	<2	<2	<2	3.9	5.0	40	2.5	2.6	8.3	3.9
	Nov	–	–	–	–	–	–	–	–	–	–
Potassium	Feb	5,500	5,000	5,100	4,900	9,600	12,000	9,800	9,300	5,600	5,500
	Jul	5,400	5,800	5,300	4,800	1,1000	11,000	9,800	10,000	5,100	4,900
	Nov	–	–	5800	–	–	–	–	–	–	–
Selenium	Feb	5.8	11	3.8	4.2	3.7	2.5	10	5.0	6.6	5.0
	Jul	6.2	11	5.4	5.6	8.9	5.4	11	8.9	8.1	7.1
	Nov	–	–	4.2	–	–	–	–	–	–	–
Vanadium	Feb	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	Jul	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	Nov	–	–	–	–	–	–	–	–	–	–
Silver	Feb	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Jul	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Nov	–	–	<0.5	–	–	–	–	–	–	–
Zinc	Feb	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	Jul	<20	<20	<20	<20	22	<20	<20	<20	<20	<20
	Nov	–	–	<20	–	–	–	–	–	–	–

Note:
(–) = Analysis not required.

Table A-10. Site 300 sewer pond ground water monitoring network 2010 annual/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
		Oct 26	Oct 26	Oct 27	Oct 27	Oct 25	Oct 25	Oct 26	Oct 26
		Routine	Duplicate	Routine	Duplicate	Routine	Duplicate	Routine	Duplicate
pH	Units	7.7	7.7	–	–	7.8	7.8	–	–
Specific Conductance	μmhos/cm	1,590	1,580	–	–	1,400	1,400	–	–
Fecal Coliform	MPN/100mL	–	–	<2	<2	–	–	<2	<2
Total Coliform	MPN/100mL	–	–	<2	<2	–	–	<2	<2
Nitrate (as NO3)	mg/L	16	16	–	–	25	25	–	–

Note:
(–) = Analysis not required.

FIELD TRACKING FORM

INFLUENT TO SITE 300 SEWAGE POND

Lab	**FGL**
CoC #	50216
Ship It #	HAND CARRY

DATE: 9/16/10 **TIME:** 0930

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

Location	**Field Measurements** pH	COND	DO (PPM)	Temp (°C)	**Comments**	**Initials**	**Samples for Lab Analysis** Analytical Codes:
3-ISWP-01-OW (Influent to Sewage Pond)	8.31	1885 µs	3.02	29.2		KB	**E120.1A & E150.1A** (Conductivity/pH) (2 X 250-mL poly) 2
3-WSWP-01-OW *duplicate of* 3-ISWP-01-OW					WSWP DUP OF SM5210B-A	KB	**SM5210B-A** (BOD) (1 X 500-mL poly) 1 + DUP

2Q2010 Duplicate See ~~ESWP Field~~ Tracking Form
4Q2010 Duplicate SM5210B-A

☑ Copy to Analyst, Allen Grayson

☑ Copy of CoC given to TRR

Revised 3/23/10

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 #: 50216
Document Control #: 50216
Requester/LLNL Analyst: A. Grayson
Organization / Sampler: EPD / brunckhorst2
PCI Project #: 32424
PCI Task #: 1.3.2.2.5.6
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	09/16/2010 09:45	SW	P	2	WDR	E120.1A	ALL	
3-ESWP-01-OW	09/16/2010 09:45	SW	P	1	WDR	E150.1A	ALL	
3-ESWP-01-OW	09/16/2010 09:45	SW	G	1	WDR	E360.1	ALL	
3-ESWP-01-OW	09/16/2010 09:45	SW	PO	1	WDR	SM5210B-A	ALL	
3-ESWP-01-OW	09/16/2010 09:45	SW	P	1	WDR	SM9221	ALL	Use 20 or more tubes: OK if bubbles are present
3-ISWP-01-OW	09/16/2010 09:30	SW	P	2	WDR	E120.1A	ALL	
3-ISWP-01-OW	09/16/2010 09:30	SW	P	1	WDR	E150.1A	ALL	
3-ISWP-01-OW	09/16/2010 09:30	SW	PO	1	WDR	SM5210B-A	ALL	
3-WSWP-01-OW	09/16/2010 09:30	SW	PO	1	WDR	SM5210B-A	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 [signature]	LLNL/EPD	9/16/10	1045	2 [signature]	FGL	9/16/10	1045
2				3			
3				4			
4				5			

Revision Printed: 02/05/2010/15/45/02

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 #: 50215
Document Control #: 50215
Requester/LLNL Analyst: A. Grayson
Organization / Sampler: EPD / brunckhorst2
PCI Project #: 32424
PCI Task #: 1.3.2.2.5.6
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	09/16/2010 09:45	SW	P	1	WDR	S3METALS	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 [illegible]	LLNL/EPD	9/16/10	13:45	2			
2				3 [illegible]	BCL	[illegible]	[illegible]
3				4			
4				5			

Revision Printed: 02/05/2010/15/45/02 Signature Order - 1: Sampler, 2: Courier, 3: Lab, 4: Analyst, 5: DMT

FIELD TRACKING FORM

EAST END OF SITE 300 SEWAGE POND

Lab	FGL	BC
CoC #	50216	50215
Ship It #	HAND CARRY	

DATE: 9/16/10 **TIME:** 0945

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)	9.62	8.16 mS	1 ft	7.29	19.0		KGS	**FGLAB** **E360.1** *DO (1x500-mL glass, NO head space)* 1 **E120.1A & E150.1A** *Conductivity/pH (2x250-mL poly)* 2
3-WSWP-01-OW *duplicate of* 3-ESWP-01-OW								**SM9221** *Total, Fecal Coliform (1x250mL) 6hr hold* 1 **SM5210B-A** *BOD (1x500mL poly)* 1 **BC Labs** **S3METALS** *(1X500mL Poly)* 1

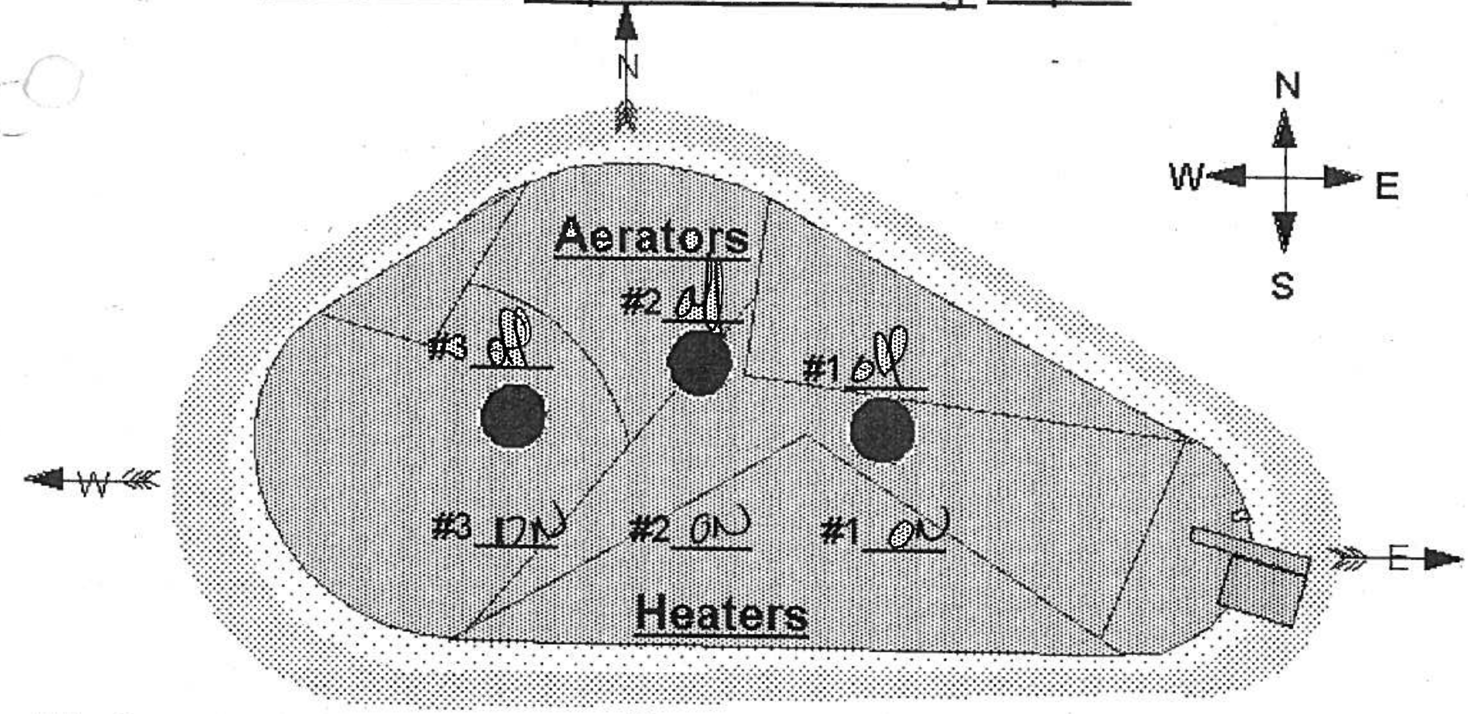
2Q2010 Duplicate **SM9221**
4Q2010 Duplicate **See ISWP Field Tracking Form**

☑ Copy to Analyst, Allen Grayson

☑ Copy of CoC given to TRR

Revised 3/23/10

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 29.2
Oxygen 12
pH 9.56
Time 1300

Water Level -3
Water Meter-Stop____
Water Meter-Start 6621717

Water Added____
Air Temp. 36.7.
Wind Direction E to W

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR----/ NONE

East-

Water Temp 27.4
Oxygen 12
pH 9.51
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

Dave Annino
Inspected by

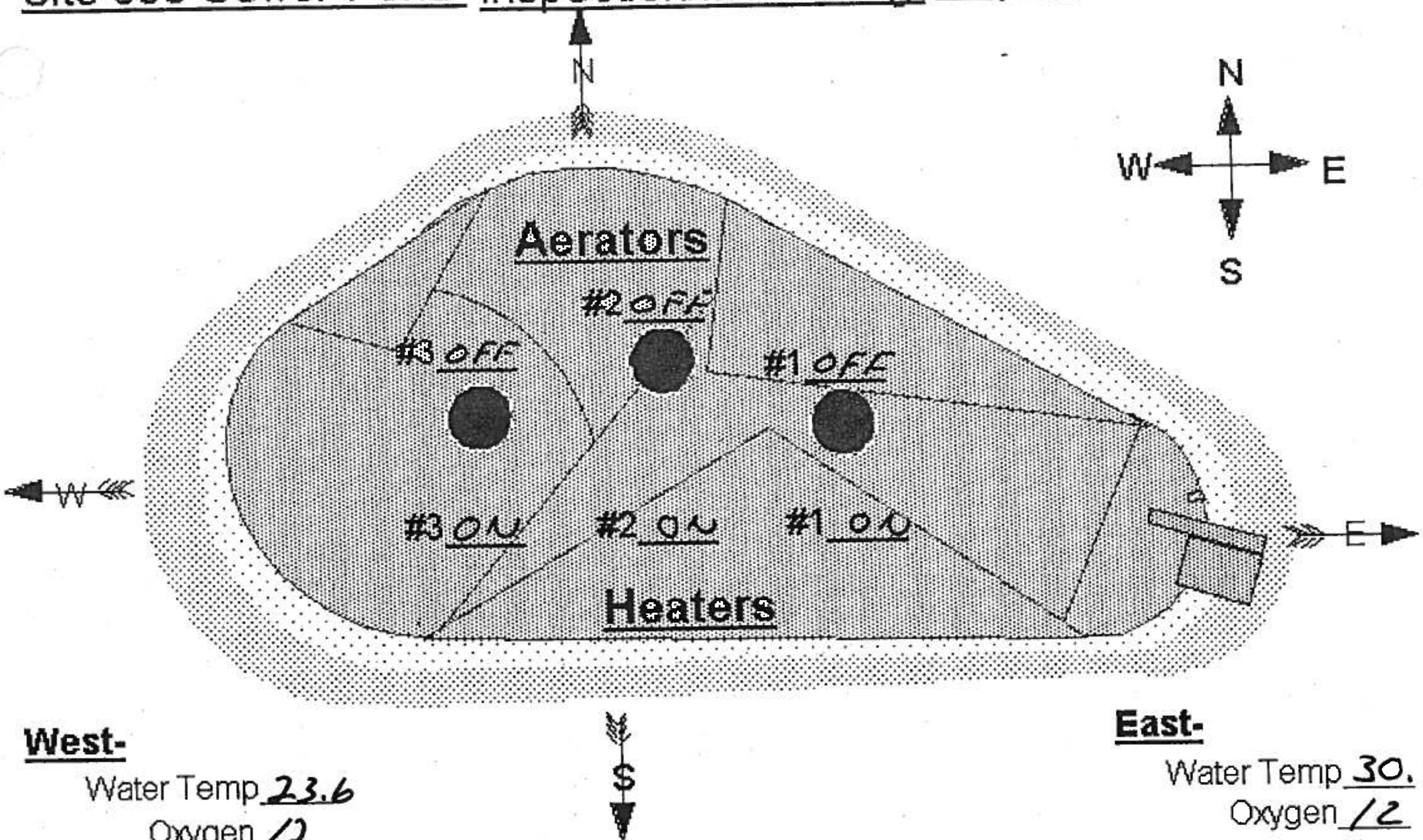
7-5-10
Date

Dave Annino
Supervisor Review

7-5-10
Date

Comments____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 23.6
Oxygen 12
pH 9.91
Time 1300

Water Level -4 1/4"
Water Meter-Stop 6638056
Water Meter-Start 6632828

Water Added 5228
Air Temp. 31.7
Wind Direction W-E

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- SLIGHT

East-

Water Temp 30.1
Oxygen 12
pH 10.04
Time 1330

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

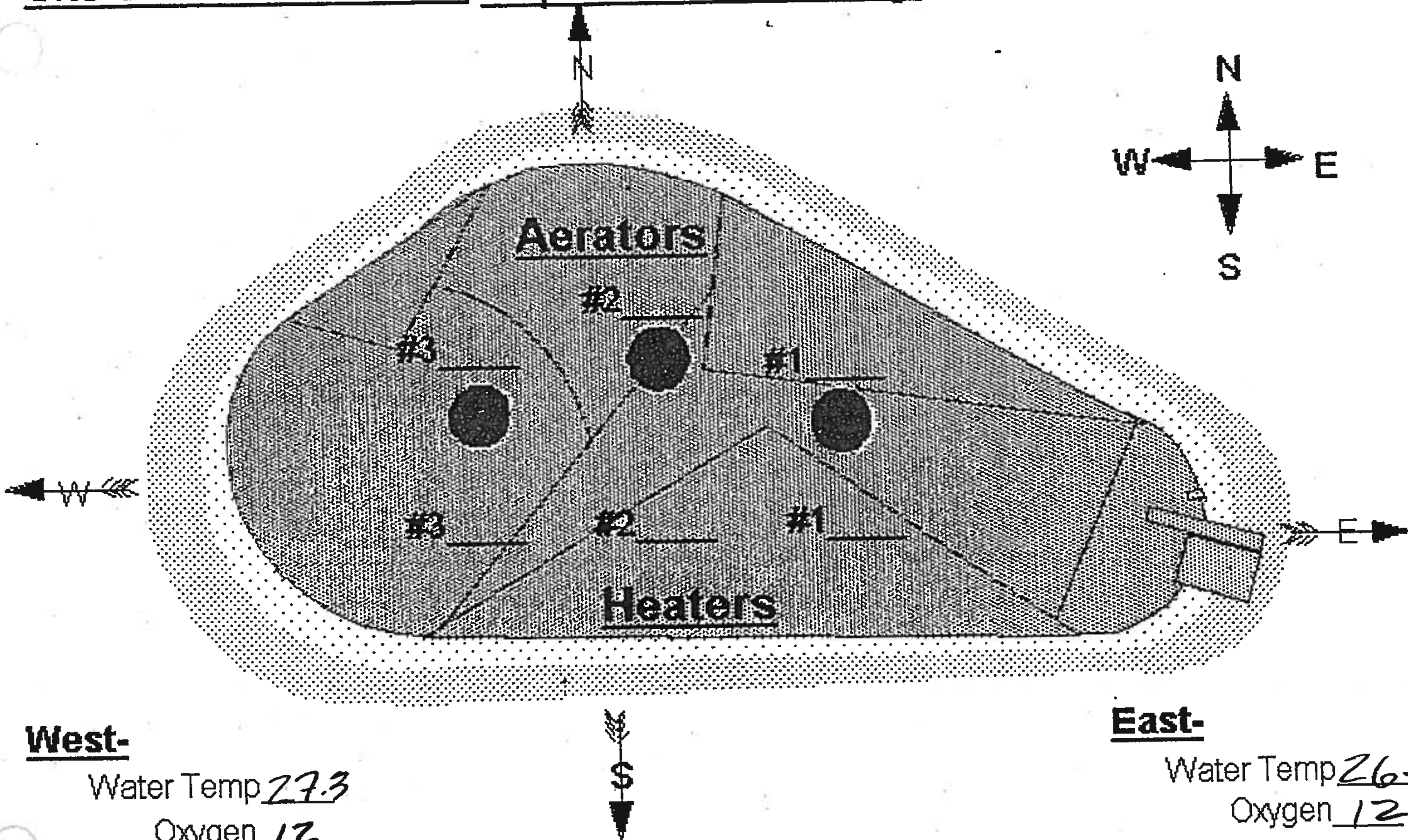
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by [signature] **Date** 7-8-10

Supervisor Review [signature] **Date** 7-8-10

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 27.3
Oxygen 12
pH 9.10
Time 1330

Water Level -4 1/4"
Water Meter-Stop 6676514
Water Meter-Start 6658056

Water Added 18458
Air Temp 37.8
Wind Direction W to E

COLOR---

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR--- Slight.

East-

Water Temp 26.4
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

Dave Ammons
Inspected by

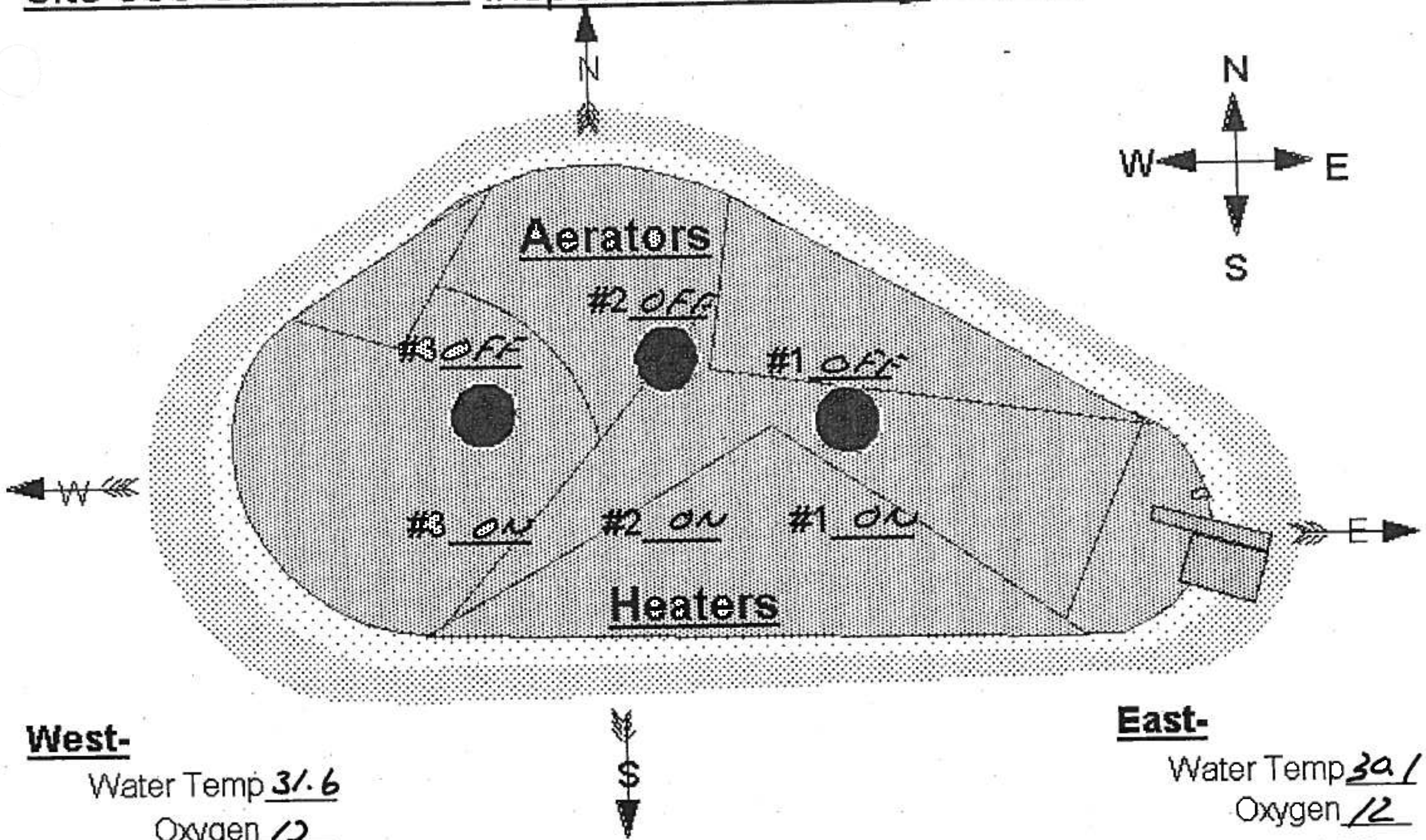
7-12-10
Date

Dave Ammons
Supervisor Review

7-12-10
Date

Comments____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 31.6

Oxygen 12

pH 10.23

Time 1300

East-

Water Temp 30.1

Oxygen 12

pH 10.28

Time 1330

Water Level -4½"

Water Meter-Stop 6676514

Water Meter-Start 6638056

Water Added 38,458

Air Temp. 37.8

Wind Direction E-W

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

[signature]
Inspected by

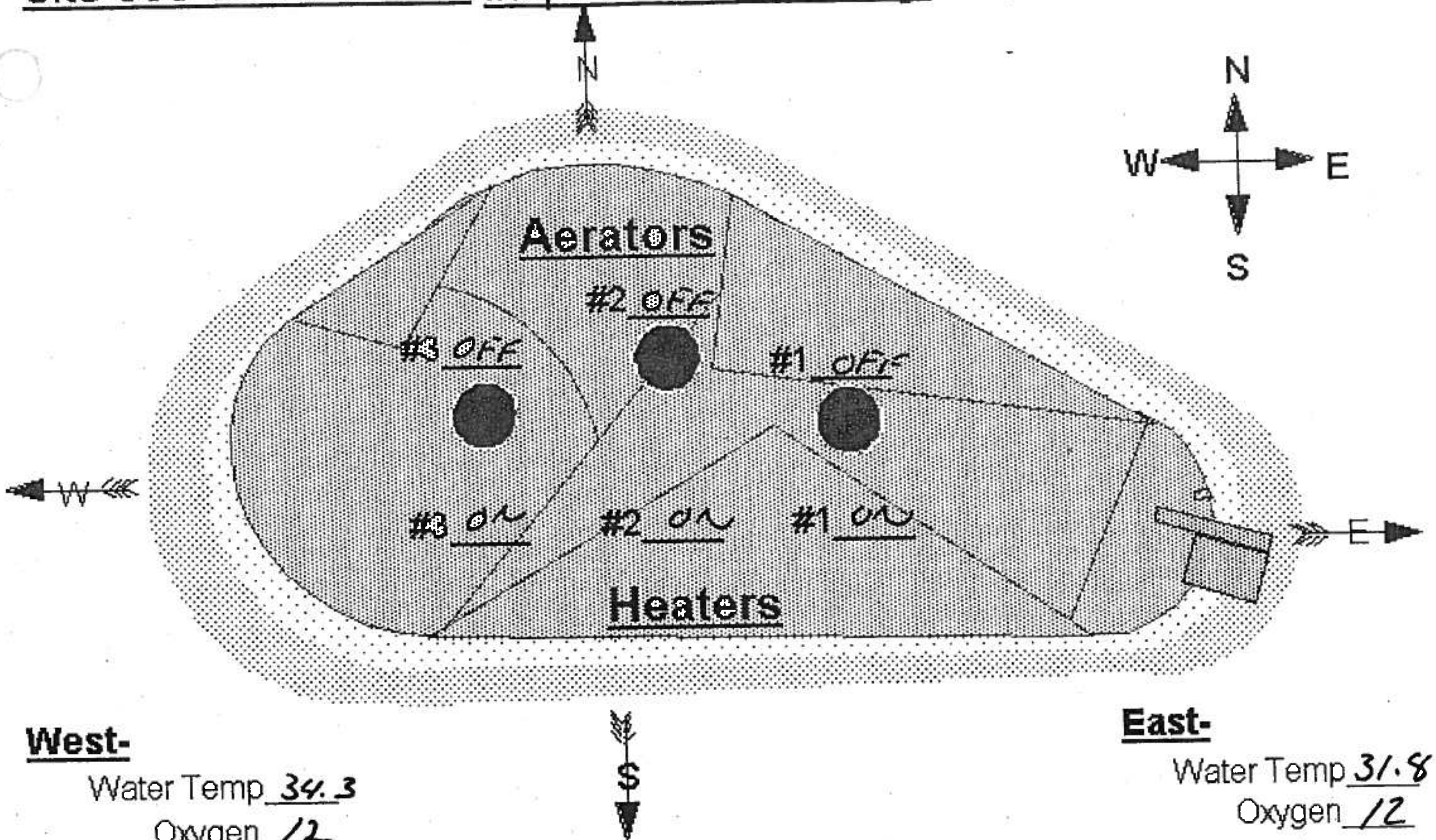
7-15-10
Date

[signature]
Supervisor Review

7-15-10
Date

Comments________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 34.3
Oxygen 12
pH 10.30
Time 1300

East-

Water Temp 31.8
Oxygen 12
pH 10.23
Time 1330

Water Level -4 1/4"
Water Meter-Stop 6702582
Water Meter-Start 6676514

Water Added 26,468
Air Temp. 32.8
Wind Direction E-W

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

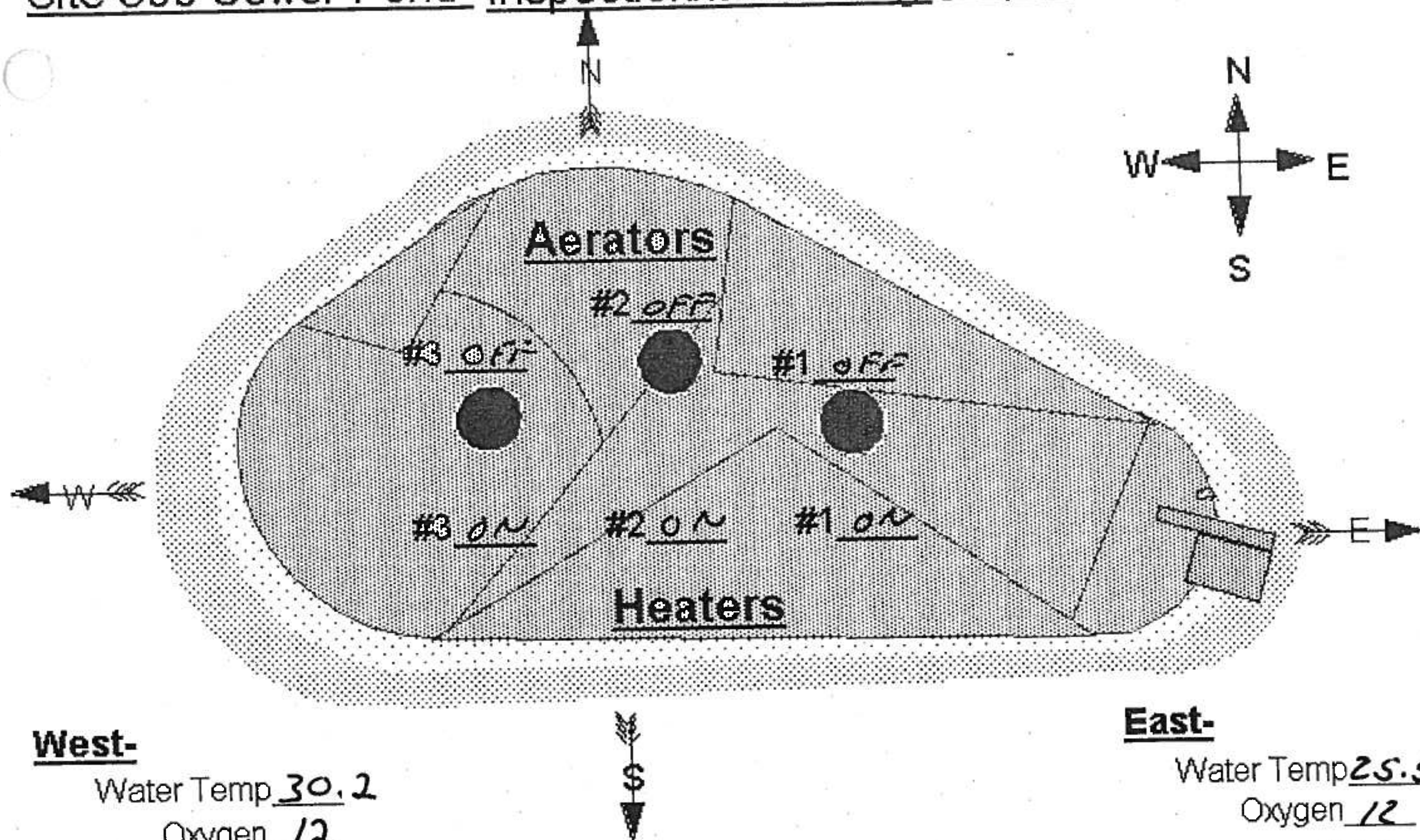
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

[signature]
Inspected by
7-20-10
Date

Dave Amoeno
Supervisor Review
7-20-10
Date

Comments____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 30.2
Oxygen 12
pH 10.29
Time 1300

East-

Water Temp 25.5
Oxygen 12
pH 10.17
Time 1330

Water Level -4¼"
Water Meter-Stop 6713807
Water Meter-Start 6702982

Water Added 10,825
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 SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

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

[signature]
Inspected by

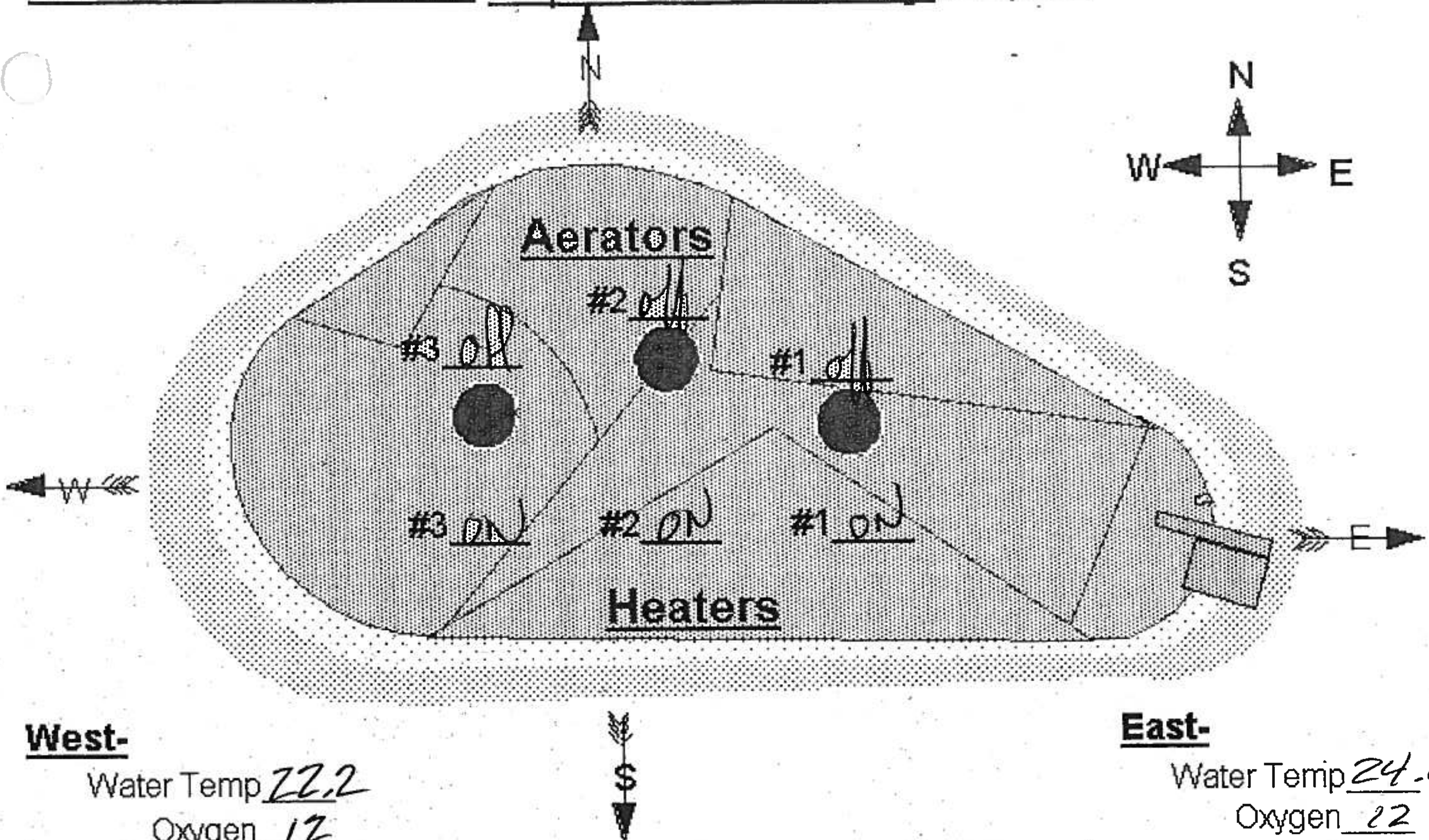
7-22-10
Date

[signature]
Supervisor Review

7-22-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 22.2
Oxygen 12
pH 9.45
Time 1300

Water Level -4 1/2
Water Meter-Stop 6734994
Water Meter-Start 6713807

Water Added 21187
Air Temp. 26.7 C
Wind Direction W to E

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- Some

East-

Water Temp 24.8
Oxygen 22
pH 9.44
Time 1300

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

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

Dave Amaro
Inspected by

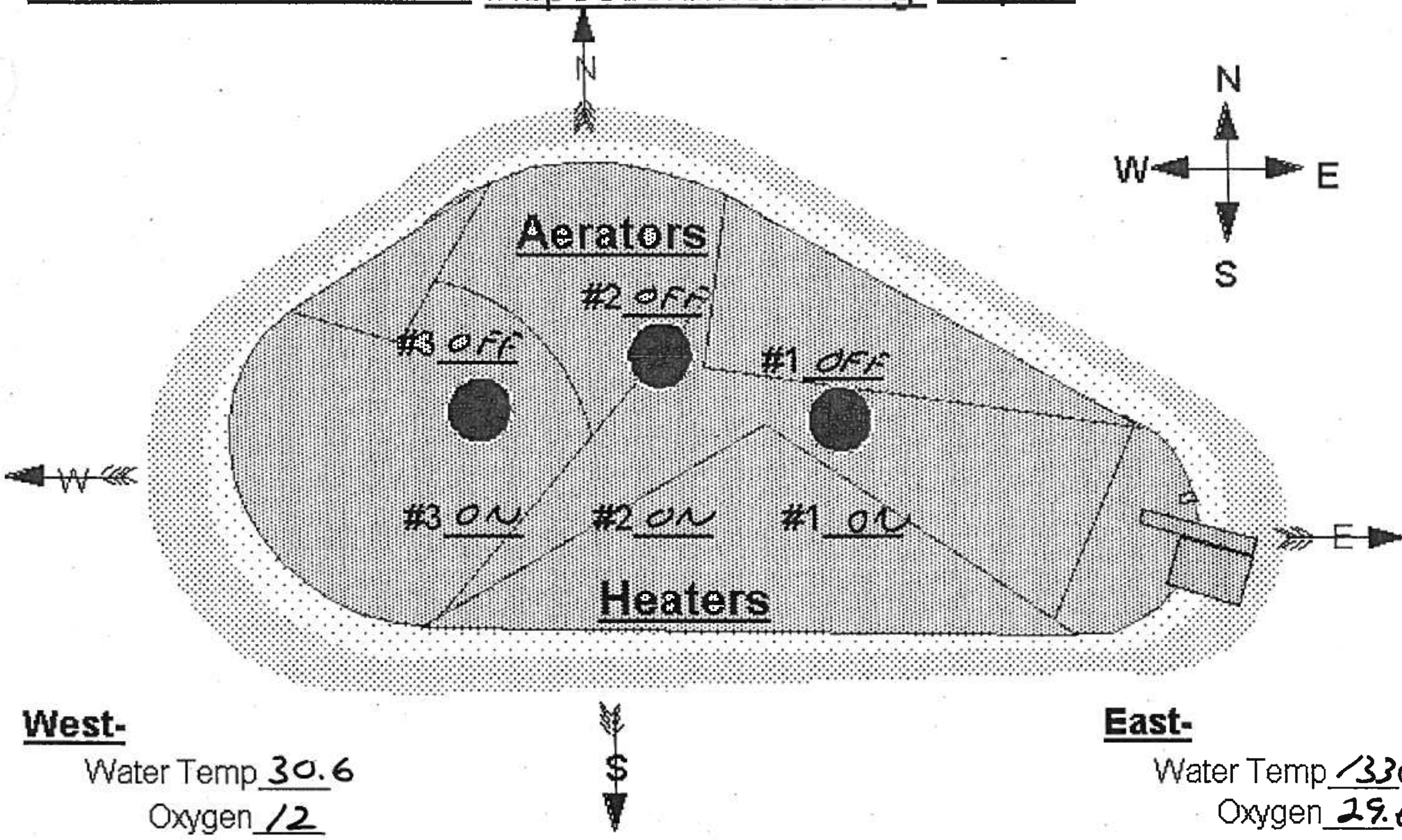
7-26-10
Date

Dave Amaro
Supervisor Review

7-26-10
Date

Comments ____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 30.6
Oxygen 12
pH 9.28
Time 1300

Water Level -3½"
Water Meter-Stop 6763763
Water Meter-Start 6734994

Water Added 28,769
Air Temp. 34.4
Wind Direction E-W

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- SLIGHT

East-

Water Temp 133C
Oxygen 29.6
pH 9.21
Time 1330

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

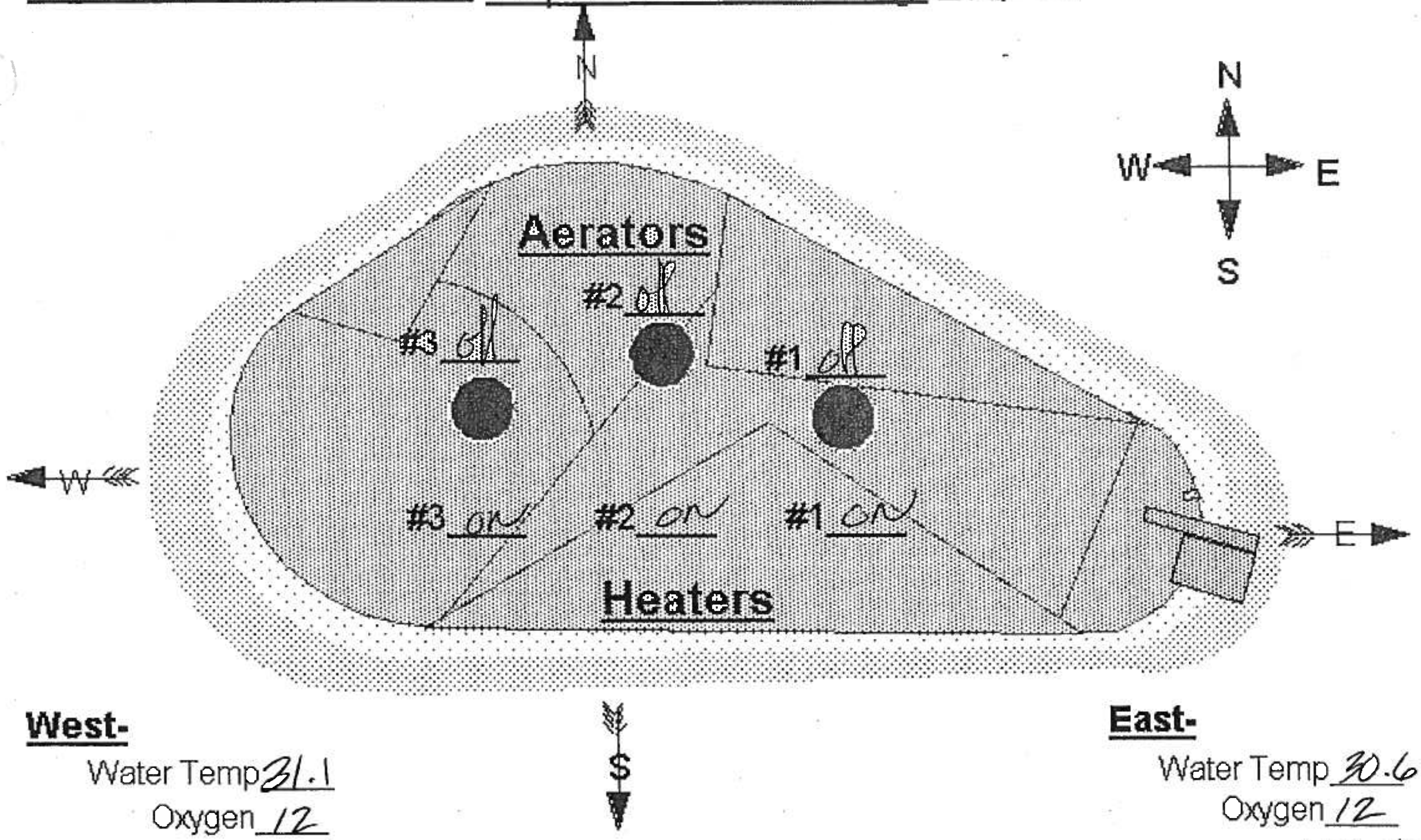
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

[signature]
Inspected by
7-29-10
Date

[signature]
Supervisor Review
7-29-10
Date

Comments ______________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 31.1
Oxygen 12
pH 9.46
Time 1330

Water Level -3 3/4
Water Meter-Stop 6796223
Water Meter-Start 6763763

Water Added 32,460
Air Temp. 31.1
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----/ some

East-

Water Temp 30.6
Oxygen 12
pH 9.40
Time 1330

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

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

Water Level- No flow.
Erosion Some
Animal Burrows Some
Weed Control Some

Dan Arnold
Inspected by

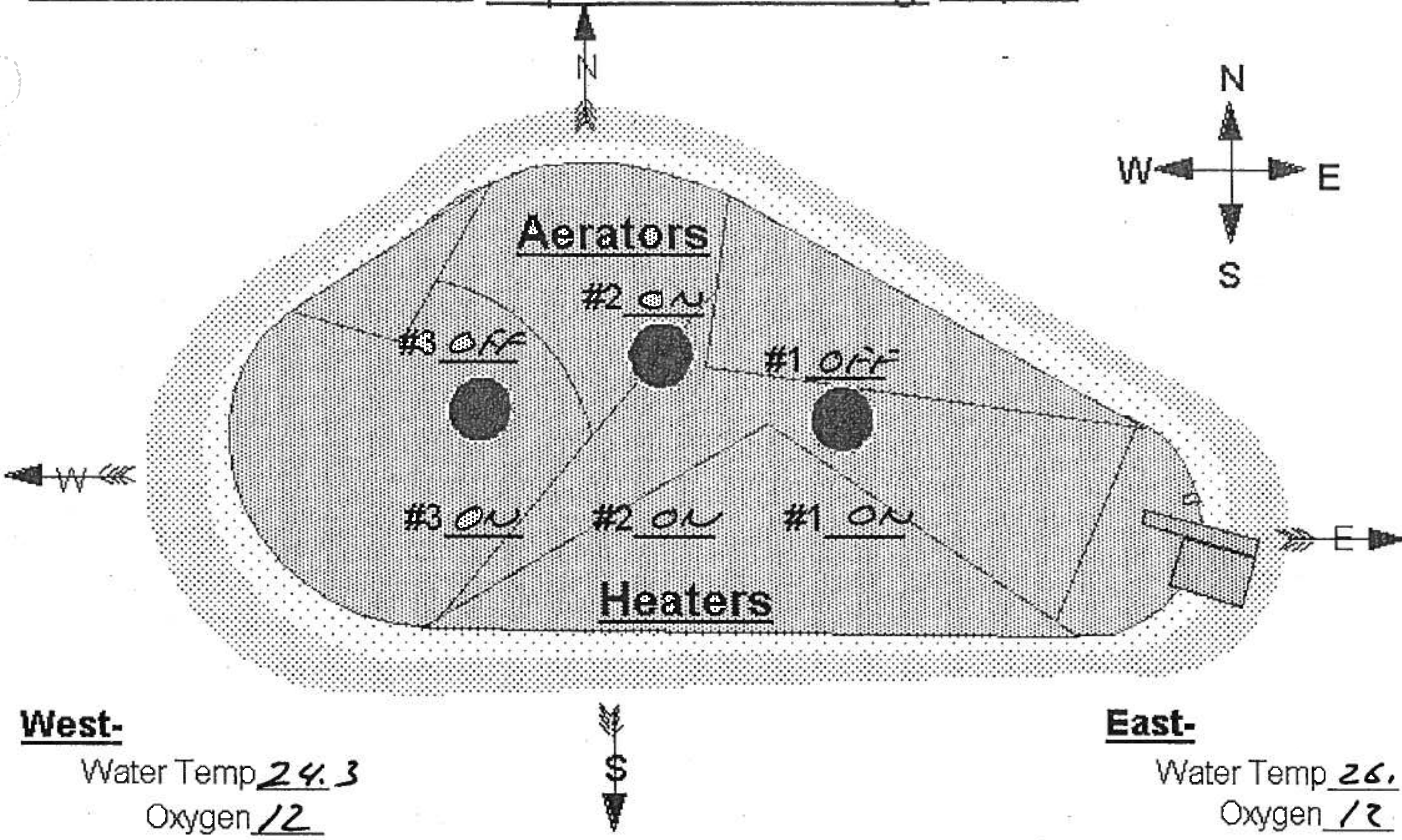
8-2-10
Date

Dan Arnold
Supervisor Review

8-2-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 24.3
Oxygen 12
pH 9.59
Time 1300

Water Level -1½"
Water Meter-Stop 6827855
Water Meter-Start 6796223

Water Added 31,632
Air Temp. 28.9
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 26.1
Oxygen 12
pH 10.02
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]
Inspected by

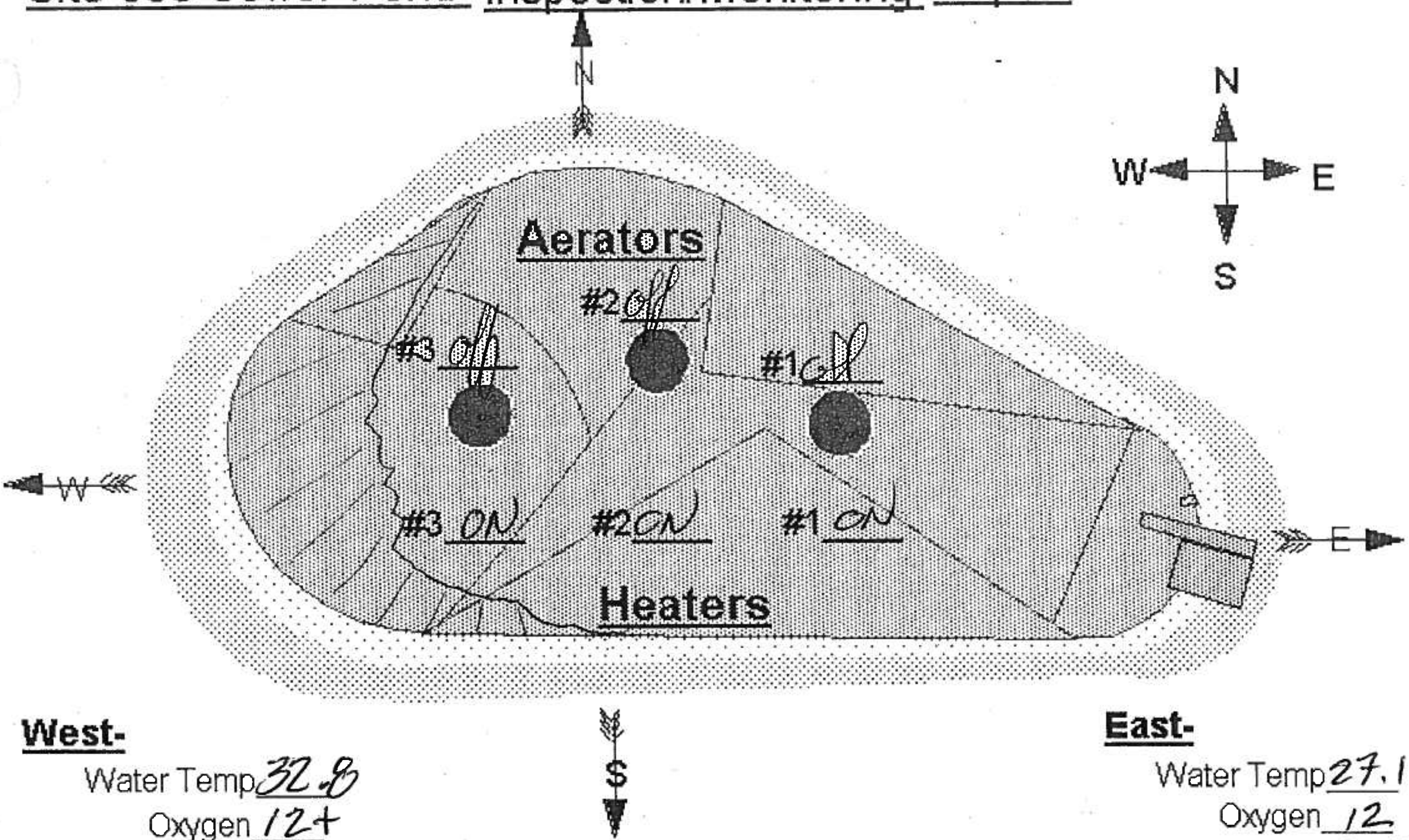
8-5-10
Date

[signature]
Supervisor Review

8-8-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 32.8
Oxygen 12+
pH 9.62
Time 1400

Water Level f 1/2
Water Meter-Stop 6865483
Water Meter-Start 6827855

Water Added 37,628
Air Temp. 91-32.8
Wind Direction E+W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- Some

East-

Water Temp 27.1
Oxygen 12
pH 9.42
Time 1400

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 Arnold
Inspected by

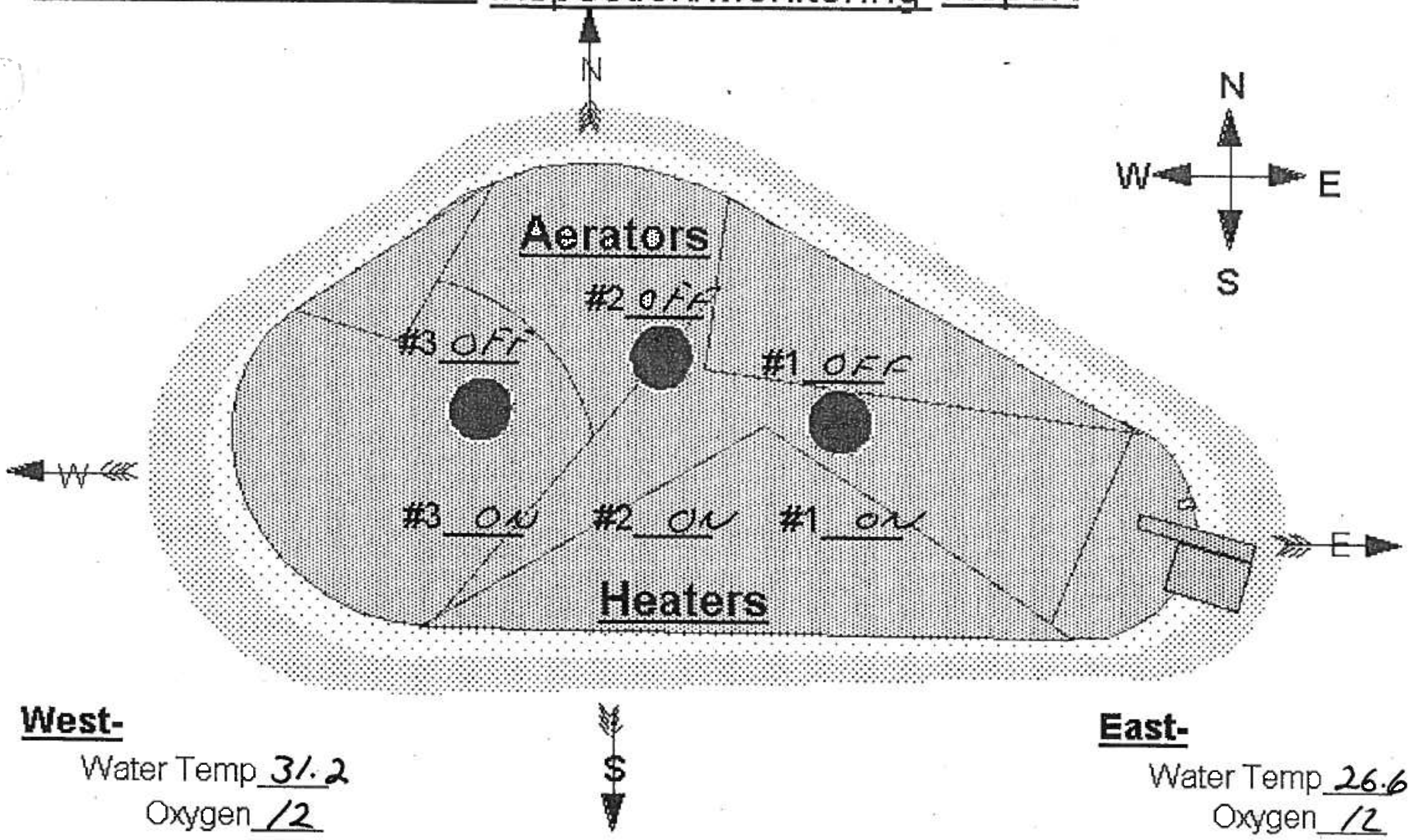
8-9-2010
Date

Dave Arnold
Supervisor Review

8-9-2010
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 31.2
Oxygen 12
pH 9.09
Time 1300

Water Level -½"
Water Meter-Stop 6872247
Water Meter-Start 6872247

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

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 26.6
Oxygen 12
pH 8.95
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]
Inspected by

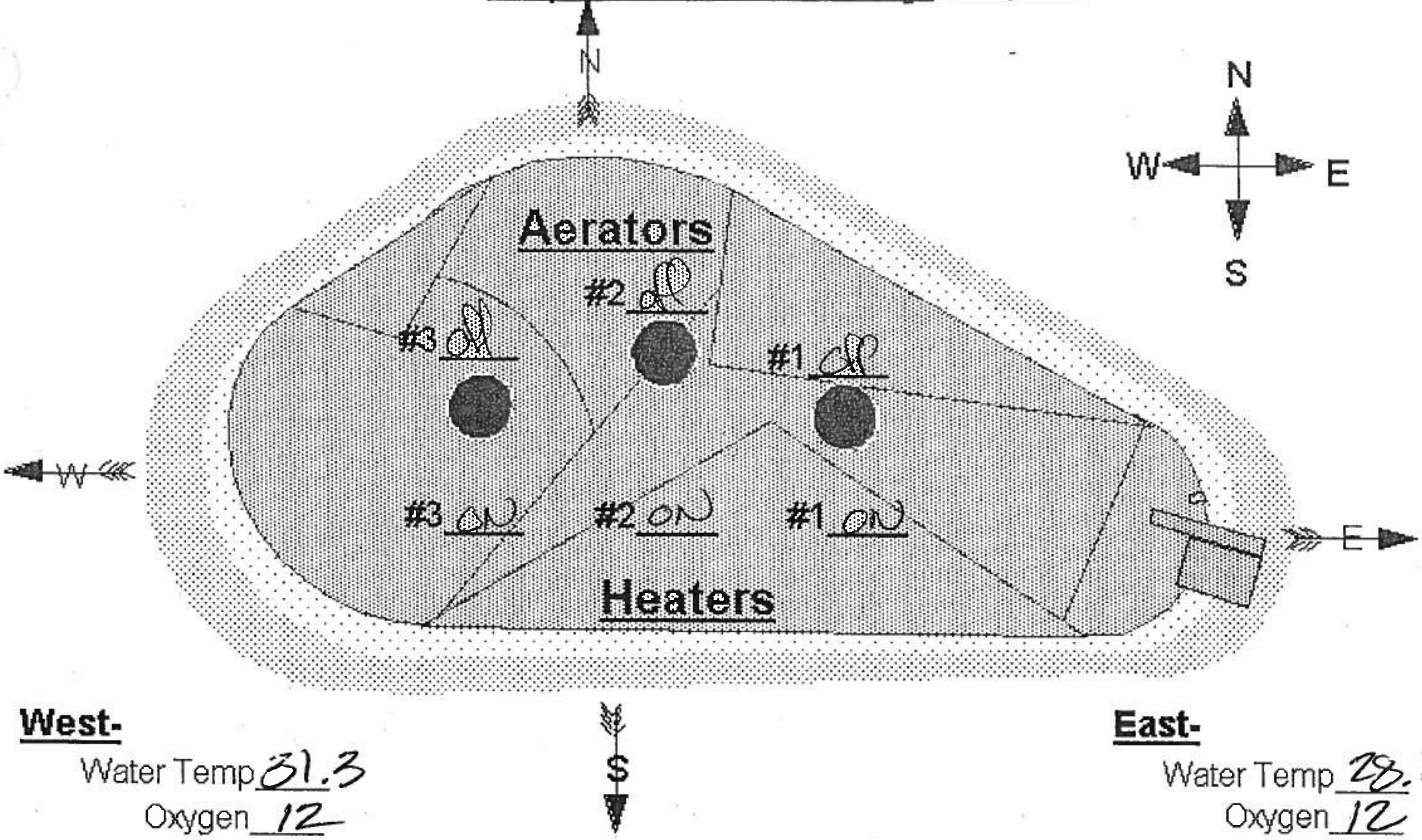
8-12-10
Date

[signature]
Supervisor Review

8-16-10
Date

Comments ____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 31.3
Oxygen 12
pH 9.27
Time 1400

Water Level -1¼
Water Meter-Stop 6872247
Water Meter-Start 10672247

Water Added Ø
Air Temp. 35.6 C
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- / slight.

East-

Water Temp 28.1
Oxygen 12
pH 9.01
Time 1410

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

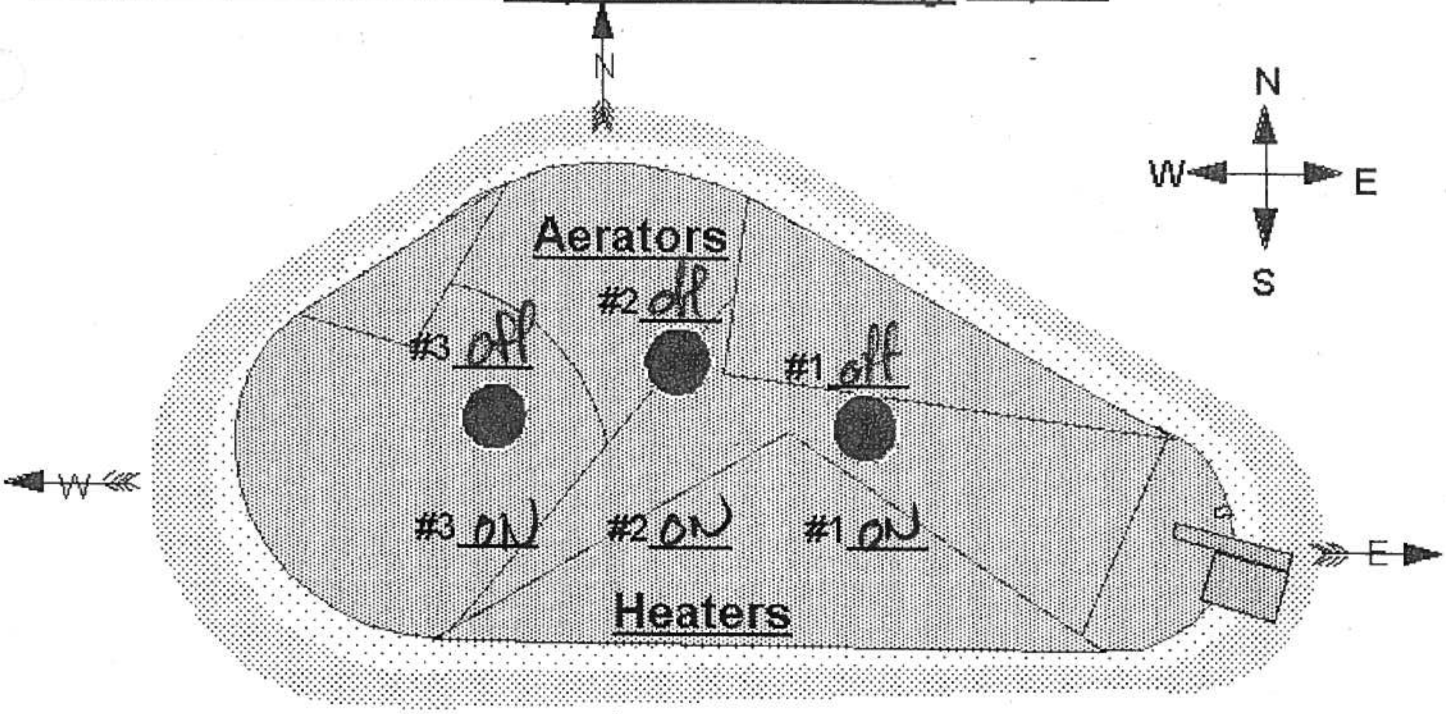
8-16-10
Date

Dan Amaro
Supervisor Review

8-16-10
Date

Comments ____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 30.4
Oxygen 12
pH 9.24
Time 1300

Water Level -1"
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added 0
Air Temp. 36.7
Wind Direction W to E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- Som

East-

Water Temp 28.6
Oxygen 12
pH 9.08
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 Annino
Inspected by

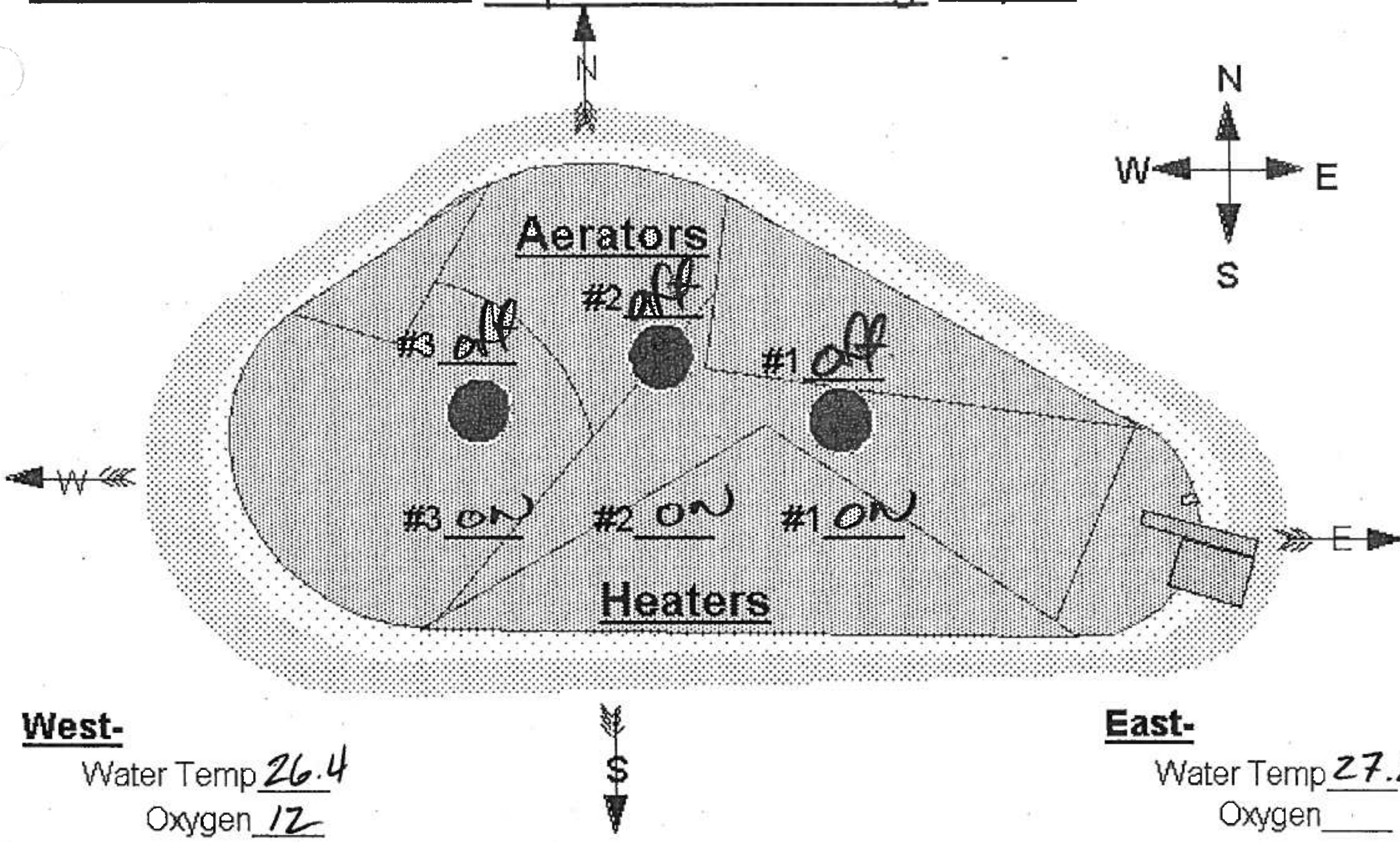
8-19-10
Date

Dave Annino
Supervisor Review

8-19-10
Date

Comments ____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.4
Oxygen 12
pH____
Time 1330

Water Level 2½
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added Ø
Air Temp. 94°
Wind Direction W to E

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- Norm

East-

Water Temp 27.2
Oxygen____
pH____
Time 1330

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Norm
Animal Burrows Norm
Weed Control Norm

Percolation Pond

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

Dave Arnold
Inspected by

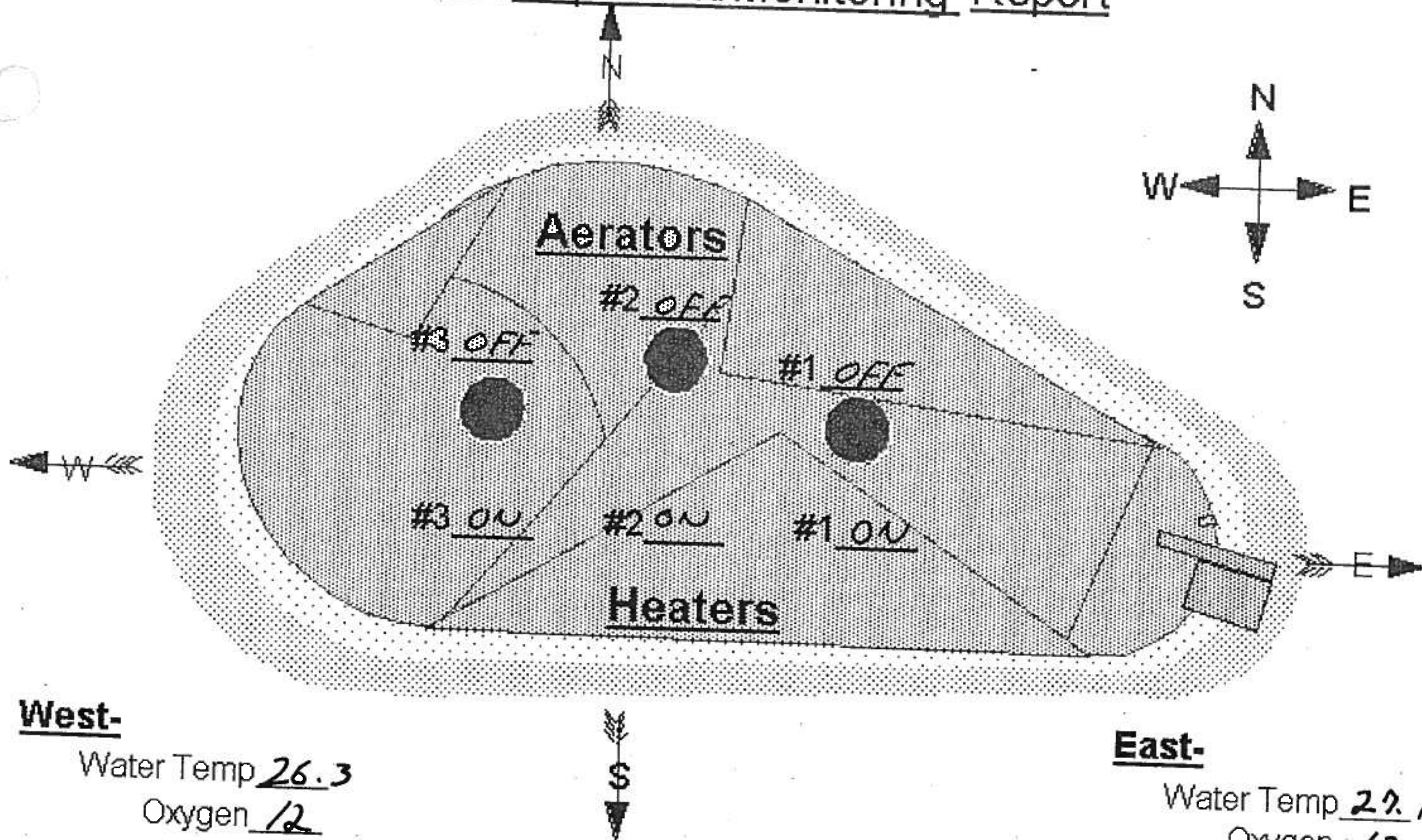
8-23-10
Date

Dave Arnold
Supervisor Review

8-23-10
Date

Comments____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.3
Oxygen 12
pH 9.15
Time 1300

Water Level -3"
Water Meter-Stop 6872247
Water Meter-Start 6872247

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

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 27.1
Oxygen 12
pH 9.27
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]
Inspected by

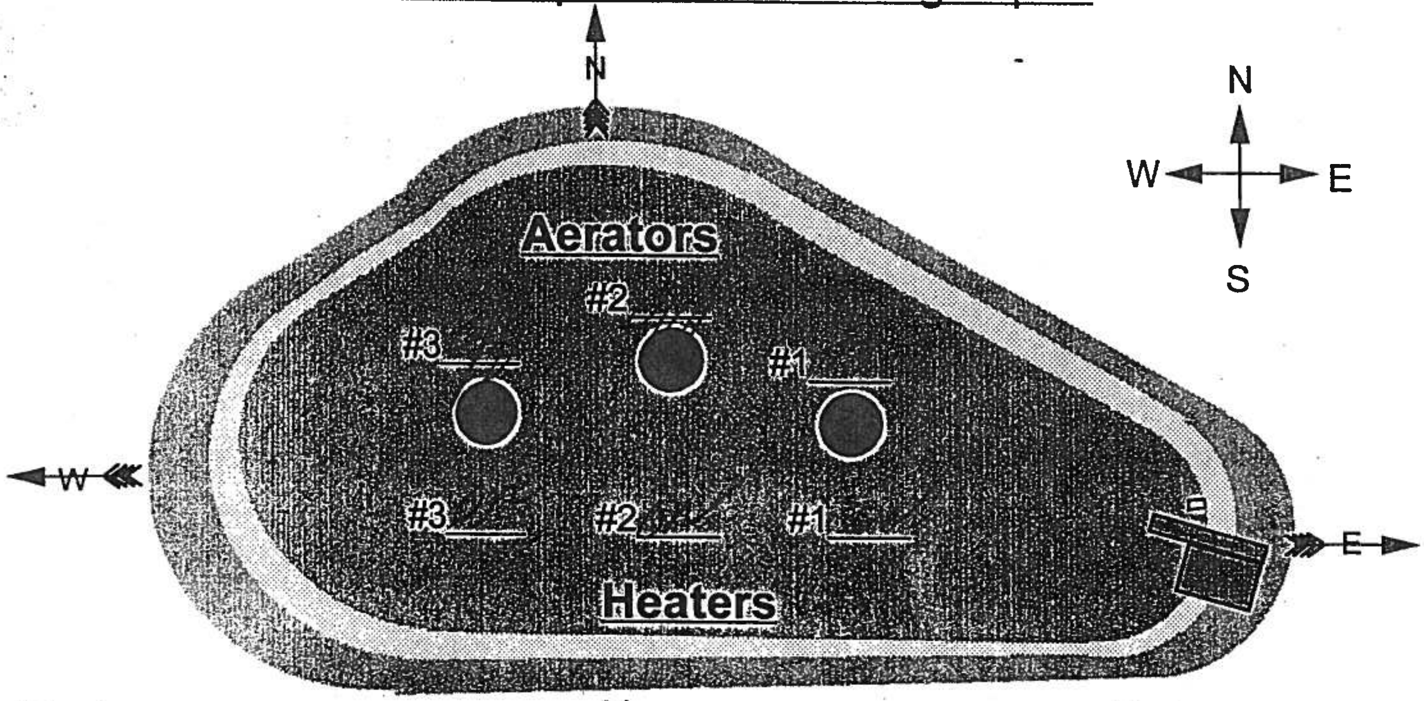
8-26-10
Date

[signature]
Supervisor Review

8-26-10
Date

Comments ____________________

Site 300 Sewer Pond-Inspection/Monitoring Report



West-

Water Temp 27.4
Oxygen 12
pH 9.48
Time 1300

East-

Water Temp 27.9
Oxygen 12
pH 9.30
Time 1300

Water Level -2½"
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added Ø
Air Temp. 32.6
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----/ Sour

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

Annoud Day
Inspected by

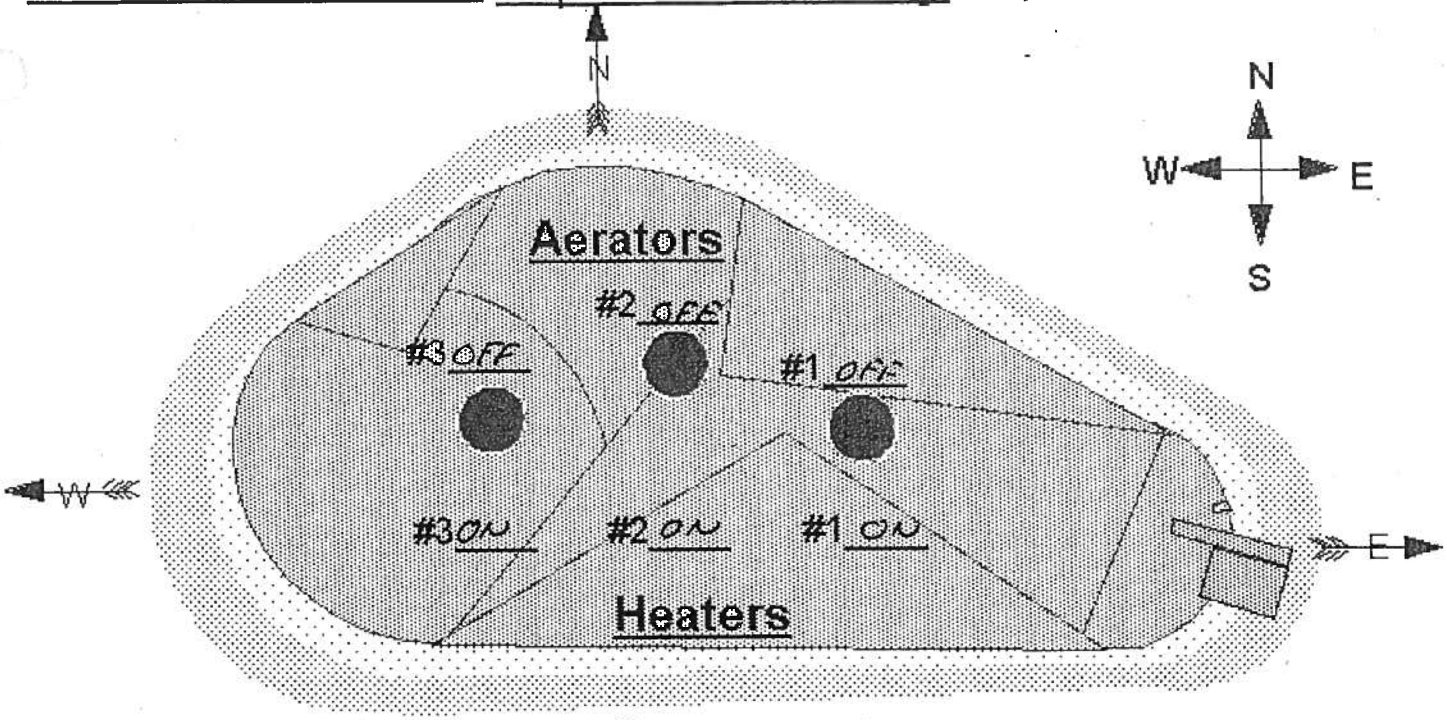
9-20-10
Date

Annoud Dave
Supervisor Review

9-20-10
Date

Comments ____________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 31.1

Oxygen 12

pH 9.48

Time 1300

East-

Water Temp 26.8

Oxygen 12

pH 9.41

Time 1330

Water Level -4 1/4"

Water Meter-Stop 6872247

Water Meter-Start 6872247

Water Added Ø

Air Temp. 36.7

Wind Direction E-W

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- DRY

Erosion SOME

Animal Burrows SOME

Weed Control SOME

[signature]
Inspected by

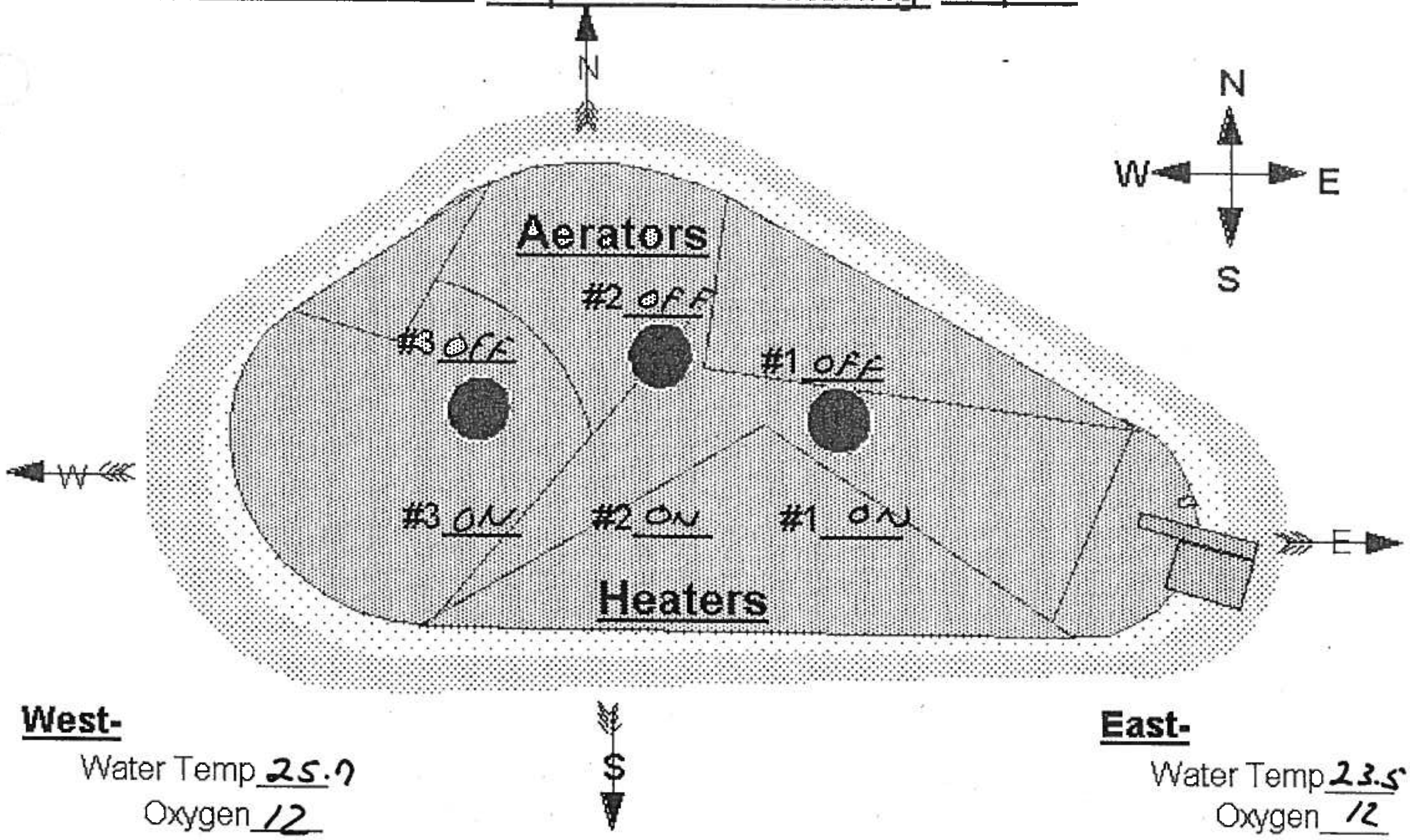
9-2-10
Date

Dan Annono
Supervisor Review

9-19-10
Date

Comments ____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 25.7
Oxygen 12
pH 9.45
Time 1400

Water Level -5"
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added ø
Air Temp. 25.0
Wind Direction E-W

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- SLIGHT

East-

Water Temp 23.5
Oxygen 12
pH 9.49
Time 1430

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

Water Level- DRY
Erosion SOME
Animal Burrows SOME
Weed Control SOME

[signature]
Inspected by

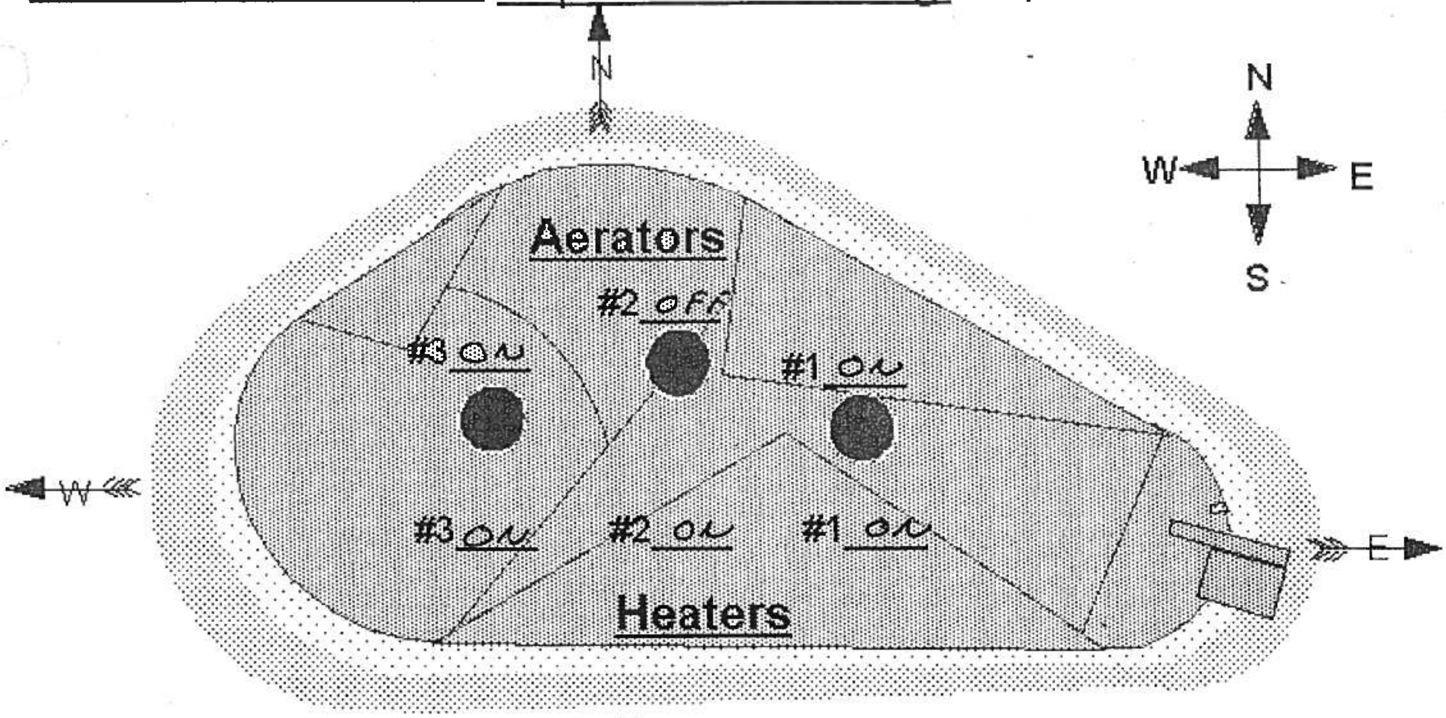
9-9-10
Date

Dave Amaro [signature]
Supervisor Review

9-19-10
Date

Comments________________________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 23.3
Oxygen 12
pH 9.49
Time 1300

East-

Water Temp 25.2
Oxygen 12
pH 9.51
Time 1330

Water Level -48½"
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added Ø
Air Temp. 26.1
Wind Direction W-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

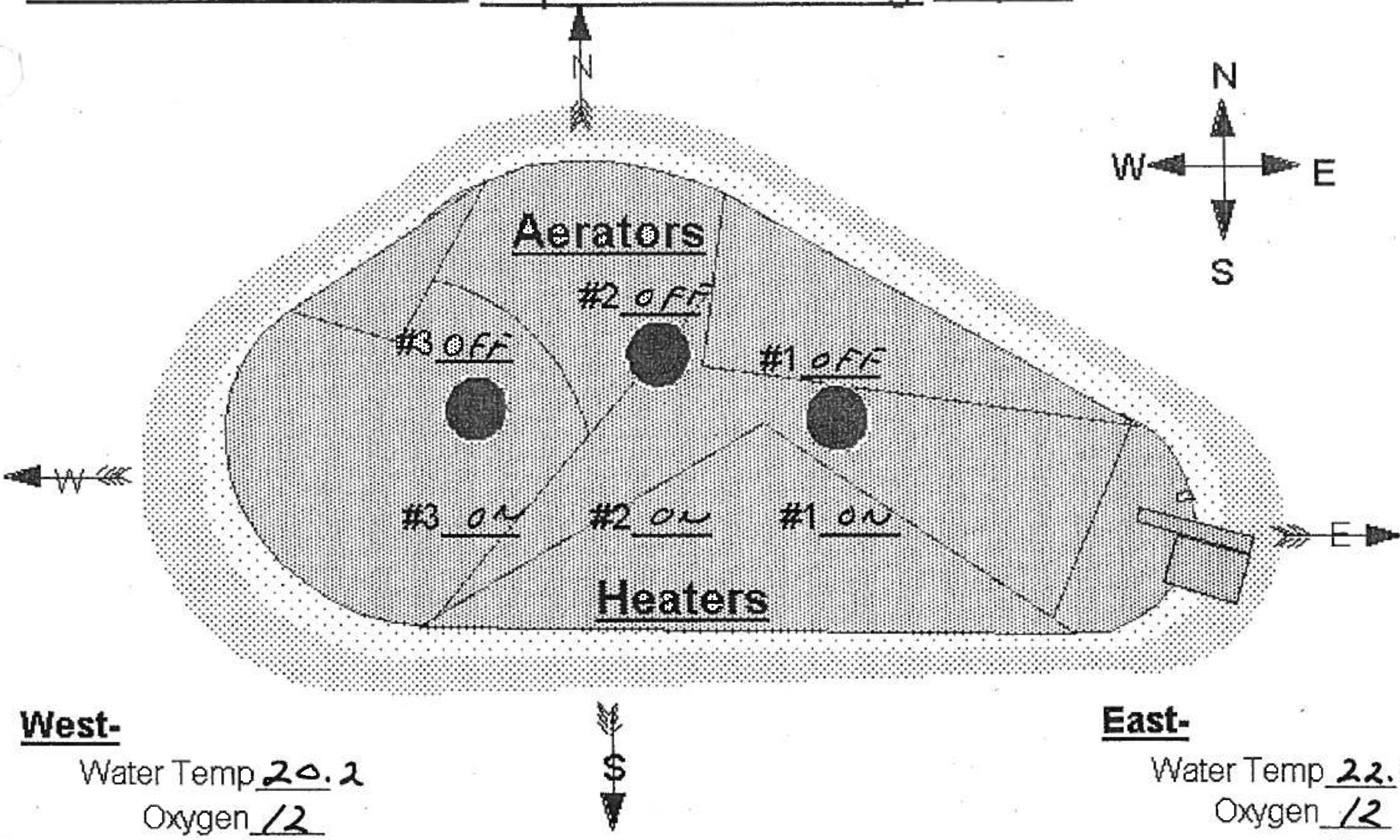
Water Level- DRY
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by [signature]
Date 9-13-10

Supervisor Review [signature]
Date 9-19-10

Comments____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 20.2
Oxygen 12
pH 9.41
Time 1300

Water Level -5"
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added 0
Air Temp 28.9
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- Slight

East-

Water Temp 22.9
Oxygen 12
pH 9.44
Time 1330

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

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

Water Level- Dry
Erosion Some
Animal Burrows Some
Weed Control Some

Duane [signature]
Inspected by

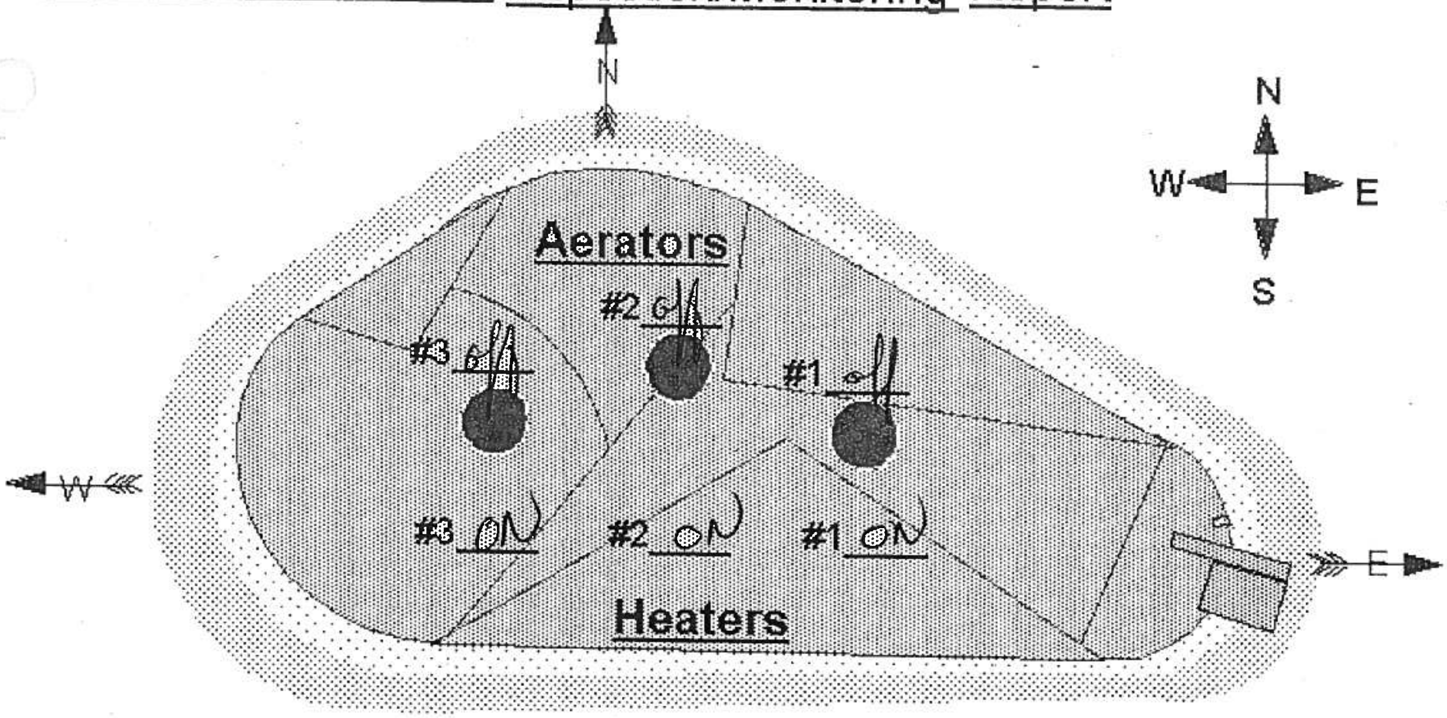
9-16-10
Date

Dave Arnero [signature]
Supervisor Review

9-19-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.2
Oxygen 12
pH 9.58
Time 1330

Water Level -5"
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added Ø
Air Temp. 40°C
Wind Direction E to W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- Slight.

East-

Water Temp 24.4
Oxygen 12
pH 9.56
Time 1330

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

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

Water Level- NO
Erosion Some
Animal Burrows Some
Weed Control Some

[signature]
Inspected by

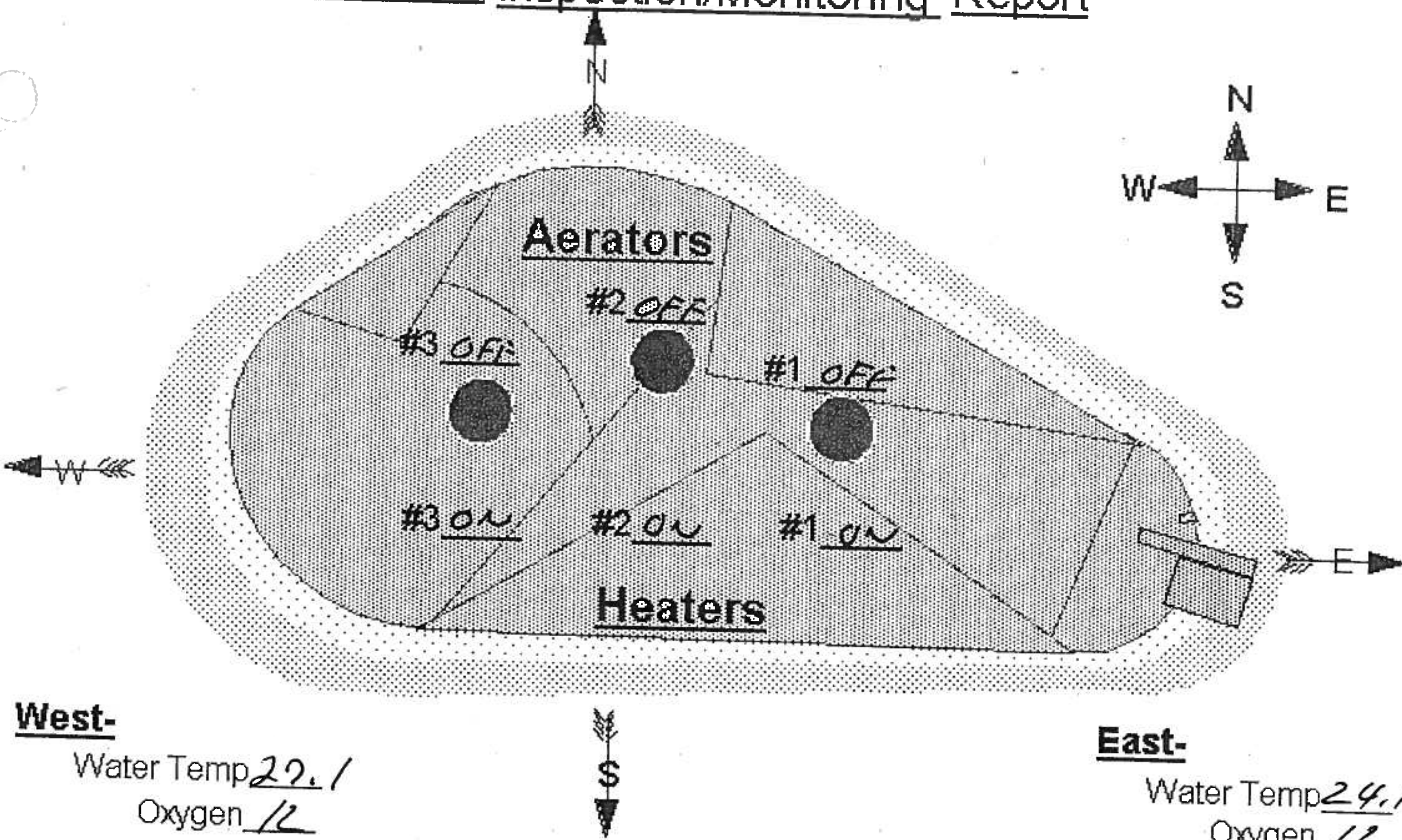
9-30-10
Date

[signature]
Supervisor Review

9-30-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 22.1
Oxygen 12
pH 9.61
Time 1300

Water Level -4¼"
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added Ø
Air Temp. 27.8
Wind Direction E-W

East-

Water Temp 24.1
Oxygen 12
pH 9.58
Time 1330

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

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

Erosion Same
Animal Burrows Same
Weed Control Same

Percolation Pond

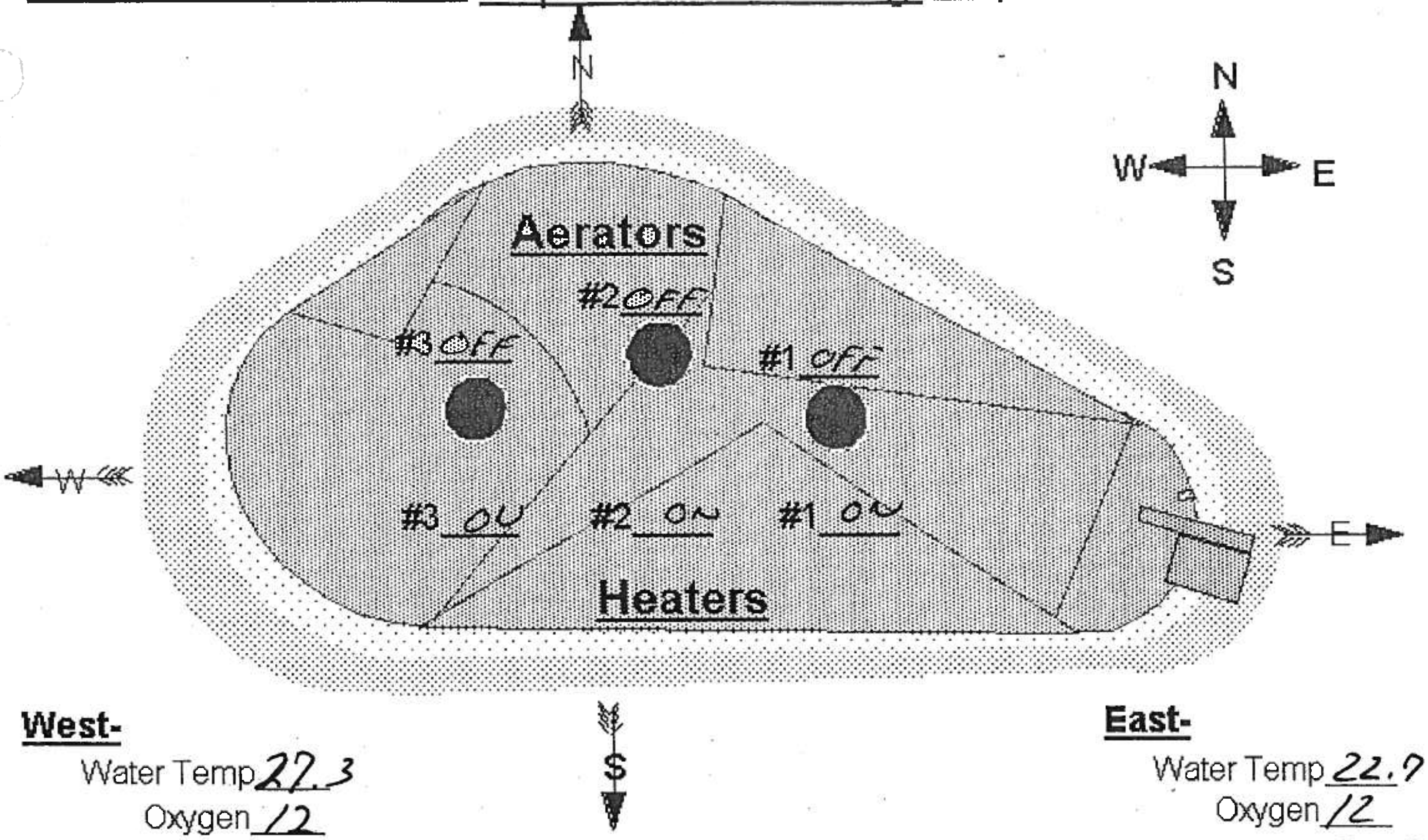
Water Level- DRY
Erosion Same
Animal Burrows Same
Weed Control Same

Inspected by [signature] — Date 9-23-16

Supervisor Review [signature] — Date 10-3-10

Comments ____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 22.3
Oxygen 12
pH 9.57
Time 1300

East-

Water Temp 22.7
Oxygen 12
pH 9.57
Time 1330

Water Level -4 1/4"
Water Meter-Stop 6872247
Water Meter-Start 6872247

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

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 DRY
Erosion SOME
Animal Burrows SOME
Weed Control SOME

[signature]
Inspected by

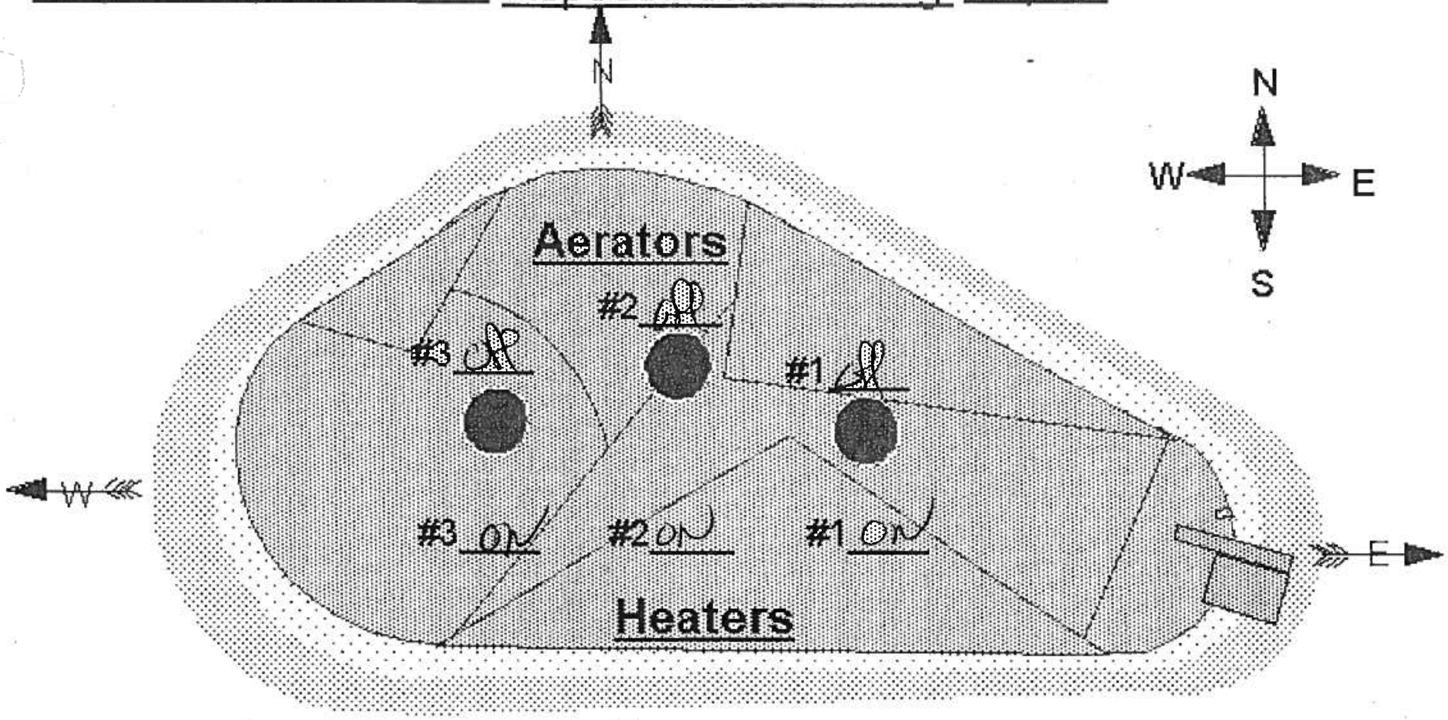
9-27-10
Date

[signature]
Supervisor Review

10-2-10
Date

Comments____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 24.7
Oxygen 12
pH 9.58
Time 1300

East-

Water Temp 24.1
Oxygen 12
pH 9.54
Time 1300

Water Level -4

Water Meter-Stop 6872247

Water Meter-Start 6872247.

Water Added 0

Air Temp. 32.1

Wind Direction W-E

COLOR----

Green ✓

Green Brown ____

Brown Green ____

Brown ____

ODOR---- Some

Common Bacterium-Per Drop ____

Activated Sludge ____

Glass Tube Test ____

Erosion ✓

Animal Burrows Some

Weed Control Some

Percolation Pond

Water Level- Dry

Erosion Some

Animal Burrows Some

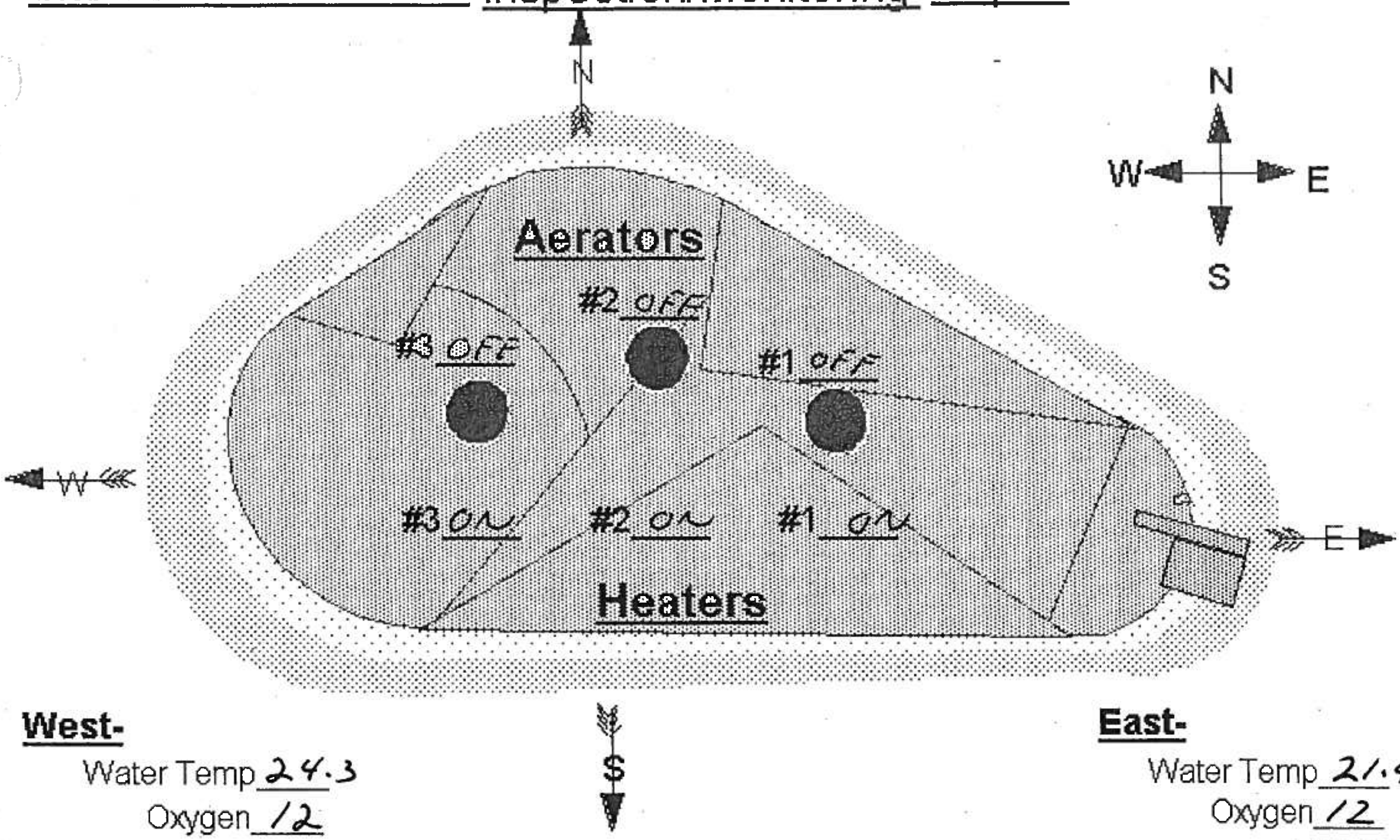
Weed Control Some

Inspected by ____ **Date** 10-4-10

Supervisor Review ____ **Date** 10-4-10

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 24.3
Oxygen 12
pH 9.55
Time 1330

Water Level -3"
Water Meter-Stop 6872247
Water Meter-Start 6872247

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

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- SLIGHT

East-

Water Temp 21.4
Oxygen 12
pH 9.54
Time 1400

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

Water Level- DRY
Erosion SOME
Animal Burrows SOME
Weed Control SOME

[signature]
Inspected by

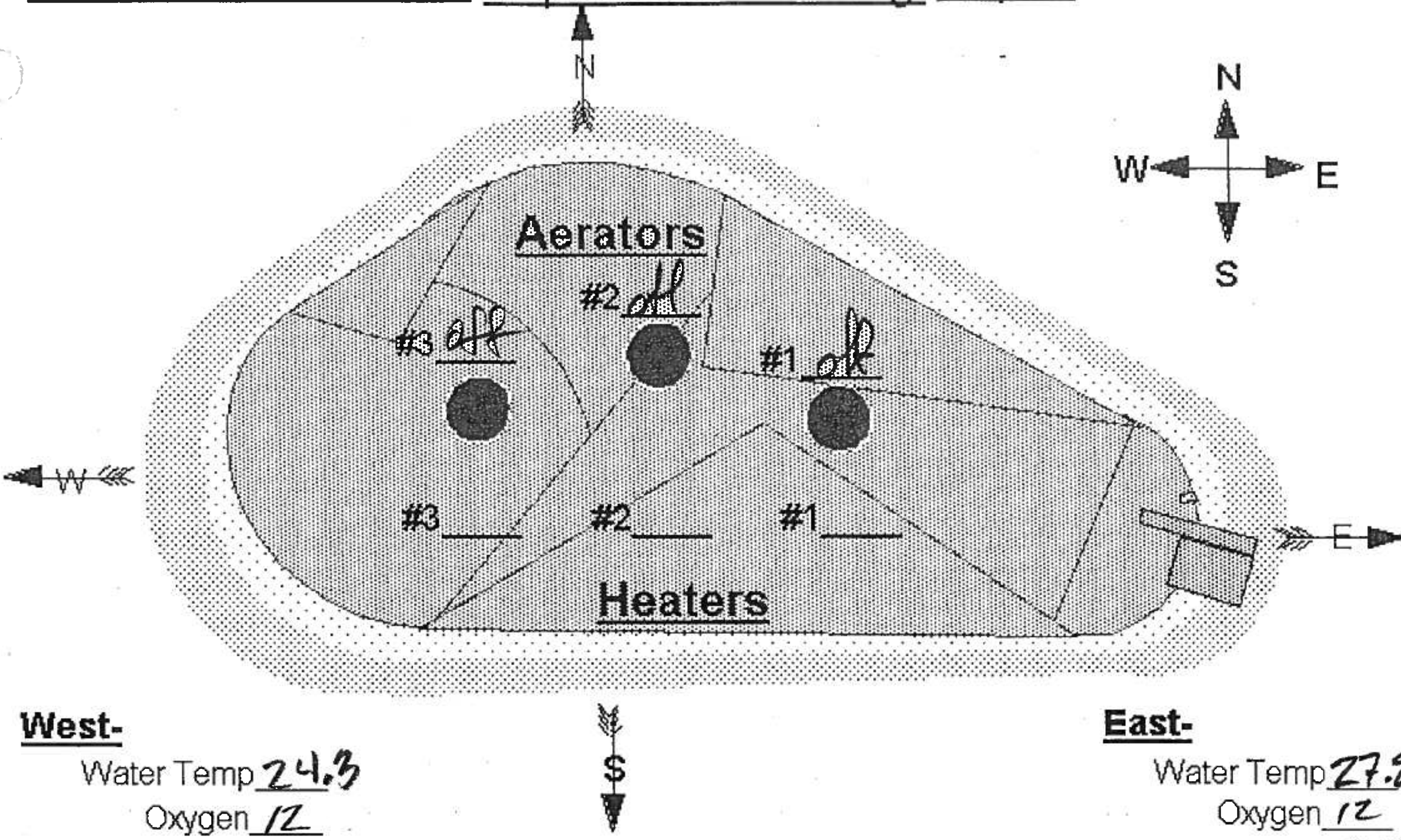
10-7-10
Date

[signature]
Supervisor Review

10-7-10
Date

Comments____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 24.3
Oxygen 12
pH 9.67
Time 1350

Water Level -1/2
Water Meter-Stop 6872247.
Water Meter-Start 6872247.

Water Added 0
Air Temp. 32.2
Wind Direction W-to-E

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR----/ Some

East-

Water Temp 27.8
Oxygen 12
pH 9.59
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

Dave Ammons
Inspected by

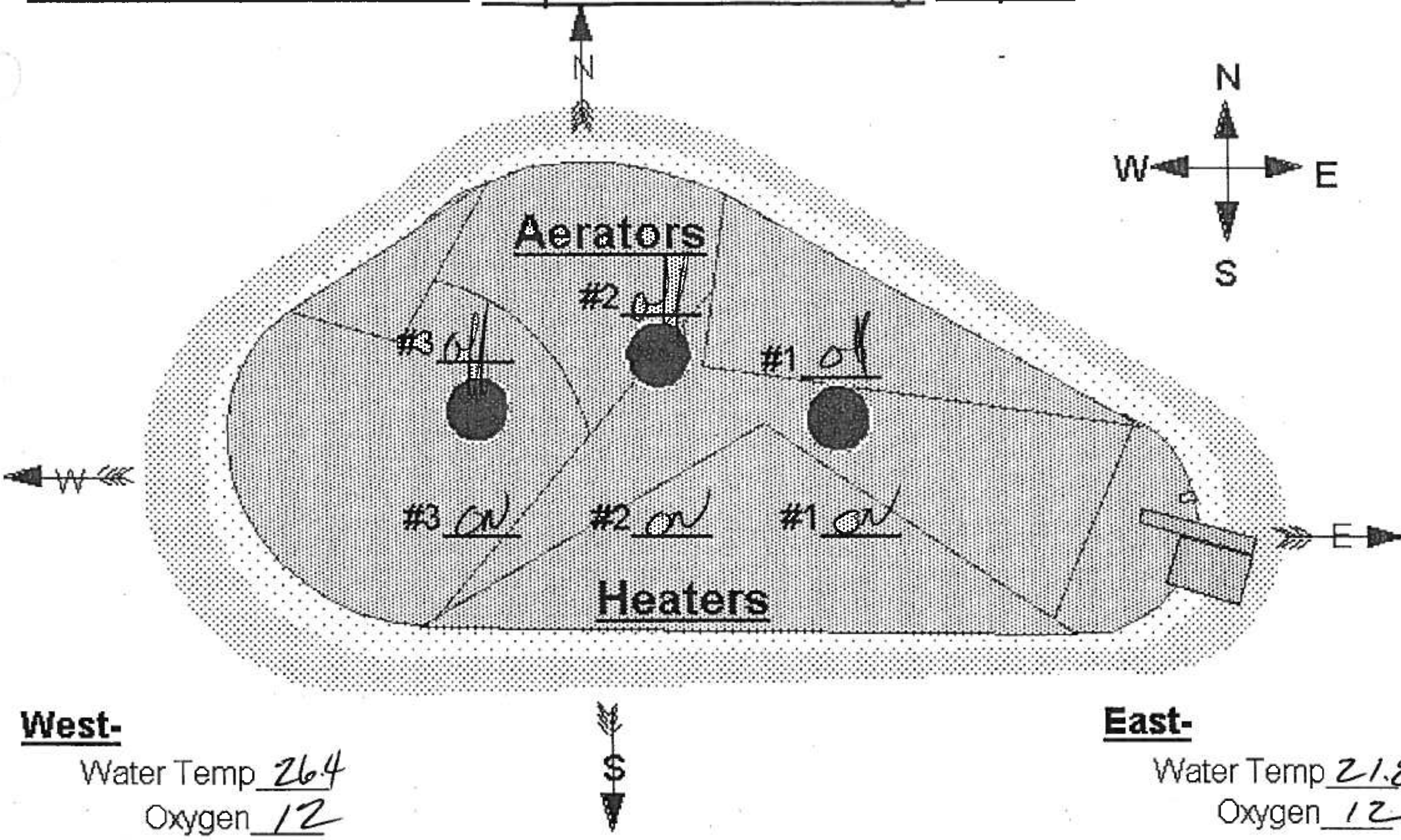
10-11-10
Date

Dave Ammons
Supervisor Review

10-11-10
Date

Comments____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.4
Oxygen 12
pH 9.51
Time 1300

Water Level -1½
Water Meter-Stop 16872247
Water Meter-Start 16872247.

Water Added 0
Air Temp. 30.4
Wind Direction W to E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- None

East-

Water Temp 21.8
Oxygen 12
pH 9.55
Time 1300

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

Erosion Som
Animal Burrows Som
Weed Control Som

Percolation Pond

Water Level- Dry
Erosion Som
Animal Burrows Som
Weed Control Som

Dan Amaro
Inspected by

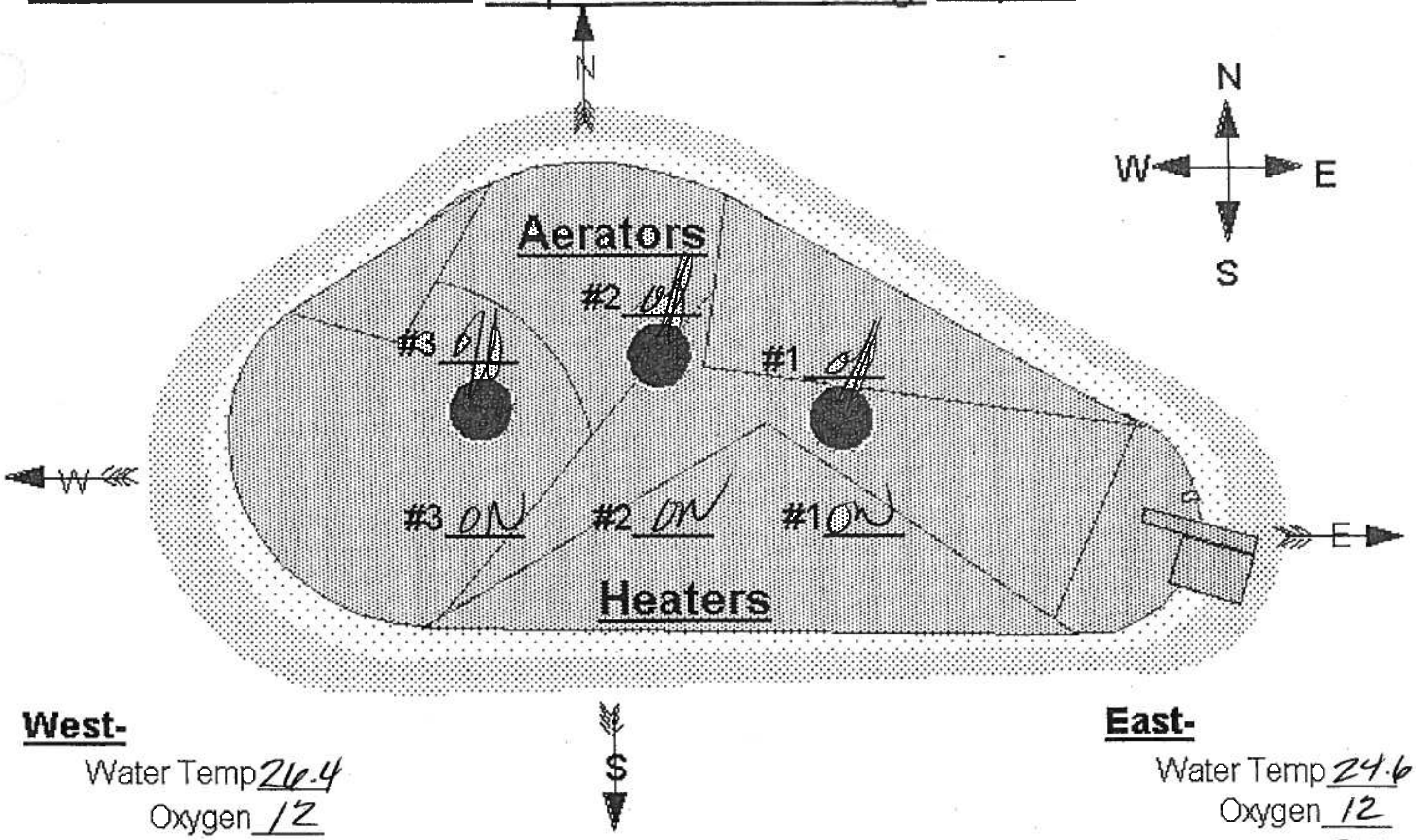
10-14-10
Date

Dan Amaro
Supervisor Review

10-14-10
Date

Comments ____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 26.4
Oxygen 12
pH 9.58
Time 1300

Water Level 1"
Water Meter-Stop 6872247
Water Meter-Start 6872247.

Water Added 0
Air Temp. 24.4
Wind Direction West

COLOR----

Green ✓
Green Brown ___
Brown Green ___
Brown ___

ODOR----/ Som

East-

Water Temp 24.6
Oxygen 12
pH 9.56
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

Dan Arnold
Inspected by

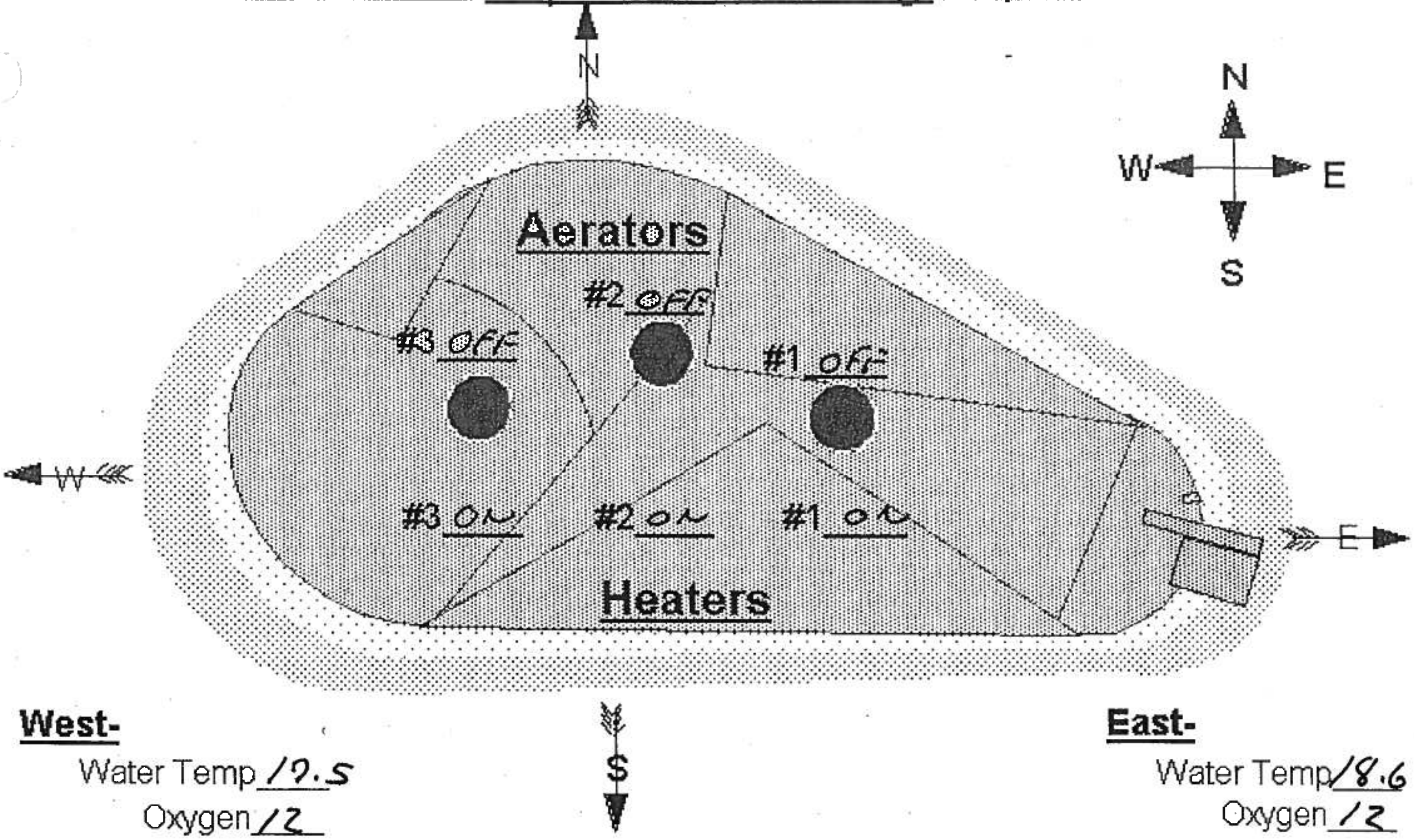
10-18-10
Date

Dan Arnold
Supervisor Review

10-18-10
Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 17.5
Oxygen 12
pH 9.45
Time 1300

Water Level +3/4"
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added Ø
Air Temp. 18.3
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 18.6
Oxygen 12
pH 9.43
Time 1330

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

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

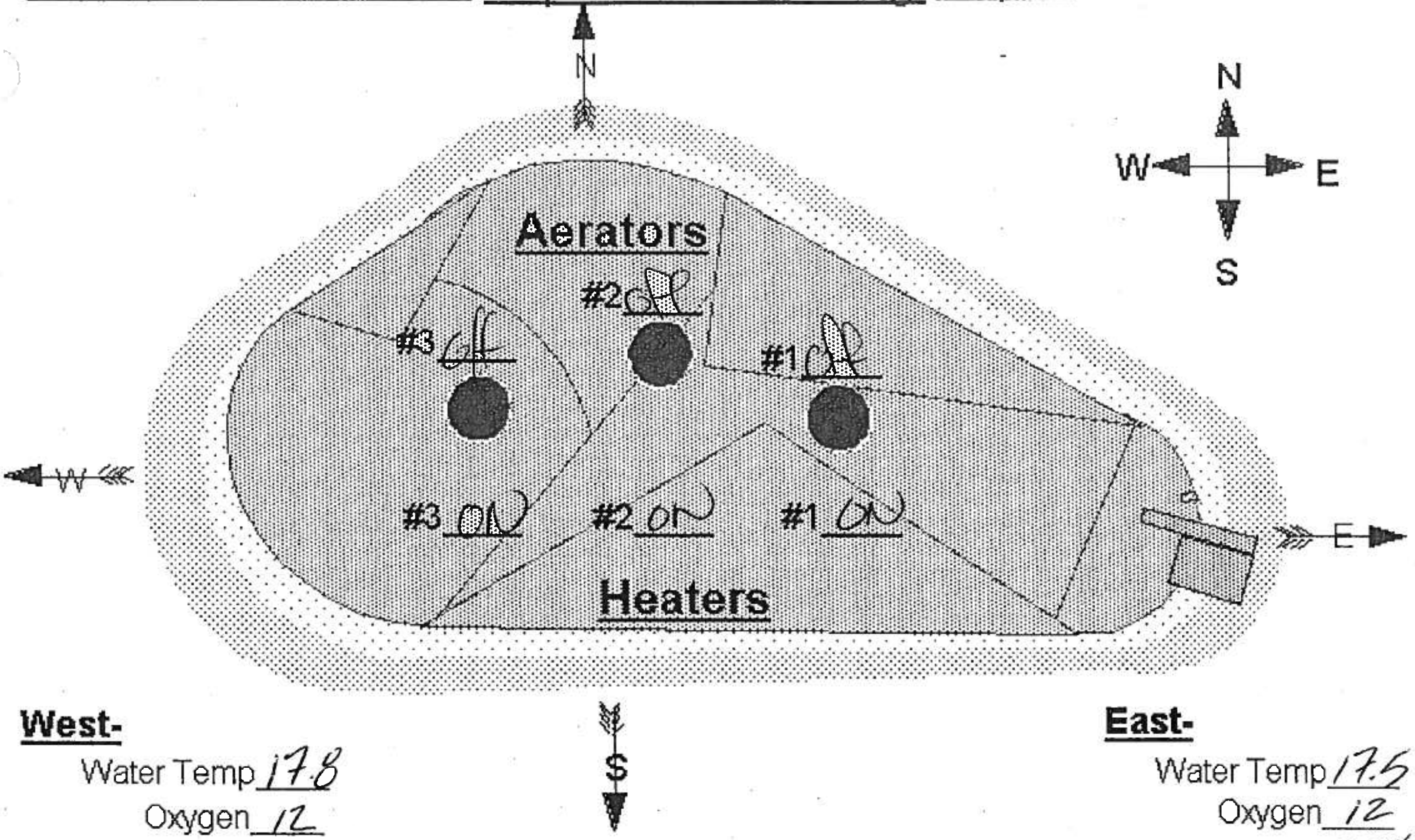
Water Level- DRY
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Inspected by [signature] **Date** 10-21-10

Supervisor Review [signature] **Date** 10-21-10

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 17.8
Oxygen 12
pH 9.58
Time 1300

Water Level +1
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added 0
Air Temp. 18.6
Wind Direction E to W

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR----/ None

East-

Water Temp 17.5
Oxygen 12
pH 9.54
Time 1300

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Good
Animal Burrows Good
Weed Control Good

Percolation Pond

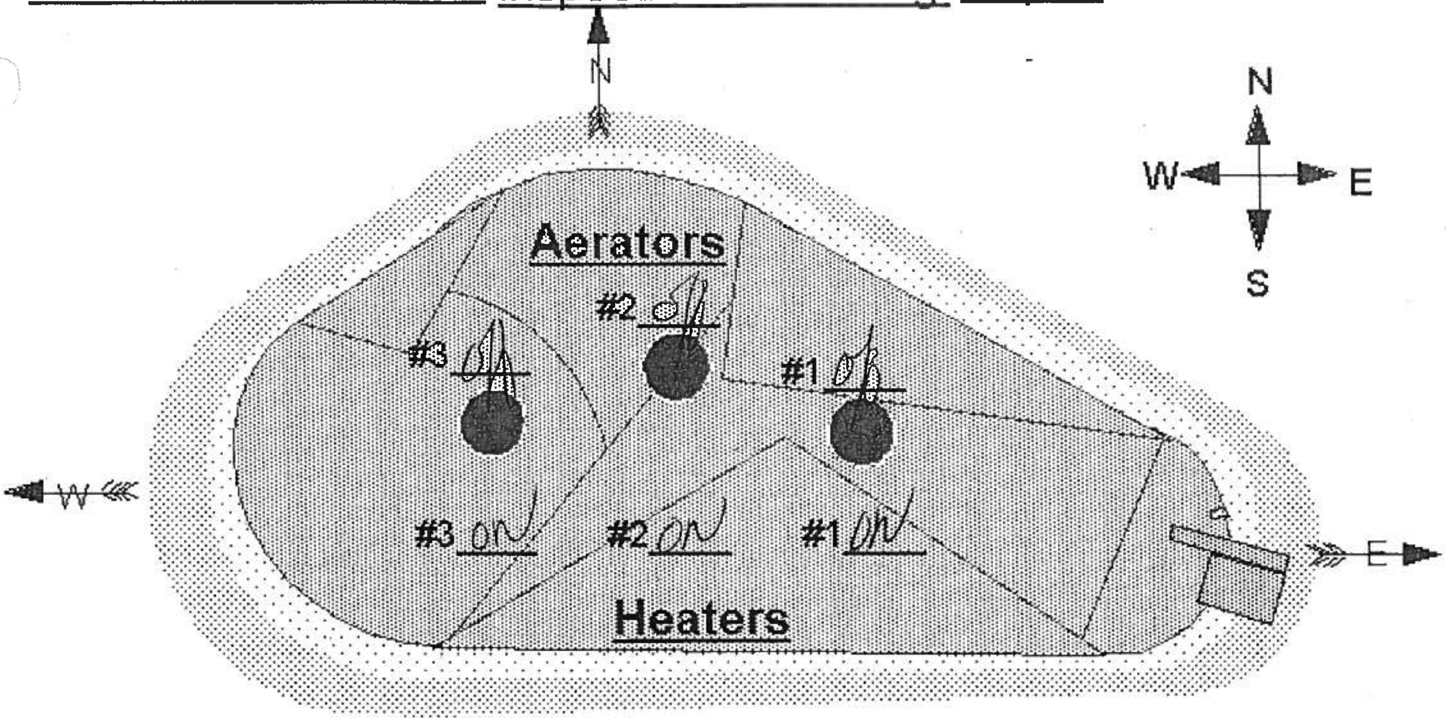
Water Level- Dry
Erosion Good
Animal Burrows Good
Weed Control Good

Inspected by ____ **Date** 10-25-10

Supervisor Review ____ **Date** 10-25-10

Comments____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 17.6
Oxygen 12
pH 9.59
Time 1400

East-

Water Temp 17.4
Oxygen 12
pH 9.48
Time 1400

Water Level #13/4.
Water Meter-Stop 6872247
Water Meter-Start 6872247

Water Added 0
Air Temp. 18.3
Wind Direction E-W

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- None
Erosion Some
Animal Burrows Some
Weed Control Some

[signature]
Inspected by

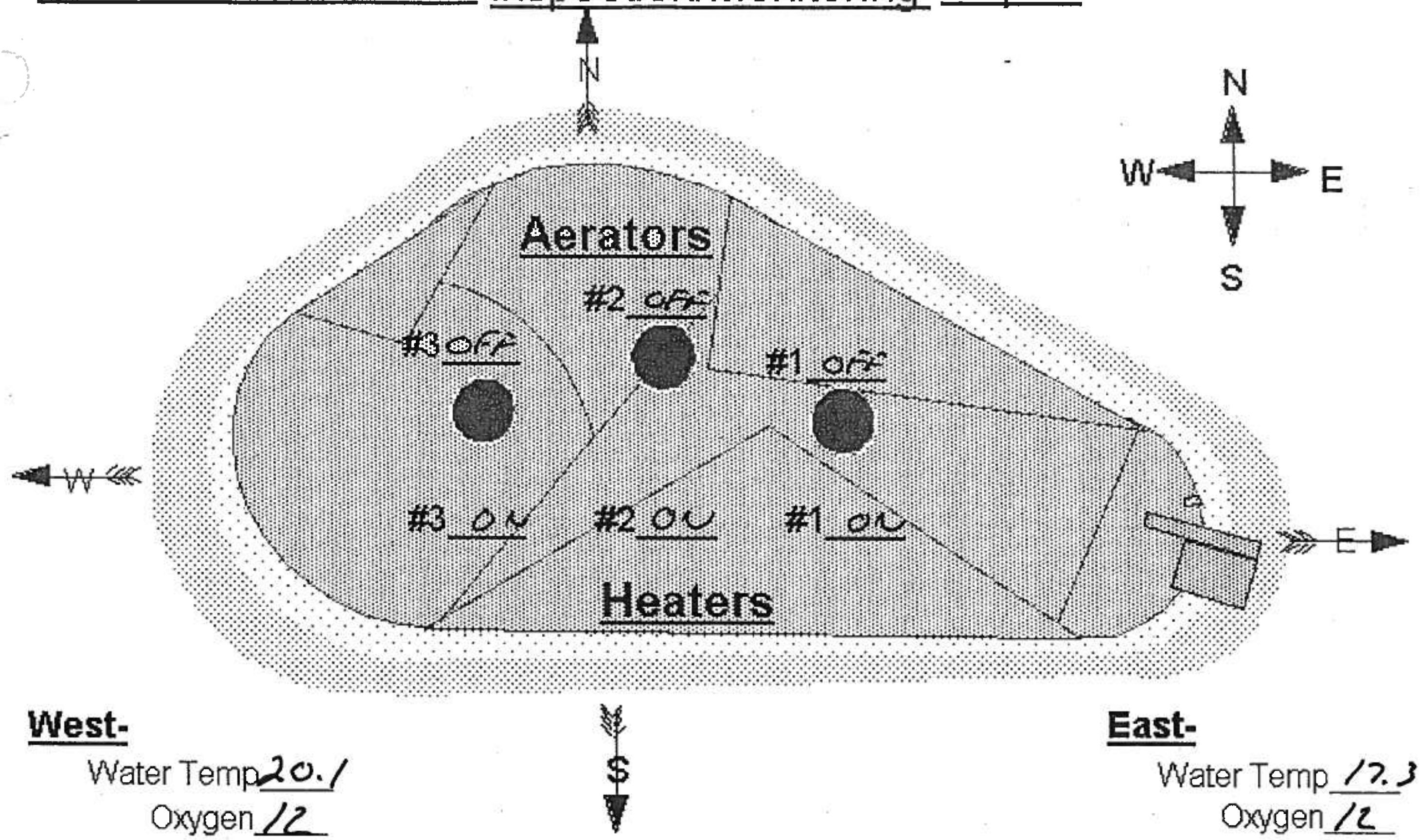
11-1-10
Date

[signature]
Supervisor Review

11-1-10
Date

Comments____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 20.1
Oxygen 12
pH 9.54
Time 1300

Water Level +2¼"
Water Meter-Stop 6872274
Water Meter-Start 6872274

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

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SOME

East-

Water Temp 17.3
Oxygen 12
pH 9.50
Time 1330

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

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

Water Level- DRY
Erosion SOME
Animal Burrows SOME
Weed Control SOME

[signature]
Inspected by

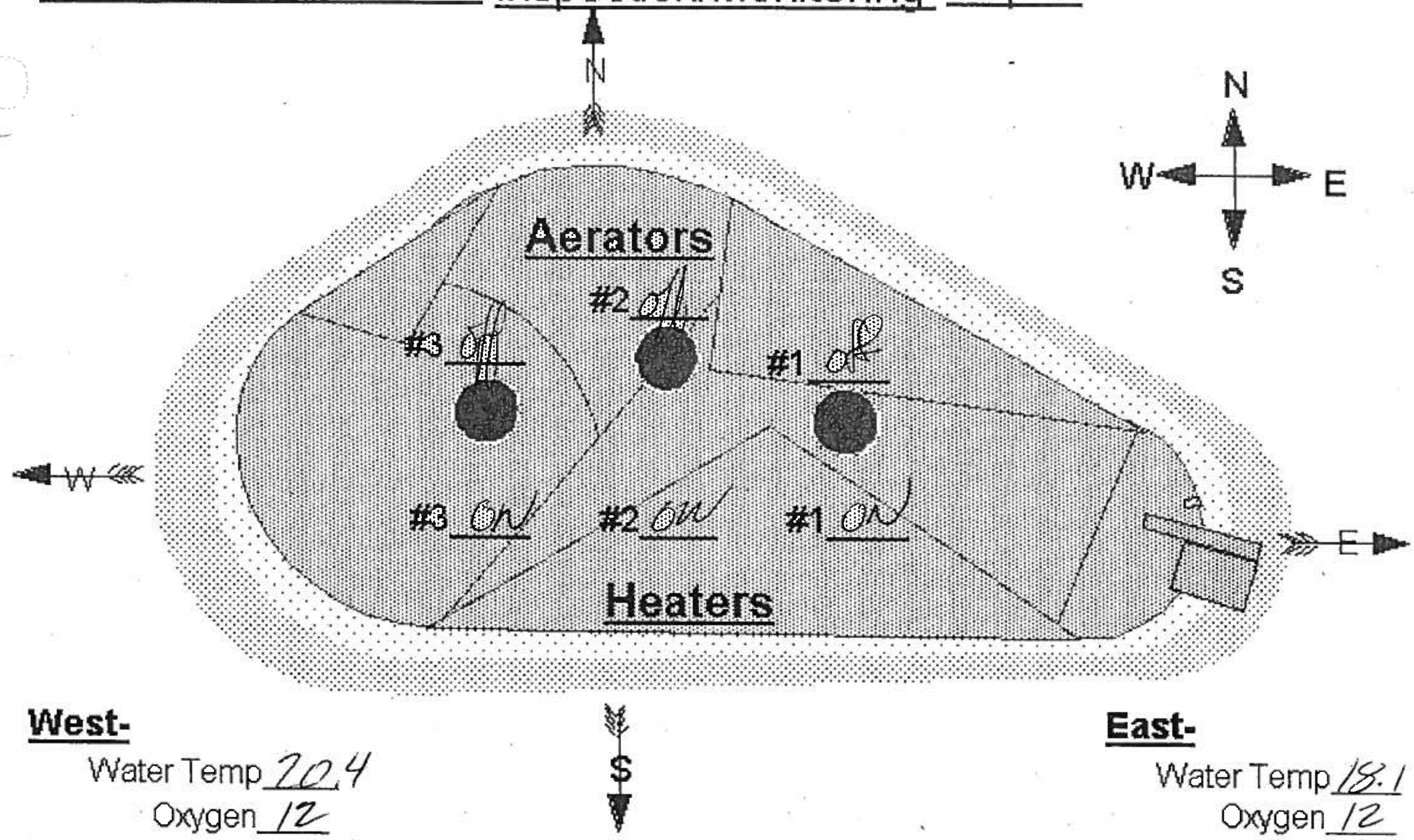
11-4-10
Date

[signature]
Supervisor Review

11-4-10
Date

Comments ____________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 20.4
Oxygen 12
pH 9.58
Time 1400

Water Level +2¼
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 26.8
Wind Direction E-W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- Some

East-

Water Temp 18.1
Oxygen 12
pH 9.53
Time 1400

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

Erosion Small
Animal Burrows Small
Weed Control Small

Percolation Pond

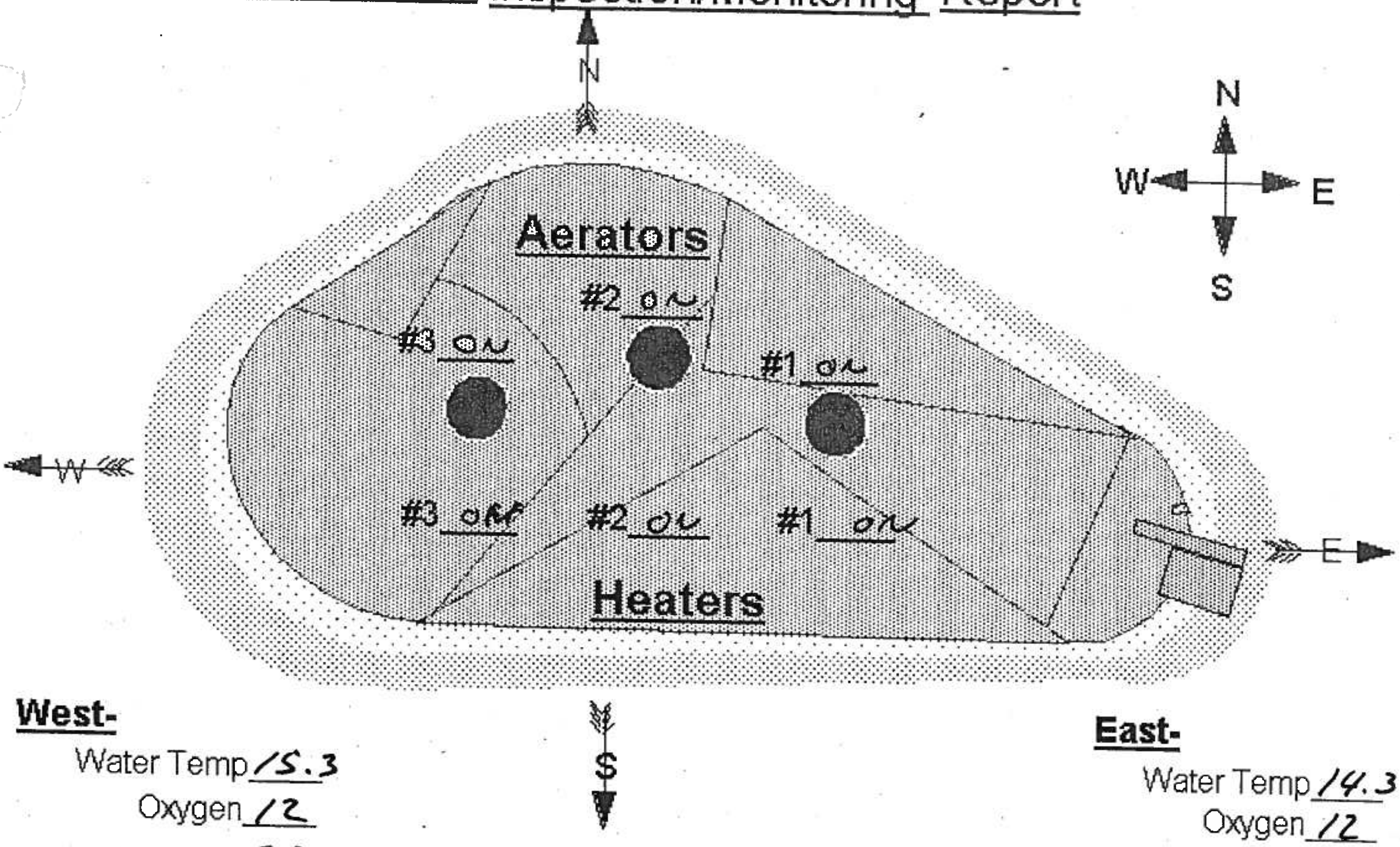
Water Level- Dry
Erosion Som
Animal Burrows Som
Weed Control Som

Don Arrows
Inspected by
11-8-10
Date

Don Arrows
Supervisor Review
11-8-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 15.3
Oxygen 12
pH 9.38
Time 1330

Water Level +2¼"
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 18.3
Wind Direction W-E

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- slight

East-

Water Temp 14.3
Oxygen 12
pH 9.36
Time 1400

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion some
Animal Burrows some
Weed Control some

Percolation Pond

Water Level- DRY
Erosion some
Animal Burrows some
Weed Control some

[signature]
Inspected by

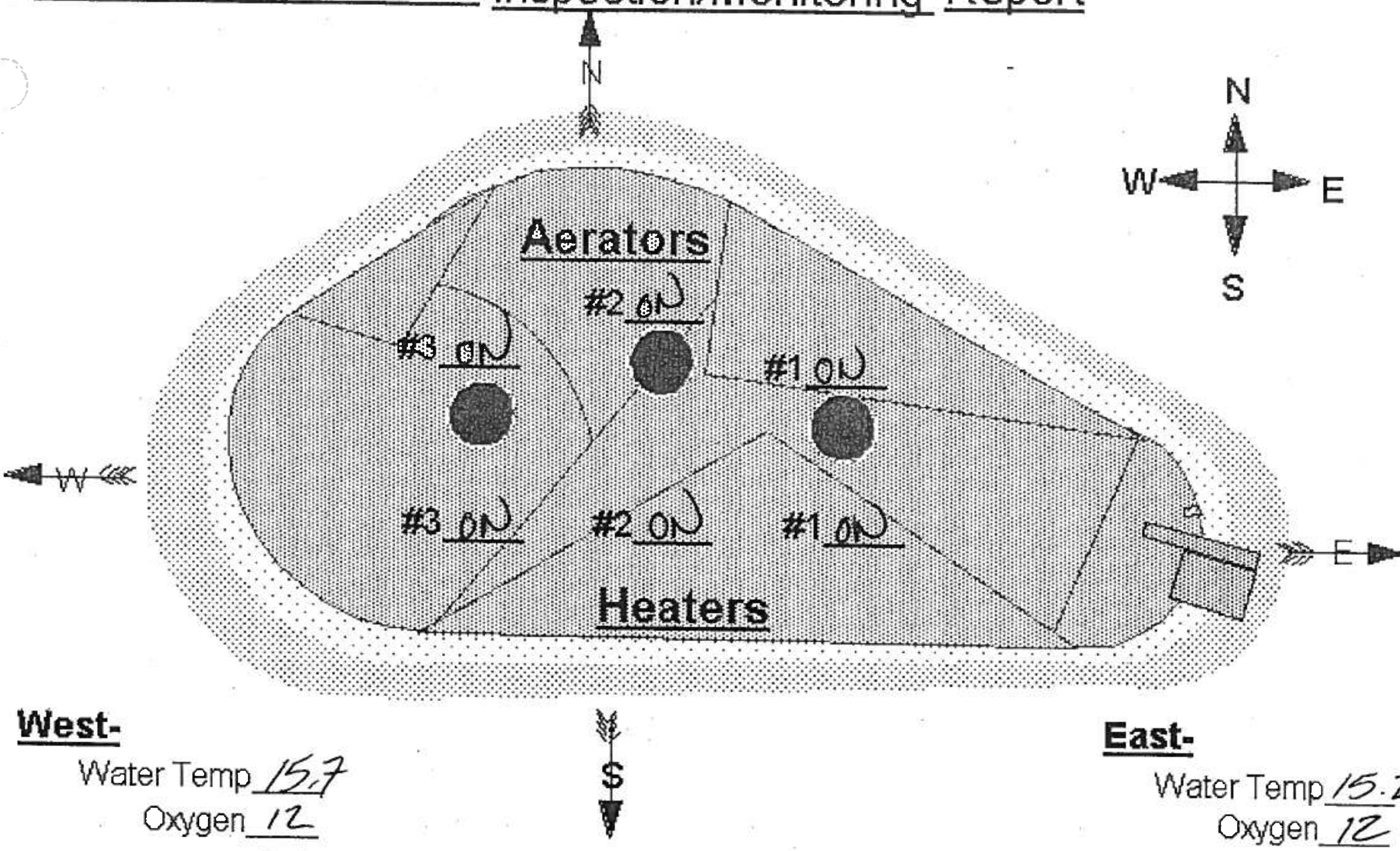
11-11-10
Date

[signature]
Supervisor Review

11-11-10
Date

Comments____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 15.7
Oxygen 12
pH 9.42
Time 1400

Water Level +3
Water Meter-Stop 68722274
Water Meter-Start 68722274

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

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- Slight

East-

Water Temp 15.2
Oxygen 12
pH 9.38
Time 1400

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

Erosion Same
Animal Burrows Same
Weed Control Same

Percolation Pond

Water Level- Dry
Erosion Some
Animal Burrows Same
Weed Control Same

Dave Amaro
Inspected by

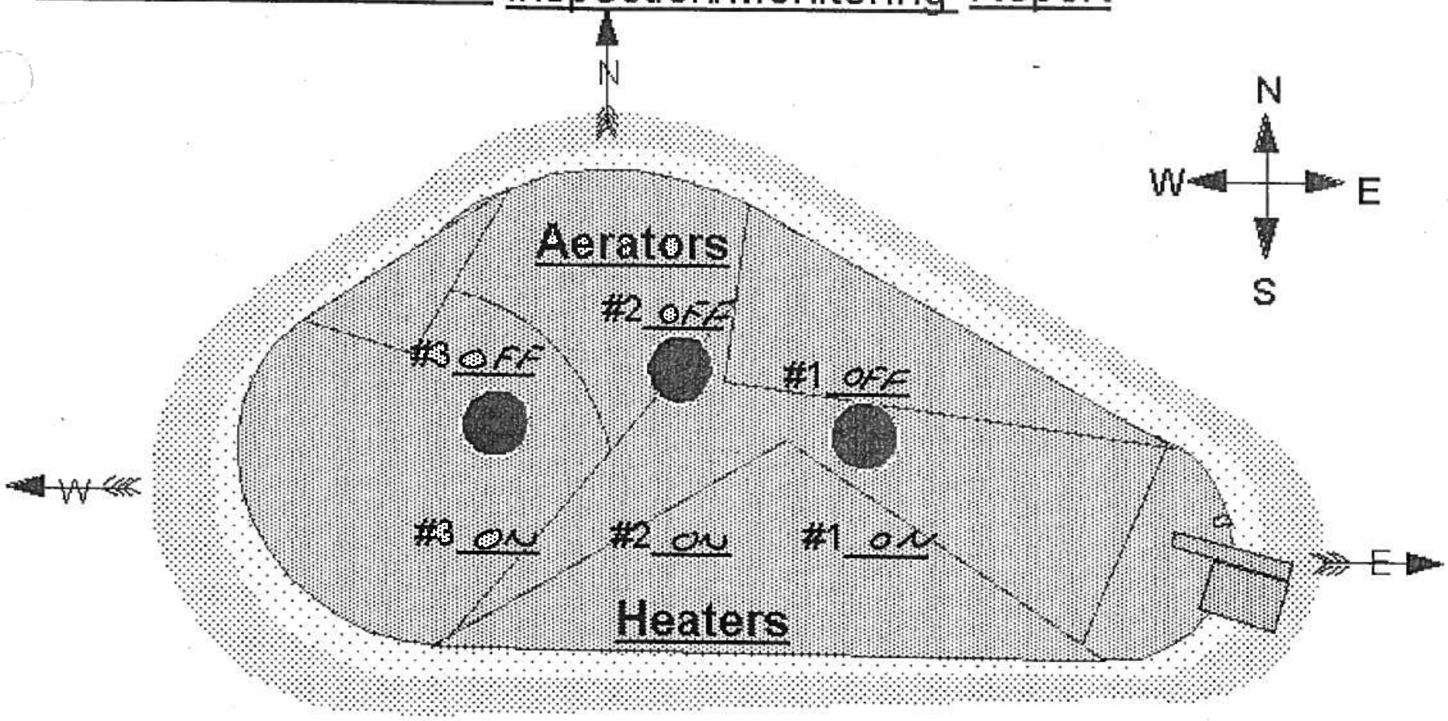
11-15-10
Date

Dave Amaro
Supervisor Review

11-15-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 14.1
Oxygen 12
pH 9.23
Time 1330

Water Level +3"
Water Meter-Stop 6872294
Water Meter-Start 6872294

Water Added Ø
Air Temp. 18.3
Wind Direction E-W

COLOR----

Green ____
Green Brown ____
Brown Green ____
Brown ✓

ODOR---- SLIGHT

East-

Water Temp 14.4
Oxygen 12
pH 9.21
Time 1330

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

Erosion SOME
Animal Burrows SOME
Weed Control SOME

Percolation Pond

Water Level DRY
Erosion SOME
Animal Burrows SOME
Weed Control SOME

Duane Landrum
Inspected by

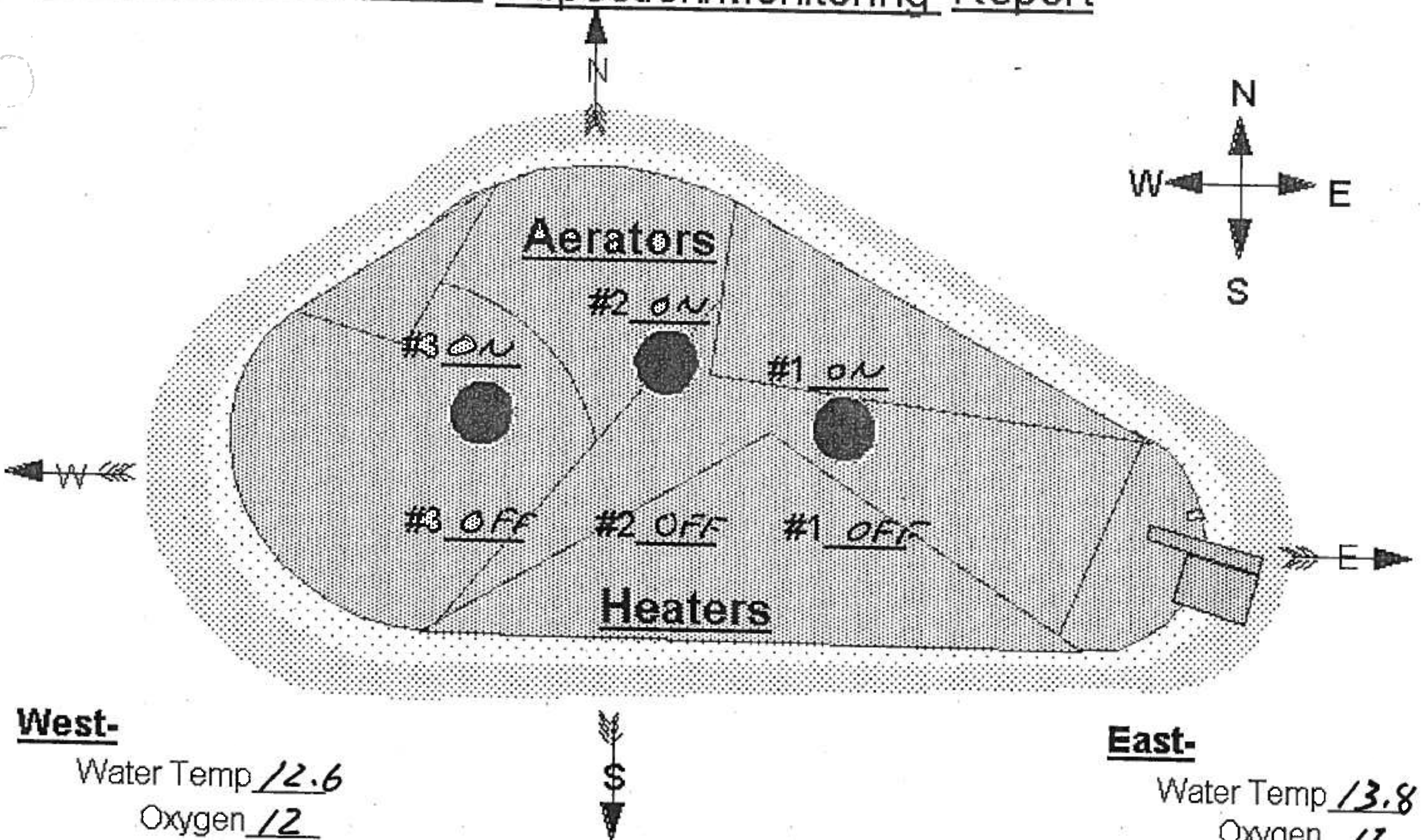
11-18-10
Date

Dan Amaro
Supervisor Review

11-18-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 12.6
Oxygen 12
pH 9.27
Time 1300

Water Level +3 3/4"
Water Meter-Stop 6872274
Water Meter-Start 6872264

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

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- SLIGHT

East-

Water Temp 13.8
Oxygen 12
pH 9.32
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]
Inspected by

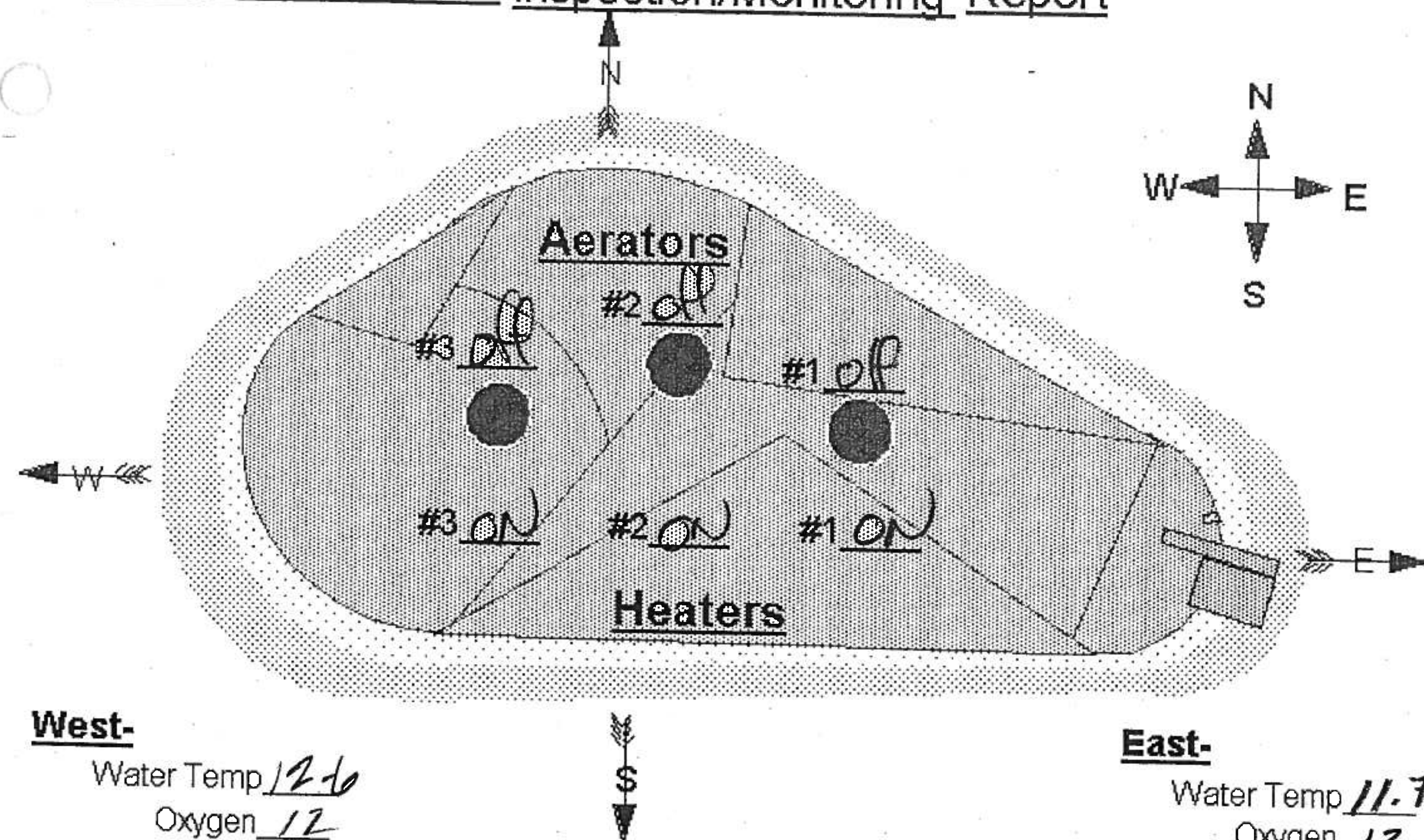
11-22-10
Date

[signature]
Supervisor Review

11-28-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 12.6
Oxygen 12
pH 9.21
Time 1300

East-

Water Temp 11.7
Oxygen 12
pH 9.24
Time 1300

Water Level +4
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 16.7
Wind Direction E+W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----/ NONE

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

Erosion Same
Animal Burrows Same
Weed Control Same

Percolation Pond

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

Dave Arnold
Inspected by

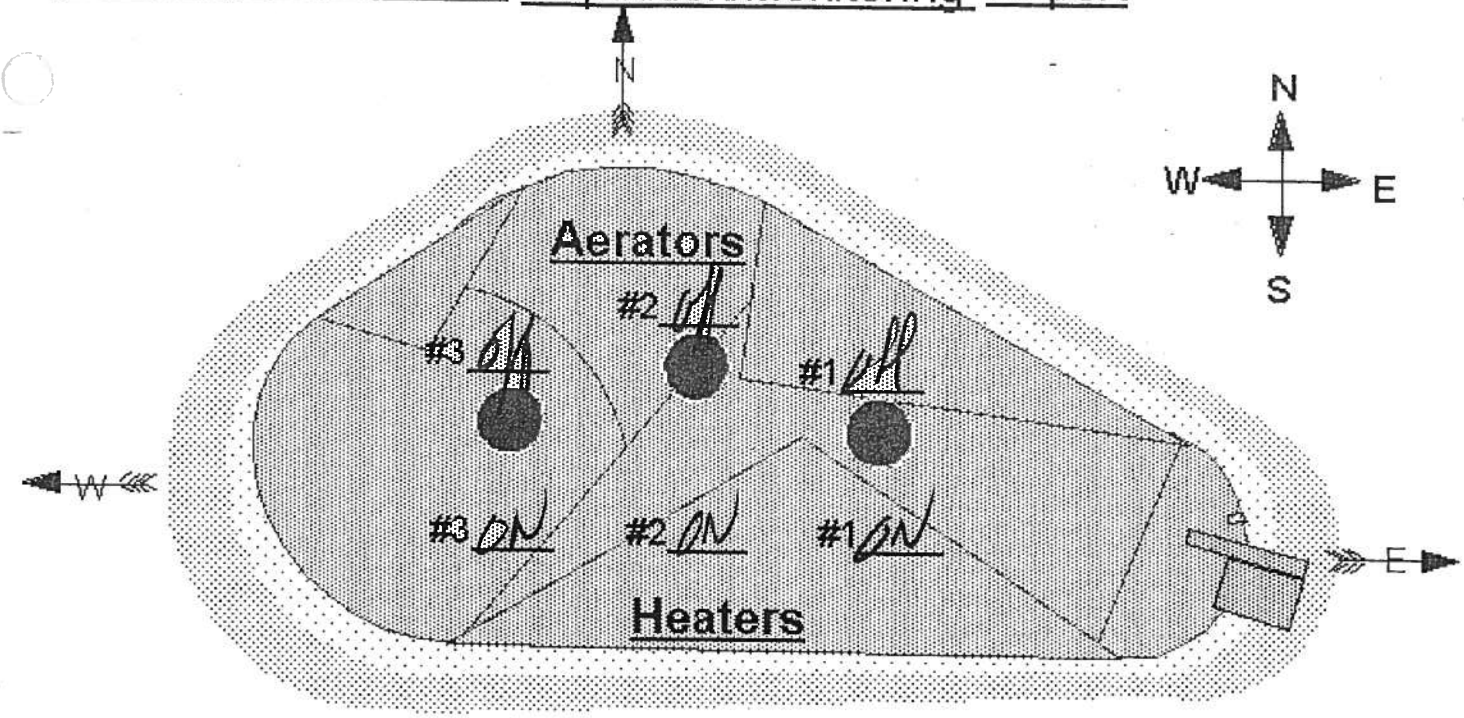
11-25-10
Date

Dave Arnold
Supervisor Review

11-25-10
Date

Comments ________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 12.8
Oxygen 12
pH 9.20
Time 1300

Water Level +3/4
Water Meter-Stop 66722274
Water Meter-Start 66722274

Water Added Ø
Air Temp. 15.4
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----/ NONE

East-

Water Temp 13.6
Oxygen 12
pH 9.34
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 Amaro
Inspected by

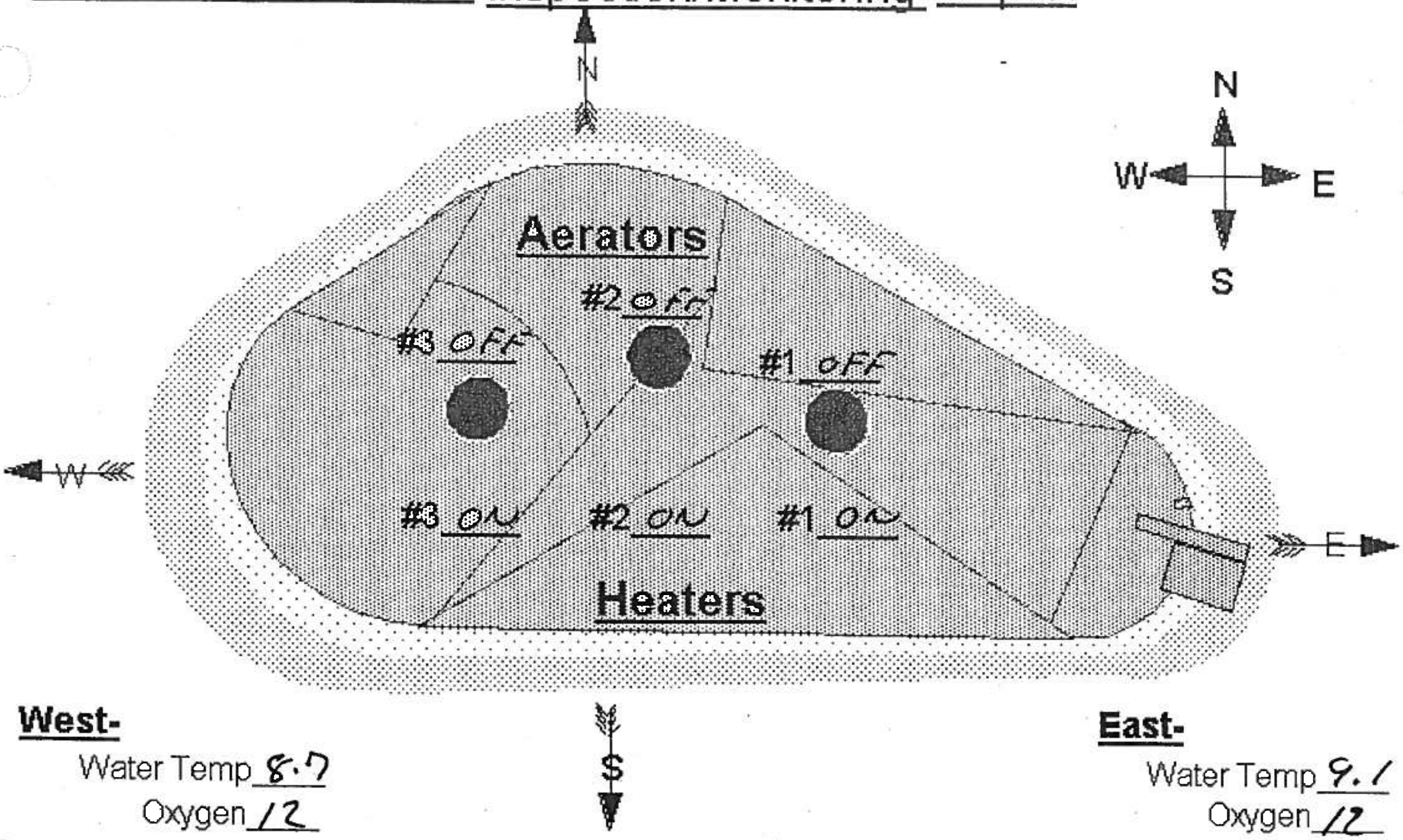
11-29-10
Date

Dave Amaro
Supervisor Review

11-29-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 8.7
Oxygen 12
pH 9.11
Time 1300

Water Level +4"
Water Meter-Stop 6872274
Water Meter-Start 6872274

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

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- slight

East-

Water Temp 9.1
Oxygen 12
pH 9.21
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]
Inspected by

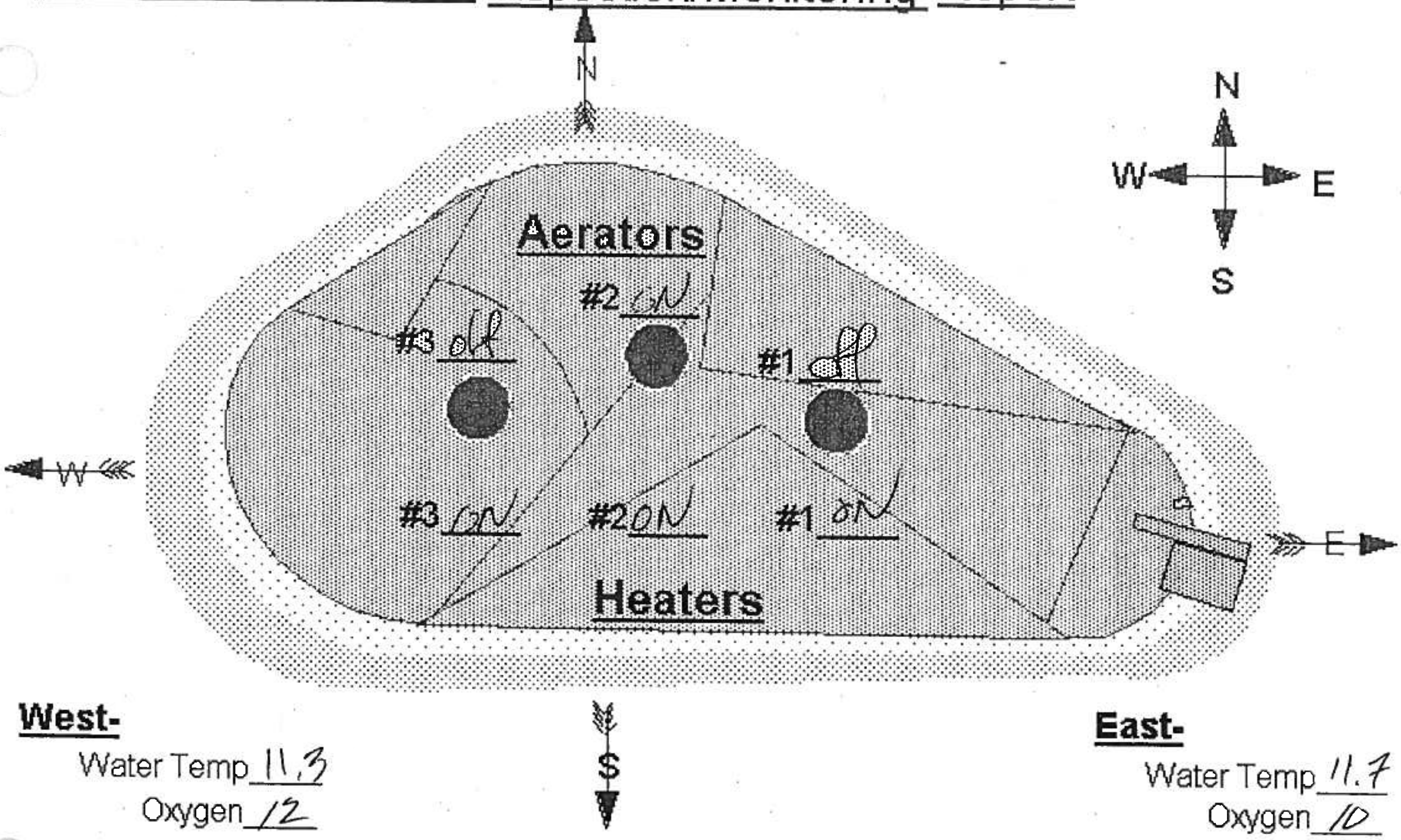
12-2-10
Date

[signature]
Supervisor Review

12-7-10
Date

Comments ____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 11.3
Oxygen 12
pH 9.20
Time 1300

Water Level +4
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 18.0
Wind Direction E.W

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- None

East-

Water Temp 11.7
Oxygen 10
pH 9.19
Time 1300

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

Erosion Som
Animal Burrows Som
Weed Control Som

Percolation Pond

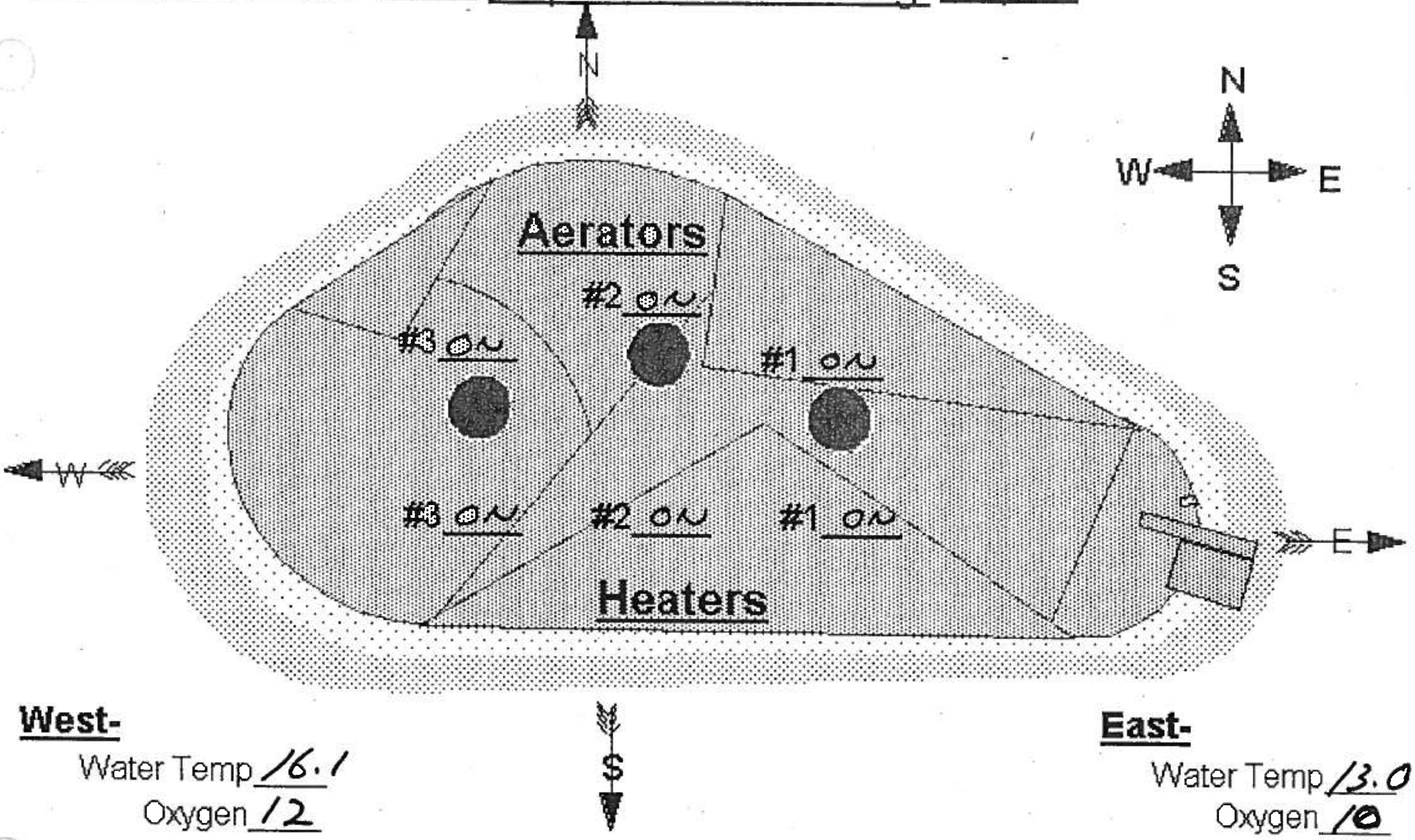
Water Level- Not flowing
Erosion Som
Animal Burrows Som
Weed Control Som

Inspected by [signature] Date 12-6-10

Supervisor Review [signature] Date 12-6-10

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 16.1
Oxygen 12
pH 9.05
Time 1300

East-

Water Temp 13.0
Oxygen 10
pH 9.10
Time 1330

Water Level + 4 1/4"
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added Ø
Air Temp. 15.6
Wind Direction E-W

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-____
Erosion SOME
Animal Burrows SOME
Weed Control SOME

[signature]
Inspected by

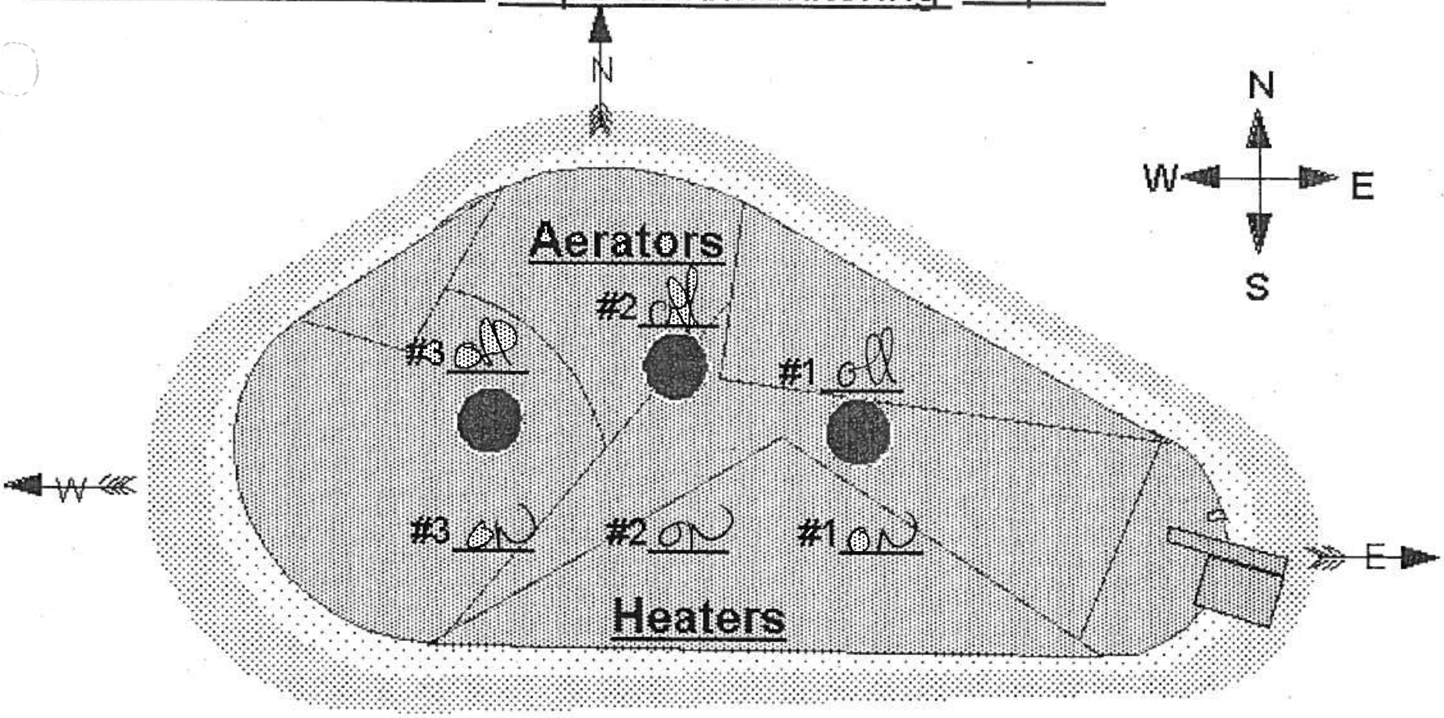
12-7-10
Date

Dave Arnold
Supervisor Review

12-9-10
Date

Comments____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



S

West-

Water Temp 15.7
Oxygen 12
pH 9.07
Time 1600

Water Level +4½
Water Meter-Stop 6872274
Water Meter-Start 6872274

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

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- Slight.

East-

Water Temp 13.4
Oxygen 12
pH 9.12
Time 1600

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion Some
Animal Burrows Some
Weed Control Some

Percolation Pond

Water Level-____
Erosion Some
Animal Burrows Some
Weed Control Some

Dan Anaya
Inspected by

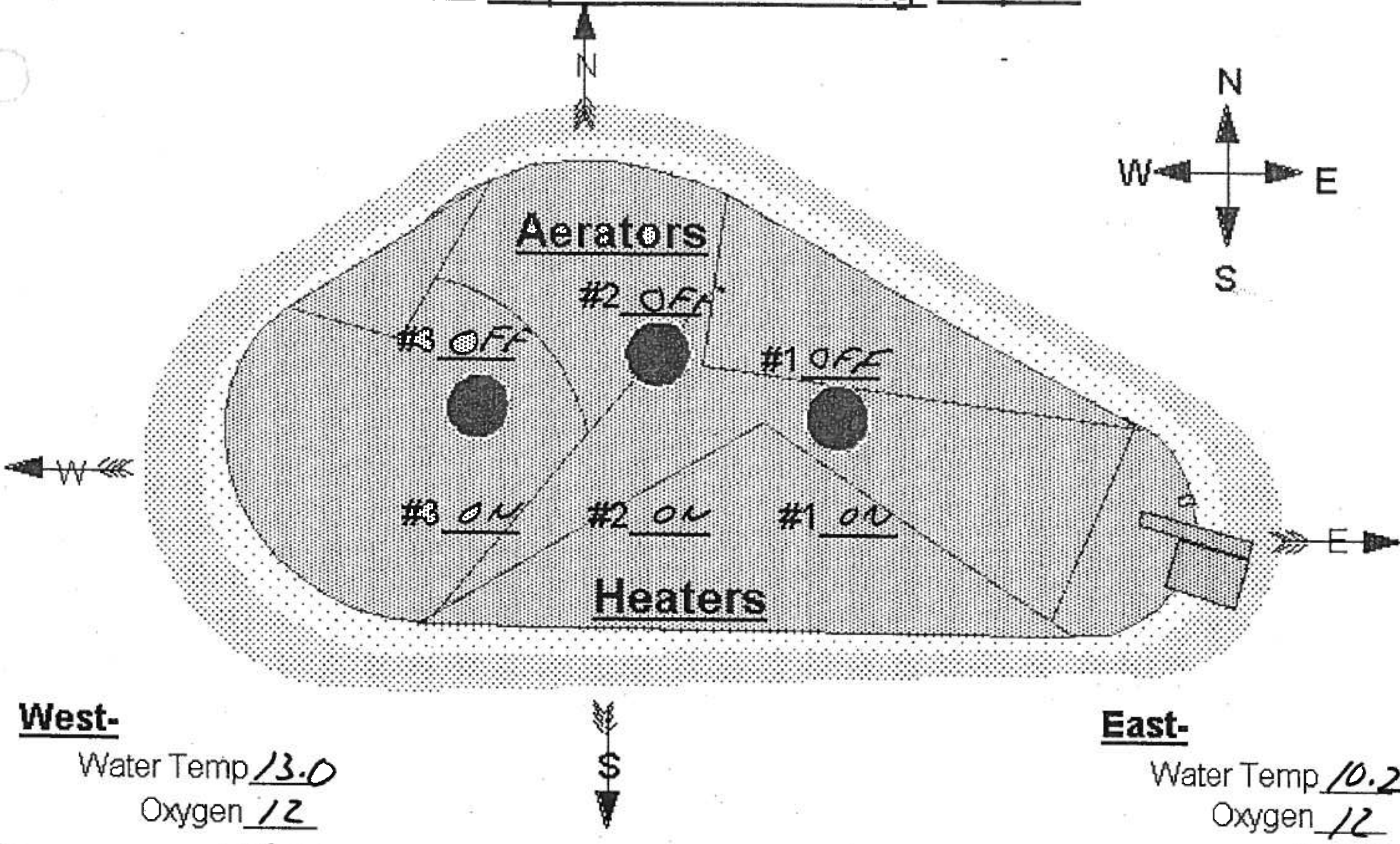
12-13-10
Date

Dan Anaya
Supervisor Review

12-13-10
Date

Comments____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 13.0
Oxygen 12
pH 8.88
Time 1300

Water Level + 4 1/4"
Water Meter-Stop 6872294
Water Meter-Start 6872274

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

East-

Water Temp 10.2
Oxygen 12
pH 8.97
Time 133

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

[signature]
Inspected by

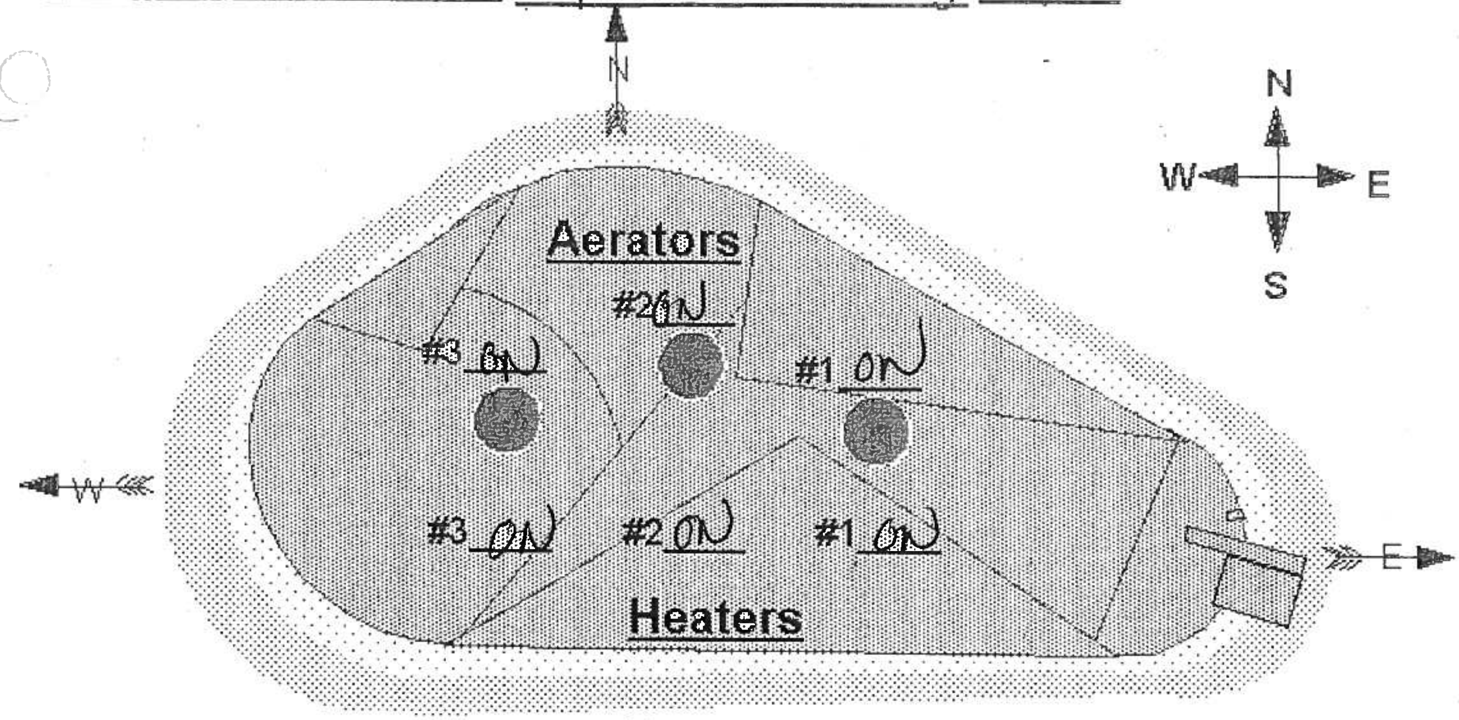
12-16-10
Date

[signature]
Supervisor Review

12-19-10
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 11.3
Oxygen 12
pH 9.01
Time 1300

Water Level +5
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 10.0°C
Wind Direction E+W

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR----/ None

East-

Water Temp 10.8
Oxygen 12
pH 8.99
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

Dave Ammons
Inspected by

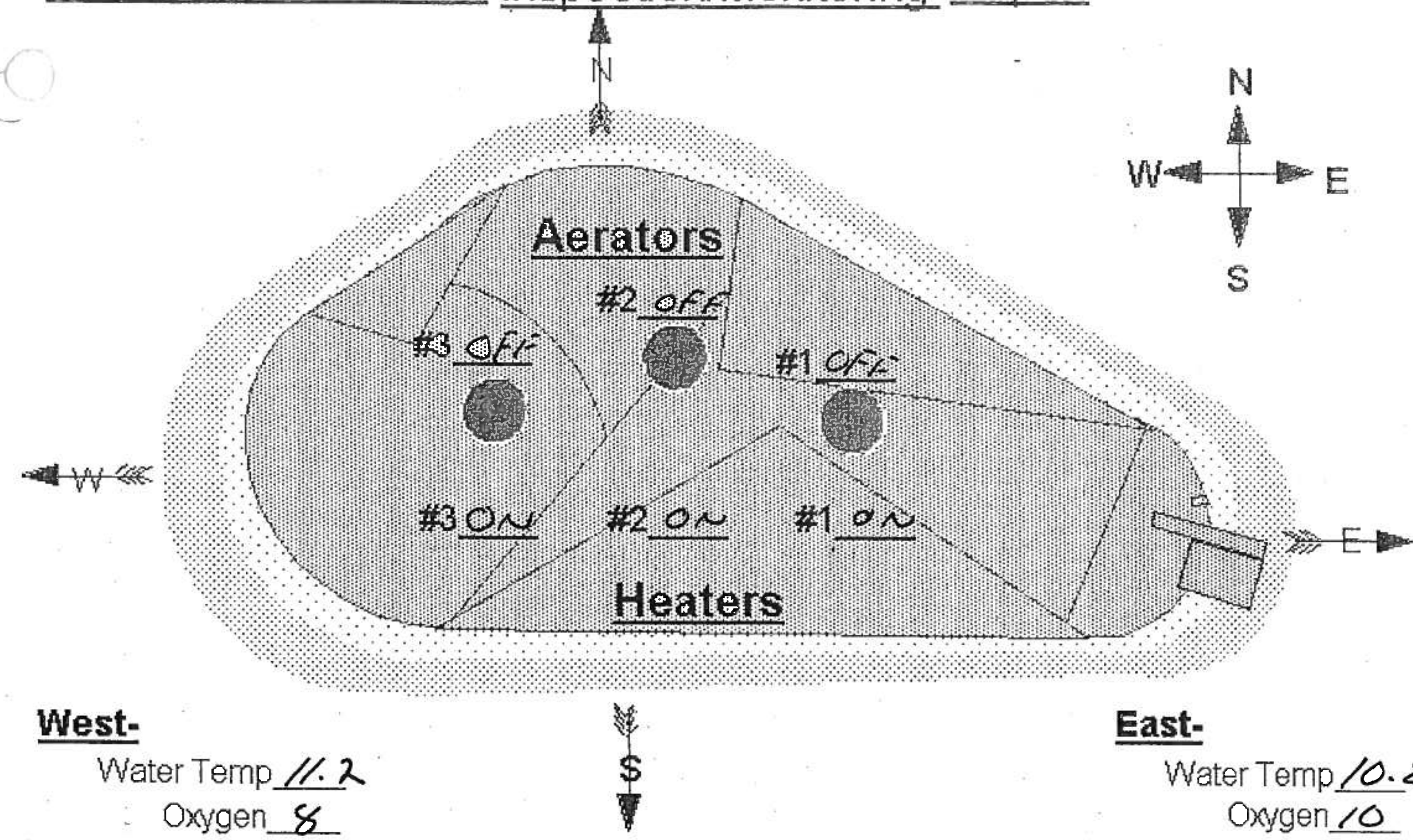
12-20-10
Date

Dave Ammons
Supervisor Review

12-20-10
Date

Comments____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 11.2
Oxygen 8
pH 8.82
Time 1300

Water Level +5''
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added 0
Air Temp. 14.4
Wind Direction W-E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR----1

East-

Water Temp 10.2
Oxygen 10
pH 8.76
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]
Inspected by

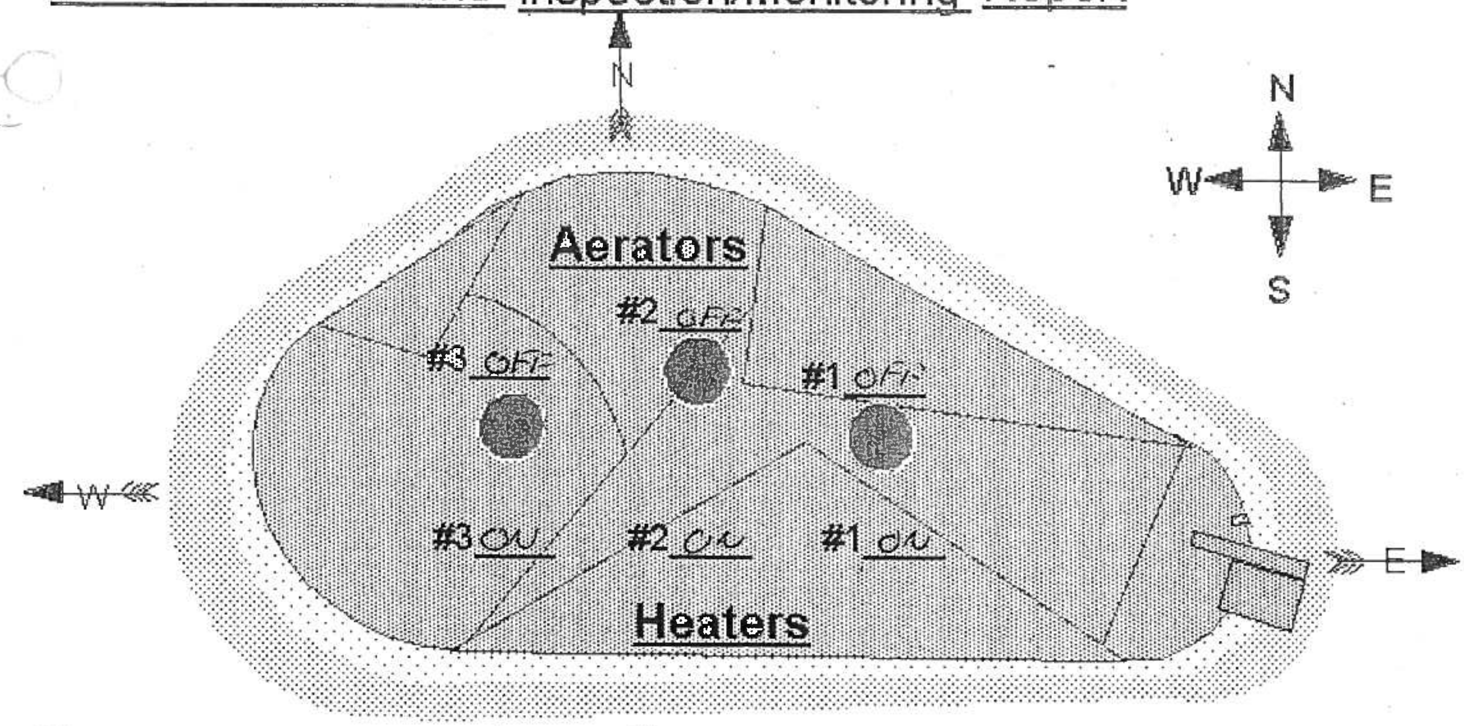
12-27-10
Date

Dave Armbro
Supervisor Review

1-2-10
Date

Comments ____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 10.8
Oxygen 10
pH 8.80
Time 1300

East-

Water Temp 10.8
Oxygen 10
pH 8.77
Time 1330

Water Level +5''
Water Meter-Stop 6872294
Water Meter-Start 6872294
Water Added Ø
Air Temp. 14.1
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

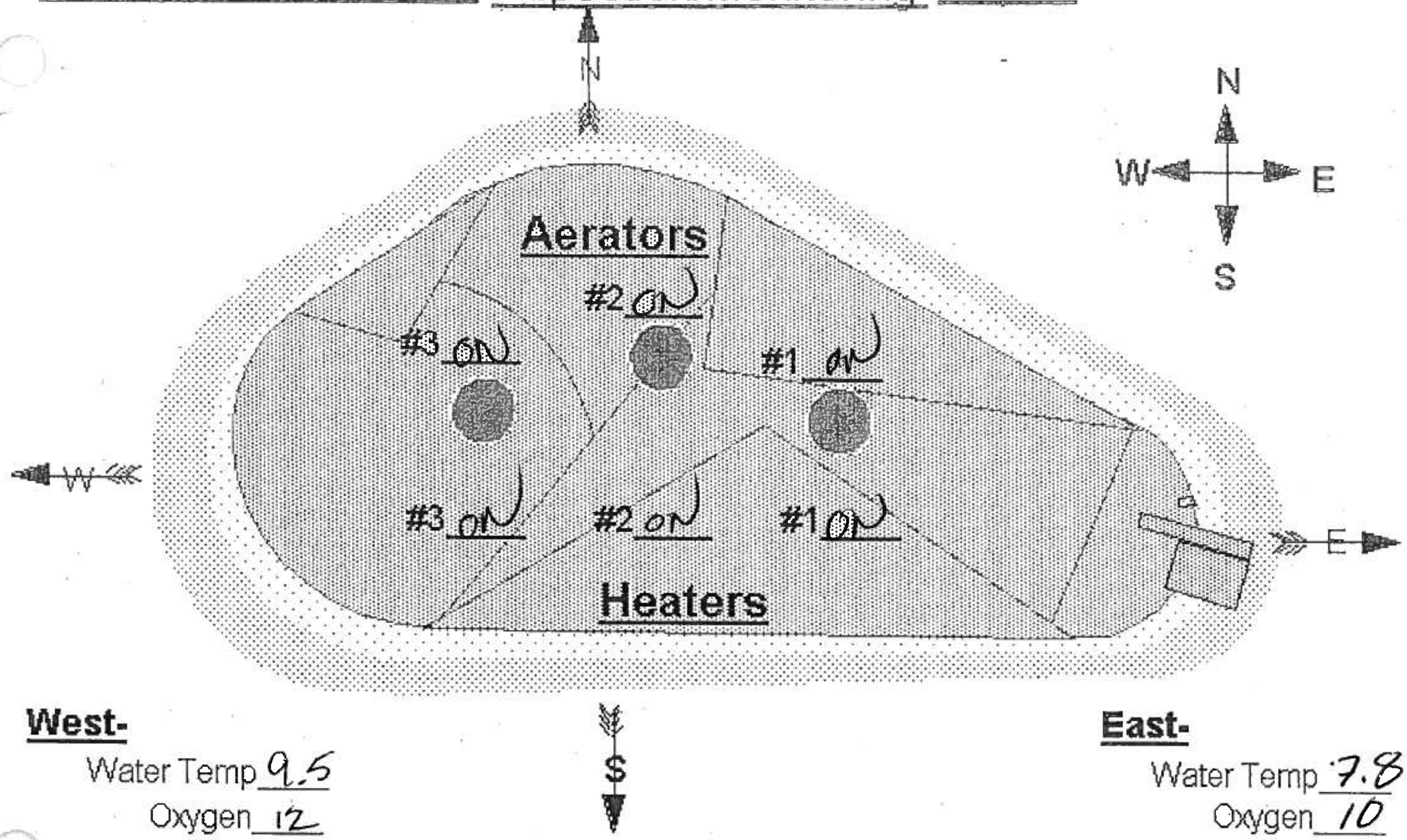
Water Level- NOT FLOWING
Erosion SOME
Animal Burrows SOME
Weed Control SOME

[signature]
Inspected by — Date 12-30-10

[signature]
Supervisor Review — Date 1-2-10

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 9.5
Oxygen 12
pH 8.69
Time 1300

Water Level +6½
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added Ø
Air Temp. 10°C
Wind Direction E to W

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR----/ None

East-

Water Temp 7.8
Oxygen 10
pH 8.69
Time 1300

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion SOM
Animal Burrows SOM
Weed Control SOM

Percolation Pond

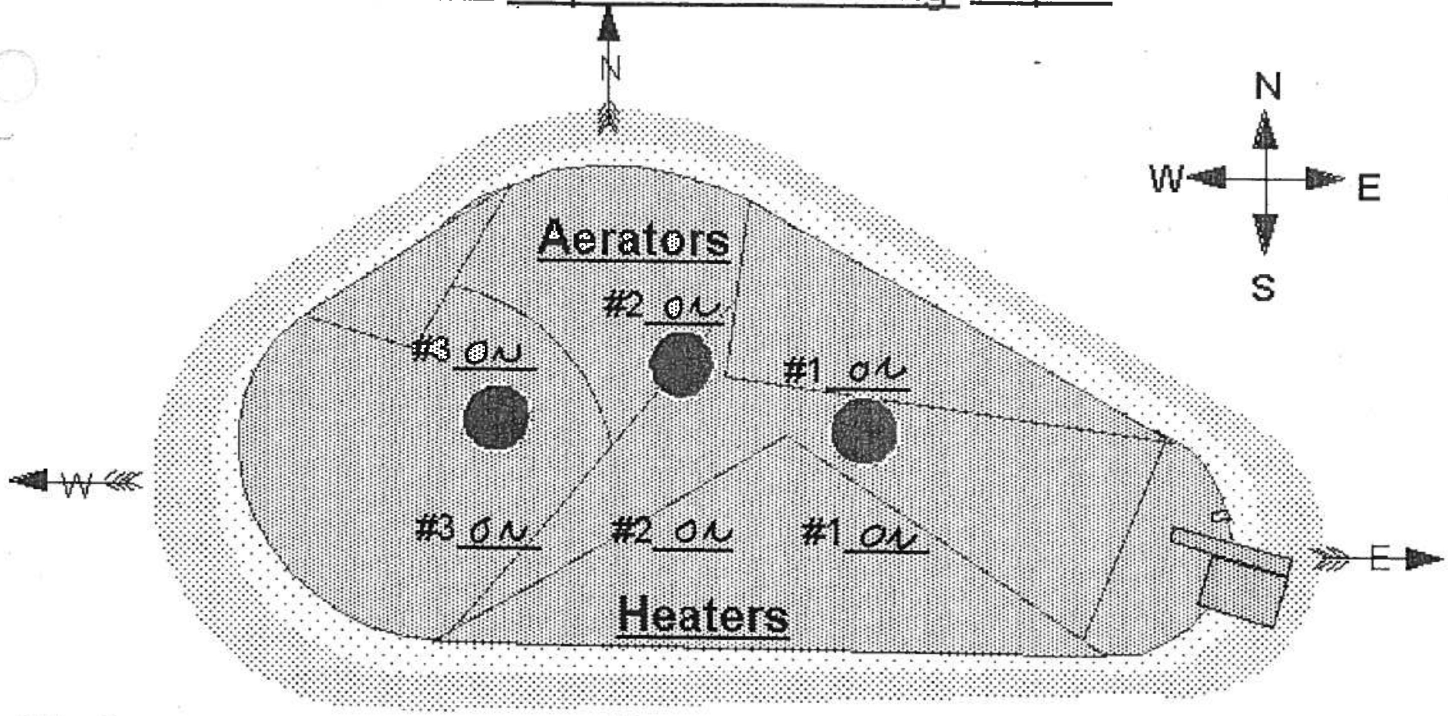
Water Level- Not flowing
Erosion SOM
Animal Burrows SOM
Weed Control SOM

[signature]
Inspected by
1-3-11
Date

[signature]
Supervisor Review
1-3-11
Date

Comments____________________

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 6.2
Oxygen 12
pH 8.75
Time 1300

Water Level + 5½"
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added Ø
Air Temp. 2.8
Wind Direction W-E

COLOR----

Green ✓
Green Brown____
Brown Green____
Brown____

ODOR---- 1 SLIGHT

East-

Water Temp 7.3
Oxygen 12
pH 8.71
Time 1330

Common Bacterium-Per Drop____
Activated Sludge____
Glass Tube Test ✓

Erosion some
Animal Burrows some
Weed Control some

Percolation Pond

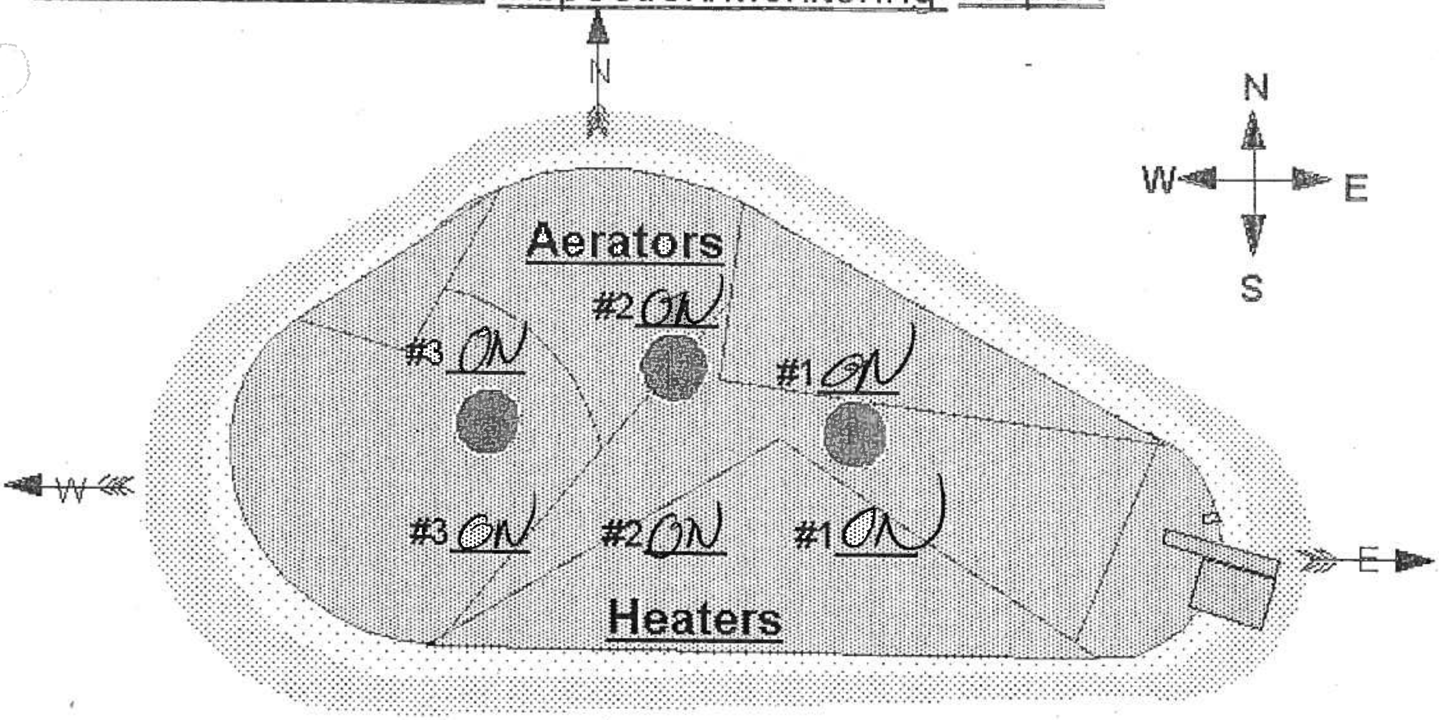
Water Level- NOT Flowing
Erosion some
Animal Burrows some
Weed Control some

Inspected by [signature]   Date 1-6-11

Supervisor Review [signature]   Date 01-09-11

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 6.1
Oxygen 12
pH 9.61
Time 1300

Water Level +5
Water Meter-Stop 6872274
Water Meter-Start 6872274.

Water Added Ø
Air Temp. 8.9
Wind Direction W to E

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- Slight.

East-

Water Temp 7.0
Oxygen 12
pH 8.63
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

Dave Annono
Inspected by

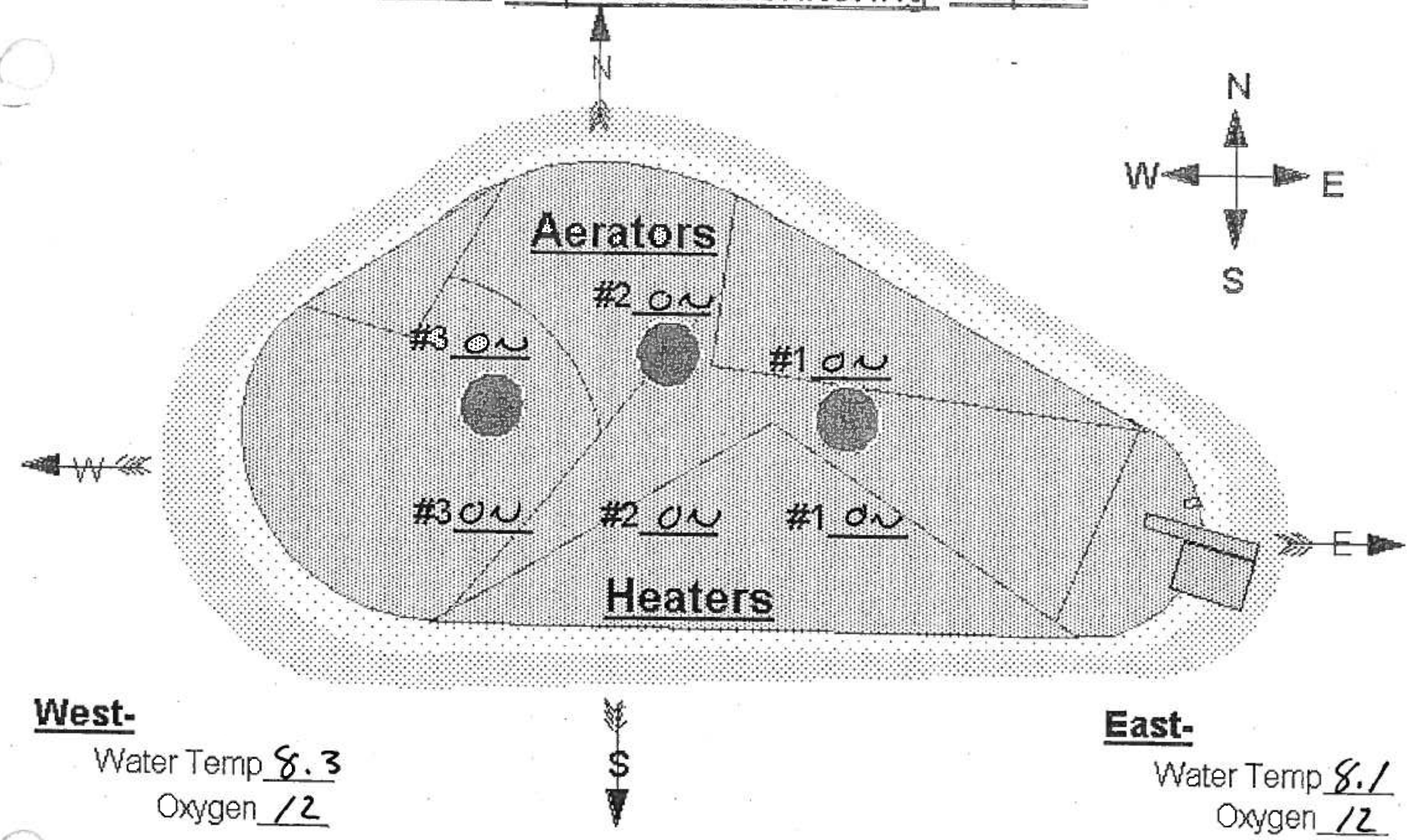
1-10-11
Date

Dave Annono
Supervisor Review

1-10-11
Date

Comments ____

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 8.3
Oxygen 12
pH 8.67
Time 1400

Water Level +7"
Water Meter-Stop 6872274
Water Meter-Start 6872274

Water Added Ø
Air Temp. 12.2
Wind Direction N-S

COLOR----

Green ✓
Green Brown ____
Brown Green ____
Brown ____

ODOR---- 1 SLIGHT

East-

Water Temp 8.1
Oxygen 12
pH 8.52
Time 1430

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

Erosion ____
Animal Burrows ____
Weed Control ____

Percolation Pond

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

[signature]
Inspected by

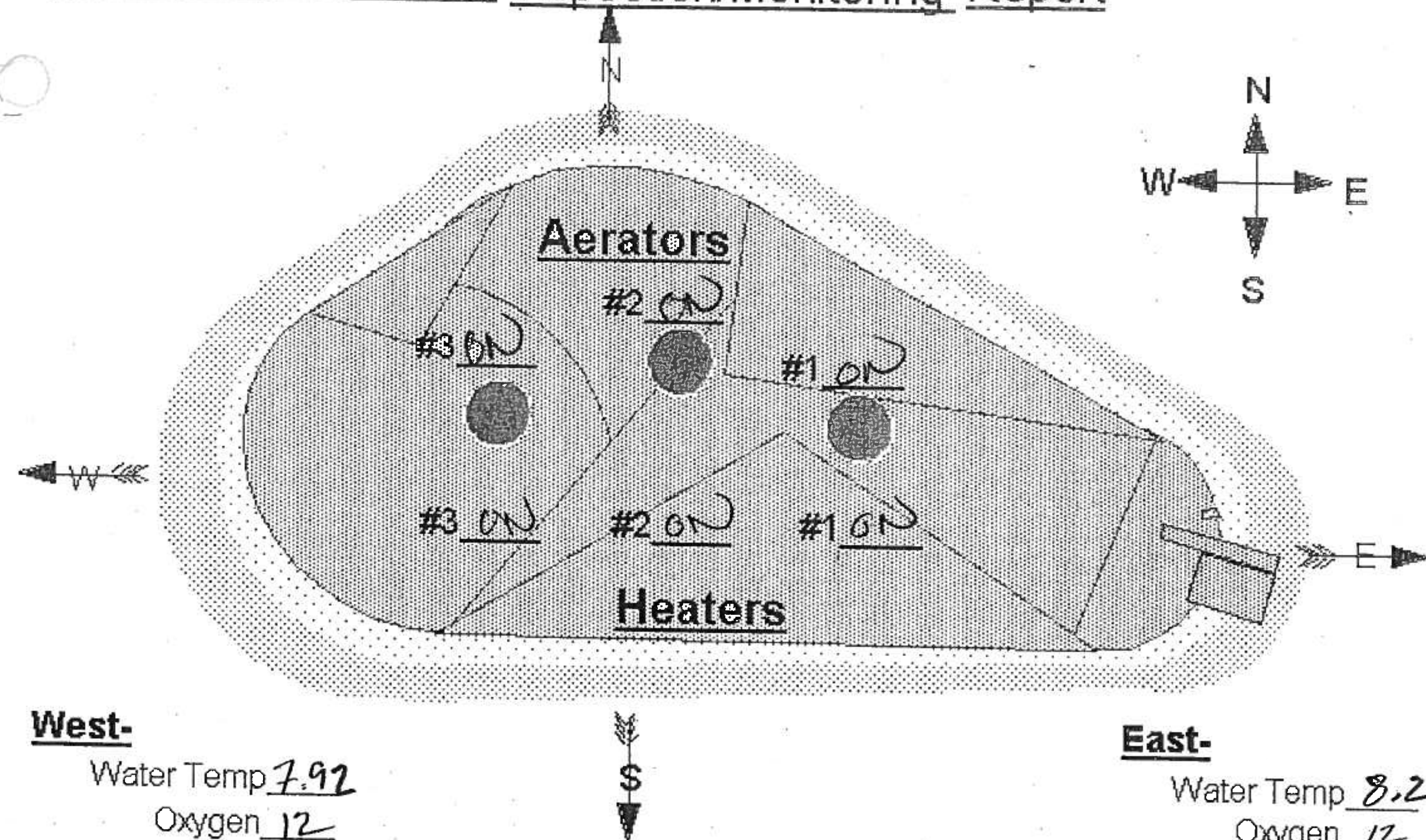
1-13-10
Date

DAVE ARMSTRONG [signature]
Supervisor Review

1-13-10
Date

Comments

Site 300 Sewer Pond- Inspection/Monitoring Report



West-

Water Temp 7.92
Oxygen 12
pH 7.92
Time 1300

Water Level +7"
Water Meter-Stop 10872274
Water Meter-Start 10872274

Water Added Ø
Air Temp. 13.9
Wind Direction N-S

East-

Water Temp 8.2
Oxygen 12
pH 8.54
Time 1300

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 flow
Erosion Som
Animal Burrows Some
Weed Control Som

Dave Anderson
Inspected by

1-17-11
Date

Dave Anderson
Supervisor Review

1-17-11
Date

Comments

All Ground Water Sampling Data

WGMD

Target Sample Date: 28-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

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

DATE: 28-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19130

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

SCREENED INTERVAL: 18.30 - 28.30 PUMP INTAKE DEPTH: 26.30

DEPTH OF CASING: 30.10 CASING DIAMETER: 4.50

DEPTH TO WATER: 12.90 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 17.20 CASING VOL (Gal/Time): 14.2 x 3cv = 42.6

TIME PUMP ON: 0944 INITIAL FLOW RATE (Q=GPM): 3.2

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0949		14.2	1	7.56	22.7	1509	109	1	12.95
0953		28.4	2	7.37	22.3	1516	92	1	13.10
0957		42.6	3	7.35	22.1	1515	89	1	13.10
0959				7.32	22.0	1517	86	1	
1001				7.30	21.9	1518	84		

METER	SERIAL #	CALIBRATED
pH :	60716KK	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-7ES / 300ES TIME COLLECTED: 1005

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250ml 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~~	~~SM9221YSHO~~	~~1~~	~~250 mL Sterilized Polyethylene~~

Added 2.0 oz of CL

~~Purged on to ground~~

Purged into Barrell

Revision: 02/05/2010

All Ground Water Sampling Data

Target Sample Date: 29-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WGMD

WELL ID: W-7ES AREA INFO: 8300/GSA/CGSA

DATE: 29-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19130

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

SCREENED INTERVAL: 18.30 - 28.30 PUMP INTAKE DEPTH: 26.30

DEPTH OF CASING: 30.10 CASING DIAMETER: 4.50

DEPTH TO WATER: 12.79 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 17.31 CASING VOL (Gal/Time): 14.3 x 3.0 = 42.9

TIME PUMP ON: 0917 INITIAL FLOW RATE (Q=GPM): 3.0

TIME PUMP OFF: 0937 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0922		14.3	1	7.47	21.4	1535	150	1	13.08
0926		28.6	2	7.41	21.6	1528	141	1	13.10
0930		42.9	3	7.43	21.7	1526	133	1	13.10
0932				7.40	21.7	1526	132	1	
0934				7.40	21.7	1525	129	1	

METER	SERIAL #	CALIBRATED
pH :	607144	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: CGSAFB QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 0937

SAMPLE ID (VERIFY): W-7ES/3VES TIME COLLECTED: 0937

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	1	250ml 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

No sample

Purged to Barrell

Evacuated all CC

Revision: 02/05/2010

All Ground Water Sampling Data

WGMID

Target Sample Date: 27-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

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

DATE: 27-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21008

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

SCREENED INTERVAL: 18.30 - 28.30 PUMP INTAKE DEPTH: 26.30

DEPTH OF CASING: 30.10 CASING DIAMETER: 4.50

DEPTH TO WATER: 16.42 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 13.68 CASING VOL (Gal/Time): 11.3 x 3cv = 33.9 Gal

TIME PUMP ON: 1013 INITIAL FLOW RATE (Q=GPM): 3.0

TIME PUMP OFF: 1031 MEASURED BY:FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1017		11.3	1	7.30	22.6	1600	-33	1	16.61
1020		22.6	2	7.32	22.6	1597	-18	1	16.61
1024		33.9	3	7.35	22.6	1599	-12	1	16.63
1026				7.33	22.7	1596	-18	1	
1028				7.26	22.7	1599	-21	1	

METER SERIAL # CALIBRATED
pH : 604397 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG 3CMP
SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: CGSAFB QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1031

SAMPLE ID (VERIFY): W-7ES/ 3VES TIME COLLECTED: 1031

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

All Ground Water Sampling Data

Target Sample Date: 28-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

WGMD

WELL ID: W-7ES AREA INFO: 8300/GSA/CGSA

DATE: 28-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21008

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

SCREENED INTERVAL: 18.30 - 28.30 PUMP INTAKE DEPTH: 26.30

DEPTH OF CASING: 30.10 CASING DIAMETER: 4.50

DEPTH TO WATER: 16.44 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 13.66 CASING VOL (Gal/Time): 11.2 x 3 = 33.6 Gal

TIME PUMP ON: 1044 INITIAL FLOW RATE (Q=GPM): 3.0 Q

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1048		11.2	1	7.34	22.4	1610	7	1	16.60
1051		22.4	2	7.33	22.7	1599	19	1	16.63
1055		33.6	3	7.34	22.7	1602	40	1	16.60
1057				7.34	22.7	1598	38	1	
1059				7.33	22.6	1599	38	1	

METER SERIAL # CALIBRATED
pH : 604347 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG 3CMP
SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: CGSAFB QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1102

SAMPLE ID (VERIFY): W-7ES / 3VES TIME COLLECTED: 1102

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

* Checked strips against liquid drops
* Evaluation done with E. Walter.
* Evacuated all CL

Revision: 02/05/2010

All Ground Water Sampling Data

Target Sample Date: 28-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WGMD

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

DATE: 28-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19130

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

SCREENED INTERVAL: 19.48 - 22.48 INTAKE DEPTH: 0.00

DEPTH OF CASING: 22.48 CASING DIAMETER: 4.50

DEPTH TO WATER: 12.66 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 9.82 CASING VOL (Gal/Time): 8.1 x 3cv = 24.3

TIME PUMP ON: 1026 INITIAL FLOW RATE (Q=GPM): 1.2

TIME PUMP OFF: 1057 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1033		8.1	1	7.62	22.8	1581	79	1	12.90
1041		16.2	2	7.45	22.6	1589	72	1	12.92
1049		24.3	3	7.40	22.6	1591	63	1	12.96
1051				7.38	22.1	1592	59		
1053				7.40	22.1	1590	58		

METER SERIAL # CALIBRATED
pH : 607144 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3MRP
SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: W-75Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1057

SAMPLE ID (VERIFY): W-7PS/3023 TIME COLLECTED: 1057

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250ml 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~~

No samples

MJ

Added 2.0 oz of CC
Purged into Barrell

NOTE:
Purge rate/time: N/A since est_sus_flow = 0
Purge Volume: 23.7900009 gal.
Revision: 02/05/2010

All Ground Water Sampling Data

Target Sample Date: 29-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WGMD

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

DATE: 29-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19130

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

SCREENED INTERVAL: 19.48 - 22.48 INTAKE DEPTH: 0.00

DEPTH OF CASING: 22.48 CASING DIAMETER: 4.50

DEPTH TO WATER: 12.71 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 9.77 CASING VOL (Gal/Time): 8.0 x 3cv = 24 Gal

TIME PUMP ON: 0949 INITIAL FLOW RATE (Q=GPM): 1.0

TIME PUMP OFF: 1020 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0957		8	1	7.48	22.4	1598	122	1	12.91
1005		16	2	7.40	22.8	1594	121	1	12.92
1013		24	3	7.44	23.0	1599	112	1	12.93
1015				7.38	22.7	1600	111		
1017				7.39	22.6	1603	100		

METER	SERIAL #	CALIBRATED
pH :	607144	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3MRP
SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: W-75Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1218

SAMPLE ID (VERIFY): W-7PS/3VES TIME COLLECTED: 1020

PROJECT	/ ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	1	250ml 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

No sample

Purged into Barrell

Evacuated all CC

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

Revision: 02/05/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 26-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

WELL ID: W-7PS AREA INFO: 8300/GSA/CGSA

DATE: 26-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21007

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

SCREENED INTERVAL: 19.48 - 22.48 INTAKE DEPTH: 0.00

DEPTH OF CASING: 22.48 CASING DIAMETER: 4.50

DEPTH TO WATER: 16.00 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 6.48 CASING VOL (Gal/Time): 5.3 x 3cv = 15.9 Gal

TIME PUMP ON: 0817 INITIAL FLOW RATE (Q=GPM): 1.0

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0822		5.3	1	6.99	23.0	1679	22.8	1	16.11
0827		10.6	2	7.30	23.5	1669	-60	1	16.19
0832		15.9	3	7.36	23.7	1669	-63	1	16.21
0834				7.29	23.9	1666	-71	1	
0836				7.28	23.8	1656	-88	1	

METER SERIAL # CALIBRATED
pH : 604347 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG 3CMP
SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: W-76Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1357

SAMPLE ID (VERIFY): W-7PS/ 3VES TIME COLLECTED: 0840

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 CL

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

Revision: 02/05/2010

All Ground Water Sampling Data

Target Sample Date: 27-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

WGMD

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

DATE: 27-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21007

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

SCREENED INTERVAL: 19.48 - 22.48 INTAKE DEPTH: 0.00

DEPTH OF CASING: 22.48 CASING DIAMETER: 4.50

DEPTH TO WATER: 16.03 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 6.45 CASING VOL (Gal/Time): 5.3 X 3cv = 15.9 Gal

TIME PUMP ON: 1042 INITIAL FLOW RATE (Q=GPM): 1.0

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1047		5.3	1	7.32	23.5	1689	567	1	16.30
1053		10.6	2	7.23	23.5	1674	516	1	16.30
1059		15.9	3	7.26	23.7	1668	422	1	16.33
1101				7.27	23.7	1665	407	1	
1103				7.27	23.5	1660	389		

METER SERIAL # CALIBRATED
pH : 604347 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG 3CMP
SAMPLE PRESERVATION/AMT of REAGENT: N/A

QC SAMPLE ID: W-76Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 11~~30~~47

SAMPLE ID (VERIFY): W-7PS/3VES TIME COLLECTED: 1107

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

Evacuated all cl

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

Revision: 02/05/2010

All Ground Water Sampling Data

WGMMD

Target Sample Date: 28-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WELL ID: W-35A-04 AREA INFO: 8300/GSA/CGSA

DATE: 28-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19130

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

SCREENED INTERVAL: 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28

DEPTH OF CASING: 28.57 CASING DIAMETER: 4.50

DEPTH TO WATER: 8.11 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 20.46 CASING VOL (Gal/Time): 16.9 x 3cv = 50.7

TIME PUMP ON: 0900 INITIAL FLOW RATE (Q=GPM): 3.0

TIME PUMP OFF: 0923 MEASURED BY: FLOW METER / GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0906		17	1	7.15	23.1	1466	175	1	8.17
0911		34	2	7.38	22.7	1470	169	1	8.23
0917		51	3	7.33	22.7	1469	162	1	8.26
0919				7.31	22.5	1471	157	1	
0921				7.29	22.4	1472	156		

METER SERIAL # CALIBRATED
pH : 607144 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3MRP
SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-35A-04/3Q65 TIME COLLECTED: 0923

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

Arabel 20 oz w CL
Purged to ground

Revision: 02/05/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 29-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WELL ID: W-35A-04 AREA INFO: 8300/GSA/CGSA

DATE: 29-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19130

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

SCREENED INTERVAL: 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28

DEPTH OF CASING: 28.57 CASING DIAMETER: 4.50

DEPTH TO WATER: 8.11 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 20.46 CASING VOL (Gal/Time): 17 x 3 = 51 Gal

TIME PUMP ON: 0823 INITIAL FLOW RATE (Q=GPM): 2.7

TIME PUMP OFF: 0847 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0829		17	1	6.89	22.2	1484	135	1	08.23
0835		34	2	7.34	22.2	1484	130	1	8.27
0841		51	3	7.36	22.3	1482	139	1	8.32
0843				7.38	22.3	1482	150	1	
0845				7.40	22.3	1482	160		

METER SERIAL # CALIBRATED

pH : 607144 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-35A-04 / 3VES TIME COLLECTED: 0847

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	1	250ml 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

No sample

Evacuated all cL

Purged into Barrell

Revision: 02/05/2010

WAMD

All Ground Water Sampling Data

Target Sample Date: 01-Nov-2010 Month: Norm Qtr: 4 Norm Year: 2010

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

DATE: 01-Nov-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21010

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

SCREENED INTERVAL: 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28

DEPTH OF CASING: 28.57 CASING DIAMETER: 4.50

DEPTH TO WATER: 11.74 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 16.83 CASING VOL (Gal/Time): 13.9 x 3cv = 41.7

TIME PUMP ON: 0947 INITIAL FLOW RATE (Q=GPM): 2.9

TIME PUMP OFF: 1014 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0952		13.9	1	7.42	22.5	1564	95	1	11.82
0957		27.8	2	7.42	22.5	1561	81	1	11.85
1002 ~~09~~		41.7	3	7.45	22.5	1560	83	1	11.85
1004				7.39	22.6	1559	80	1	
1006				7.41	22.4	1563	80	1	

METER	SERIAL #	CALIBRATED
pH :	604347	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3EMG 3CMP

SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-35A-04/3VES TIME COLLECTED: 1014

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	E625	3	1L Amber Glass
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	250mL GLASS-AMBER
~~3EMG~~	FGLSTK	SM9221:SHO	1	250 mL Sterilized Polyethylene

WGMID

All Ground Water Sampling Data

Target Sample Date: 02-Nov-2010 Month: Norm Qtr: 4 Norm Year: 2010

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

DATE: 02-Nov-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21010

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

SCREENED INTERVAL: 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28

DEPTH OF CASING: 28.57 CASING DIAMETER: 4.50

DEPTH TO WATER: 11.79 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 16.78 CASING VOL (Gal/Time): 13.9 x 3cv = 41.7

TIME PUMP ON: 0927 INITIAL FLOW RATE (Q=GPM): 3.0 Q

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0932		13.9	1	7.05	22.7	1561	224	1	11.91
0936		27.8	2	7.31	22.8	1557	104	1	11.91
0941		41.7	3	7.36	22.9	1557	97	1	11.93
0943				7.37	22.9	1556	96	1	
				7.37	22.9	1550	93		

METER	SERIAL #	CALIBRATED
pH :	604347	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3EMG 3CMP

SAMPLE PRESERVATION/AMT of REAGENT: N/A

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

SAMPLE ID (VERIFY): W-35A-04 | 3VES TIME COLLECTED: 0949

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	E625	3	1L Amber Glass
~~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	250mL GLASS-AMBER
3EMG	FGLSTK	SM9221:SHO	1	250 mL Sterilized Polyethylene

Revision: 02/05/2010

Evacuated all CL

All Ground Water Sampling Data

WAMD

Target Sample Date: 30-Nov-2010 Month: Norm Qtr: 4 Norm Year: 2010

WELL ID: W-35A-04 AREA INFO: 8300/GSA/CGSA

DATE: 30-Nov-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21020

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

SCREENED INTERVAL: 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28

DEPTH OF CASING: 28.57 CASING DIAMETER: 4.50

DEPTH TO WATER: 12.32 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 16.25 CASING VOL (Gal/Time): 13.5 x 3cv = 40.5 Gal

TIME PUMP ON: 0851 INITIAL FLOW RATE (Q=GPM): 1.6 Q

TIME PUMP OFF: 1012 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0900		13.5	1	7.36	21.1	1590	132	1	12.38
~~0954~~ 0958		27	2	7.38	21.8	1567	131	1	12.43
~~1004~~ 1007		40.5	3	7.39	21.6	1583	135	1	12.44
1008				7.34	22.0	1571	144	1	
1010				7.33	22.1	1570	147	1	

METER	SERIAL #	CALIBRATED
pH :	609347	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG
SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: W-35A-04 QC LAB(S): FGLSTK QC SAMPLE TIME: 1012

SAMPLE ID (VERIFY): W-35A-04 / 3VES TIME COLLECTED: 1012

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3EMG	FGLSTK	SM9221:SHO	1	250 mL Sterilized Polyethylene

* Chlorinated on 11/29/10 20 oz ocCL

Evacuated all cl on 11/30/10 and sampled.

Revision: 10/29/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 26-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WELL ID: W-25N-20 AREA INFO: 8300/GSA/EGSA

DATE: 26-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19128

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

SCREENED INTERVAL: 14.83 - 29.83 PUMP INTAKE DEPTH: 26.00

DEPTH OF CASING: 30.83 CASING DIAMETER: 4.50

DEPTH TO WATER: 10.60 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 20.23 CASING VOL (Gal/Time): 16.7 x 3cv = 50.1

TIME PUMP ON: 0912 INITIAL FLOW RATE (Q=GPM): 3.0

TIME PUMP OFF: 0938 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0919		16.7	1	7.39	21.5	1489	60 ⟵	⟶ ~~60~~ 1	10.69
0925		33.4	2	7.37	21.3	1495	45 ⟵	⟶ 45 1	10.76
0931		50.1	3	7.39	21.7	1490	49 ⟵	⟶ 49 1	10.79
0933				7.38	21.6	1492	46 ⟵	⟶ 46 1	
0935				7.37	21.5	1495	44 ⟵	⟶ 44 1	

METER	SERIAL #	CALIBRATED
pH :	607124	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-25N-20 / 3VES TIME COLLECTED: 0938

PROJECT	/ ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250ml 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 2.5 oz of CL

Revision: 02/05/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 27-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

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

DATE: 27-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19128

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

SCREENED INTERVAL: 14.83 - 29.83 PUMP INTAKE DEPTH: 26.00

DEPTH OF CASING: 30.83 CASING DIAMETER: 4.50

DEPTH TO WATER: 10.68 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 20.15 CASING VOL (Gal/Time): 16.6 x 3cv=49.8

TIME PUMP ON: 0822 INITIAL FLOW RATE (Q=GPM): 3.0 Q

TIME PUMP OFF: 0844 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0827		16.6	1	7.60	20.4	1508	99	1	10.71
0833		33.2	2	7.67	20.5	1510	103	1	10.72
0838		49.8	3	7.65	20.7	1511	103	1	10.74
0840				7.62	20.6	1510	100	1	
0842				7.63	20.6	1512	100		

METER SERIAL # CALIBRATED
pH : 607144 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3MRP
SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-25N-20/3VES TIME COLLECTED: 0844

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	~~1~~	~~250ml 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

Used Strips to Determine CL Levels

Revision: 02/05/2010

All Ground Water Sampling Data Retest

WGMD

Target Sample Date: 29-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

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

DATE: 29-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19131

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

SCREENED INTERVAL: 14.83 - 29.83 PUMP INTAKE DEPTH: 26.00

DEPTH OF CASING: 30.83 CASING DIAMETER: 4.50

DEPTH TO WATER: 10.72 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 20.11 CASING VOL (Gal/Time): 16.6 x 3cc = 49.8

TIME PUMP ON: 1100 INITIAL FLOW RATE (Q=GPM): 3.0

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1106		16.6	1	7.81	22.9	1472	79	1	10.83
1111		33.2	2	7.47	22.0	1487	77	1	10.83
1116		49.8	3	7.46	22.3	1480	70	1	10.83
1118				7.45	22.3	1480	72		
1120				7.45	22.3	1079	70		

METER SERIAL # CALIBRATED

pH : 607144 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: W-25N-20 QC LAB(S): BCLABS-BAK QC SAMPLE TIME:

SAMPLE ID (VERIFY): W-25N-20 / 3VES TIME COLLECTED: 1123

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3MRP	BCLABS-BAK	E218.4B	1	250 mL Polyethylene
3MRP	BCLABS-BAK	E218.4B:FILTER	0	250 mL Polyethylene

Retested for C6 due to faulty instrument at lab on 7/26 run.

Purged to ground

Revision: 02/05/2010

All Ground Water Sampling Data

WAMID

Target Sample Date: 25-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

WELL ID: W-25N-20 AREA INFO: 8300/GSA/EGSA

DATE: 25-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21006

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

SCREENED INTERVAL: 14.83 - 29.83 PUMP INTAKE DEPTH: 26.00

DEPTH OF CASING: 30.83 CASING DIAMETER: 4.50

DEPTH TO WATER: 13.74 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 17.09 CASING VOL (Gal/Time): 14.1 x 3cv = 42.3

TIME PUMP ON: 0930 INITIAL FLOW RATE (Q=GPM): 3.0 Q

TIME PUMP OFF: 0953 MEASURED BY: FLOW METER / GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0934		14.1	1	7.44	22.4	1597	-32	1	13.90
0939		28.2	2	7.41	22.7	1588	-6	1	13.91
0944		42.3	3	7.45	22.7	1590	5	1	13.90
0947				7.40	22.8	1590	4		
0949				7.39	23.0	1586	6		

METER	SERIAL #	CALIBRATED
pH :	604347	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3EMG

SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-25N-20 / 3wks TIME COLLECTED: 0953

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~~

Added 2.5 oz of CC

All Ground Water Sampling Data

WGMD

Target Sample Date: 26-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

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

DATE: 26-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21006

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

SCREENED INTERVAL: 14.83 - 29.83 PUMP INTAKE DEPTH: 26.00

DEPTH OF CASING: 30.83 CASING DIAMETER: 4.50

DEPTH TO WATER: 13.75 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 17.08 CASING VOL (Gal/Time): 14.1 x 3cv = 42.3

TIME PUMP ON: 0936 INITIAL FLOW RATE (Q=GPM): 3.0 a

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0941		14.1	1	7.44	22.3	1599	-47	1	13.81
0945		28.2	2	7.48	22.7	1594	-0	1	13.83
0950		42.3	3	7.47	22.8	1594	-0	1	13.83
0952				7.45	22.8	1590	-3	1	
0954				7.42	23.1	1587			

METER SERIAL # CALIBRATED
pH : 604347 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG
SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-25N-20/3VES TIME COLLECTED: 0957

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

Evacuated all cl

All Ground Water Sampling Data

WGMID

Target Sample Date: 26-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WELL ID: W-25N-22 AREA INFO: 8300/GSA/EGSA

DATE: 26-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19128

PURGE METHOD/SAMPLE METHOD: GF / ~~LVES~~ 3VES CONTAMINANT PRESENT: TCE-1.2

SCREENED INTERVAL: 20.81 - 30.81 PUMP INTAKE DEPTH: 31.60

DEPTH OF CASING: 31.31 DISCHARGE LINE: ~~1~~ 4"

DEPTH TO WATER: 20.13 VOLUME FACTOR: ~~0.041~~ .65

WATER IN CASING (ft): 11.18 CASING VOL (Gal/Time): ~~.465~~ 7.3x3vo=22 Gal

TIME PUMP ON: 1041 INITIAL FLOW RATE (Q=GPM): 1.0

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1049		7.3	1	7.43	24.2	~~17~~ 1728	-110	1	20.93
1056		14.6	2	7.19	23.6	1709	-78	1	21.08
1102		22	3	7.23	23.4	1725	-57	1	21.27
1104				7.28	23.1	1730	-64	1	
1106				7.31	23.0	1737	-65		

METER SERIAL # CALIBRATED

pH : 607144 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: W-25N-48Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: ~~1111~~ 1311

SAMPLE ID (VERIFY): W-25N-22/3VES TIME COLLECTED: 1111

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250ml 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~~

3ves not Lves

Revision: 02/05/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 27-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WELL ID: W-25N-22 AREA INFO: 8300/GSA/EGSA

DATE: 27-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19129

PURGE METHOD/SAMPLE METHOD: GF / ~~LVES~~ 3VES CONTAMINANT PRESENT: TCE-1.2

SCREENED INTERVAL: 20.81 - 30.81 PUMP INTAKE DEPTH: 31.60

DEPTH OF CASING: 31.31 DISCHARGE LINE: ~~1~~ 4"

DEPTH TO WATER: 20.14 VOLUME FACTOR: ~~0.041~~ .65

WATER IN CASING (ft): 11.17 CASING VOL (Gal/Time): 7.3 x 3cv = 21.9 Gal

TIME PUMP ON: 0929 INITIAL FLOW RATE (Q=GPM): 1.0

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0935		7.3	1	7.70	22.9	1731	43	1	21.06
0942		14.6	2	7.54	22.7	1728	35	1	21.24
0949		21.9	3	7.60	22.8	1723	-6	1	21.28
0951				7.64	22.7	1730	-0	1	
0953				7.57	22.7	1733	-0	1	

METER	SERIAL #	CALIBRATED
pH :	607144	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: W-25N-48Y QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1223

SAMPLE ID (VERIFY): W-25N-22 / 3VES TIME COLLECTED: 0955

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	~~1~~	~~250ml 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

3ves not Lves

Purged to Barrell

Evacuated all cL

Revision: 02/05/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 26-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WELL ID: W-25N-23 AREA INFO: 8300/GSA/EGSA

DATE: 26-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19128

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

SCREENED INTERVAL: 21.81 - 36.81 PUMP INTAKE DEPTH: 36.50

DEPTH OF CASING: 38.11 DISCHARGE LINE: ~~1~~ 4"

DEPTH TO WATER: 17.64 VOLUME FACTOR: ~~0.041~~ .65

WATER IN CASING (ft): 20.47 CASING VOL (Gal/Time): 13.3 x 3v = 39.9

TIME PUMP ON: 0953 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
1000		13.3	1	7.43	22.6	2109	-82	1	19.95
1006		26.6	2	7.29	23.8	2062	-80	1	20.13
1013		39.9	3	7.27	23.1	2057	-76	1	20.29
1015				7.19	22.5	2001	-63	1	
1017				7.19	22.4	2003	-59		

METER	SERIAL #	CALIBRATED
pH :	607144	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3MRP
SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: EGSAFB QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 1019

SAMPLE ID (VERIFY): W-25N-23 / 3VES TIME COLLECTED: 1019

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250ml 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~~

3VES Not LVES

Revision: 02/05/2010

All Ground Water Sampling Data

WOMD

Target Sample Date: 27-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WELL ID: W-25N-23 AREA INFO: 8300/GSA/EGSA

DATE: 27-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19129

PURGE METHOD/SAMPLE METHOD: GF / ~~LVES~~ 3UES CONTAMINANT PRESENT: *TCE-6.0

SCREENED INTERVAL: 21.81 - 36.81 PUMP INTAKE DEPTH: 36.50

DEPTH OF CASING: 38.11 DISCHARGE LINE: 1/4"

DEPTH TO WATER: 17.71 VOLUME FACTOR: ~~0.041~~ .65

WATER IN CASING (ft): 20.4 CASING VOL (Gal/Time): 13.3 x 3cv = 39.9

TIME PUMP ON: 0851 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
0857		13.3	1	7.60	21.1	2093	91	1	20.33
0904		26.6	2	7.40	21.4	2043	76	1	20.36
0911		39.9	3	7.36	21.5	1996	42	1	20.36
0913				7.35	21.5	1976	17		
0915									

METER	SERIAL #	CALIBRATED
pH	607144	YES/NO
SC		YES/NO
mV		YES/NO
H2O		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: EGSAFB QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME: 0917

SAMPLE ID (VERIFY): W-25N-23 / 3UES TIME COLLECTED: 0917

PROJECT	ANALYTICAL LAB	REQUESTED ANALYSIS	QUANTITY	TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	~~1~~	~~250ml 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

3ues not Lves

used BC Blank water

Evacuated all cL

Revision: 02/05/2010

All Ground Water Sampling Data

Target Sample Date: 26-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WGMD

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

DATE: 26-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19128

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

SCREENED INTERVAL: 22.72 - 27.72 PUMP INTAKE DEPTH: 29.00

DEPTH OF CASING: 30.00 CASING DIAMETER: 4.50

DEPTH TO WATER: 15.00 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 15.00 CASING VOL (Gal/Time): 12.4 Gal x 3vo = 37.2

TIME PUMP ON: 1127 INITIAL FLOW RATE (Q=GPM): 2.0

TIME PUMP OFF: 1153 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1133		12.4	1	7.61	23.2	1444	35	1	20.76
1139		24.8	2	7.63	23.2	1436	31	1	21.81
1145		37.2	3	7.60	23.4	1430	31	1	21.89
1147				7.58	23.0	1434	29	1	
1149				7.57	23.1	1431	27		

METER	SERIAL #	CALIBRATED
pH :	807144	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-26R-01/ 3VES TIME COLLECTED: 1153

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250ml 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~~

Revision: 02/05/2010 Added 2.5 oz of CC

All Ground Water Sampling Data

WGMD

Target Sample Date: 27-Jul-2010 | Month: | Norm Qtr: 3 | Norm Year: 2010

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

DATE: 27-Jul-2010 | LOG BOOK (DOCUMENT CONTROL) #: AA19128

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

SCREENED INTERVAL: 22.72 - 27.72 | PUMP INTAKE DEPTH: 29.00

DEPTH OF CASING: 30.00 | CASING DIAMETER: 4.50

DEPTH TO WATER: 15.05 | VOLUME FACTOR: 0.826

WATER IN CASING (ft): 14.95 | CASING VOL (Gal/Time): 12.3 × 3cv = 36.9 Gal

TIME PUMP ON: 1008 | 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
1014		12.3	1	7.93	22.5	1451	-4	1	19.40
1020		24.6	2	7.78	22.2	1458	31	1	21.47
1026		36.9	3	7.80	22.4	1449	80	1	21.61
1028				7.72	22.4	1451	83	1	
1030				7.75	22.3	1453	80		

METER	SERIAL #	CALIBRATED
pH :	G07144	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		~~YES~~/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3MRP
SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-26R-01 / 3VES | TIME COLLECTED: 1033

PROJECT	/ ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	~~1~~	~~250ml 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

Purged in to Barrell
Evacuated all cl

Revision: 02/05/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 25-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

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

DATE: 25-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21006

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

SCREENED INTERVAL: 22.72 - 27.72 PUMP INTAKE DEPTH: 29.00

DEPTH OF CASING: 30.00 CASING DIAMETER: 4.50

DEPTH TO WATER: 18.28 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 11.72 CASING VOL (Gal/Time): 9.6 x 3cv = 28.8 Gal

TIME PUMP ON: 1004 INITIAL FLOW RATE (Q=GPM): 2.0 Q

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1009		9.6	1	7.84	21.7	1473	35	1	~~22~~ 22.90
1014		19.2	2	7.63	22.4	1469	19	1	23.82
1018		28.8	3	7.~~58~~	22.4	1463	33	1	24.61
1020				7.59	22.3	1460	29	1	
1022				7.57	22.4	1453	27	1	

METER SERIAL # CALIBRATED
pH : 604347 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG 3PSDMP
SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: W-26R-49Y QC LAB(~~FGL~~STK, BCLABS-BAK, CALTEST) SAMPLE TIME: 1509

SAMPLE ID (VERIFY): W-26R-01 / 3VES TIME COLLECTED: 1027

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 2.0 oz of CL

Revision: 02/05/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 26-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

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

DATE: 26-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21006

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

SCREENED INTERVAL: 22.72 - 27.72 PUMP INTAKE DEPTH: 29.00

DEPTH OF CASING: 30.00 CASING DIAMETER: 4.50

DEPTH TO WATER: 18.31 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 11.69 CASING VOL (Gal/Time): 9.7 x 3cv = 29.1

TIME PUMP ON: 1013 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
1018		9.7	1	7.56	22.2	1508	734	1	23.23
1023		19.4	2	7.28	22.2	1462	585	1	NM
1028		29.1	3	7.31	22.1	1460	501	1	NM
1030				7.30	22.0	1457	429	1	
1032				7.30	22.3	1458	311		

METER SERIAL # CALIBRATED
pH : 604347 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG 3PSDMP
SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: W-26R-49Y QC LAB(S): FGLSTK, BCLABS-BAK, CALTEST SAMPLE TIME: 1202

SAMPLE ID (VERIFY): W-26R-01/3VES TIME COLLECTED: 1036

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

Evacuated all CL

All Ground Water Sampling Data

WGMD

Target Sample Date: 26-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

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

DATE: 26-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19128

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

SCREENED INTERVAL: 22.05 - 27.05 INTAKE DEPTH: 0.00

DEPTH OF CASING: 26.68 CASING DIAMETER: 4.50

DEPTH TO WATER: 18.80 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 7.88 CASING VOL (Gal/Time): 6.5 x 90% = 5.85

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
~~0830~~ 0915		6 Gal	90%	7.75	23.1	1336	57	1	

METER	SERIAL #	CALIBRATED
pH :	607144	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: ~~W-26R-607~~ QC LAB(S): FGLSTK, BCLABS-BAK QC SAMPLE TIME:

SAMPLE ID (VERIFY): W-26R-05 / 90AA TIME COLLECTED: 0915

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250ml 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~~

Missed W-26R-604 will pick up on another well

NOTE:
Purge rate/time: N/A since est_sus_flow = 0
Purge Volume: 10 gal.
Revision: 02/05/2010

All Ground Water Sampling Data

WAMD

Target Sample Date: 29-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

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

DATE: 29-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19128

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

SCREENED INTERVAL: 22.05 - 27.05 INTAKE DEPTH: 0.00

DEPTH OF CASING: 26.68 CASING DIAMETER: 4.50

DEPTH TO WATER: 22.62 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 4.06 CASING VOL (Gal/Time): 3.3 × 90% = 2.97

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
1051		3.0	90%	7.83	21.9	1429	88	1	24.90

METER SERIAL # CALIBRATED

pH : 607144 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: ~~W-26R-60Y~~ QC LAB(S): ~~FGLSTK, BCLABS-BAK~~ QC SAMPLE TIME: ~~1128~~

SAMPLE ID (VERIFY): W-26R-05 / 90BA TIME COLLECTED: 1054

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	1	250ml 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

No sample

Purged into Barrell

Evacuated all CL

NOTE:

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

Purge Volume: 10 gal.

Revision: 02/05/2010

All Ground Water Sampling Data   Retest

WCMD

Target Sample Date: 29-Jul-2010   Month: Norm Qtr: 3   Norm Year: 2010

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

DATE: 29-Jul-2010   LOG BOOK (DOCUMENT CONTROL) #: AA19131

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

SCREENED INTERVAL: 22.05 - 27.05   INTAKE DEPTH: 0.00

DEPTH OF CASING: 26.68   CASING DIAMETER: 4.50

DEPTH TO WATER: 22.62   VOLUME FACTOR: 0.826

WATER IN CASING (ft): 4.06   CASING VOL (Gal/Time): 3.3 x 90% = 2.97 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
1051		3.0 Gal	90%	7.83	21.9	1429	88	1	24.90

METER   SERIAL #   CALIBRATED
pH : 607144   YES/NO
SC :   YES/NO
mV :   YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3MRP
SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: W-26R-05   QC LAB(S): BCLABS-BAK   QC SAMPLE TIME:

SAMPLE ID (VERIFY): W-26R-05 / 90BA   TIME COLLECTED: 1054

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3MRP	BCLABS-BAK	E218.4B	1	250 mL Polyethylene
3MRP	BCLABS-BAK	E218.4B:FILTER	0	250 mL Polyethylene

Retested for Cr6 due to faulty lab instrument on 7/26 run.

Purged 1w to Barrell

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

Revision: 02/05/2010

All Ground Water Sampling Data

Target Sample Date: 25-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

WAMD

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

DATE: 25-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21006

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

SCREENED INTERVAL: 22.05 - 27.05 INTAKE DEPTH: 0.00

DEPTH OF CASING: 26.68 CASING DIAMETER: 4.50

DEPTH TO WATER: 21.72 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 4.96 CASING VOL (Gal/Time): 4.0 x 90% = 3.6 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
0843		3.6 Gal	90%	7.80	19.7	1308	118	1	

METER	SERIAL #	CALIBRATED
pH :	604347	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3EMG 3PSDMP

SAMPLE PRESERVATION/AMT of REAGENT: NA

QC SAMPLE ID: EGSAFB QC LAB(~~FGLSTK~~, BCLABS-BAK, ~~CALTEST~~ SAMPLE TIME: 0847

SAMPLE ID (VERIFY): W-26R-05 / 90BA TIME COLLECTED: 0847

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: 02/05/2010

All Ground Water Sampling Data

Target Sample Date: 28-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

WGMD

WELL ID: W-26R-05 AREA INFO: 8300/GSA/EGSA

DATE: 28-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21006

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

SCREENED INTERVAL: 22.05 - 27.05 INTAKE DEPTH: 0.00

DEPTH OF CASING: 26.68 CASING DIAMETER: 4.50

DEPTH TO WATER: 25.29 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 1.69 CASING VOL (Gal/Time): 1.3 x 90% 1.17

TIME PUMP ON: -0- 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
0847		1.2 Gal	30%	7.31	19.3	1232	195	1	25.51
0848		2.5L	60	7.29	19.3	1230	187	1	25.87
0850		1.2 Gal	90	7.32	19.4	1235	180	1	25.93

METER SERIAL # CALIBRATED
pH : 004347 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG 3PSDMP
SAMPLE PRESERVATION/AMT of REAGENT: N/A

QC SAMPLE ID: EGSAFB QC LAB(S): FGLSTK, BCLABS-BAK, CALTEST SAMPLE TIME: 0853

SAMPLE ID (VERIFY): W-26R-05 / 90BA TIME COLLECTED: 0853

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

Evacuated all CL after boiling 2x daily Tues & Wed
Used 13C [illegible] for FB sample

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

Revision: 02/05/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 27-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WELL ID: W-26R-11 AREA INFO: 8300/GSA/EGSA

DATE: 27-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19129

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

SCREENED INTERVAL: 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08

DEPTH OF CASING: 29.28 CASING DIAMETER: 4.50

DEPTH TO WATER: 12.30 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 16.98 CASING VOL (Gal/Time): 14 x 3cv = 42 Gal

TIME PUMP ON: 1040 INITIAL FLOW RATE (Q=GPM): 1.2 Q

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1051		14	1	7.75	23.1	1498	71	1	12.34
1103		28	2	7.69	23.1	1500	64	1	12.37
1114		42	3	7.73	23.5	1503	61	1	12.37
1116				7.71	23.3	1500	60	1	
1118				7.69	23.2	1518	57	1	

METER	SERIAL #	CALIBRATED
pH :	607144	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3MRP
SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-26R-11/3VES TIME COLLECTED: 1121

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

Purged into barrels

Added 2.0 oz of CL

Revision: 02/05/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 28-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

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

DATE: 28-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19129

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

SCREENED INTERVAL: 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08

DEPTH OF CASING: 29.28 CASING DIAMETER: 4.50

DEPTH TO WATER: 12.30 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 16.98 CASING VOL (Gal/Time): 14.0 x 3cv = 42

TIME PUMP ON: 1107 INITIAL FLOW RATE (Q=GPM): 2.0

TIME PUMP OFF: 1134 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1114		14.0	1	7.65	22.7	1500	55	1	12.32
1121		28.0	2	7.66	22.9	1503	55	1	12.34
1128		42.0	3	7.57	22.4	1509	59	1	12.48
1130				7.48	22.1	1505	60	1	
1132									

METER SERIAL # CALIBRATED
pH : 607144 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3MRP
SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-26R-11 / 3045 TIME COLLECTED: 1134

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	1	250ml 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

No Samples

Purged to Barrell

Evacuated all CL

All Ground Water Sampling Data

WGMD

Target Sample Date: 25-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

WELL ID: W-26R-11 AREA INFO: 6300/GSA/EGSA

DATE: 25-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21006

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

SCREENED INTERVAL: 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08

DEPTH OF CASING: 29.28 CASING DIAMETER: 4.50

DEPTH TO WATER: 15.60 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 13.68 CASING VOL (Gal/Time): 11.3 x 3cv = 33.9 Gal

TIME PUMP ON: 1040 INITIAL FLOW RATE (Q=GPM): 1.9

TIME PUMP OFF: 1105 MEASURED BY/FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1046		11.3	1	7.61	22.7	1555	-89	1	15.58
1052		22.6	2	7.43	22.9	1557	-58	1	15.59
1058		33.9	3	7.45	22.9	1560	-37	1	15.61
1100				7.43	23.0	1557	-42	1	
1102				7.44	23.0	1560	-39		

METER	SERIAL #	CALIBRATED
pH :	604347	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG 3CMP
SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-26R-11 / 3VES 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
~~3EMG~~	~~FGLSTK~~	~~SM9221:SHO~~	~~1~~	~~250 mL Sterilized Polyethylene~~

Added 2.0 oz of cl

All Ground Water Sampling Data

WGMID

Target Sample Date: 26-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

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

DATE: 26-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21006

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

SCREENED INTERVAL: 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08

DEPTH OF CASING: 29.28 CASING DIAMETER: 4.50

DEPTH TO WATER: 15.53 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 13.75 CASING VOL (Gal/Time): 11.4 x 3cv = 34.2

TIME PUMP ON: 1057 INITIAL FLOW RATE (Q=GPM): 1.9

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		11.4	1	7.37	22.7	1561	108	1	15.60
1109		22.8	2	7.33	23.1	1556	56	1	15.60
1115		34.2	3	7.35	23.3	1555	41	1	15.63
1117				7.31	23.2	1556	35	1	
1119									

METER SERIAL # CALIBRATED

pH : 604347 YES/NO

SC : YES/NO

mV : YES/NO

H2O: YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3EMG 3CMP

SAMPLE PRESERVATION/AMT of REAGENT: NA

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~~
3EMG	FGLSTK	SM9221:SHO	1	250 mL Sterilized Polyethylene

Evacuated all cl

All Ground Water Sampling Data

Target Sample Date: 27-Jul-2010 Month: Norm Qtr: 3 Norm Year: 2010

WAMD

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

DATE: 27-Jul-2010 LOG BOOK (DOCUMENT CONTROL) #: AA19129

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

SCREENED INTERVAL: 18.80 - 28.80 PUMP INTAKE DEPTH: 27.80

DEPTH OF CASING: 30.30 CASING DIAMETER: 4.50

DEPTH TO WATER: 11.61 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 18.99 CASING VOL (Gal/Time): 15.7 x 3cv = 47.1

TIME PUMP ON: 11:31 INITIAL FLOW RATE (Q=GPM): 1.7

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

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1140		15.7	1	7.77	22.6	1469	65	1	11.62
1149		31.4	2	7.76	22.1	1480	72	1	11.63
1158		47.1	3	7.73	22.4	1471	71	1	11.65
1200				7.69	21.8	1479	71	1	
1202				7.70	21.9	1480	70		

METER	SERIAL #	CALIBRATED
pH :	0007144	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-7DS/3VES TIME COLLECTED: 1207

PROJECT /	ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
3MRP	BCLABS-BAK	S3ANIONS	1	250ml 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~~

Purged into barrell
Add 2.5 oz of CL

Revision: 02/05/2010

All Ground Water Sampling Data

WGMD

Target Sample Date: 28-Jul-2010   Month: Norm Qtr: 3   Norm Year: 2010

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

DATE: 28-Jul-2010   LOG BOOK (DOCUMENT CONTROL) #: AA19129

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

SCREENED INTERVAL: 18.80 - 28.80   PUMP INTAKE DEPTH: 27.80

DEPTH OF CASING: 30.30   CASING DIAMETER: 4.50

DEPTH TO WATER: 11.67   VOLUME FACTOR: 0.826

WATER IN CASING (ft): 18.63   CASING VOL (Gal/Time): 15.4 x 3cv = 46.2

TIME PUMP ON: 1141   INITIAL FLOW RATE (Q=GPM): 2.7 Q

TIME PUMP OFF: 1206   MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1147		15.4	1	7.68	22.9	1461	61	1	11.68
1153		30.8	2	7.54	22.0	1476	68	1	11.71
1159		46.2	3	7.32	21.8	1453	51	1	11.70
1201				7.35	21.7	1486	54	1	
1203				7.35	21.5	1485	59	1	

METER	SERIAL #	CALIBRATED
pH :	602164	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3MRP

SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-7DS/3085   TIME COLLECTED: 1206

No Samples

PROJECT	/ ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
~~3MRP~~	~~BCLABS-BAK~~	~~S3ANIONS~~	1	250ml 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

Purged to Barrell

Evacuated all

All Ground Water Sampling Data

WGMP

Target Sample Date: 26-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

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

DATE: 26-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21007

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

SCREENED INTERVAL: 18.80 - 28.80 PUMP INTAKE DEPTH: 27.80

DEPTH OF CASING: 30.30 CASING DIAMETER: 4.50

DEPTH TO WATER: 14.93 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 15.37 CASING VOL (Gal/Time): 12.7 x 3cv = 38.1 Gal

TIME PUMP ON: 0852 INITIAL FLOW RATE (Q=GPM): 2.8 Q

TIME PUMP OFF: 0913 MEASURED BY:FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0857		12.7	1	7.55	21.7	1584	530	1	14.89
0901		25.4	2	7.43	22.2	1578	5	1	14.90
0906		38.1	3	7.44	22.2	1577	13	1	14.90
0908				7.39	22.3	1575	21	1	
0910				7.40	22.3	1570	20	1	

METER SERIAL # CALIBRATED
pH : 604347 YES/NO
SC : YES/NO
mV : YES/NO
H2O: YES/NO

SAMPLER /EMPLOYER: silva90
PROJECT: 3EMG
SAMPLE PRESERVATION/AMT of REAGENT: NA

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

SAMPLE ID (VERIFY): W-7DS / 3VES TIME COLLECTED: 0913

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~~

Added 2.0 oz of CL

All Ground Water Sampling Data

WGMMD

Target Sample Date: 27-Oct-2010 Month: Norm Qtr: 4 Norm Year: 2010

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

DATE: 27-Oct-2010 LOG BOOK (DOCUMENT CONTROL) #: AA21007

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

SCREENED INTERVAL: 18.80 - 28.80 PUMP INTAKE DEPTH: 27.80

DEPTH OF CASING: 30.30 CASING DIAMETER: 4.50

DEPTH TO WATER: 14.82 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 15.48 CASING VOL (Gal/Time): 13 x 3cv = 39 Gal

TIME PUMP ON: 1112 INITIAL FLOW RATE (Q=GPM): 3.0

TIME PUMP OFF: 1132 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1117		13	1	7.43	22.3	1573	281	1	14.94
1121		26	2	7.39	22.5	1563	263	1	14.98
1125		39	3	7.39	22.5	1569	258	1	14.98
1127				7.38	22.5	1568	258		
1129									

METER	SERIAL #	CALIBRATED
pH :	604347	YES/NO
SC :		YES/NO
mV :		YES/NO
H2O:		YES/NO

SAMPLER /EMPLOYER: silva90

PROJECT: 3EMG

SAMPLE PRESERVATION/AMT of REAGENT: NA

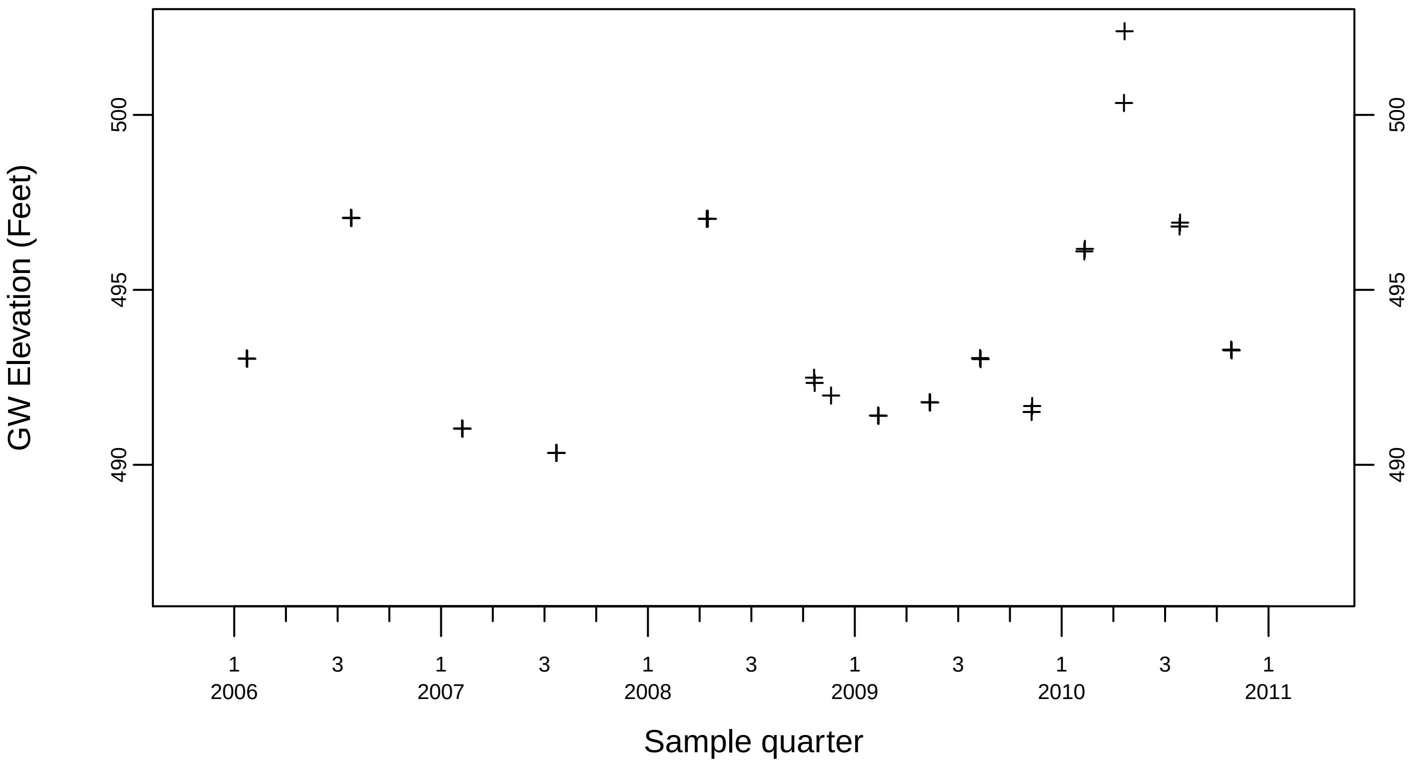
QC SAMPLE ID: — QC LAB(S): — QC SAMPLE TIME: —

SAMPLE ID (VERIFY): W-7DS/ 3VES TIME COLLECTED: 1132

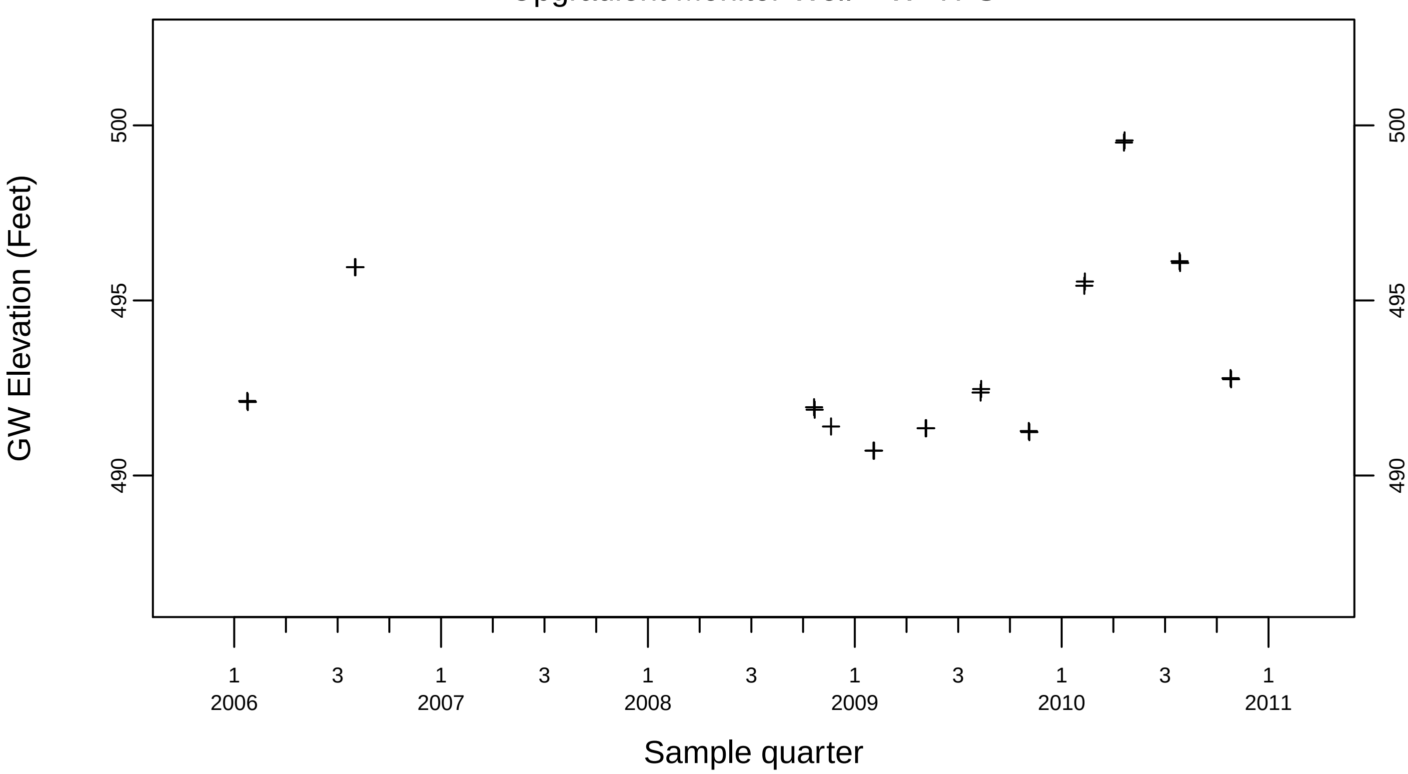
PROJECT	/ ANALYTICAL LAB	/REQUESTED ANALYSIS/	QUANTITY	/TYPE OF CONTAINERS
~~3EMG~~	~~BCLABS-BAK~~	~~E120.1~~	~~1~~	250 mL Polyethylene
~~3EMG~~	~~BCLABS-BAK~~	~~E150.1~~	~~1~~	250 mL Polyethylene
~~3EMG~~	~~BCLABS-BAK~~	~~E300.0:NO3~~	~~1~~	250 mL Polyethylene
3EMG	FGLSTK	SM9221:SHO	1	250 mL Sterilized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

Sewage Ponds Ground Water
GW Elevation (Feet)

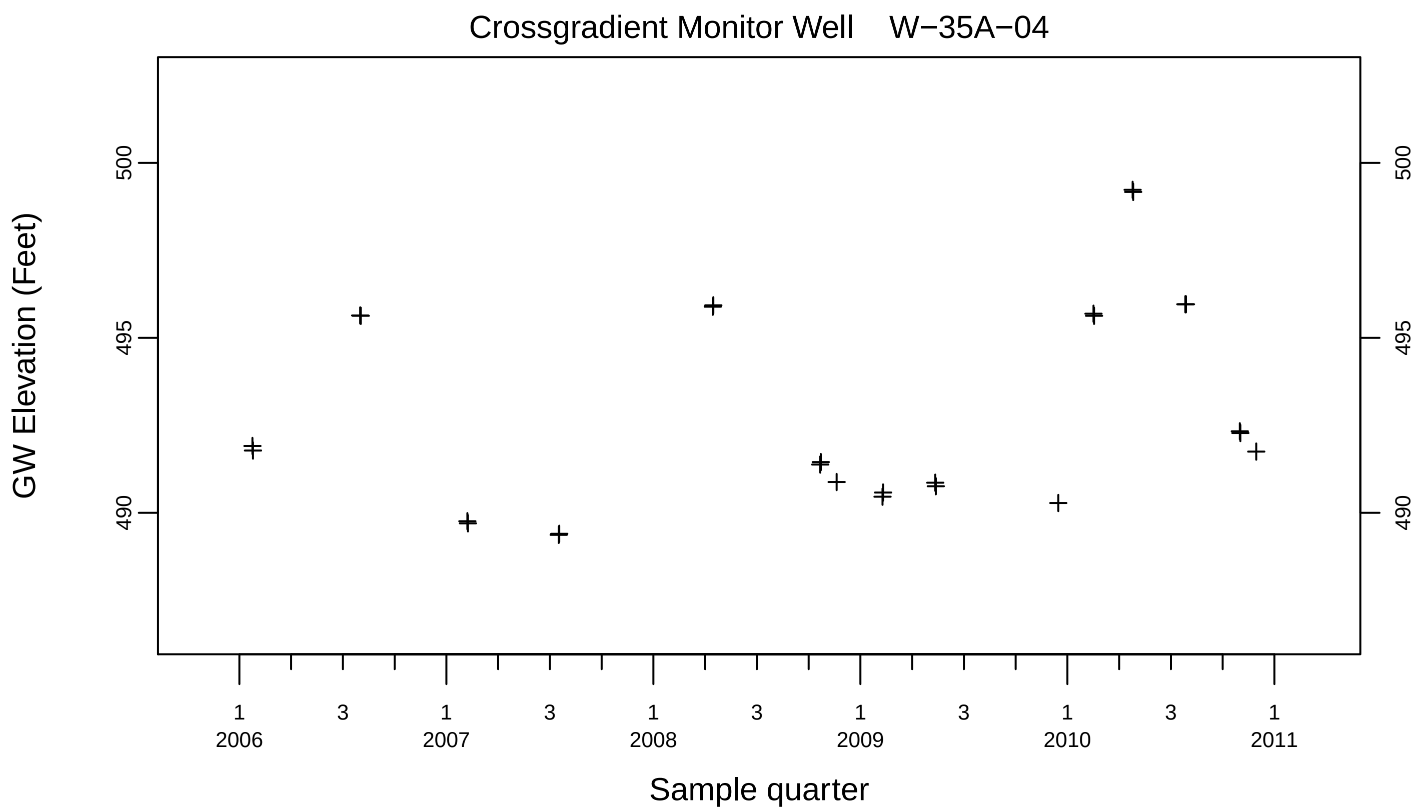
Upgradient Monitor Well W−7ES

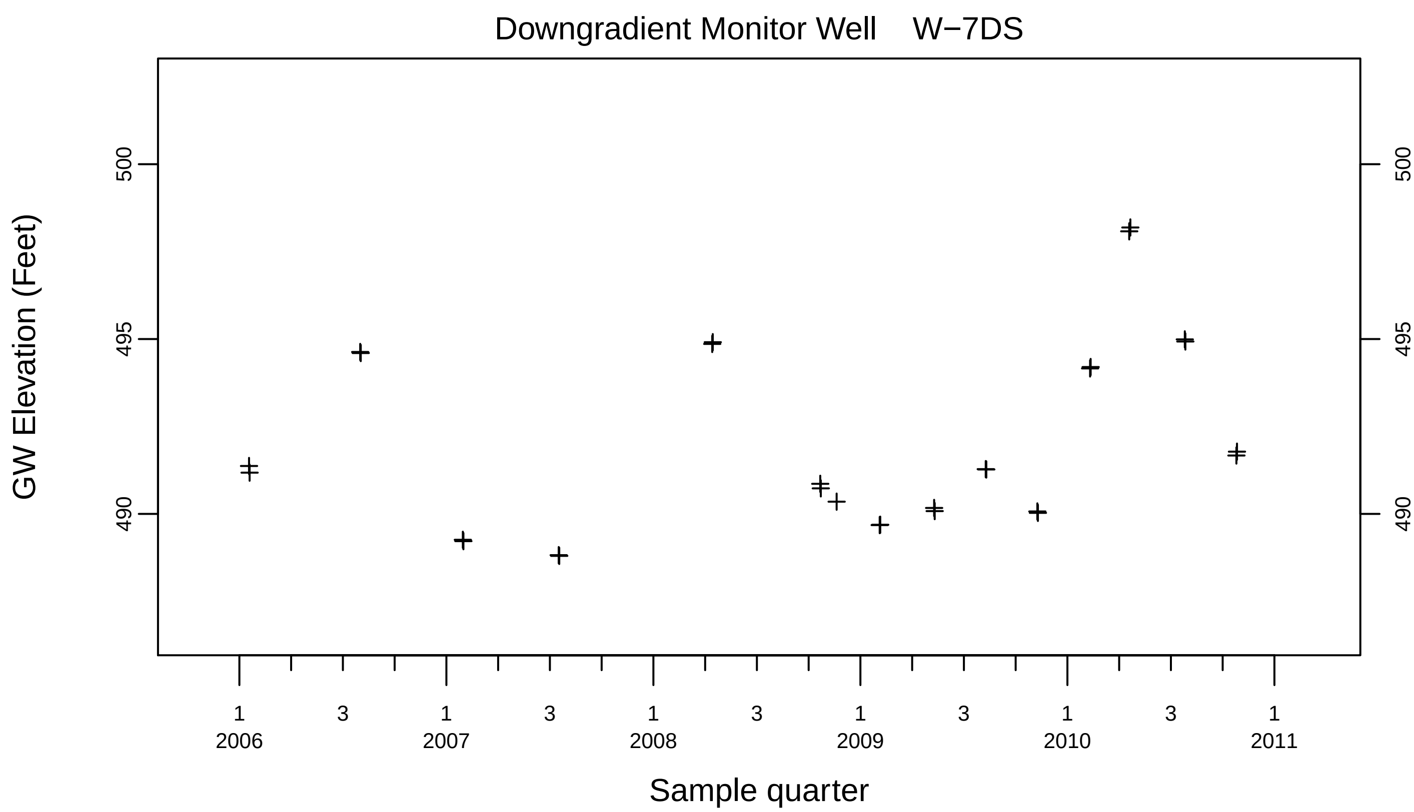


Upgradient Monitor Well W−7PS

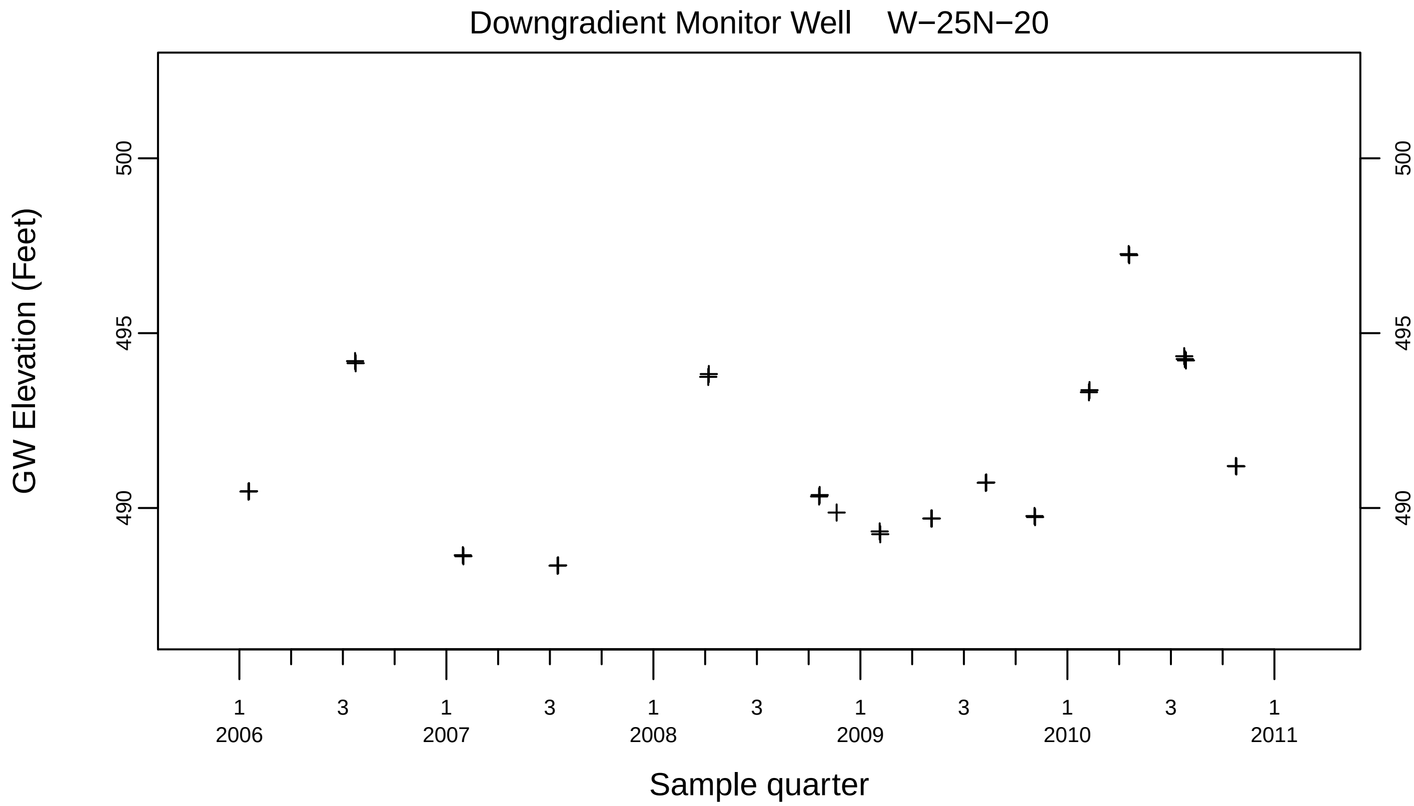


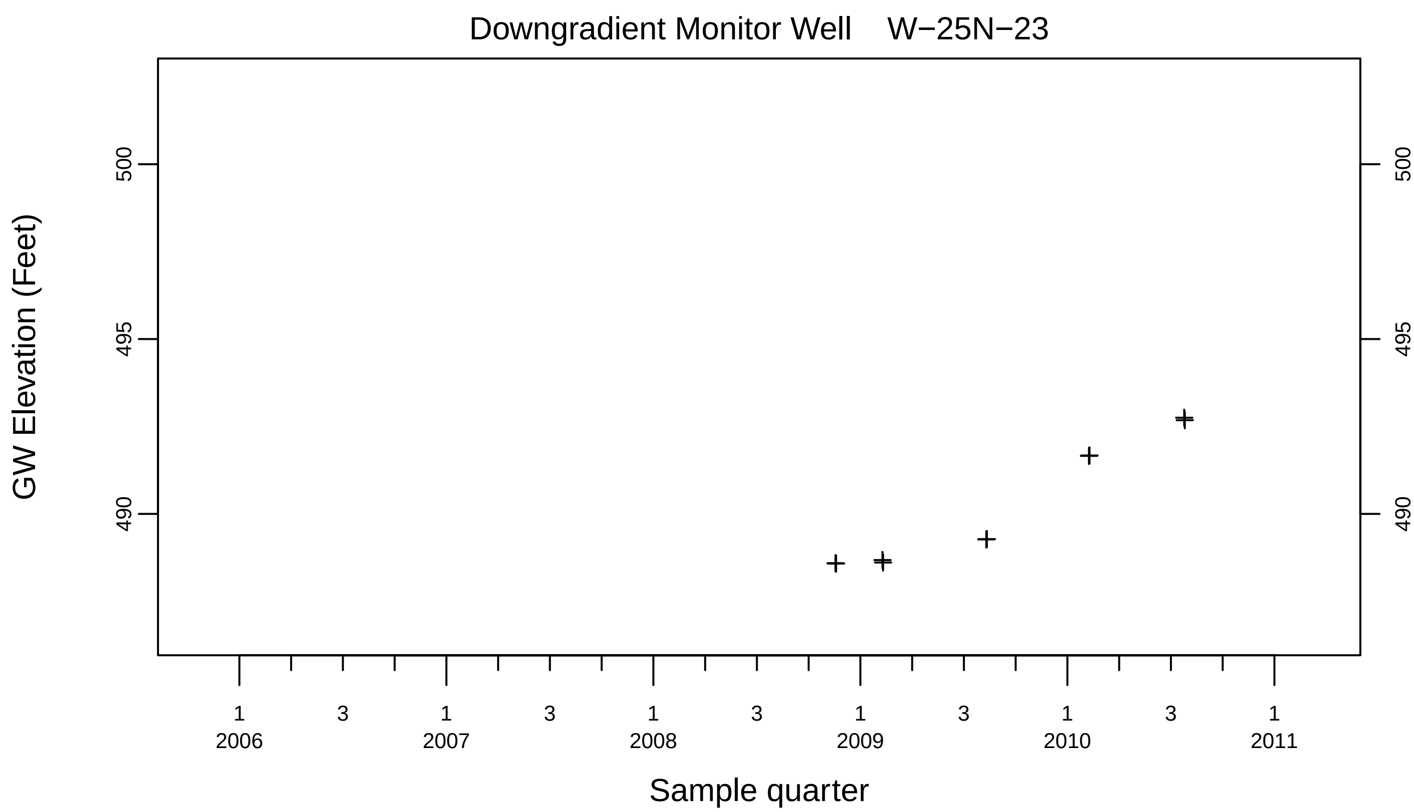
Sewage Ponds Ground Water
GW Elevation (Feet)



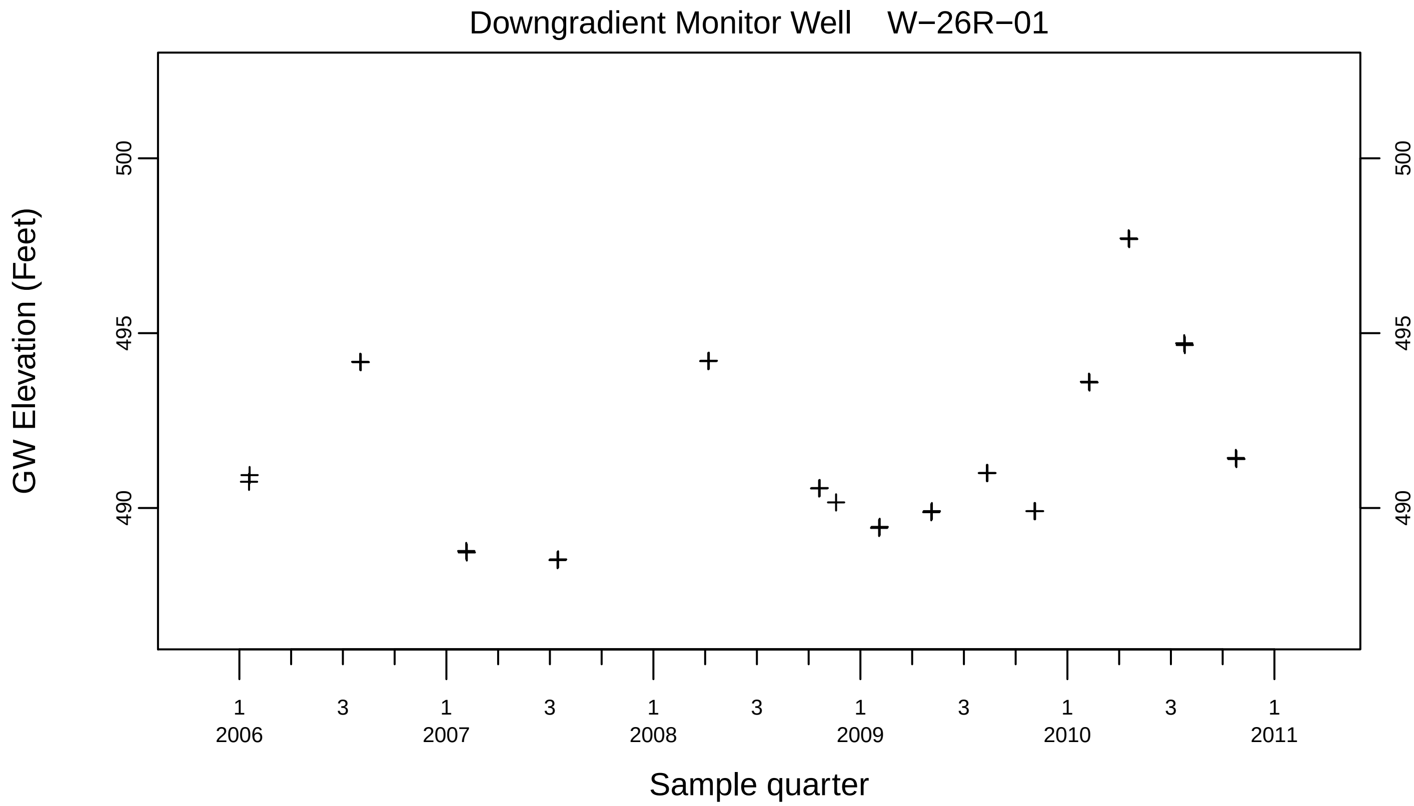


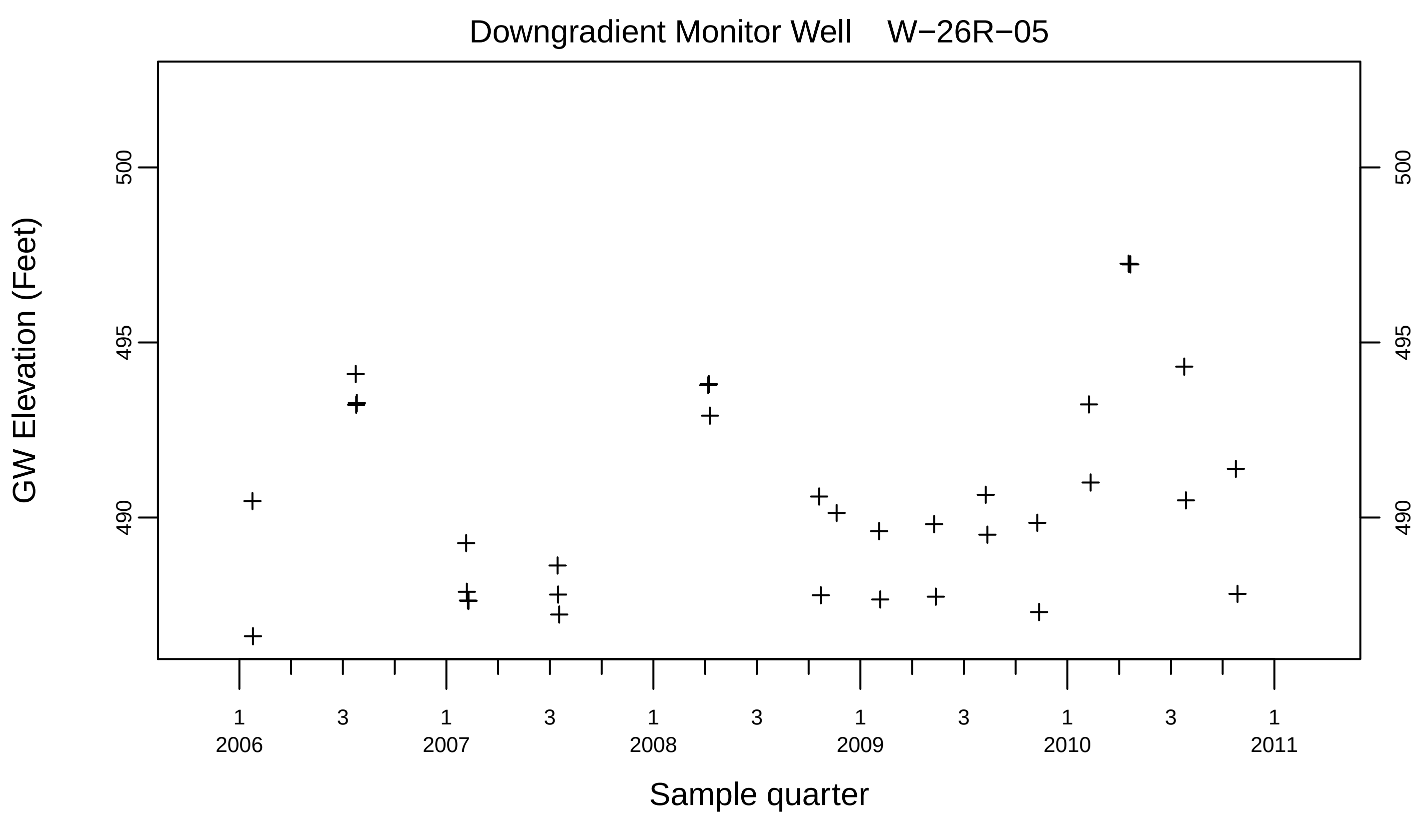
Sewage Ponds Ground Water
GW Elevation (Feet)



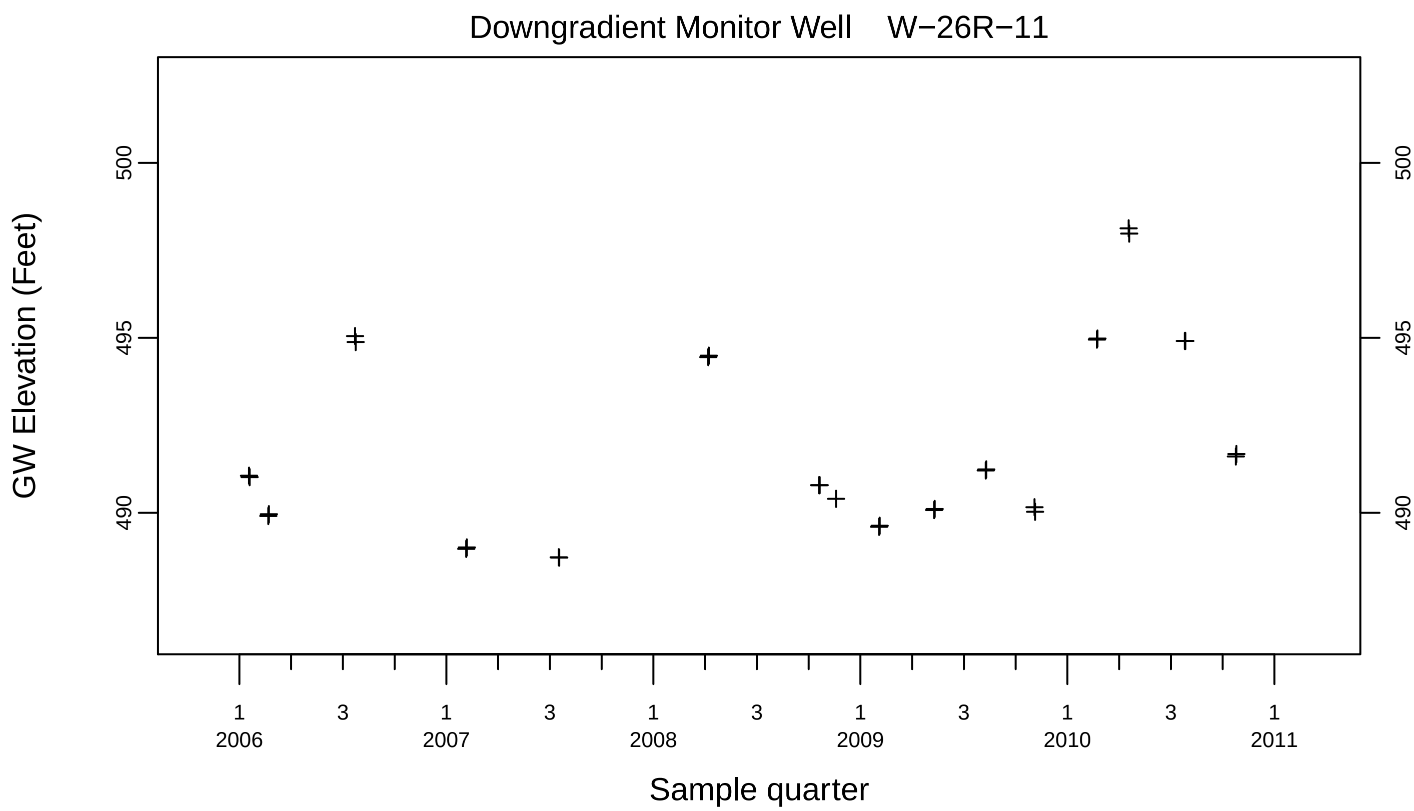


Sewage Ponds Ground Water
GW Elevation (Feet)

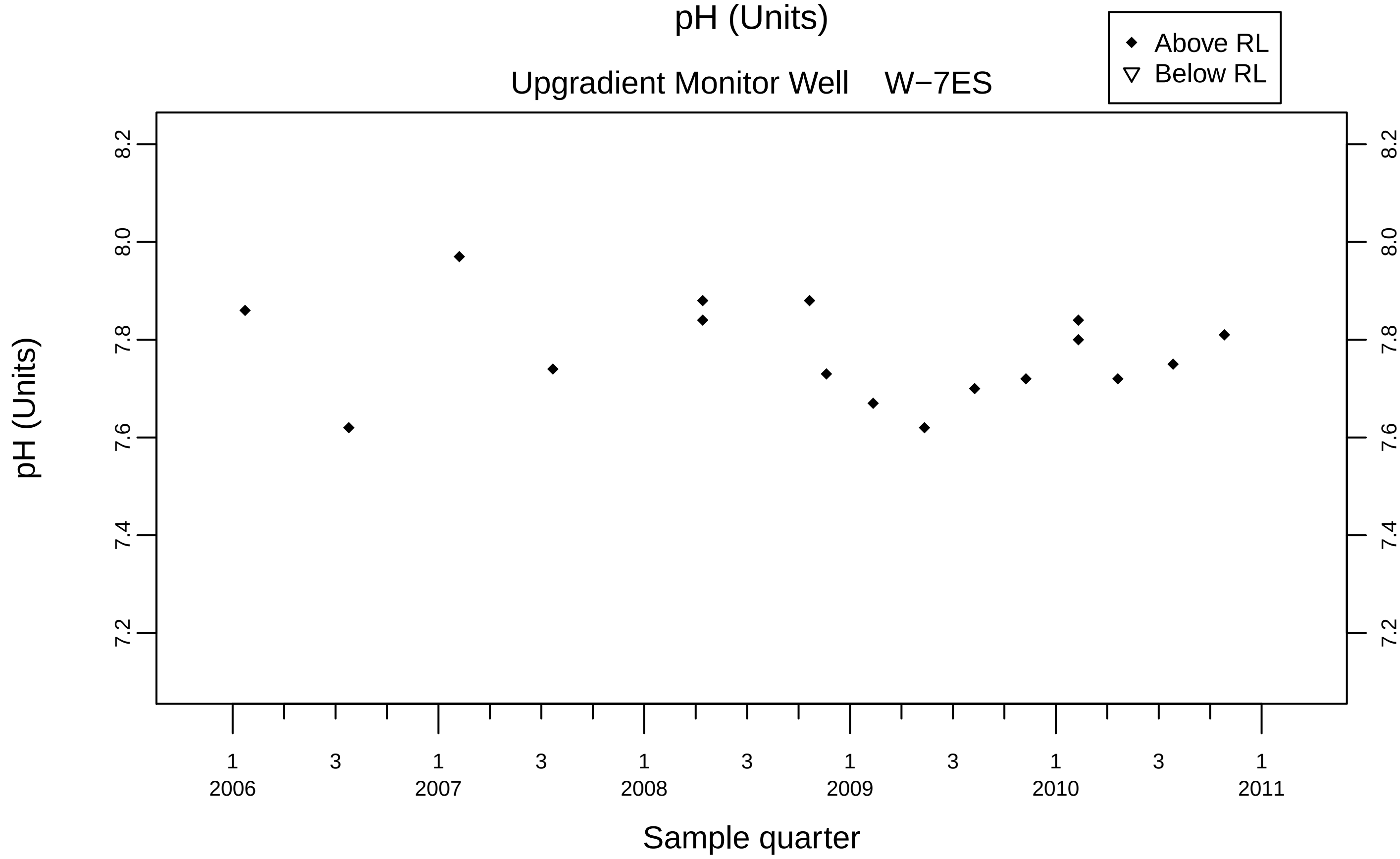


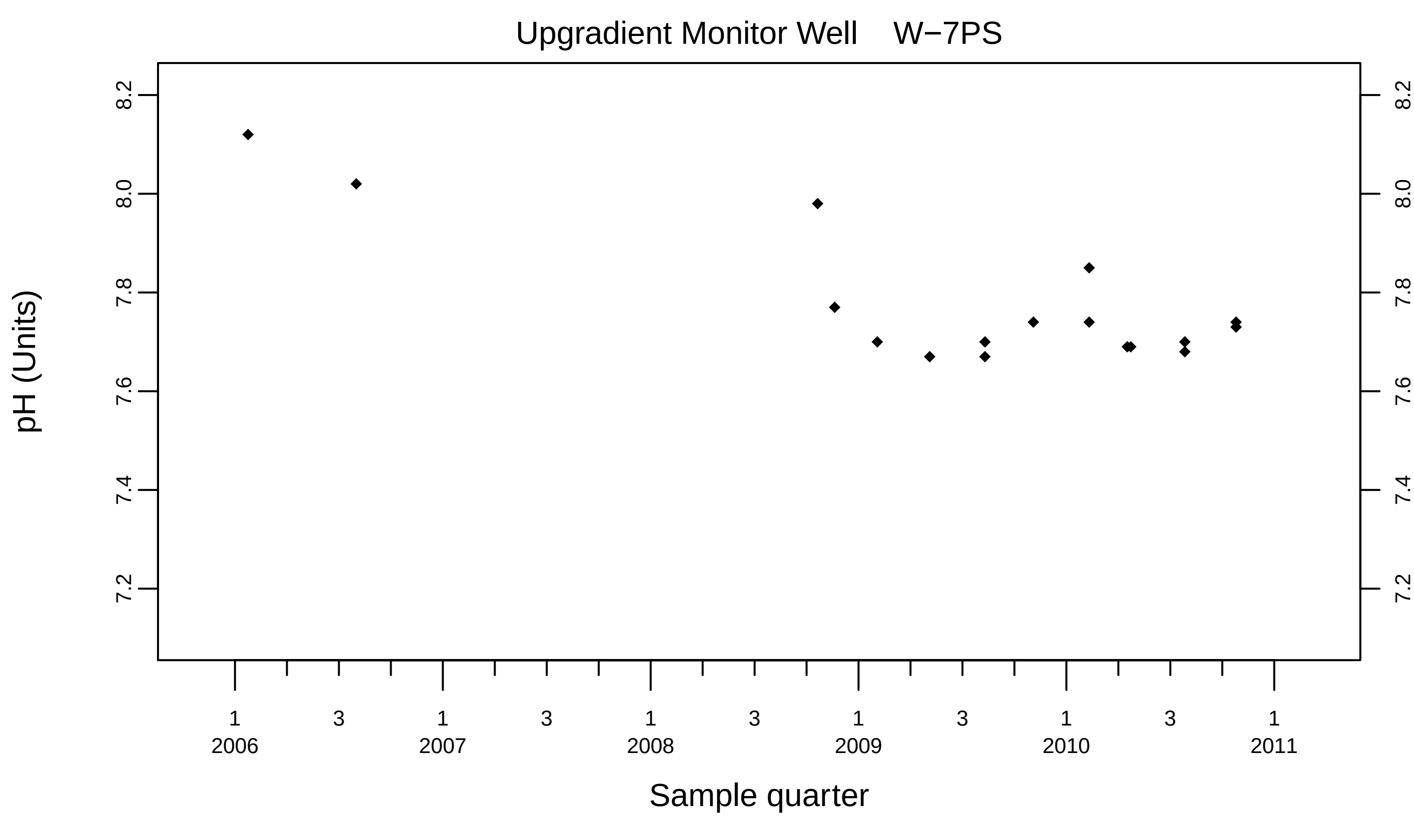


Sewage Ponds Ground Water
GW Elevation (Feet)

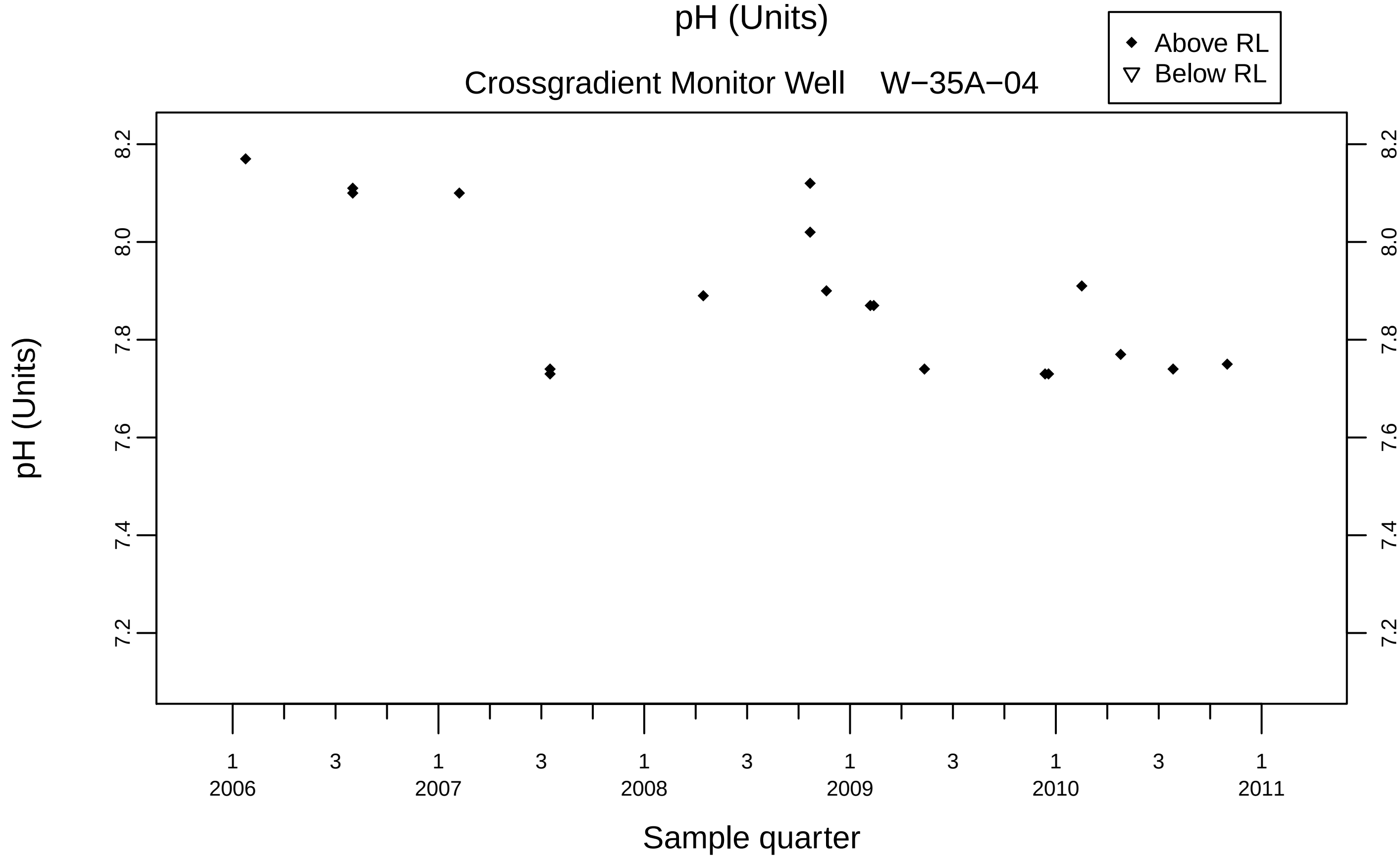


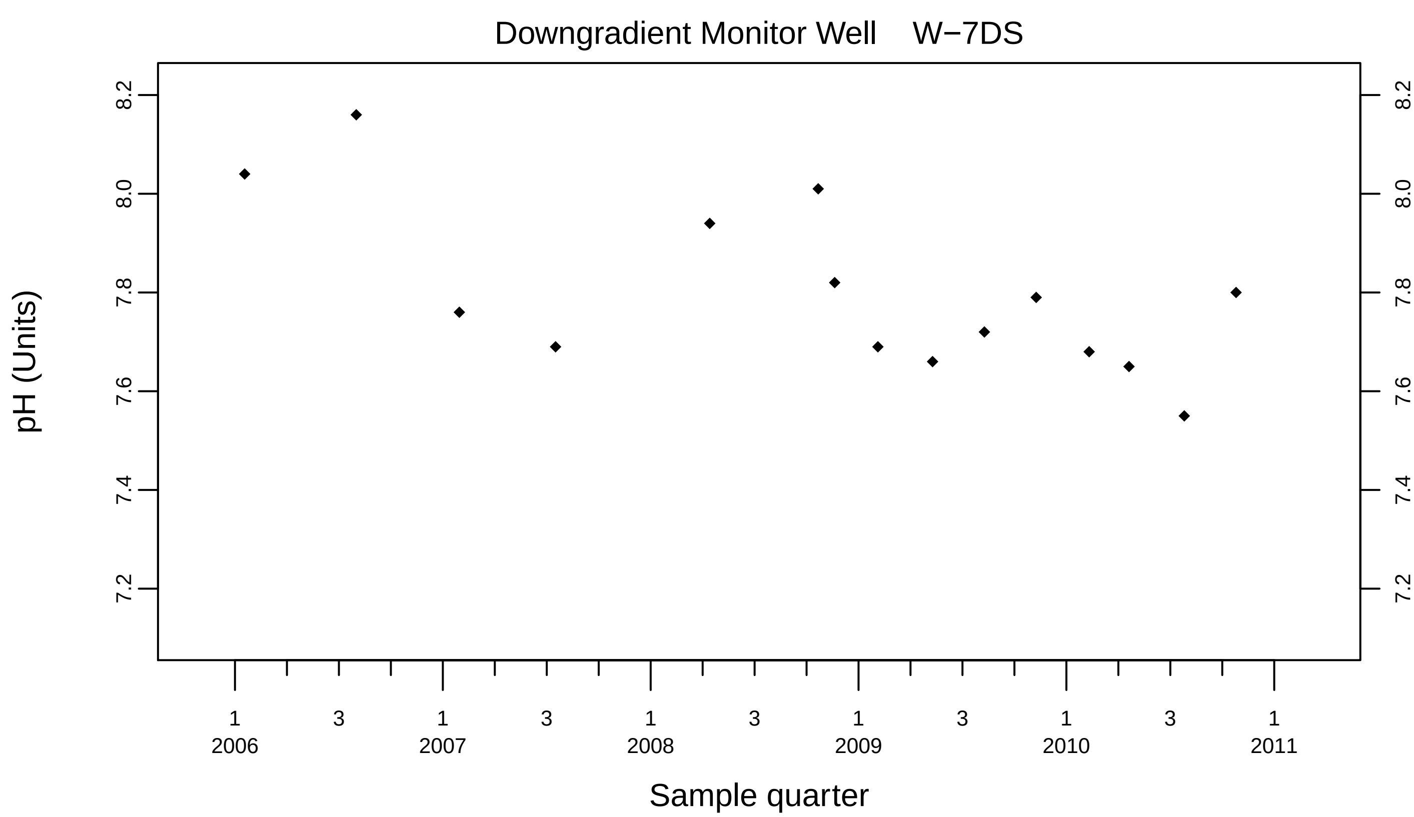
Sewage Ponds Ground Water
pH (Units)



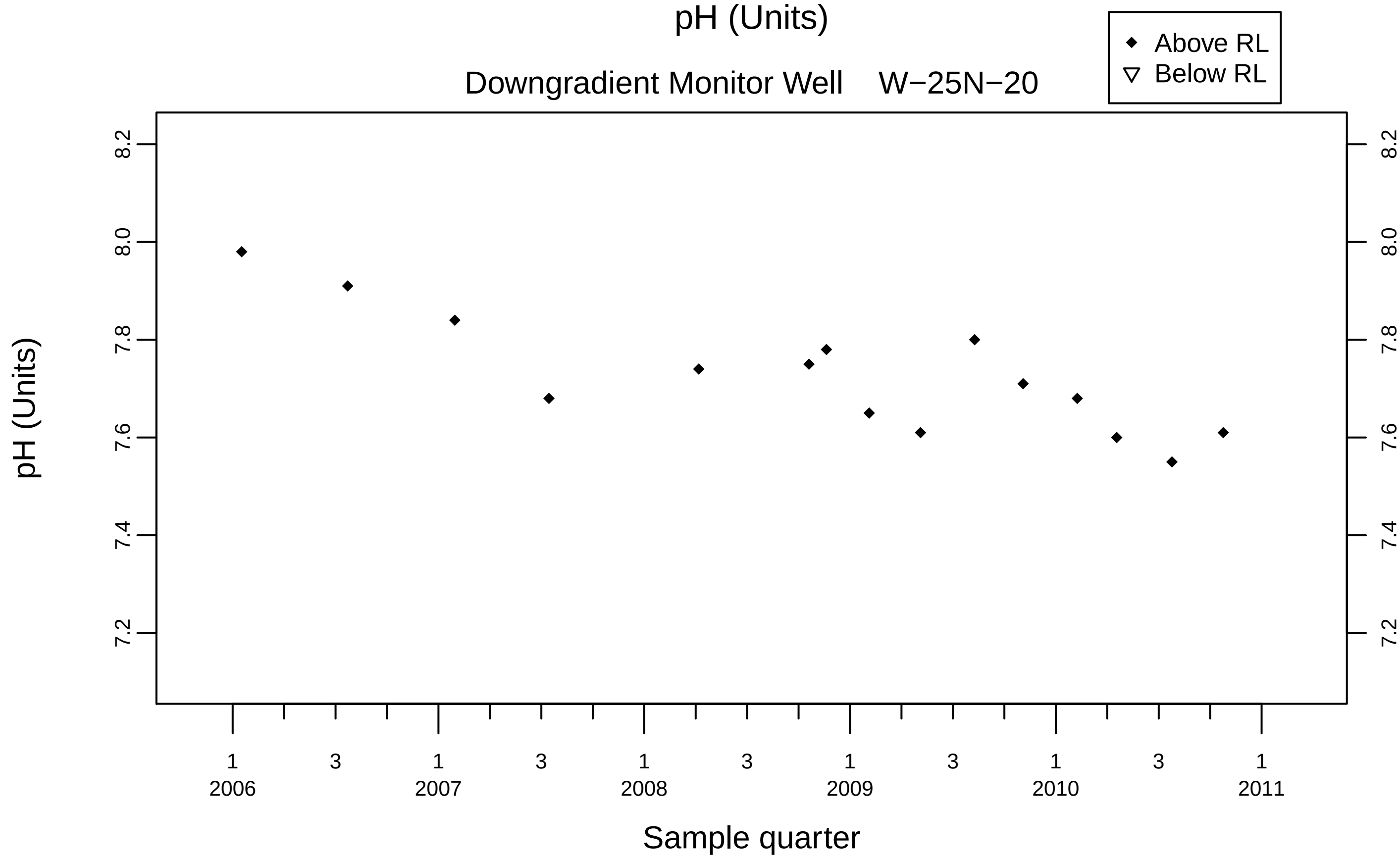


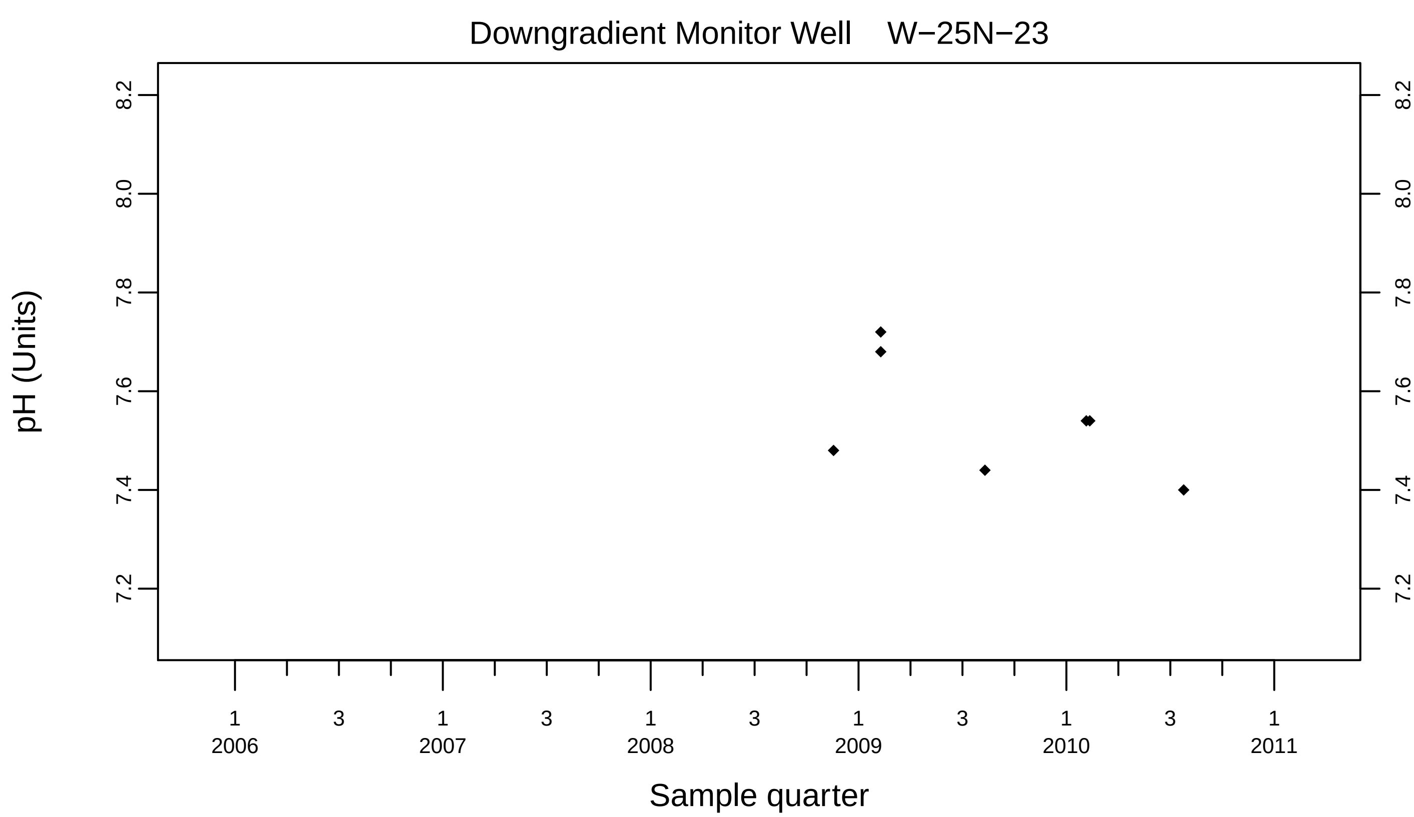
Sewage Ponds Ground Water
pH (Units)



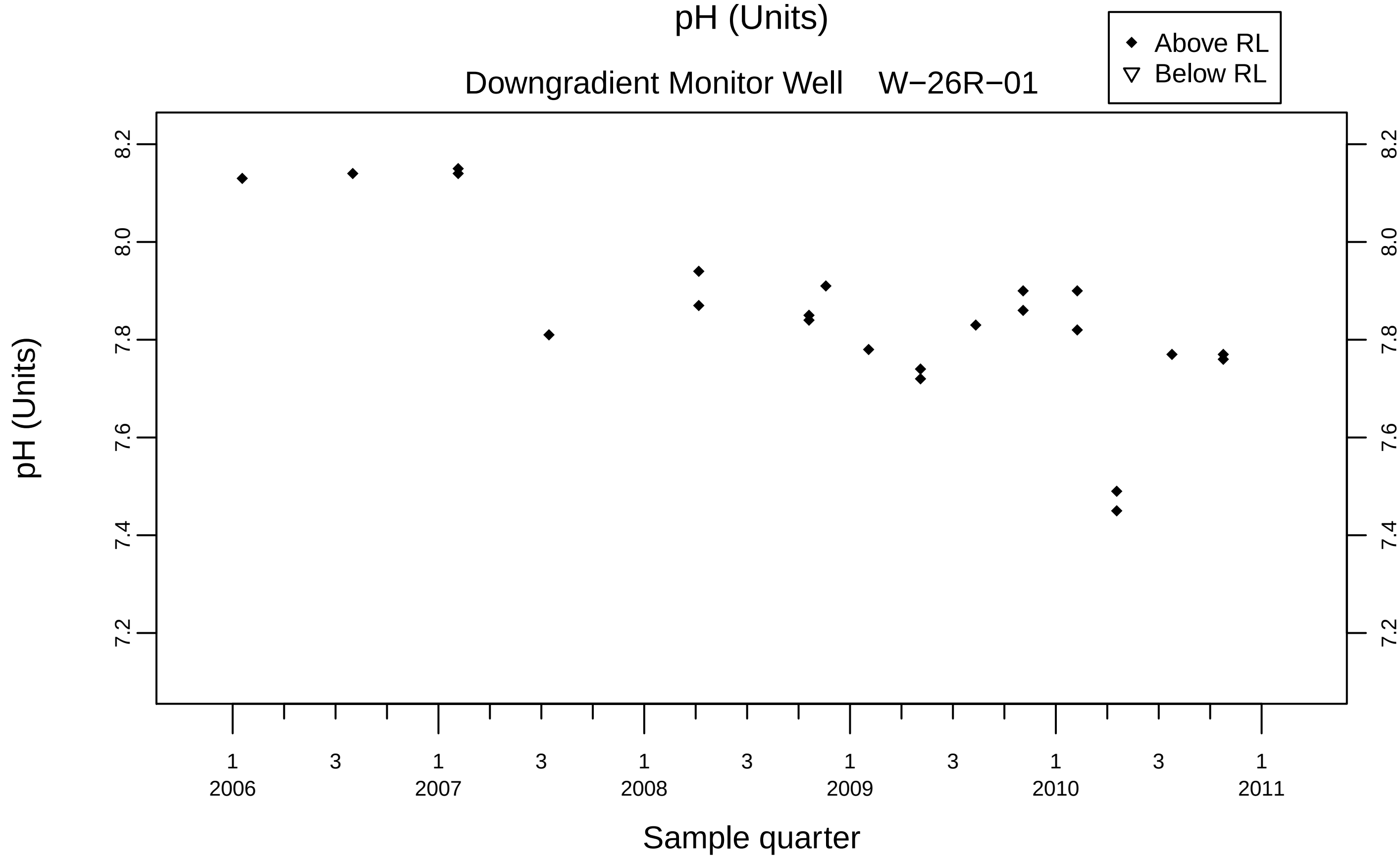


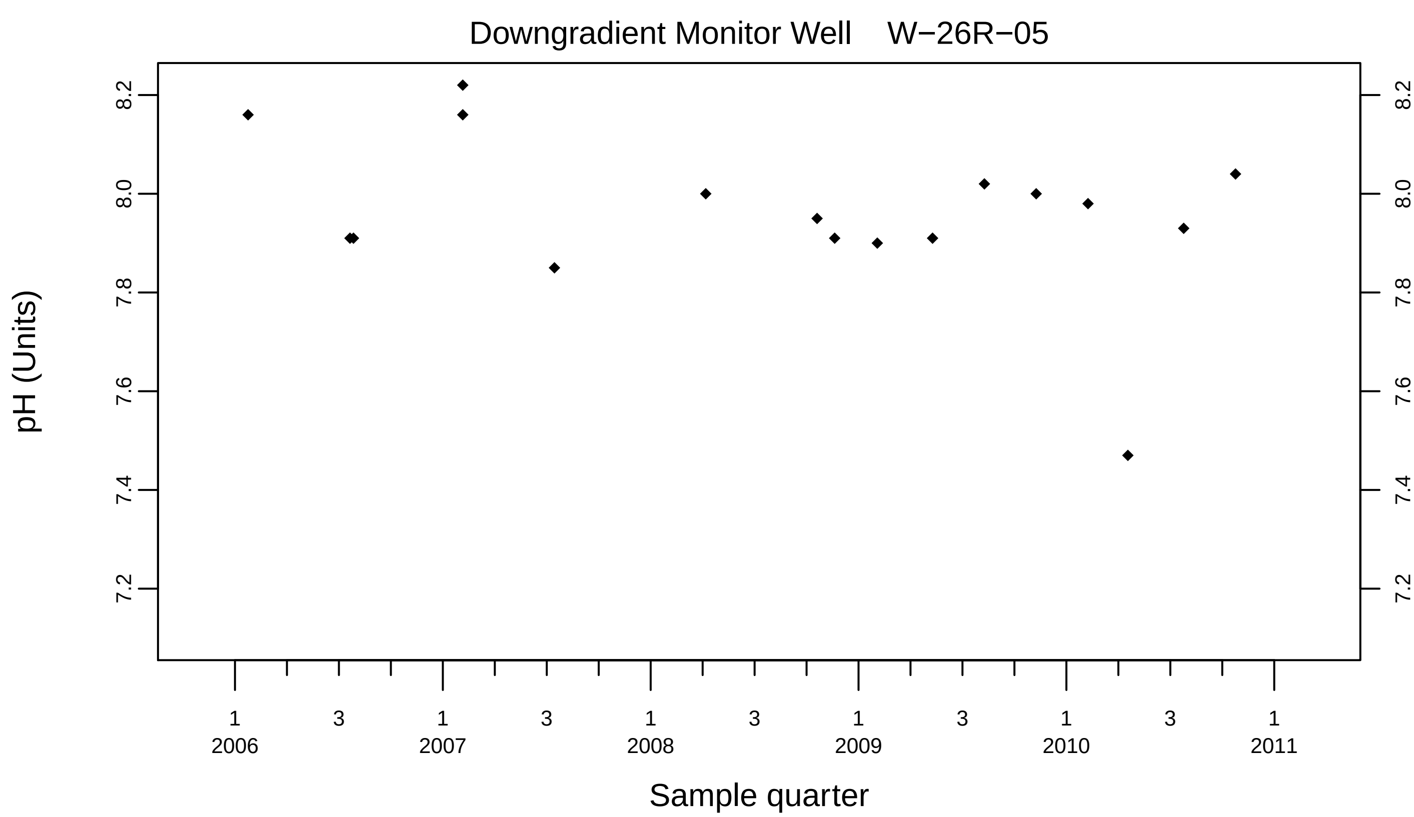
Sewage Ponds Ground Water
pH (Units)

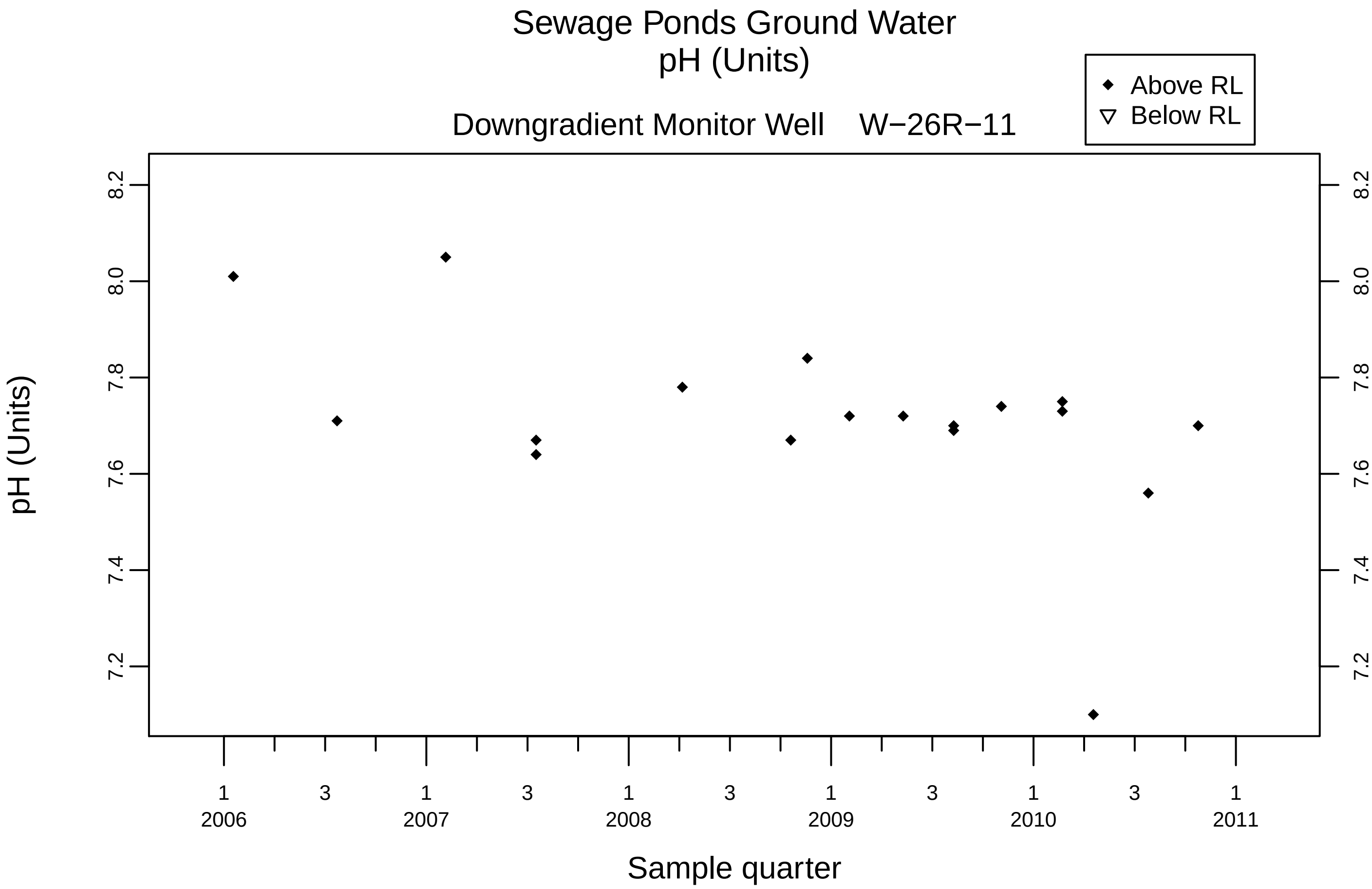


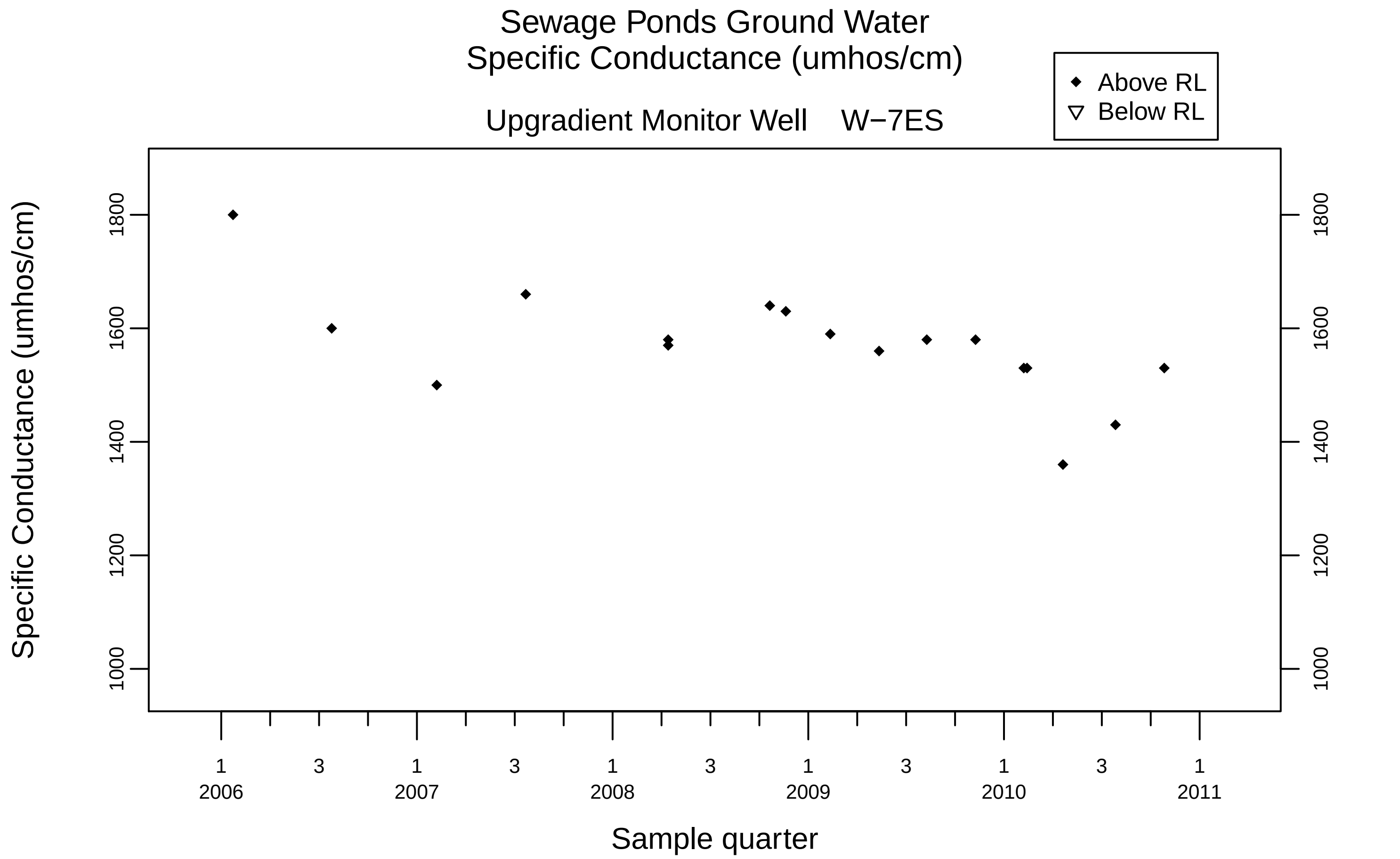


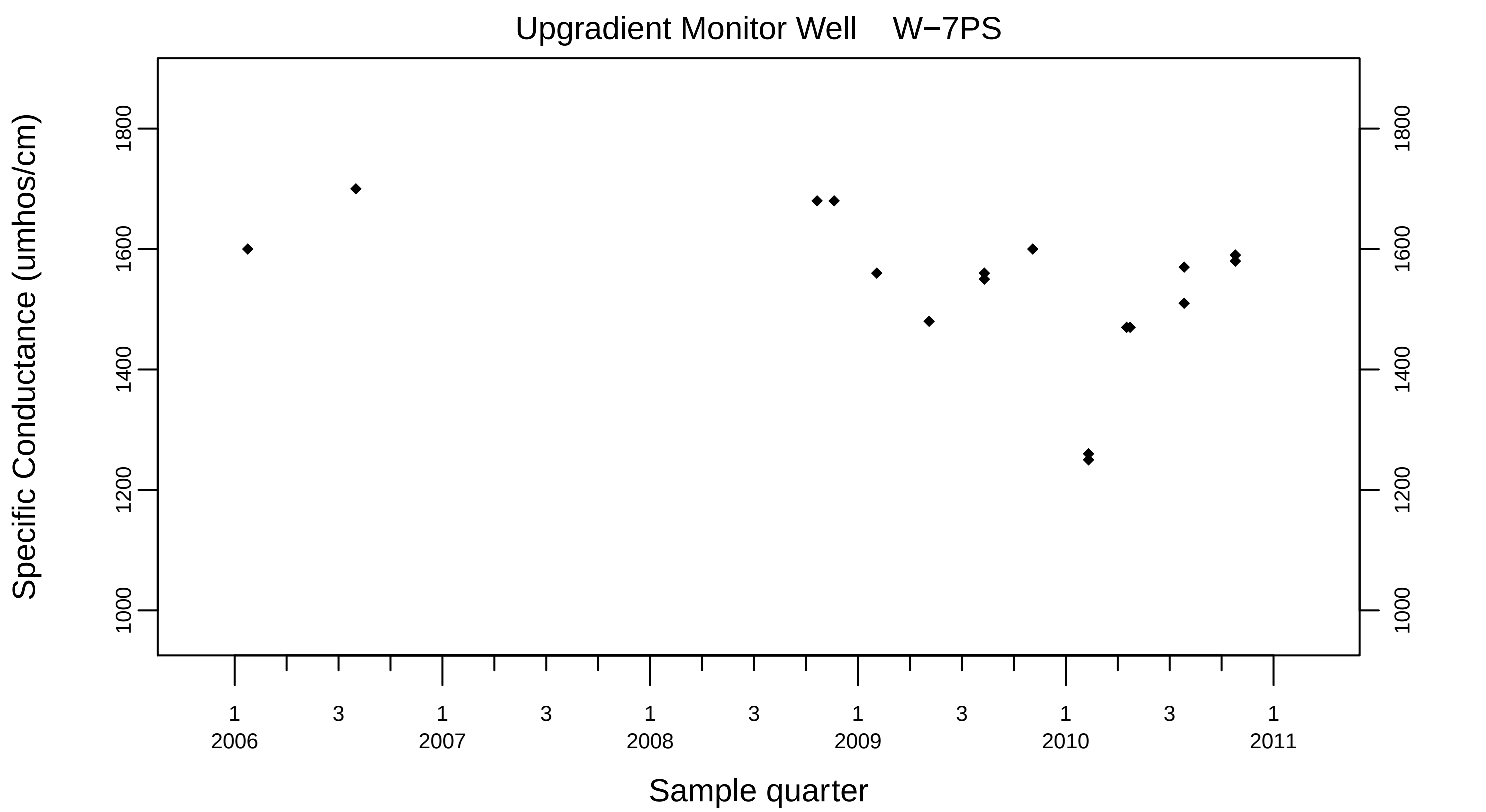
Sewage Ponds Ground Water
pH (Units)



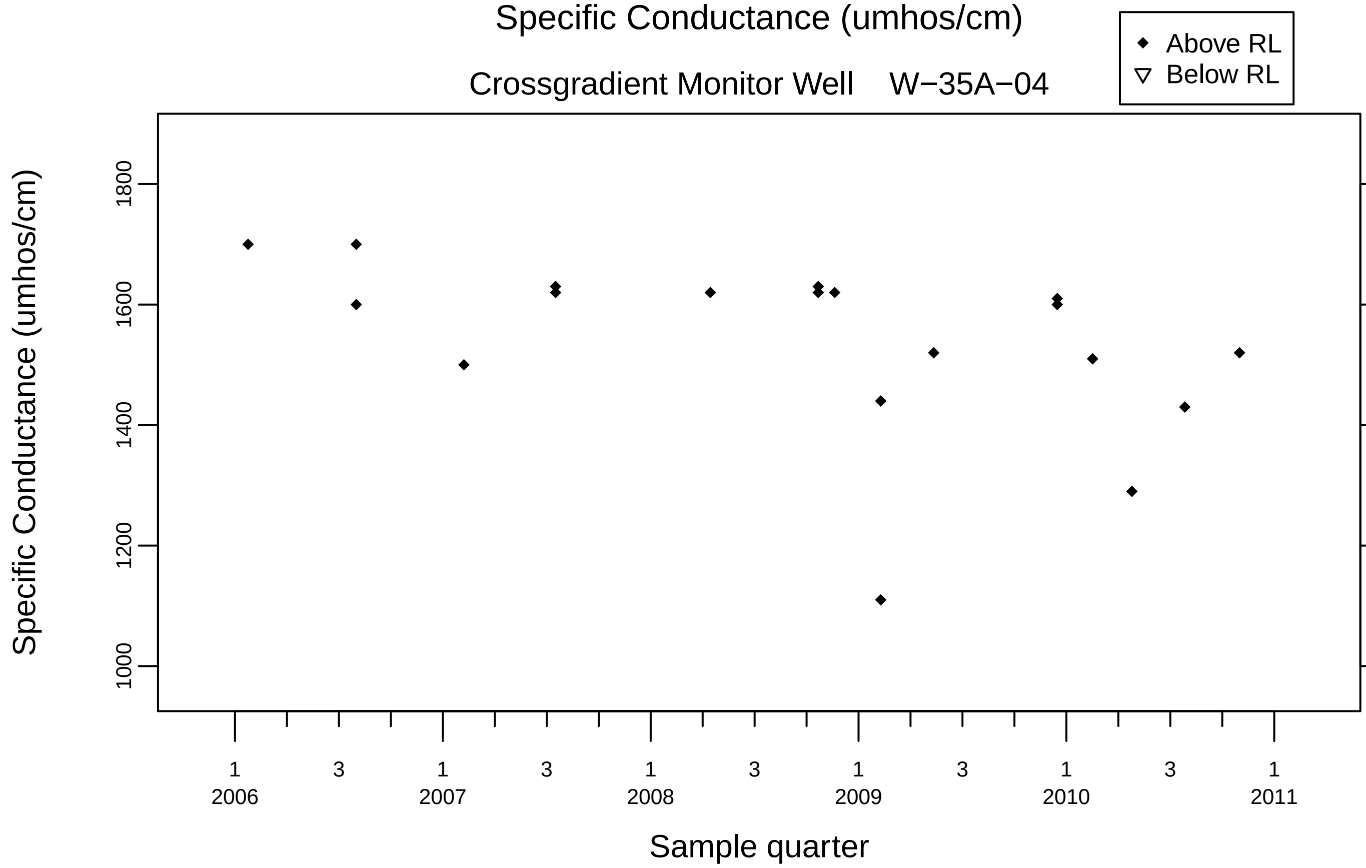


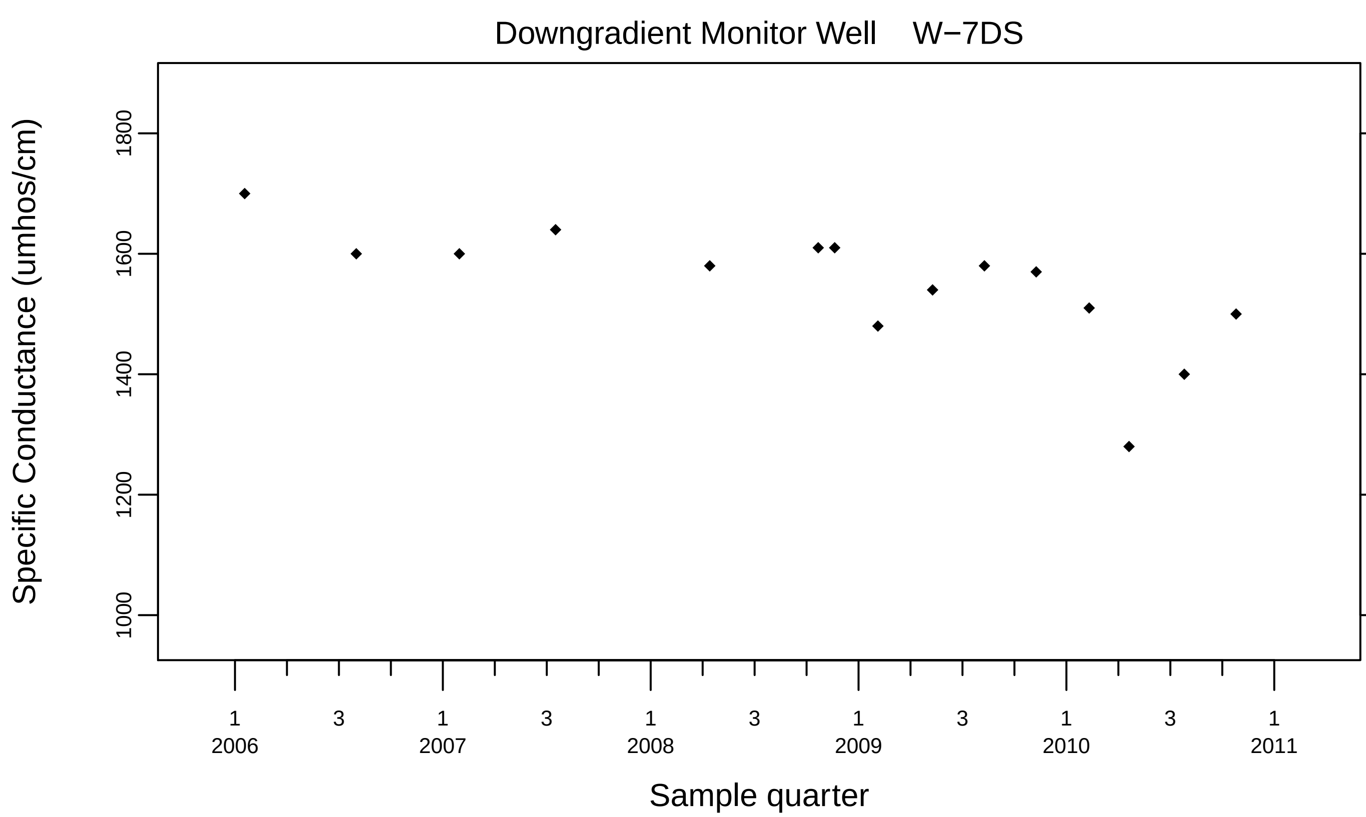

Sewage Ponds Ground Water
pH (Units)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
pH (Units)
8.2
8.0
7.8
7.6
7.4
7.2
1
2006
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

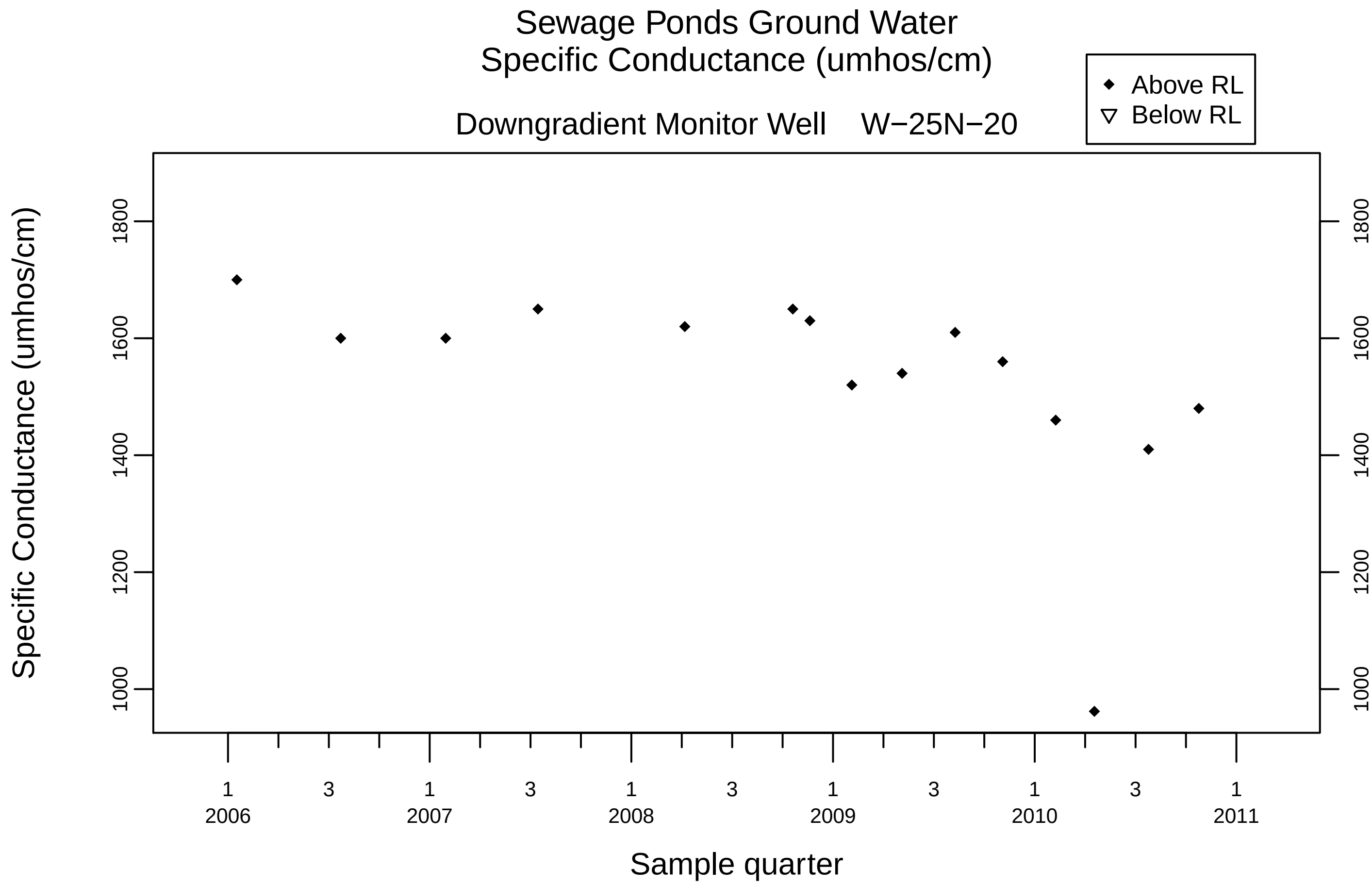

Sewage Ponds Ground Water
Specific Conductance (umhos/cm)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011
Sample quarter

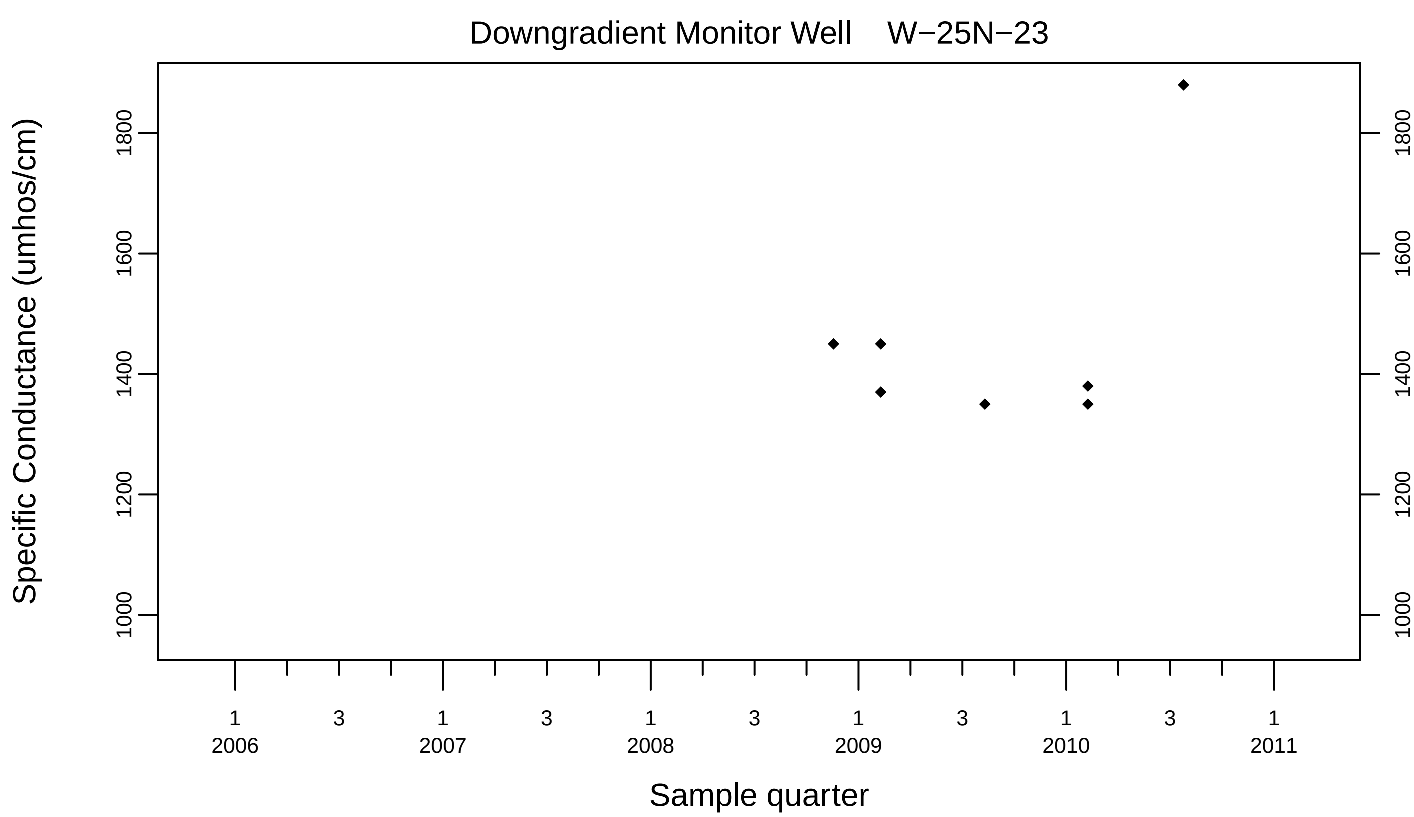

Upgradient Monitor Well W−7PS
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011
Sample quarter

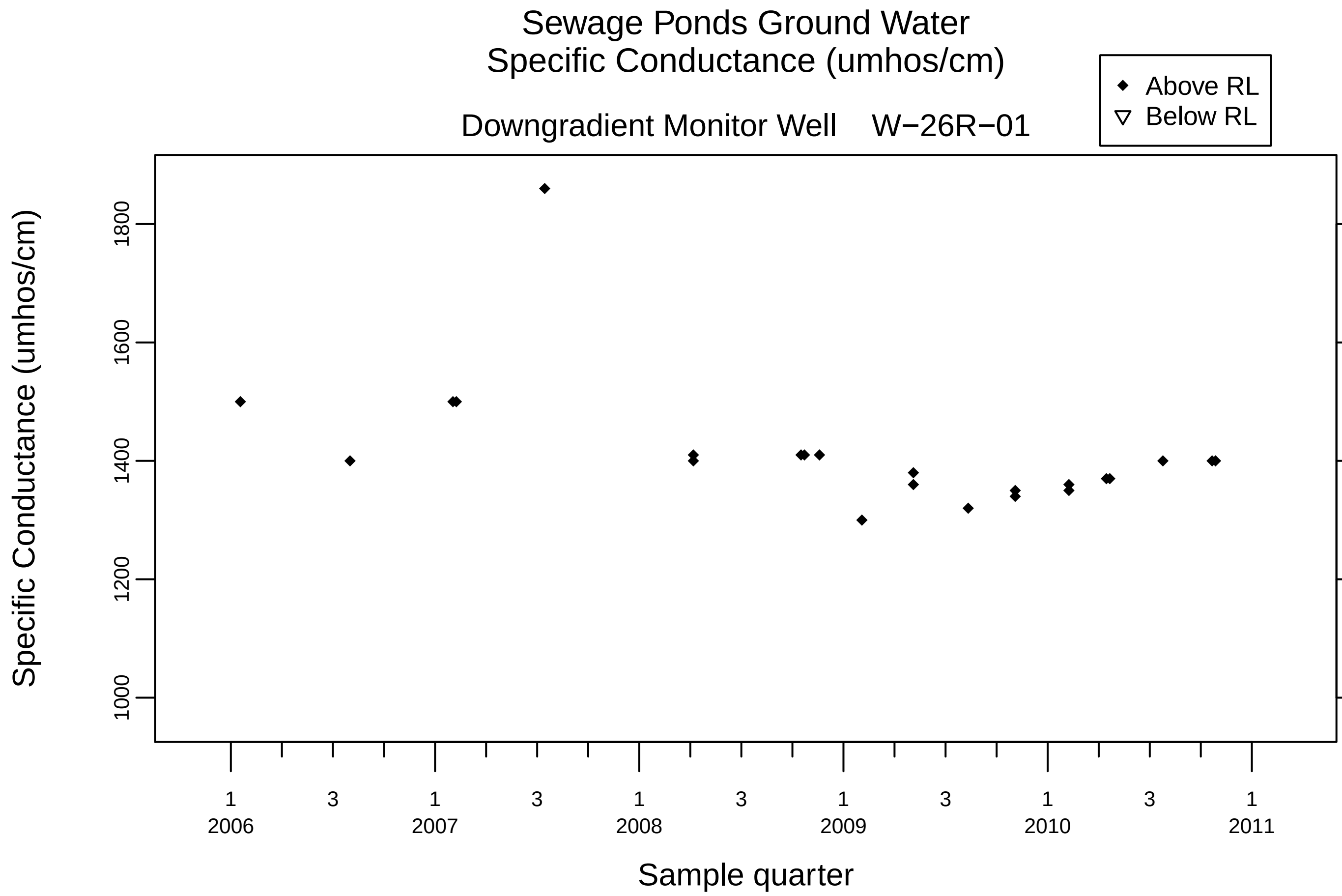
Sewage Ponds Ground Water
Specific Conductance (umhos/cm)

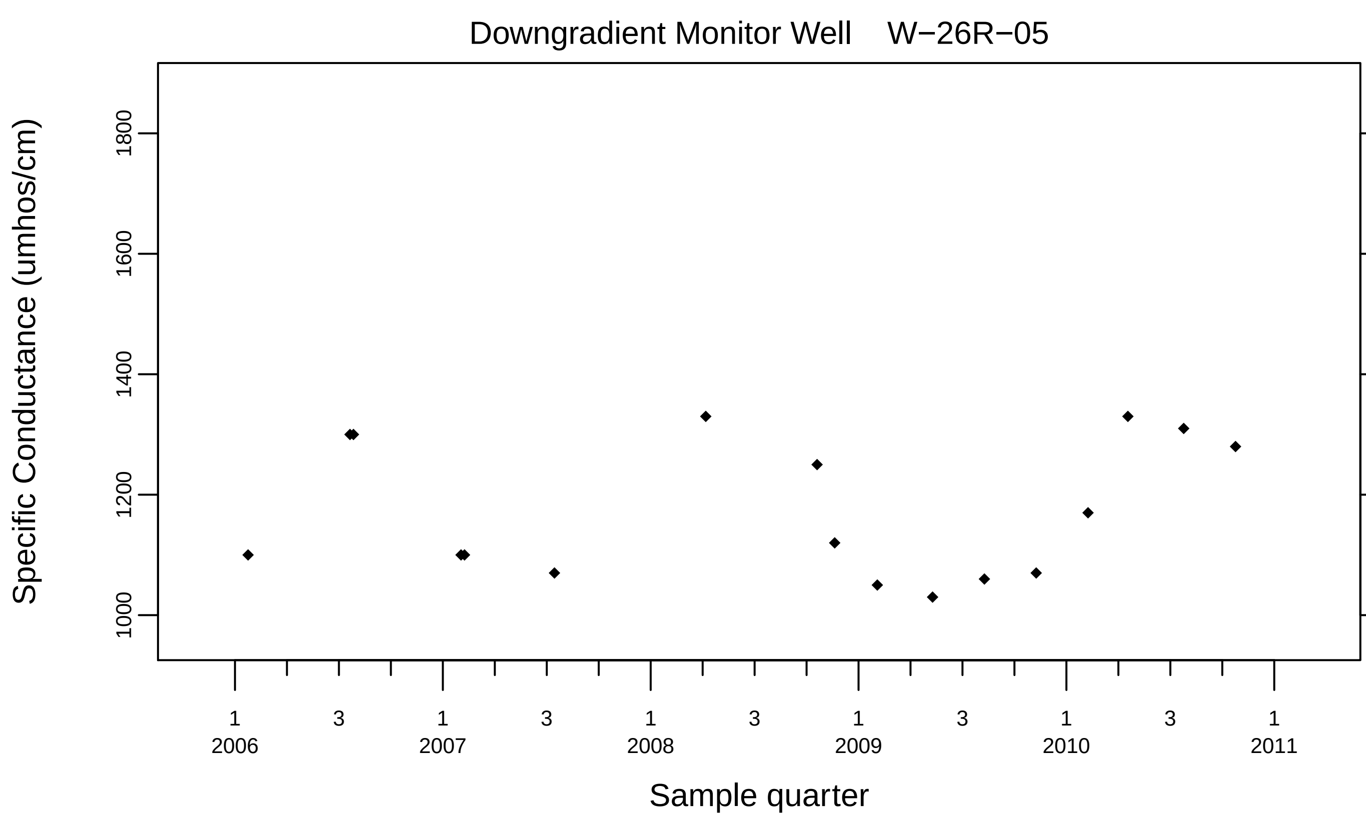


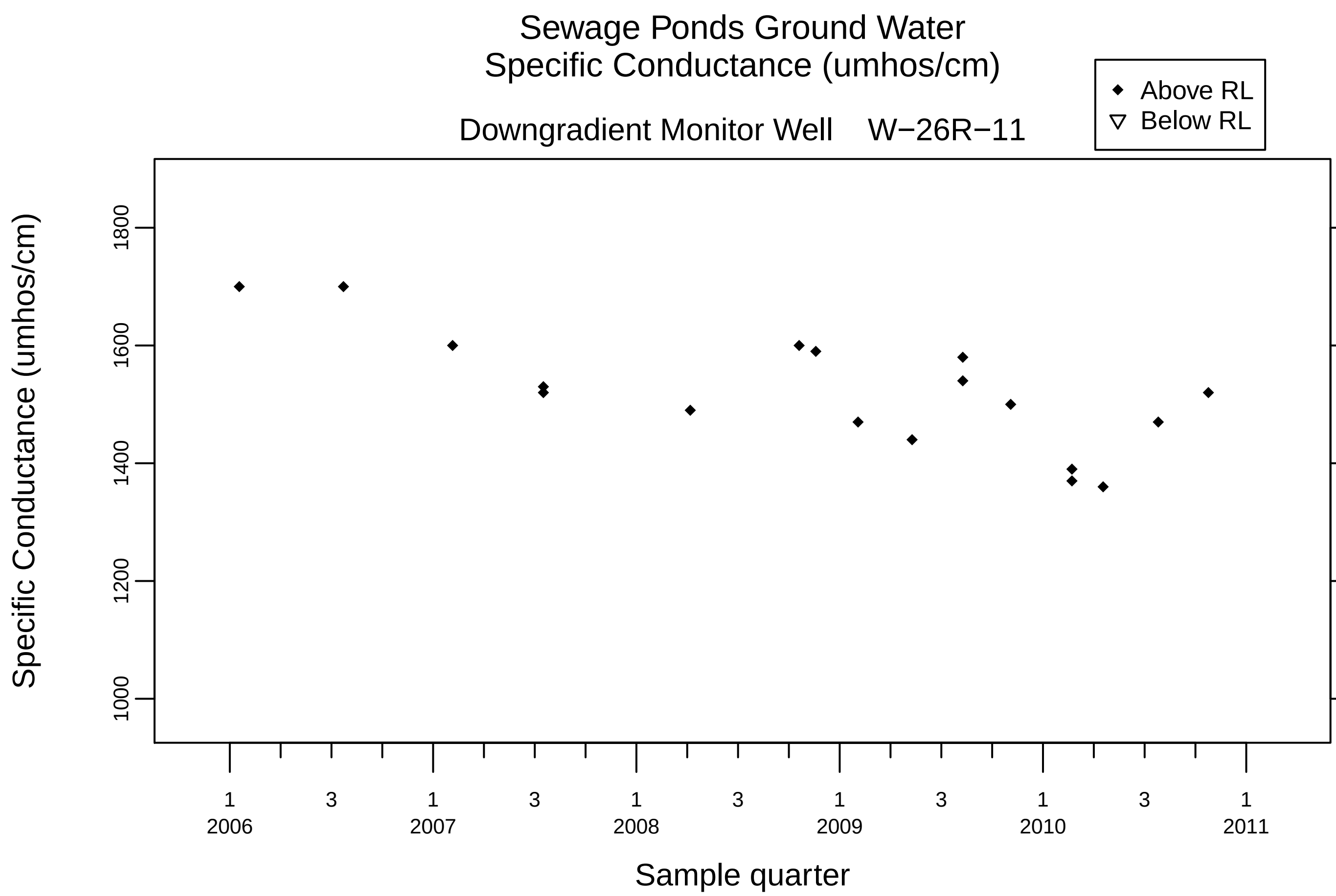



Sewage Ponds Ground Water
Specific Conductance (umhos/cm)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011
Sample quarter

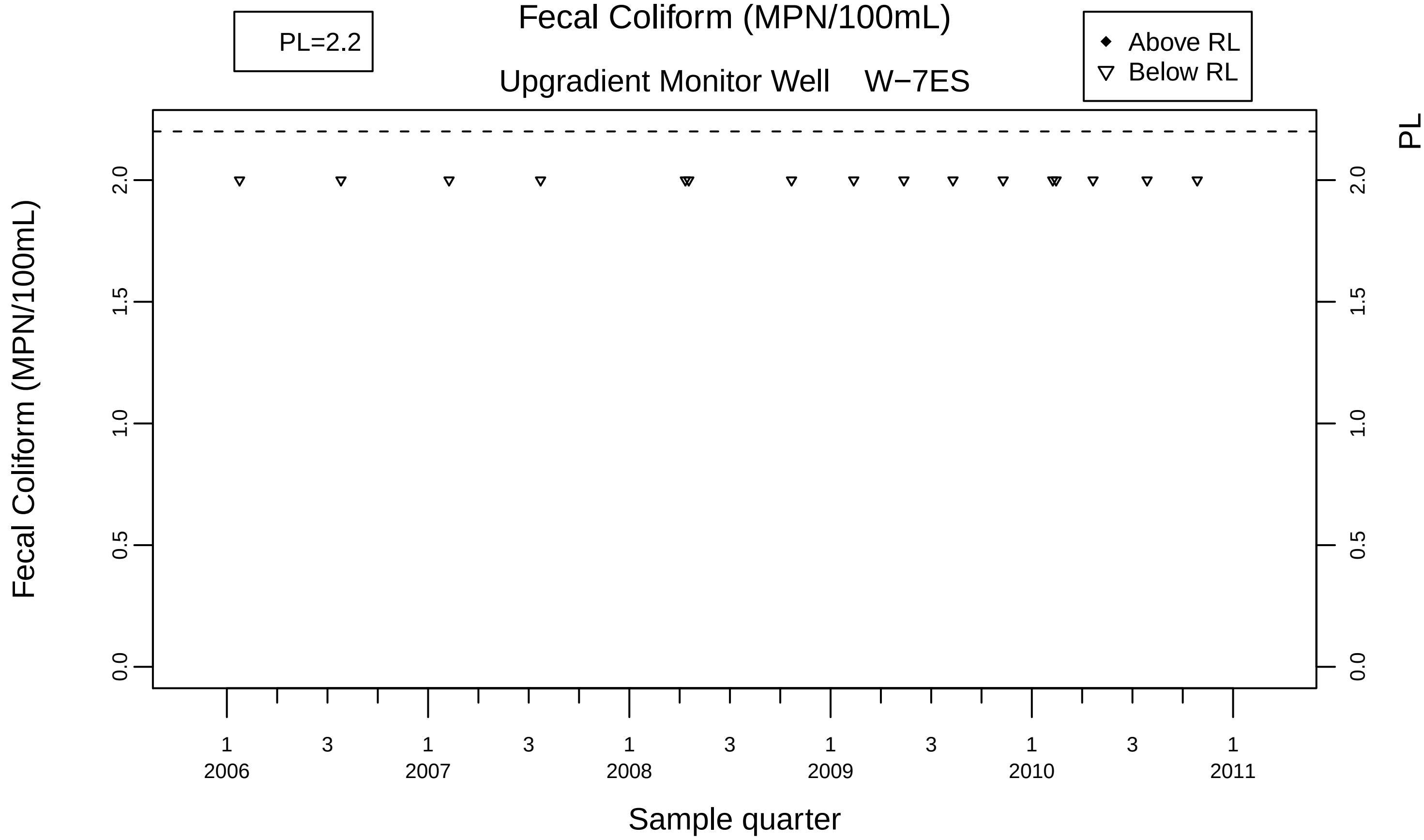

Downgradient Monitor Well W−25N−23
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011
Sample quarter

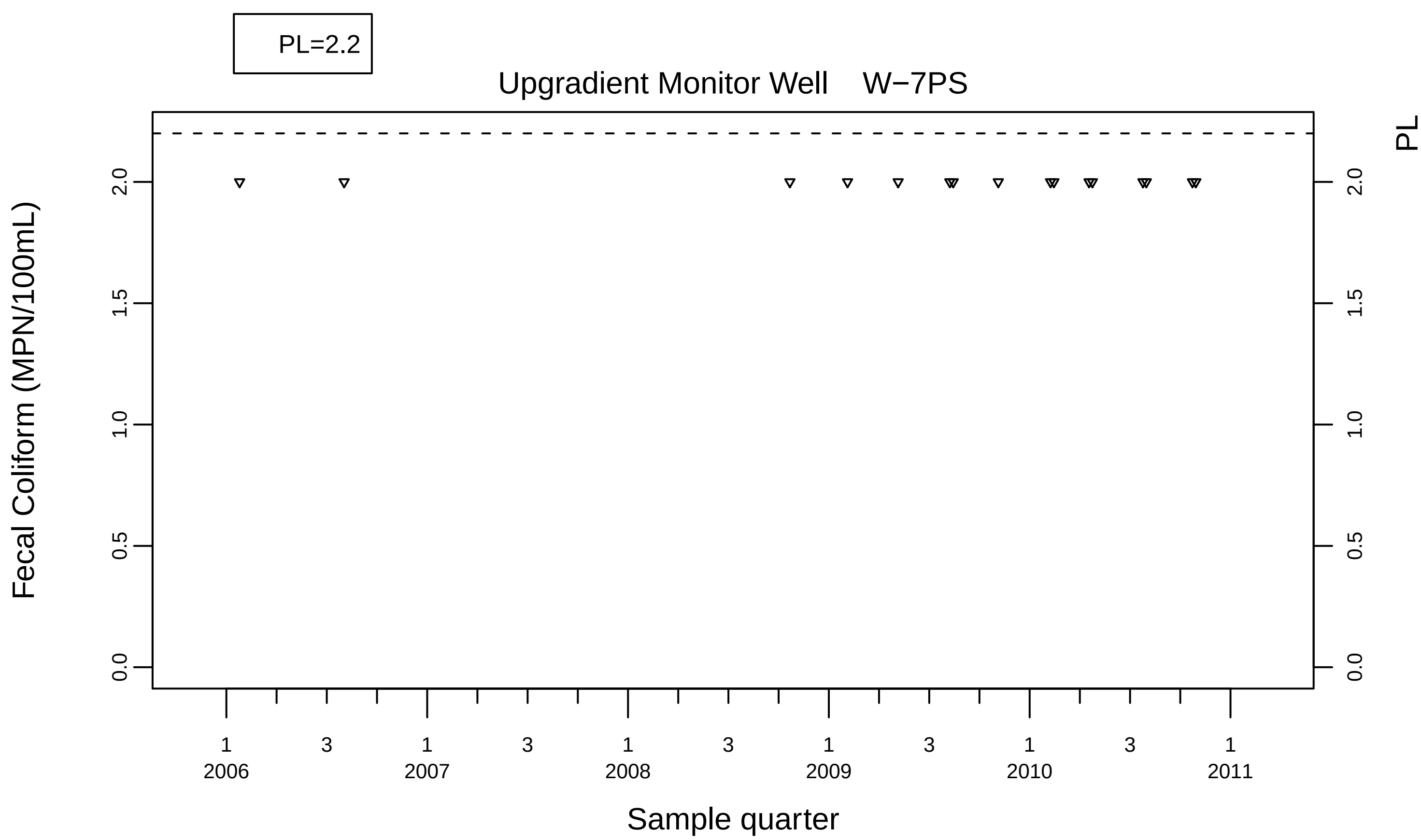

Sewage Ponds Ground Water
Specific Conductance (umhos/cm)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011
Sample quarter

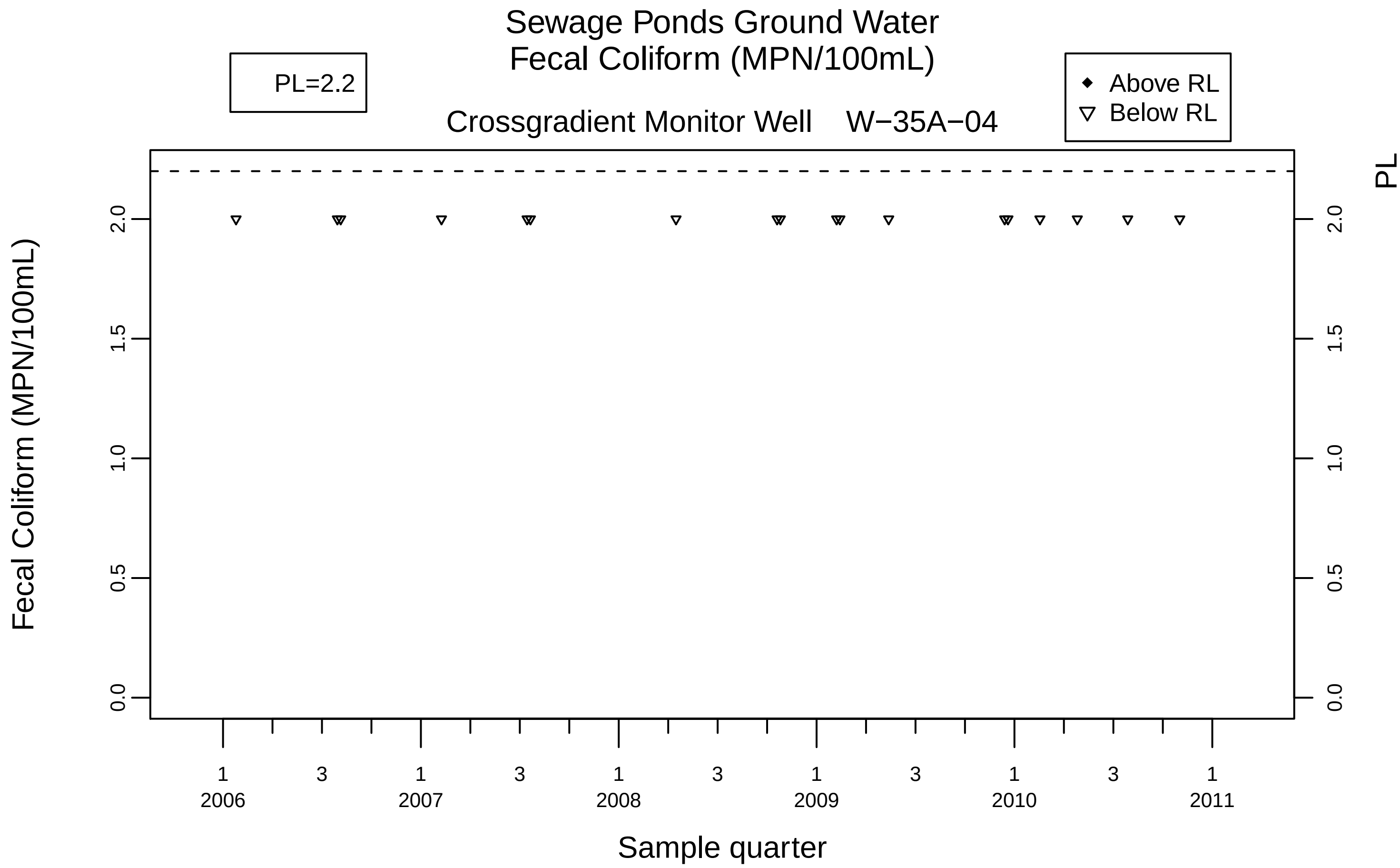

Downgradient Monitor Well W−26R−05
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1 3 1 3 1 3 1 3 1 3 1
2006 2007 2008 2009 2010 2011
Sample quarter

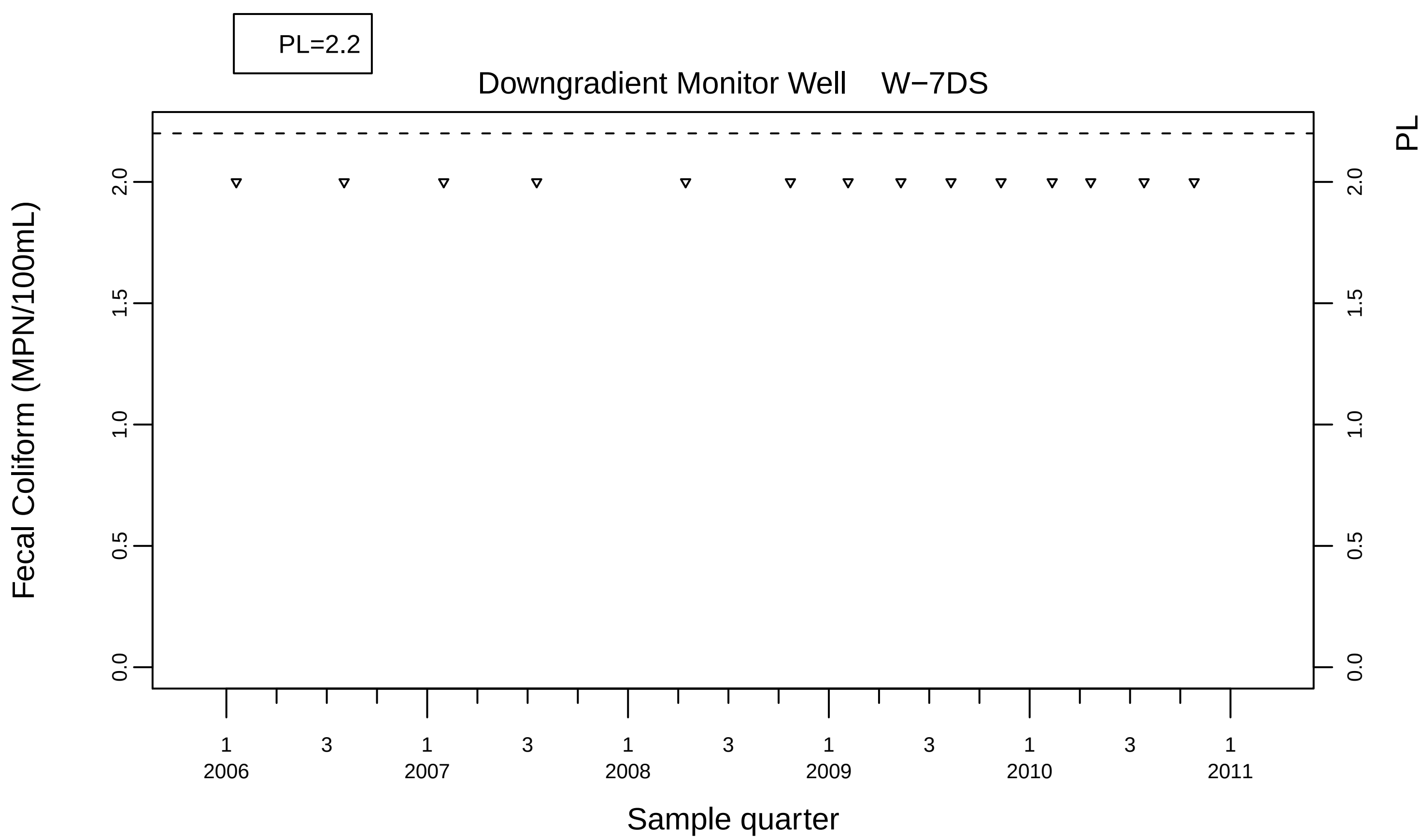

Sewage Ponds Ground Water
Specific Conductance (umhos/cm)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Specific Conductance (umhos/cm)
1000
1200
1400
1600
1800
1
3
2006
2007
2008
2009
2010
2011
Sample quarter

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

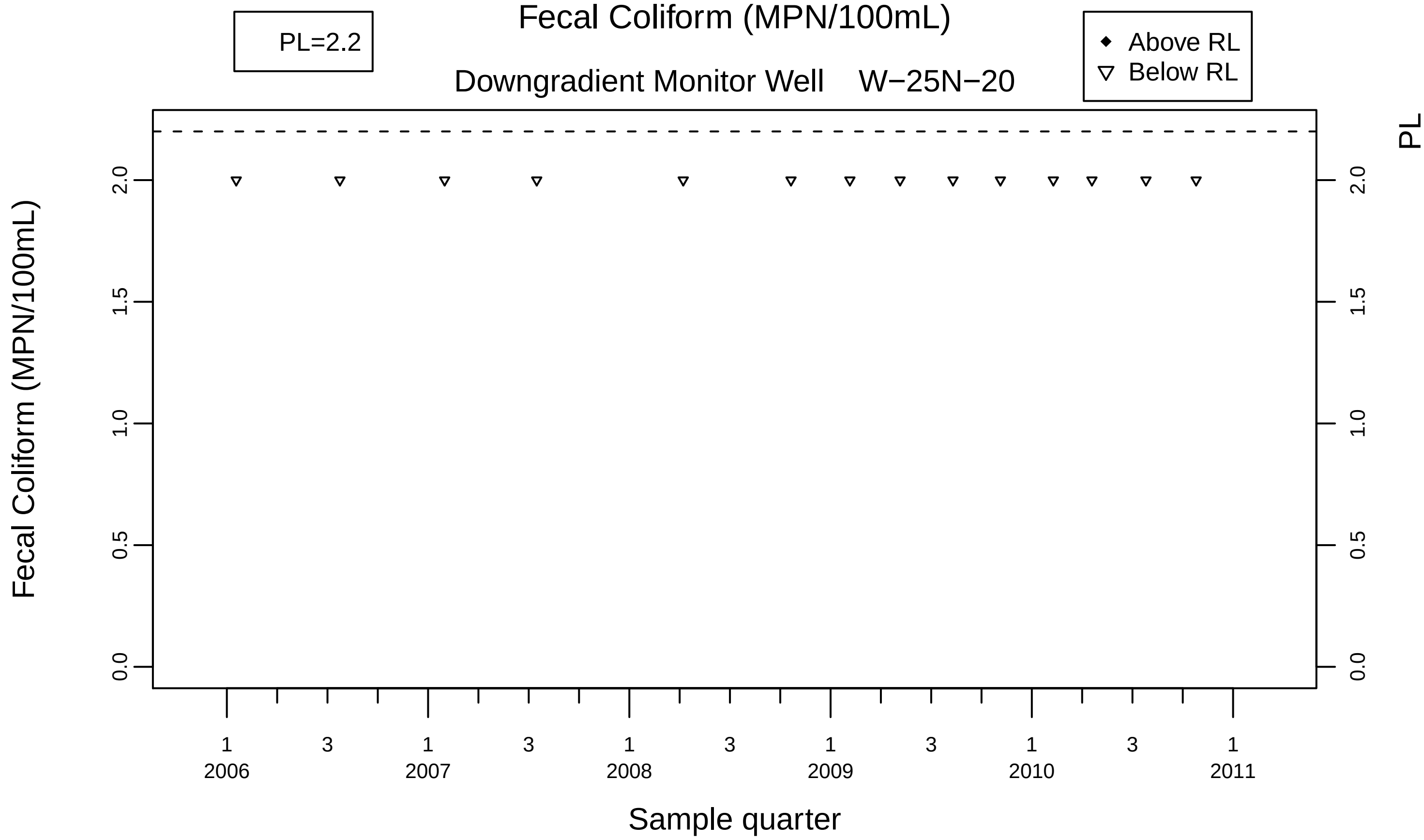


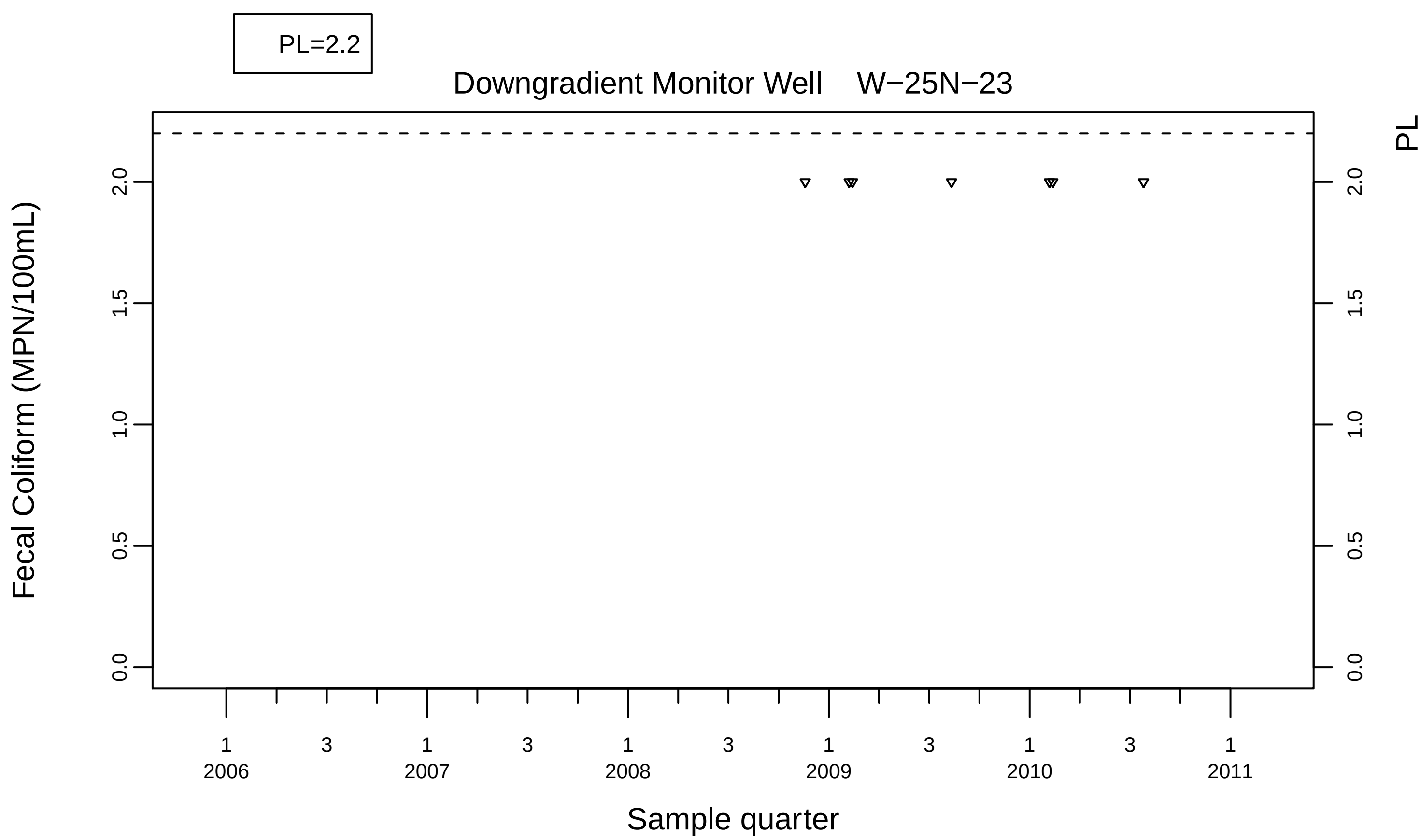


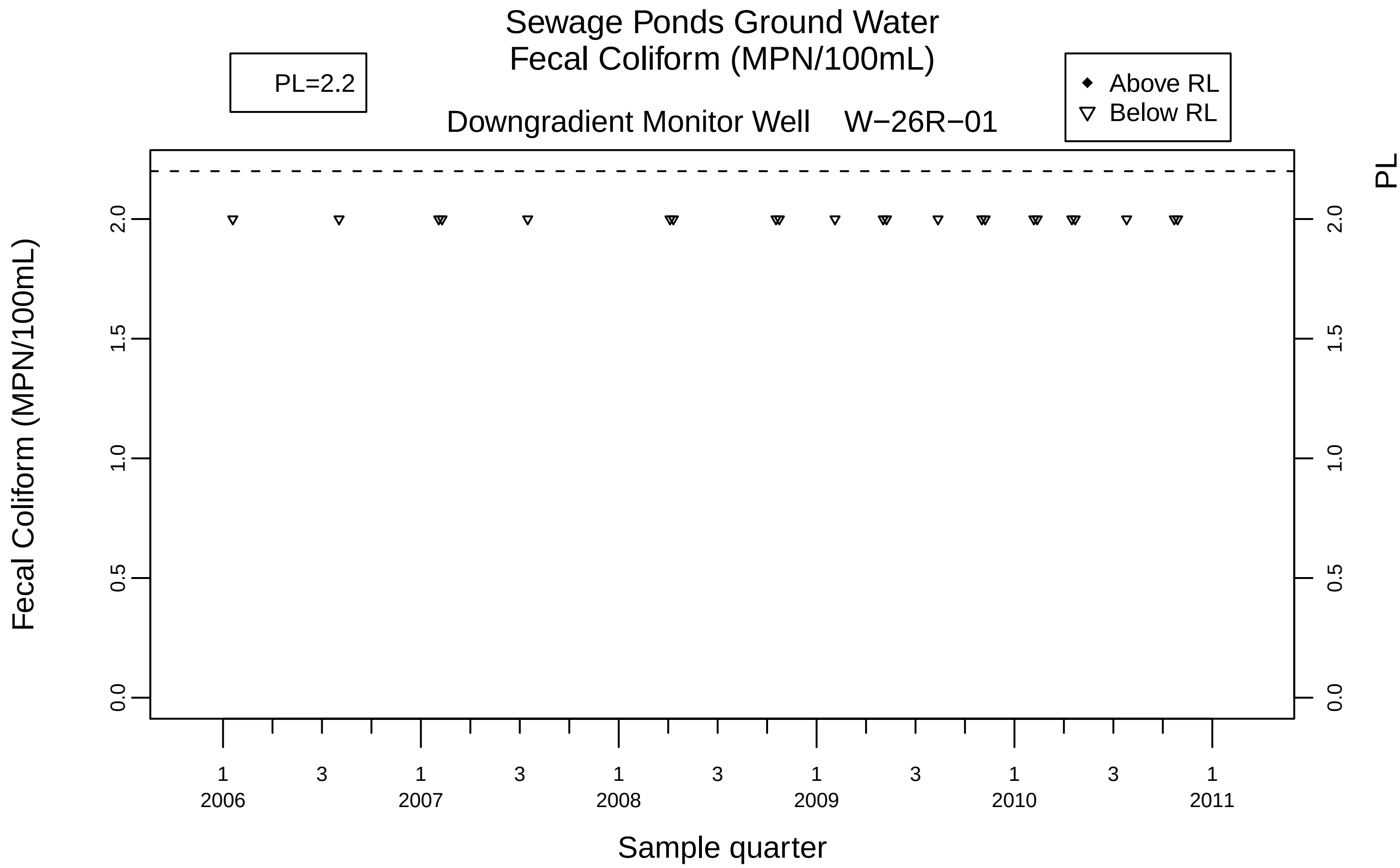

Sewage Ponds Ground Water
Fecal Coliform (MPN/100mL)
PL=2.2
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
PL
Fecal Coliform (MPN/100mL)
0.0
0.5
1.0
1.5
2.0
1
3
1
3
1
3
1
3
1
3
1
2006
2007
2008
2009
2010
2011
Sample quarter

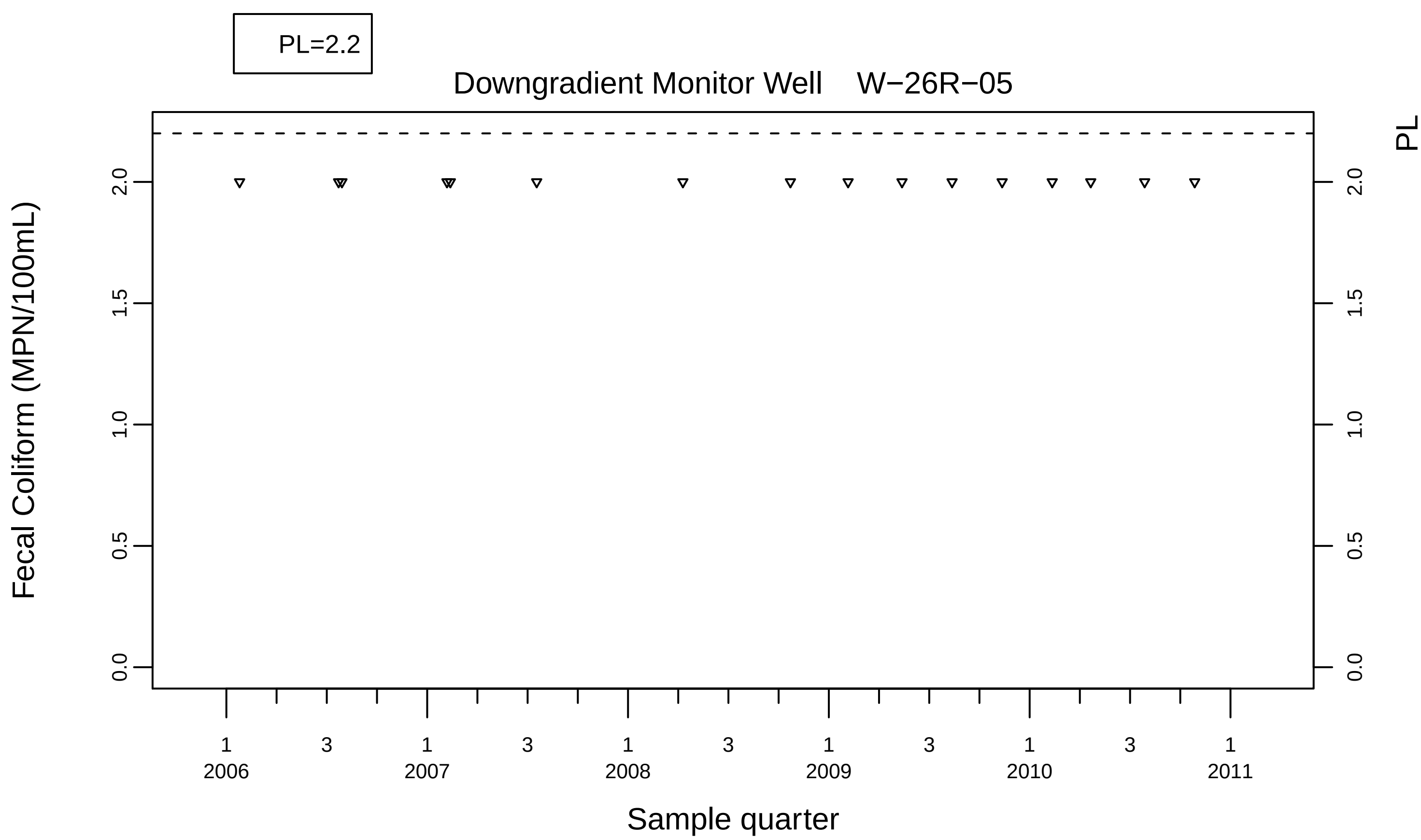

PL=2.2
Downgradient Monitor Well W−7DS
PL
Fecal Coliform (MPN/100mL)
0.0
0.5
1.0
1.5
2.0
1
3
1
3
1
3
1
3
1
3
1
2006
2007
2008
2009
2010
2011
Sample quarter

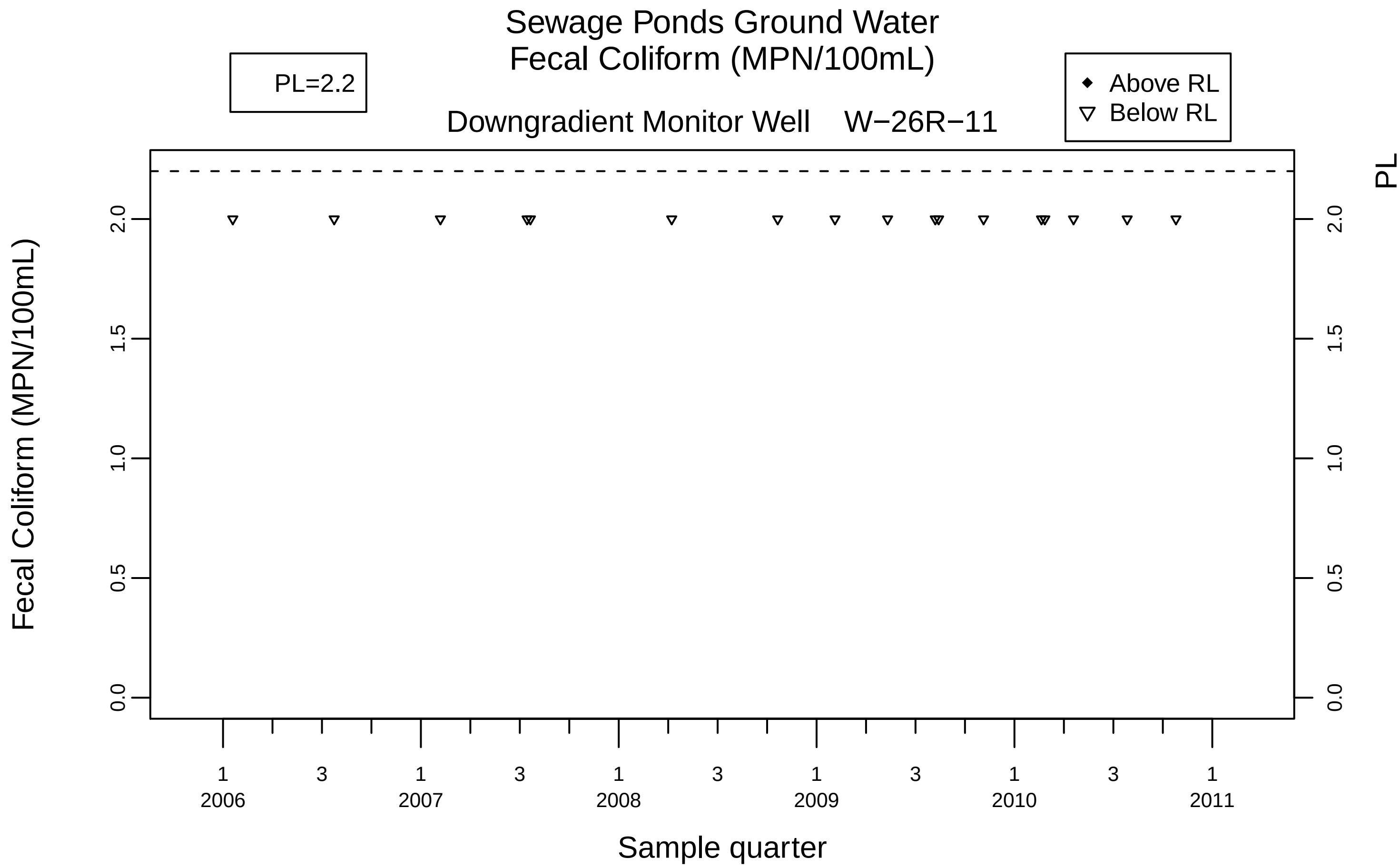
Sewage Ponds Ground Water
Fecal Coliform (MPN/100mL)

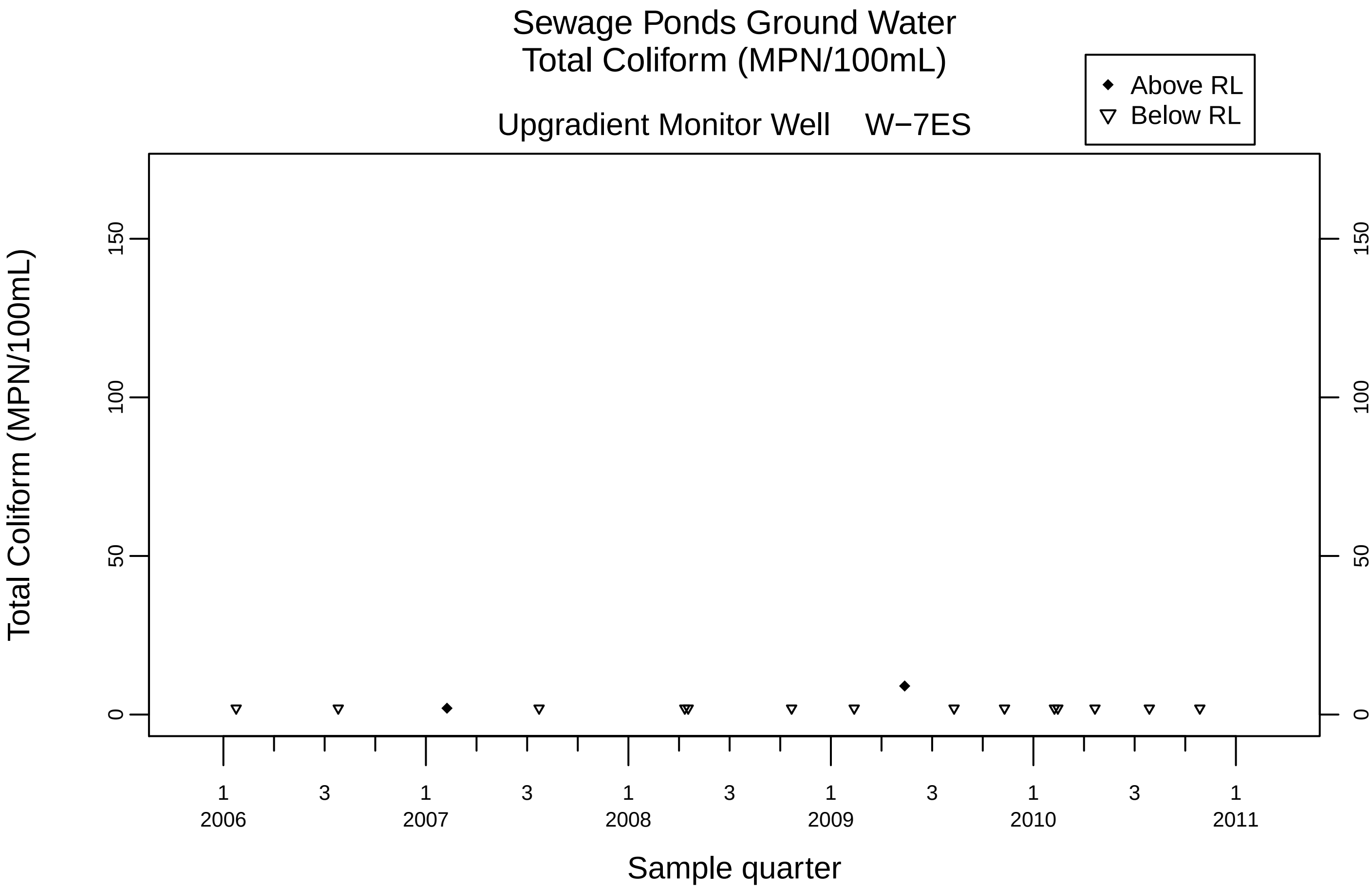


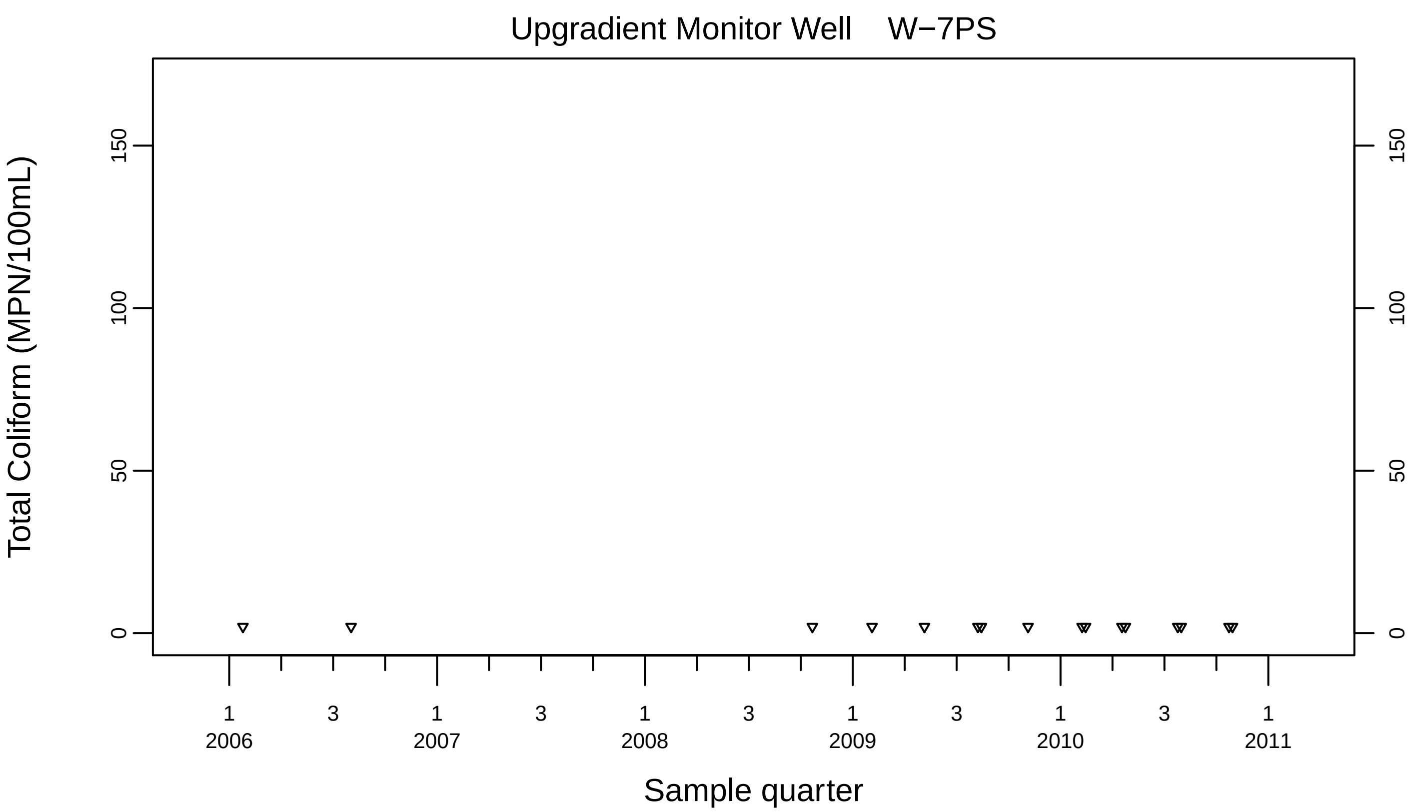


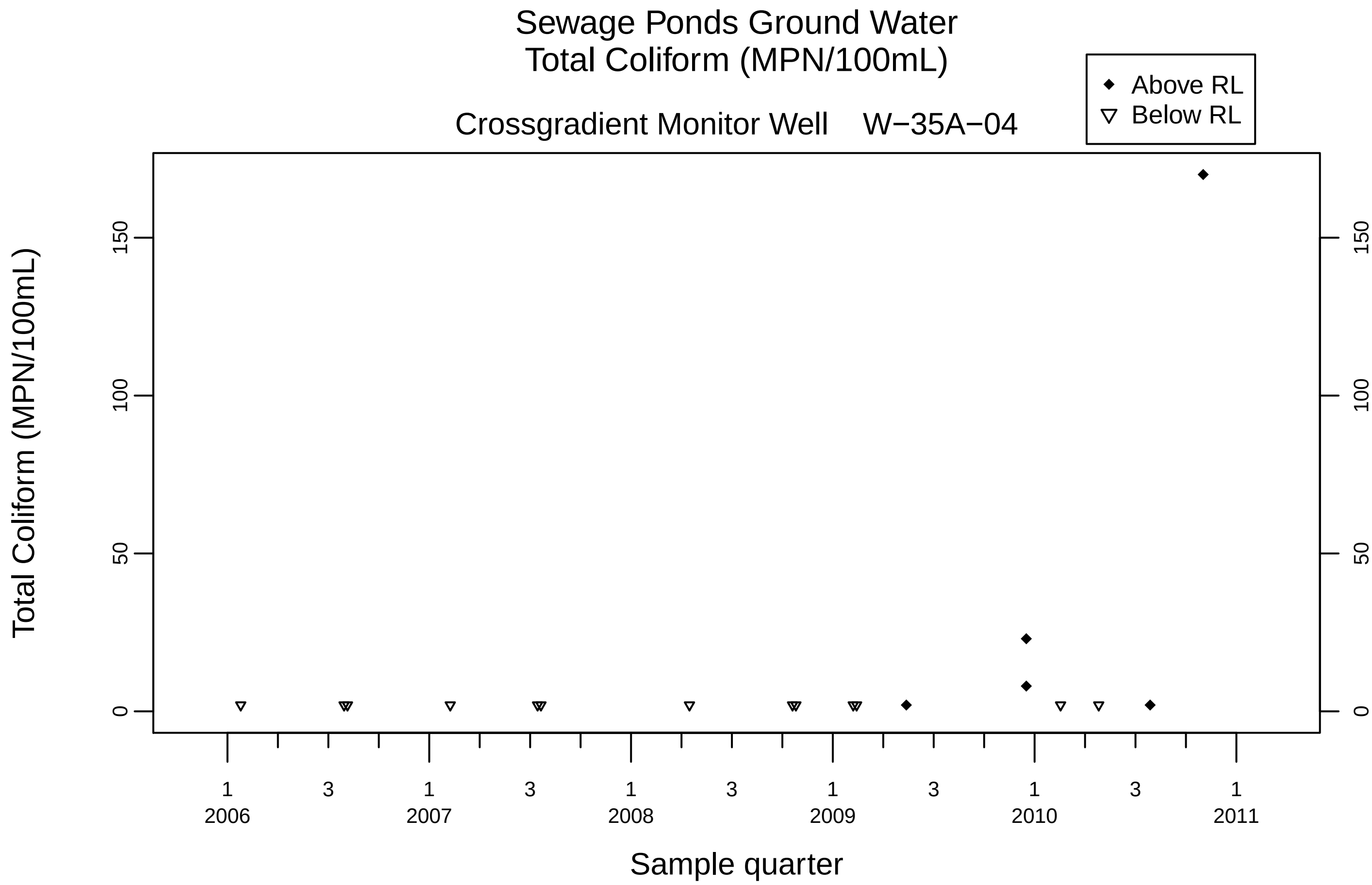

Sewage Ponds Ground Water
Fecal Coliform (MPN/100mL)
PL=2.2
Above RL
Below RL
Downgradient Monitor Well W−26R−01
PL
Fecal Coliform (MPN/100mL)
0.0
0.5
1.0
1.5
2.0
1
3
2006
2007
2008
2009
2010
2011
Sample quarter

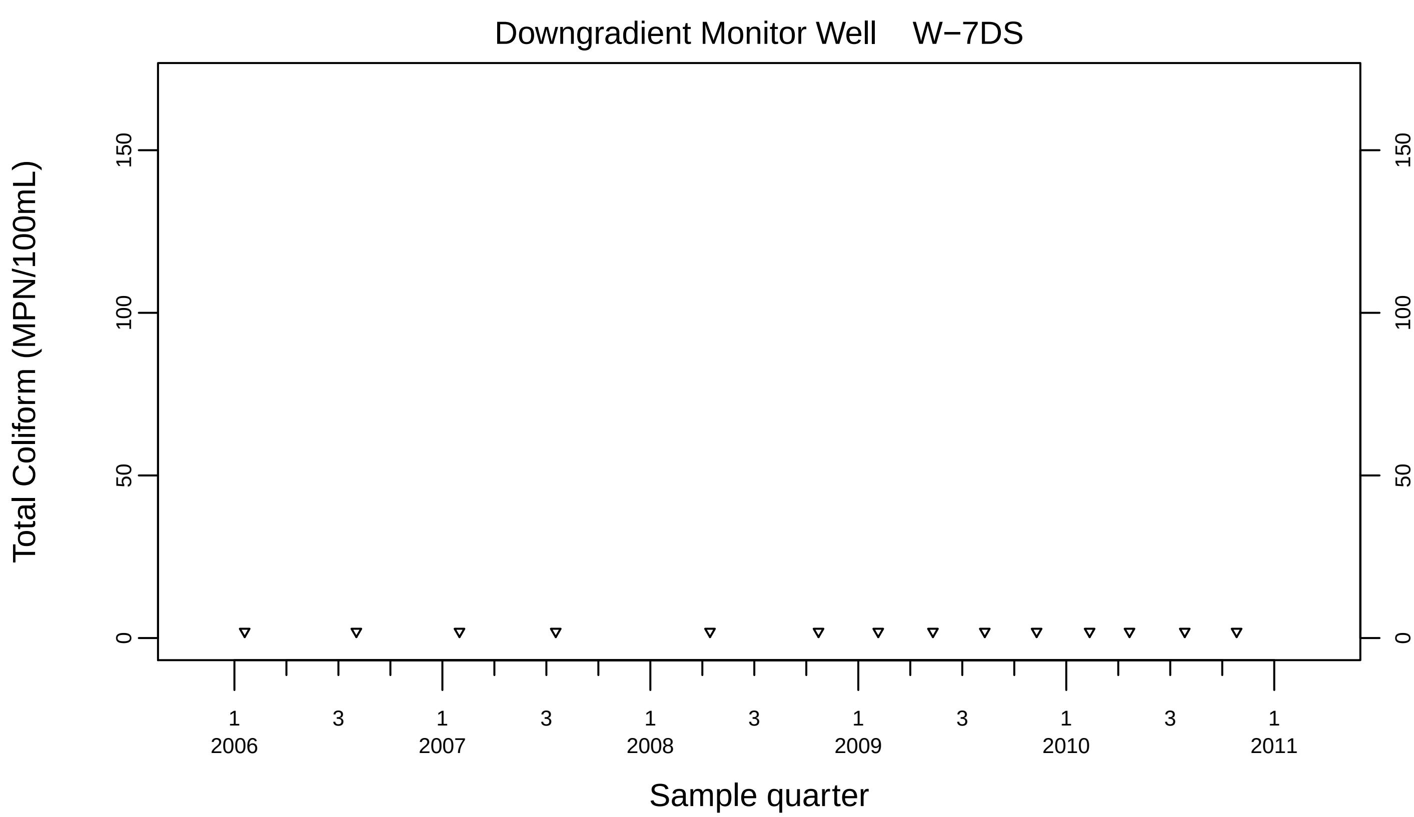

PL=2.2
Downgradient Monitor Well W−26R−05
PL
Fecal Coliform (MPN/100mL)
0.0
0.5
1.0
1.5
2.0
1
3
2006
2007
2008
2009
2010
2011
Sample quarter


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

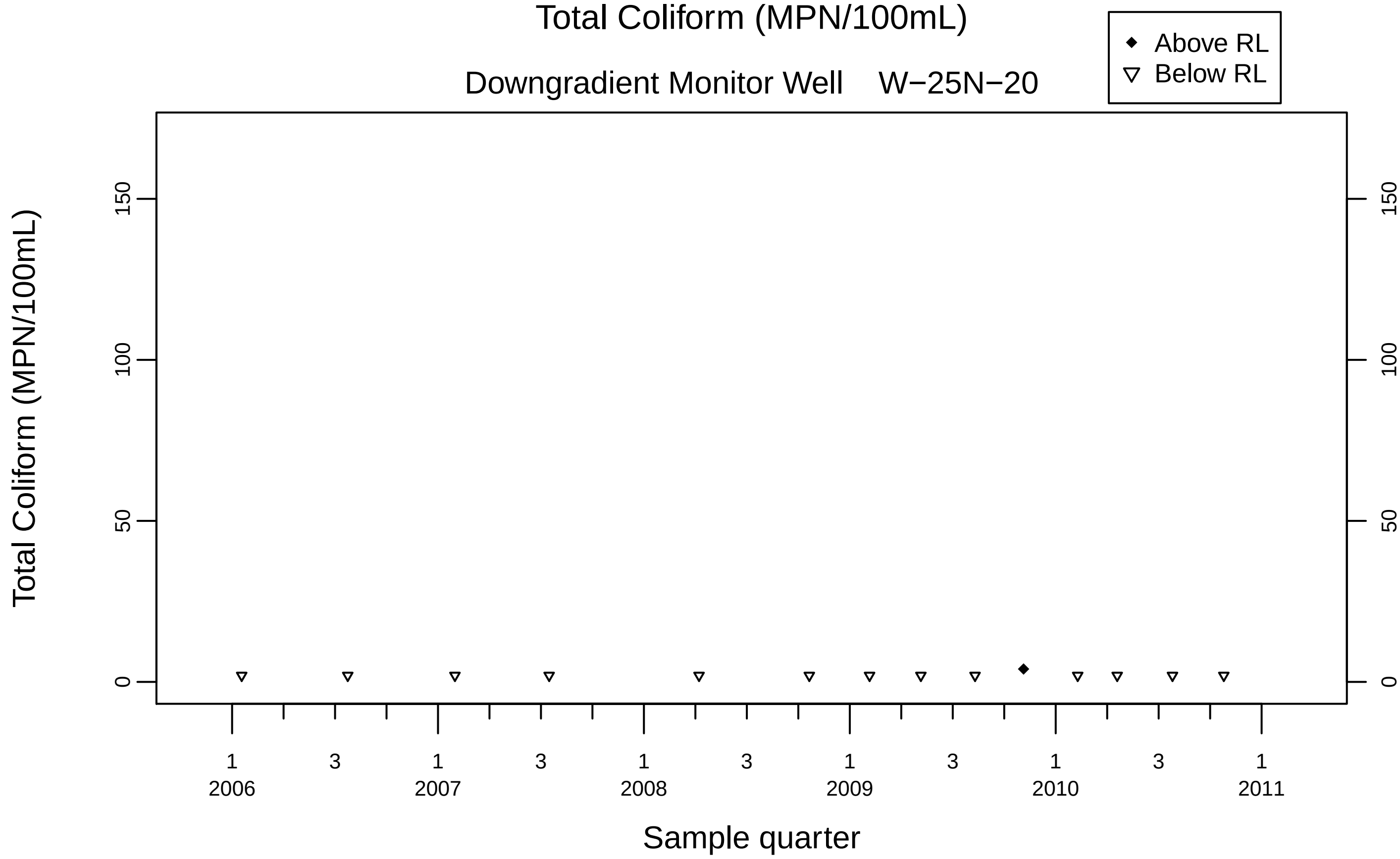

Sewage Ponds Ground Water
Total Coliform (MPN/100mL)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
Sample quarter

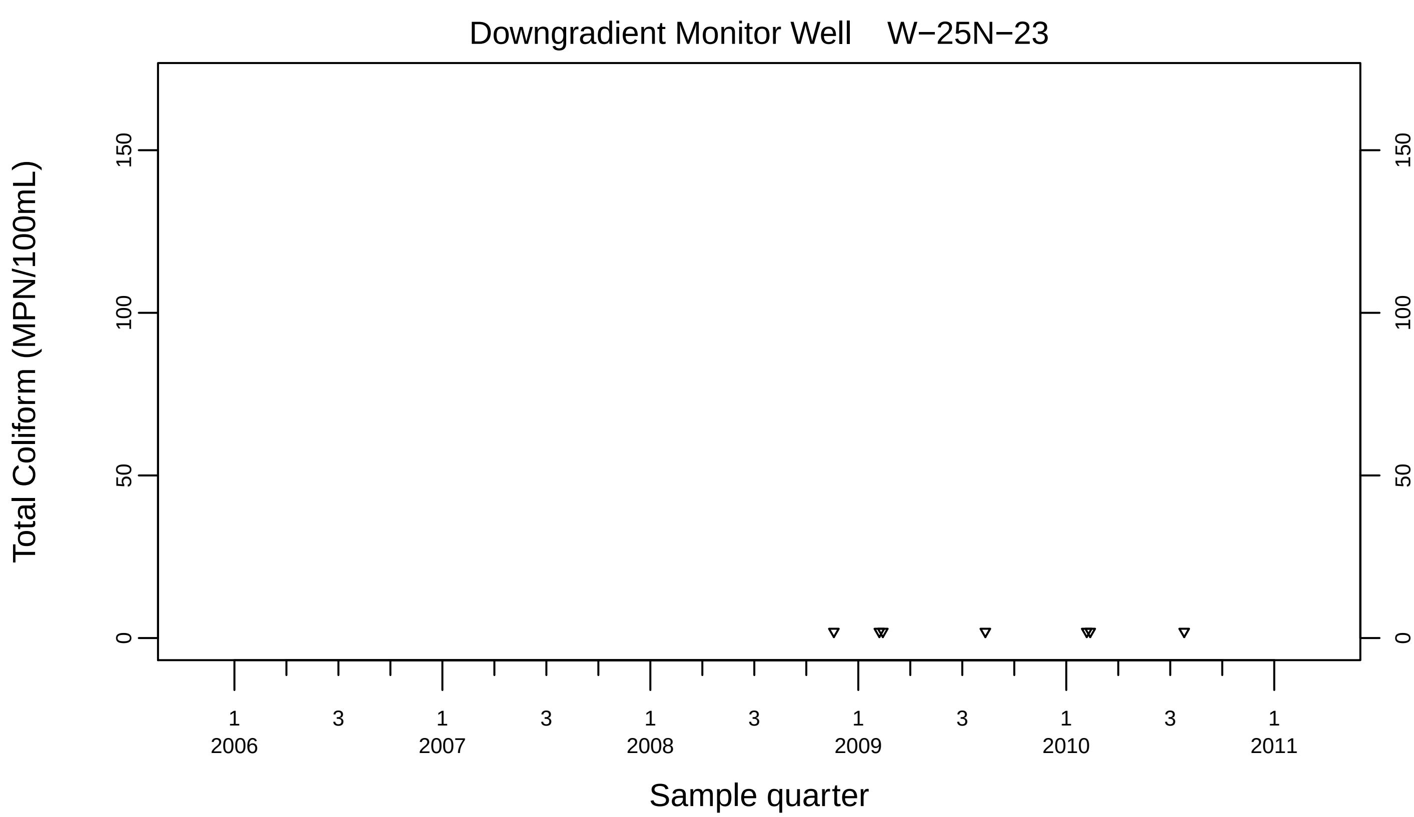

Upgradient Monitor Well W−7PS
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
Sample quarter


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

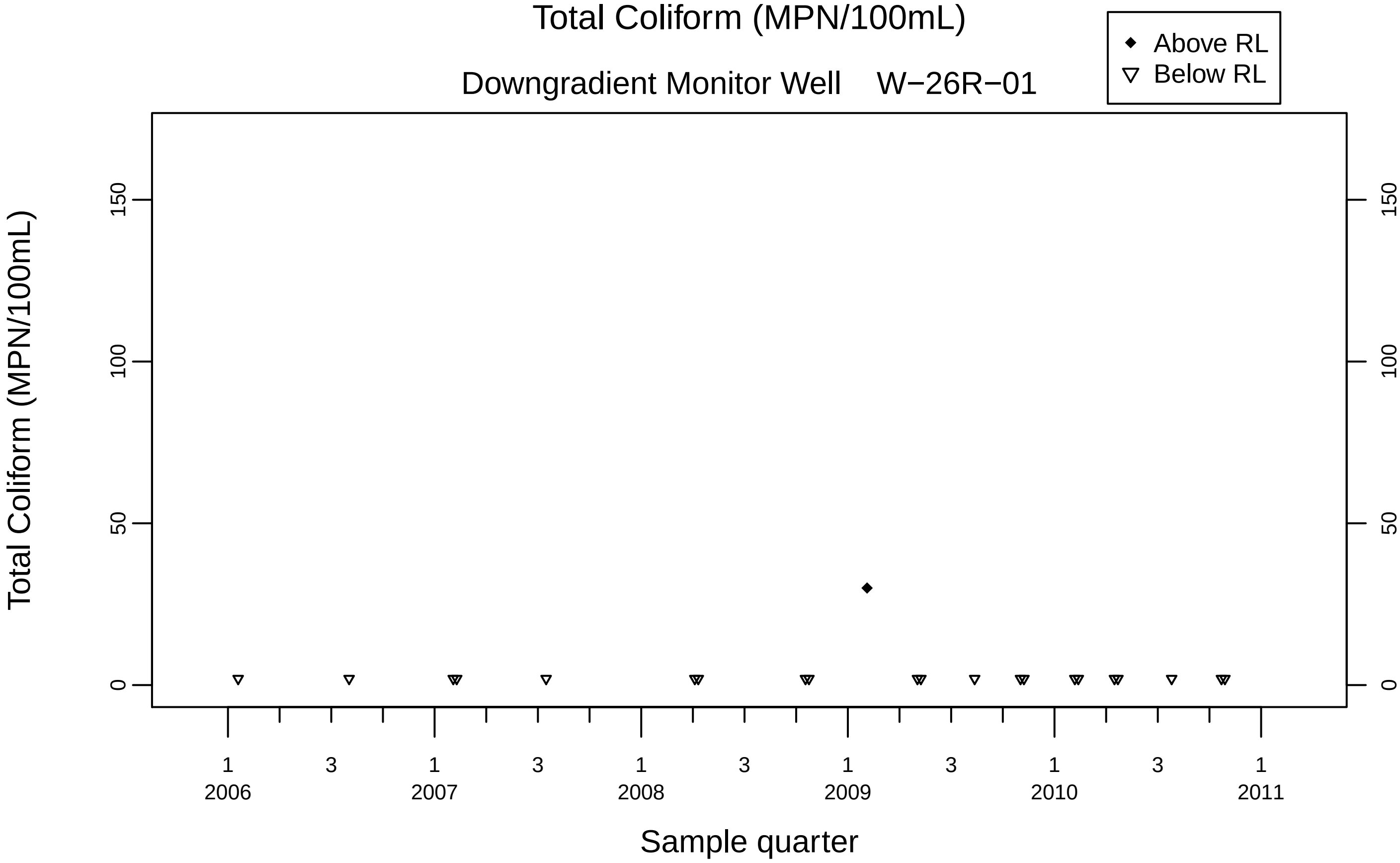

Downgradient Monitor Well W−7DS
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
Sample quarter

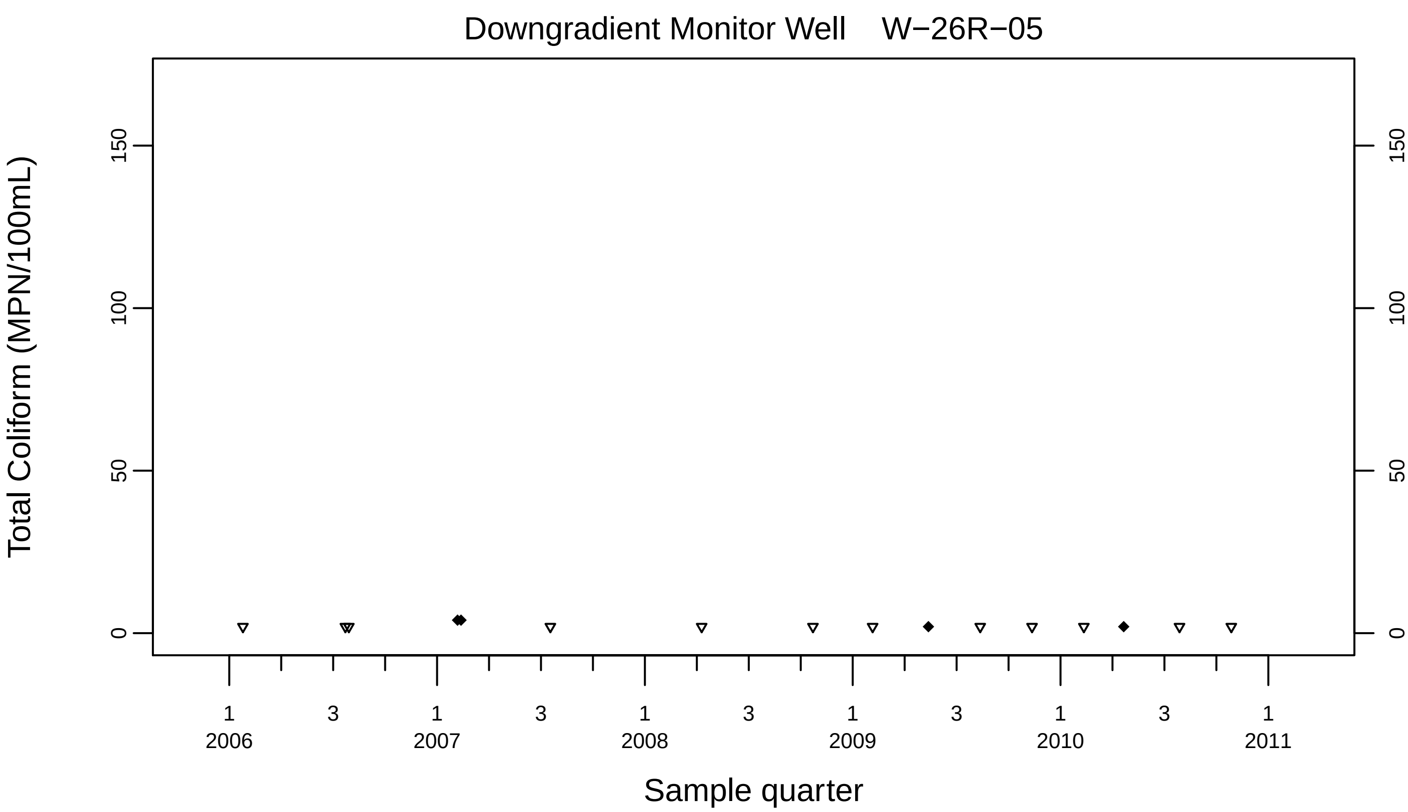
Sewage Ponds Ground Water
Total Coliform (MPN/100mL)

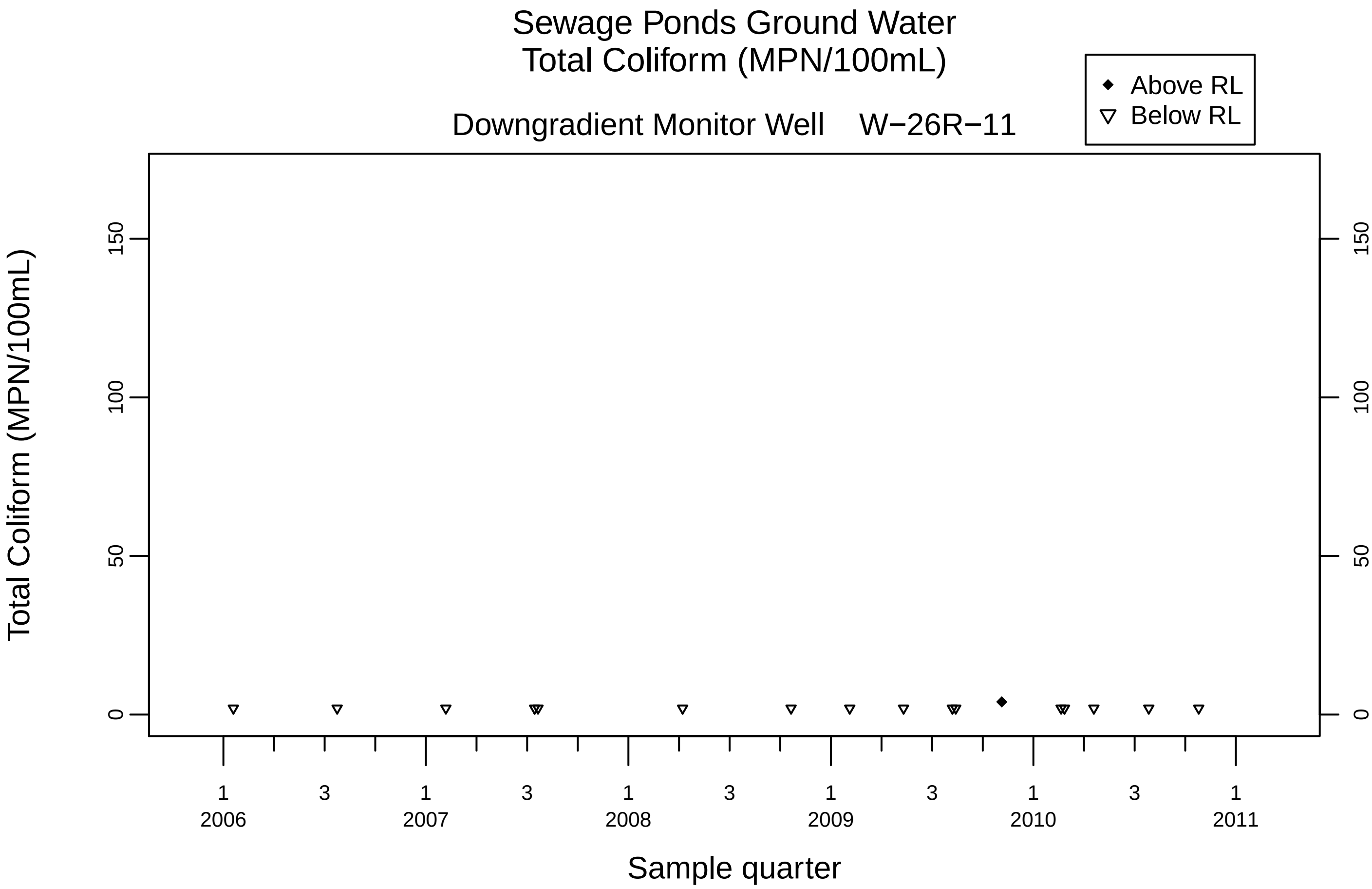




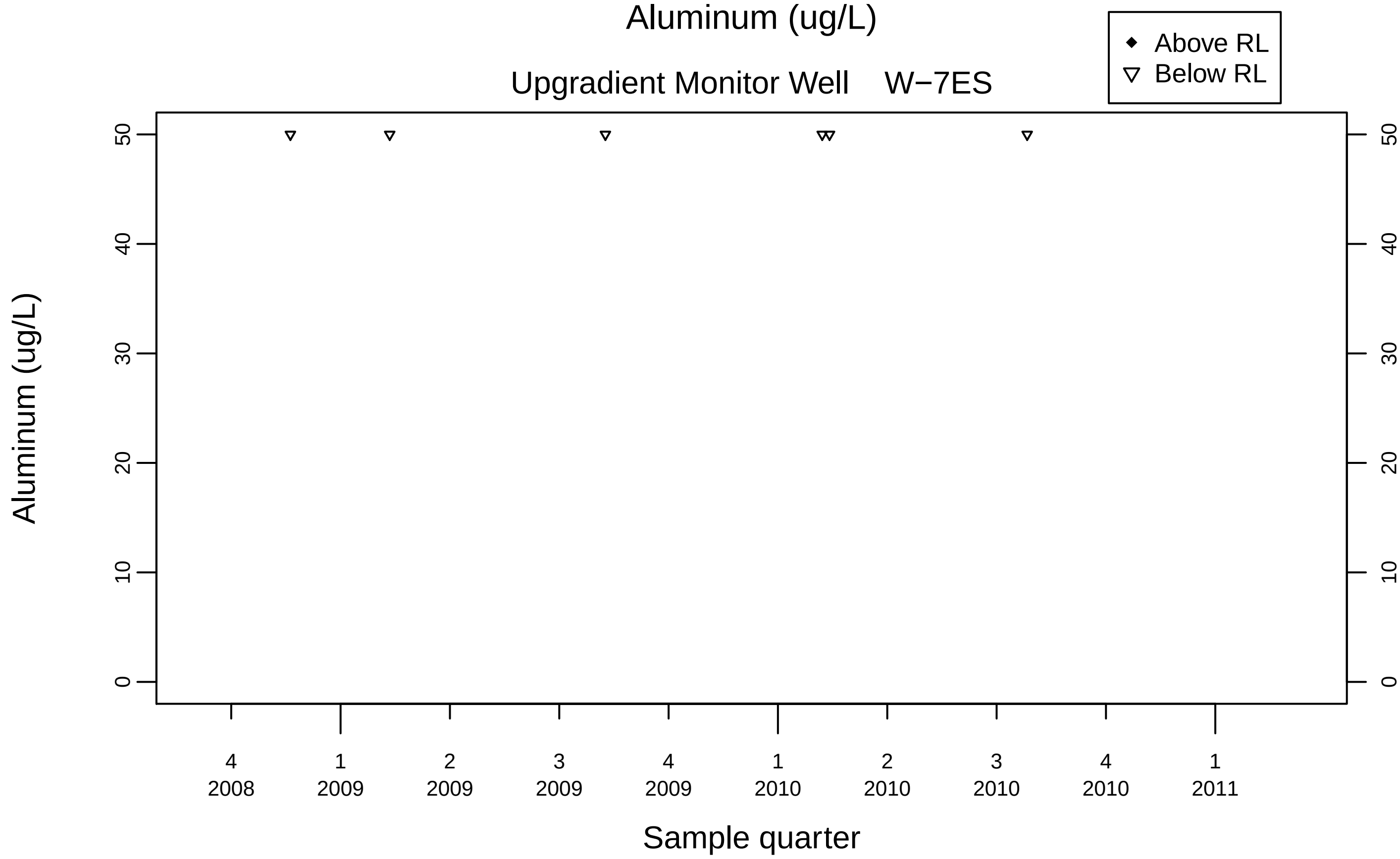
Sewage Ponds Ground Water
Total Coliform (MPN/100mL)

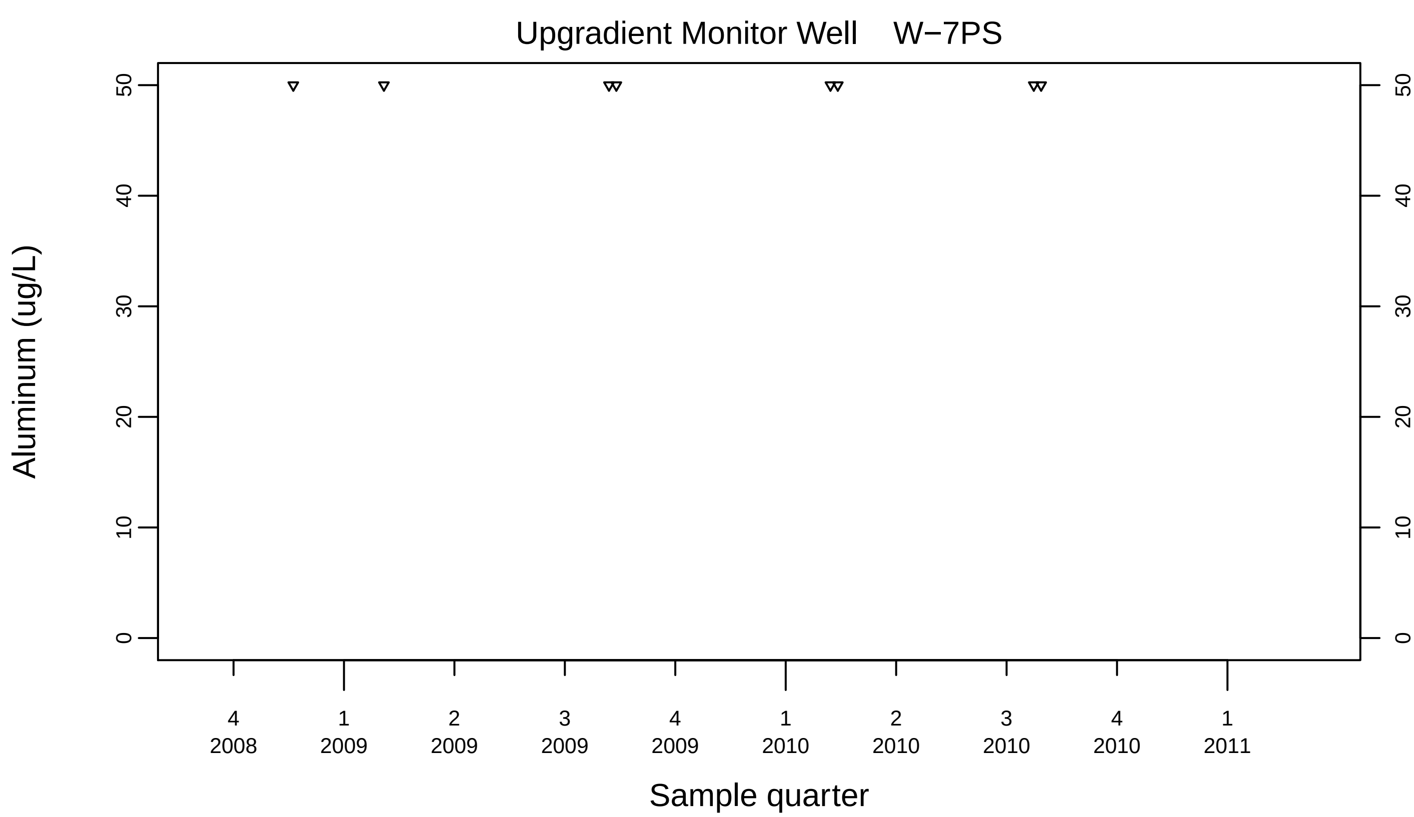


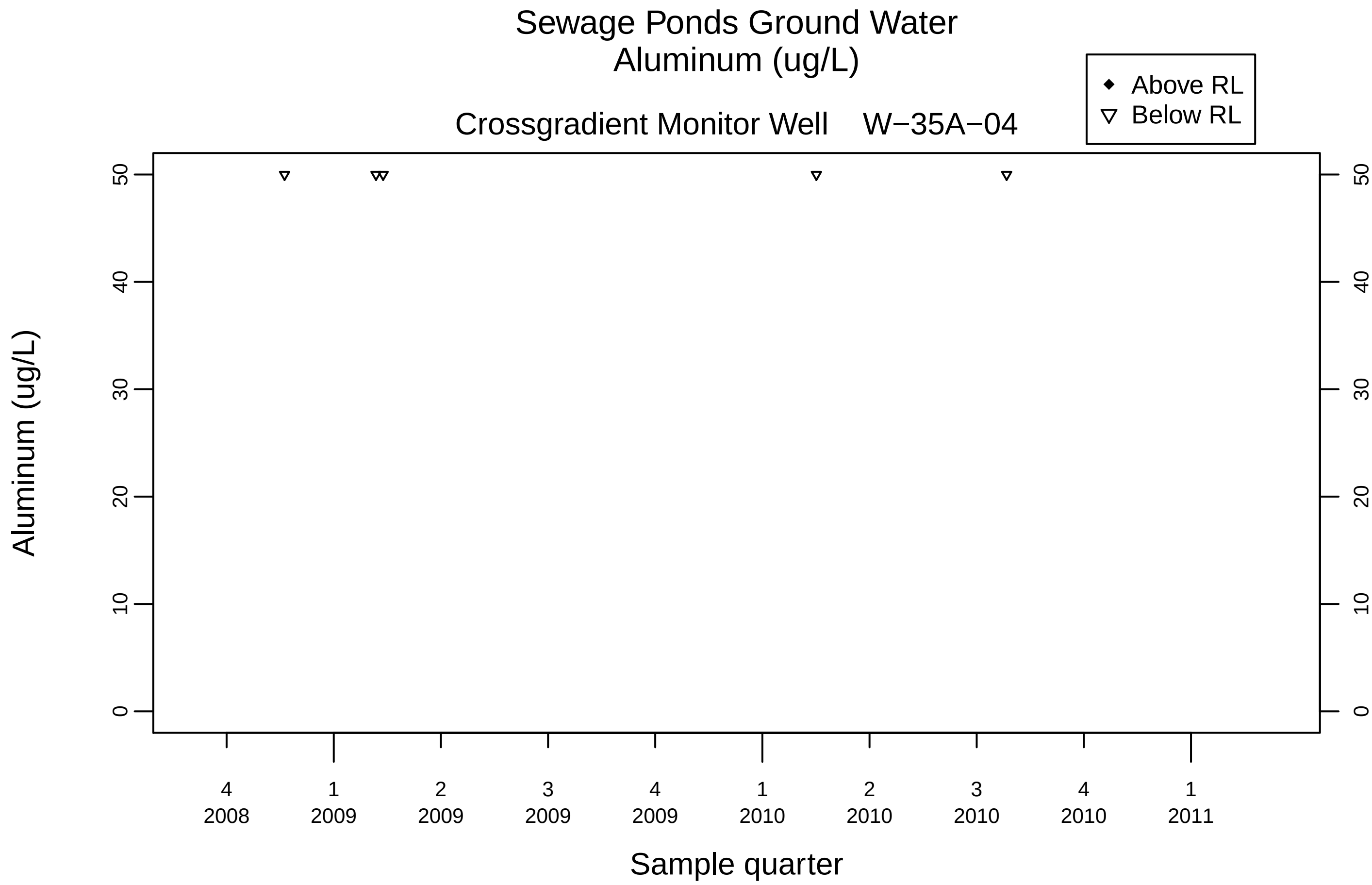


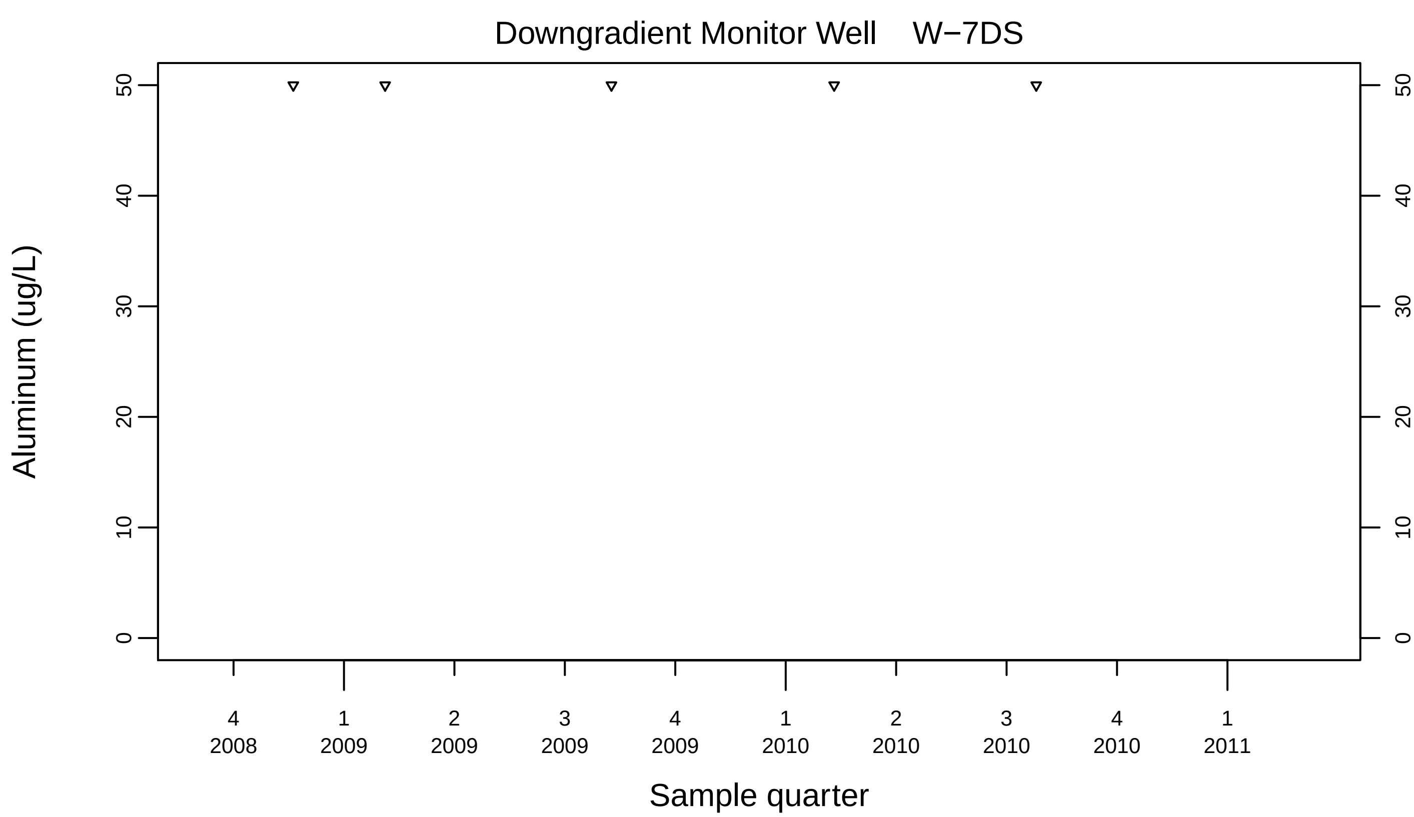

Sewage Ponds Ground Water
Total Coliform (MPN/100mL)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Total Coliform (MPN/100mL)
0
50
100
150
1
3
2006
2007
2008
2009
2010
2011
Sample quarter

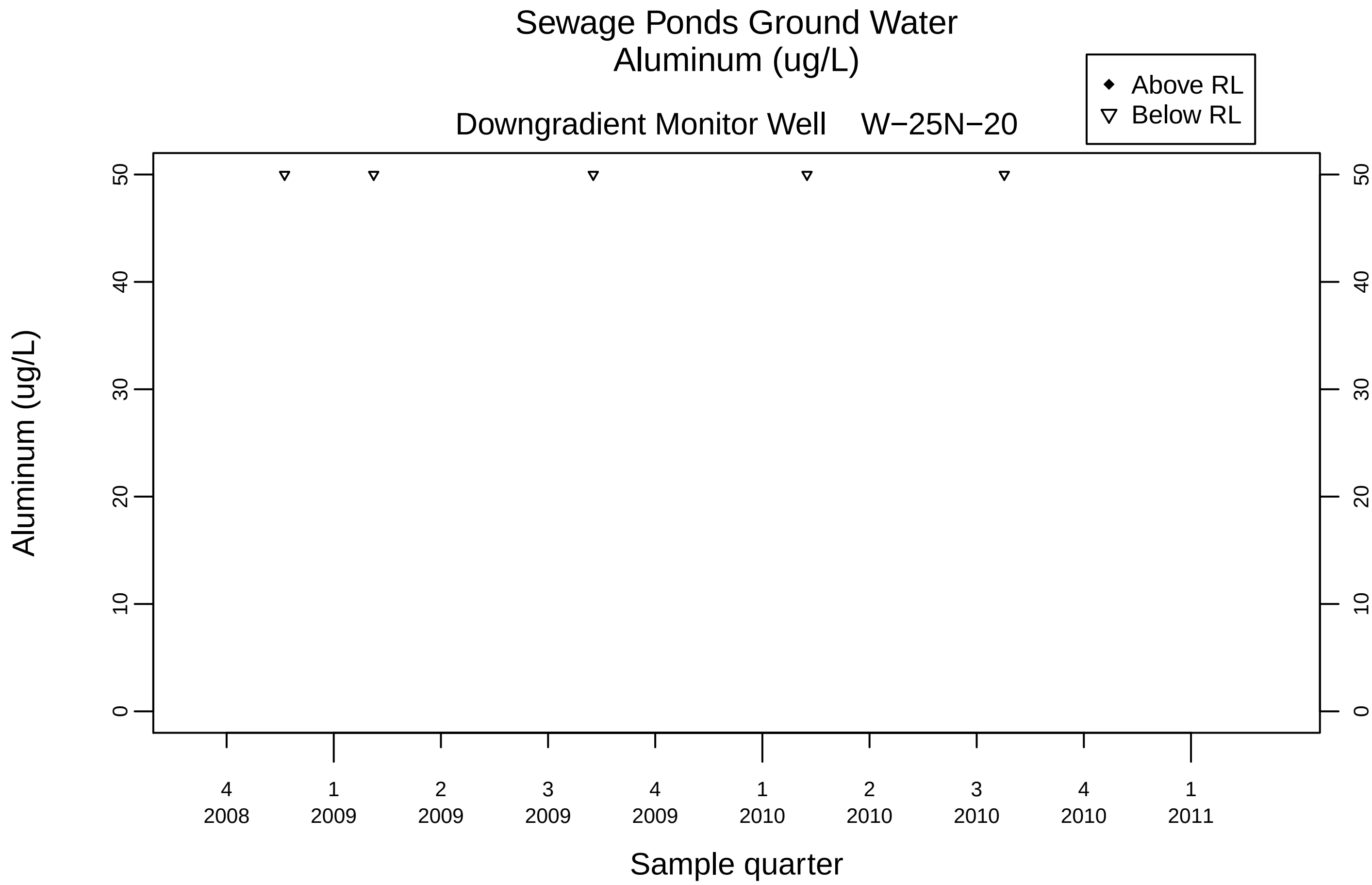
Sewage Ponds Ground Water
Aluminum (ug/L)

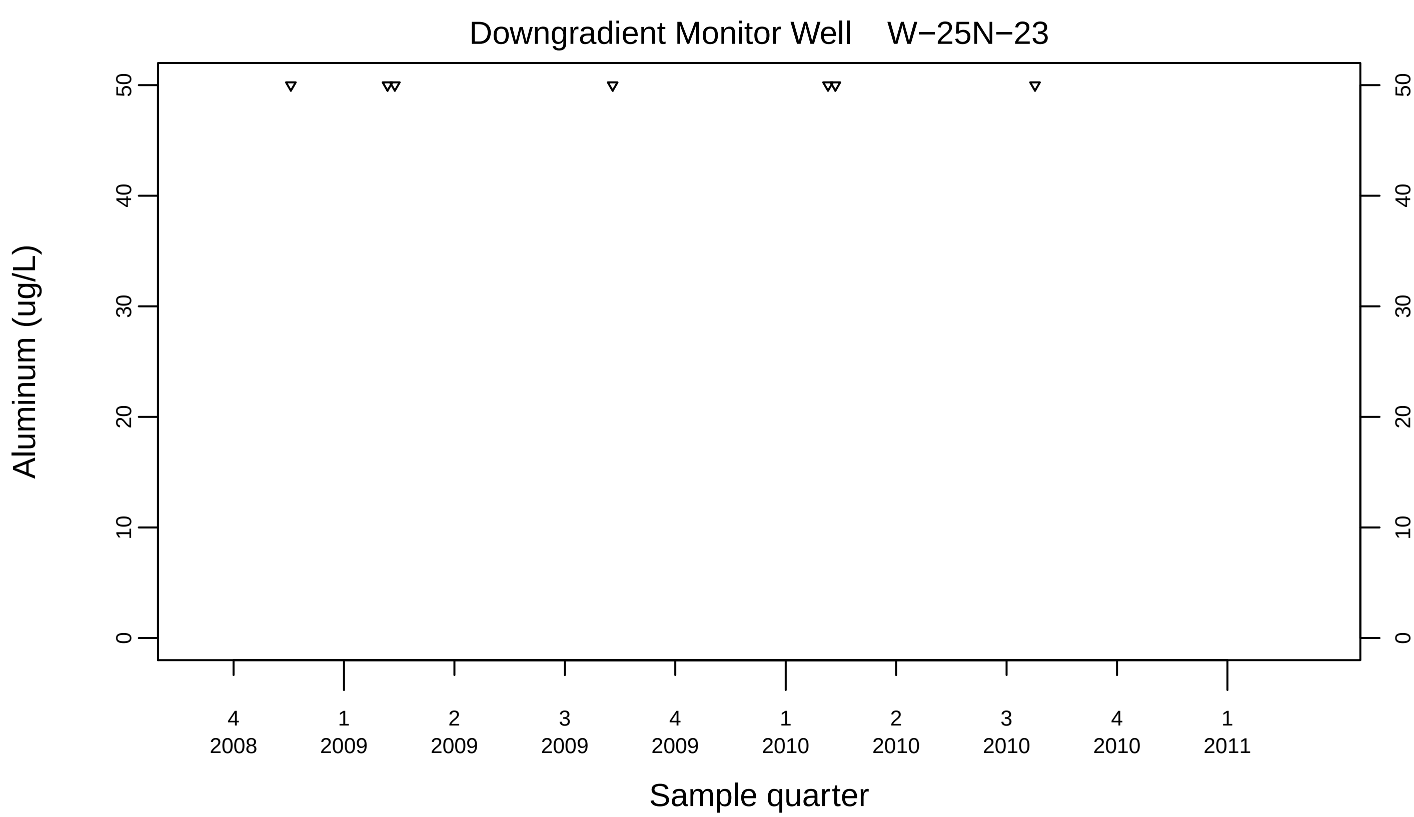




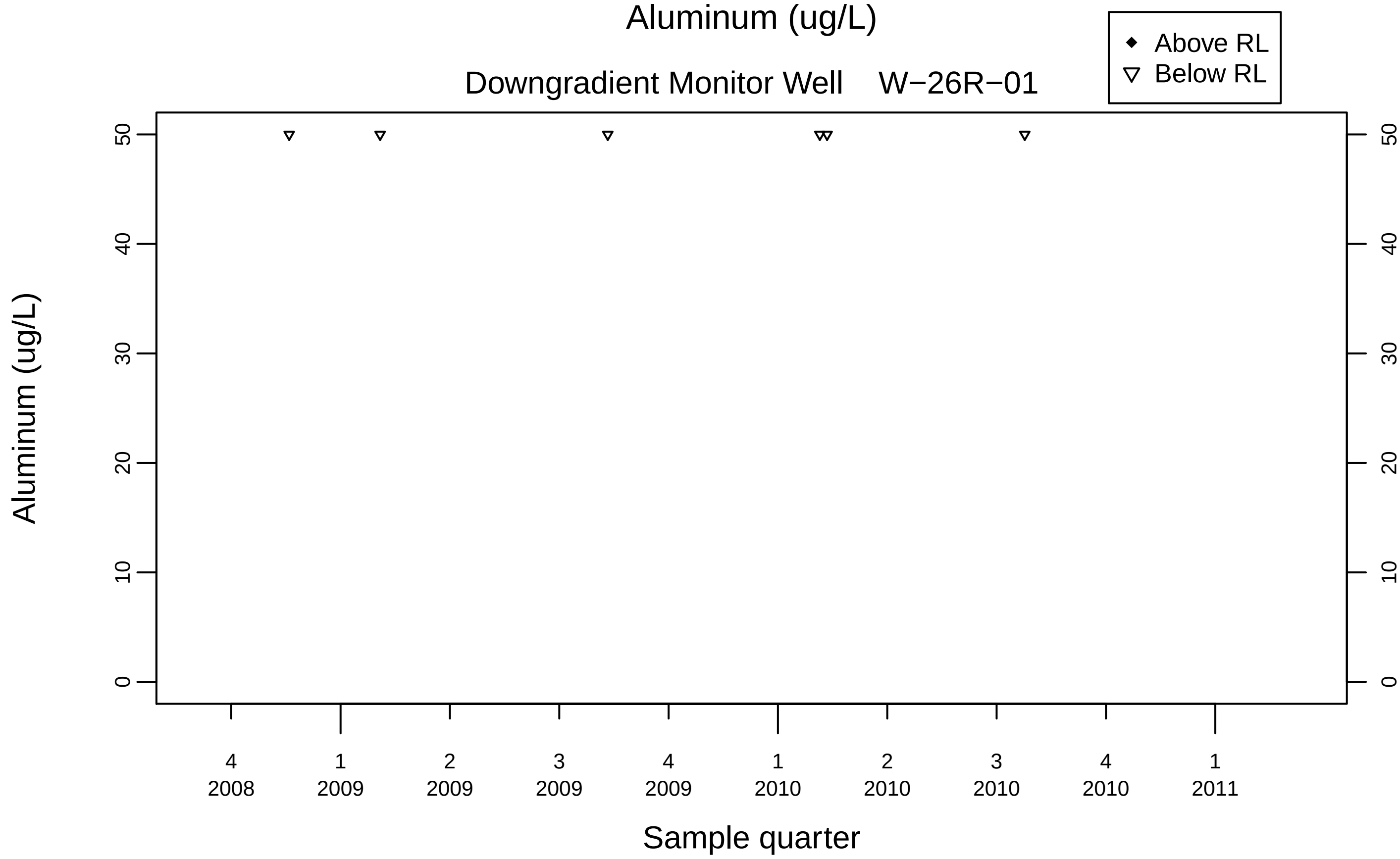

Sewage Ponds Ground Water
Aluminum (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Aluminum (ug/L)
0
10
20
30
40
50
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

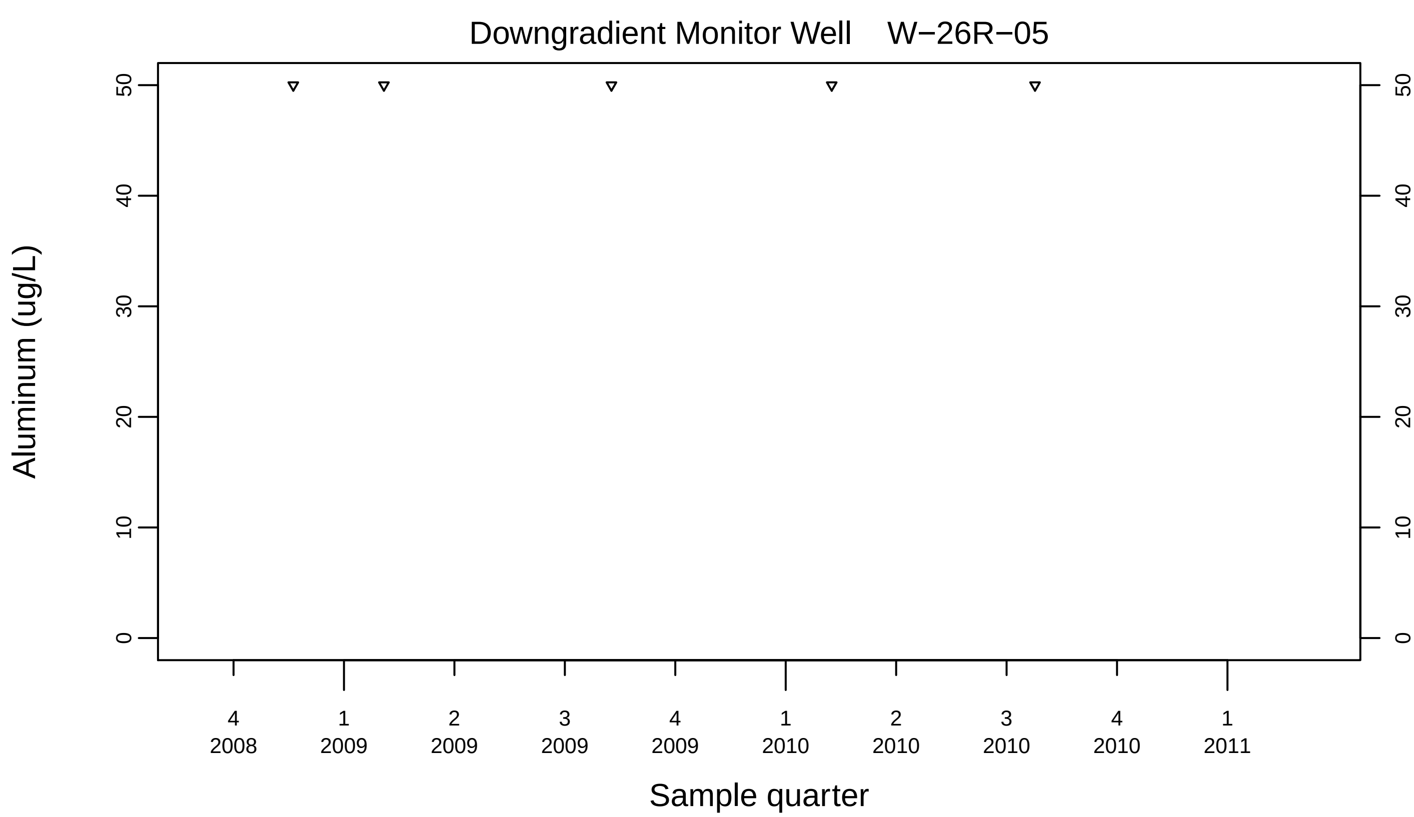

Downgradient Monitor Well W−7DS
Aluminum (ug/L)
0
10
20
30
40
50
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

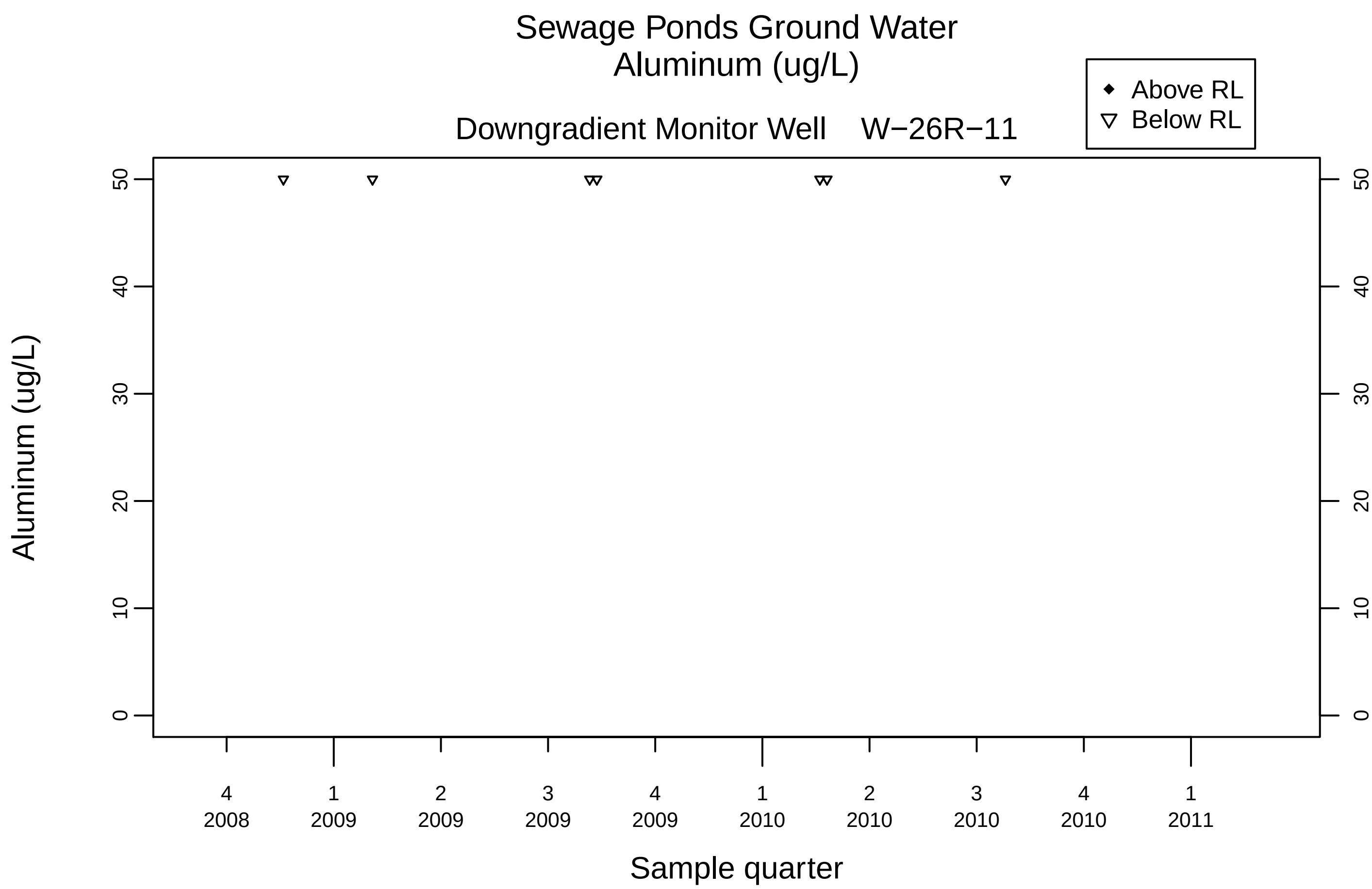

Sewage Ponds Ground Water
Aluminum (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Aluminum (ug/L)
0
10
20
30
40
50
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


Downgradient Monitor Well W−25N−23
Aluminum (ug/L)
0
10
20
30
40
50
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

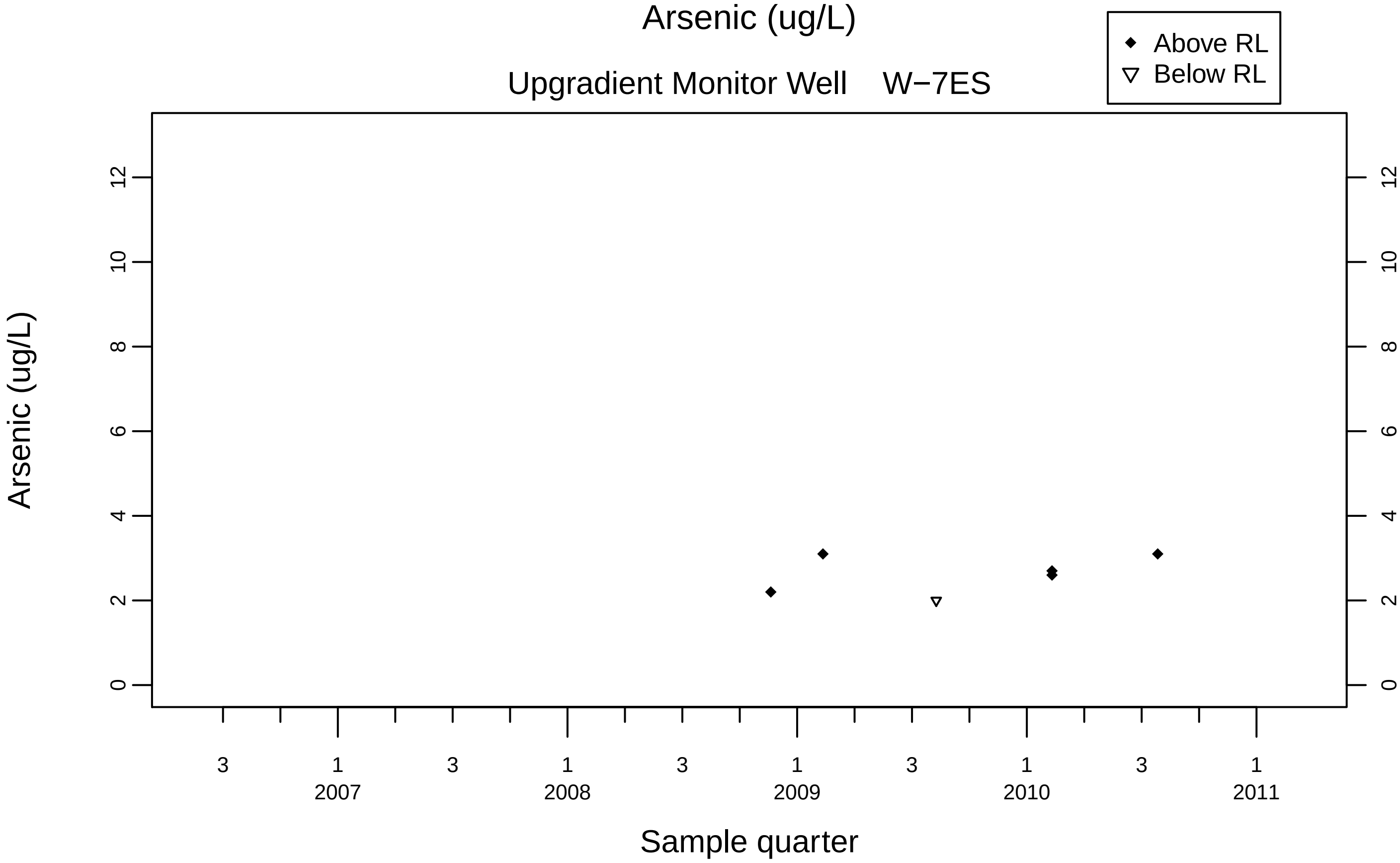
Sewage Ponds Ground Water
Aluminum (ug/L)

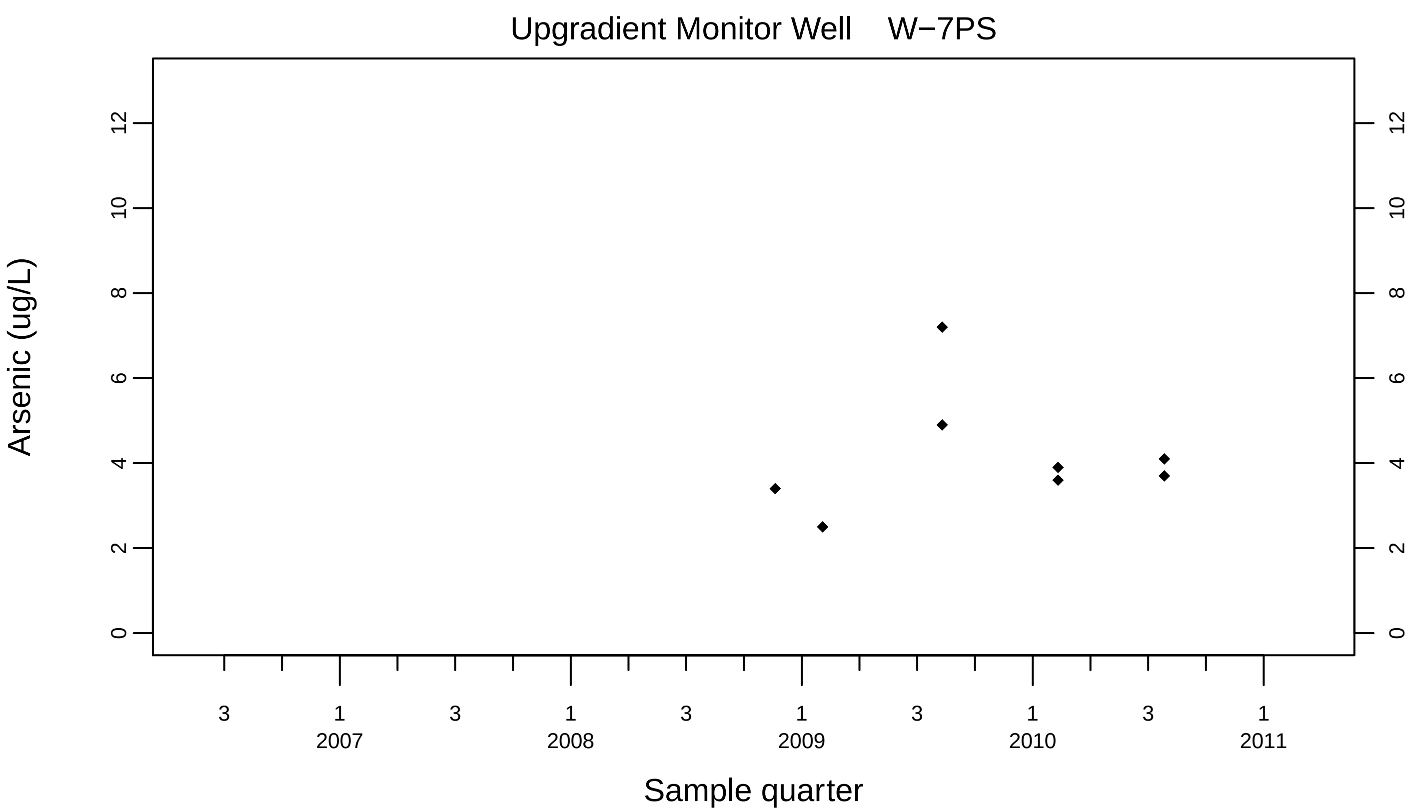




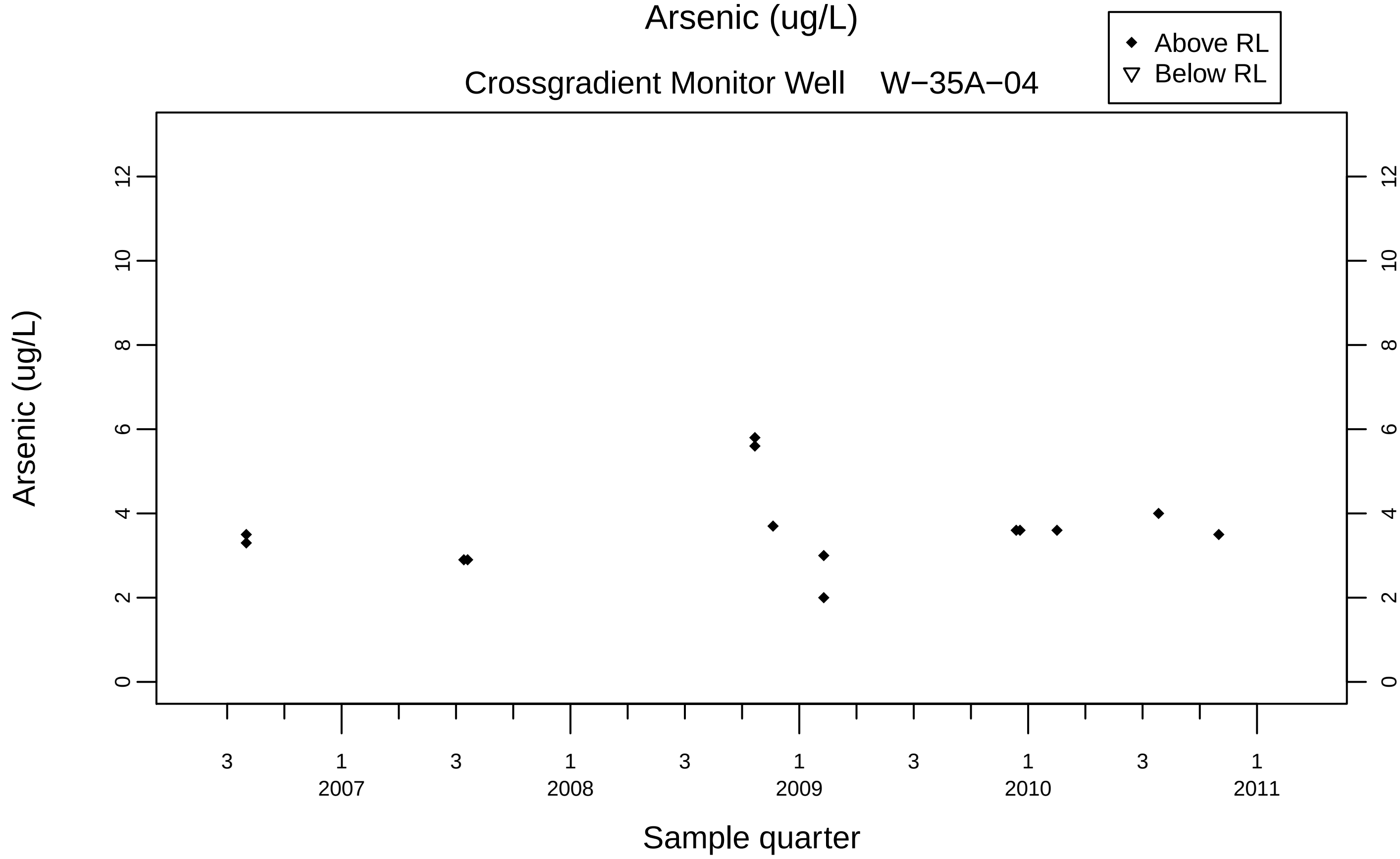

Sewage Ponds Ground Water
Aluminum (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Aluminum (ug/L)
0
10
20
30
40
50
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

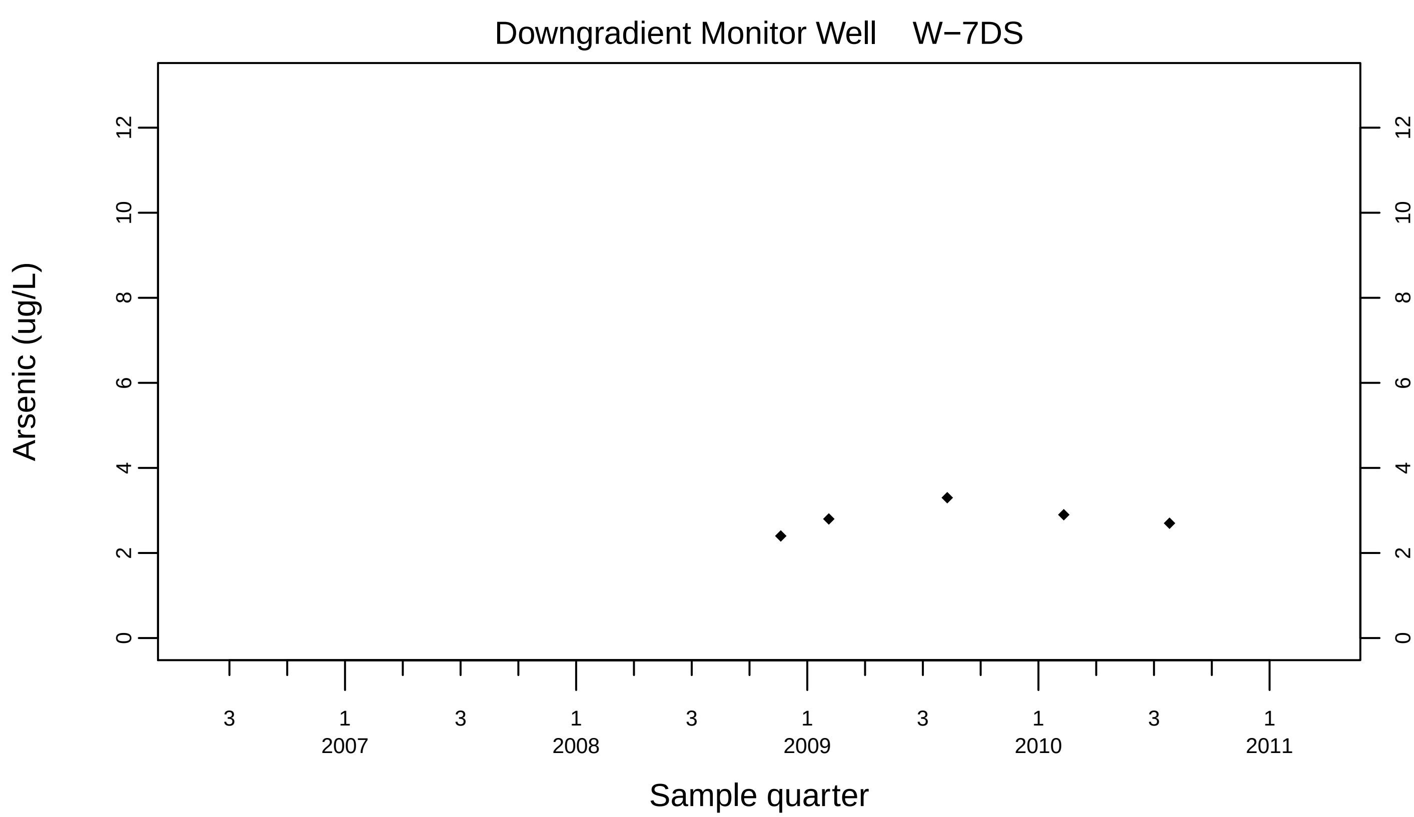
Sewage Ponds Ground Water
Arsenic (ug/L)

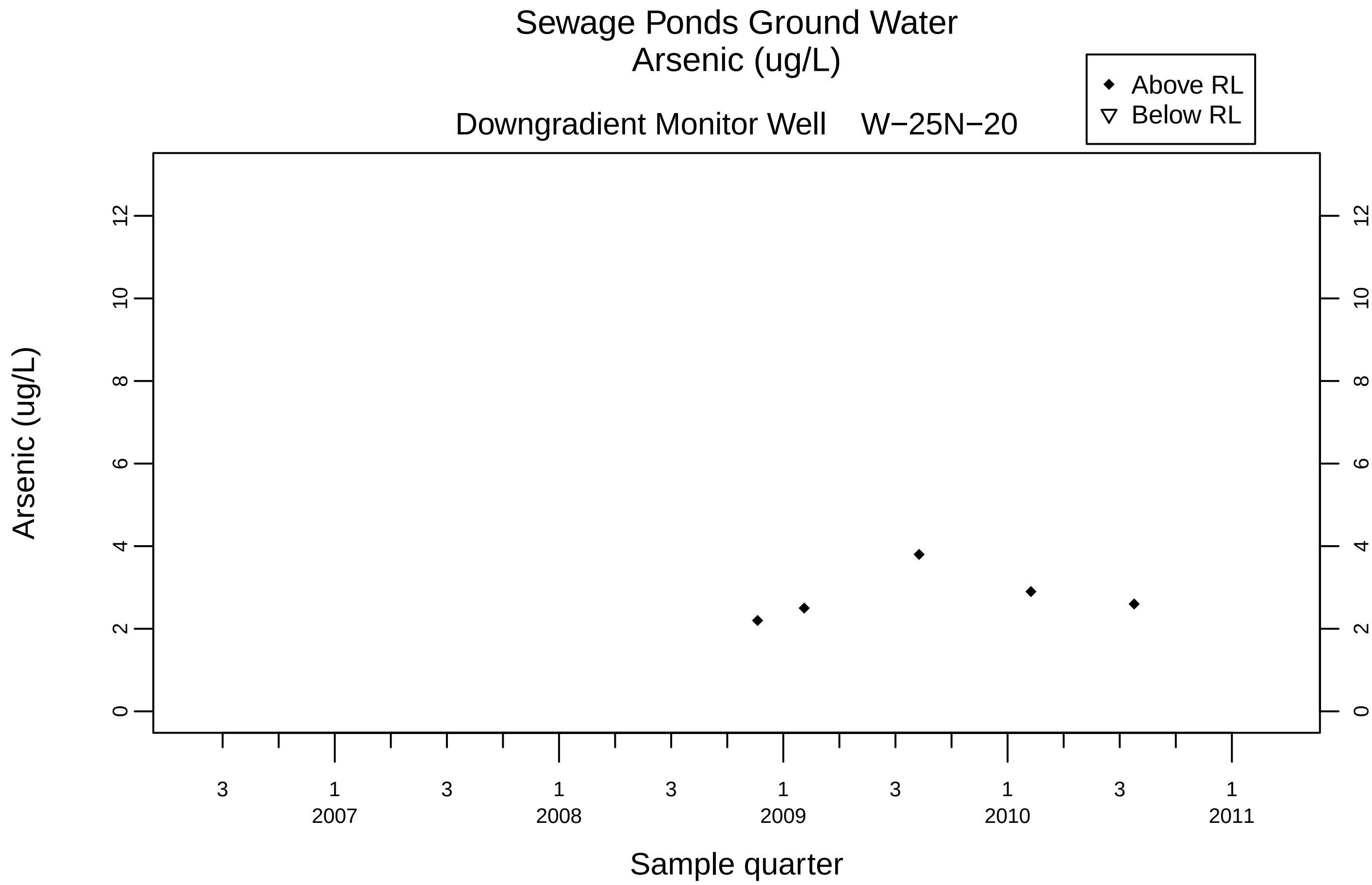


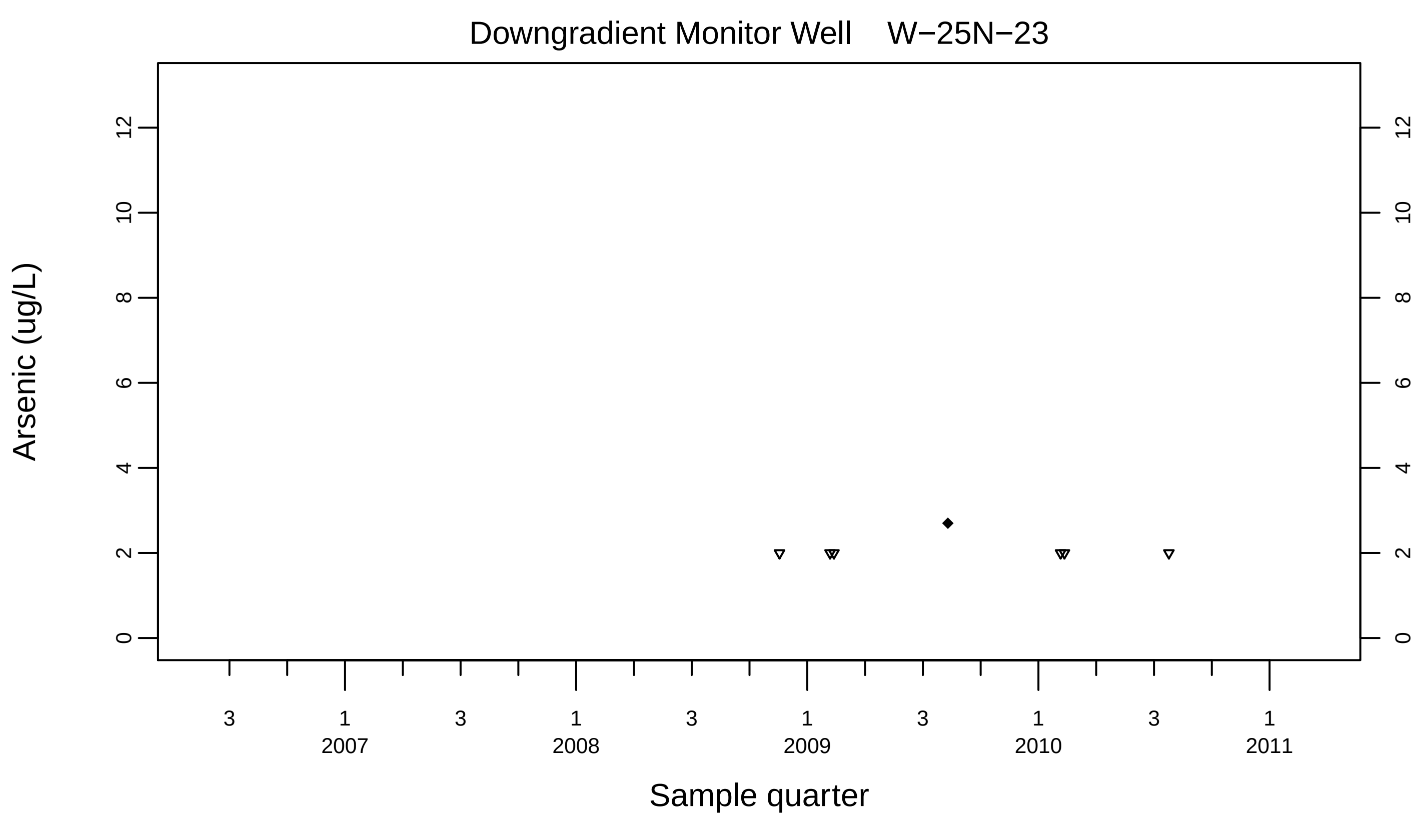


Sewage Ponds Ground Water
Arsenic (ug/L)

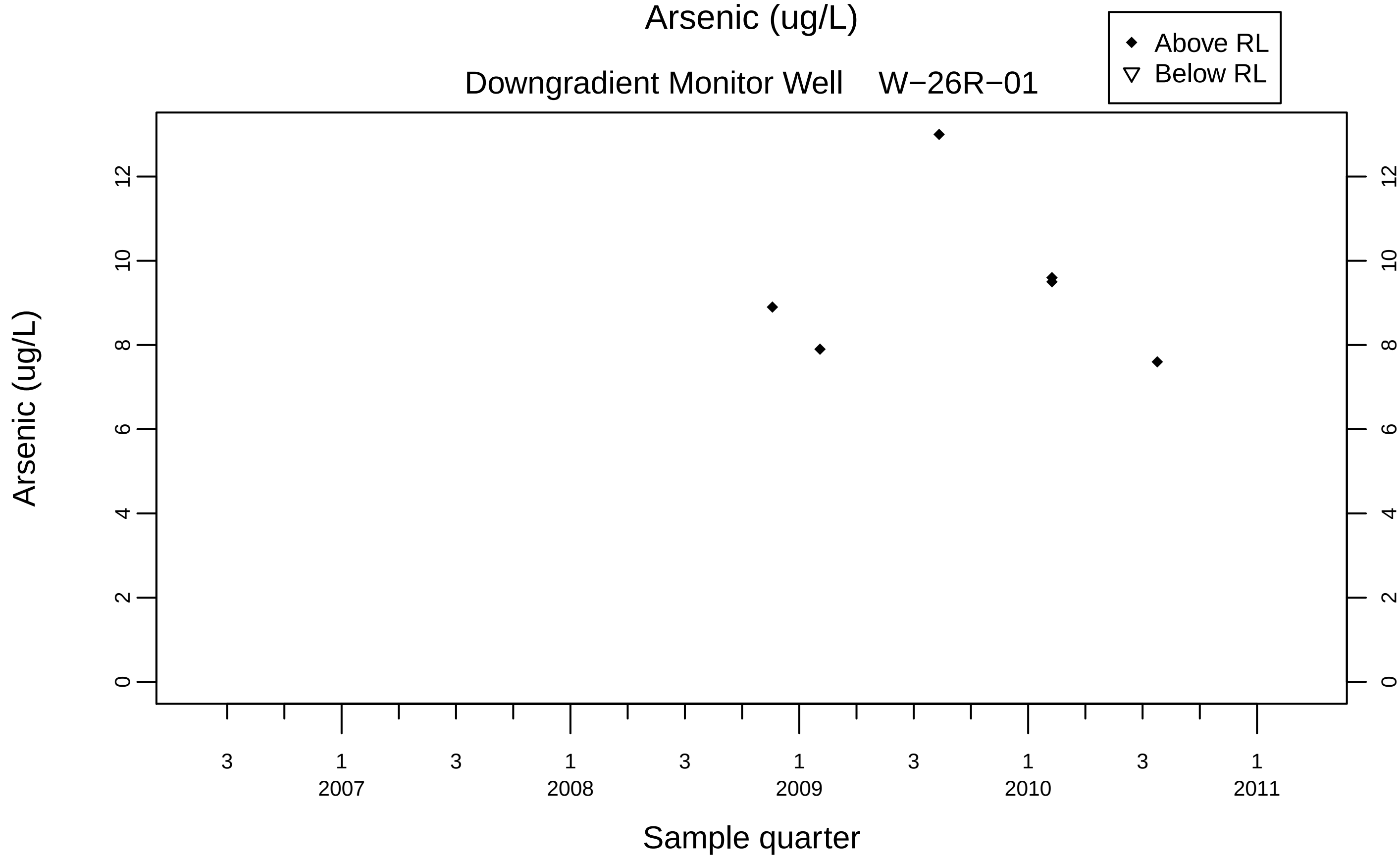


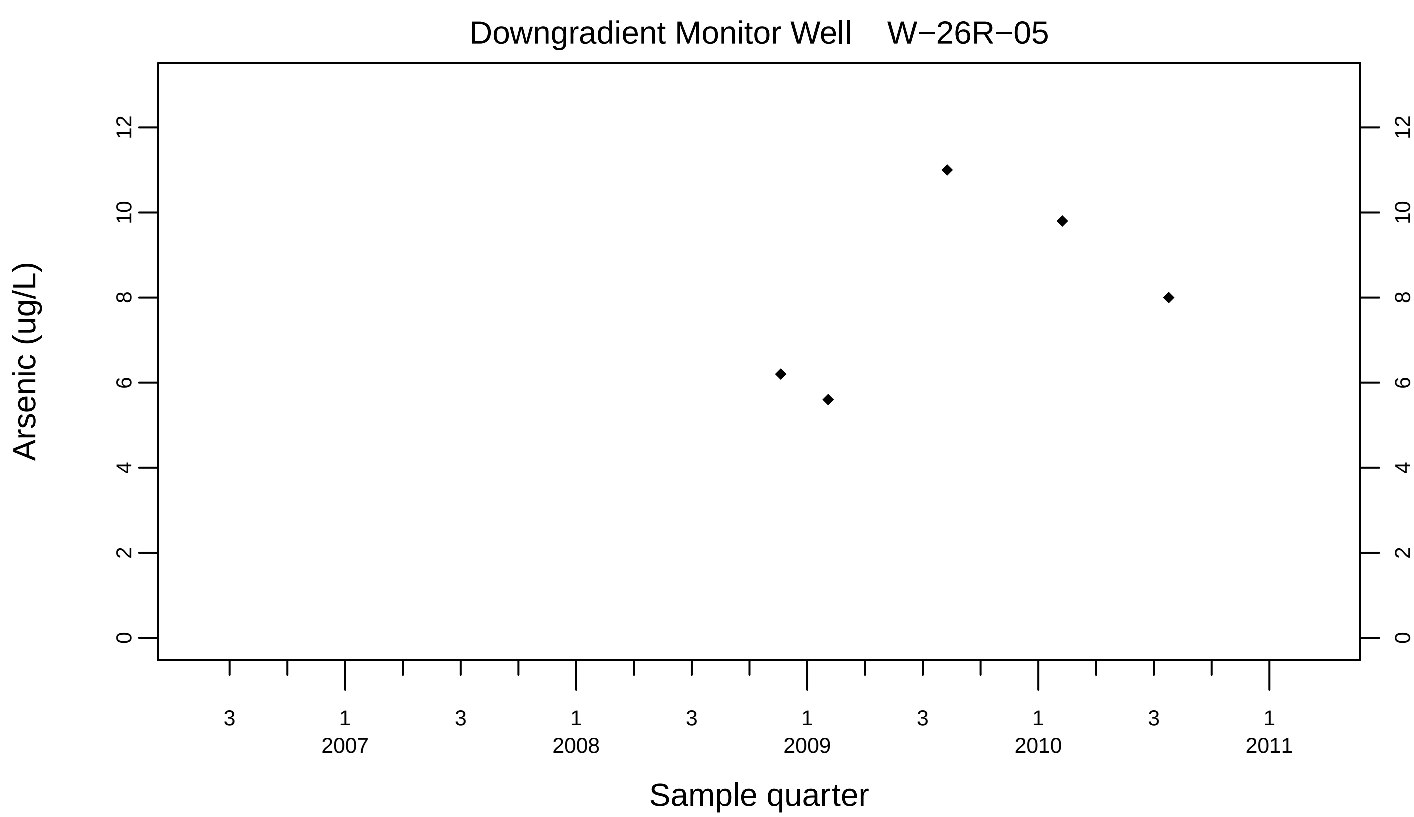


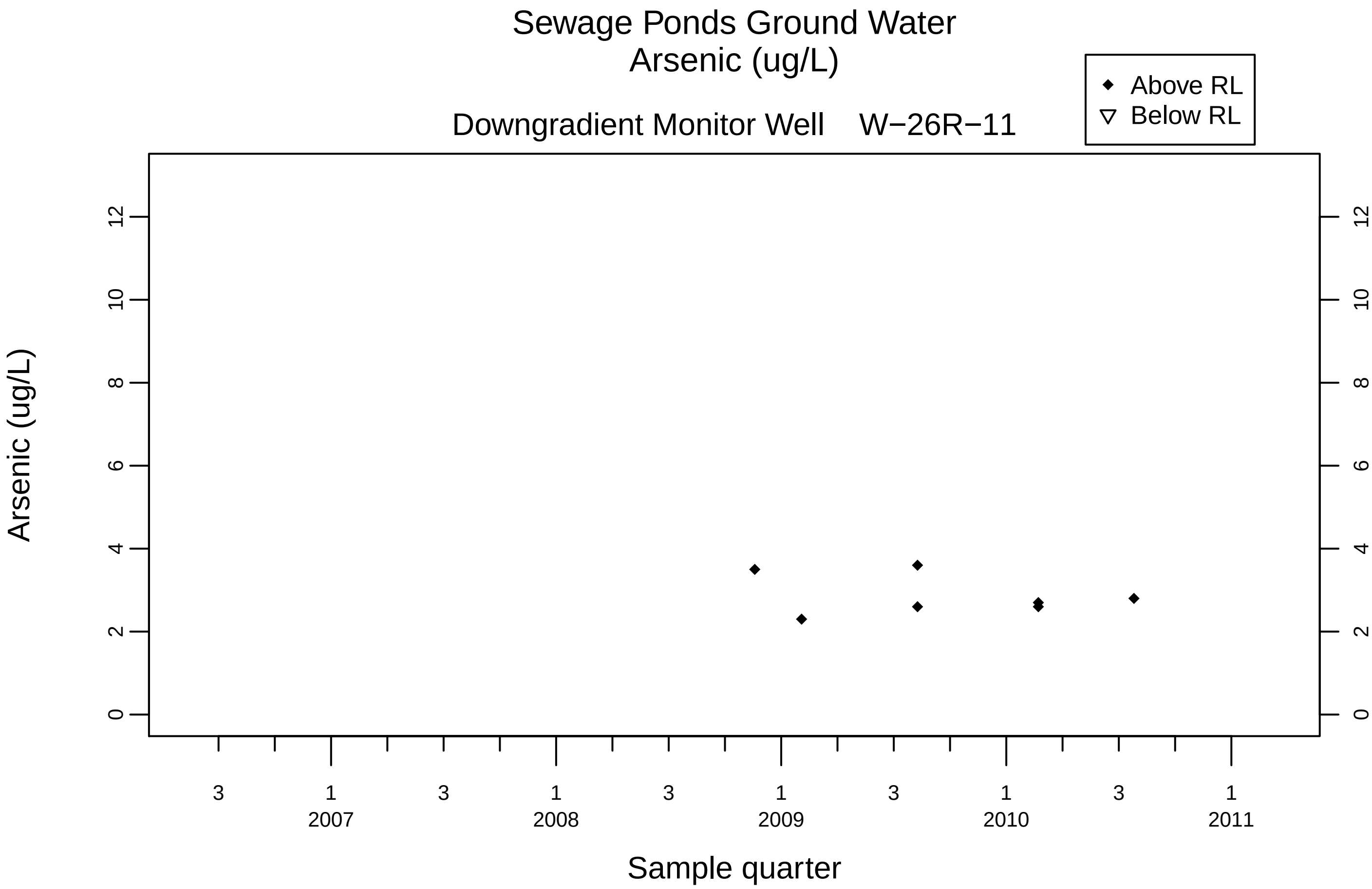

Sewage Ponds Ground Water
Arsenic (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

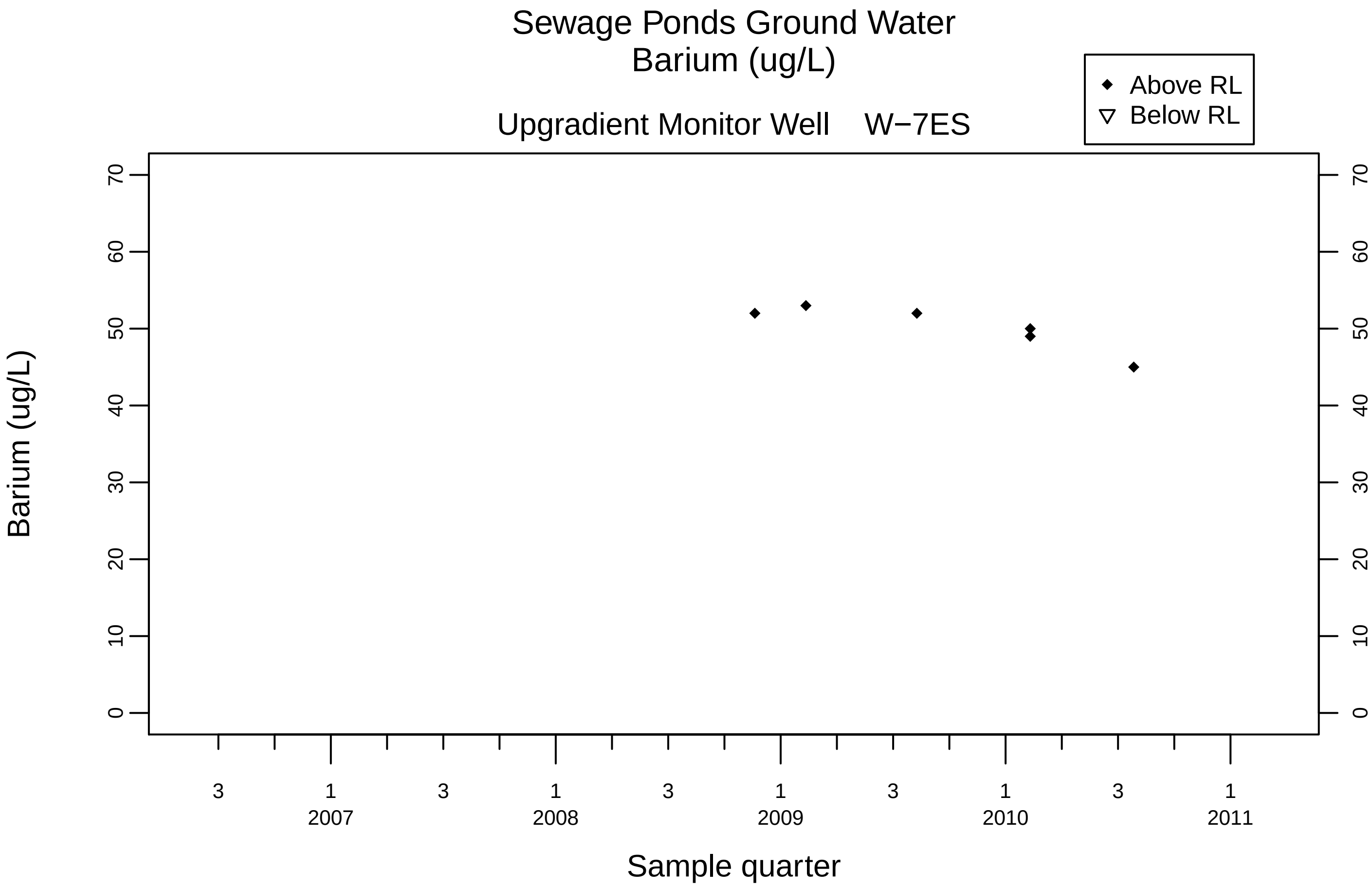

Downgradient Monitor Well W−25N−23
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

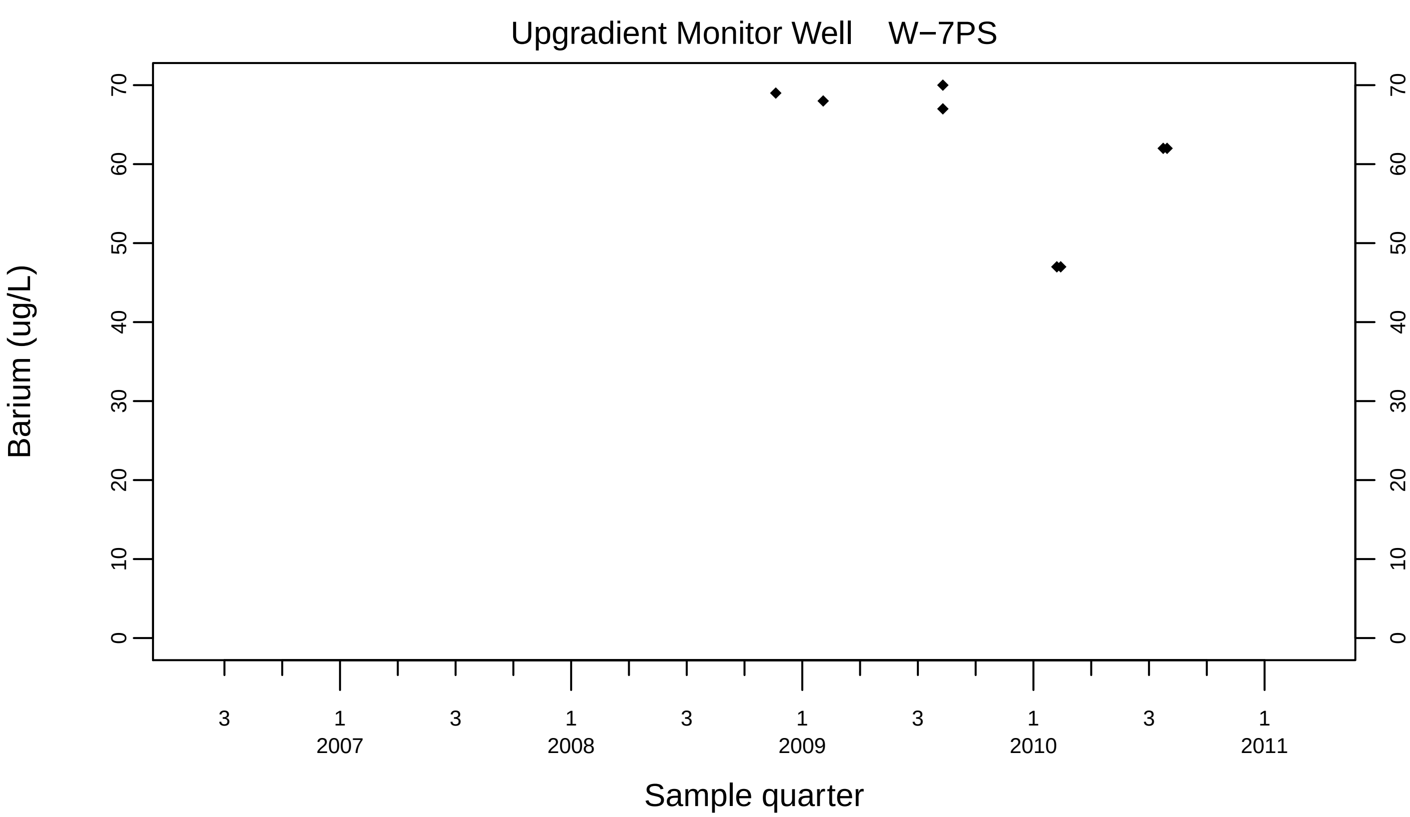
Sewage Ponds Ground Water
Arsenic (ug/L)



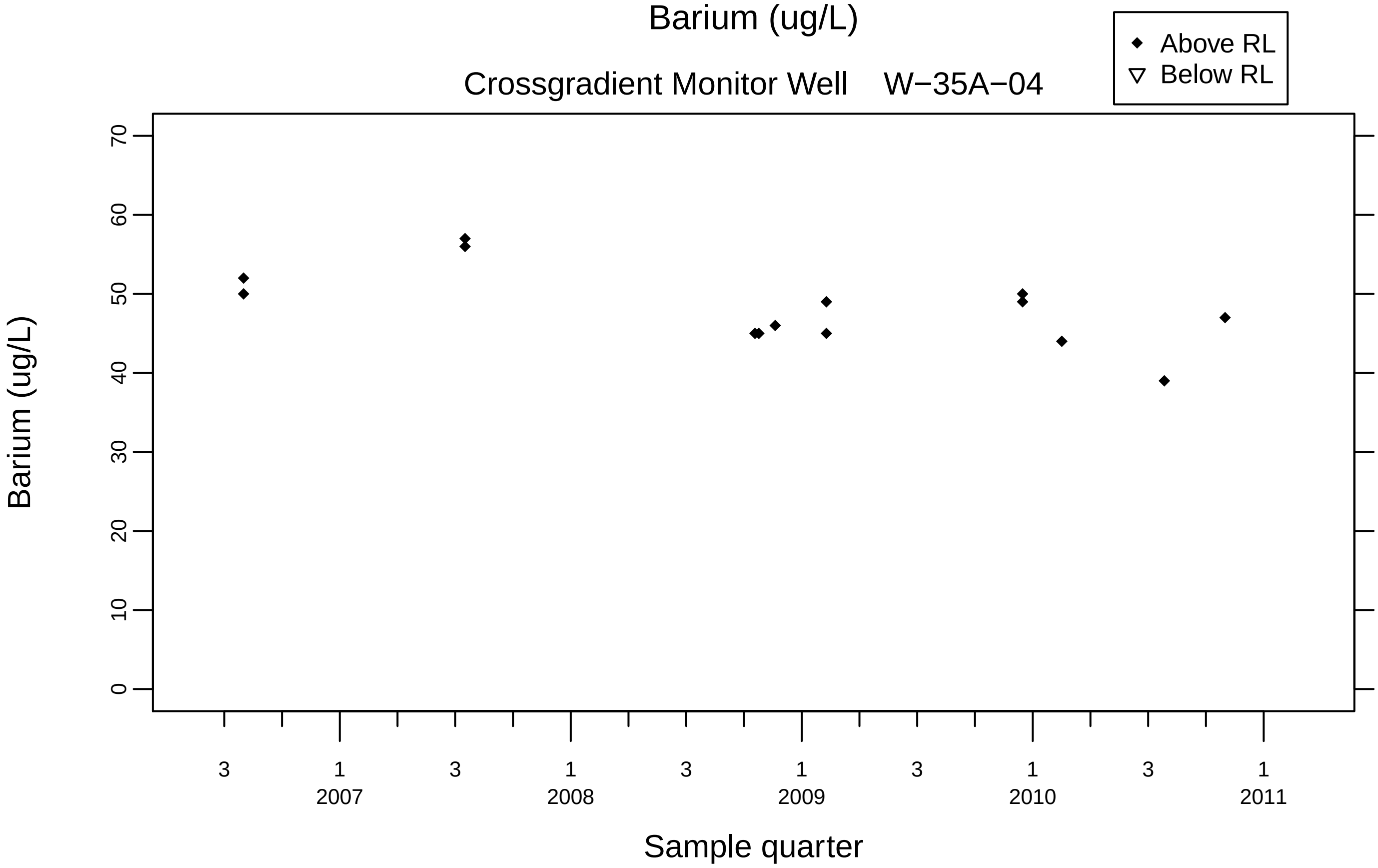


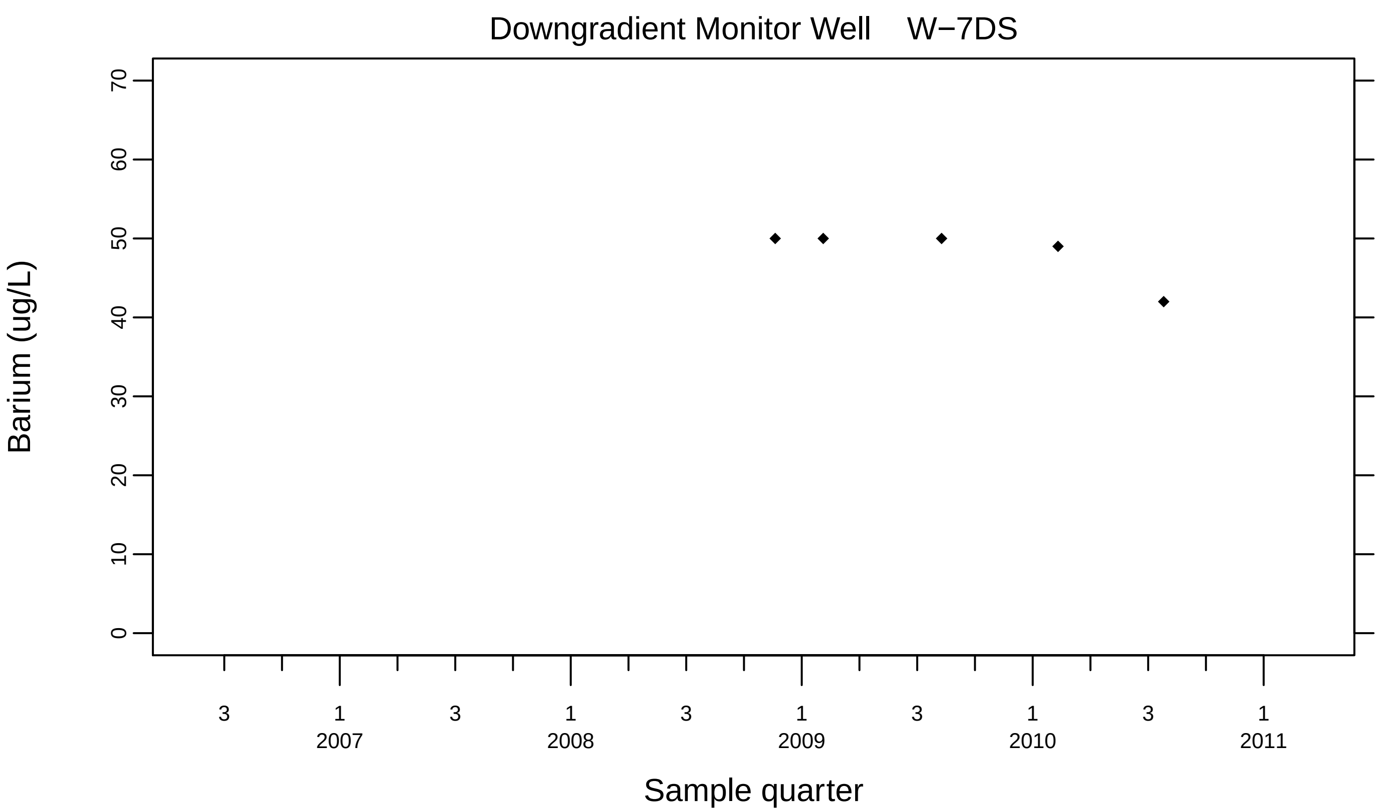

Sewage Ponds Ground Water
Arsenic (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Arsenic (ug/L)
0
2
4
6
8
10
12
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter


Sewage Ponds Ground Water
Barium (ug/L)
Upgradient Monitor Well W−7ES
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
Sample quarter

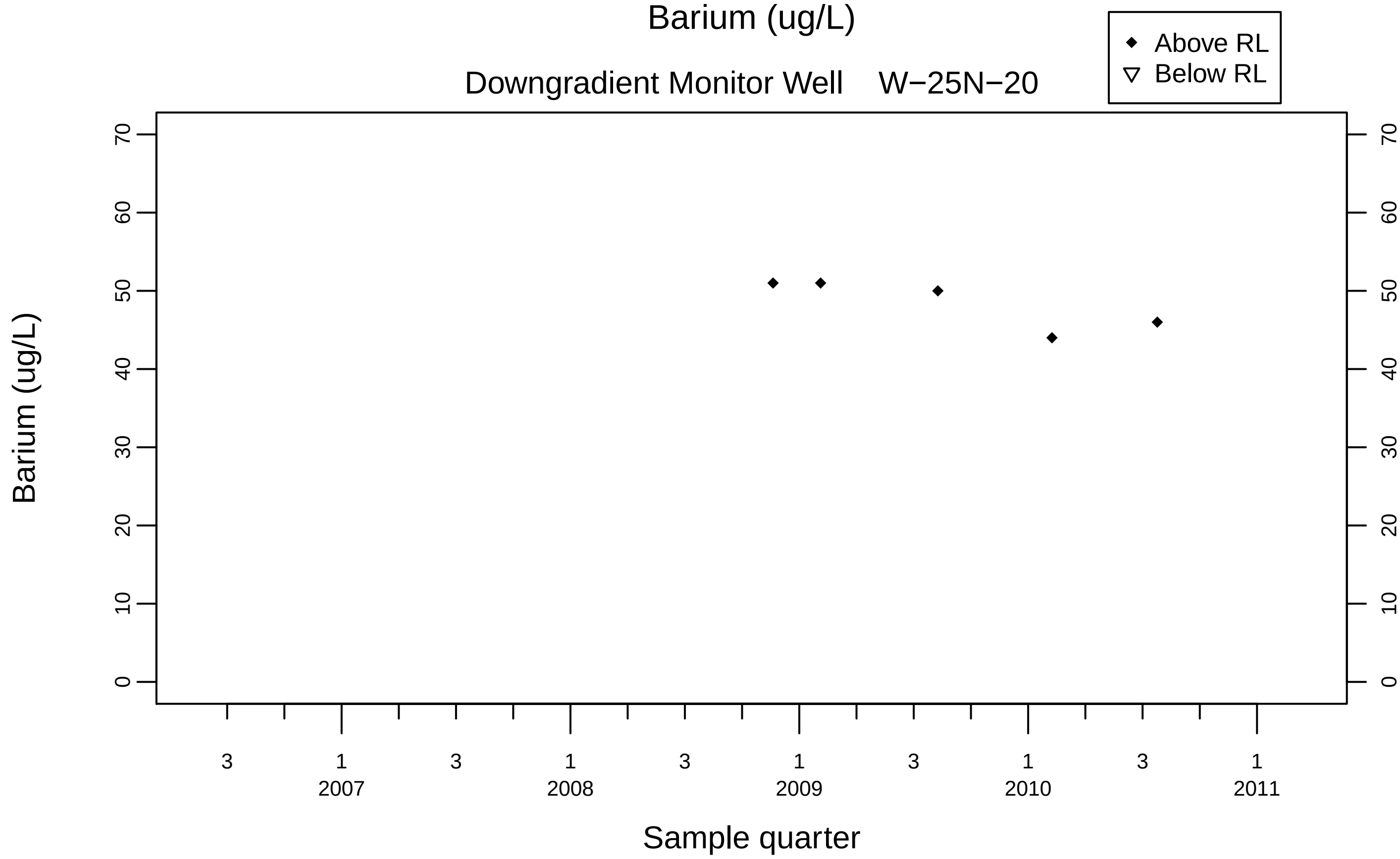

Upgradient Monitor Well W−7PS
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

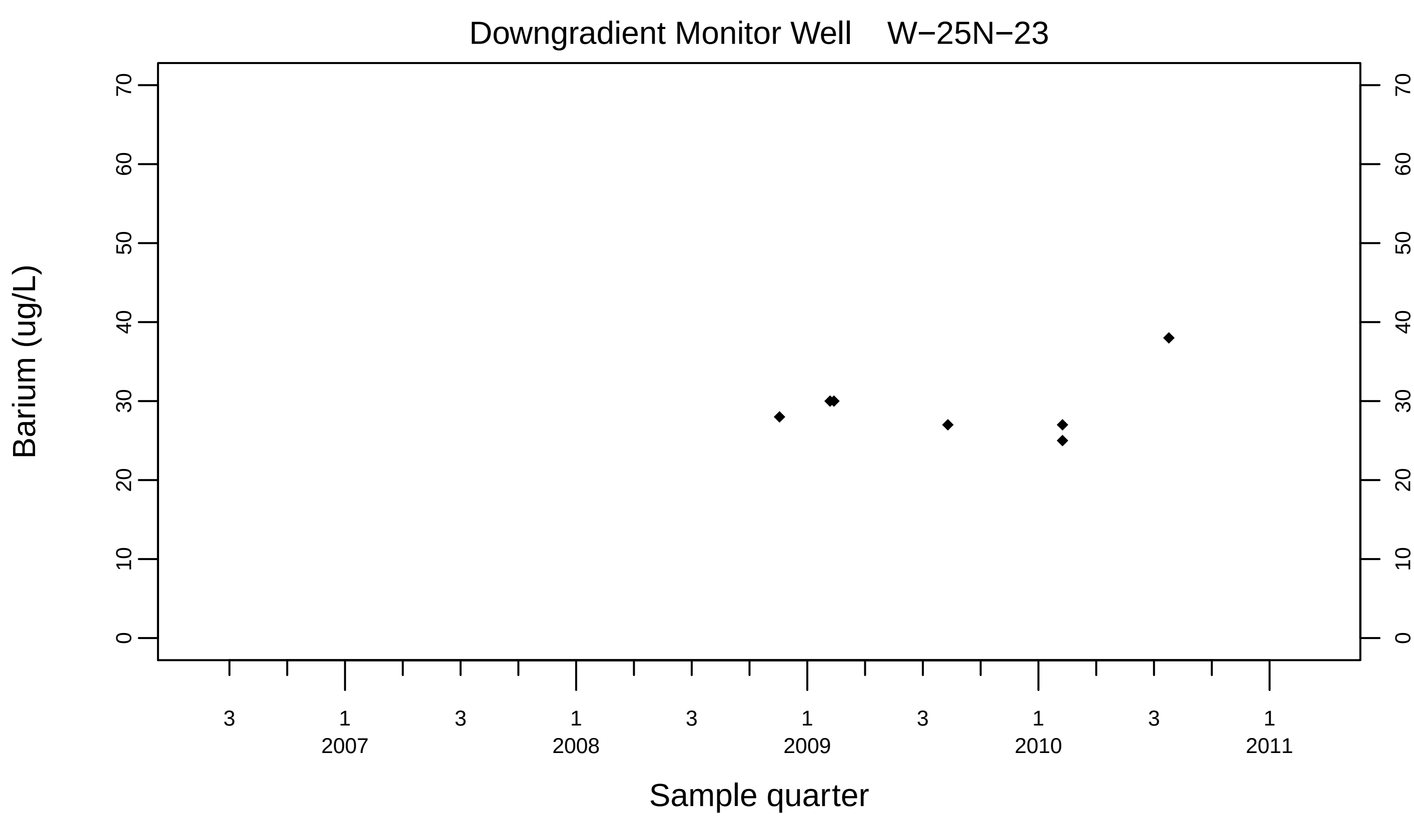
Sewage Ponds Ground Water
Barium (ug/L)

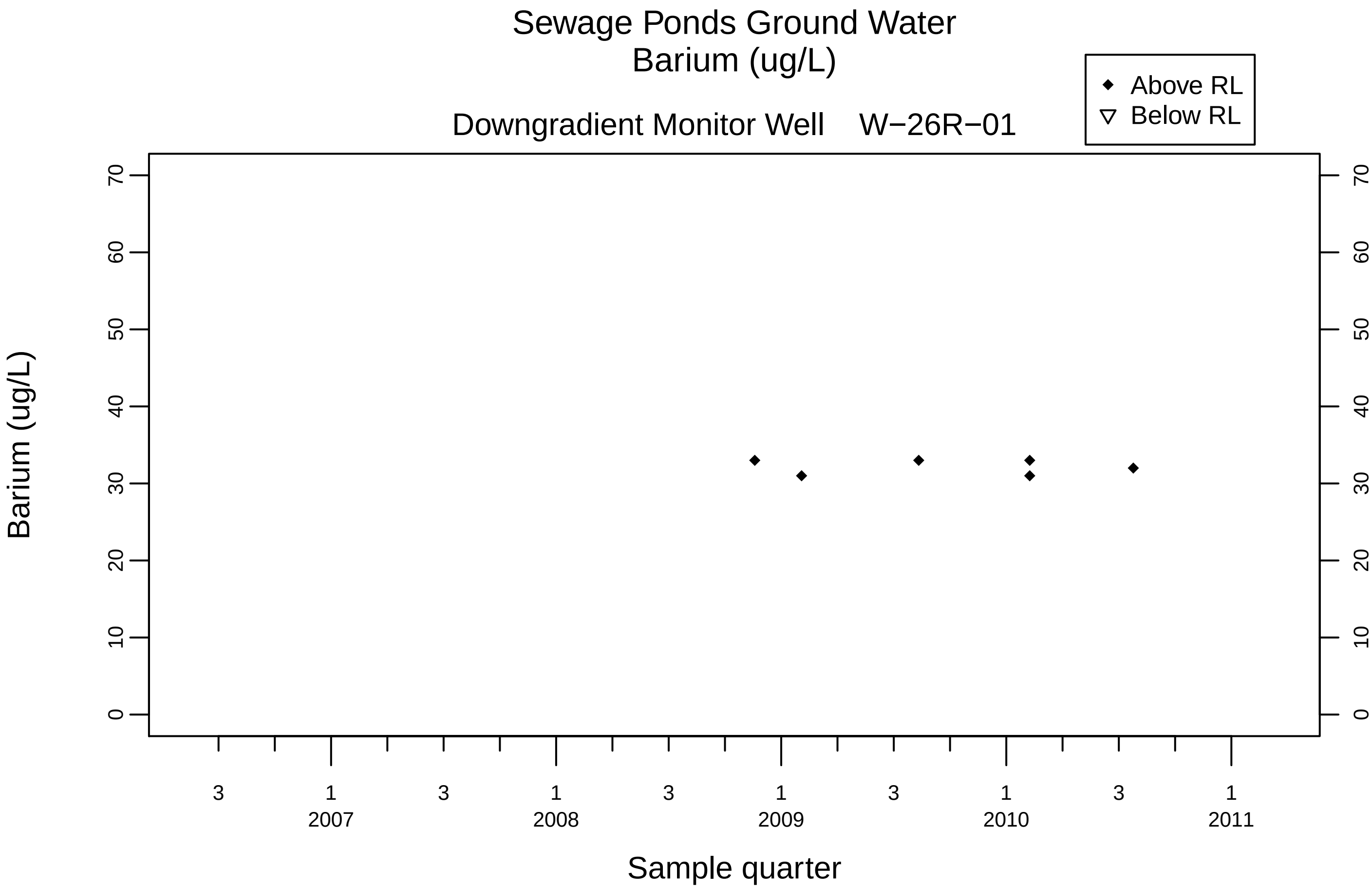


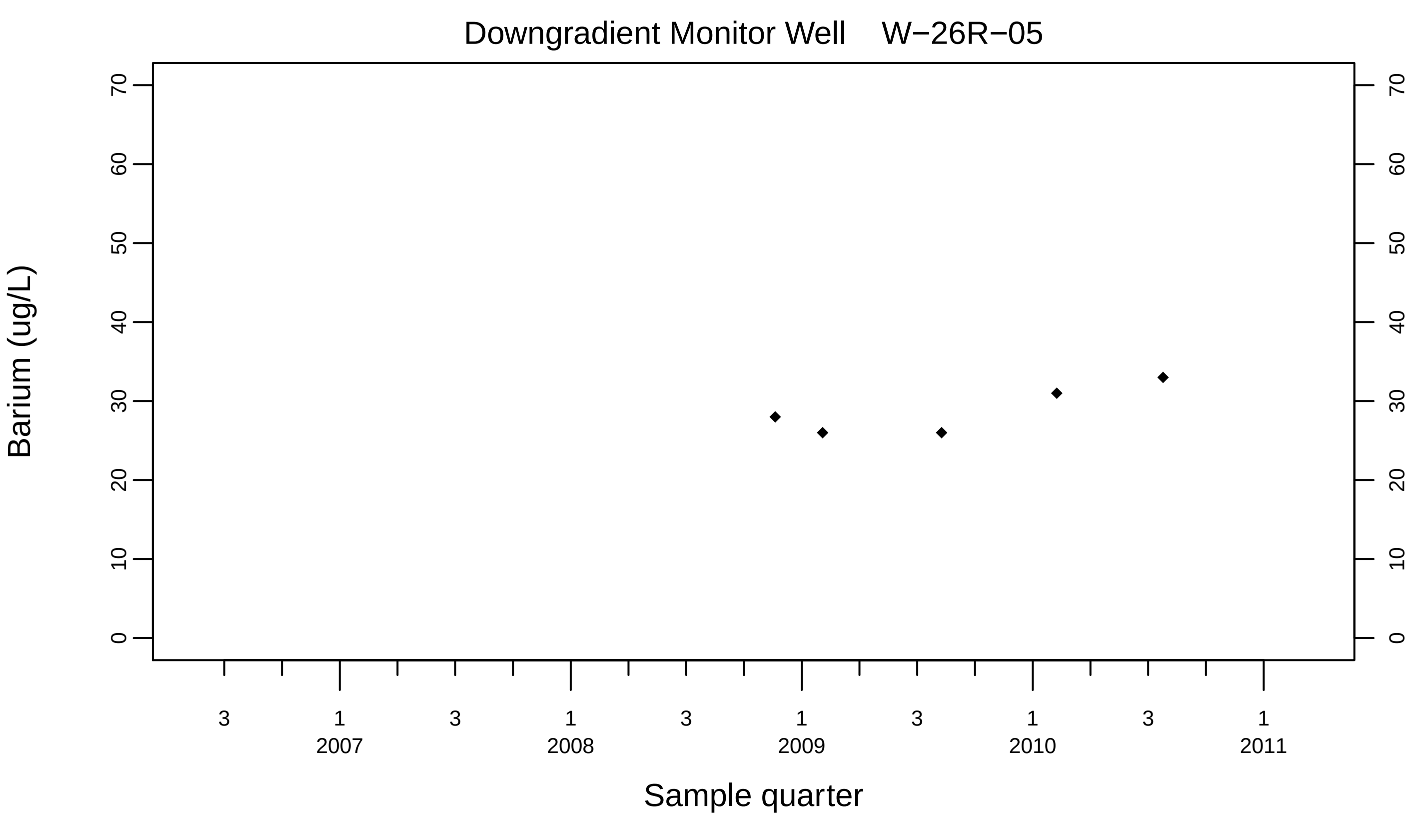


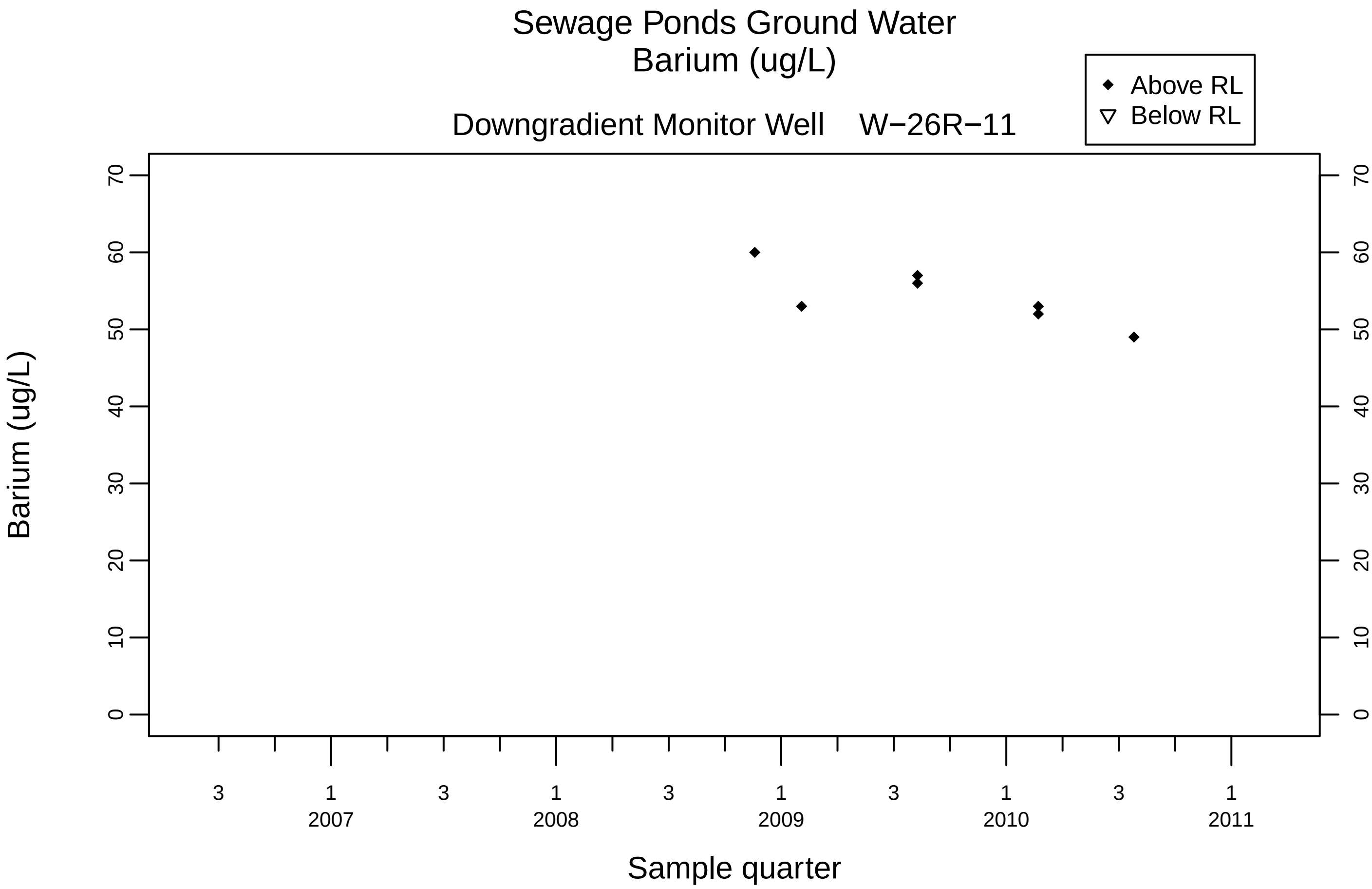
Sewage Ponds Ground Water
Barium (ug/L)

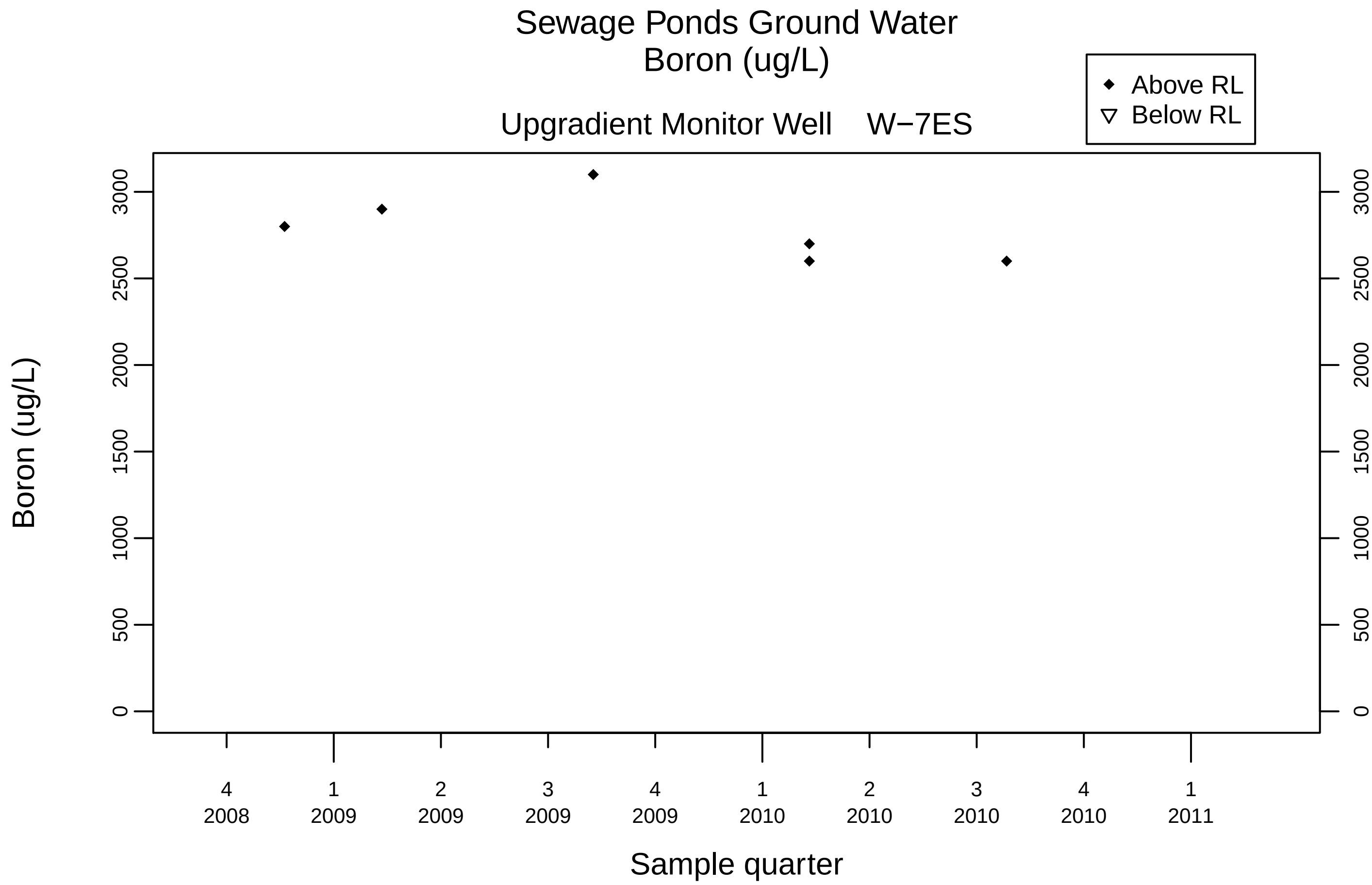


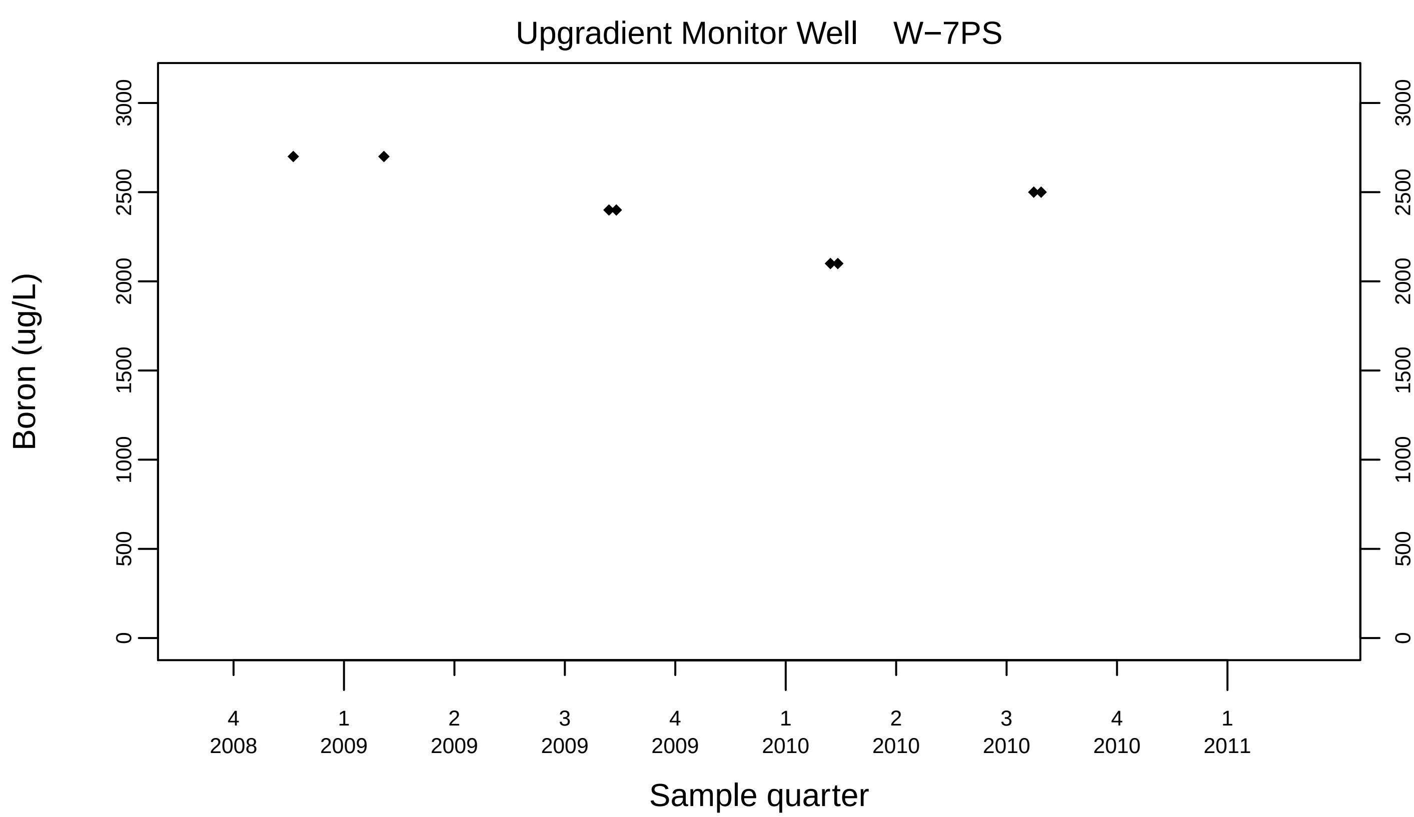


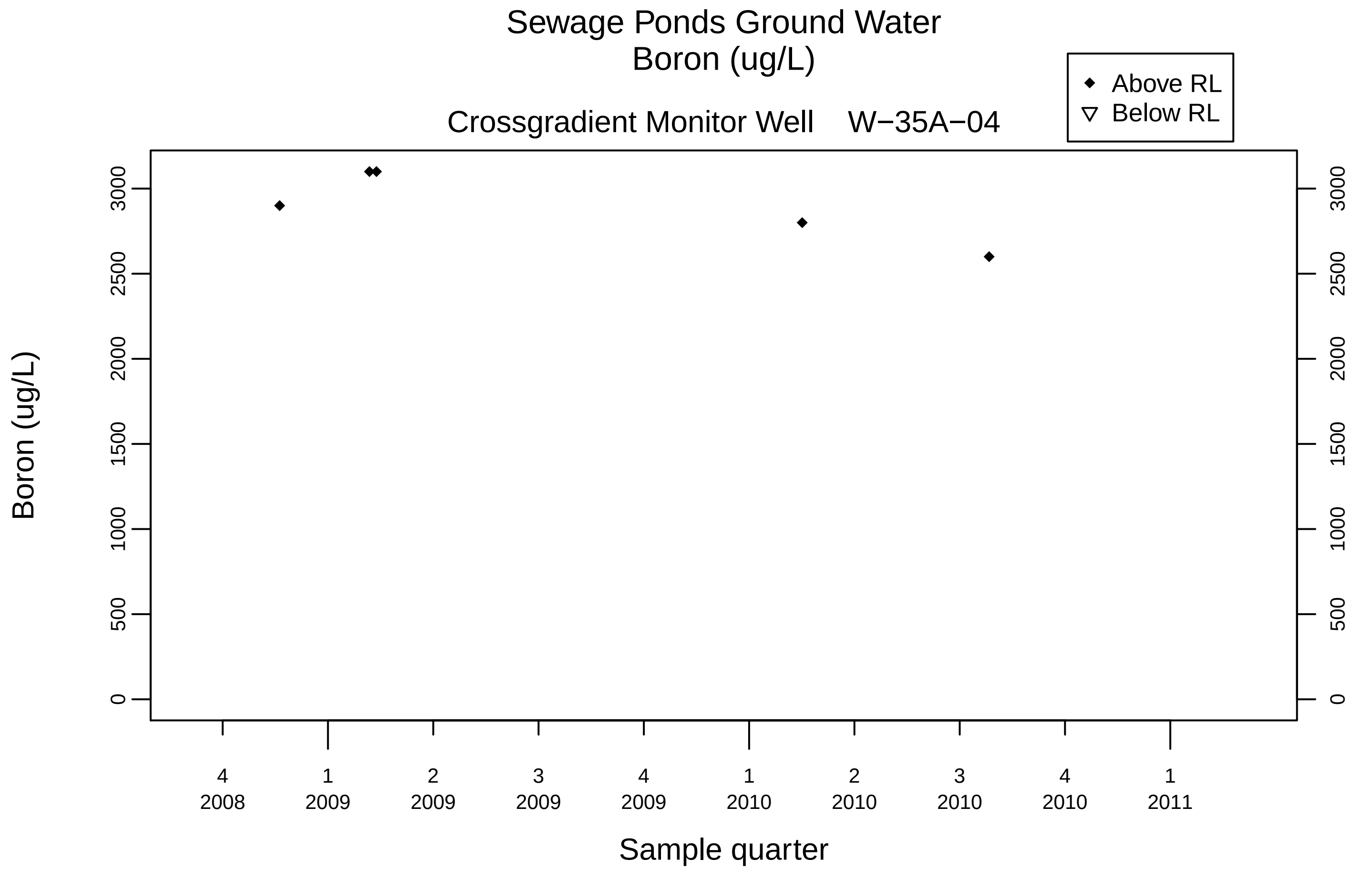

Sewage Ponds Ground Water
Barium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

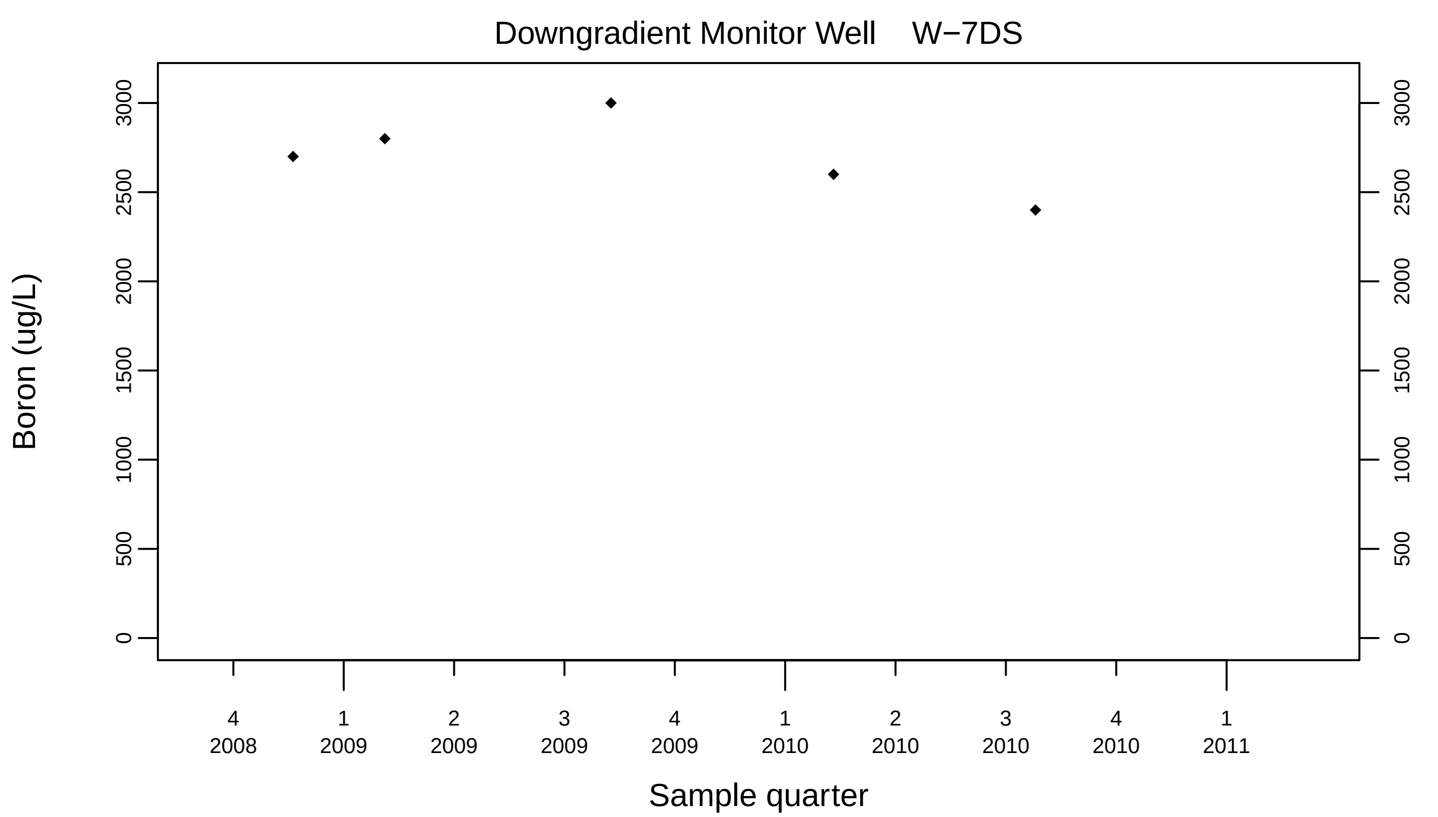

Downgradient Monitor Well W−26R−05
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

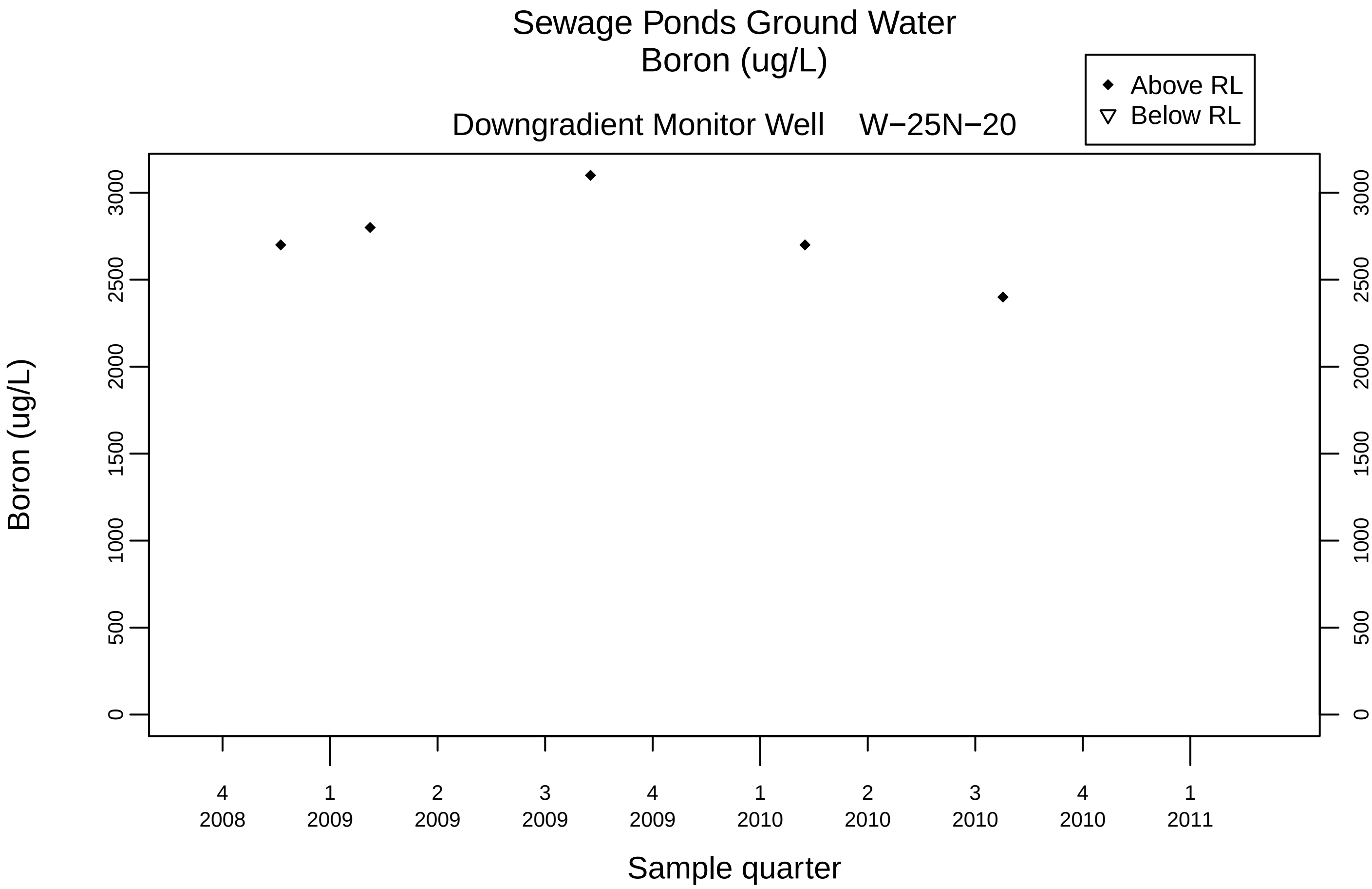

Sewage Ponds Ground Water
Barium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Barium (ug/L)
0
10
20
30
40
50
60
70
3
1
2007
2008
2009
2010
2011
Sample quarter

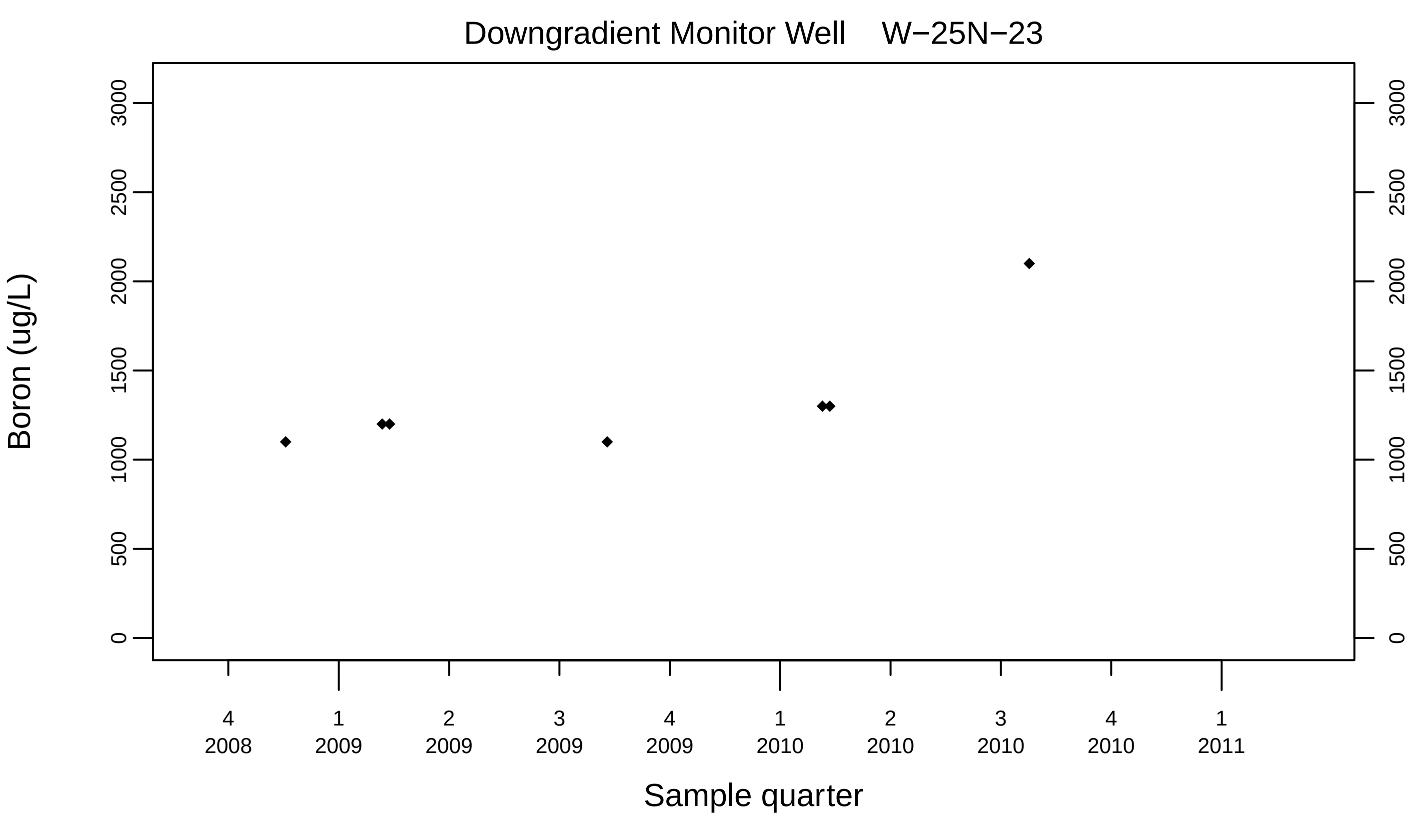

Sewage Ponds Ground Water
Boron (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

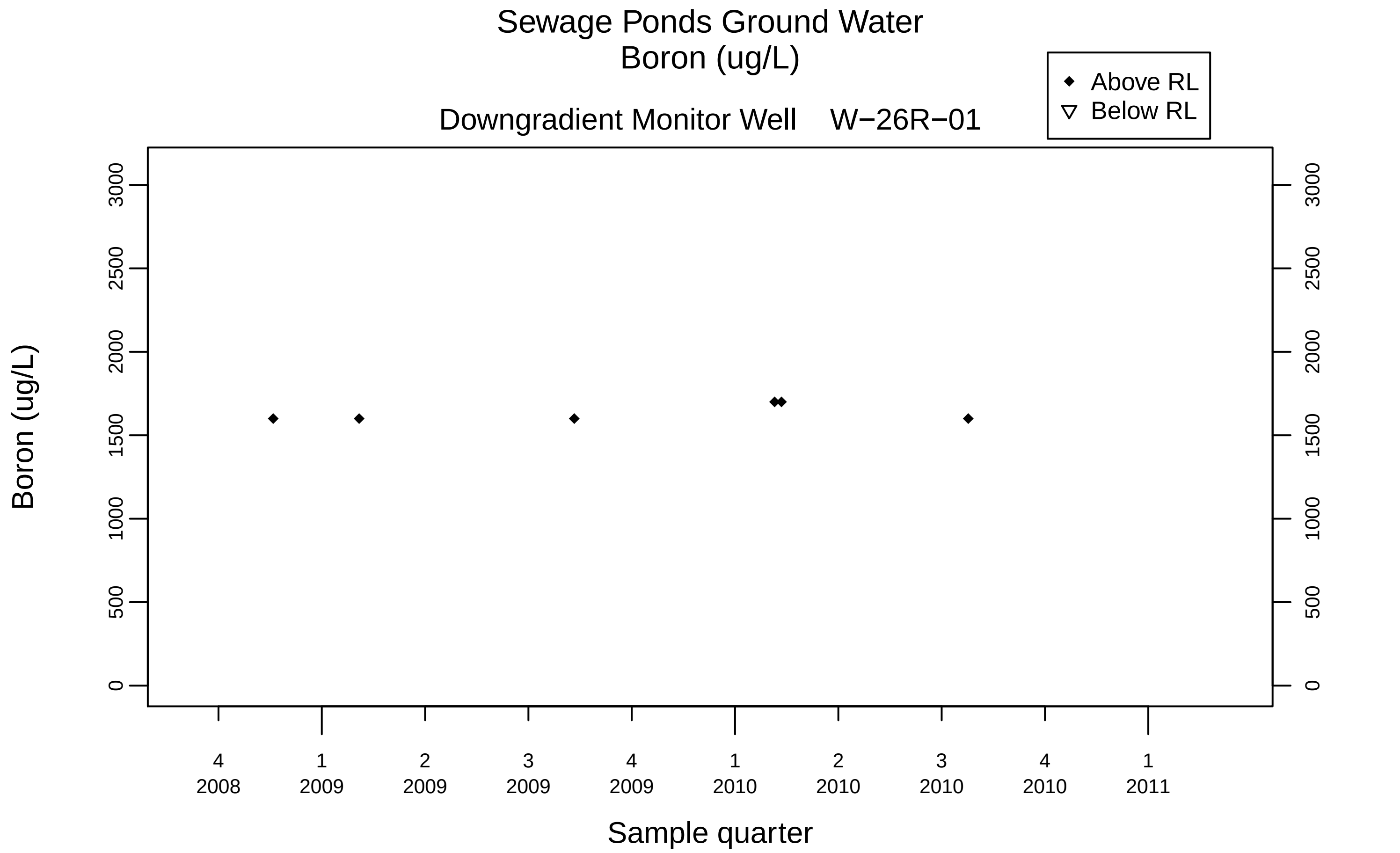

Upgradient Monitor Well W−7PS
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

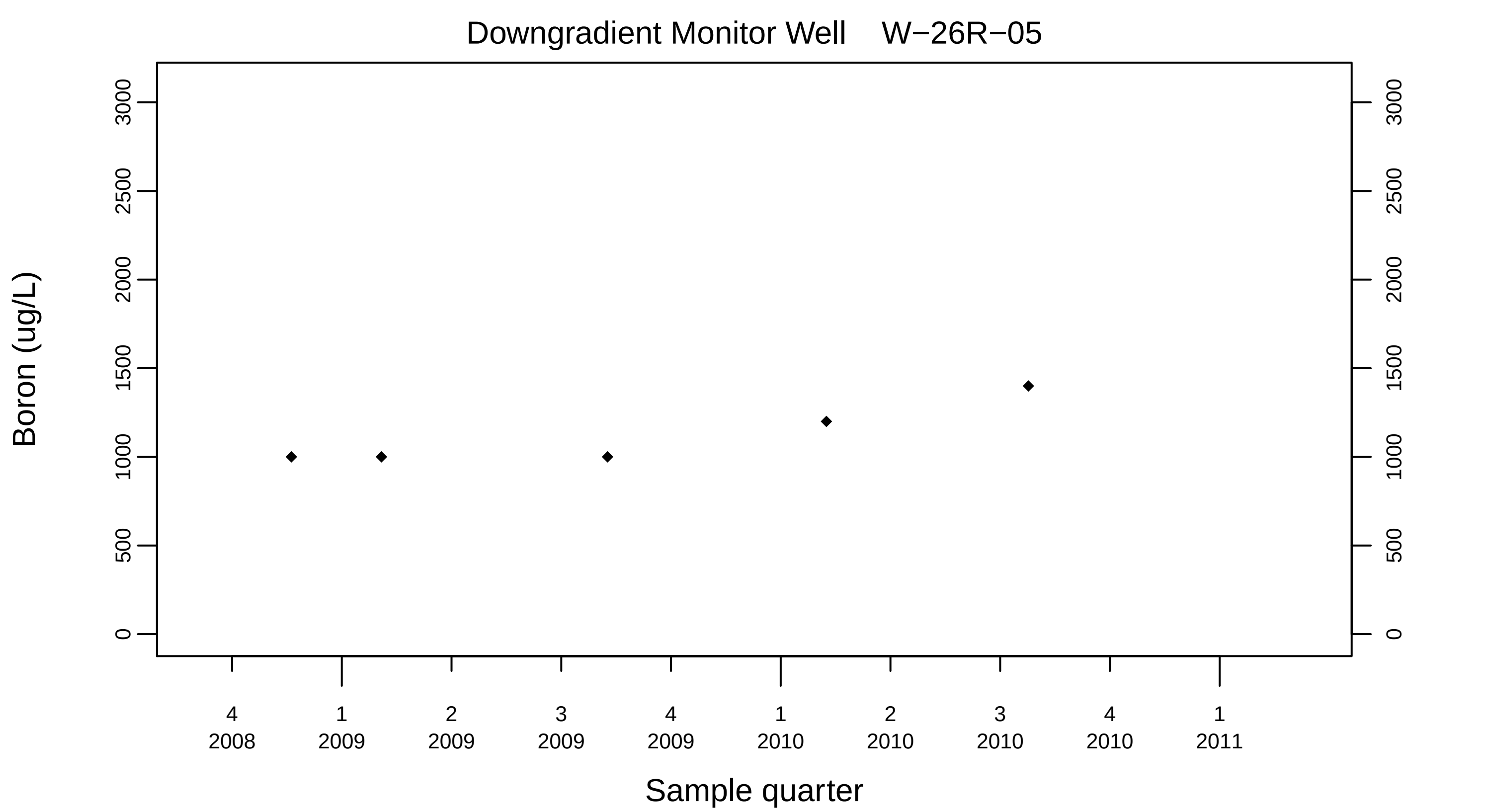

Sewage Ponds Ground Water
Boron (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

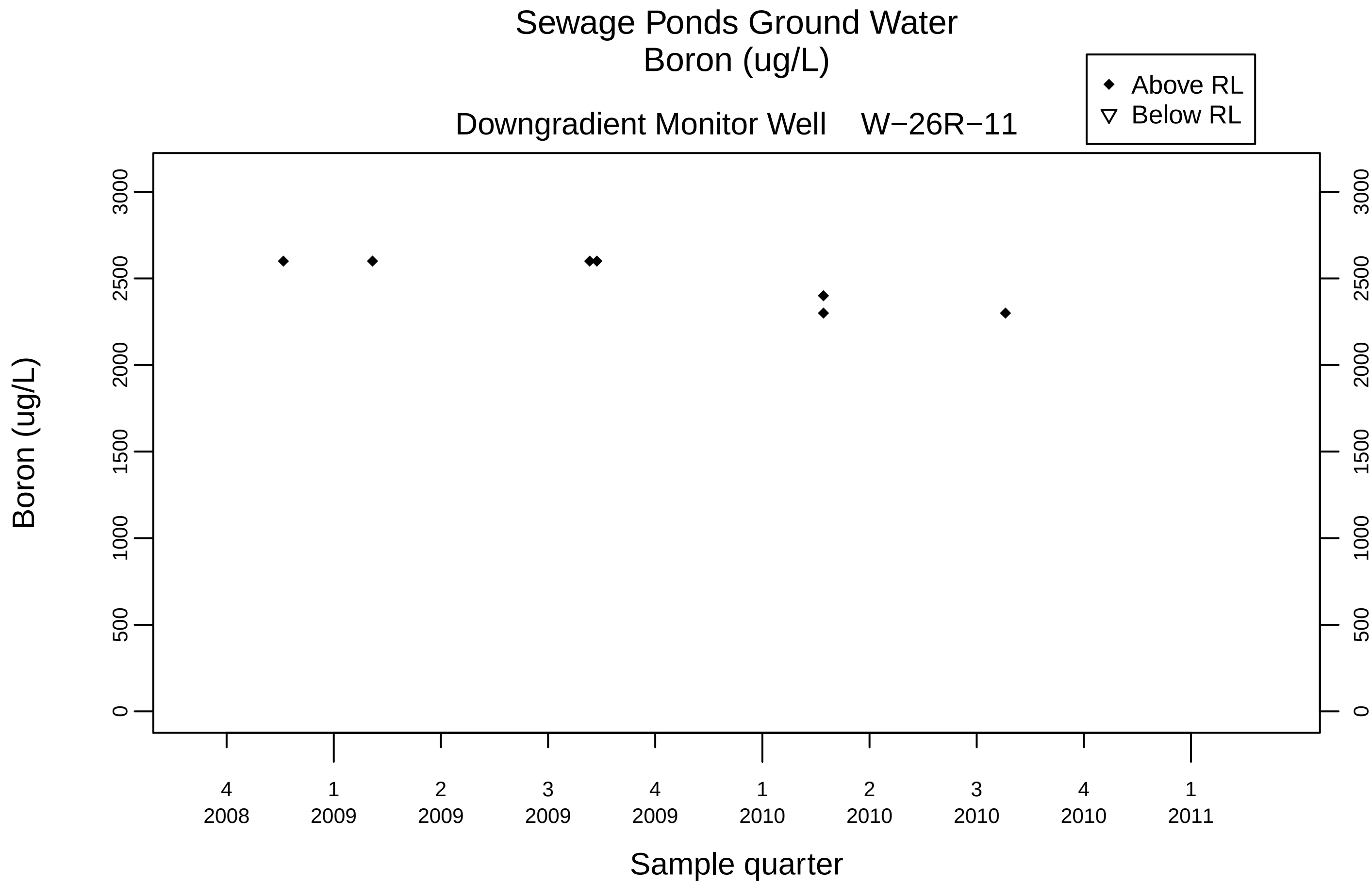

Downgradient Monitor Well W−7DS
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

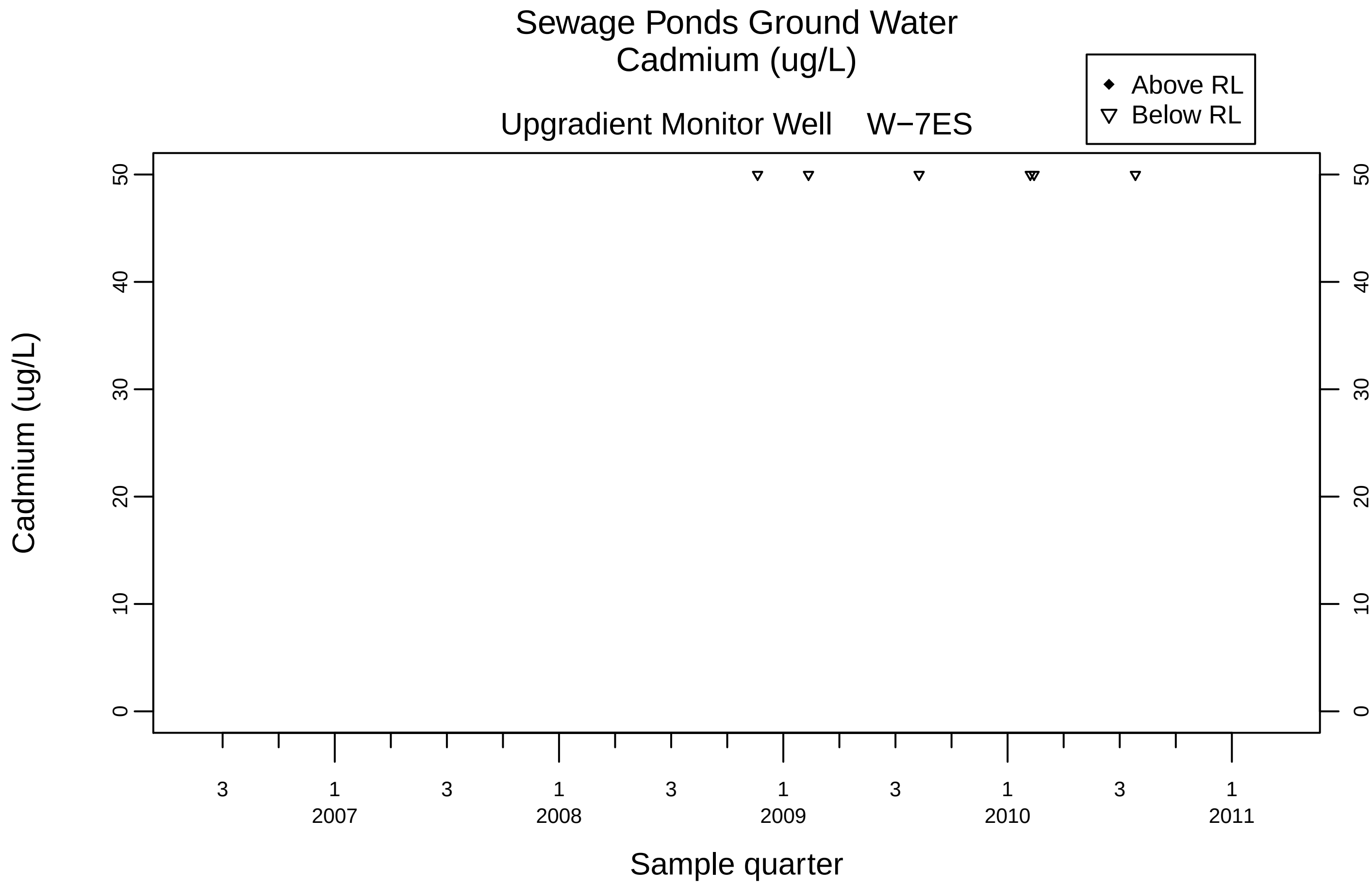

Sewage Ponds Ground Water
Boron (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

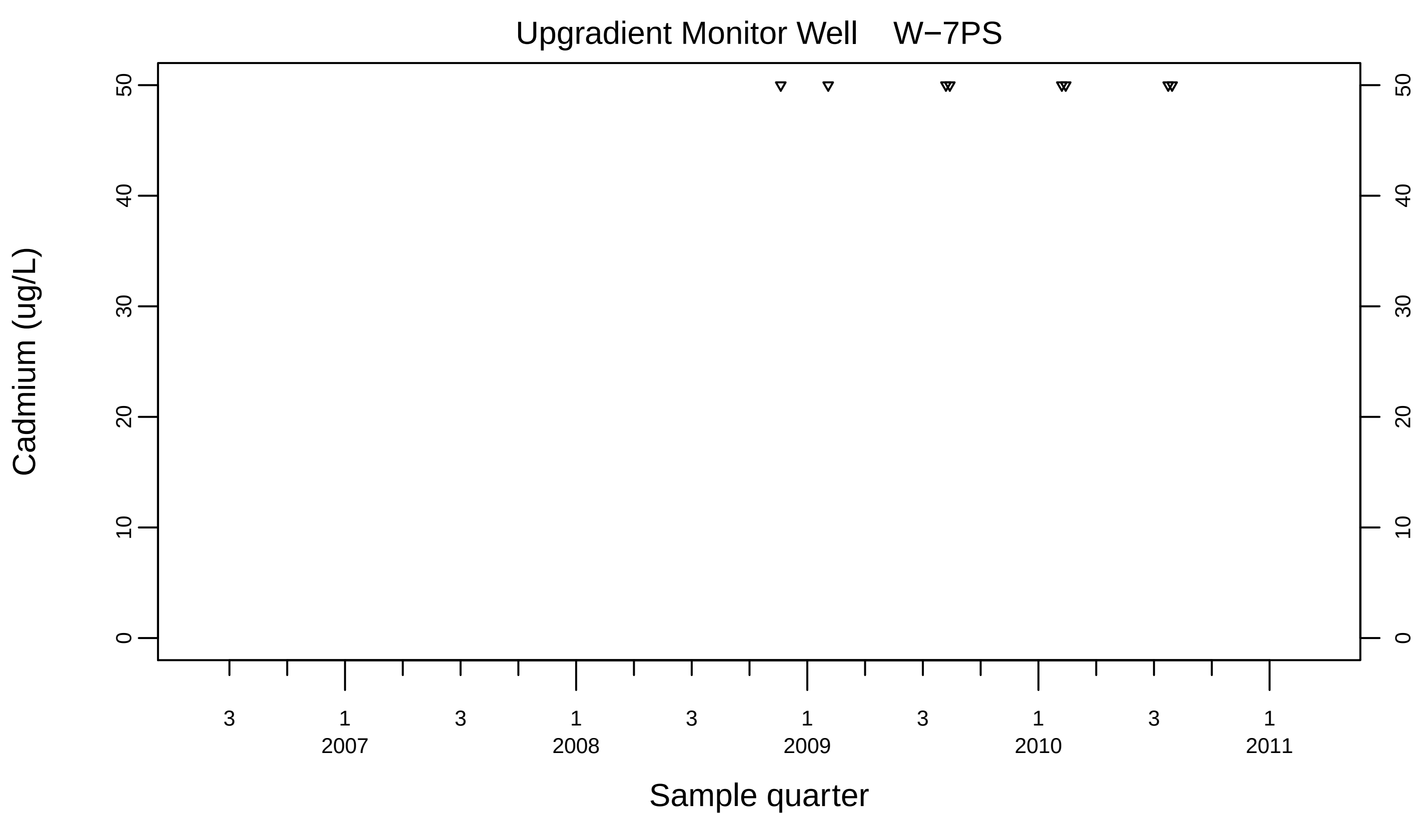

Downgradient Monitor Well W−25N−23
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


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
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

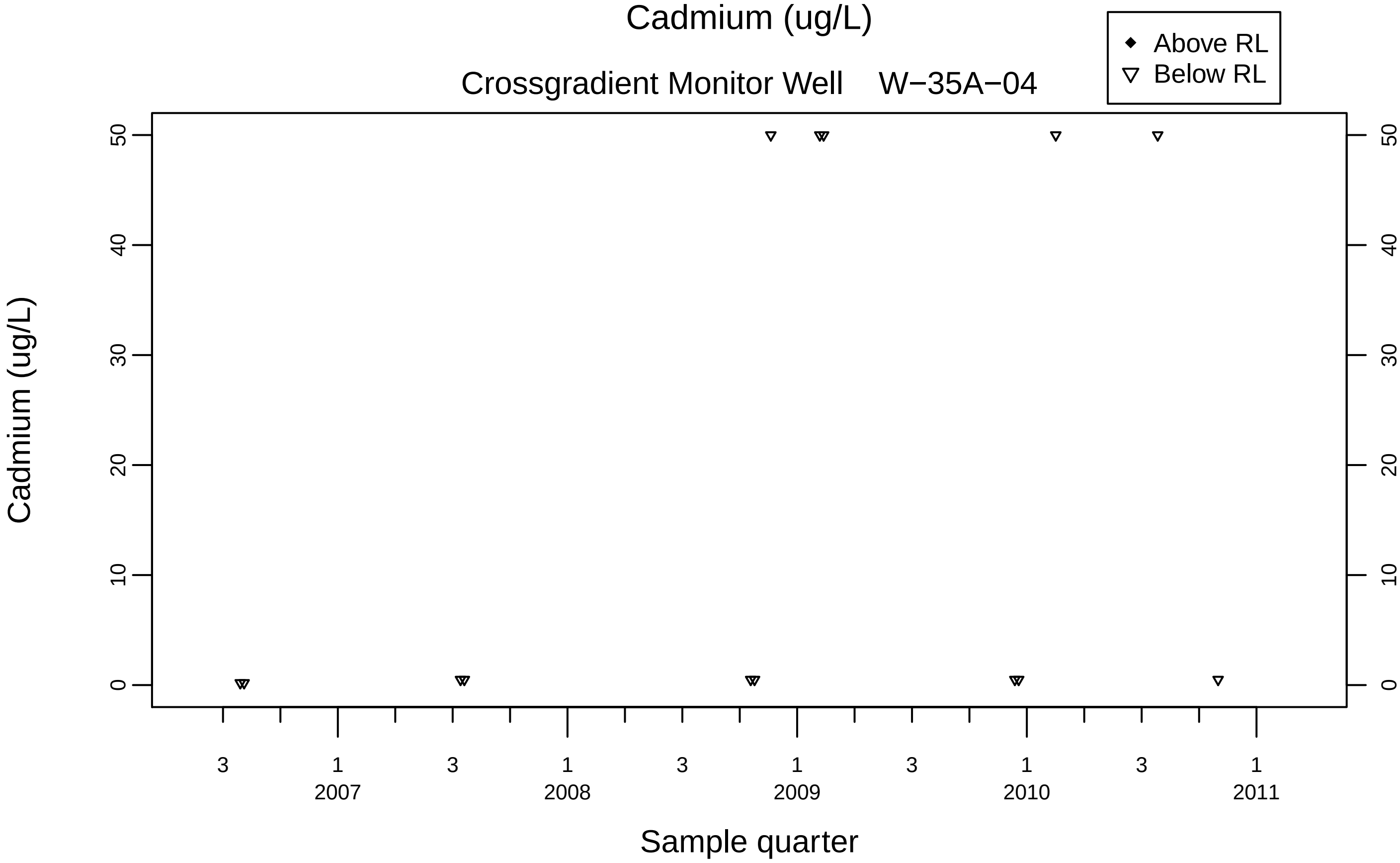

Downgradient Monitor Well W−26R−05
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

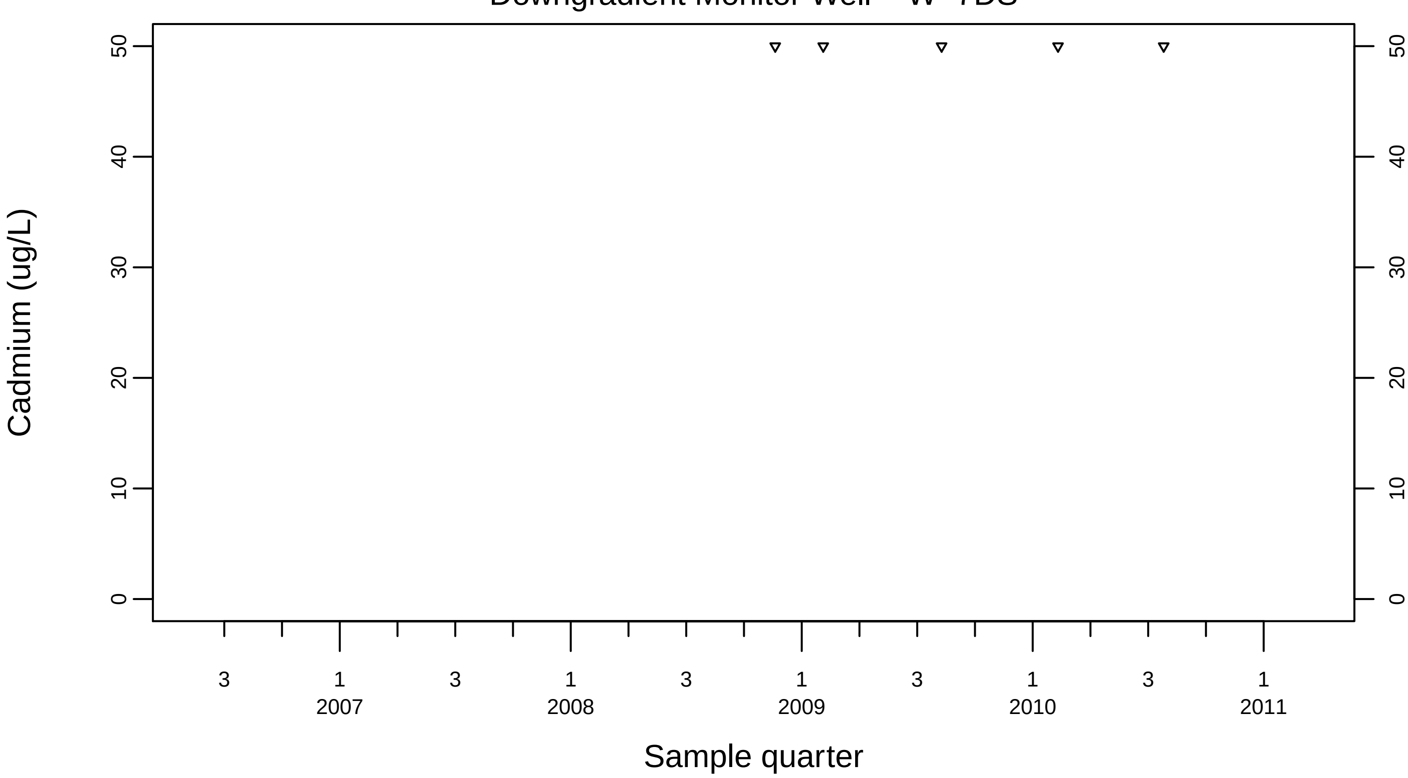

Sewage Ponds Ground Water
Boron (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Boron (ug/L)
0
500
1000
1500
2000
2500
3000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


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
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

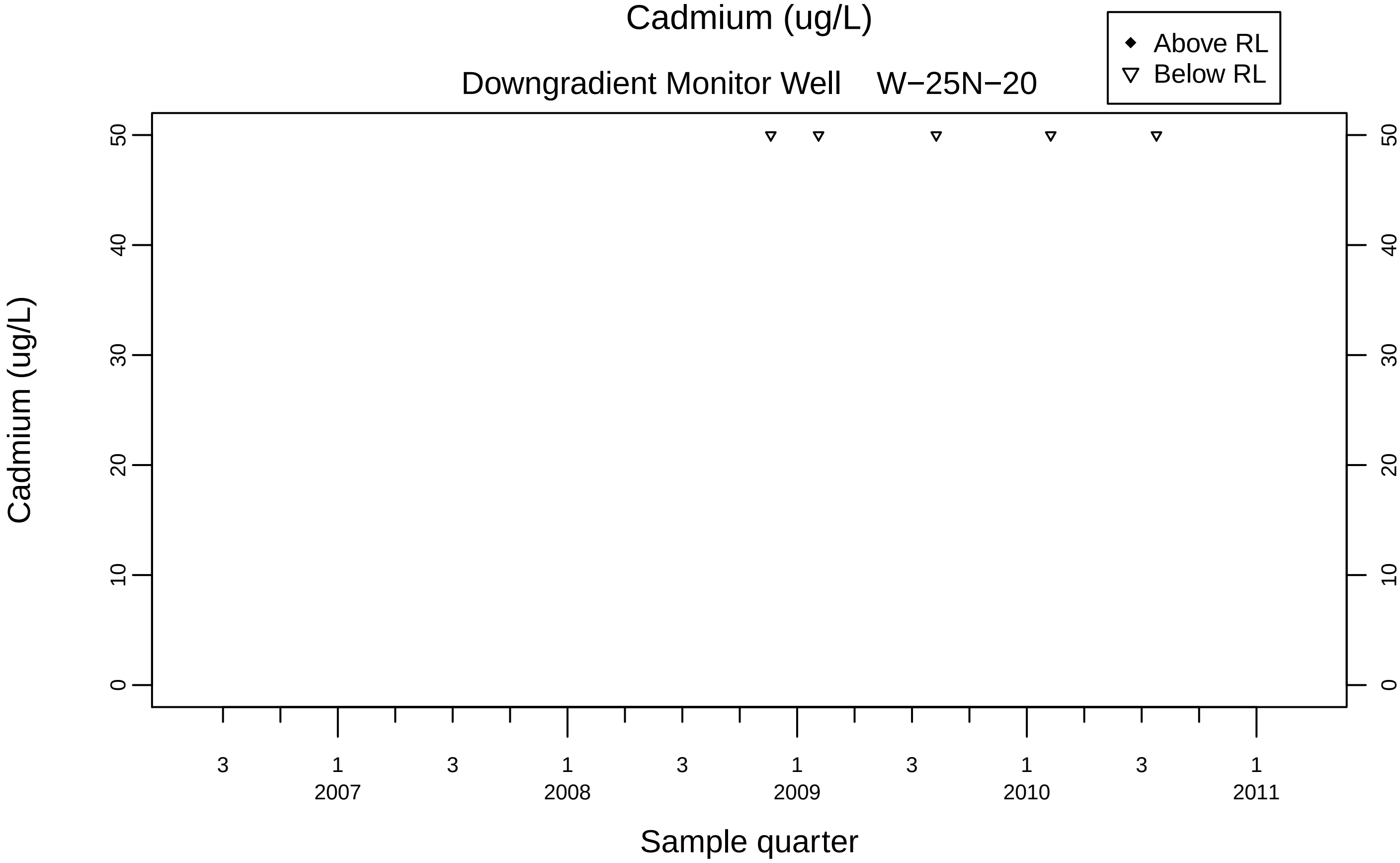

Upgradient Monitor Well W−7PS
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

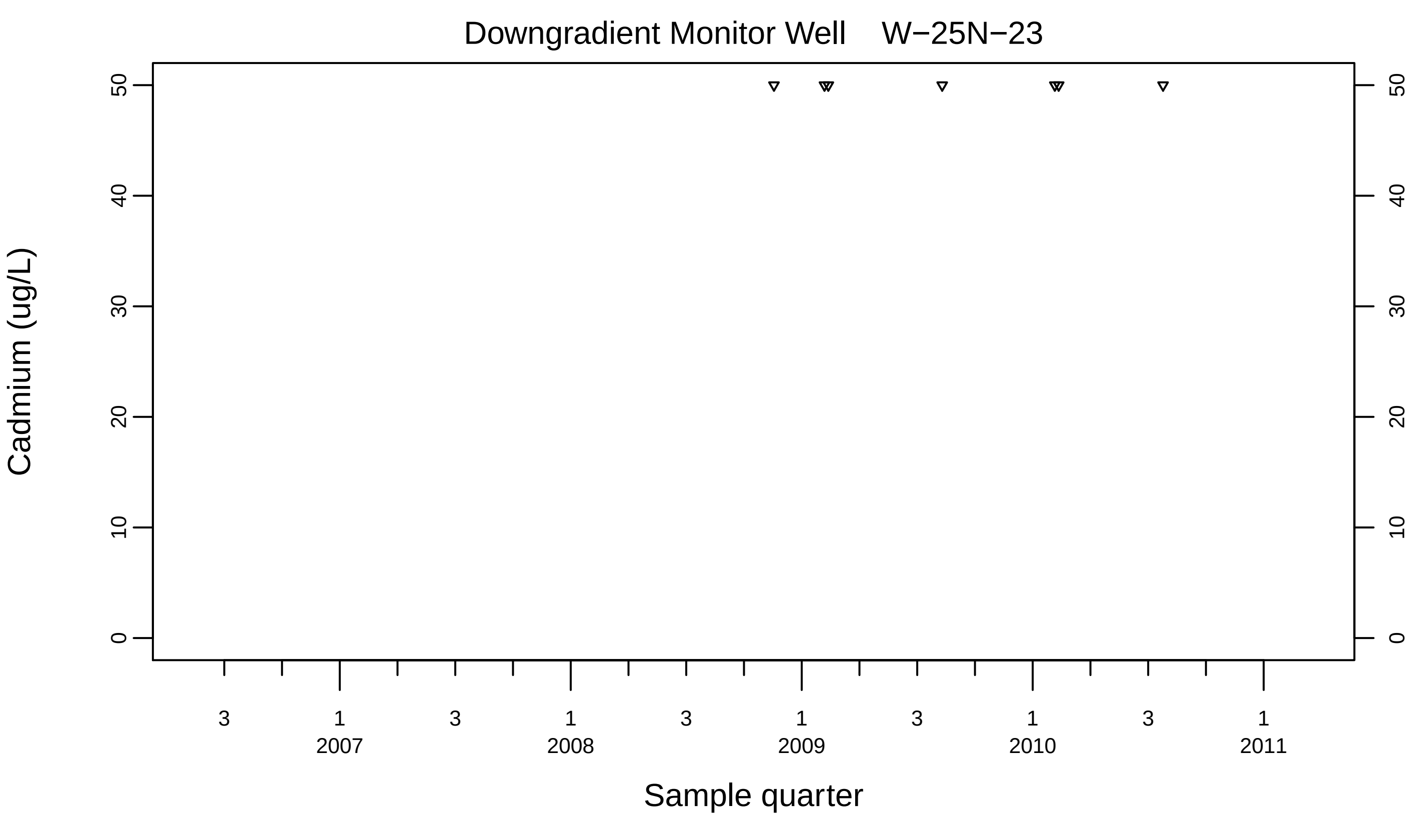
Sewage Ponds Ground Water
Cadmium (ug/L)



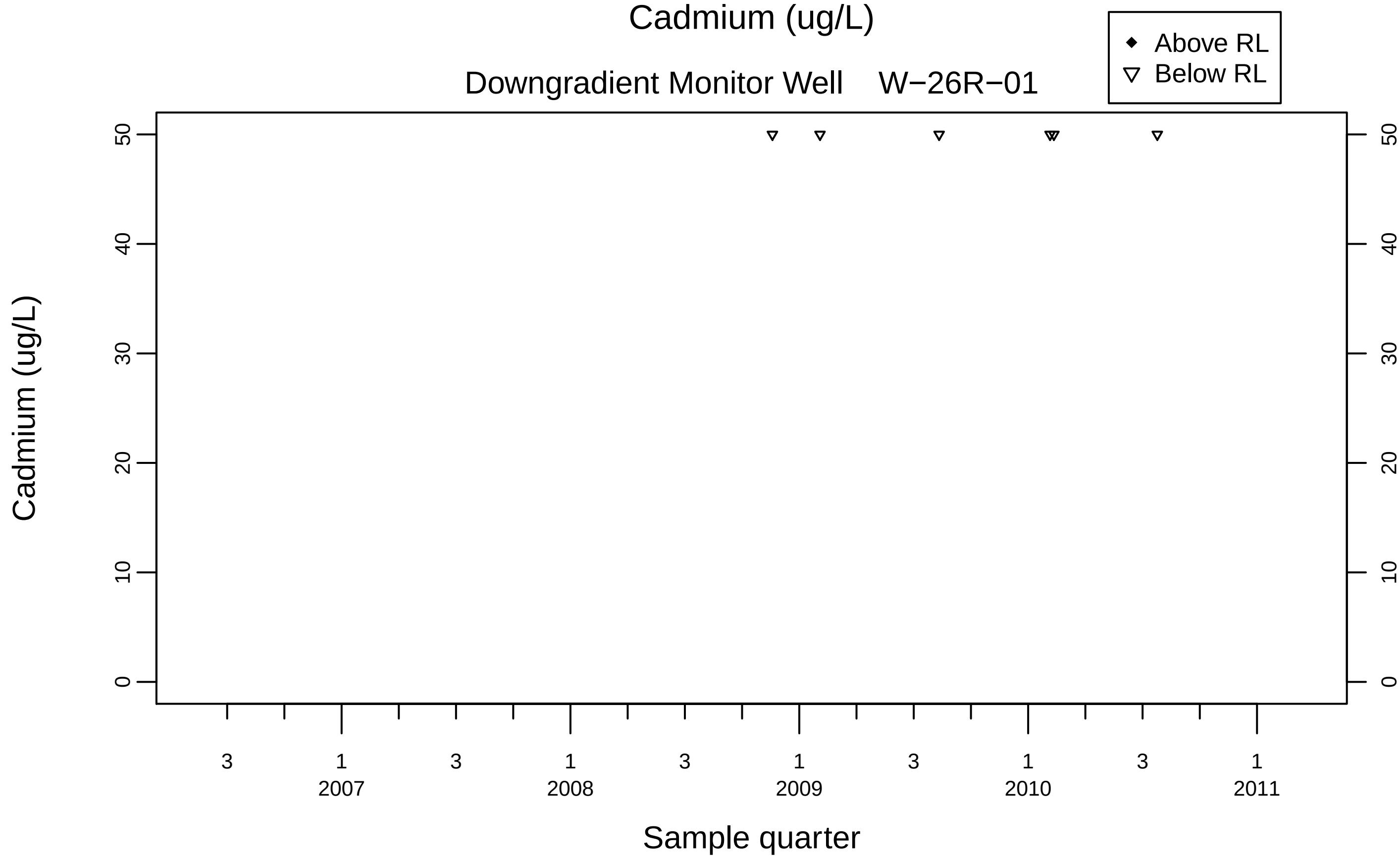


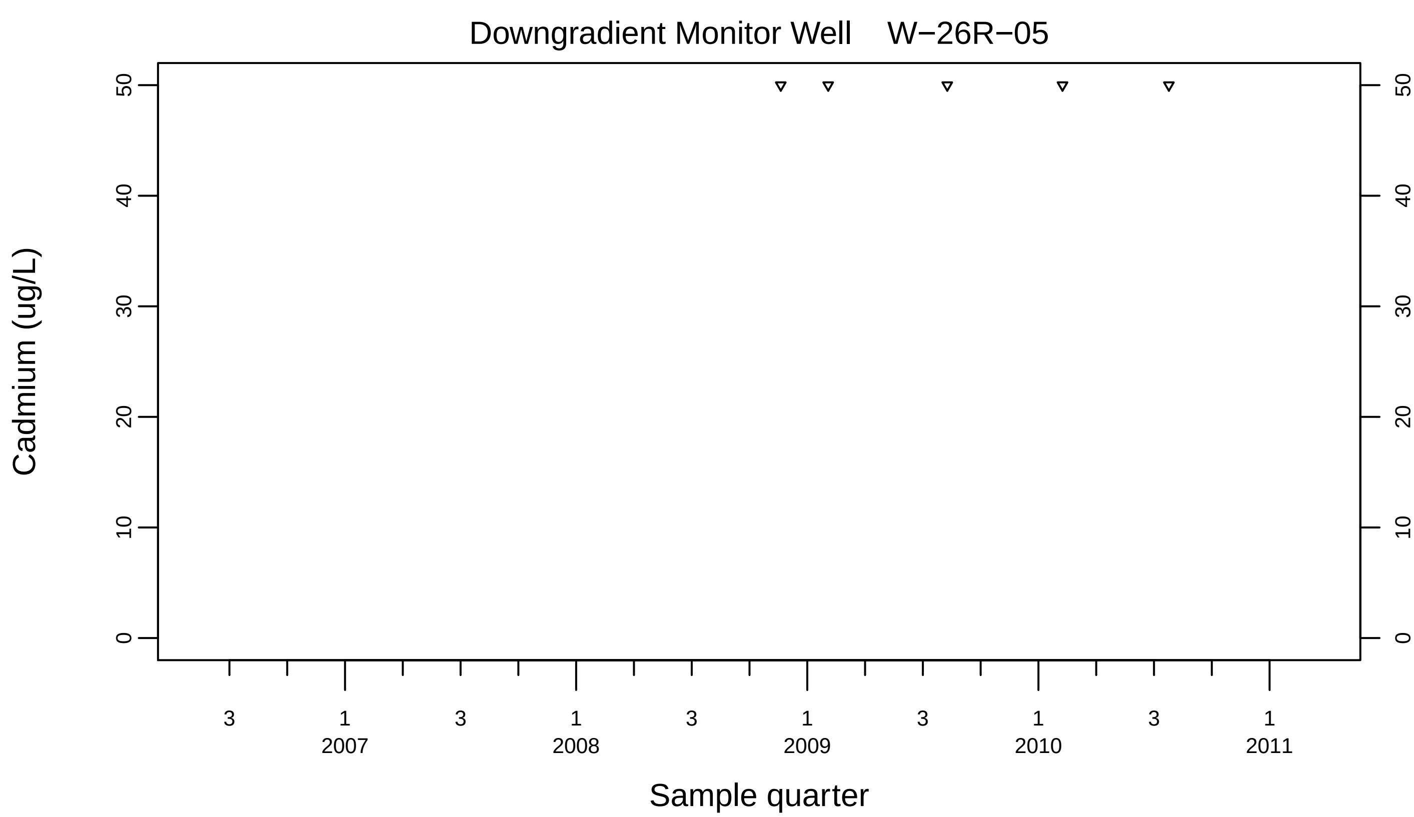
Sewage Ponds Ground Water
Cadmium (ug/L)

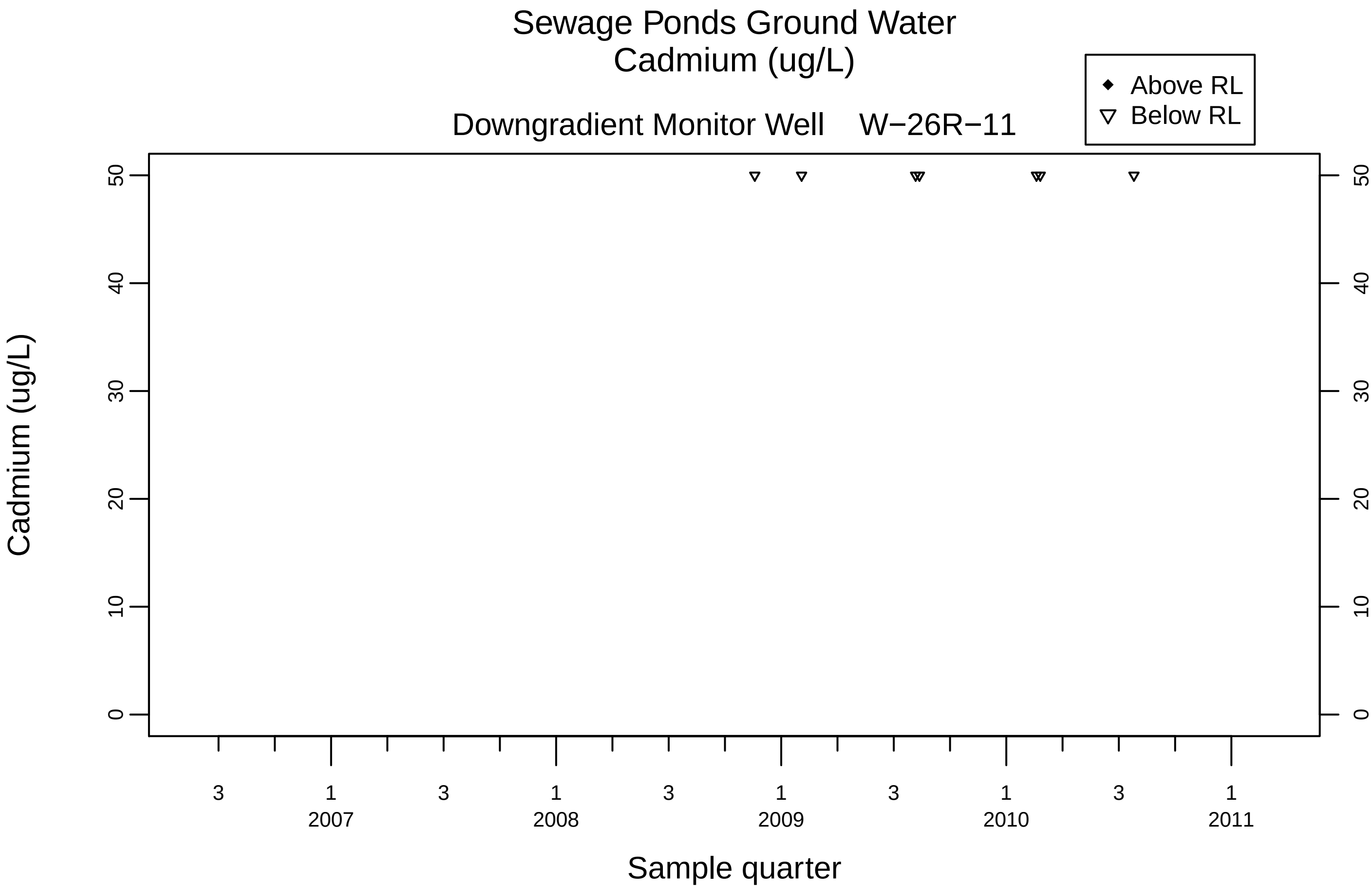




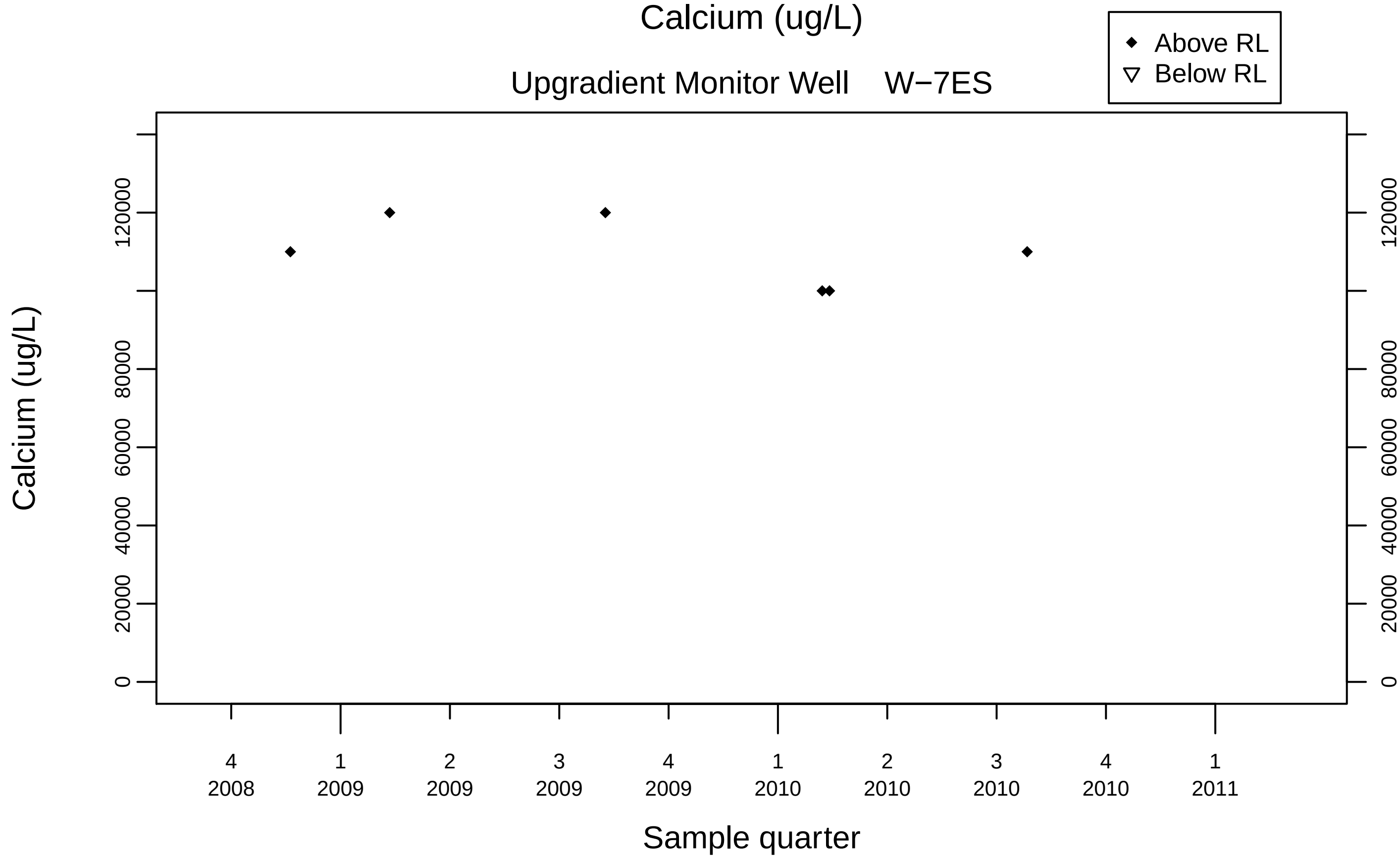
Sewage Ponds Ground Water
Cadmium (ug/L)

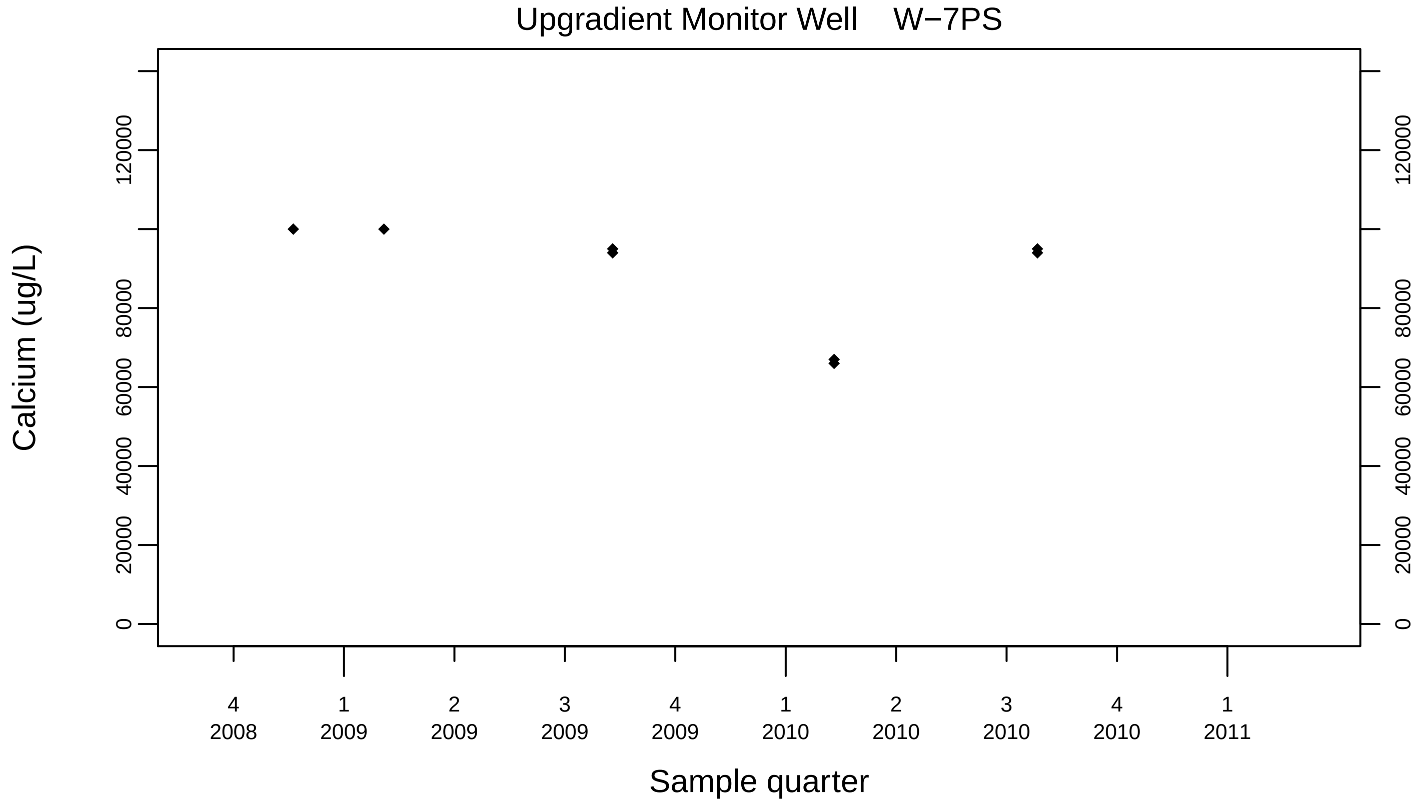




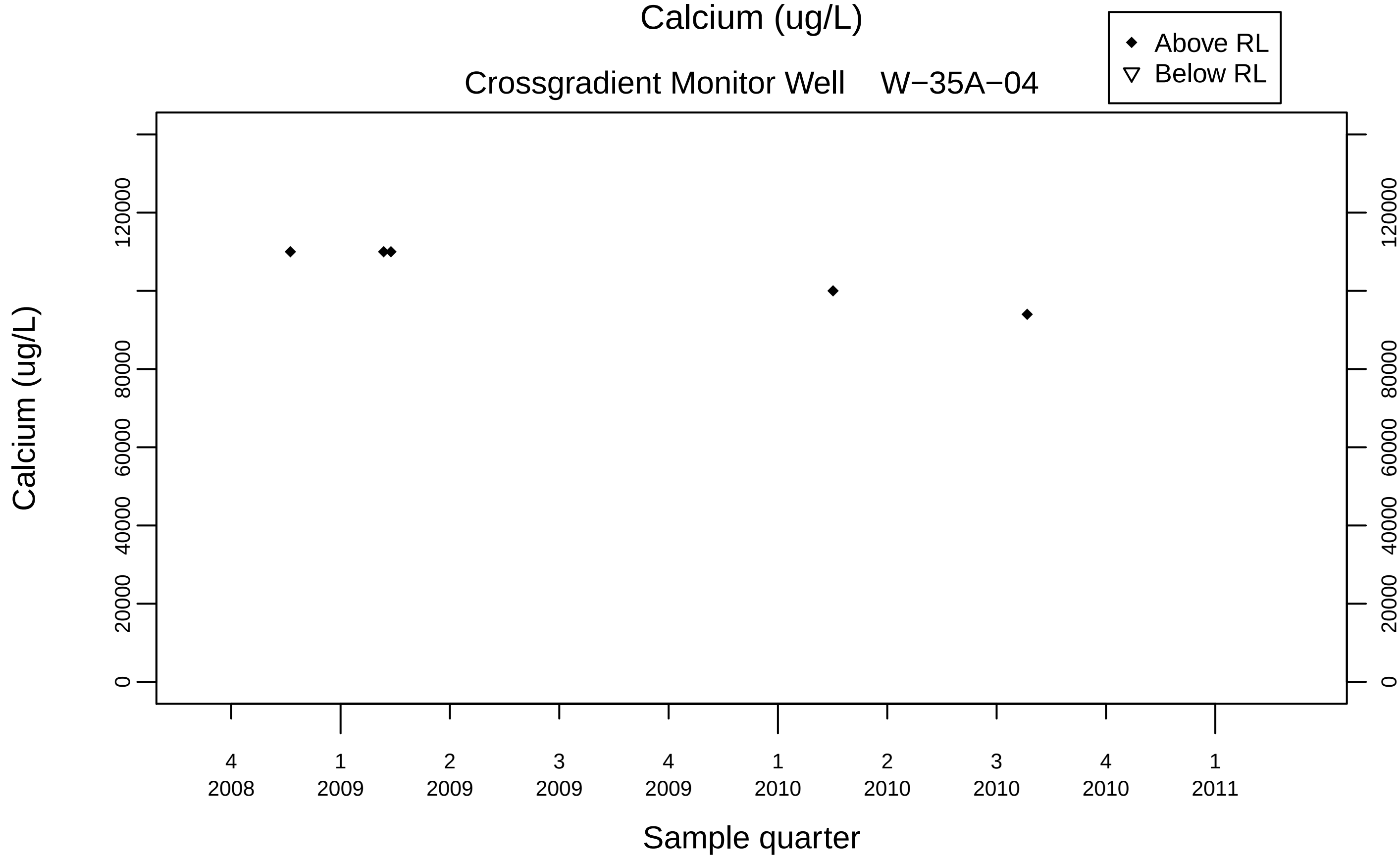

Sewage Ponds Ground Water
Cadmium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Cadmium (ug/L)
0
10
20
30
40
50
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

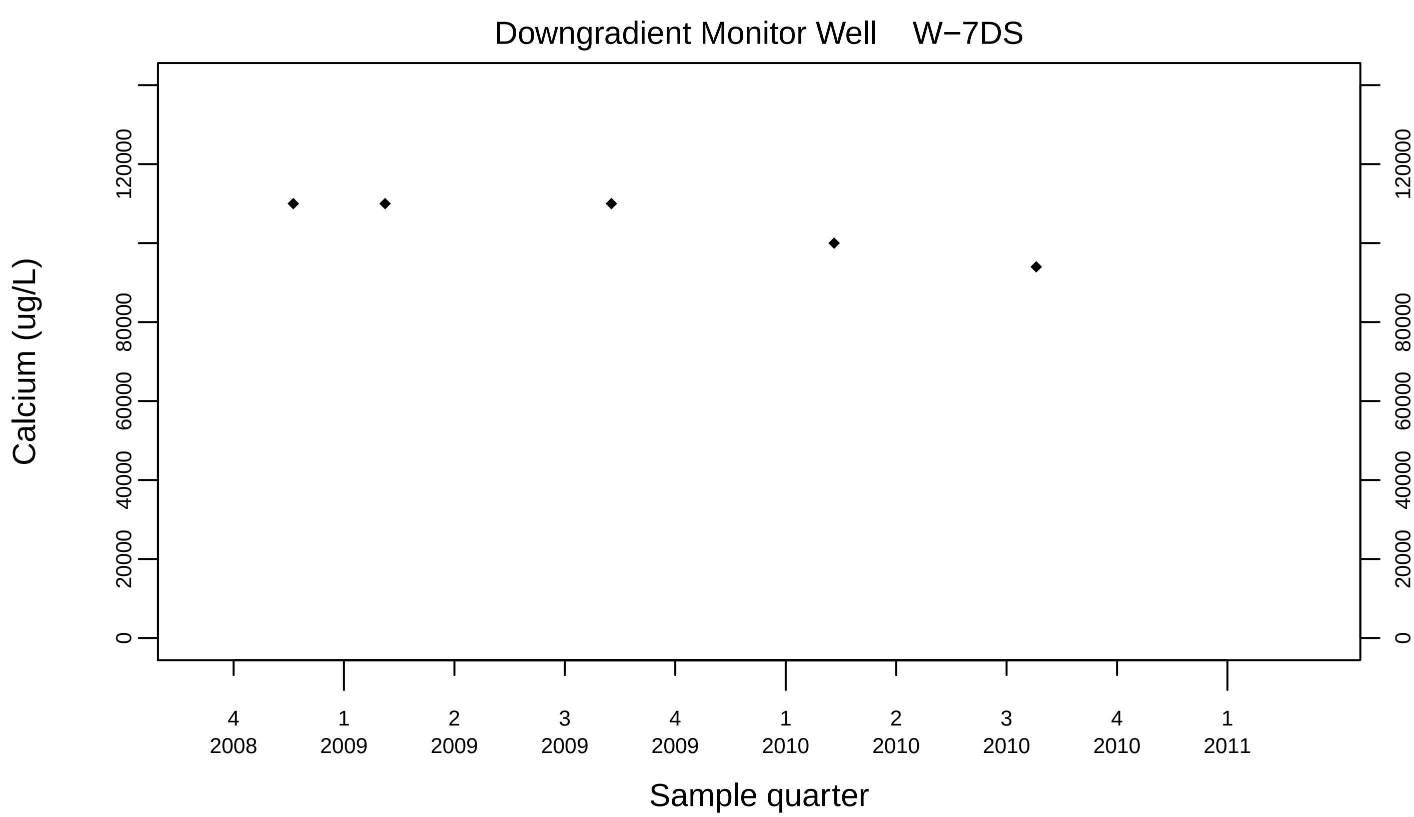
Sewage Ponds Ground Water
Calcium (ug/L)



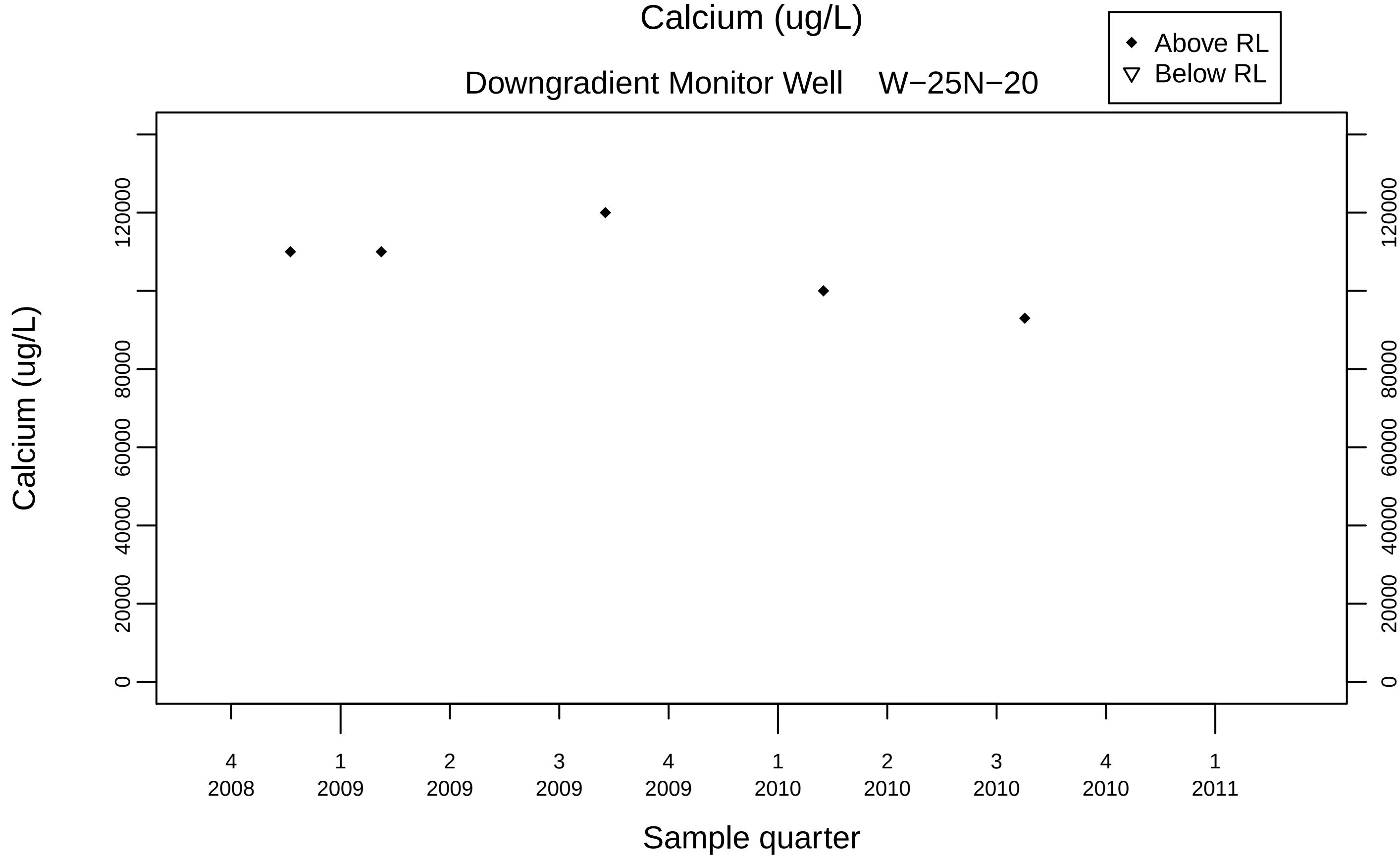


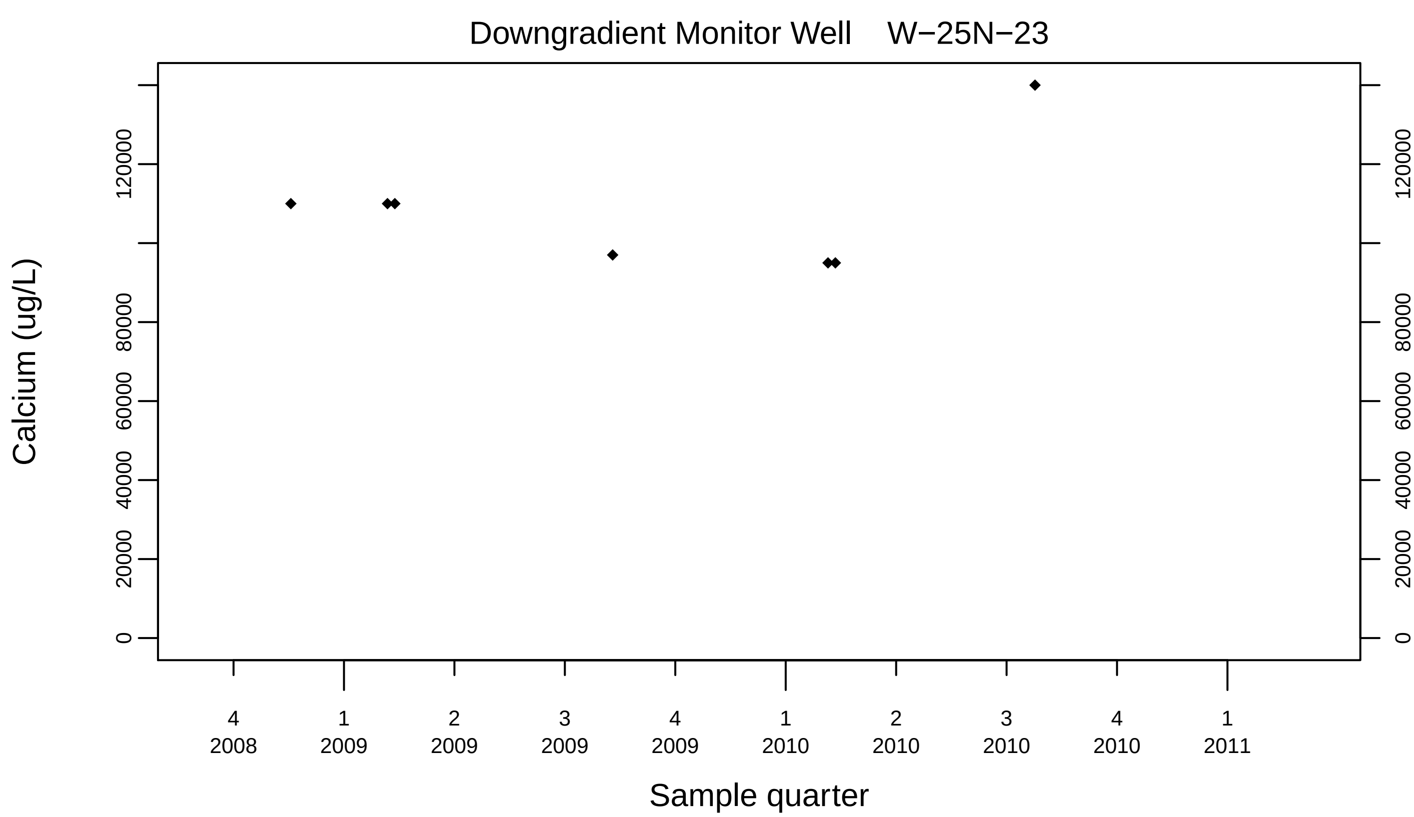
Sewage Ponds Ground Water
Calcium (ug/L)



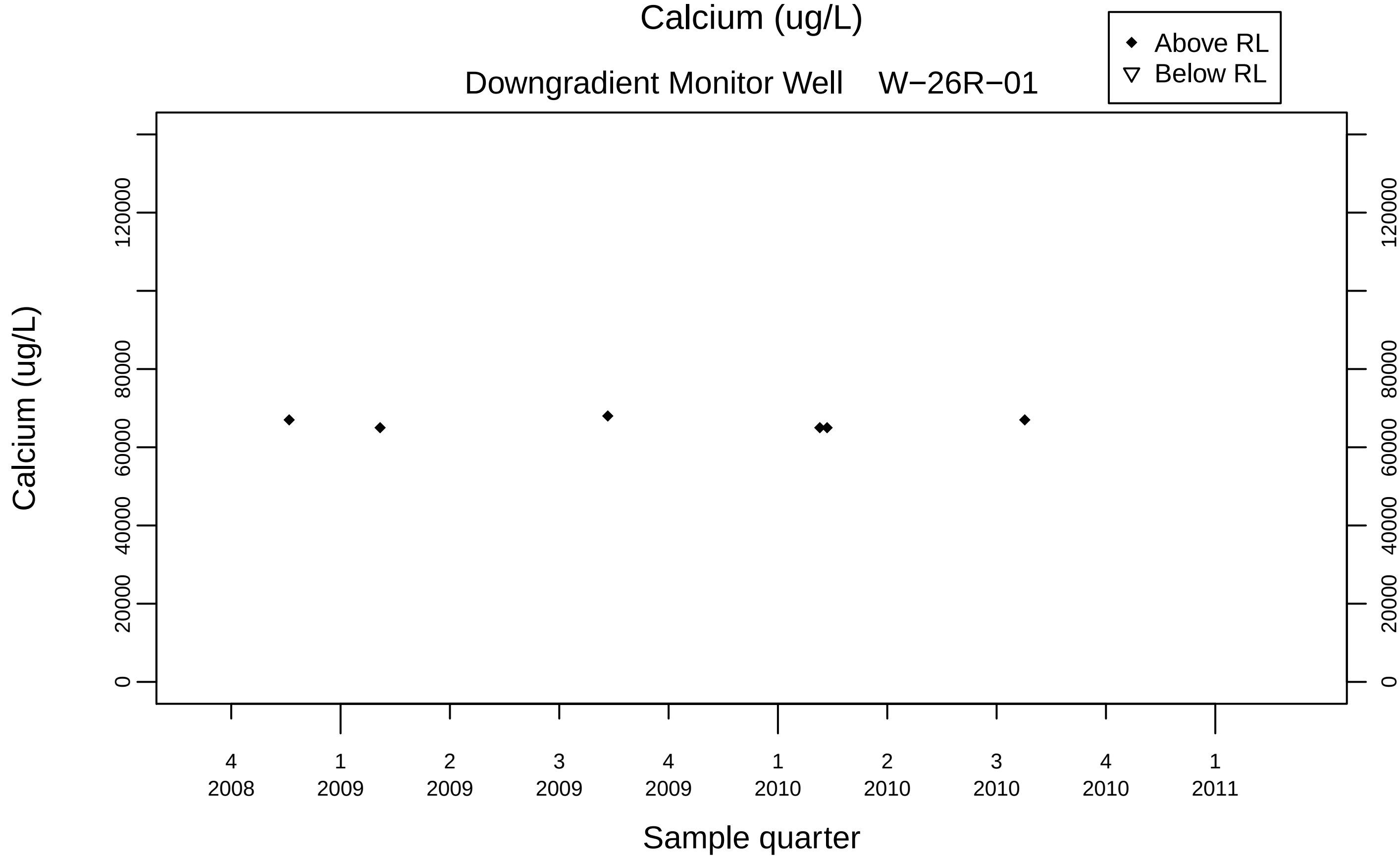


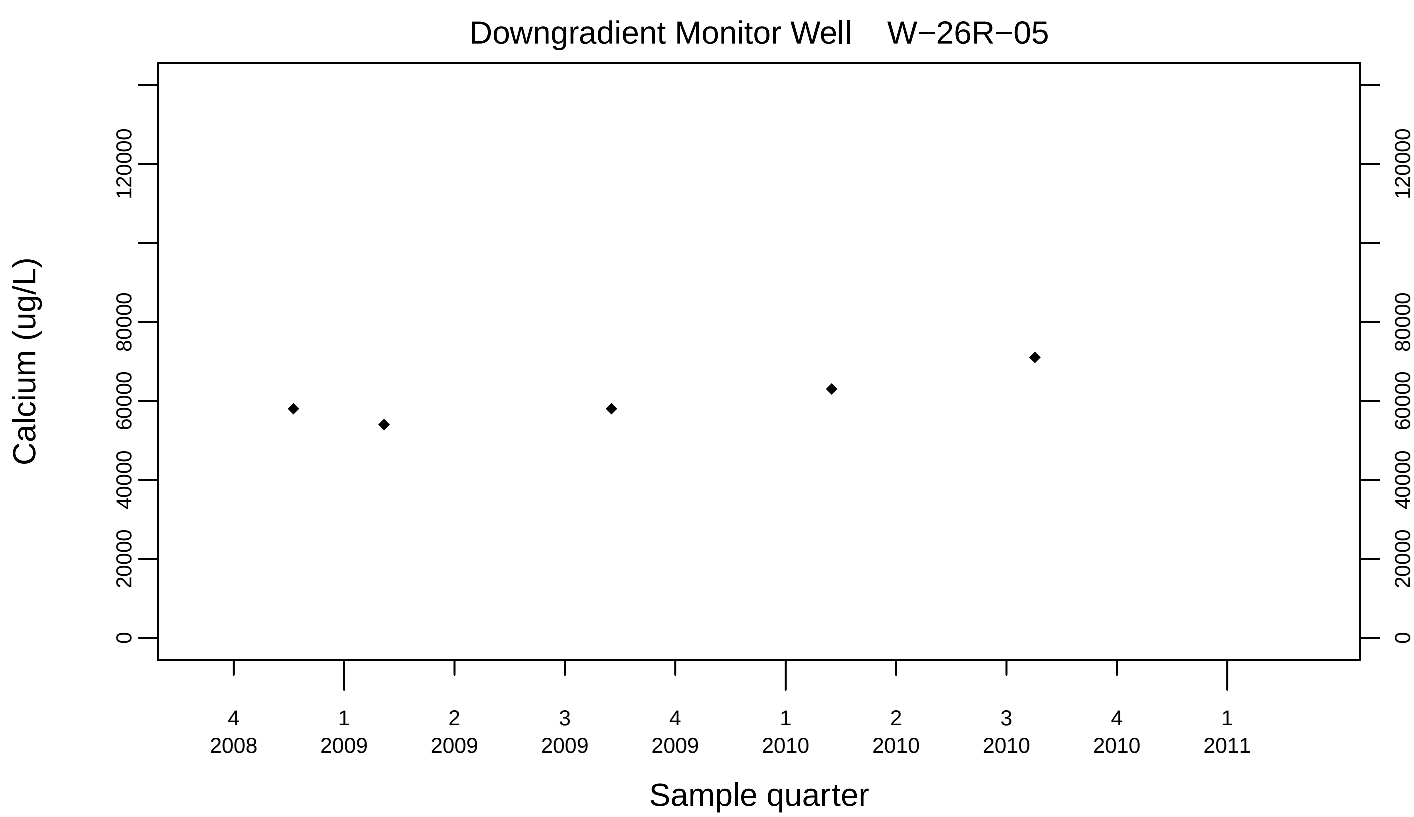
Sewage Ponds Ground Water
Calcium (ug/L)

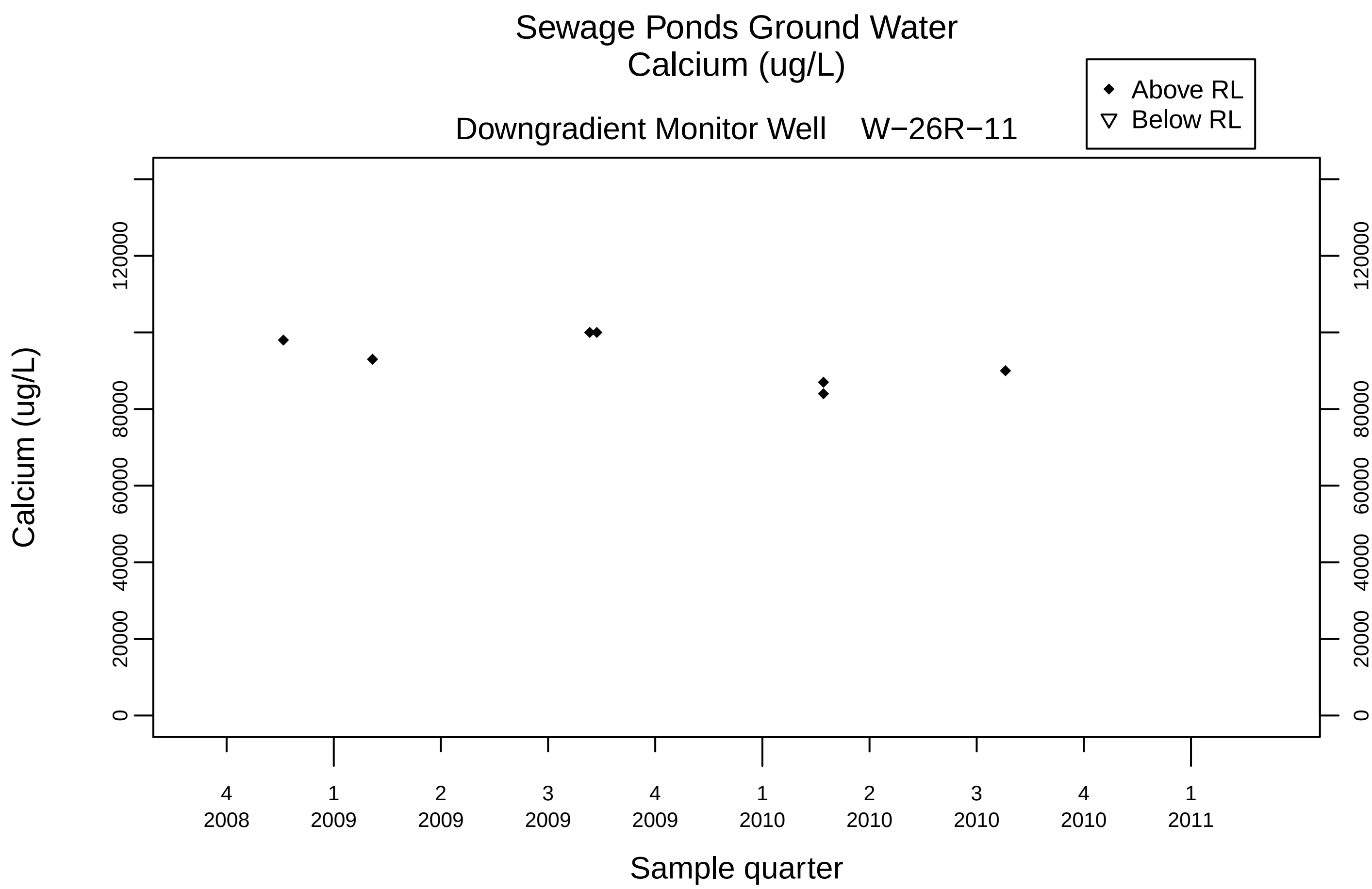


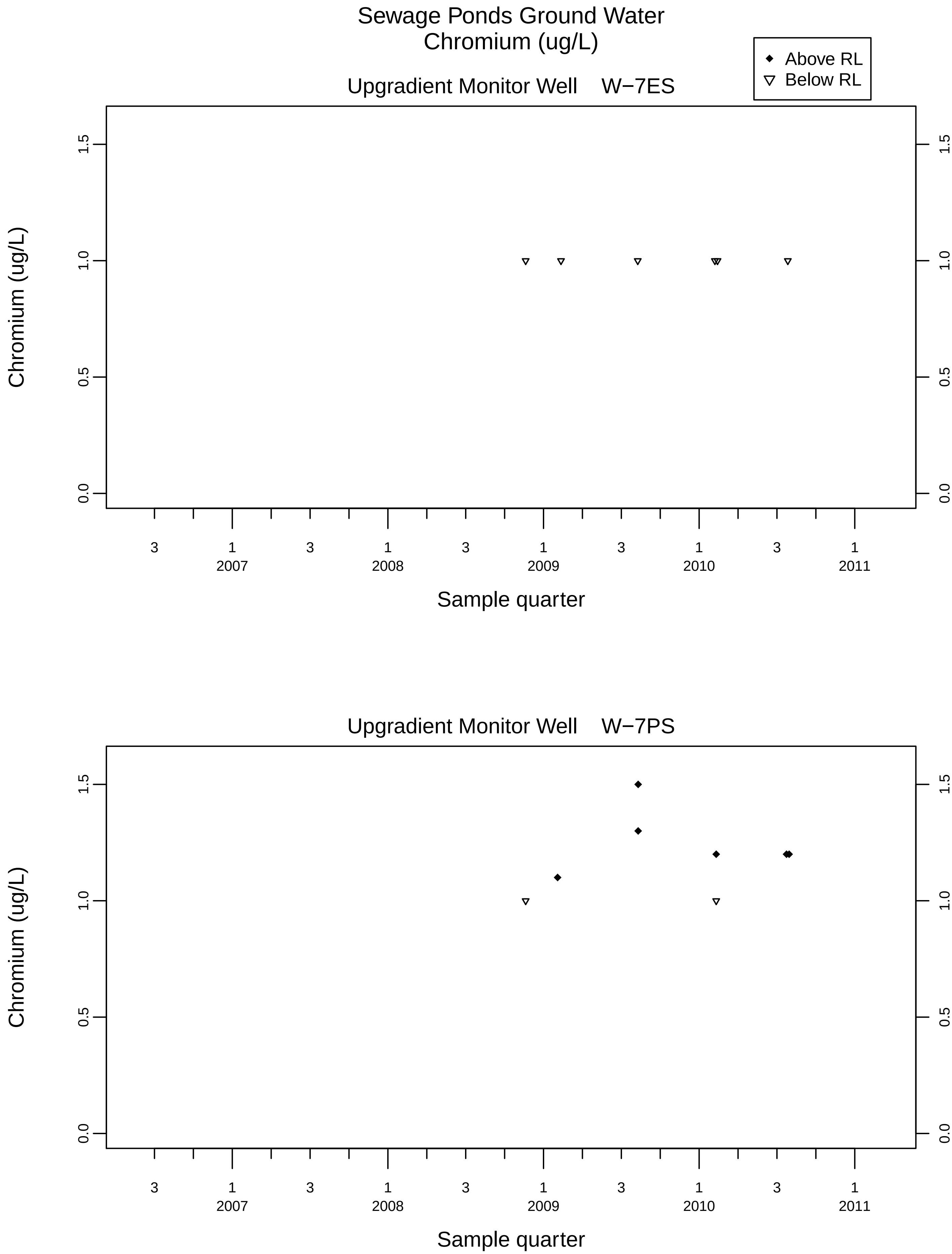


Sewage Ponds Ground Water
Calcium (ug/L)

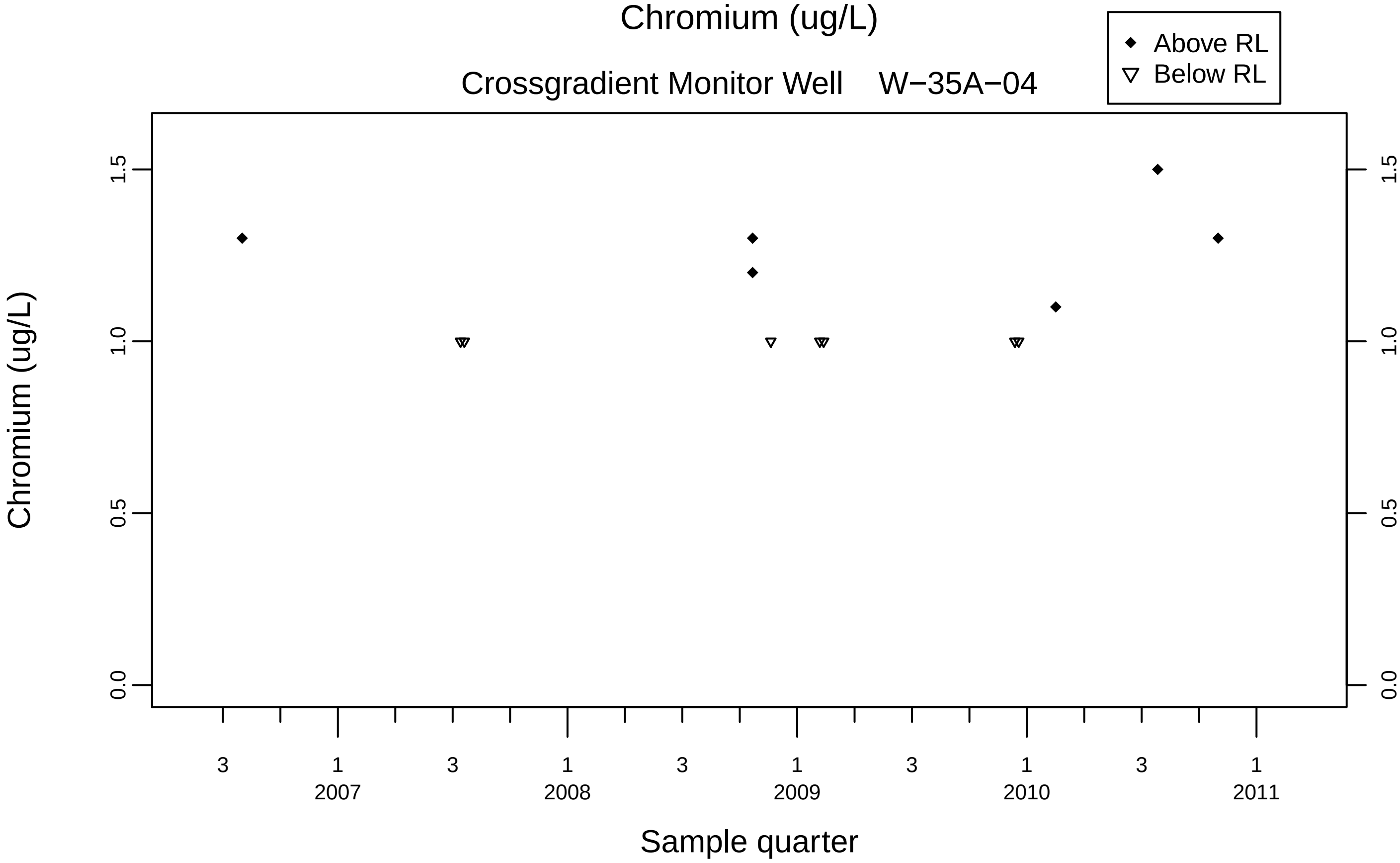


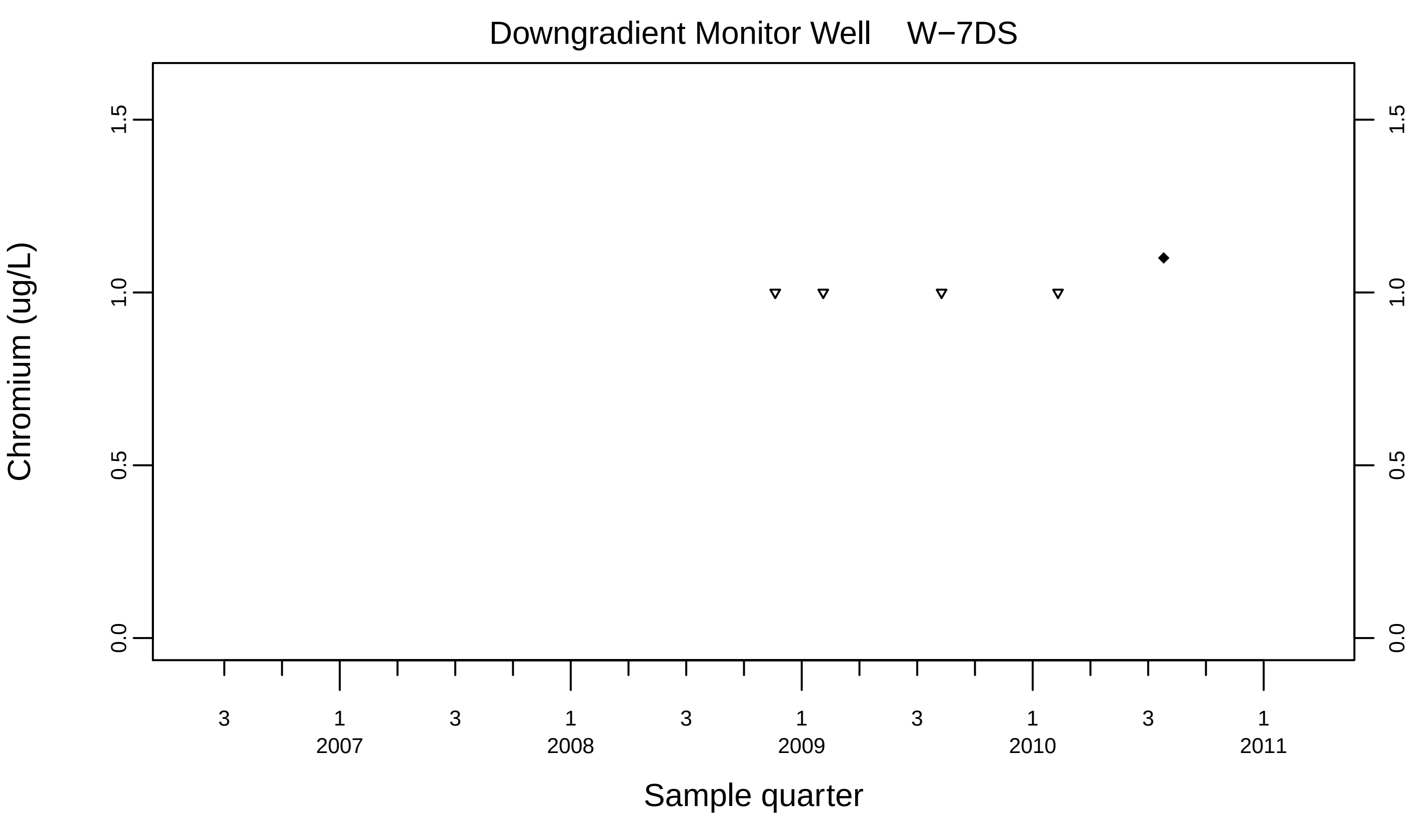



Sewage Ponds Ground Water
Calcium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Calcium (ug/L)
0
20000
40000
60000
80000
120000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

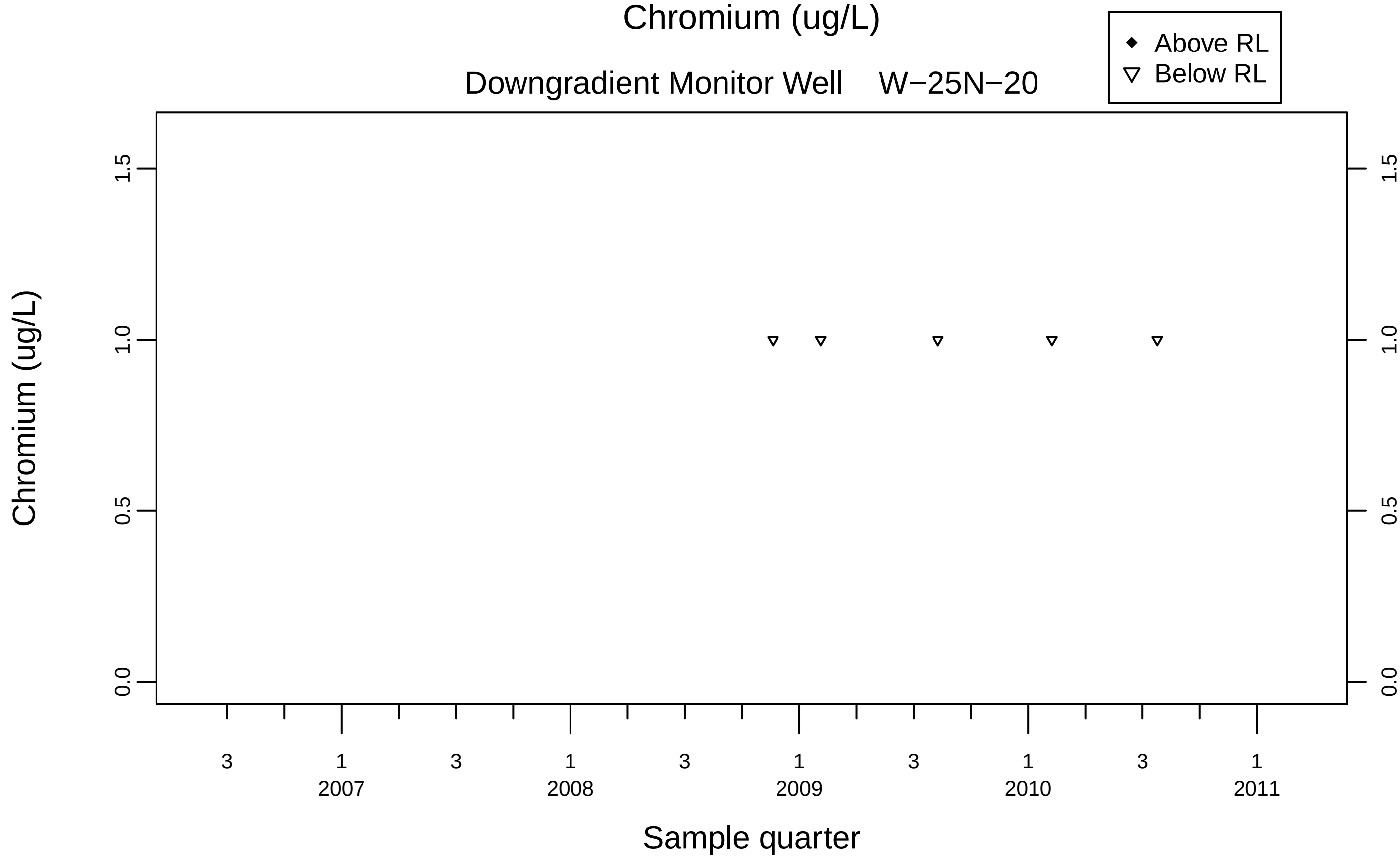

Sewage Ponds Ground Water
Chromium (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter
Upgradient Monitor Well W−7PS
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

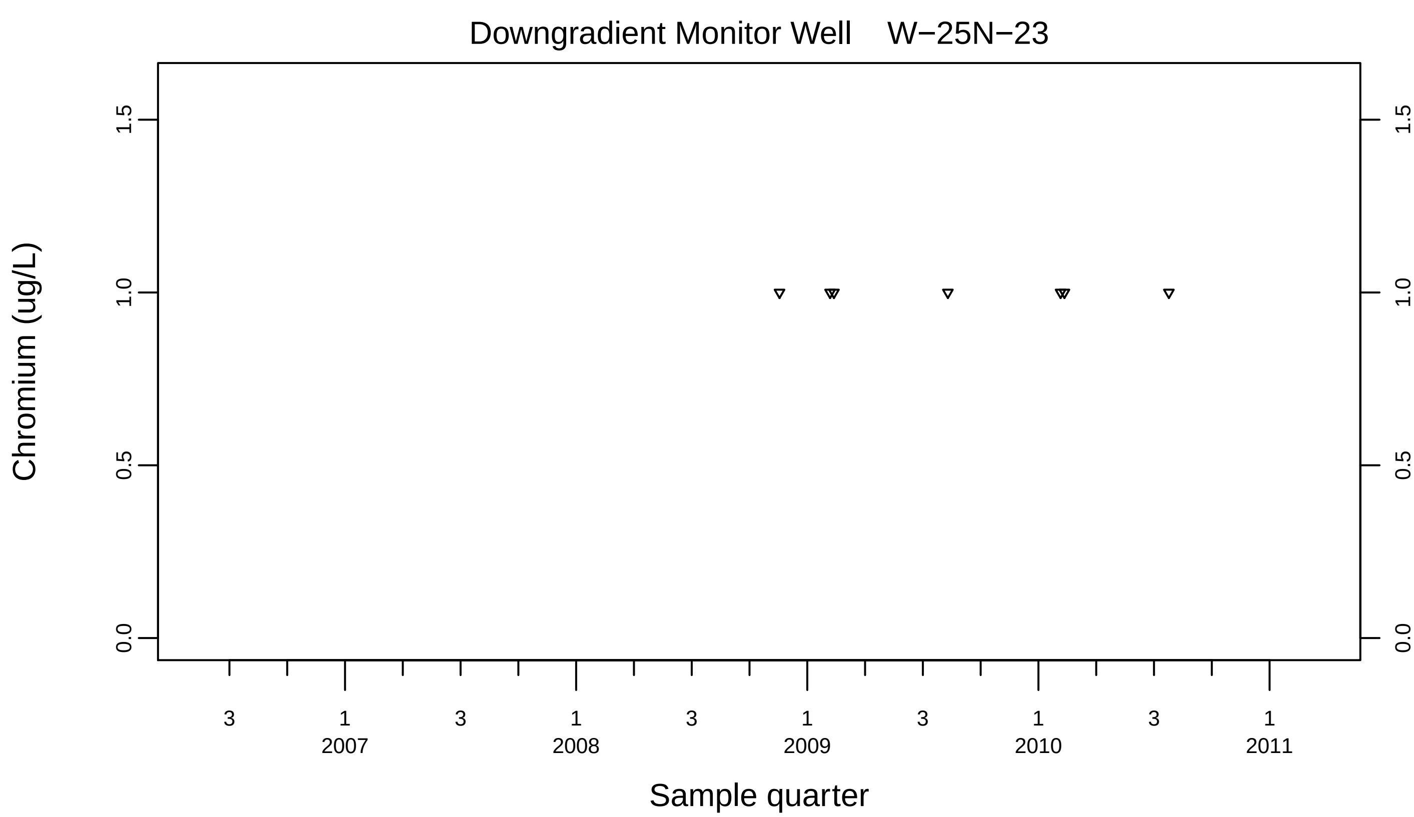
Sewage Ponds Ground Water
Chromium (ug/L)

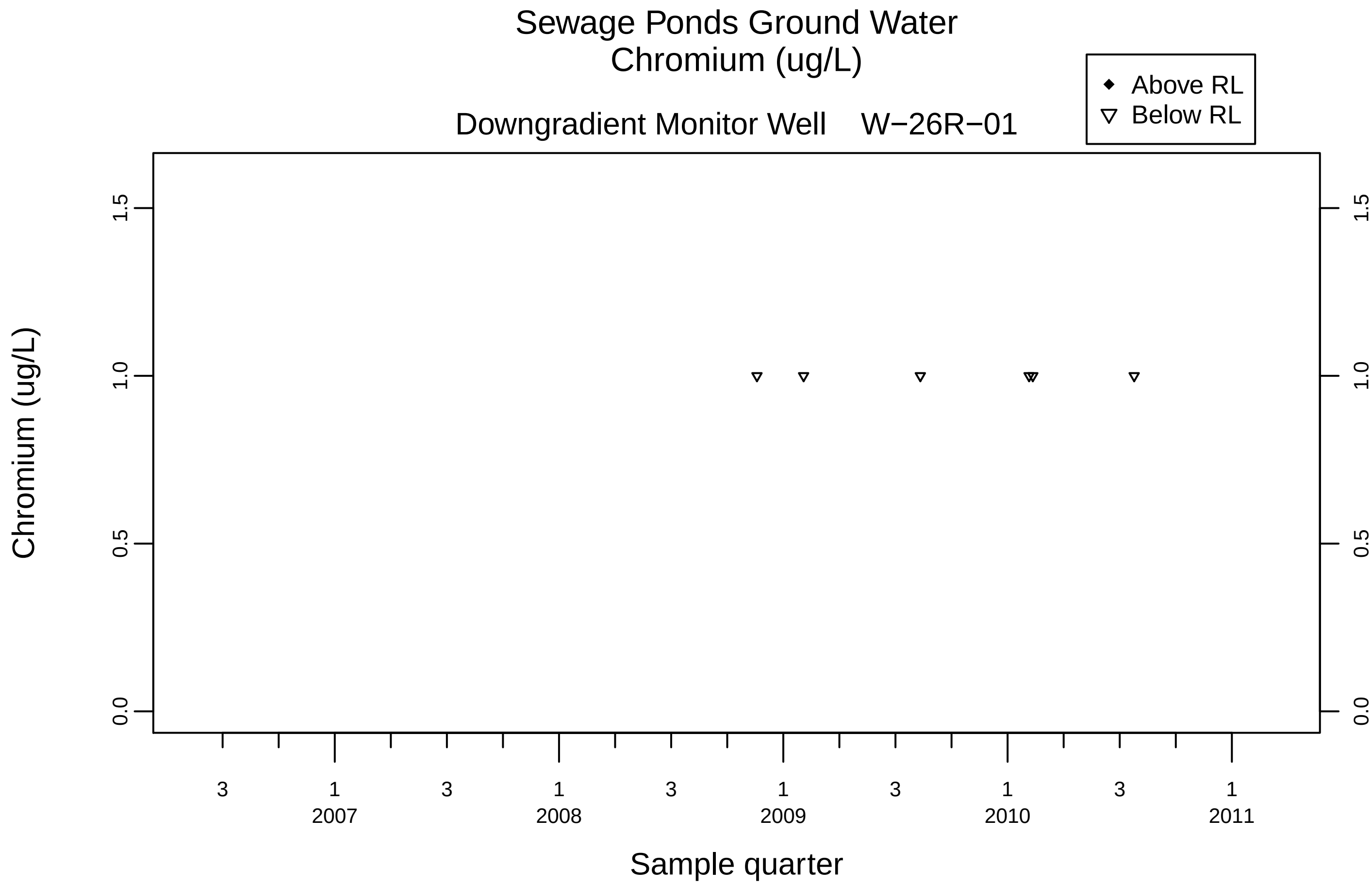


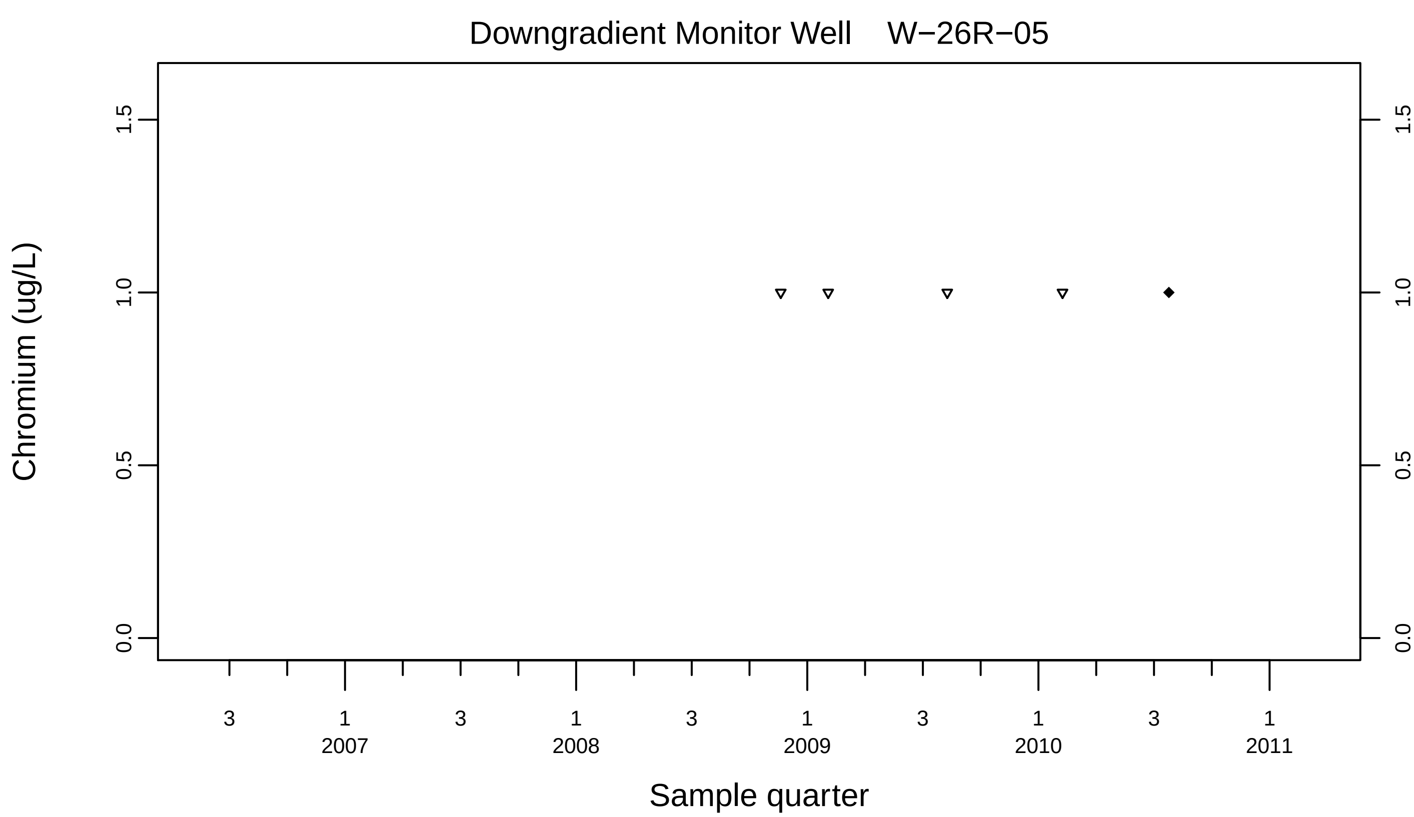


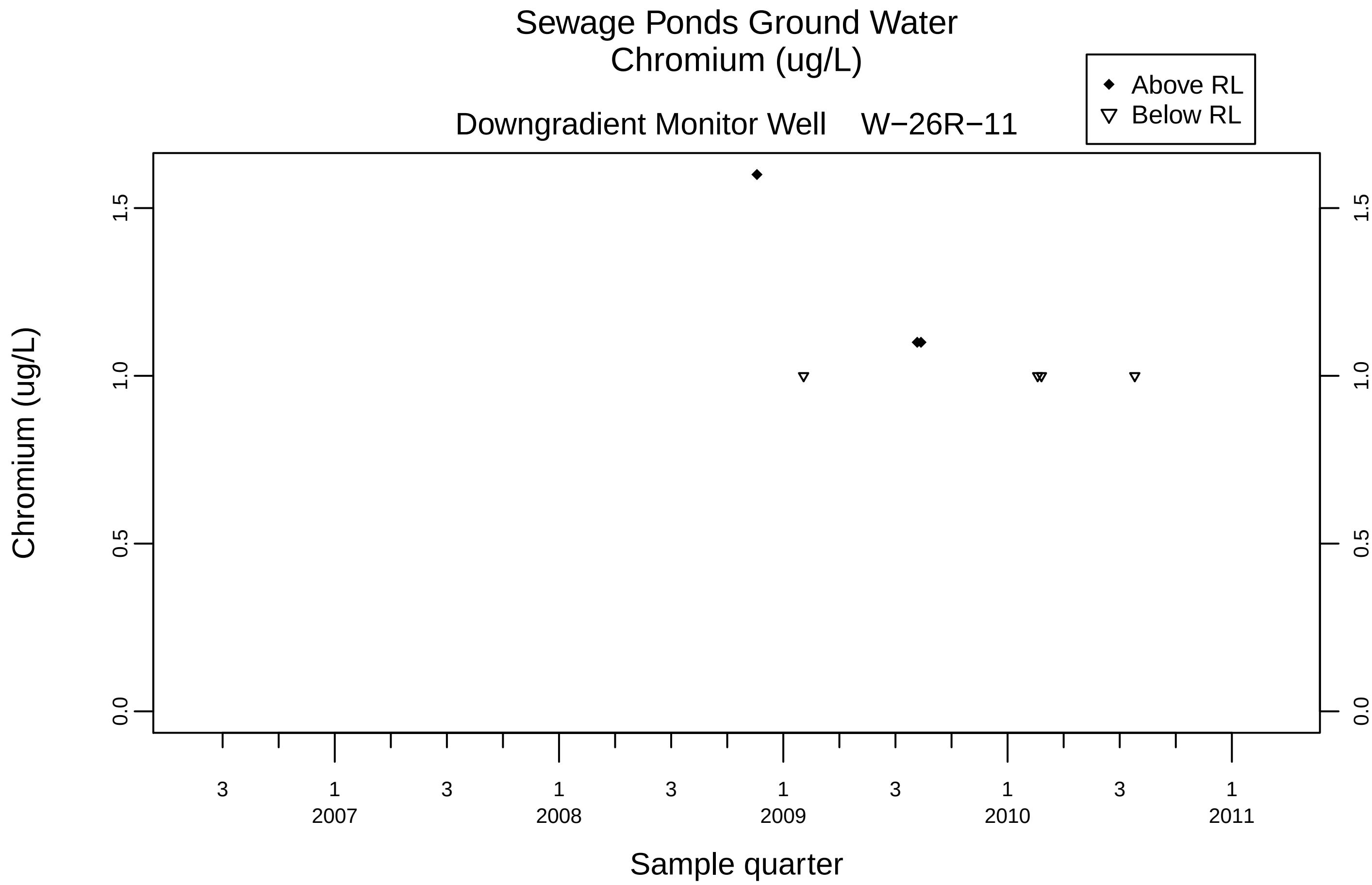
Sewage Ponds Ground Water
Chromium (ug/L)



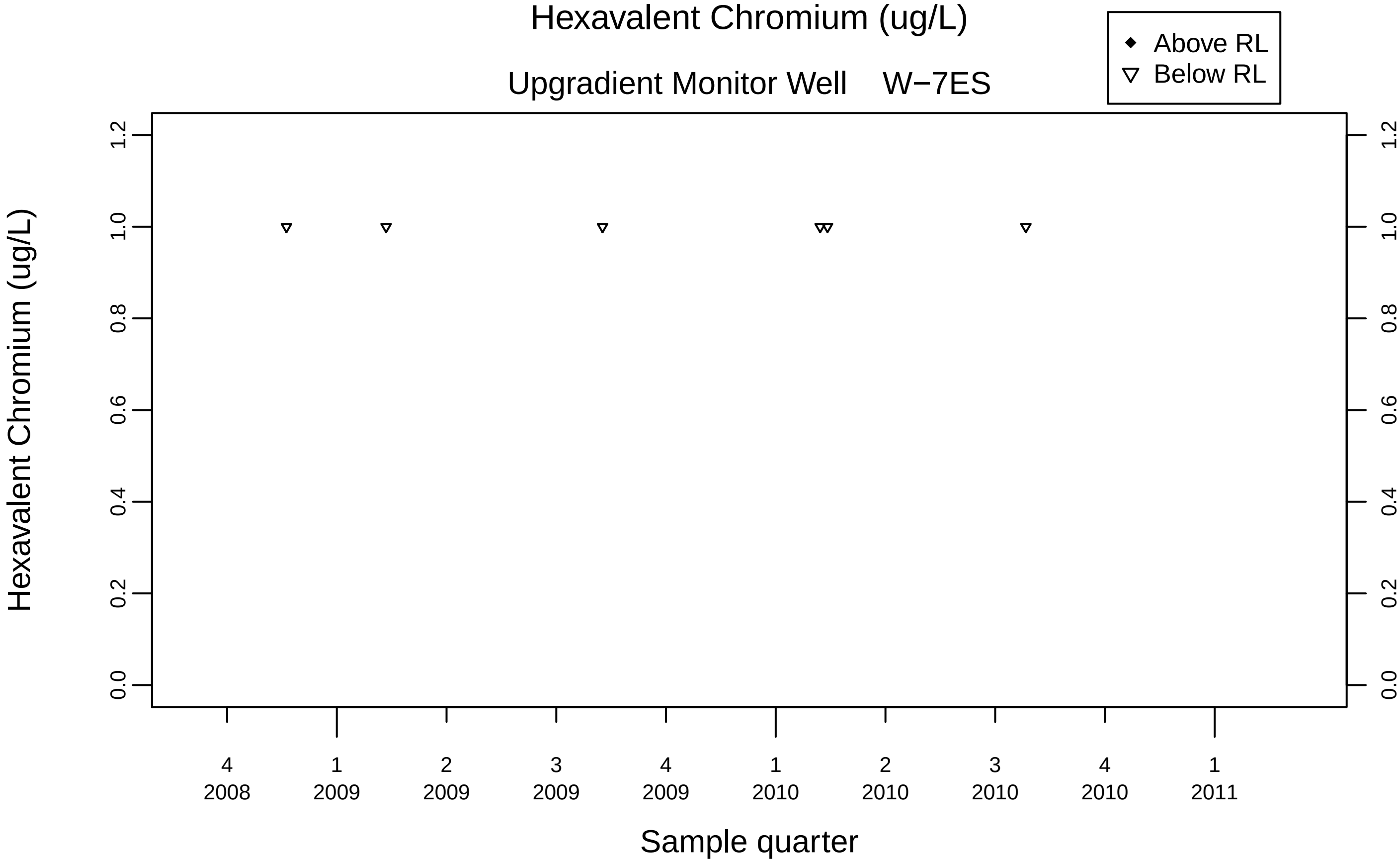


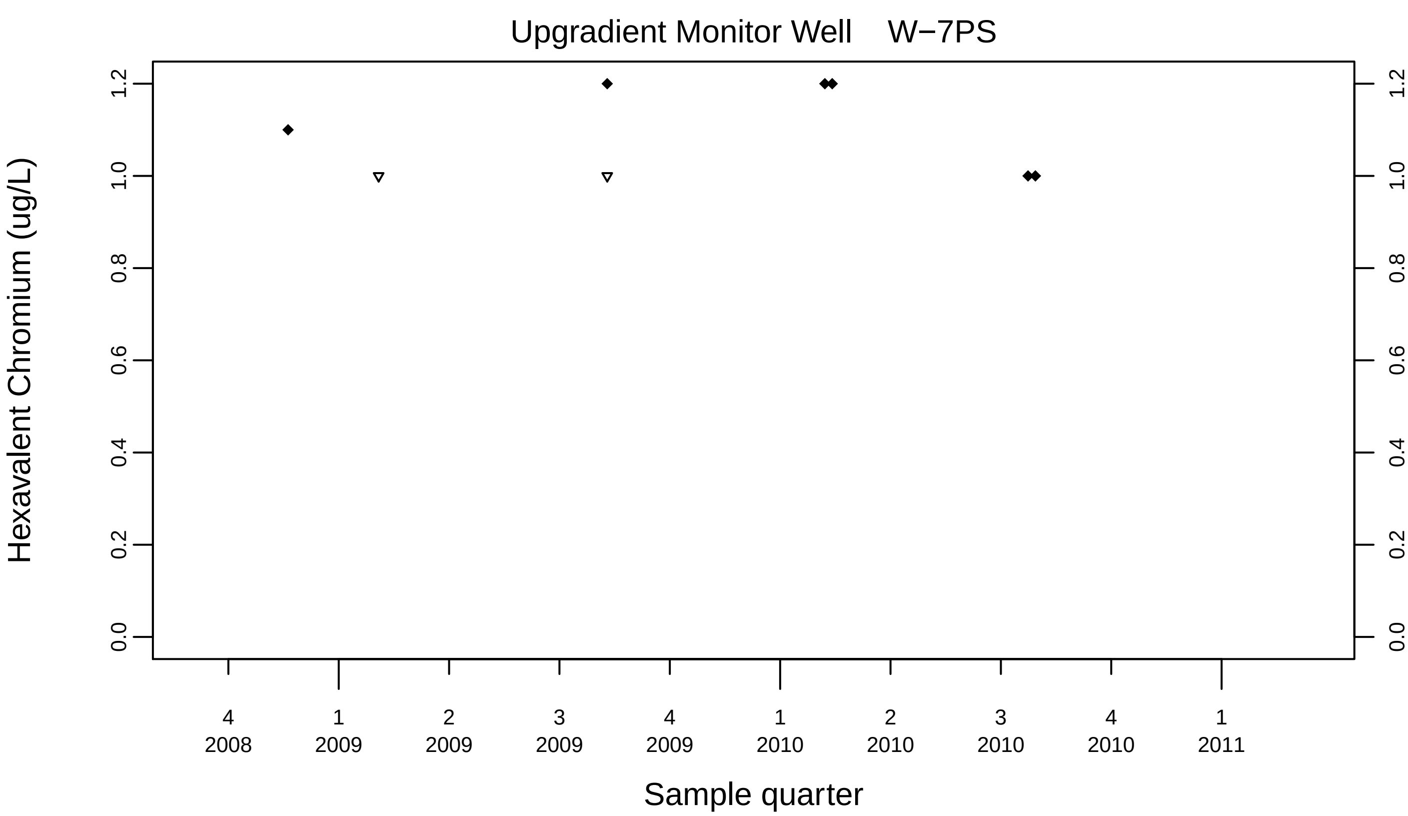

Sewage Ponds Ground Water
Chromium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter


Downgradient Monitor Well W−26R−05
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
Sample quarter

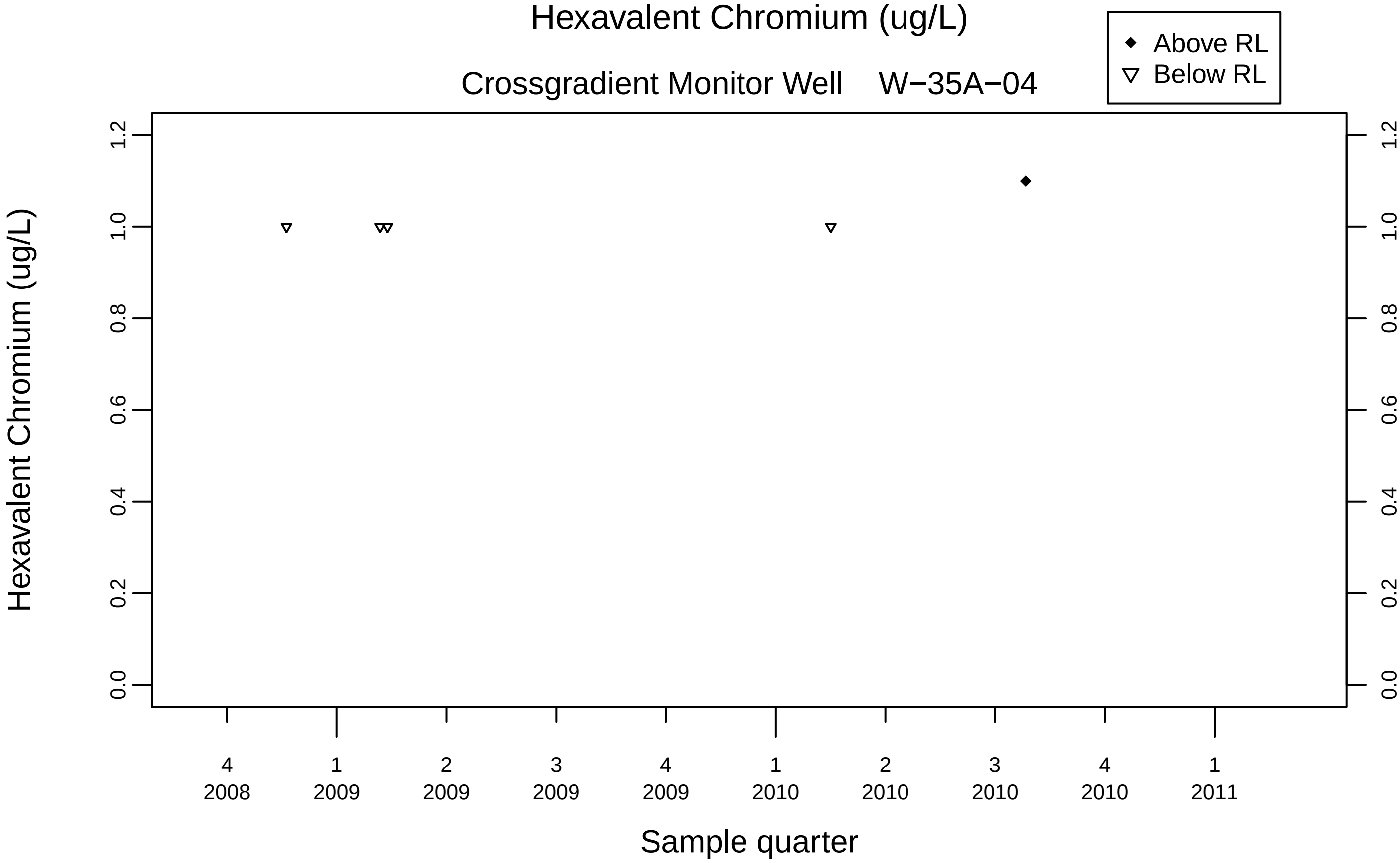

Sewage Ponds Ground Water
Chromium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Chromium (ug/L)
0.0
0.5
1.0
1.5
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

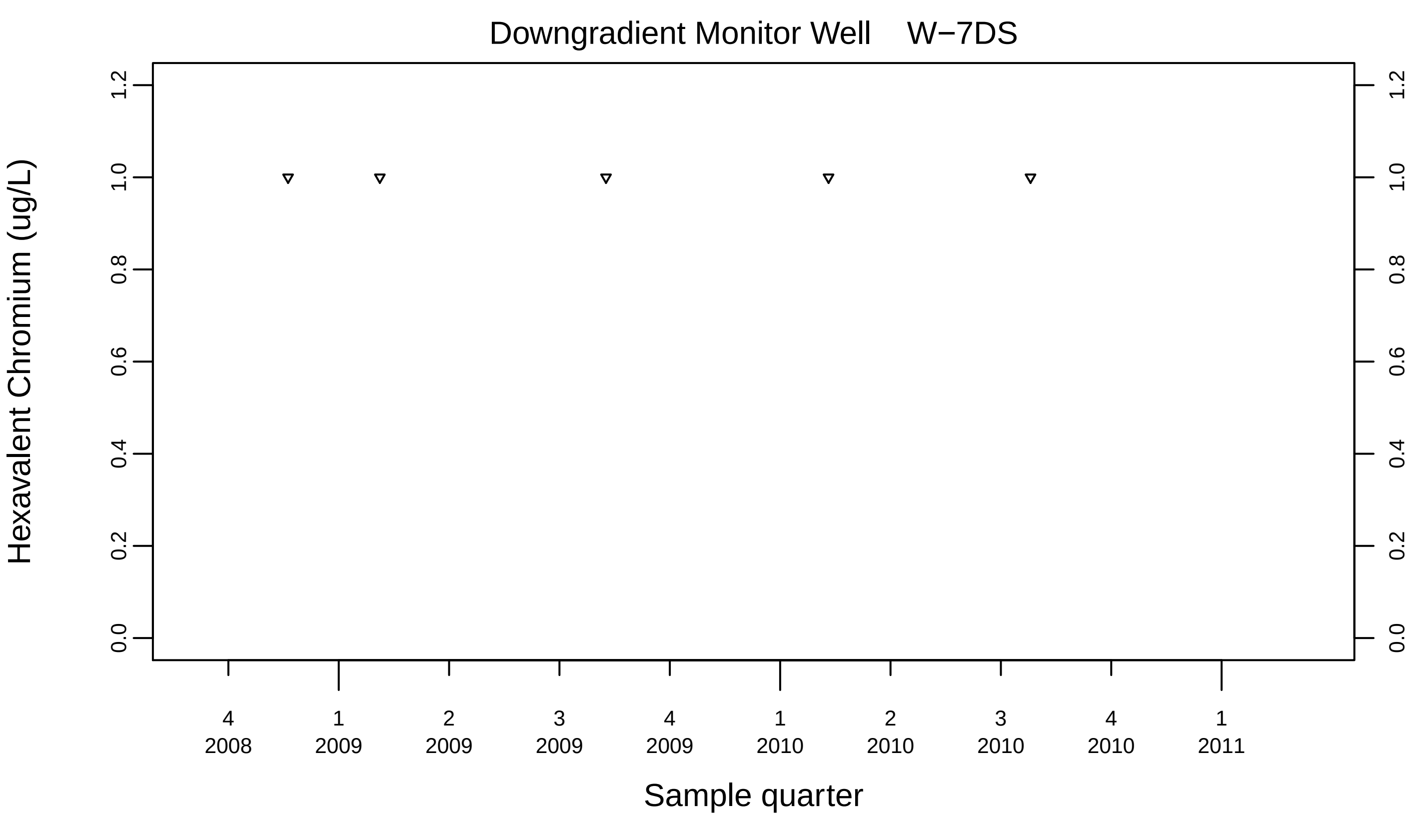
Sewage Ponds Ground Water
Hexavalent Chromium (ug/L)



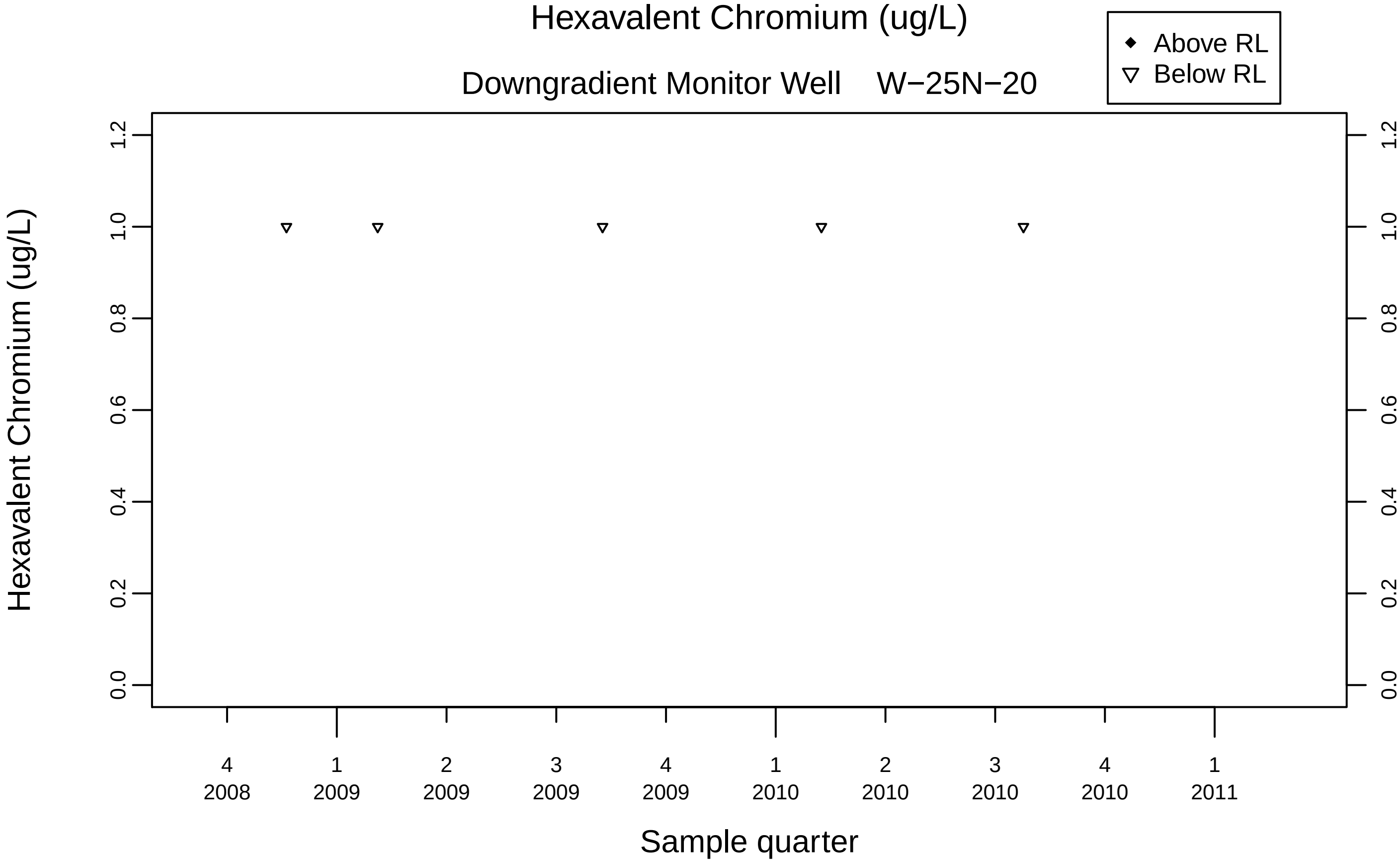


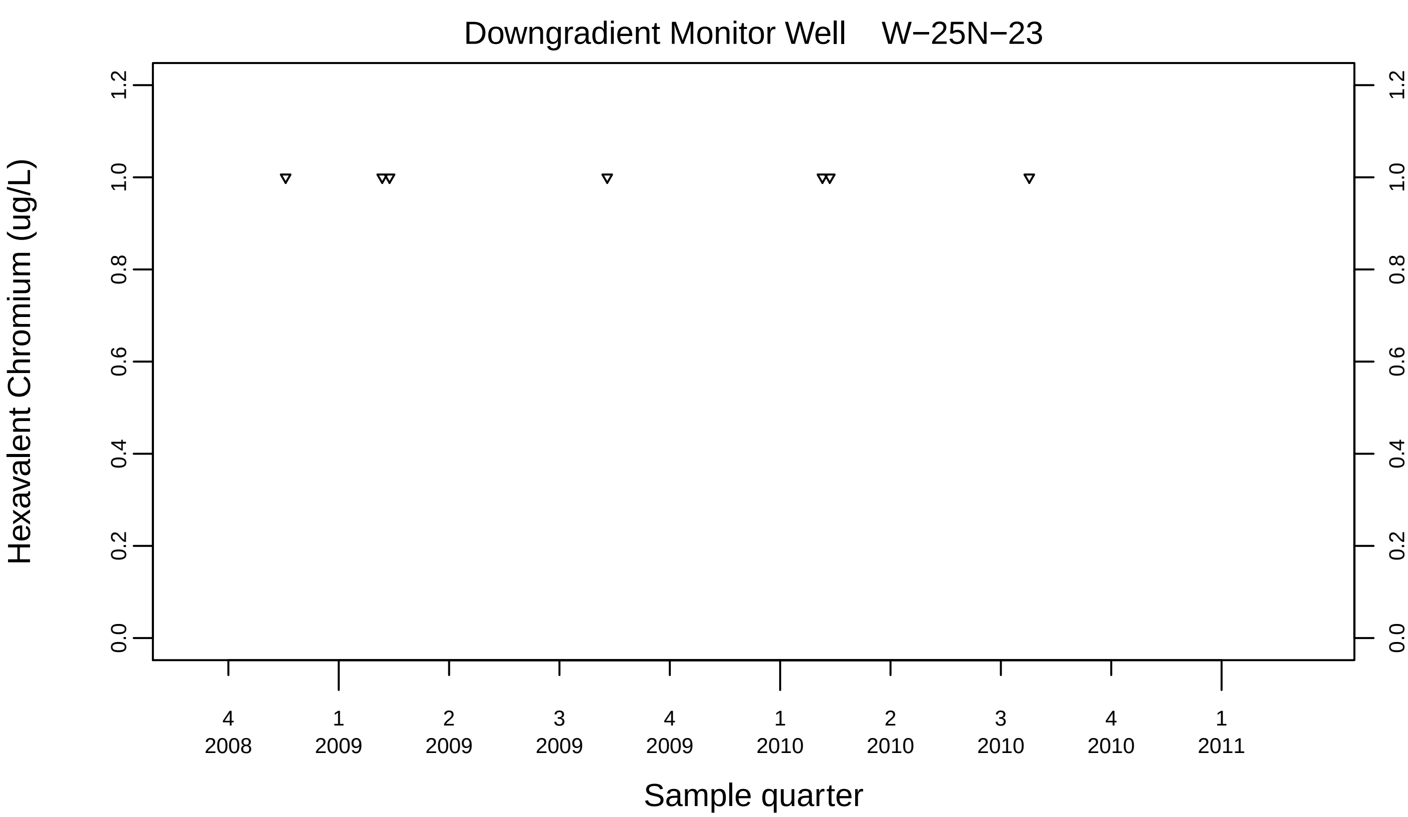
Sewage Ponds Ground Water
Hexavalent Chromium (ug/L)



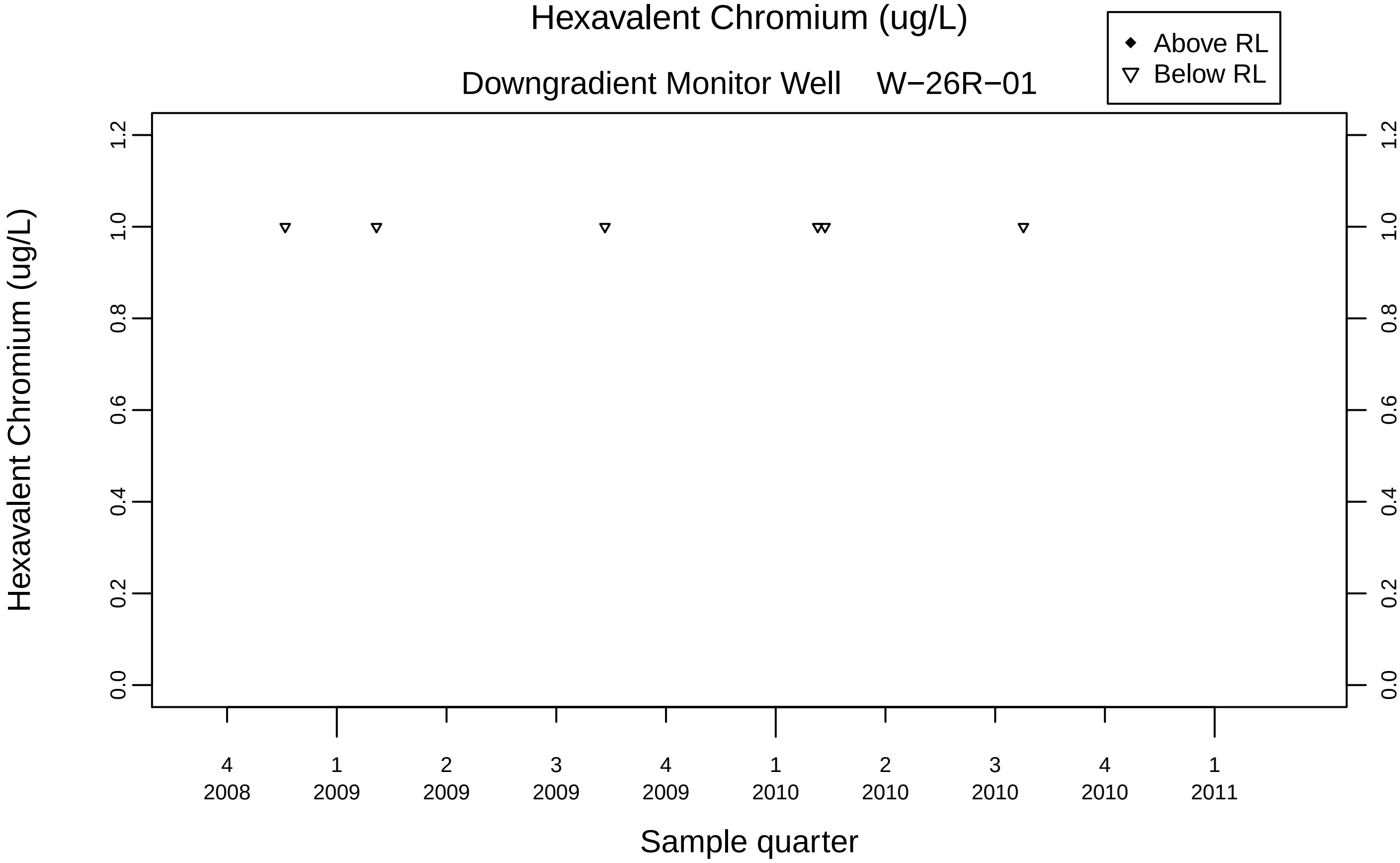


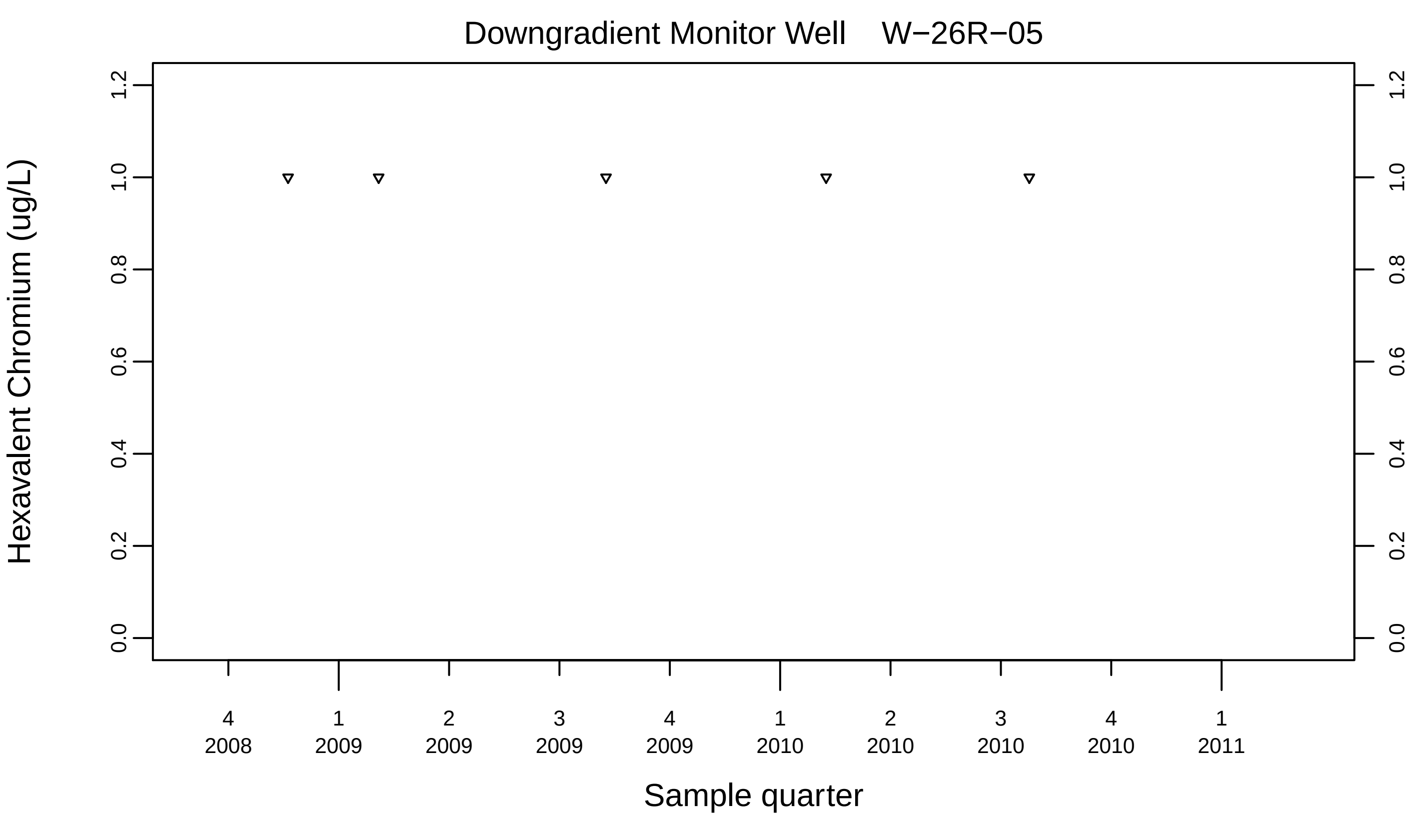
Sewage Ponds Ground Water
Hexavalent Chromium (ug/L)

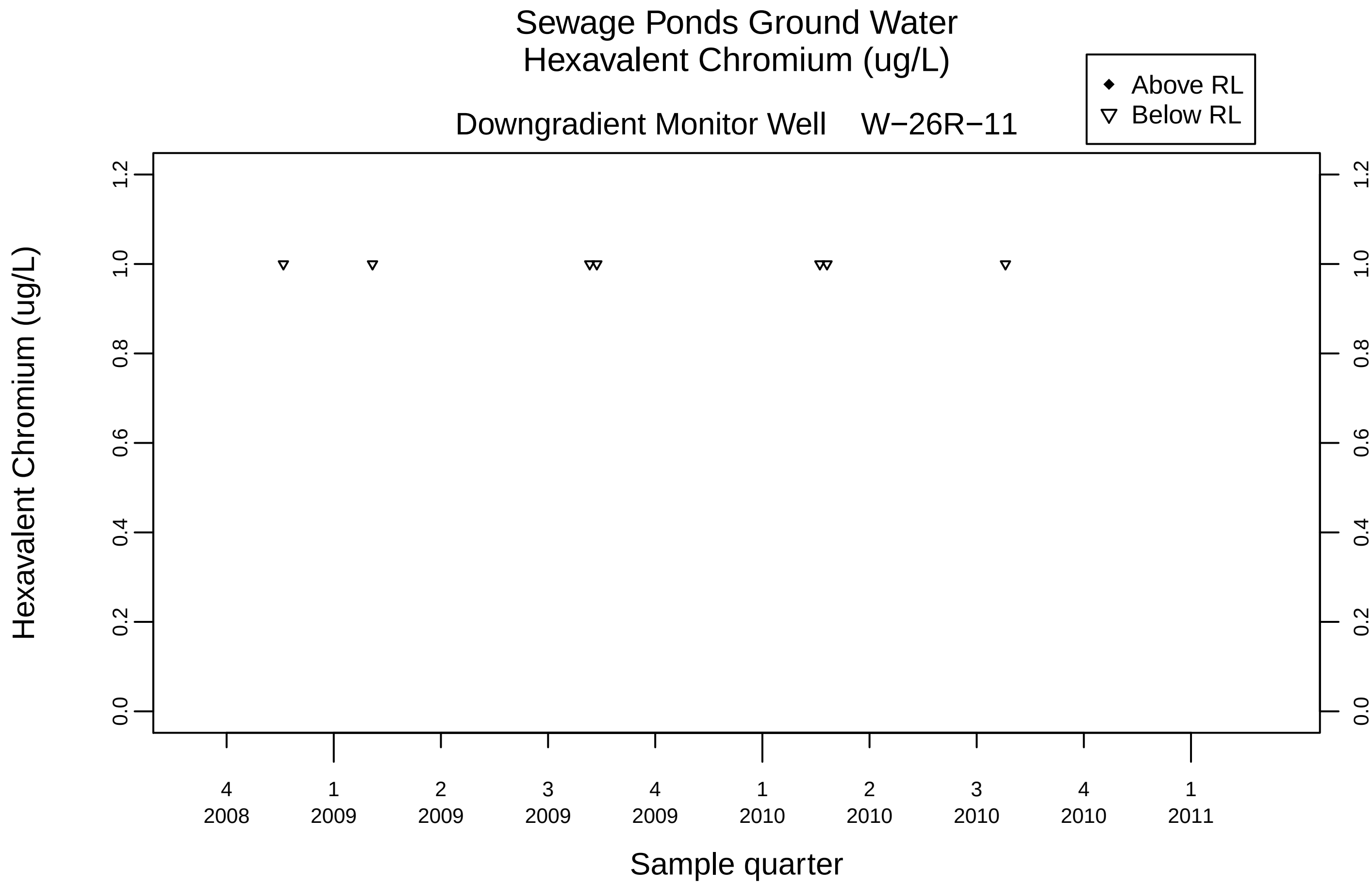




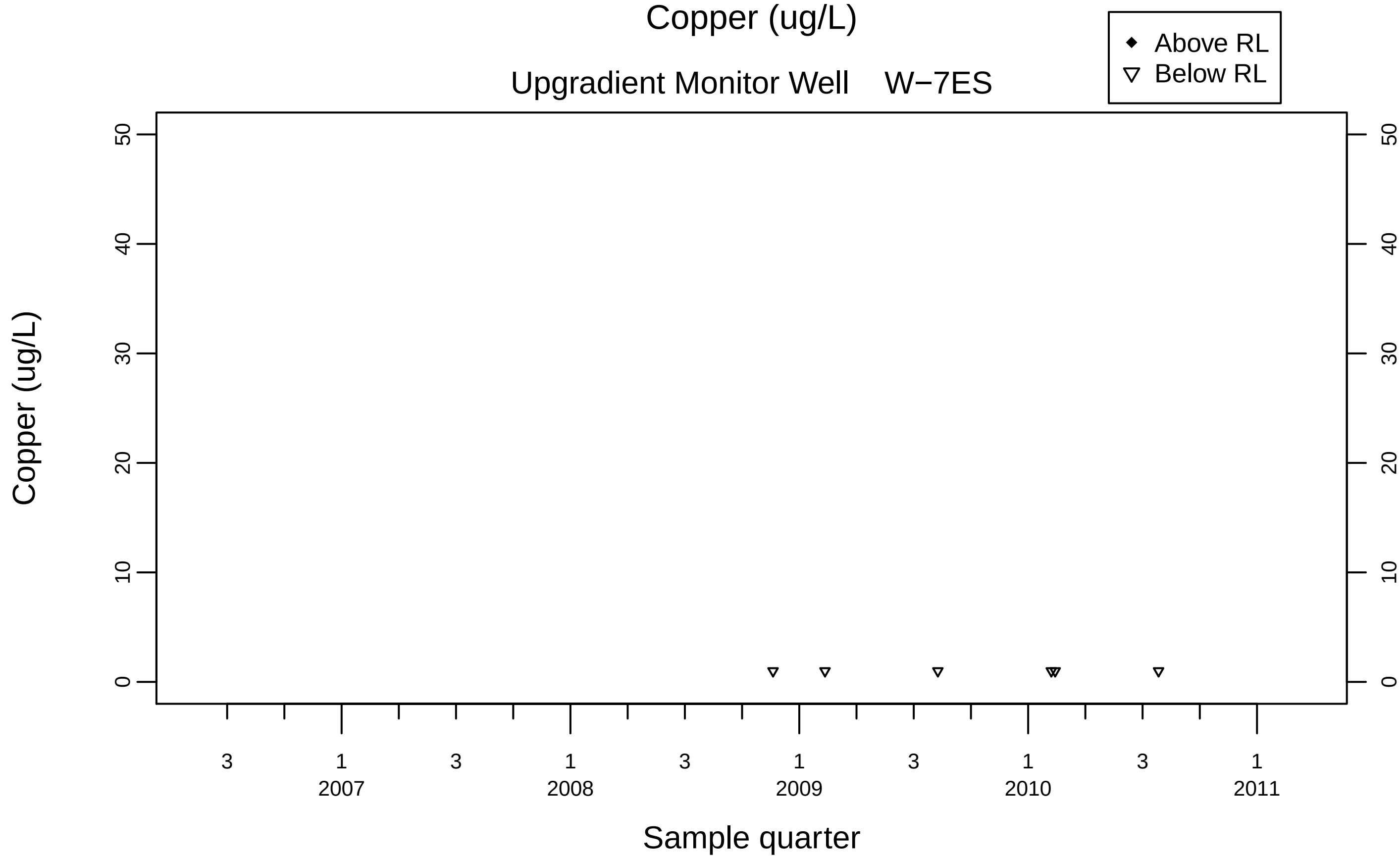
Sewage Ponds Ground Water
Hexavalent Chromium (ug/L)

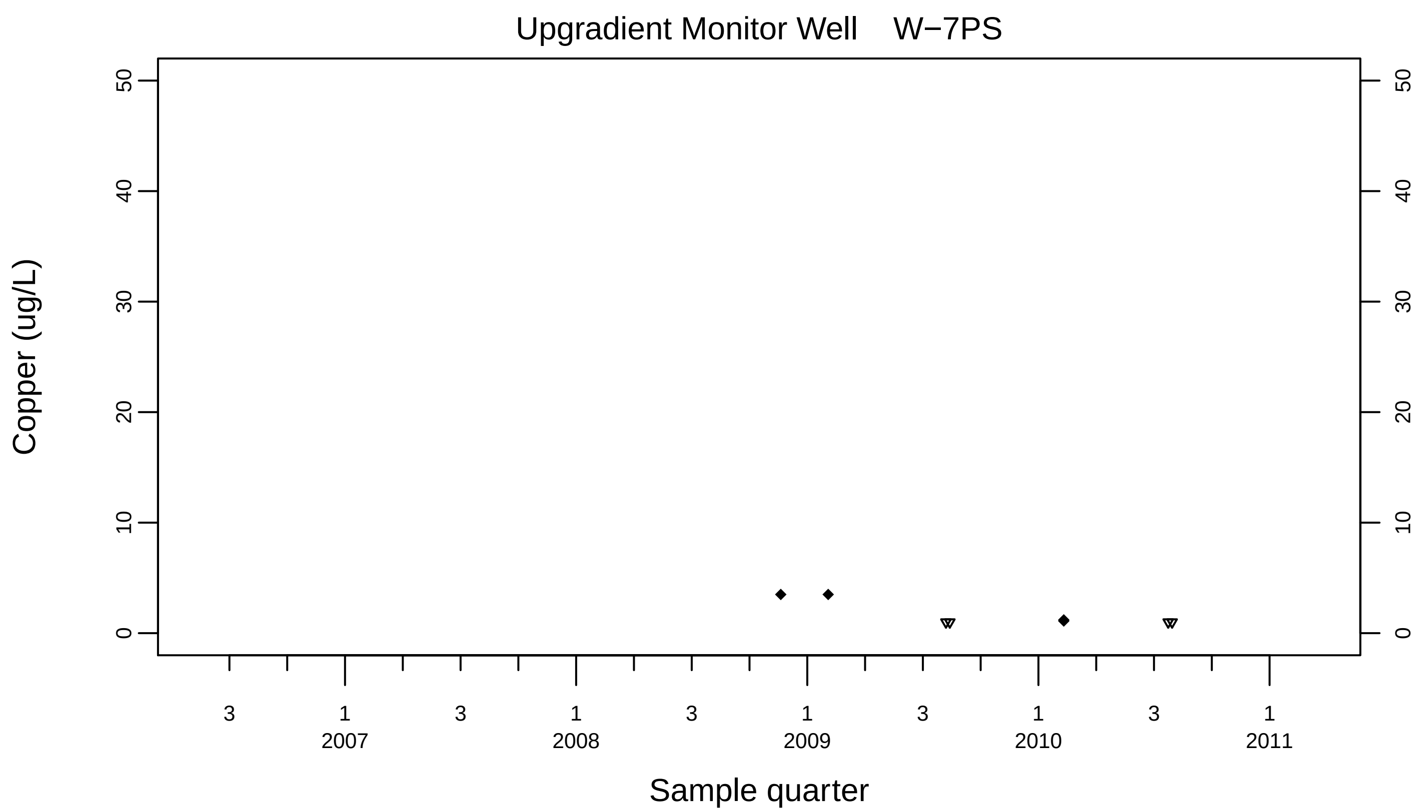




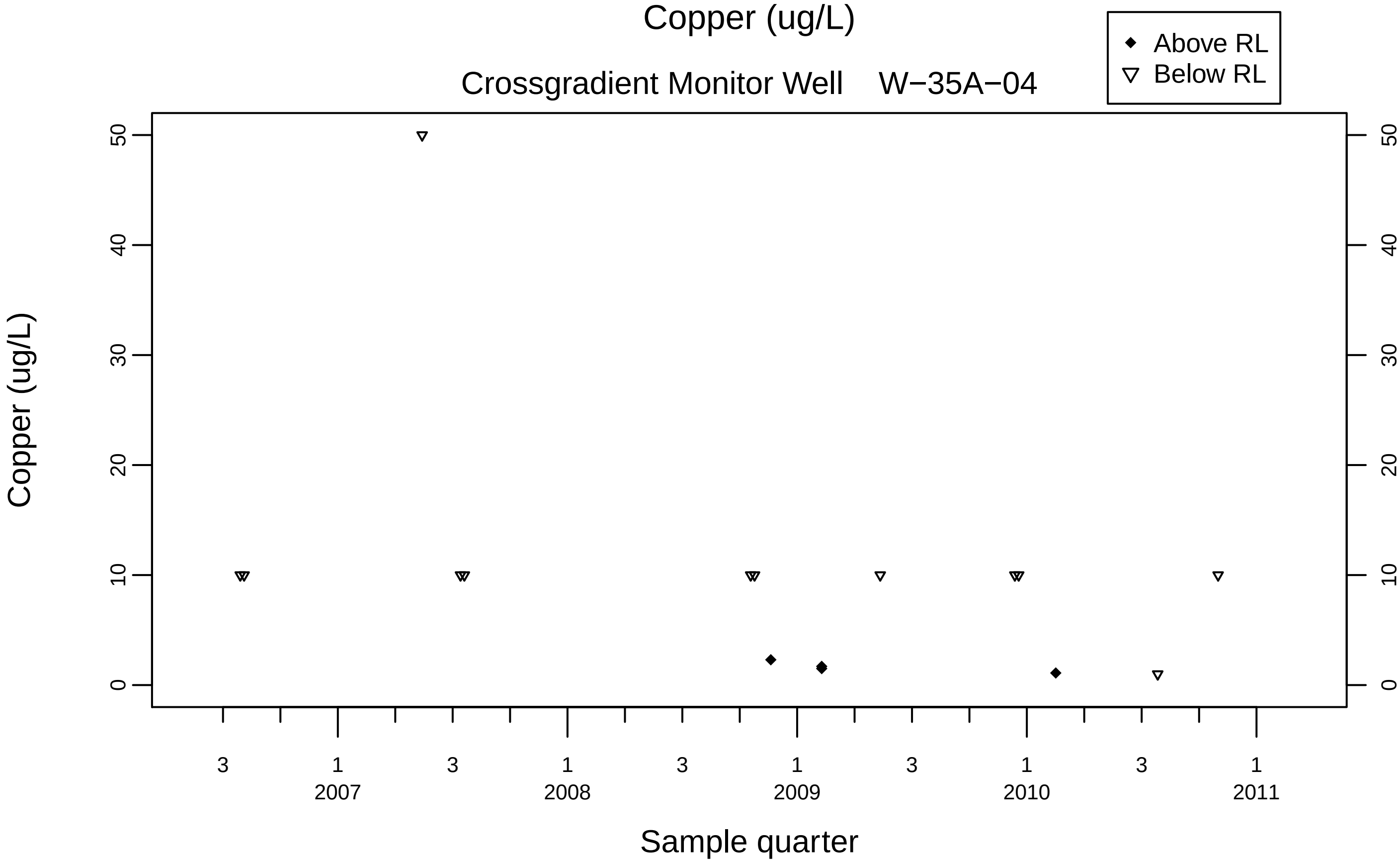

Sewage Ponds Ground Water
Hexavalent Chromium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Hexavalent Chromium (ug/L)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

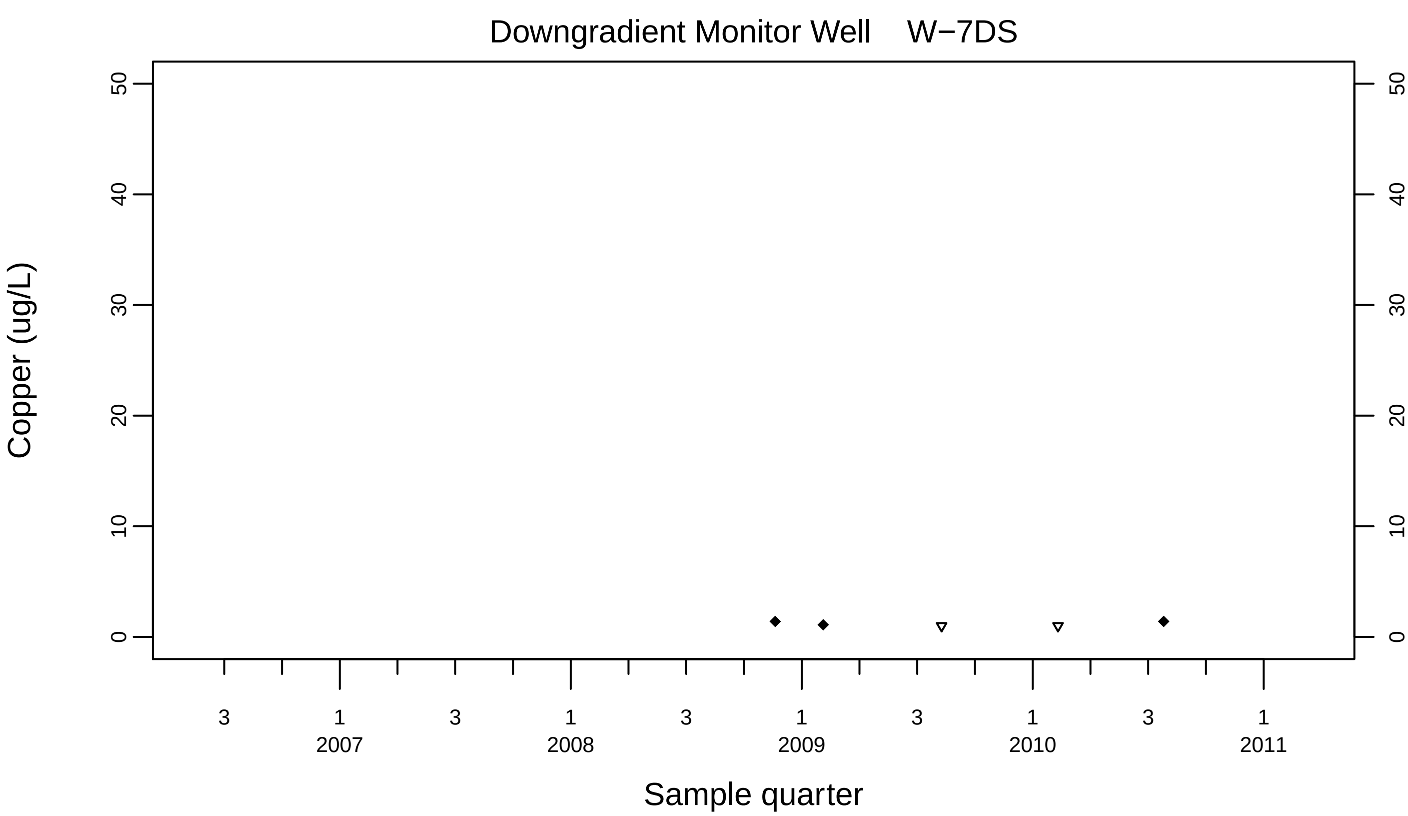
Sewage Ponds Ground Water
Copper (ug/L)



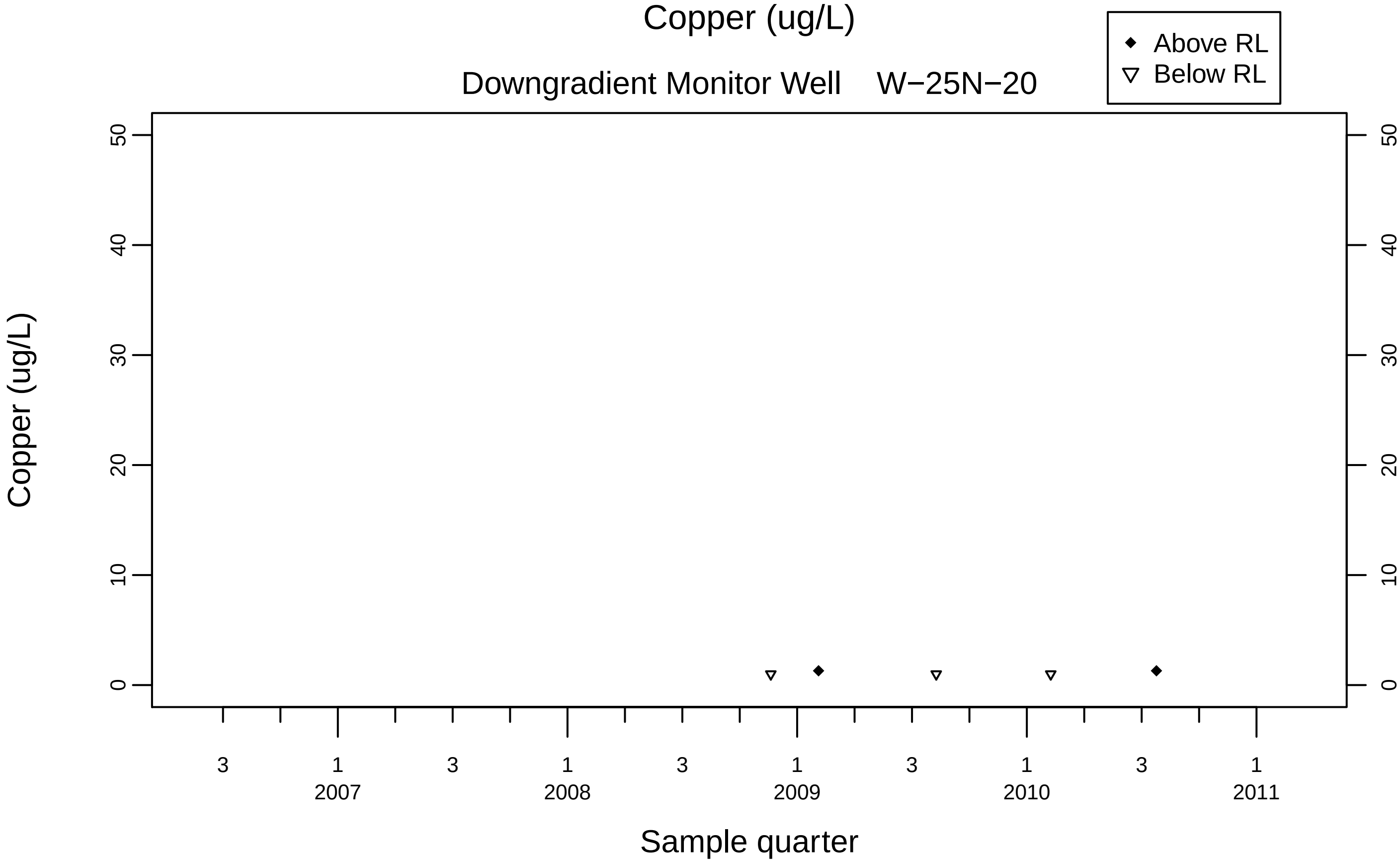


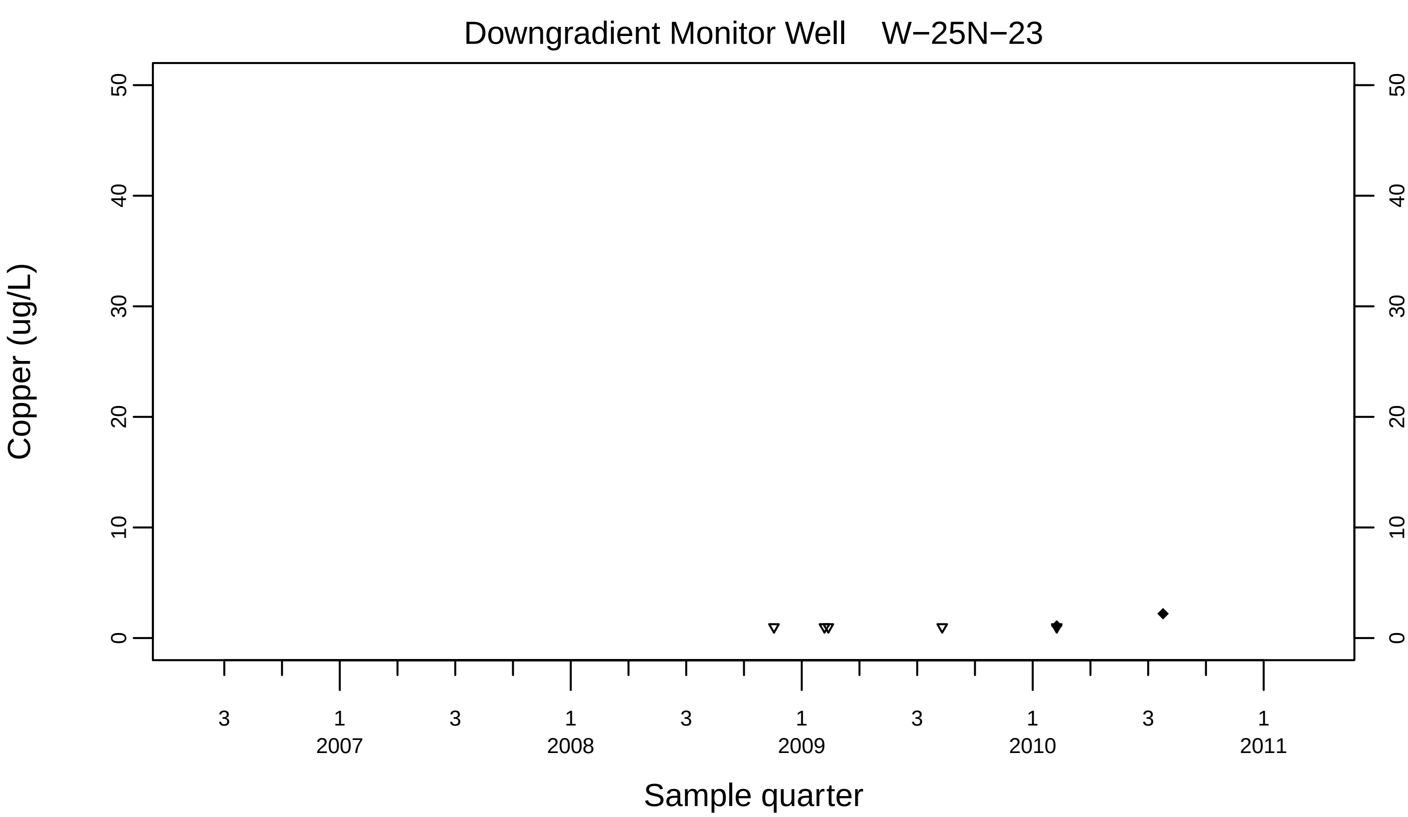
Sewage Ponds Ground Water
Copper (ug/L)



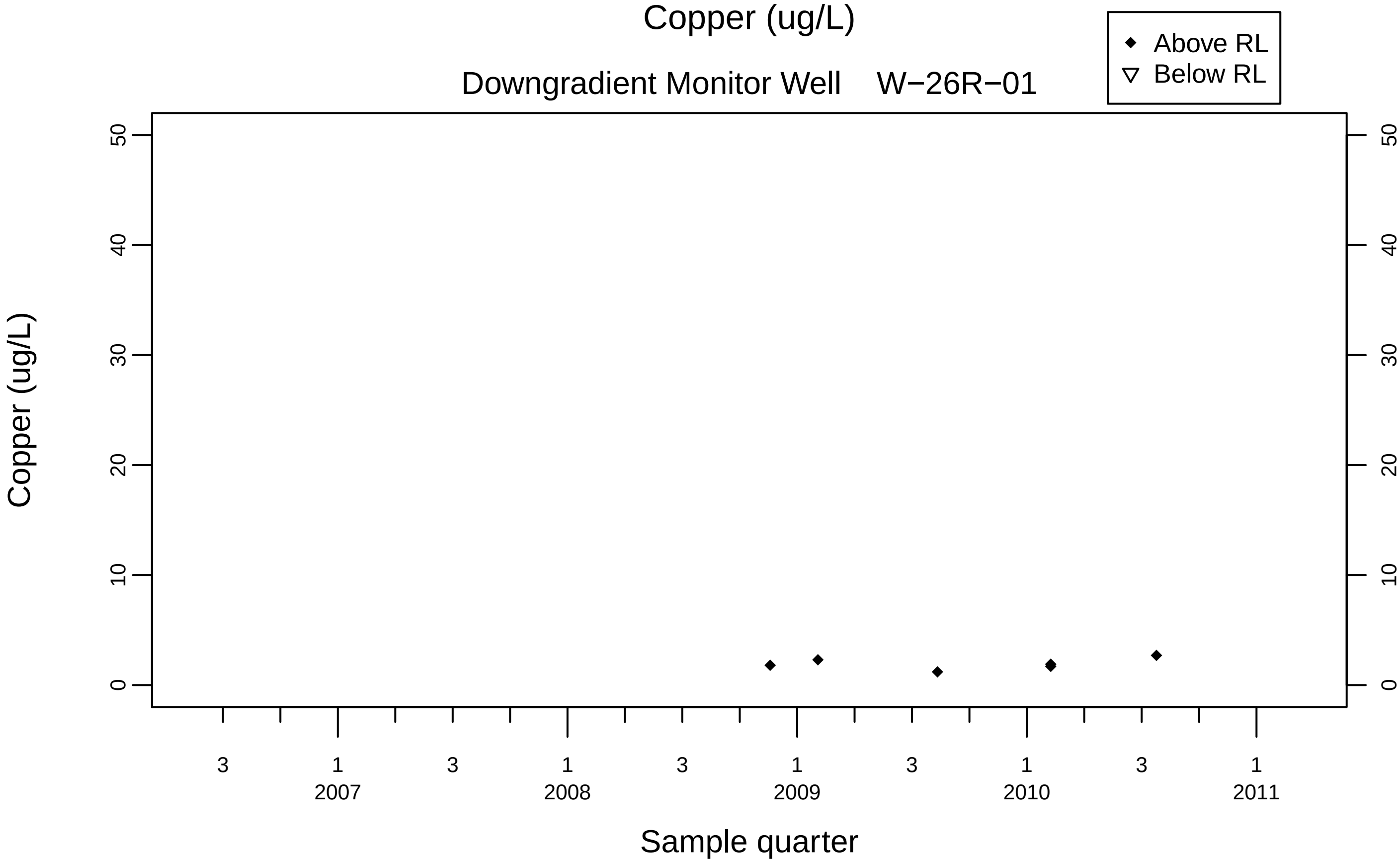


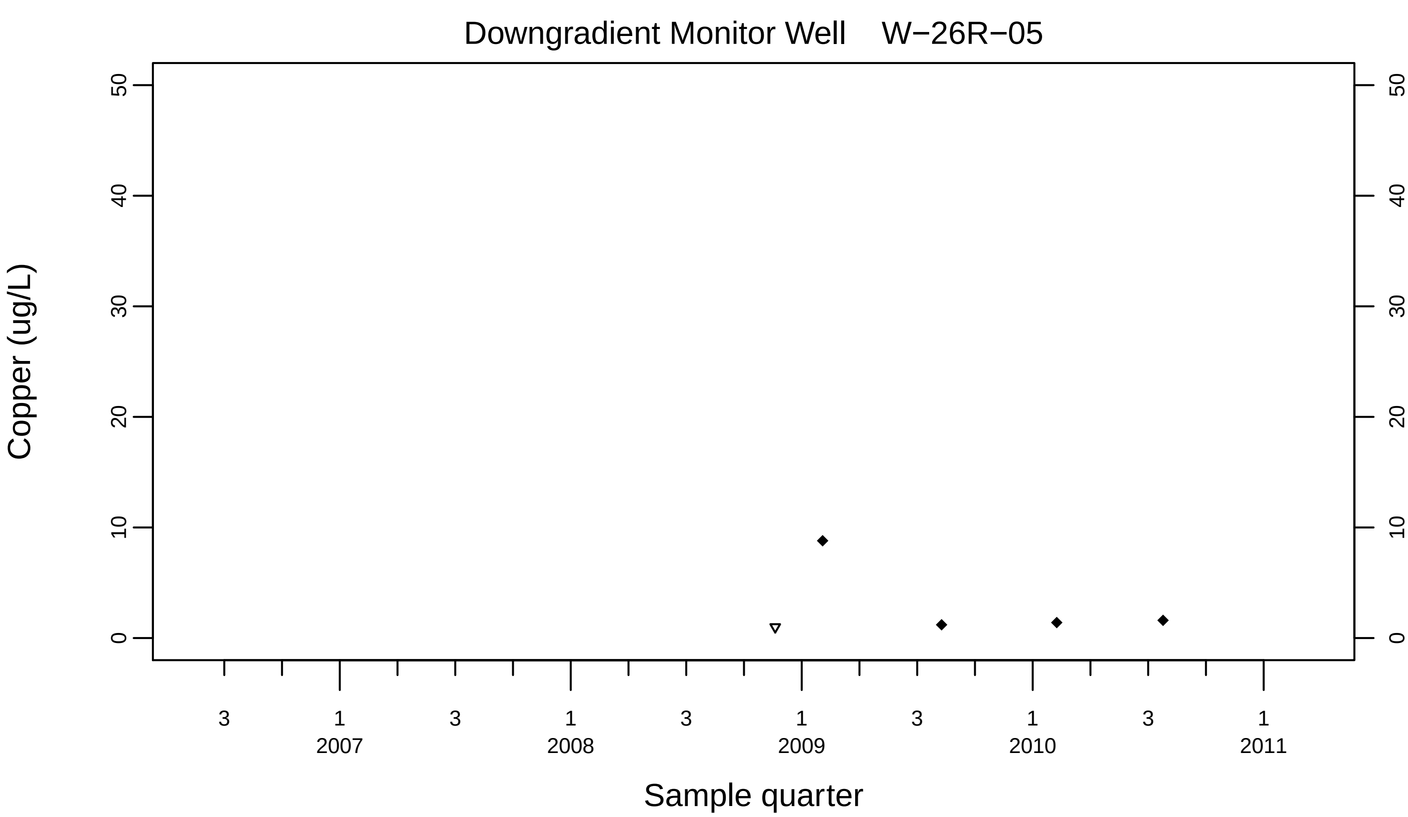
Sewage Ponds Ground Water
Copper (ug/L)

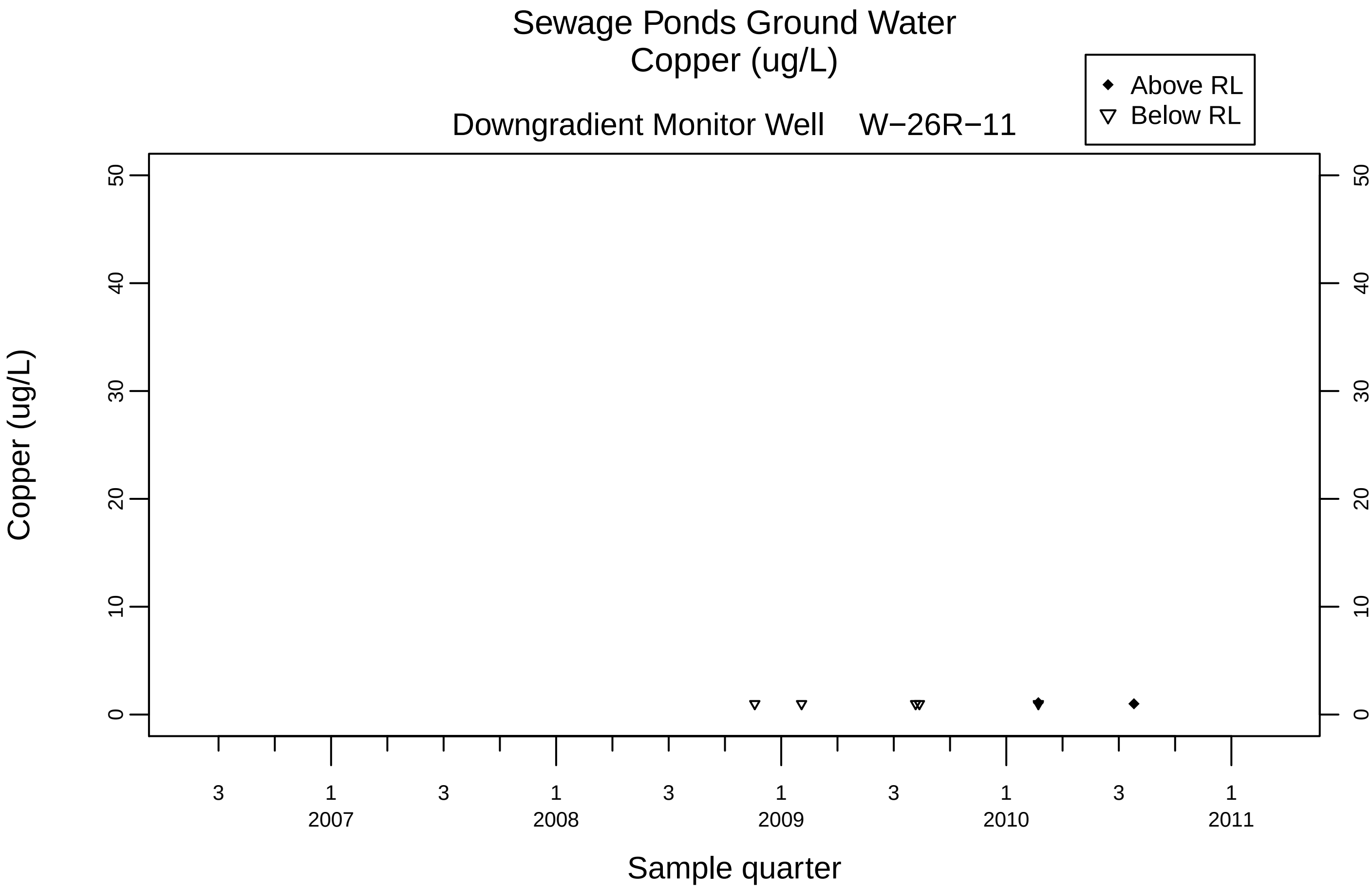


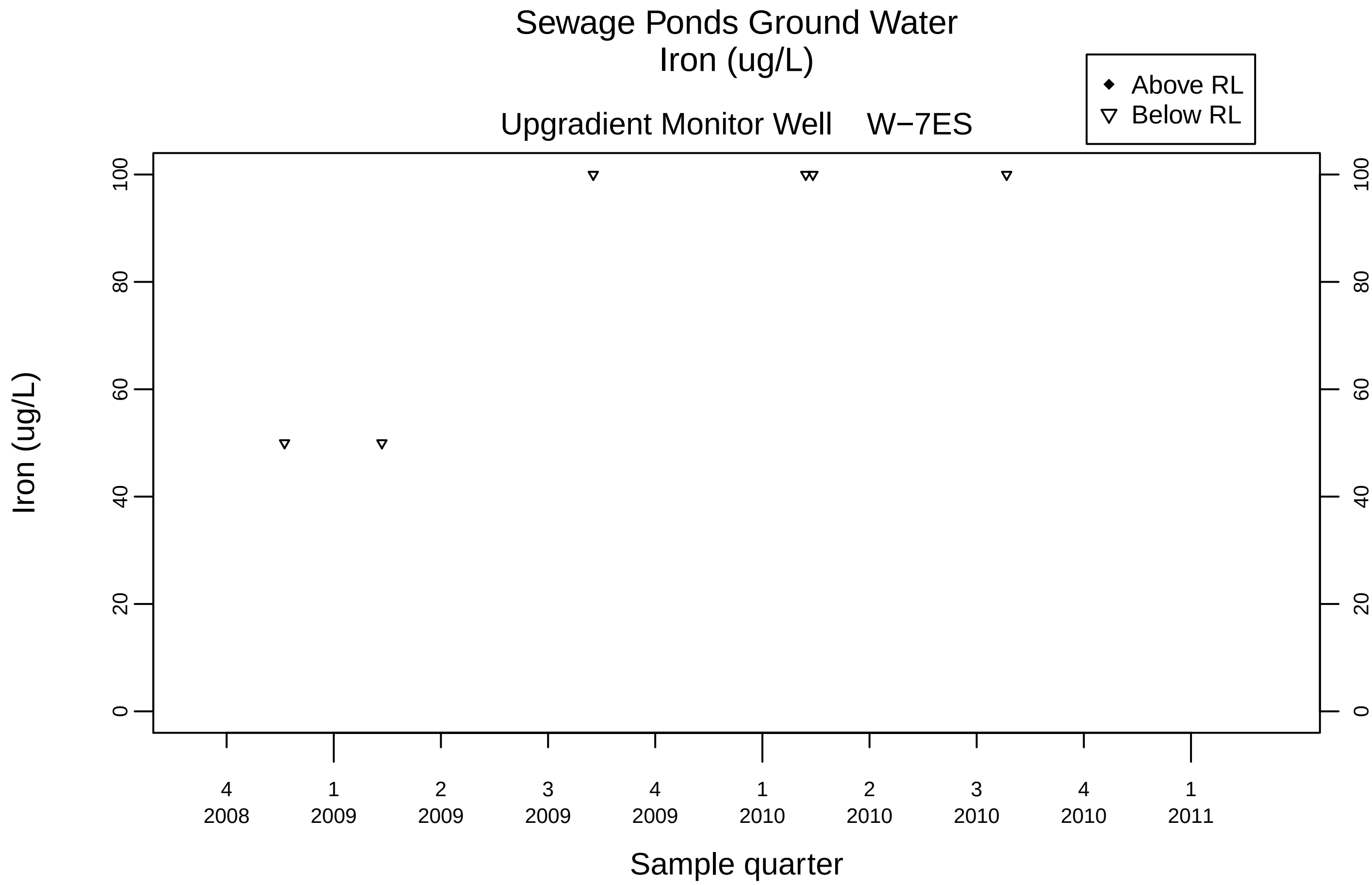


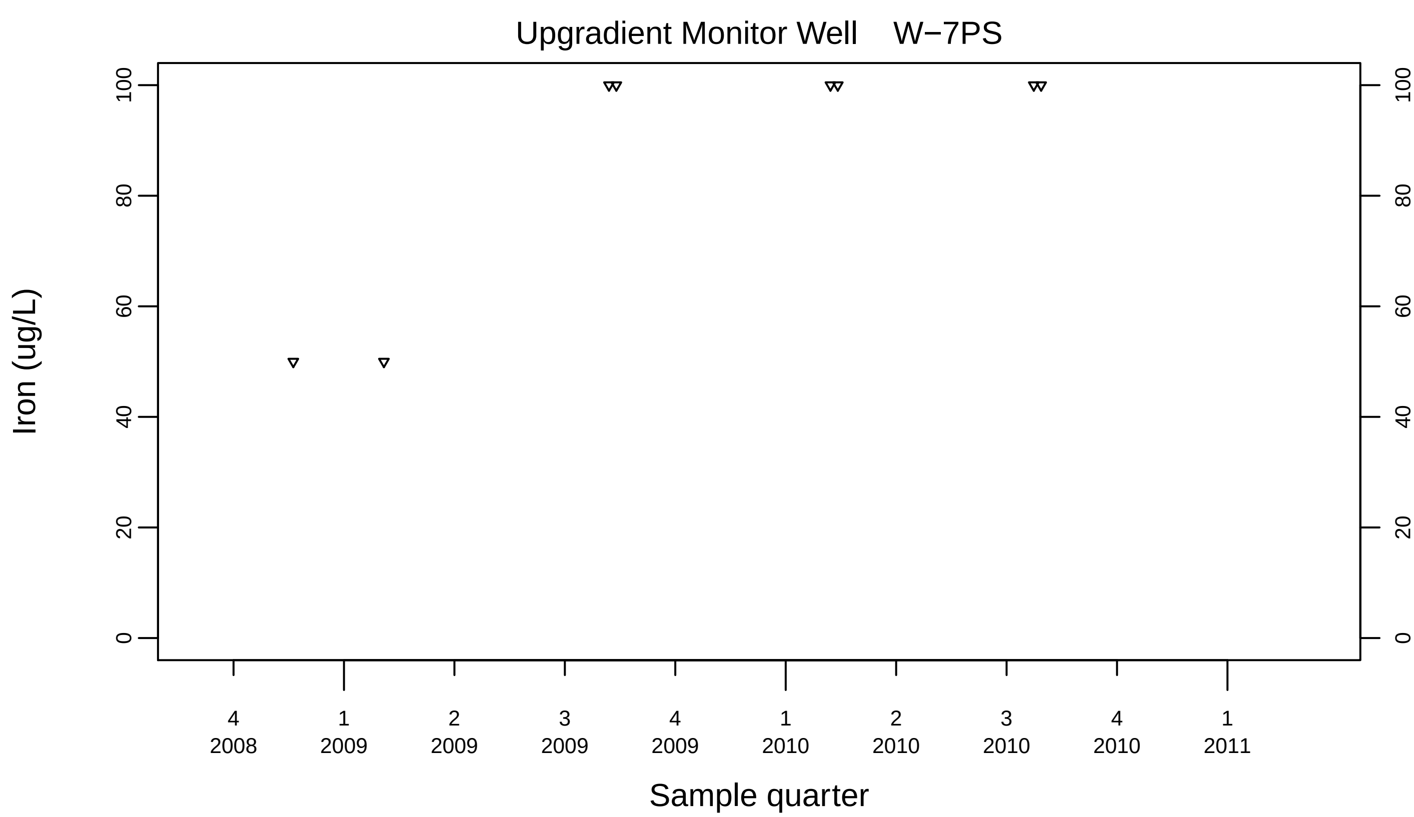
Sewage Ponds Ground Water
Copper (ug/L)

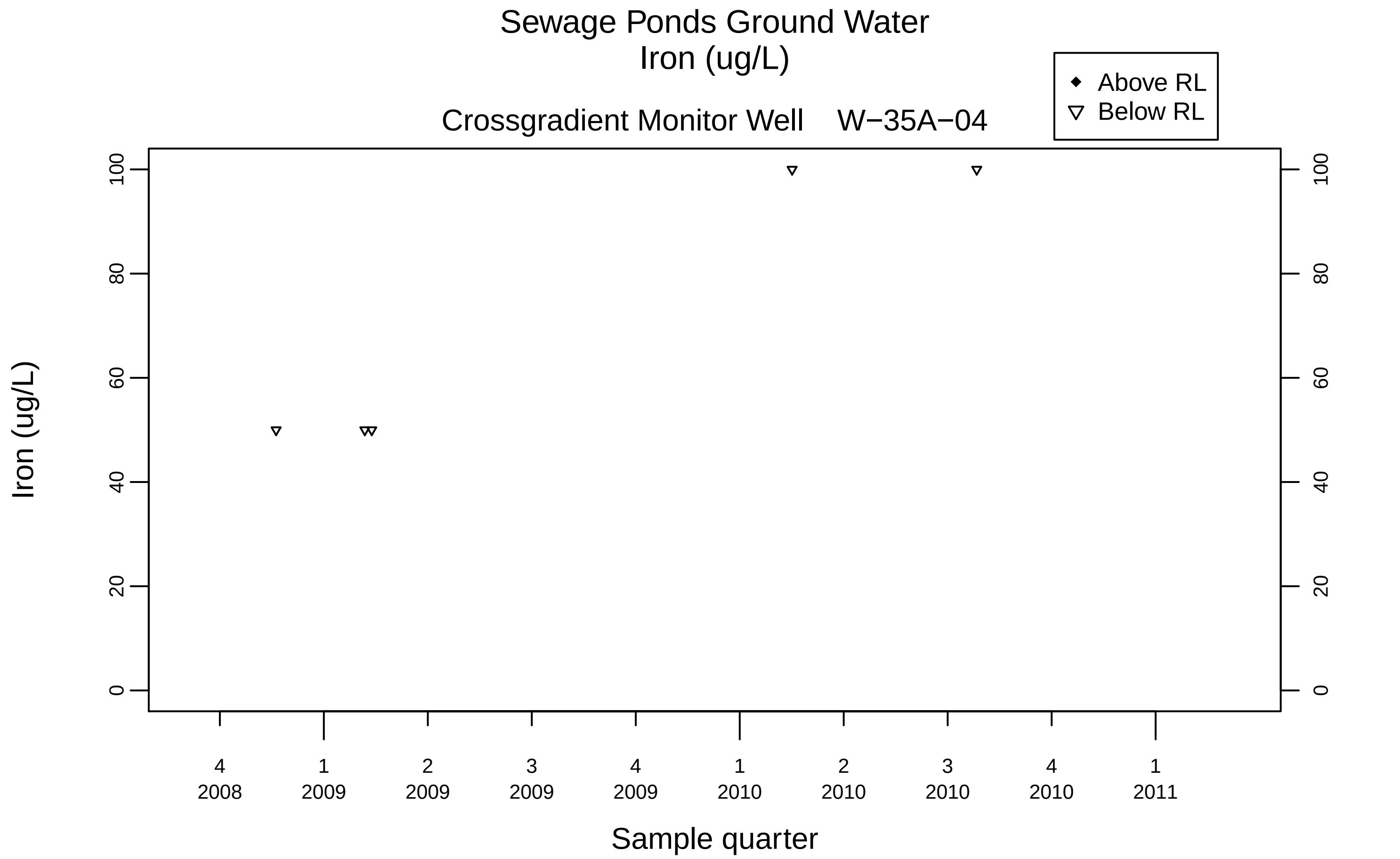


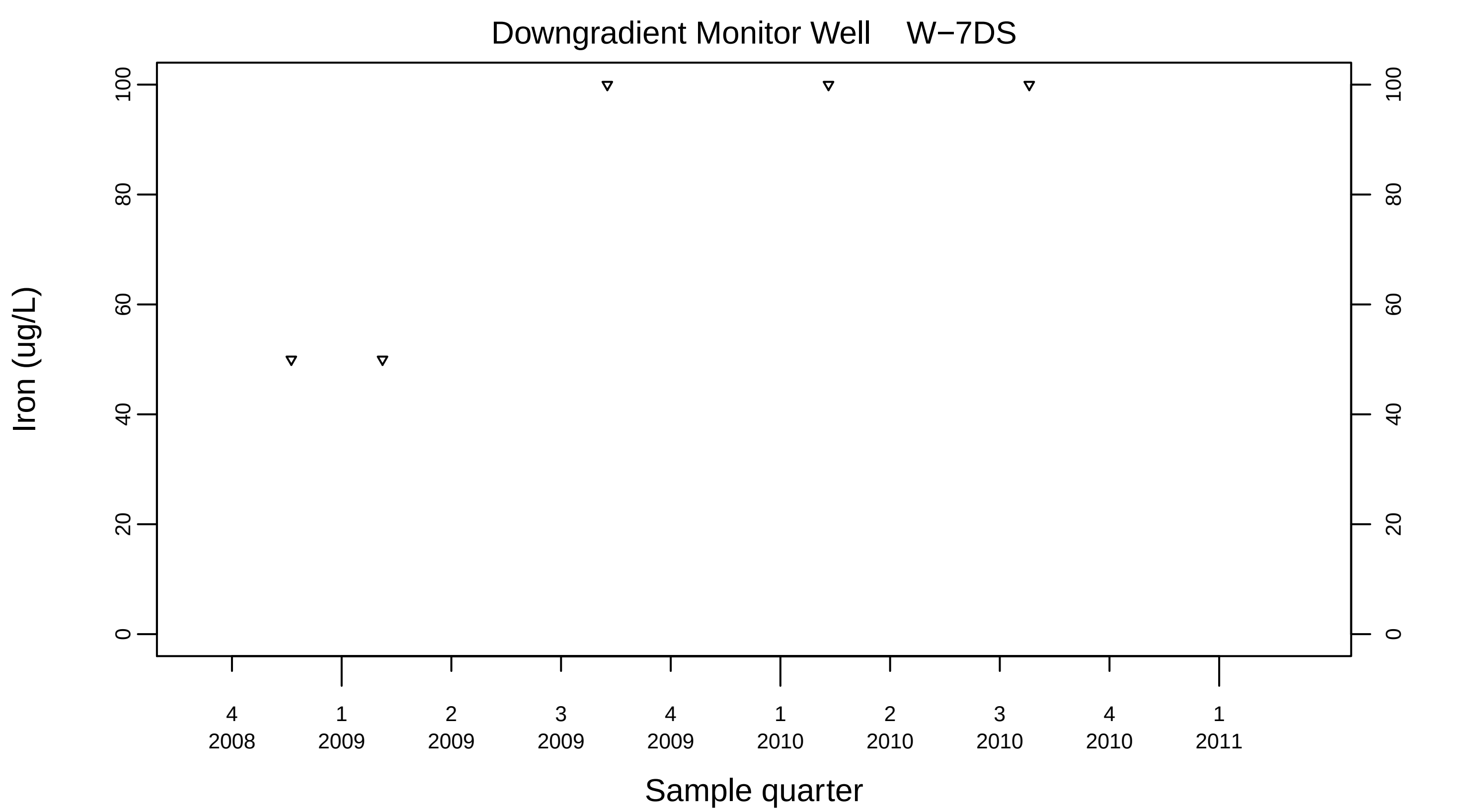


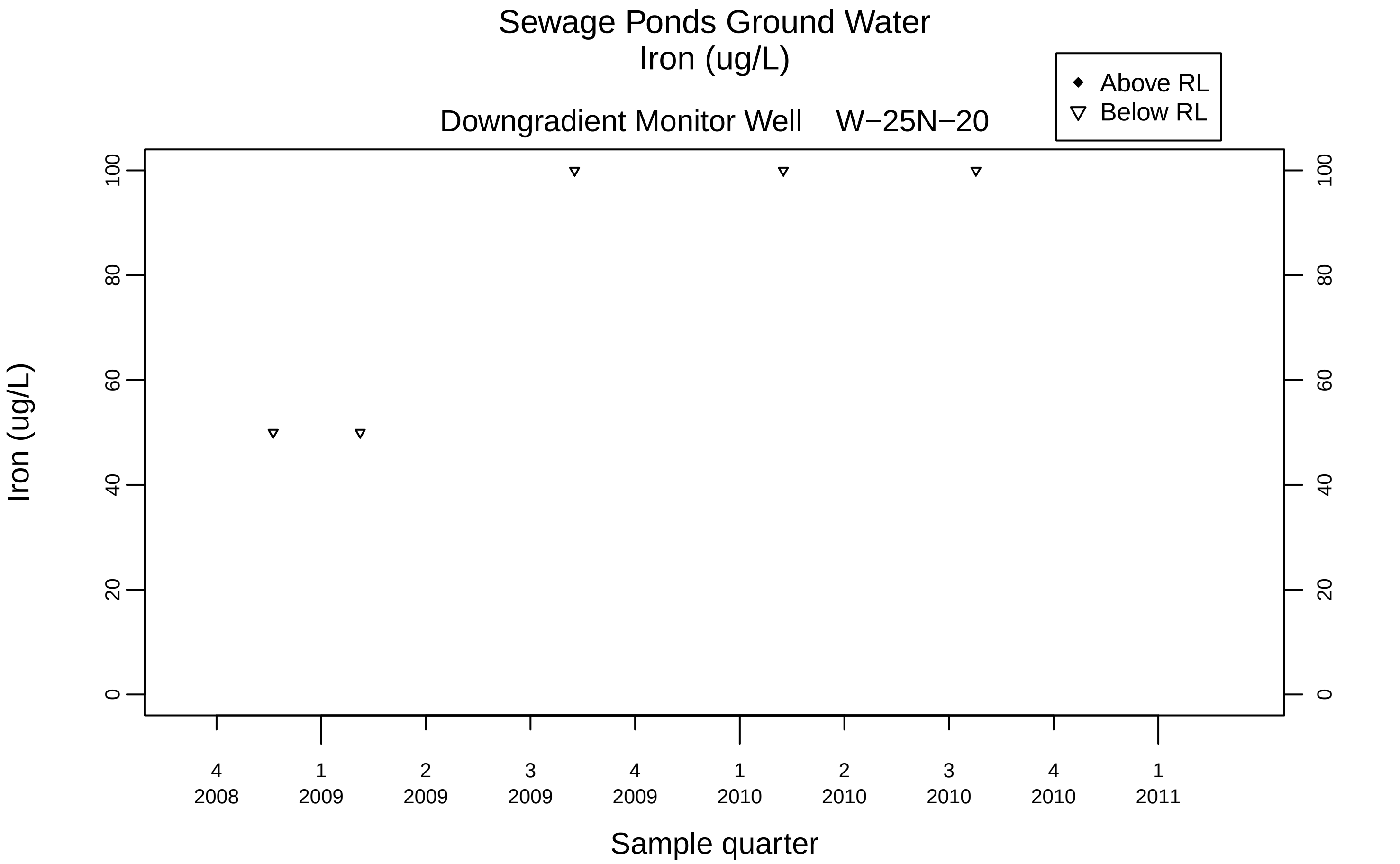

Sewage Ponds Ground Water
Copper (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Copper (ug/L)
0
10
20
30
40
50
3
1
2007
2008
2009
2010
2011
Sample quarter

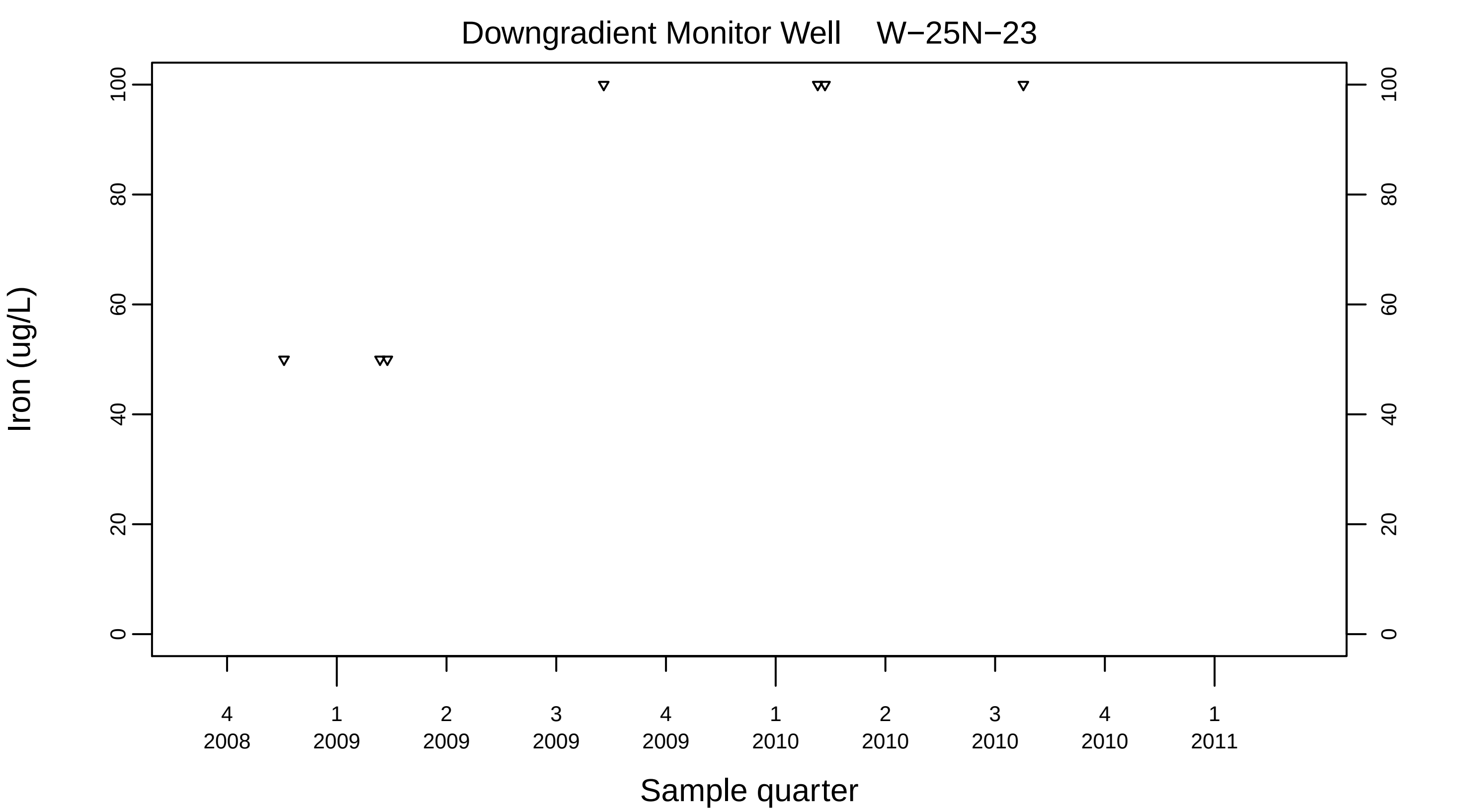

Sewage Ponds Ground Water
Iron (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Iron (ug/L)
0
20
40
60
80
100
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

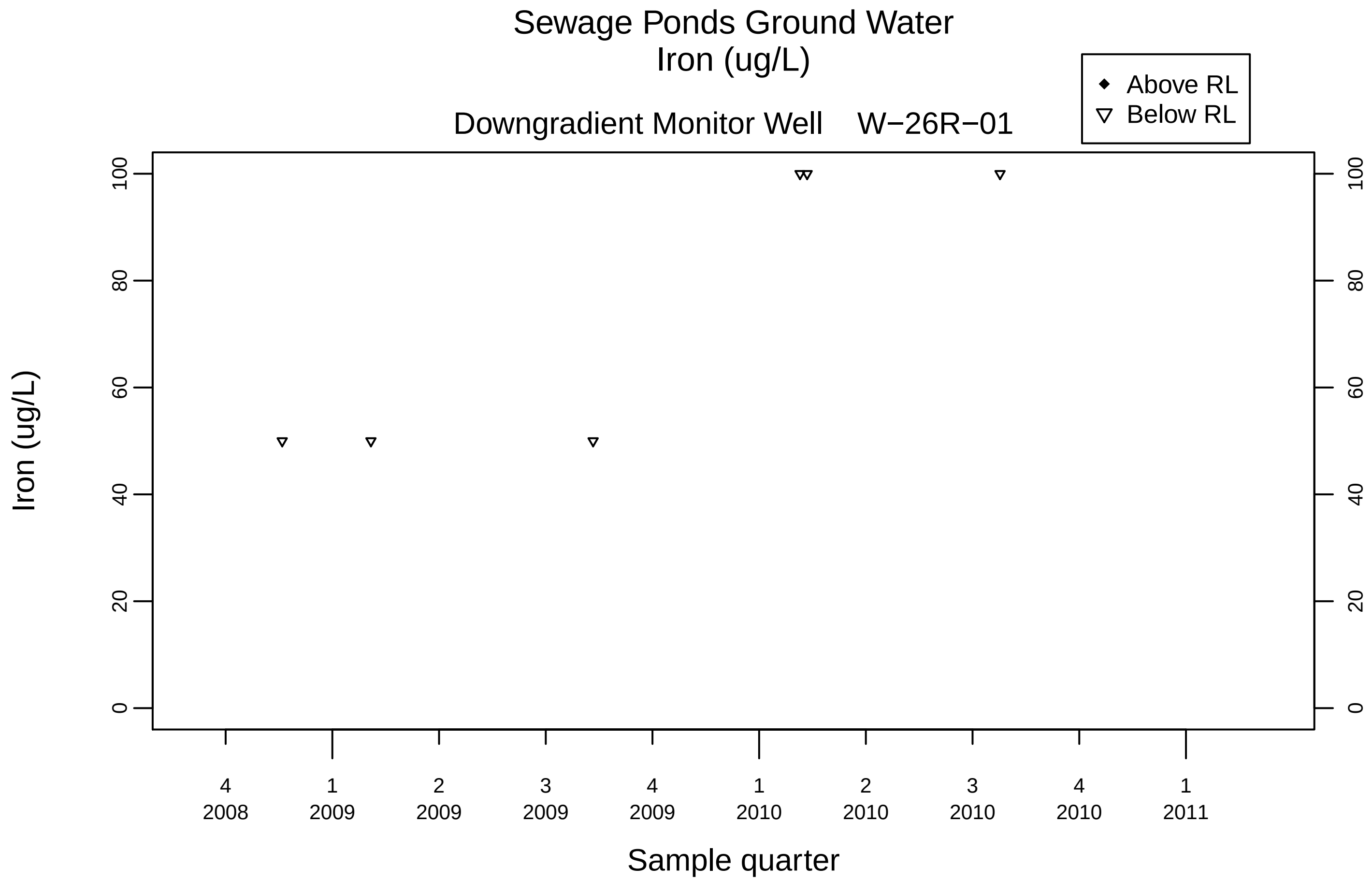

Upgradient Monitor Well W−7PS
Iron (ug/L)
0
20
40
60
80
100
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

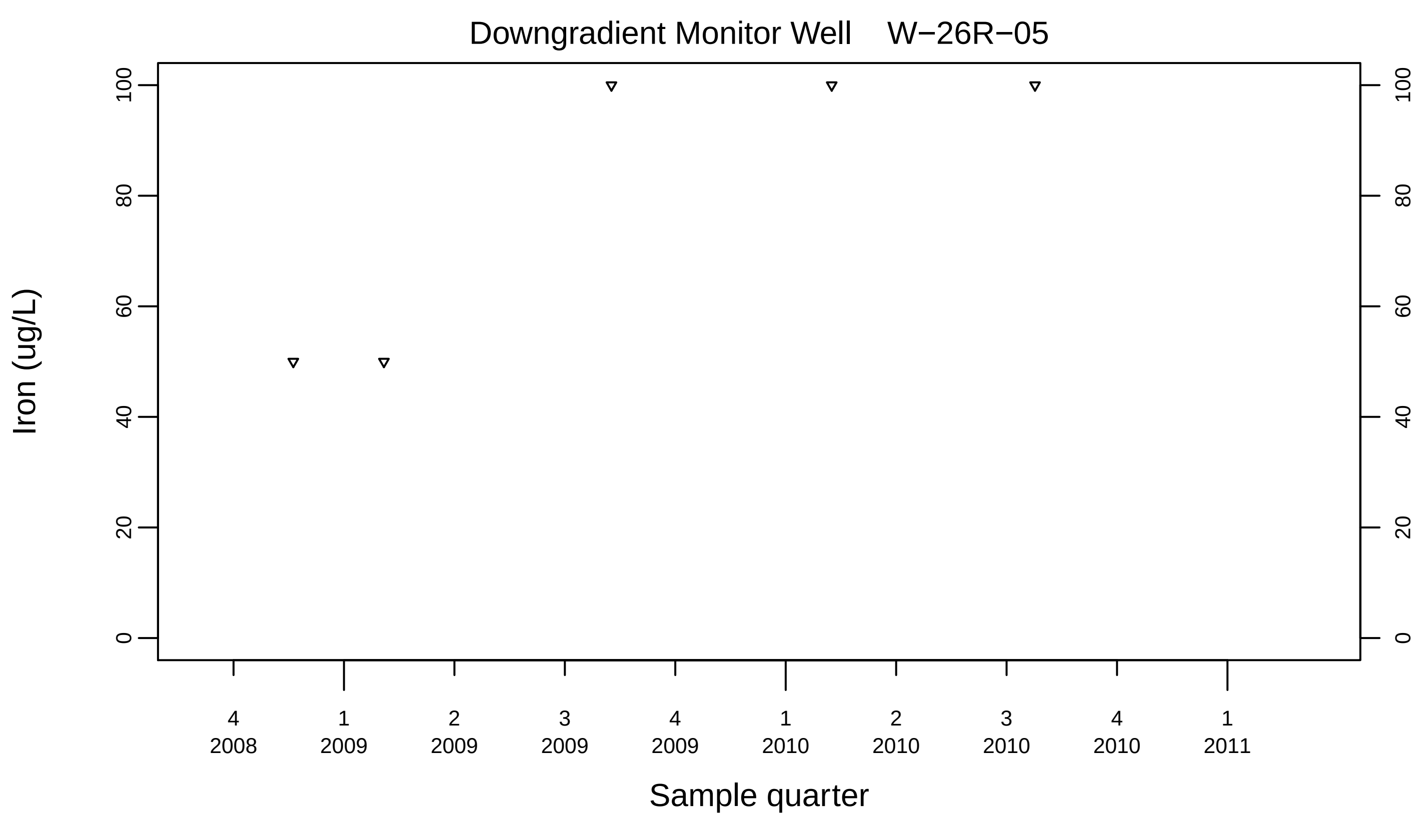

Sewage Ponds Ground Water
Iron (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Iron (ug/L)
0
20
40
60
80
100
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

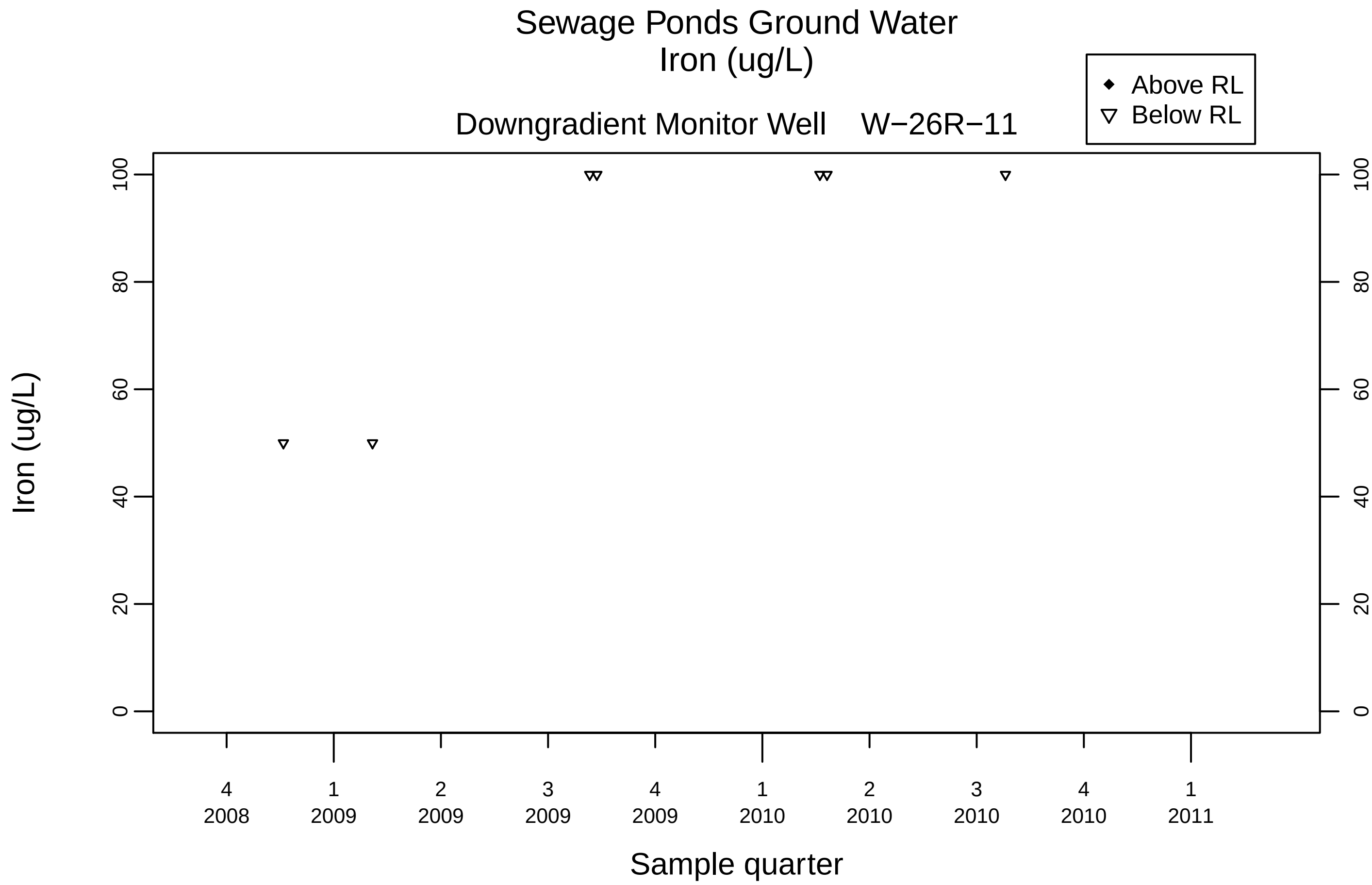

Downgradient Monitor Well W−7DS
Iron (ug/L)
0
20
40
60
80
100
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


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
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

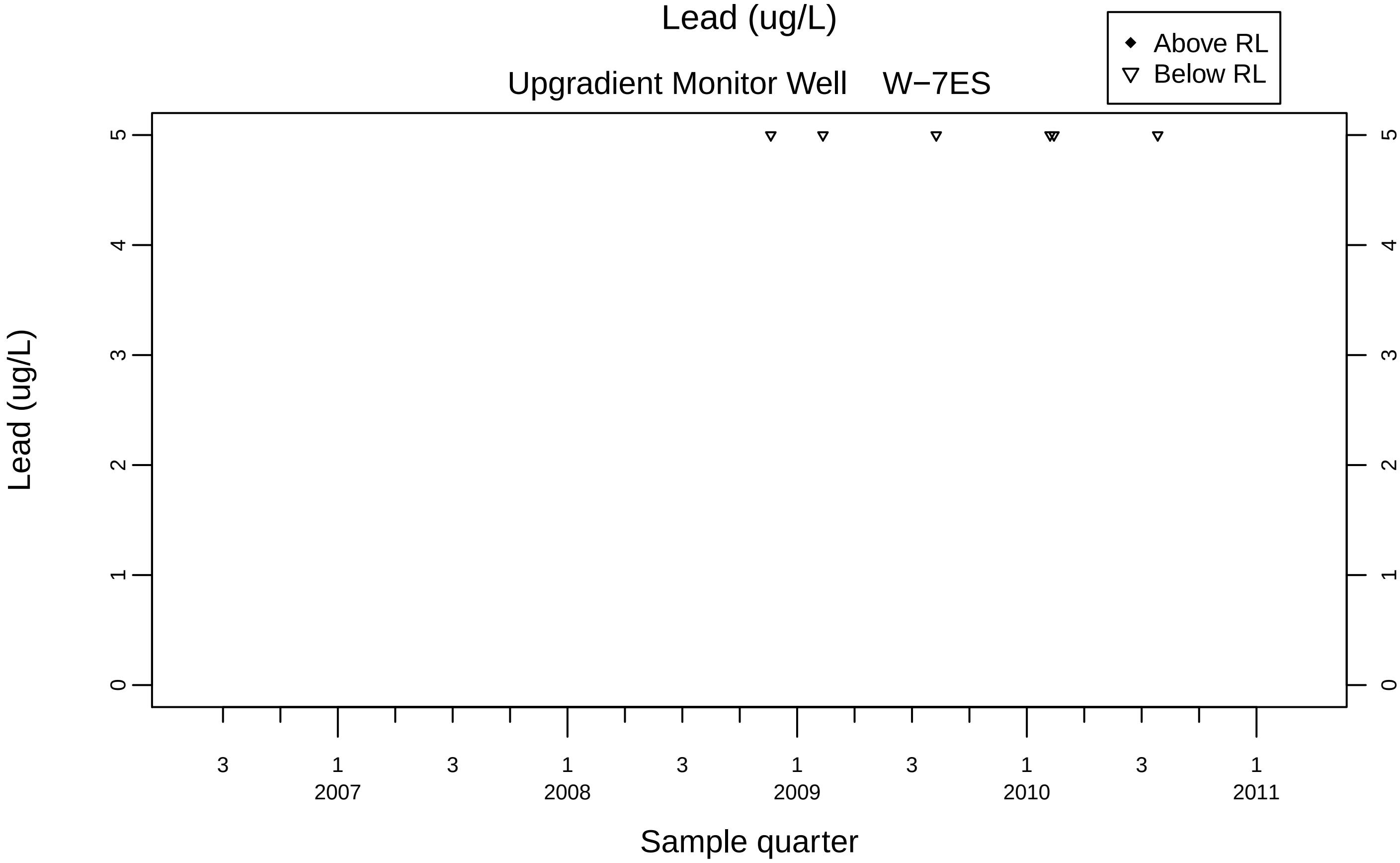

Downgradient Monitor Well W−25N−23
Iron (ug/L)
0
20
40
60
80
100
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

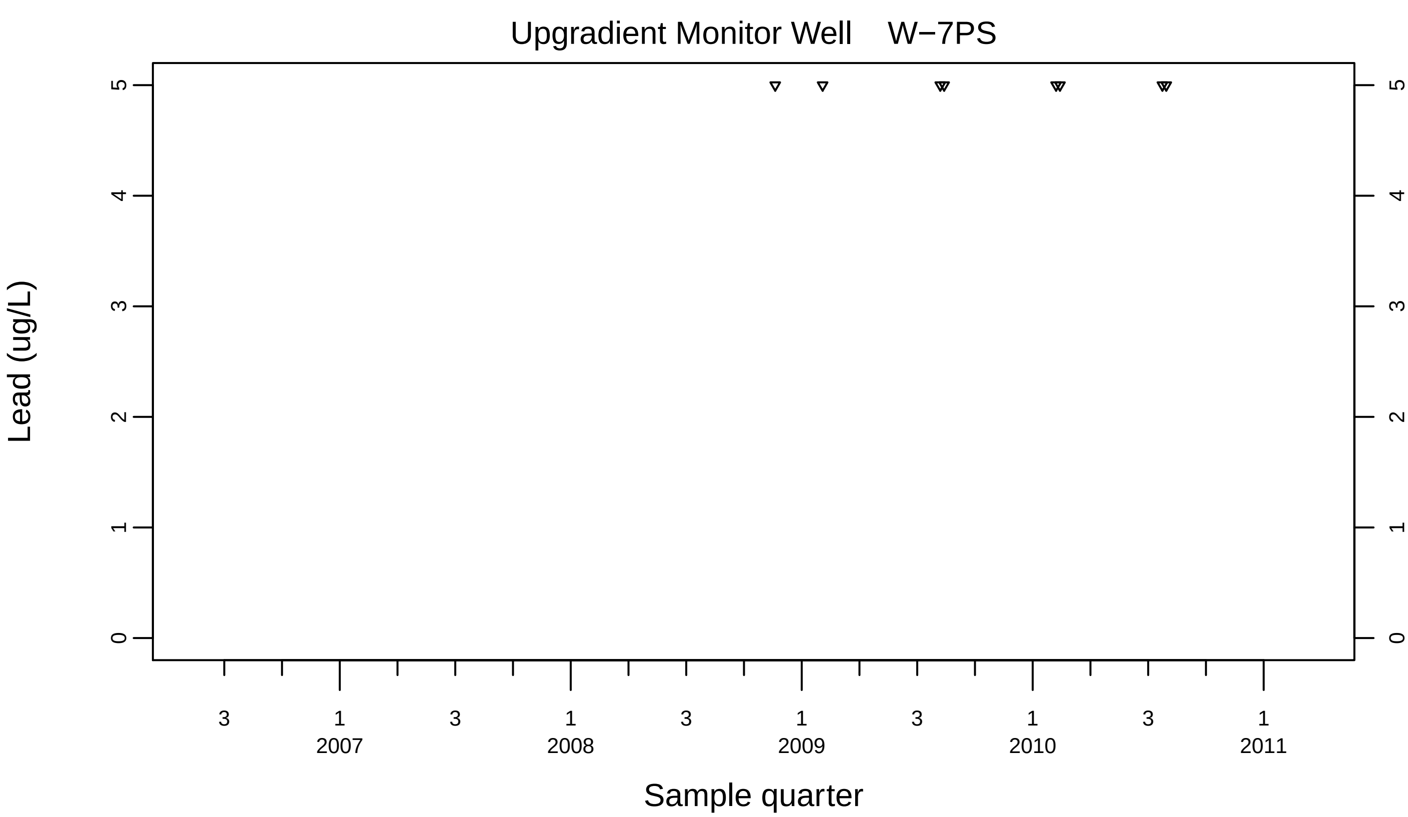

Sewage Ponds Ground Water
Iron (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Iron (ug/L)
0
20
40
60
80
100
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


Downgradient Monitor Well W−26R−05
Iron (ug/L)
0
20
40
60
80
100
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

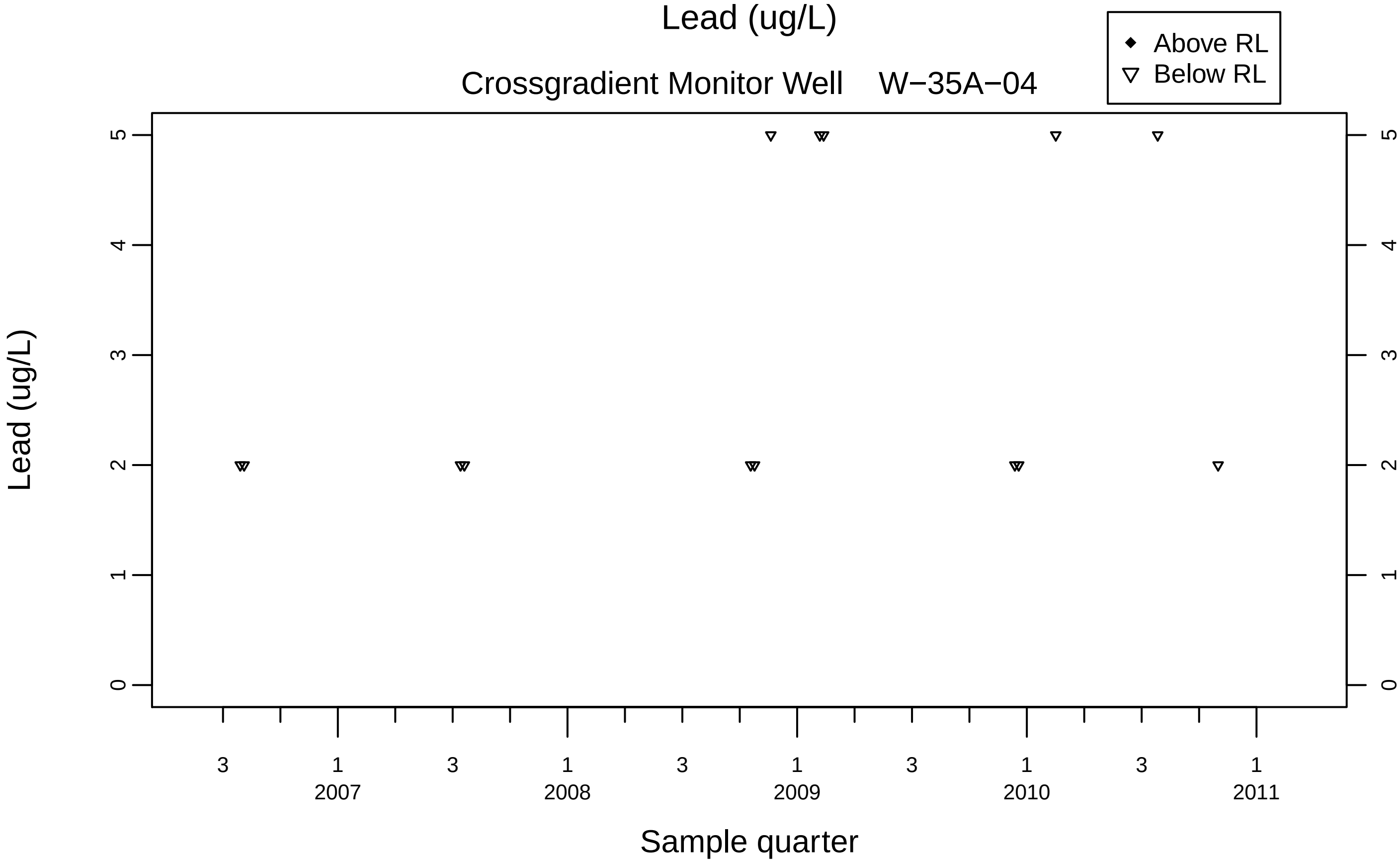

Sewage Ponds Ground Water
Iron (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Iron (ug/L)
0
20
40
60
80
100
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

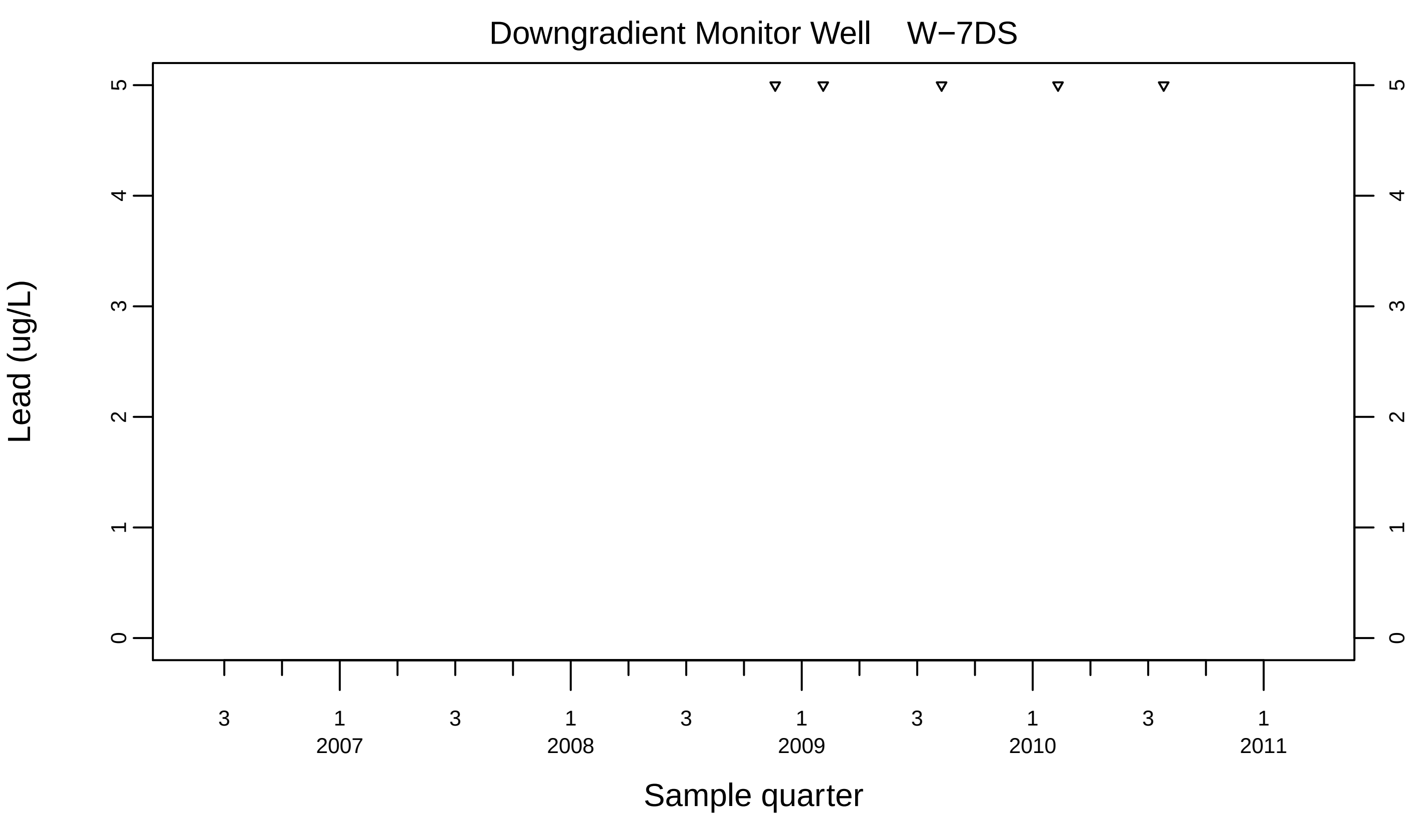
Sewage Ponds Ground Water
Lead (ug/L)



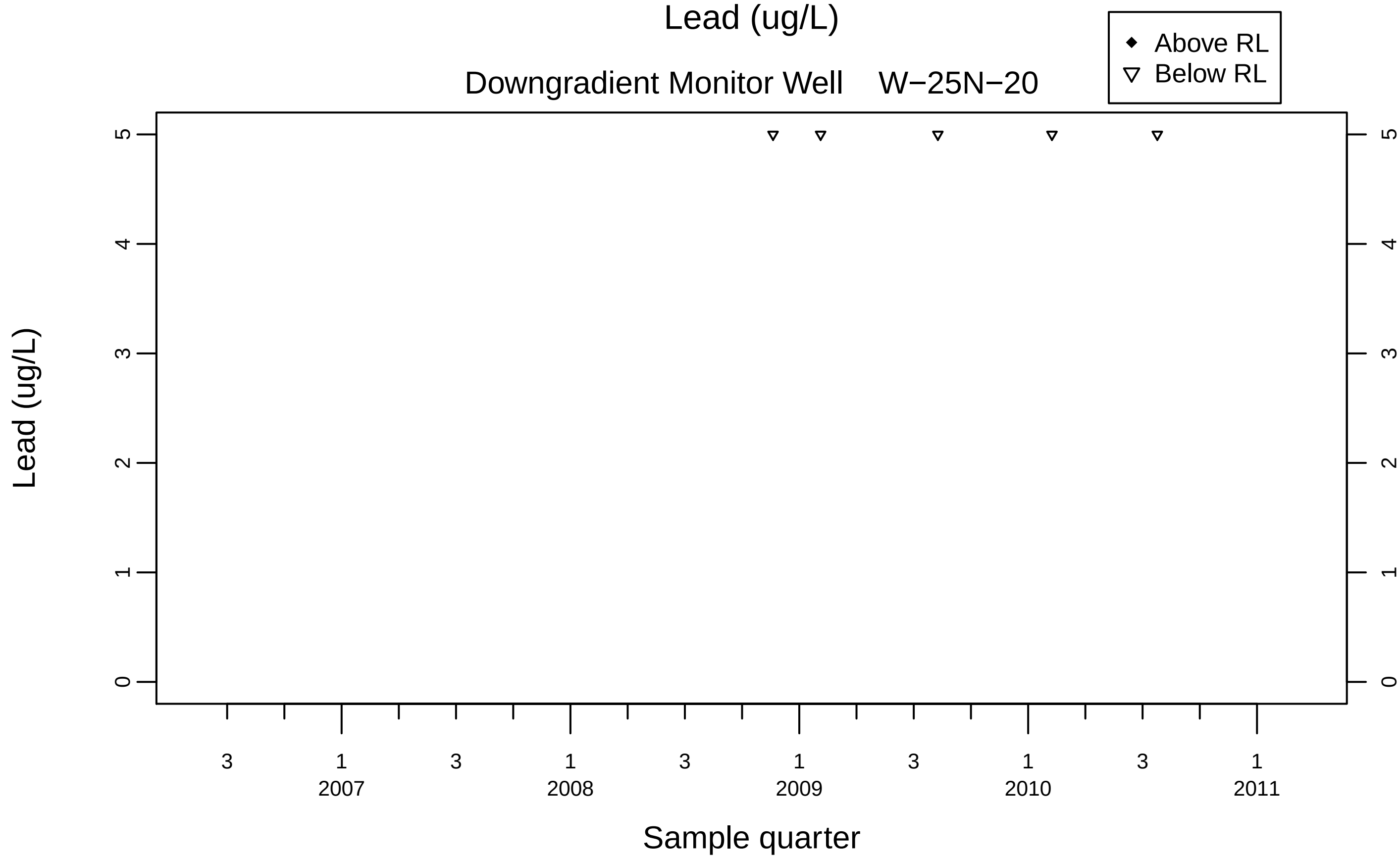


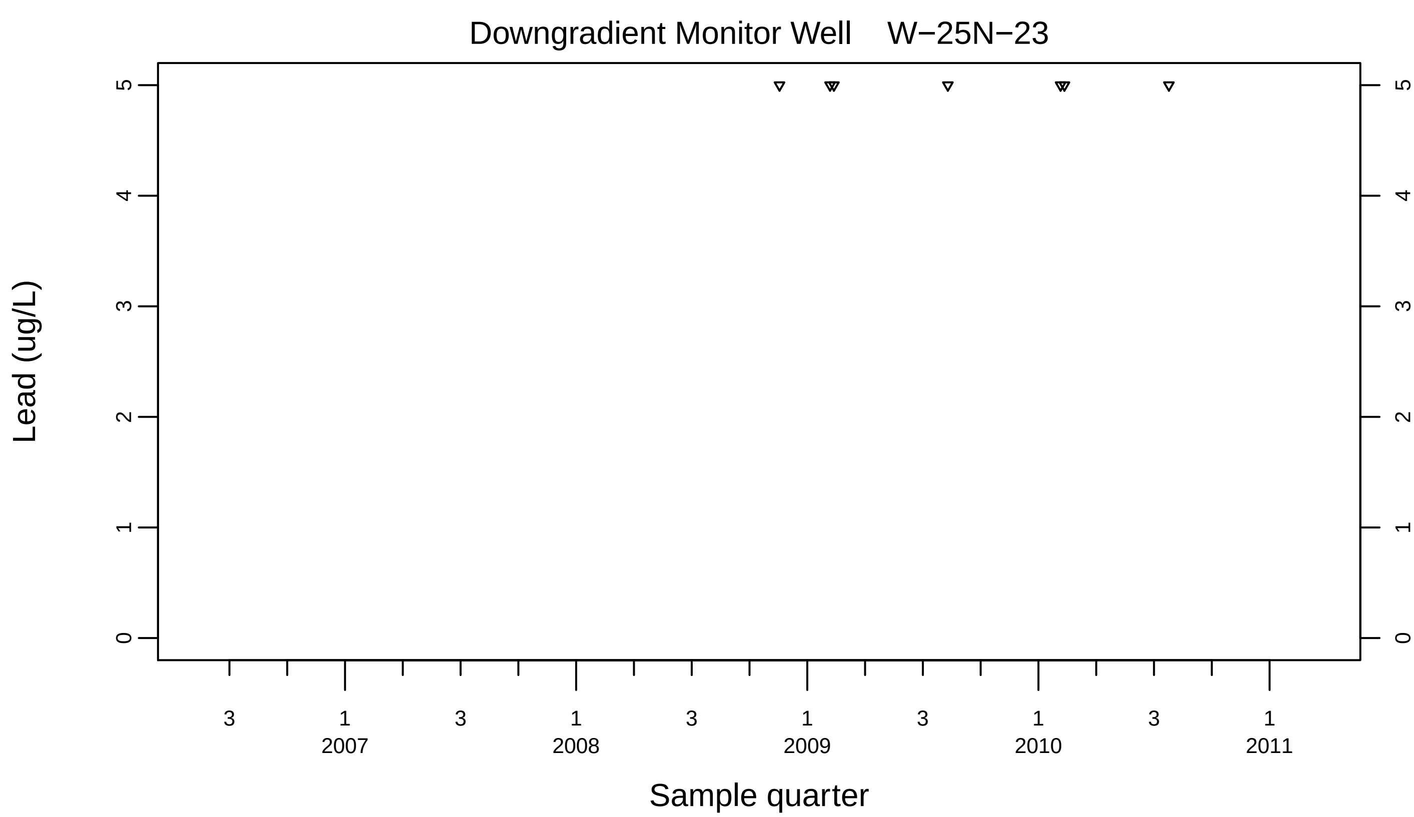
Sewage Ponds Ground Water
Lead (ug/L)

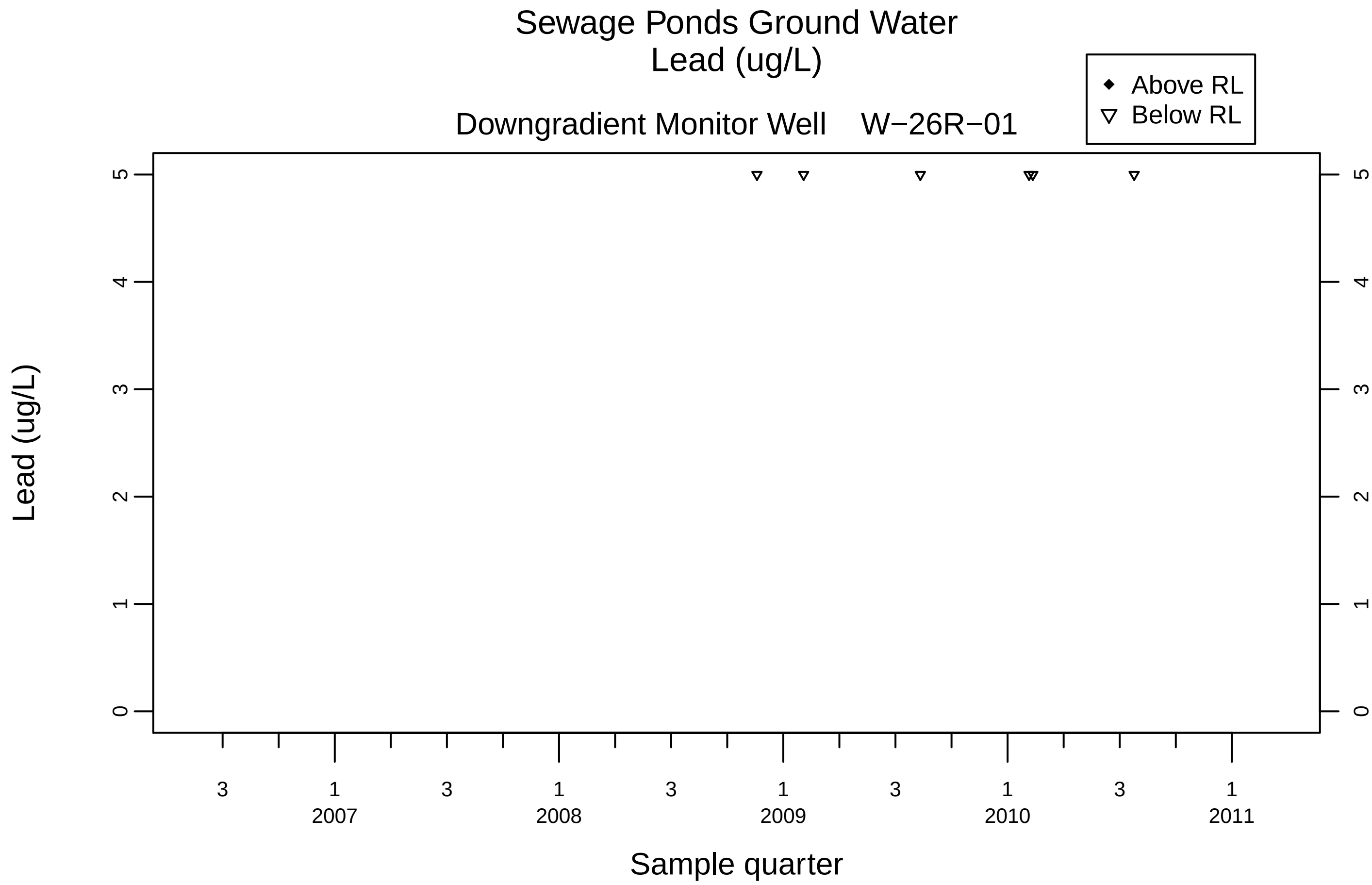


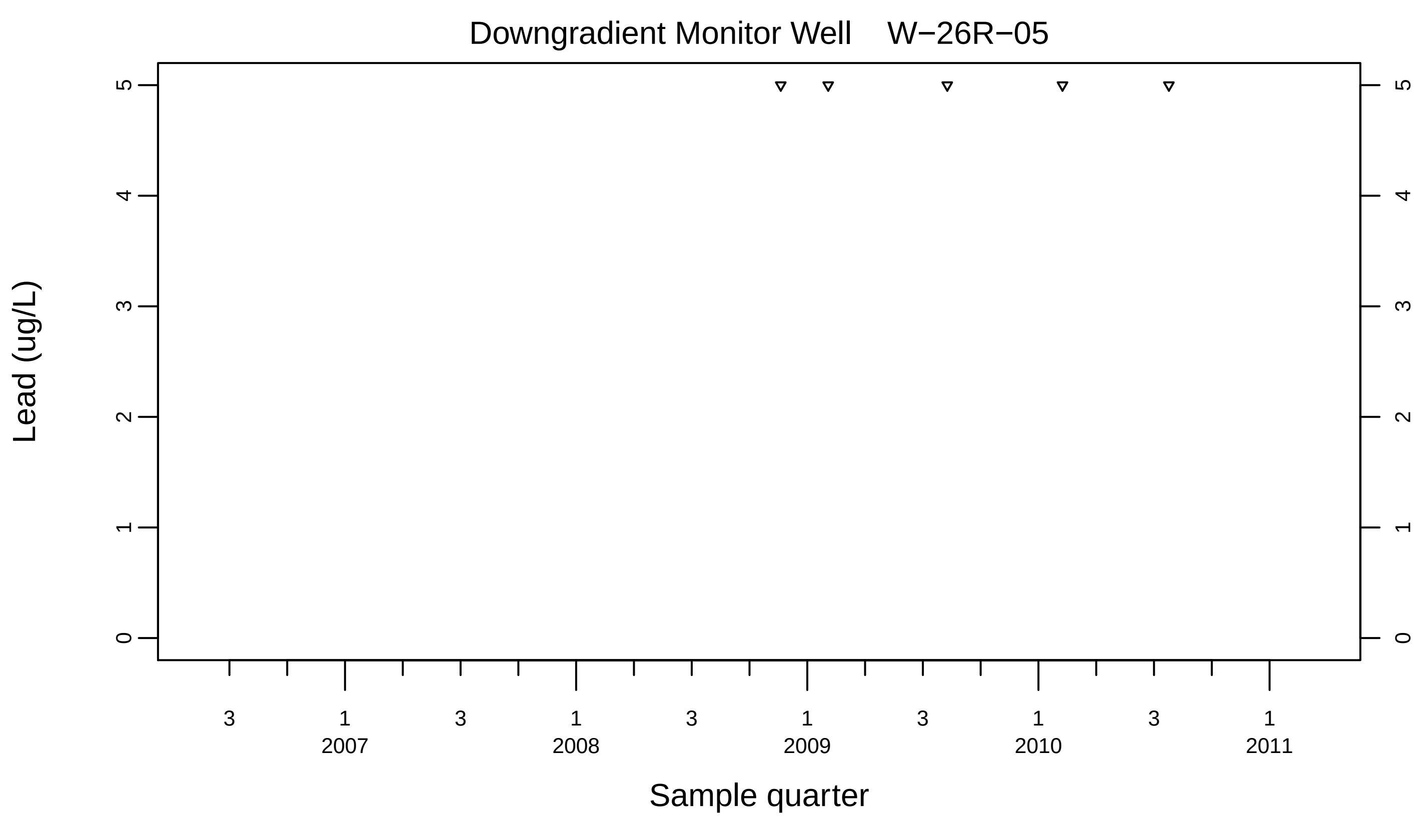


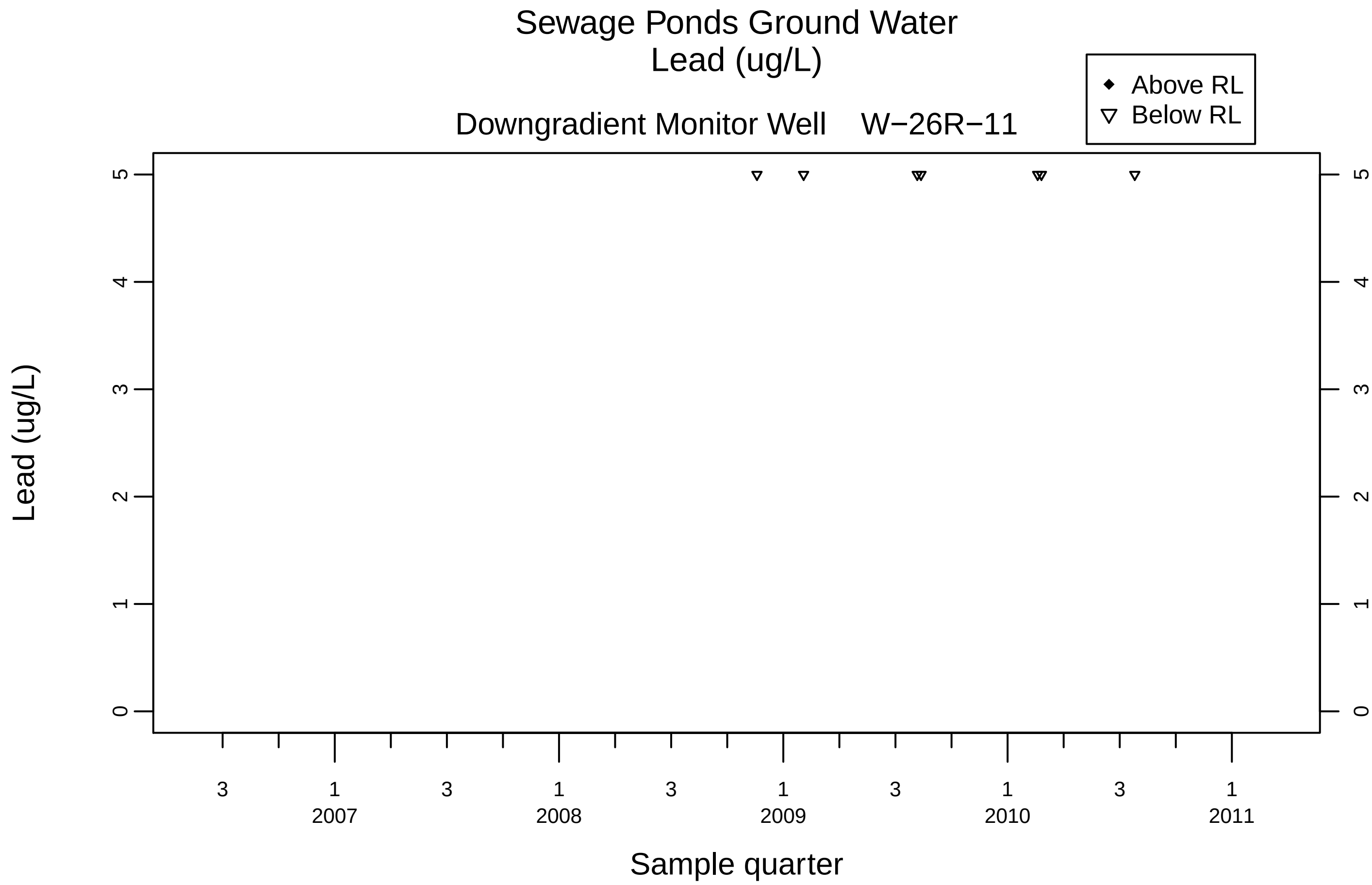
Sewage Ponds Ground Water
Lead (ug/L)



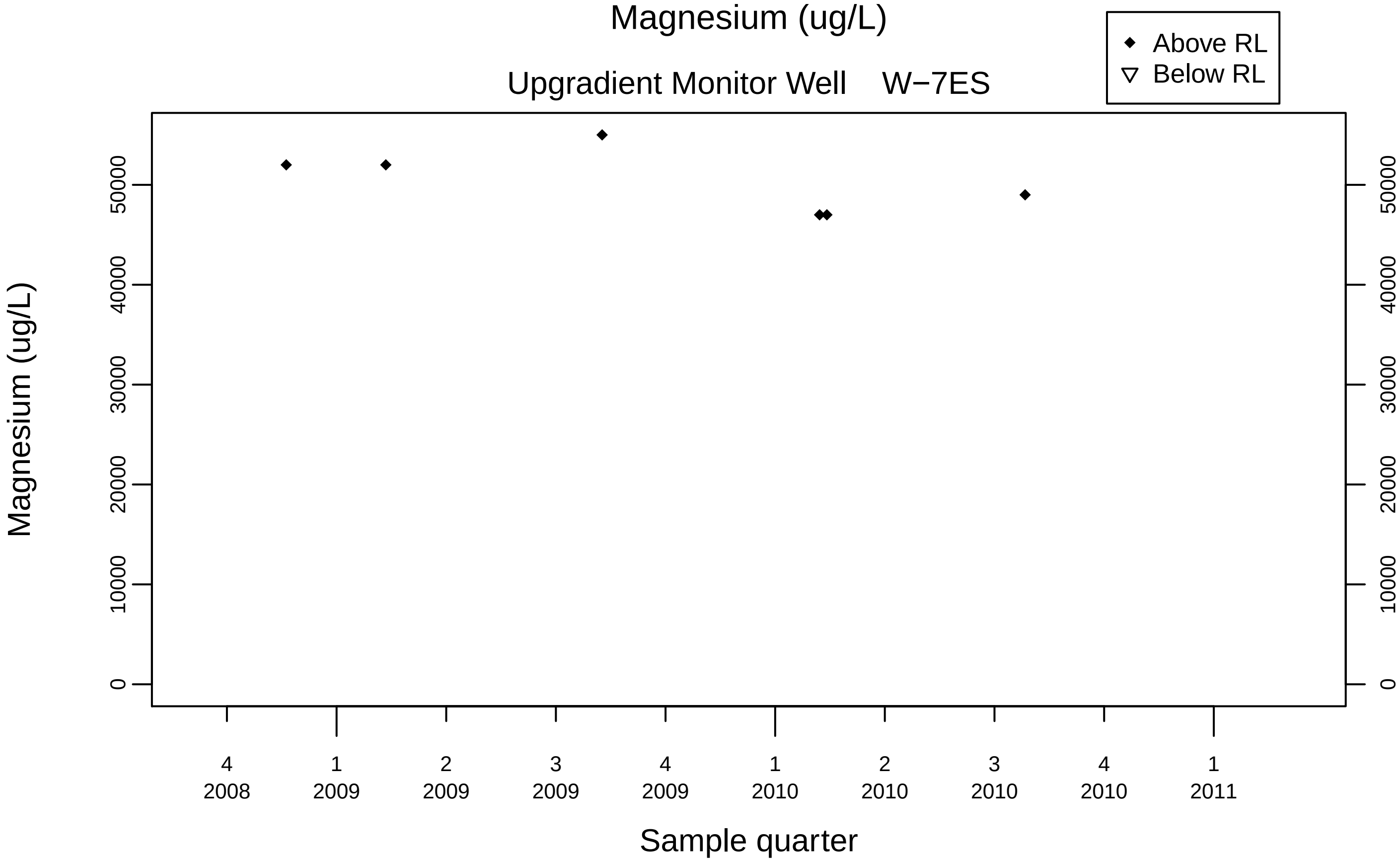


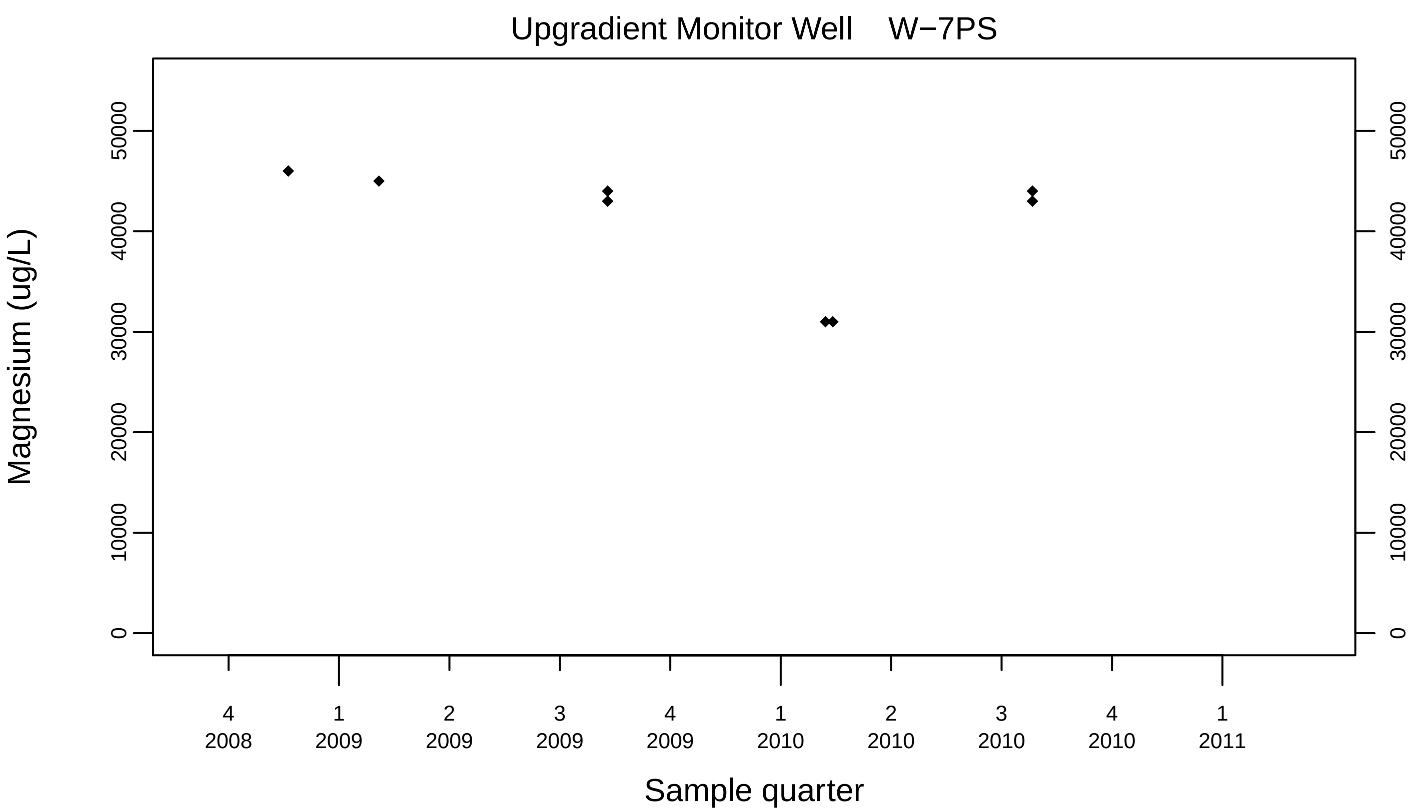

Sewage Ponds Ground Water
Lead (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter


Downgradient Monitor Well W−26R−05
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

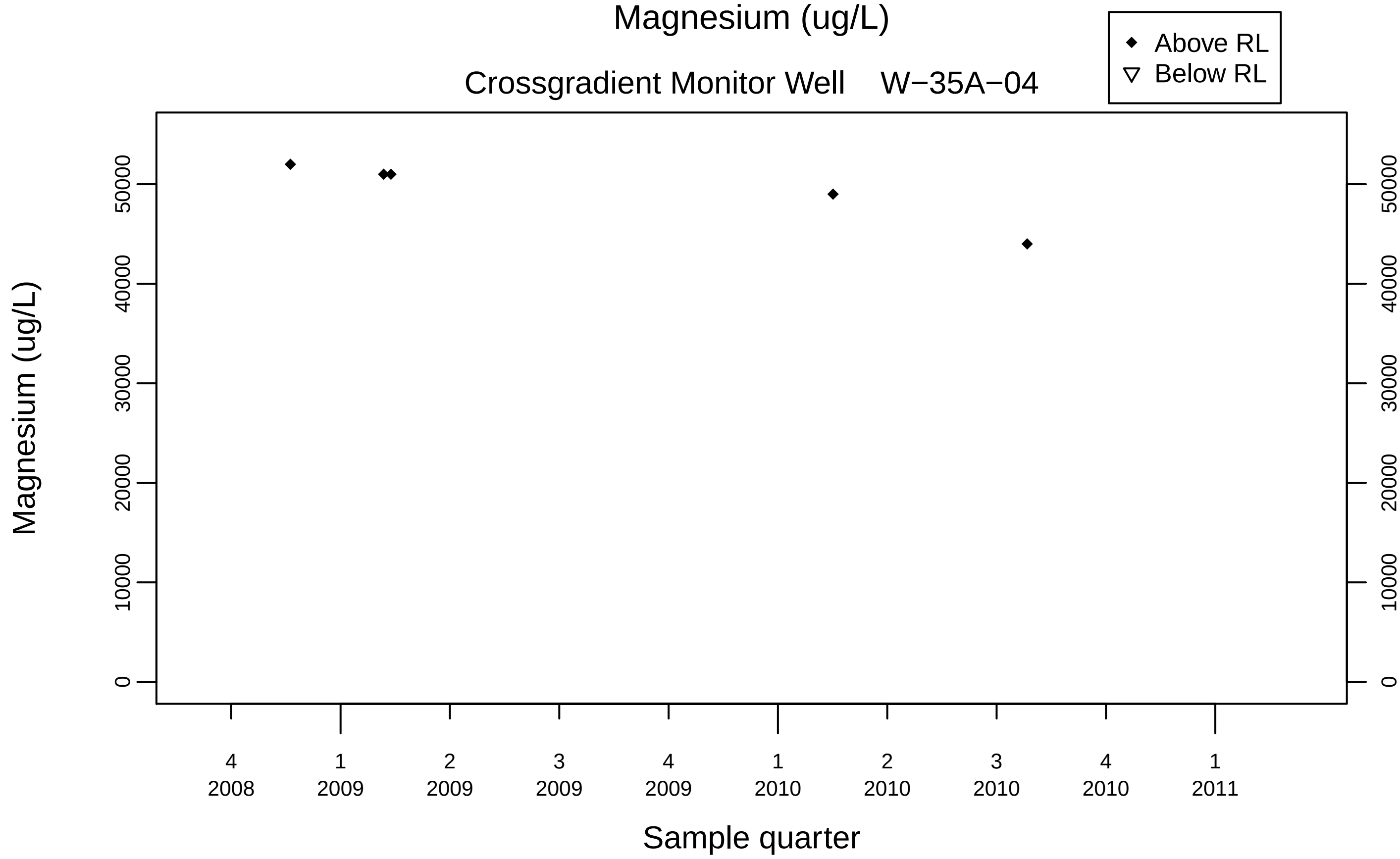

Sewage Ponds Ground Water
Lead (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Lead (ug/L)
0
1
2
3
4
5
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

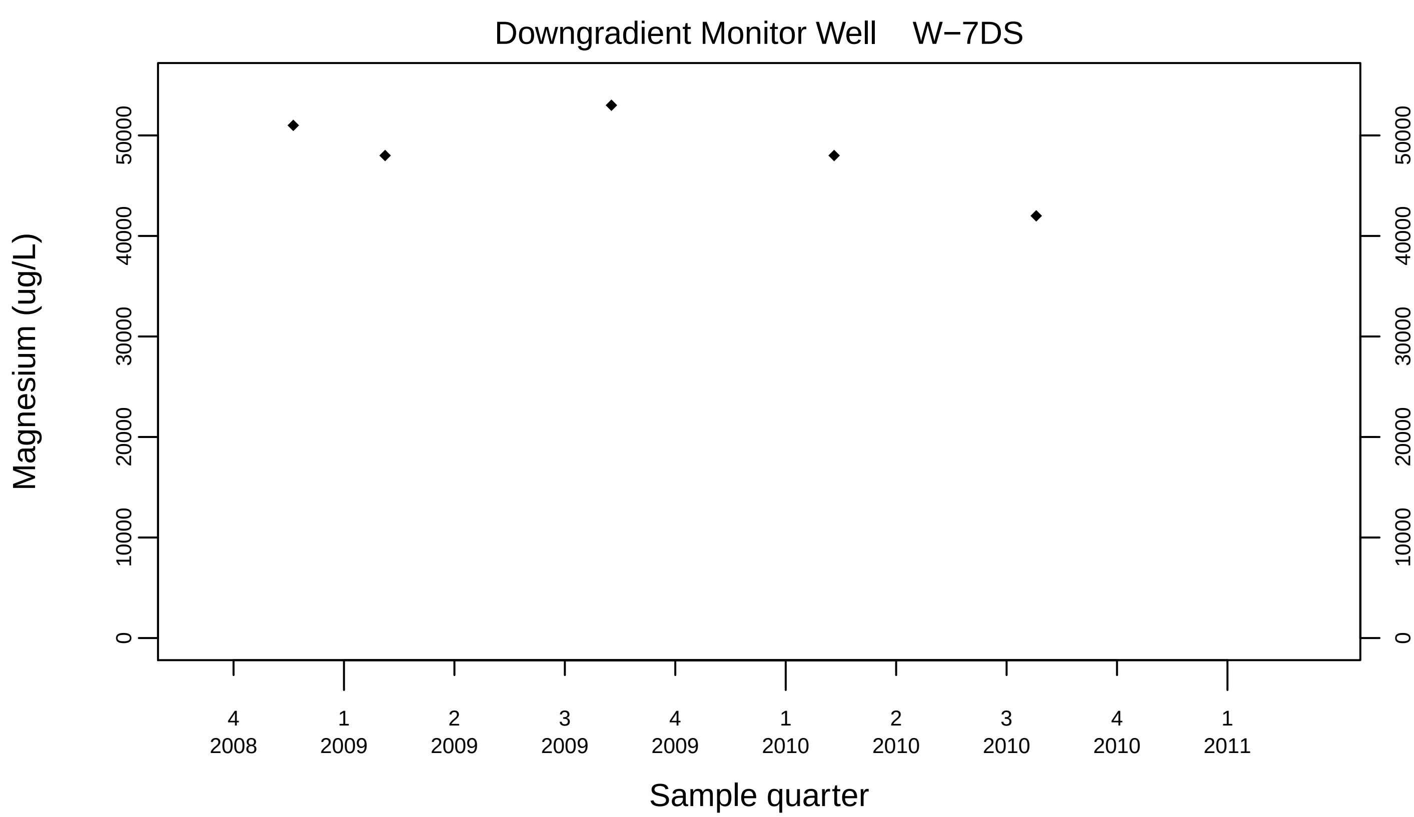
Sewage Ponds Ground Water
Magnesium (ug/L)



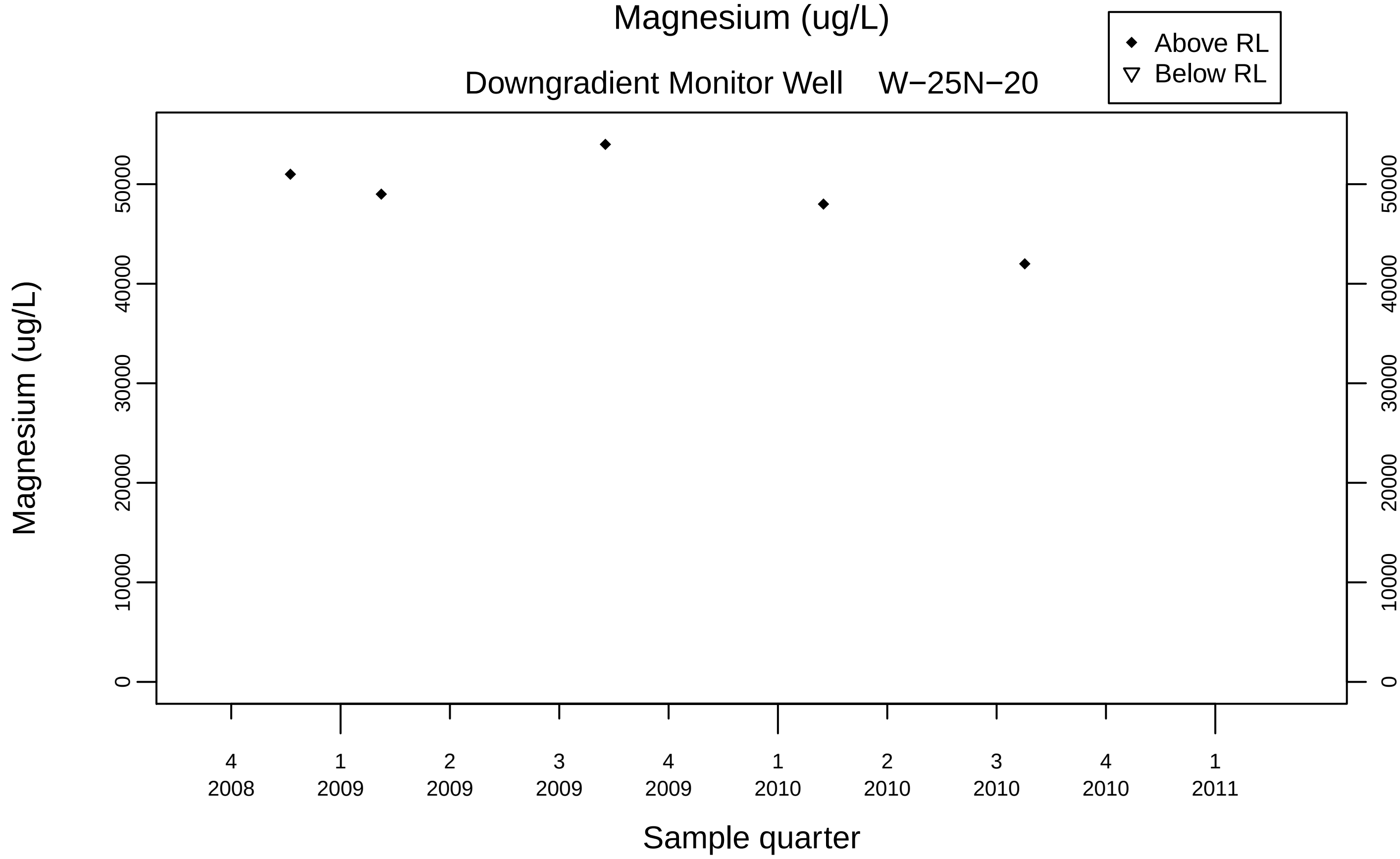


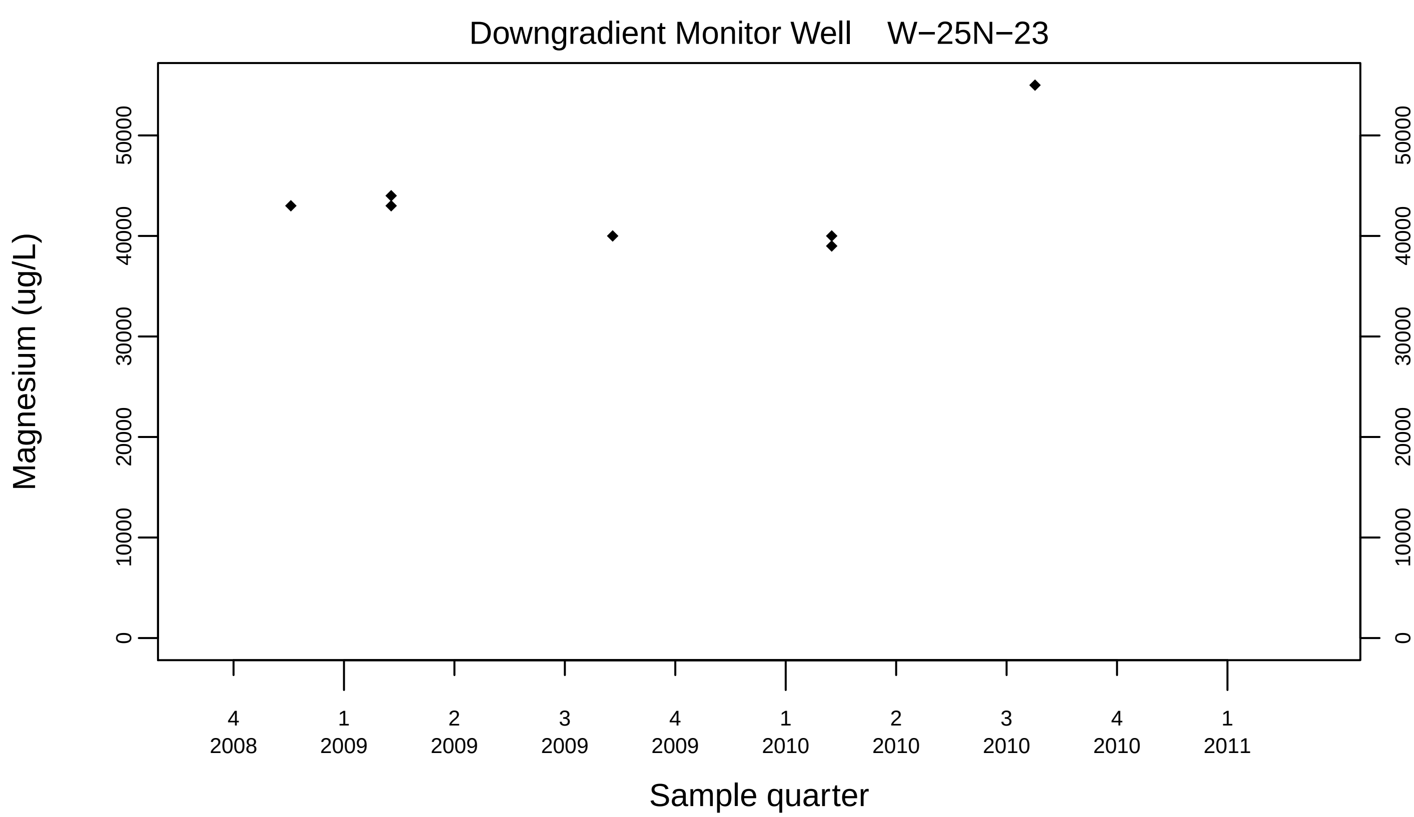
Sewage Ponds Ground Water
Magnesium (ug/L)



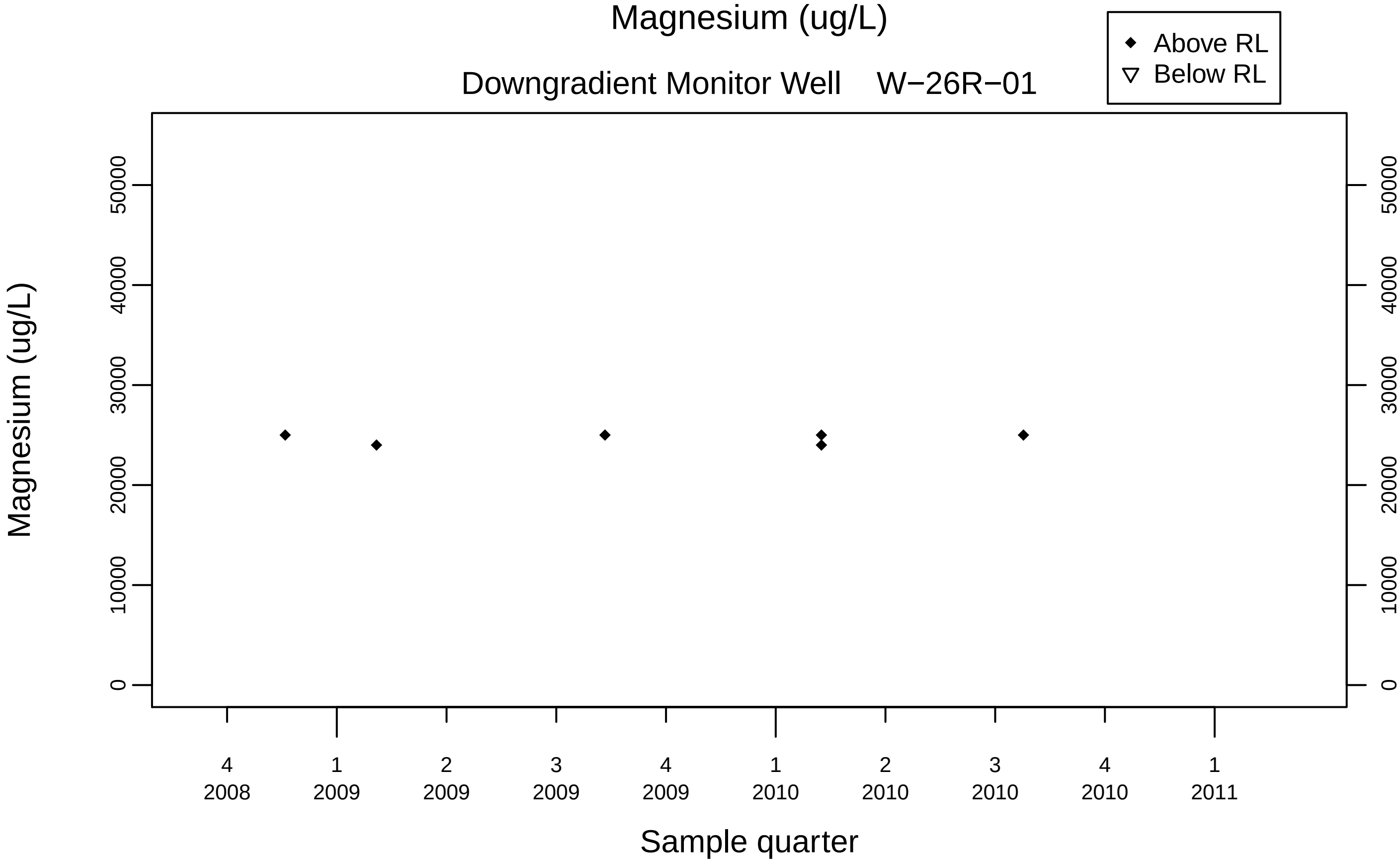


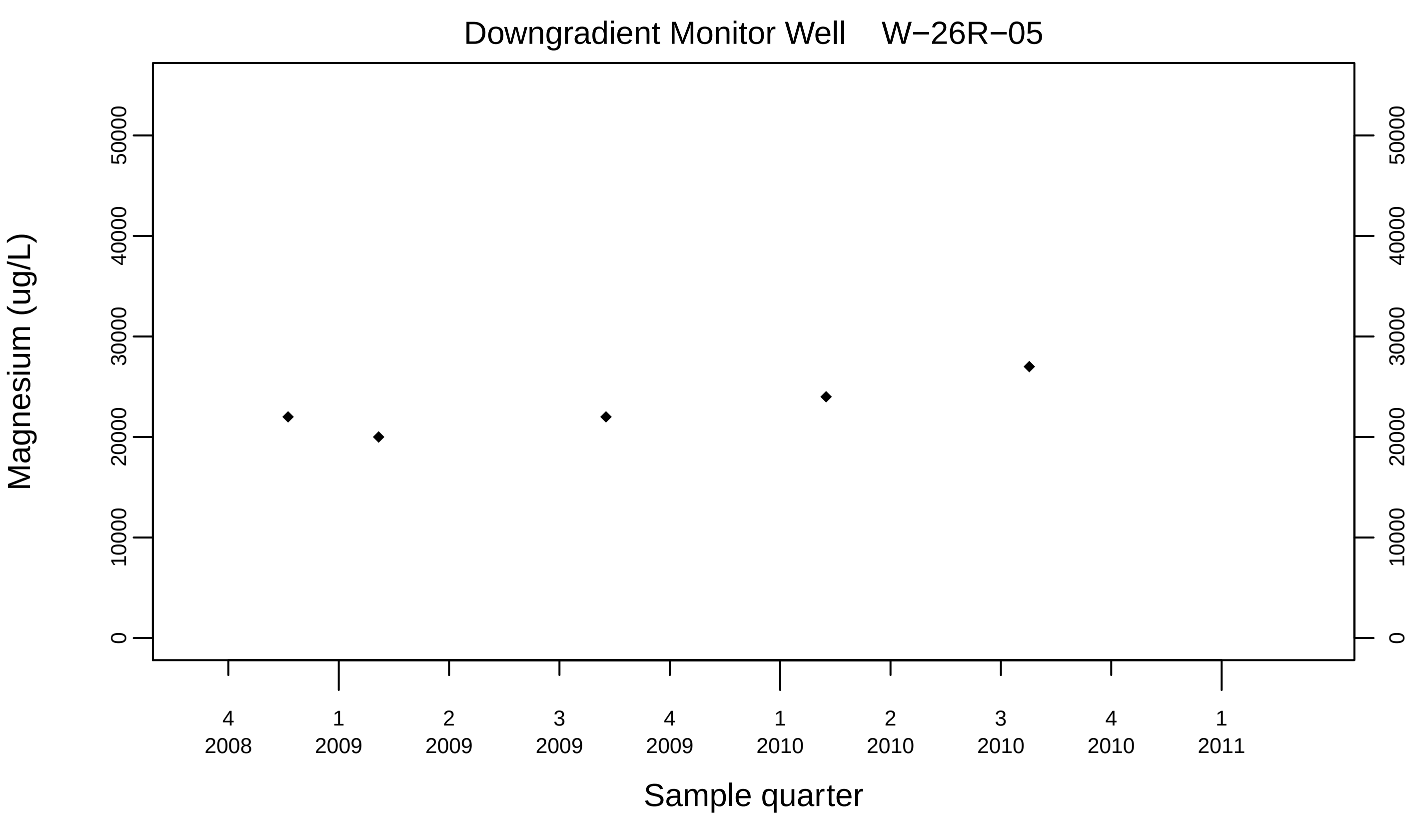
Sewage Ponds Ground Water
Magnesium (ug/L)

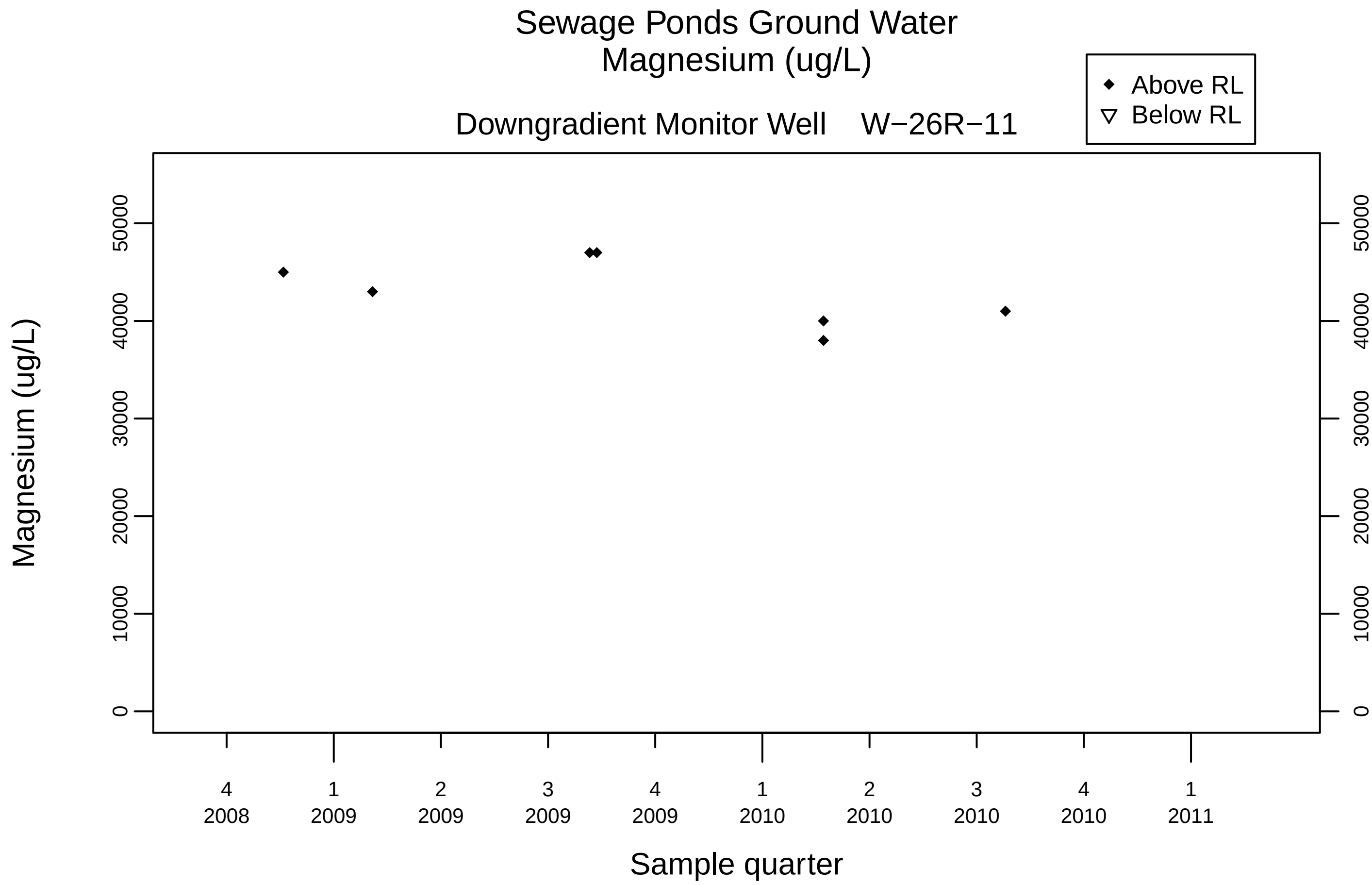


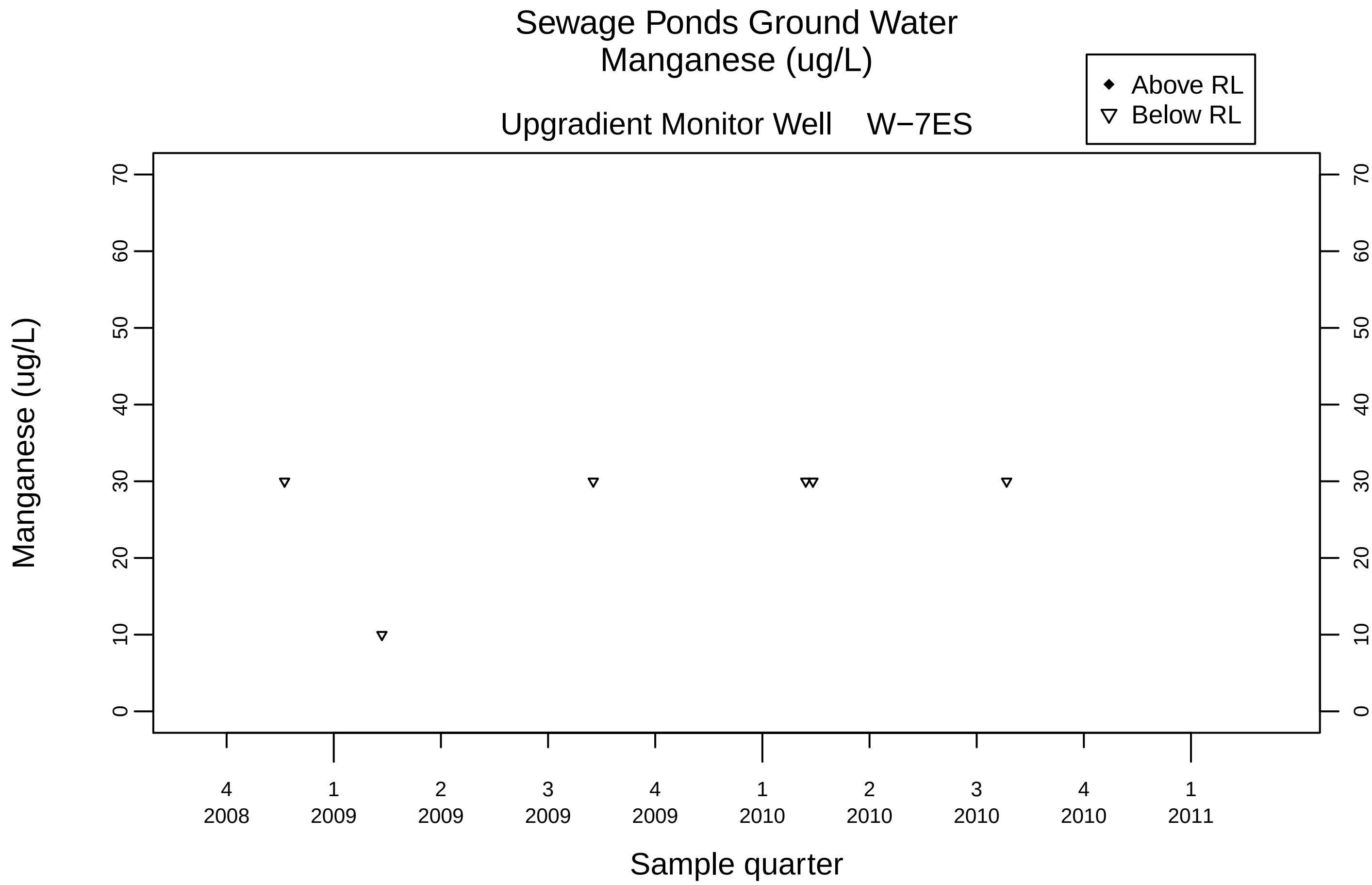


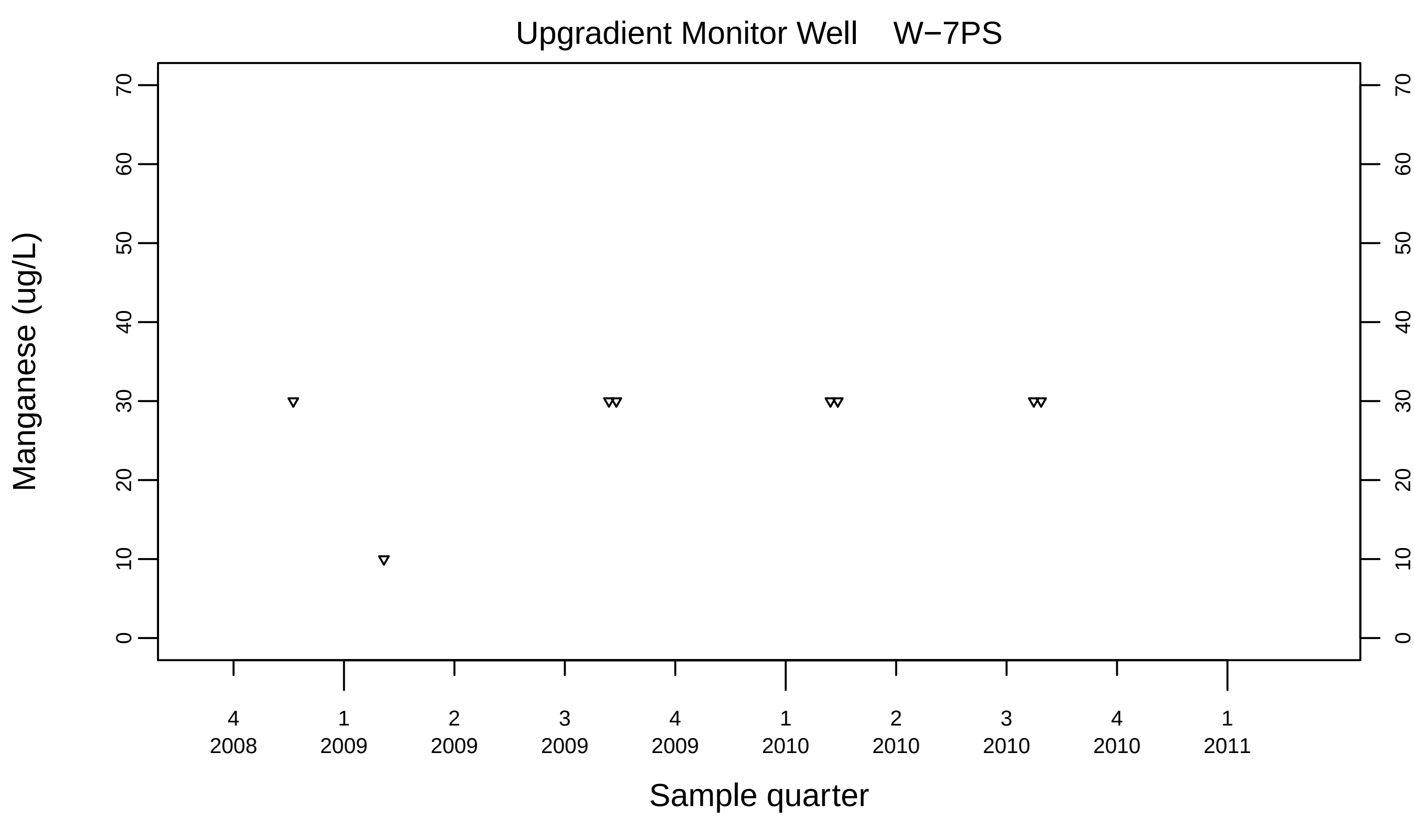
Sewage Ponds Ground Water
Magnesium (ug/L)

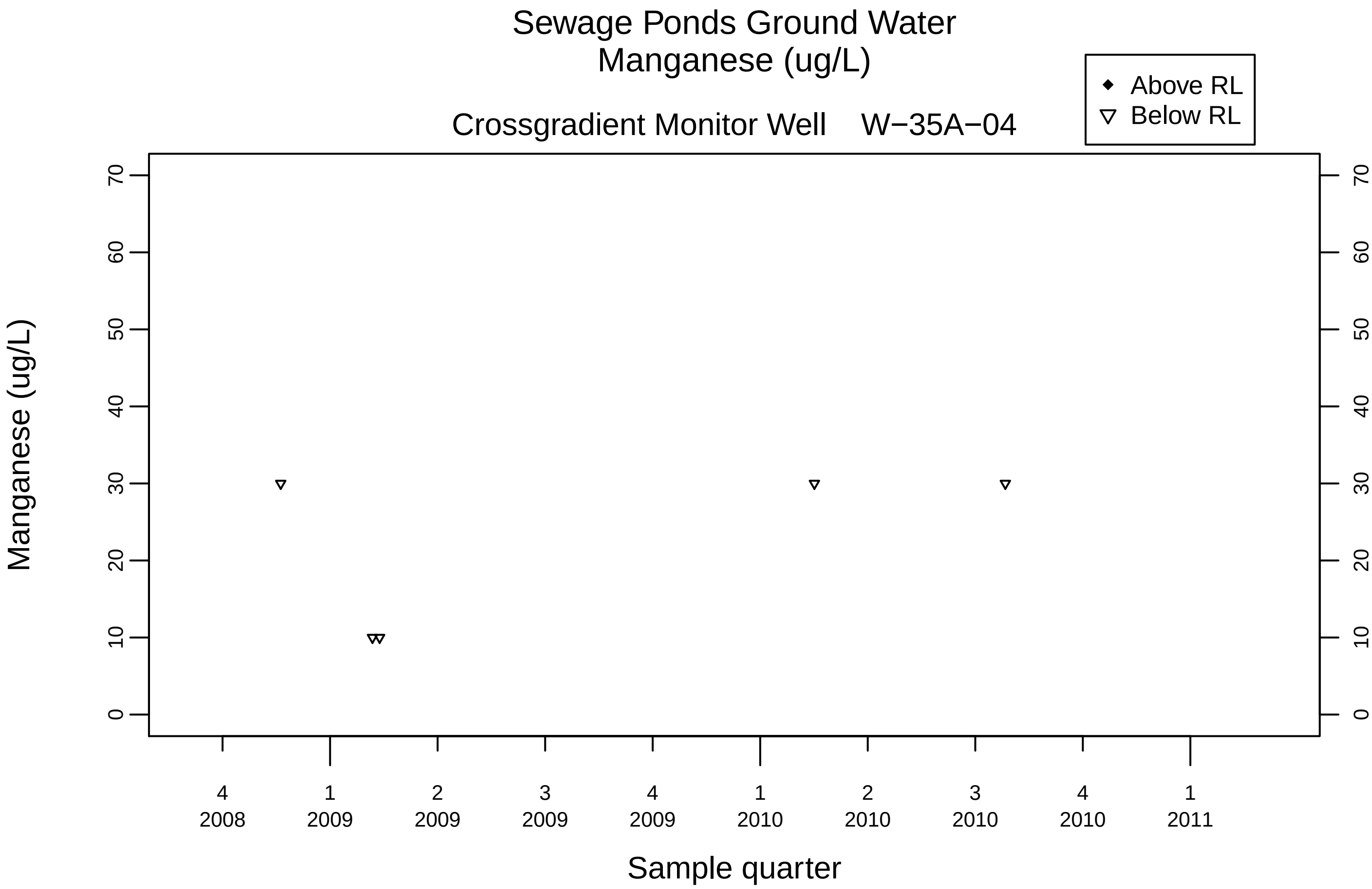


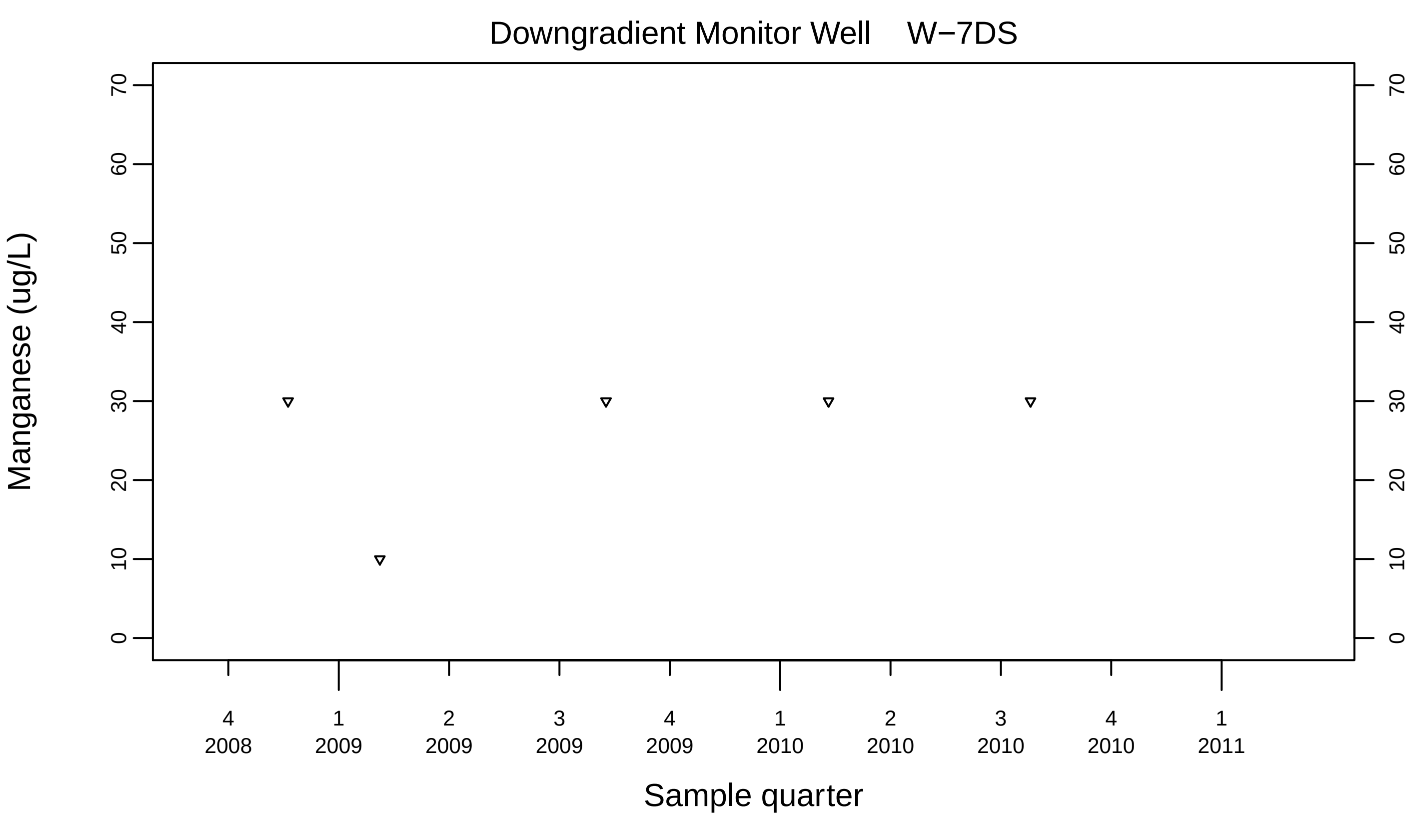



Sewage Ponds Ground Water
Magnesium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Magnesium (ug/L)
0
10000
20000
30000
40000
50000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

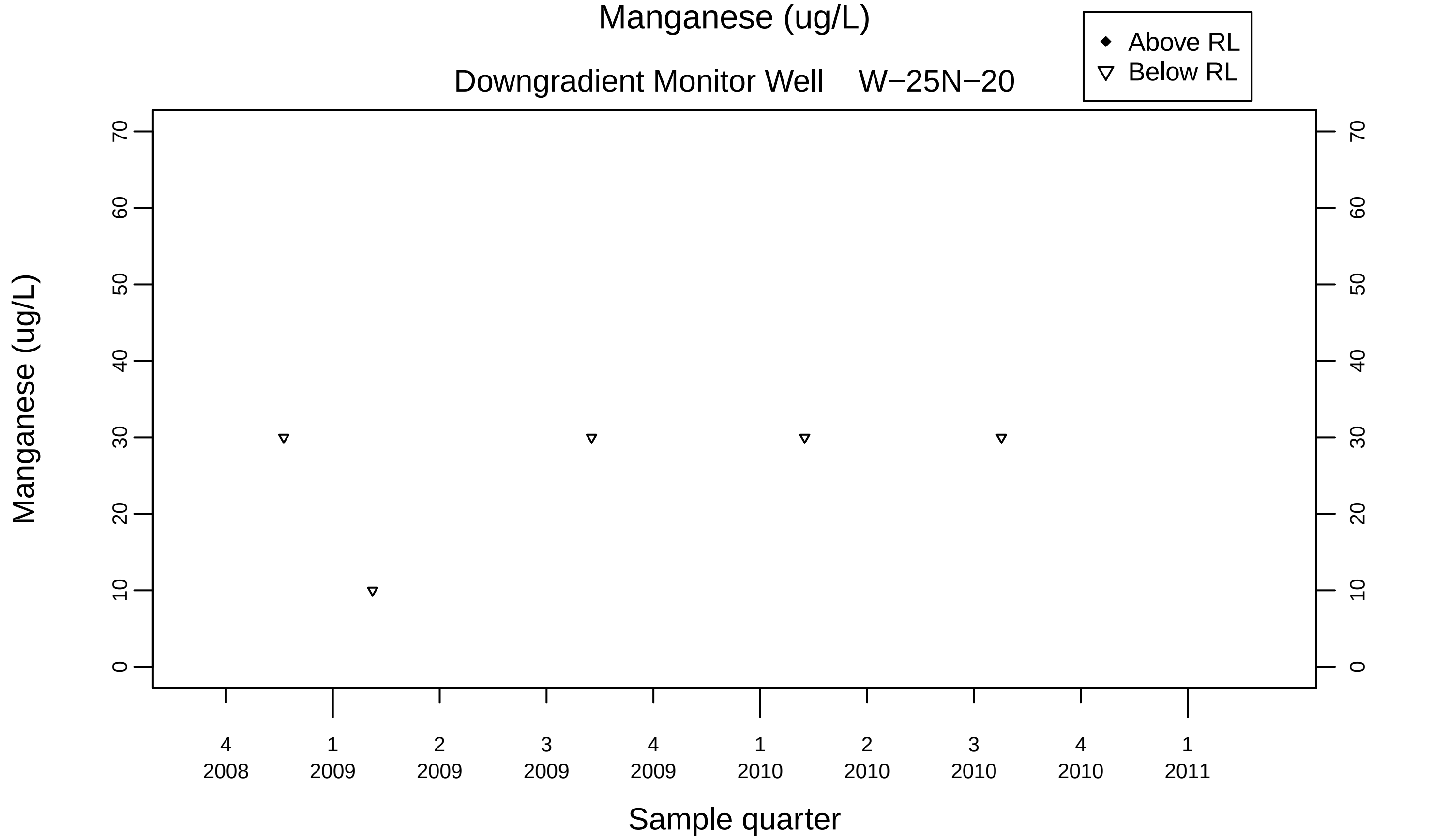

Sewage Ponds Ground Water
Manganese (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Manganese (ug/L)
0
10
20
30
40
50
60
70
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

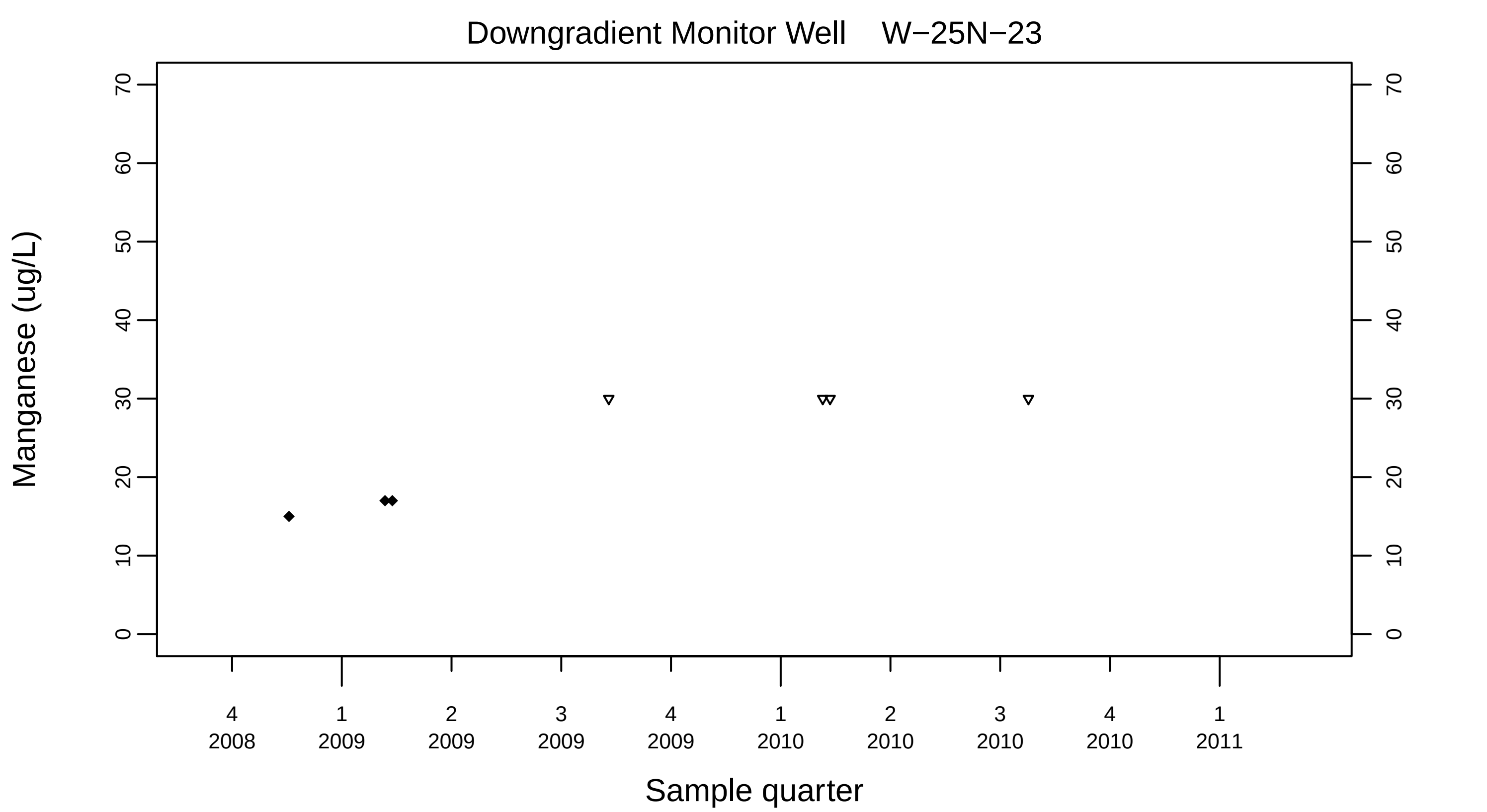

Upgradient Monitor Well W−7PS
Manganese (ug/L)
0
10
20
30
40
50
60
70
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


Sewage Ponds Ground Water
Manganese (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Manganese (ug/L)
0
10
20
30
40
50
60
70
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

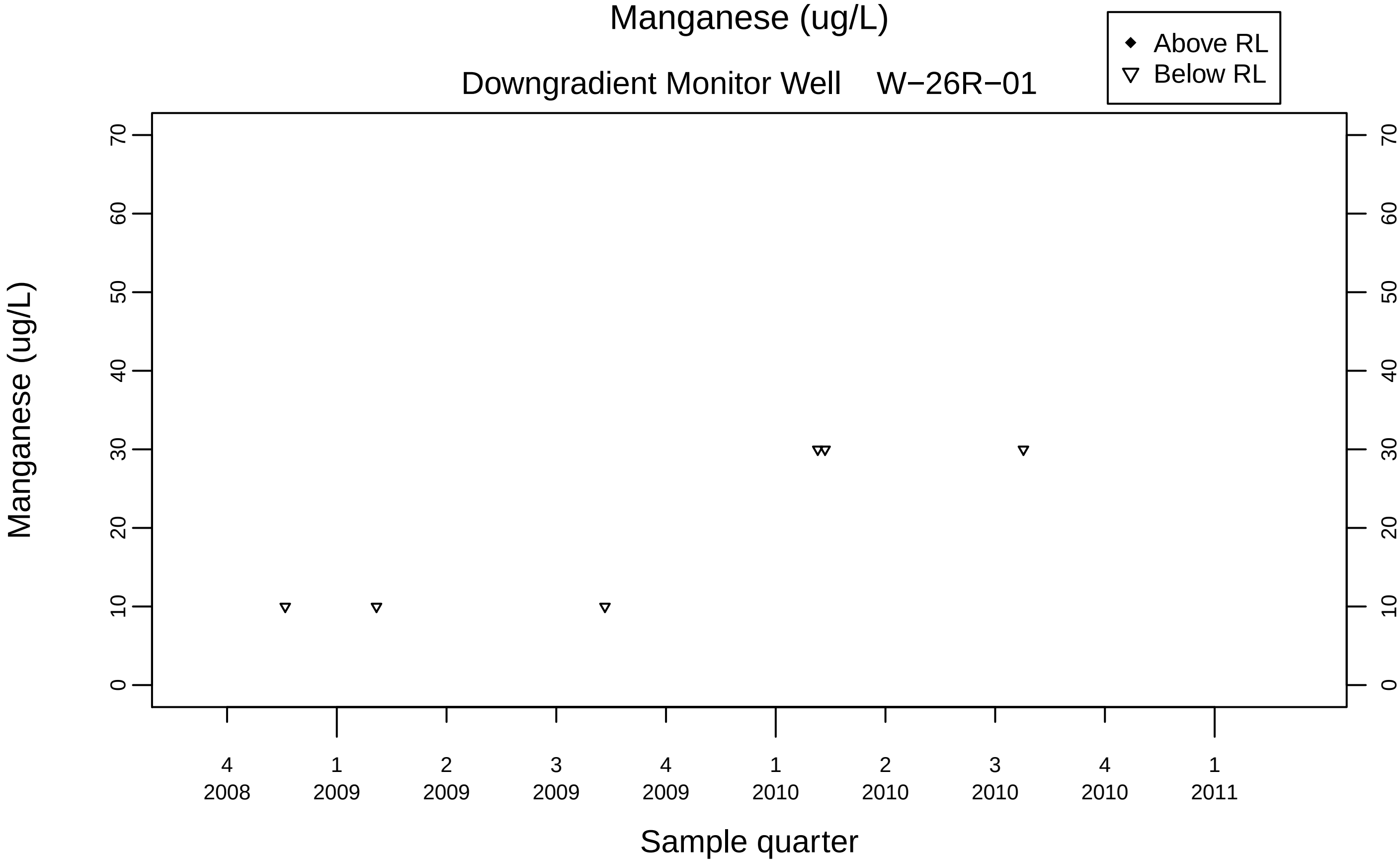

Downgradient Monitor Well W−7DS
Manganese (ug/L)
0
10
20
30
40
50
60
70
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

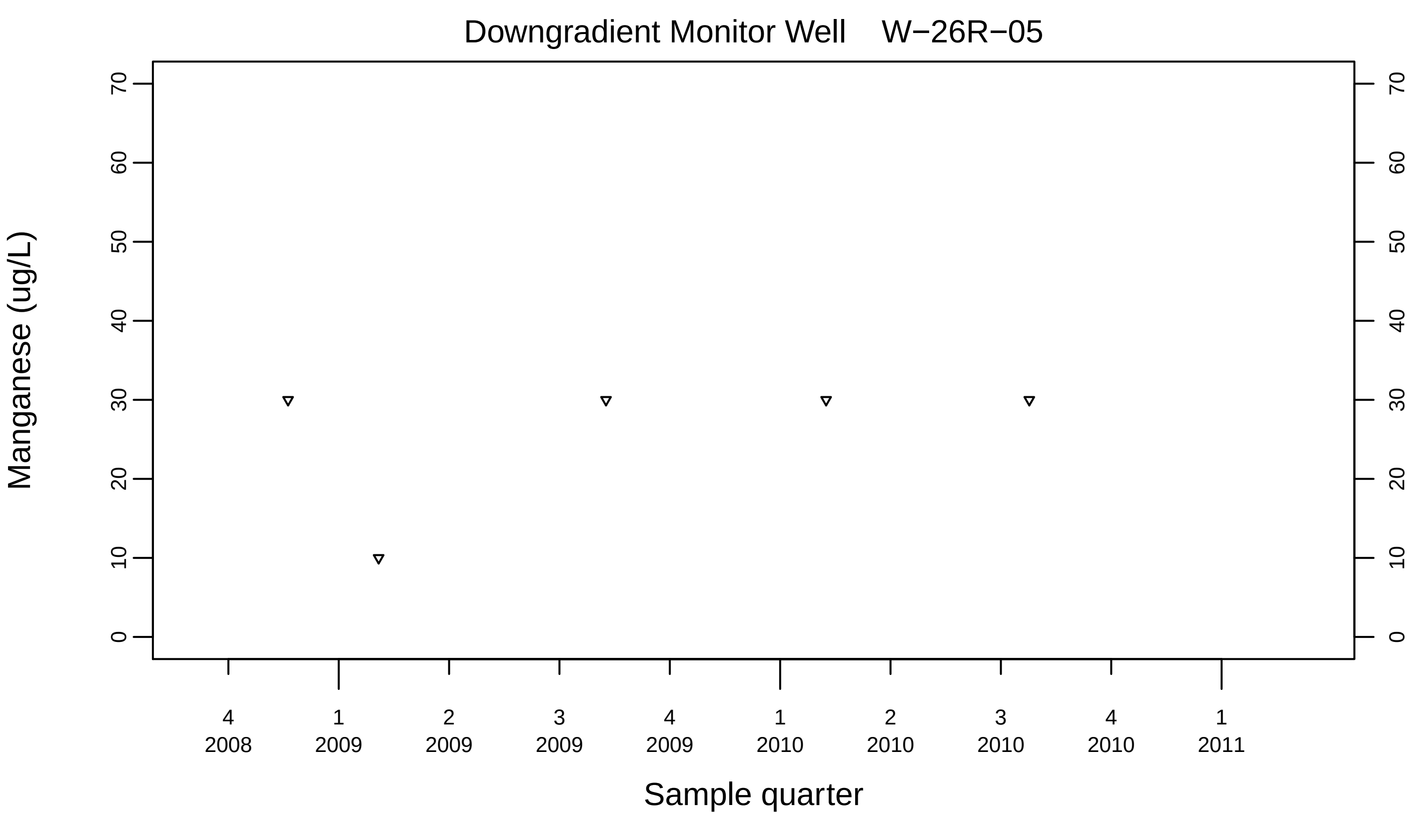
Sewage Ponds Ground Water
Manganese (ug/L)

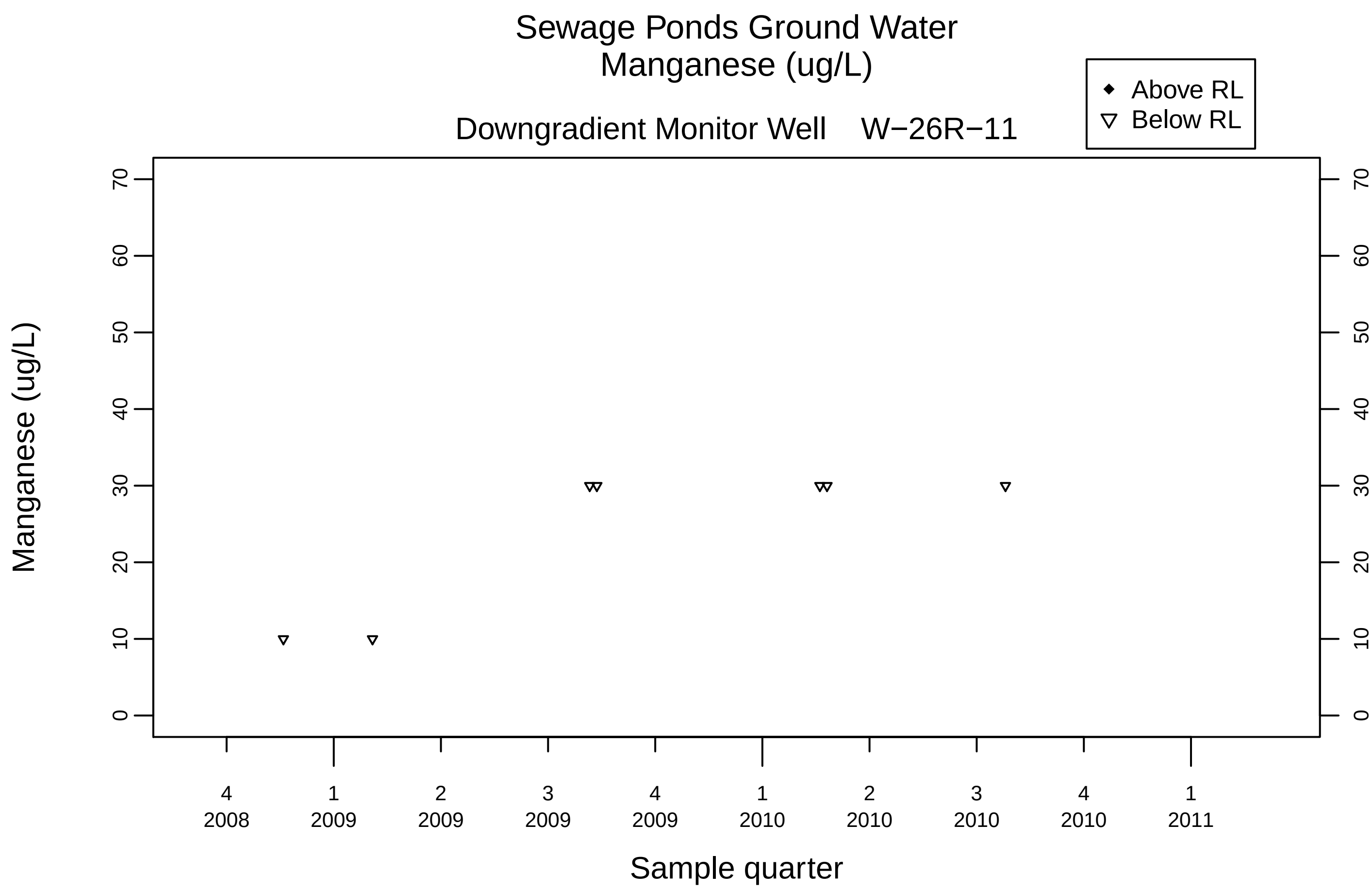


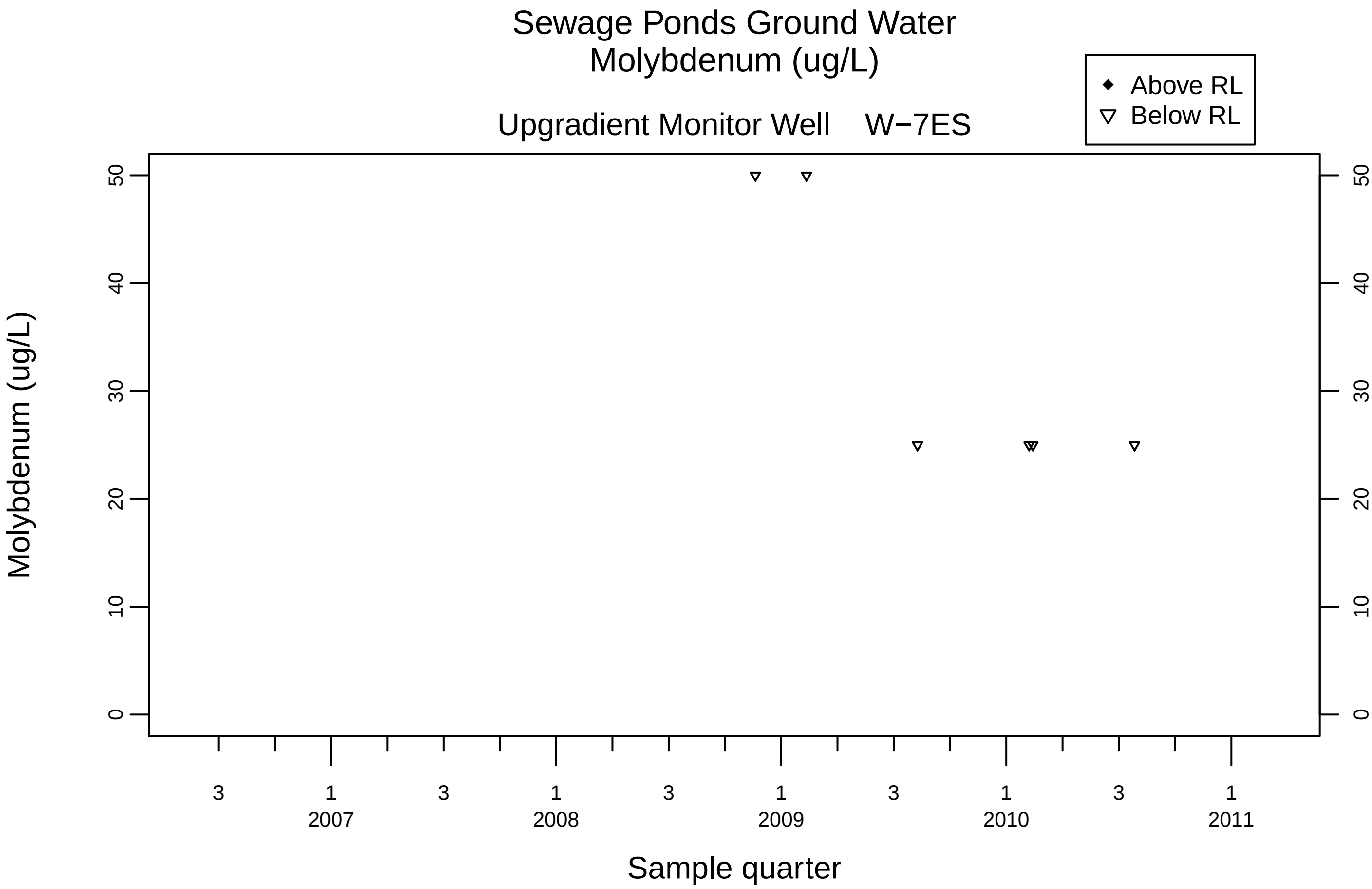


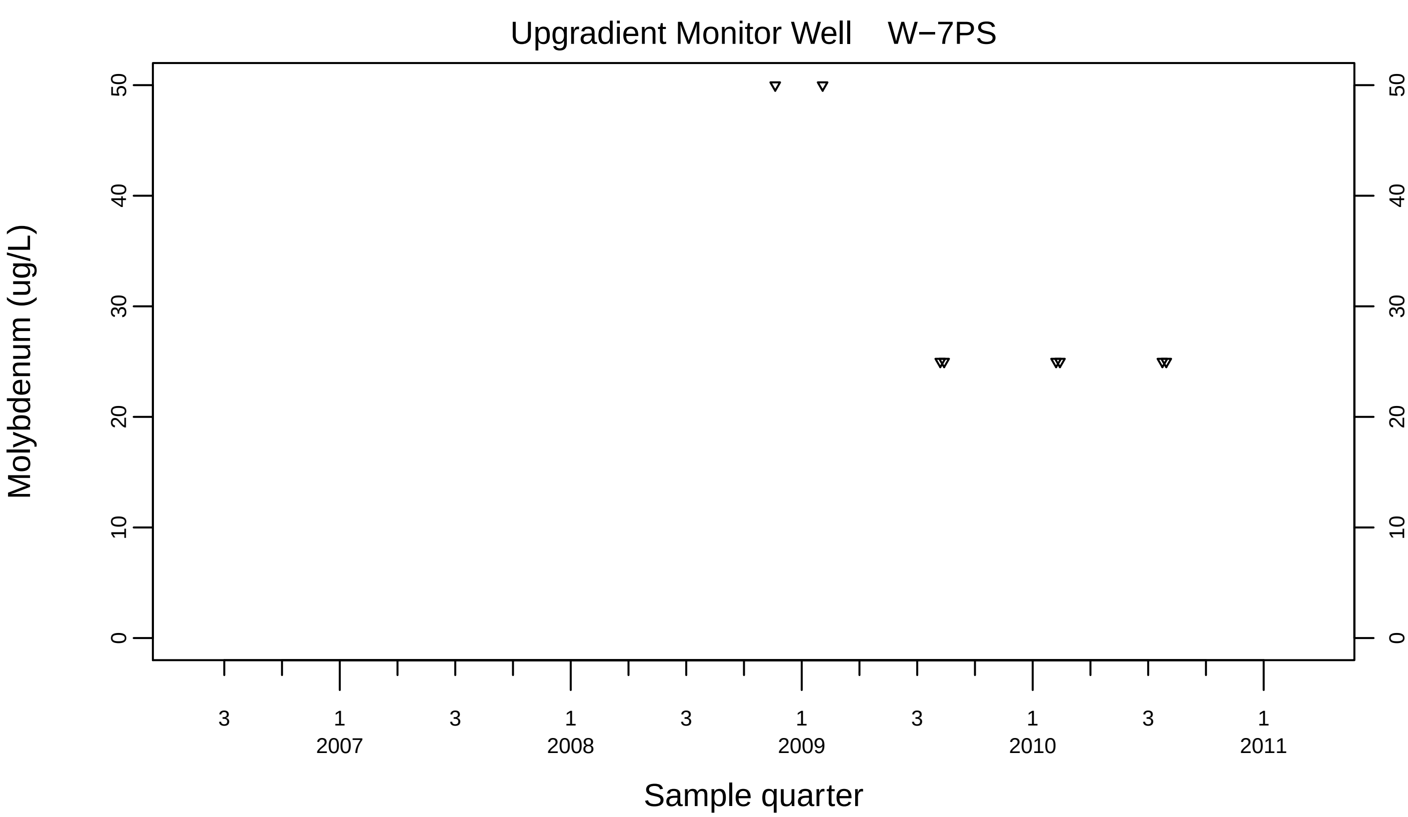
Sewage Ponds Ground Water
Manganese (ug/L)



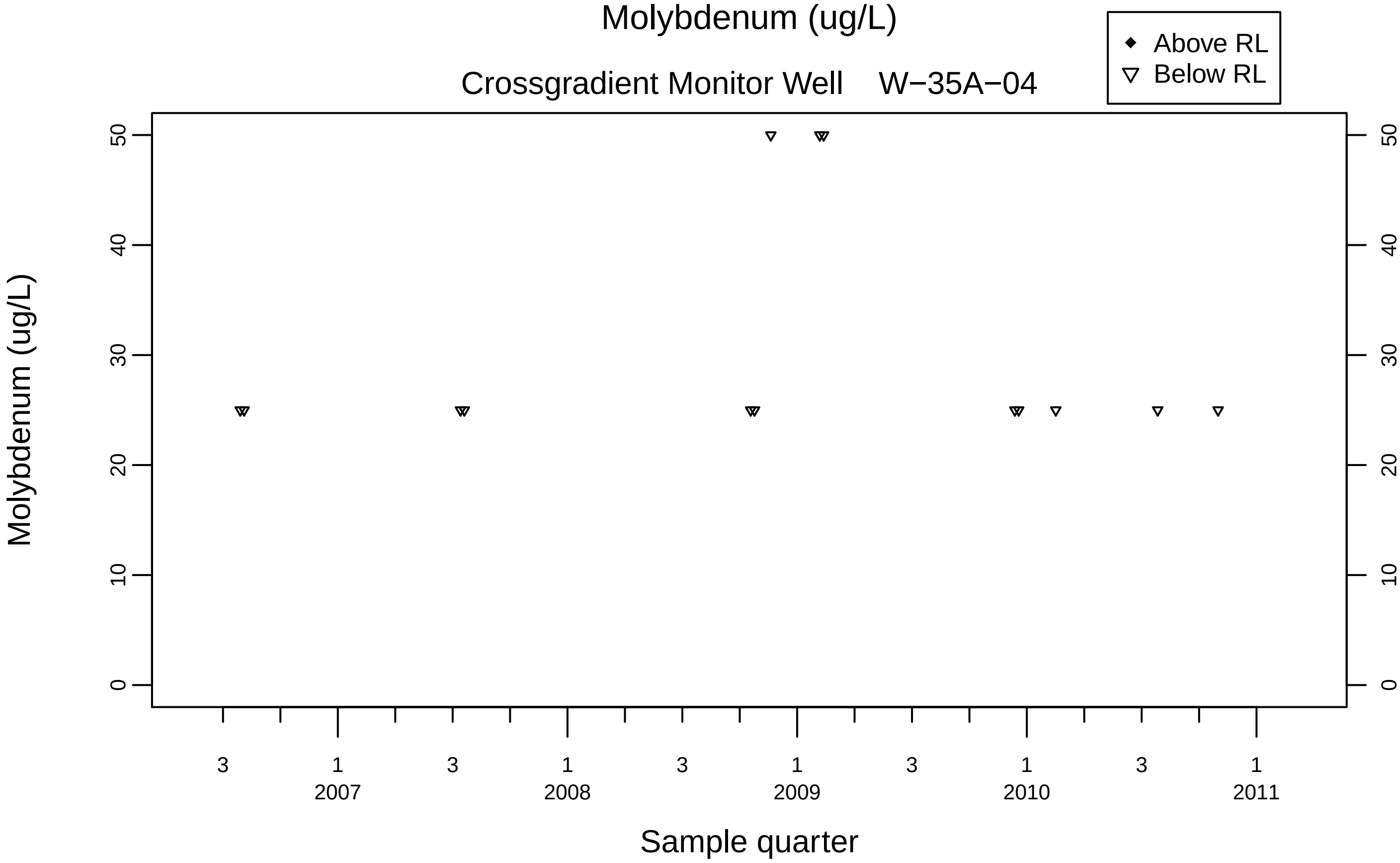


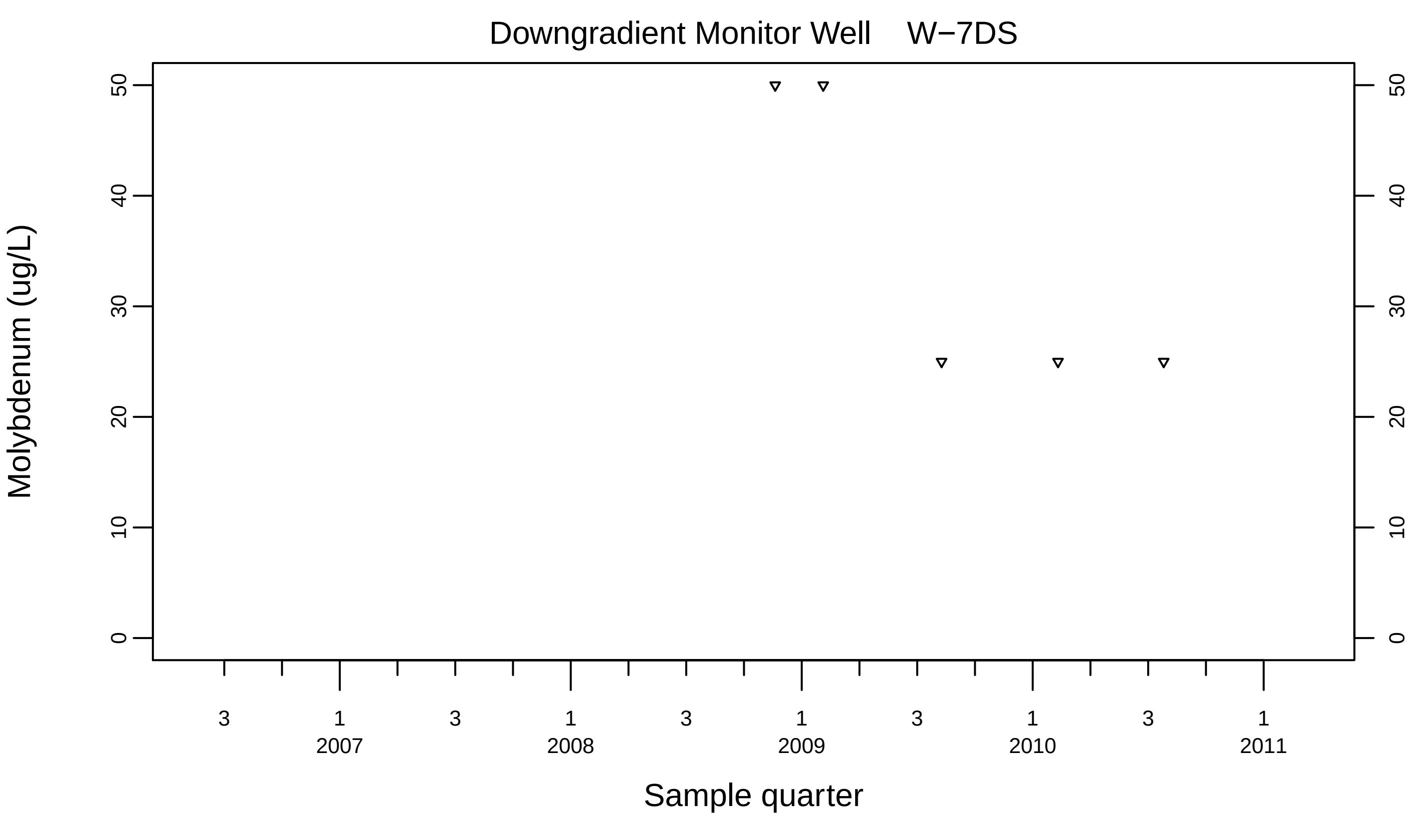

Sewage Ponds Ground Water
Manganese (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Manganese (ug/L)
0
10
20
30
40
50
60
70
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

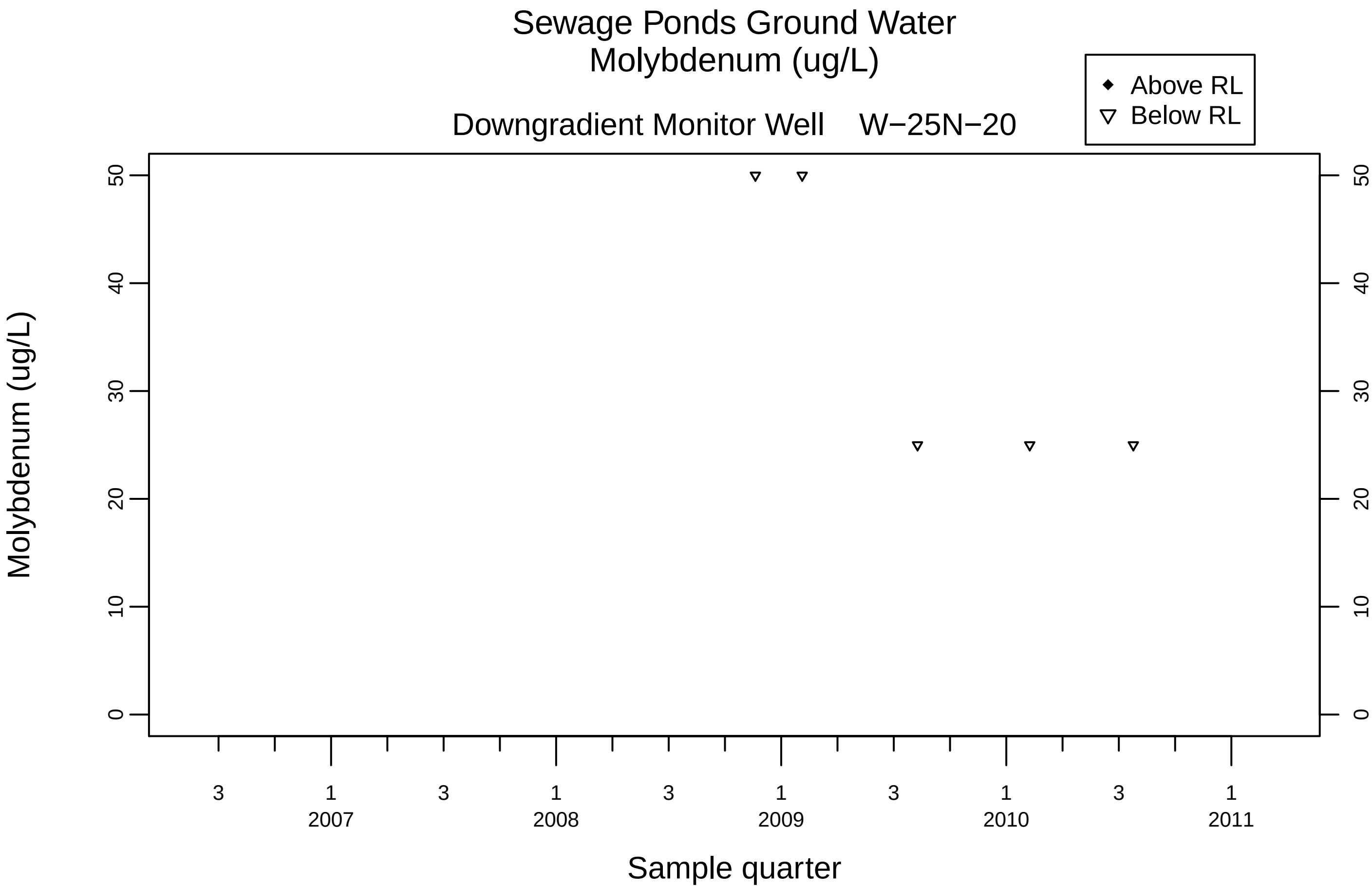

Sewage Ponds Ground Water
Molybdenum (ug/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

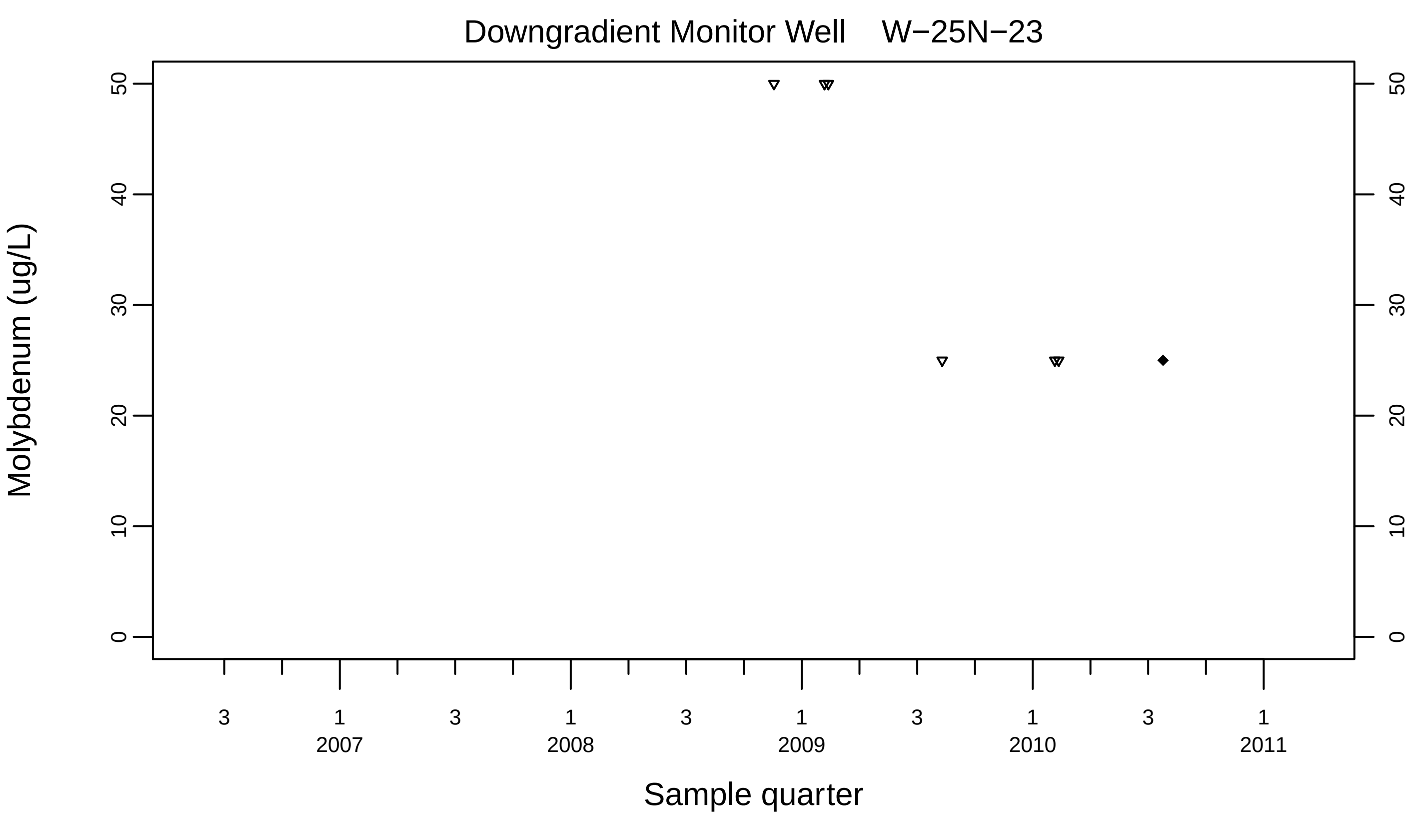

Upgradient Monitor Well W−7PS
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

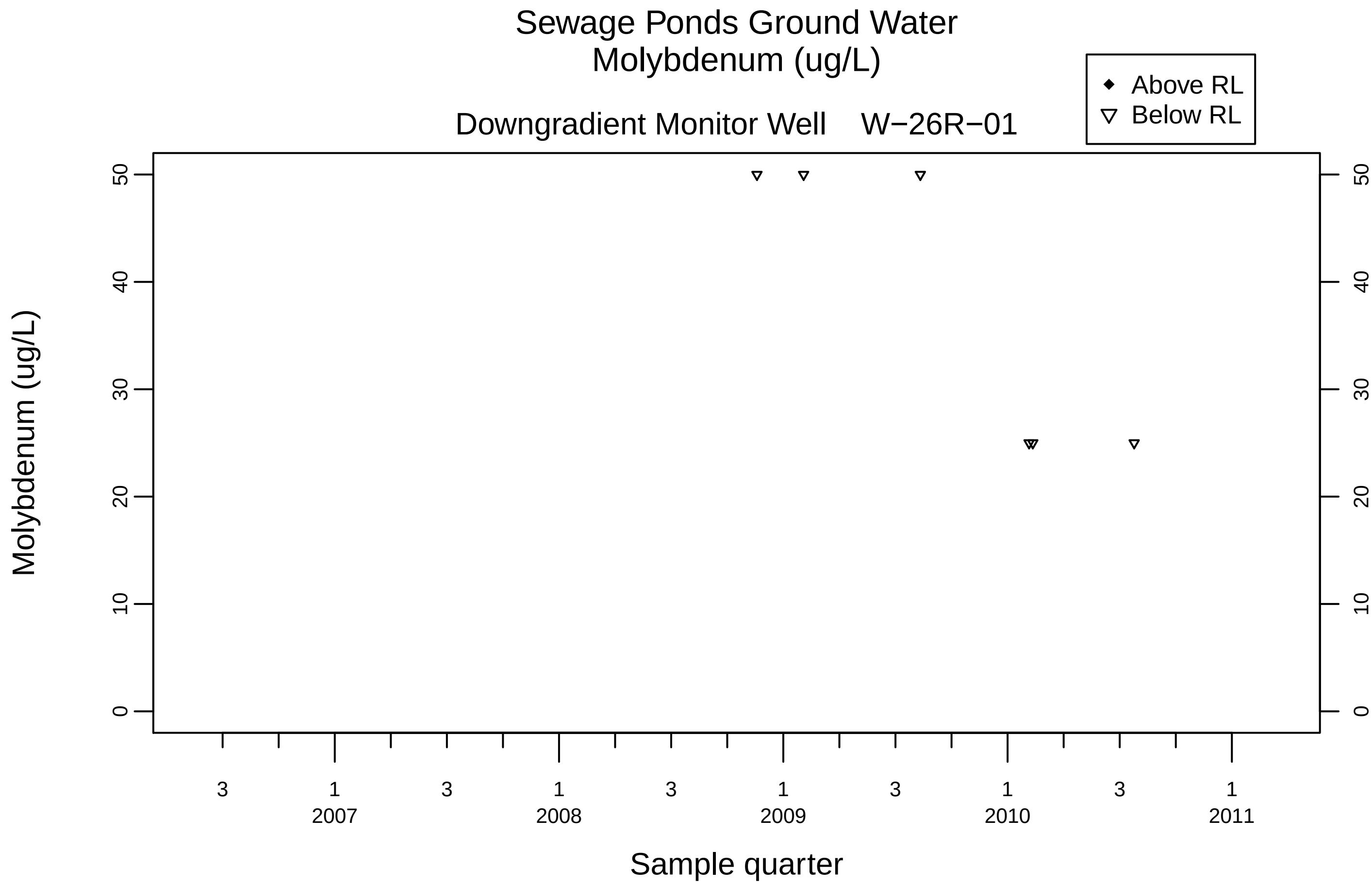
Sewage Ponds Ground Water
Molybdenum (ug/L)

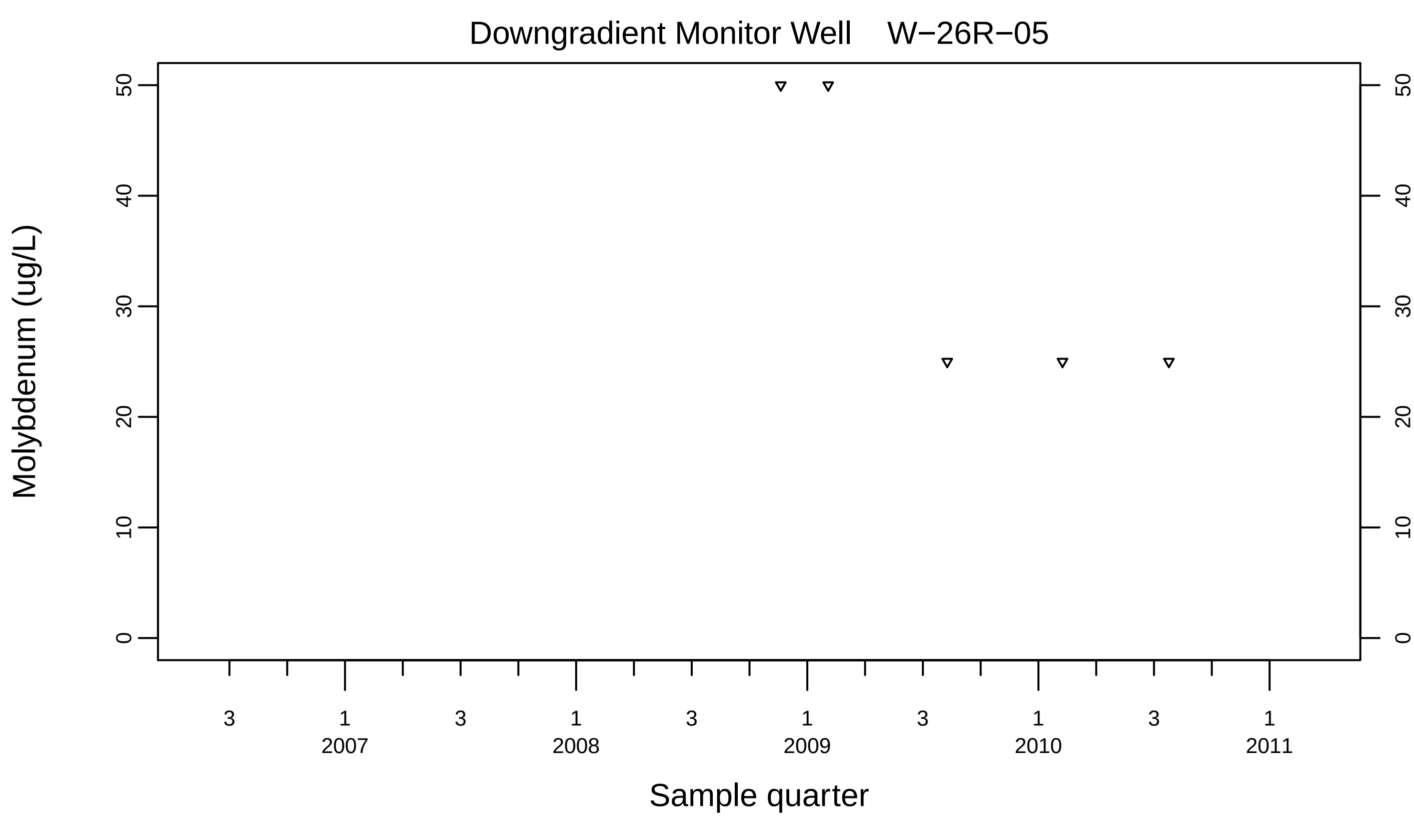


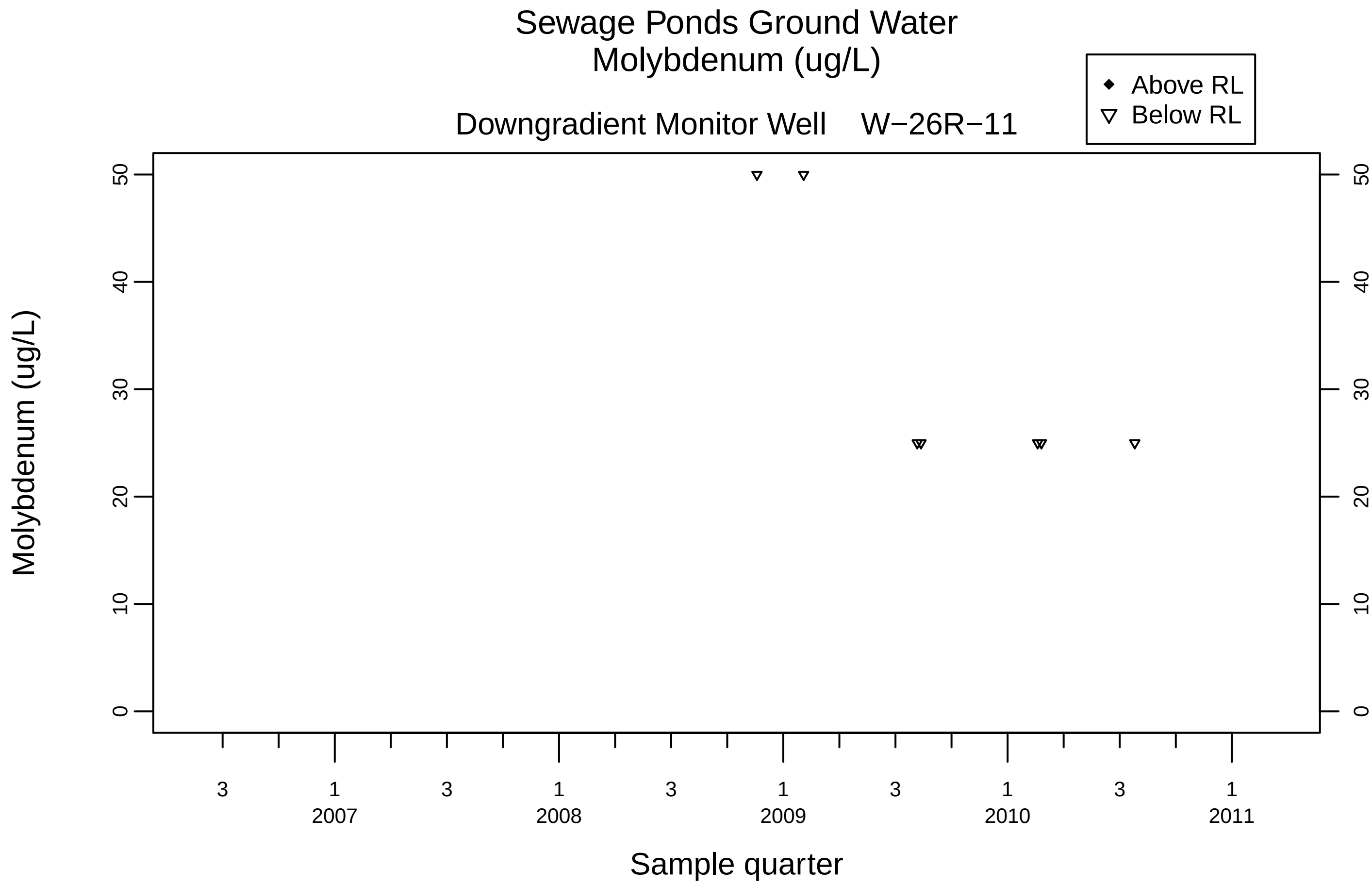



Sewage Ponds Ground Water
Molybdenum (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

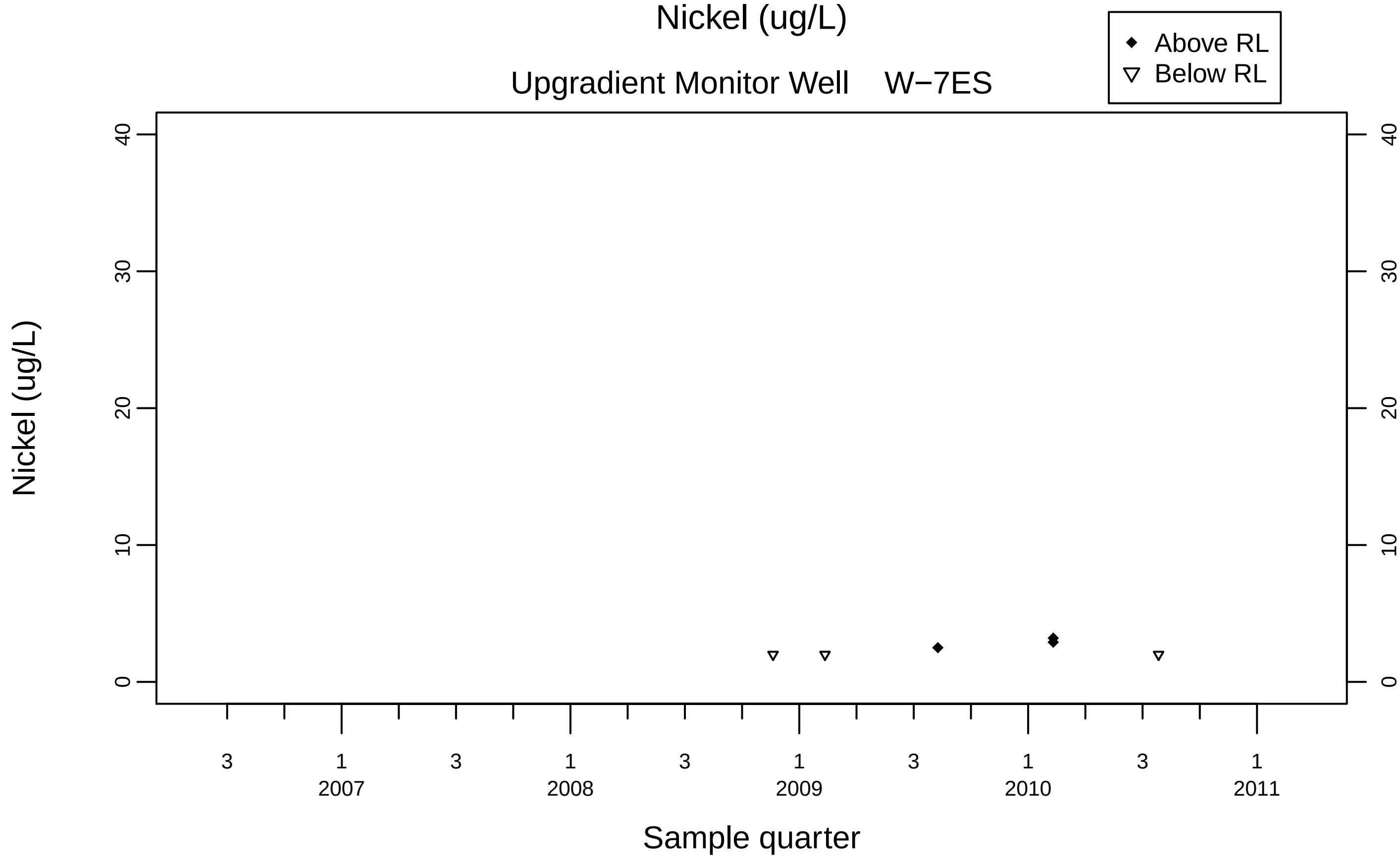

Downgradient Monitor Well W−25N−23
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

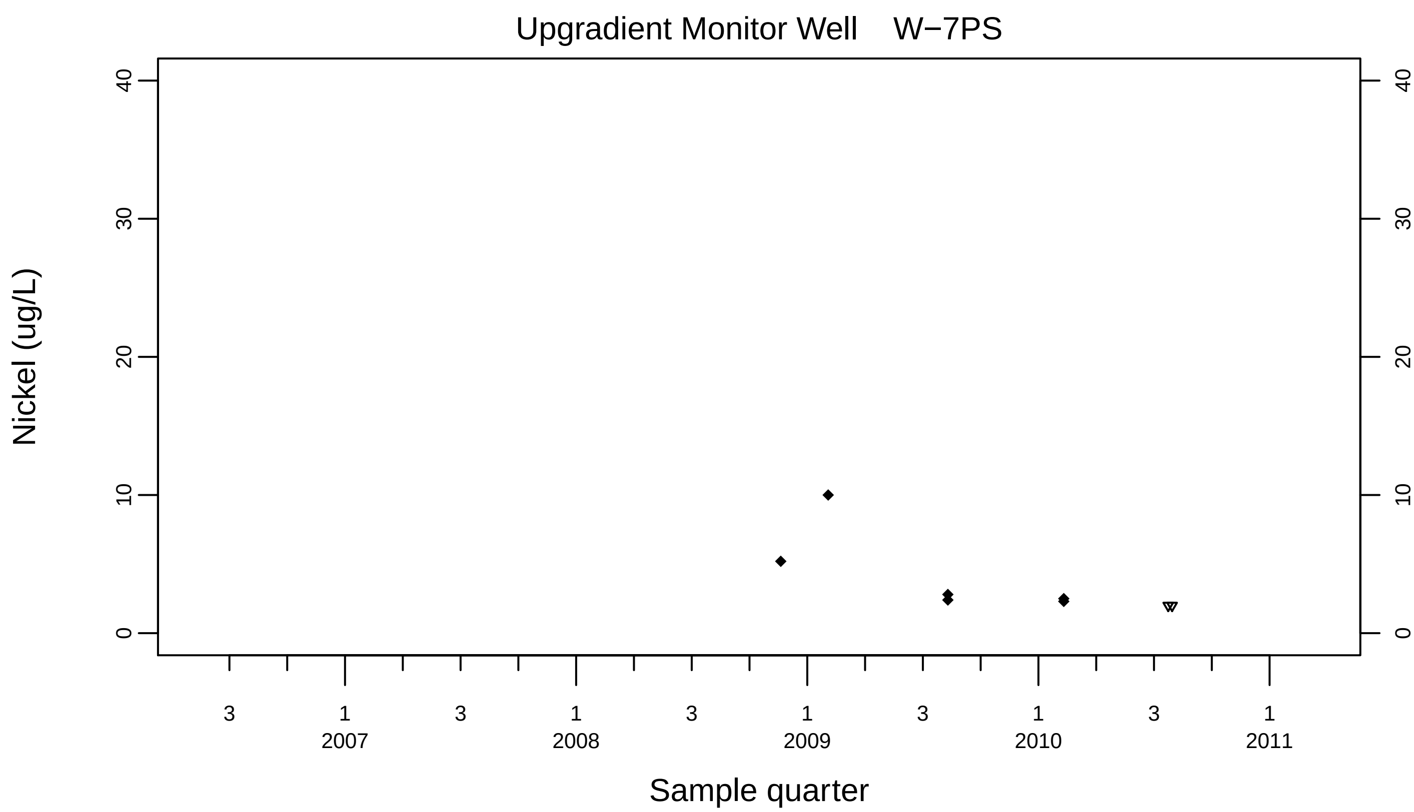

Sewage Ponds Ground Water
Molybdenum (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter


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

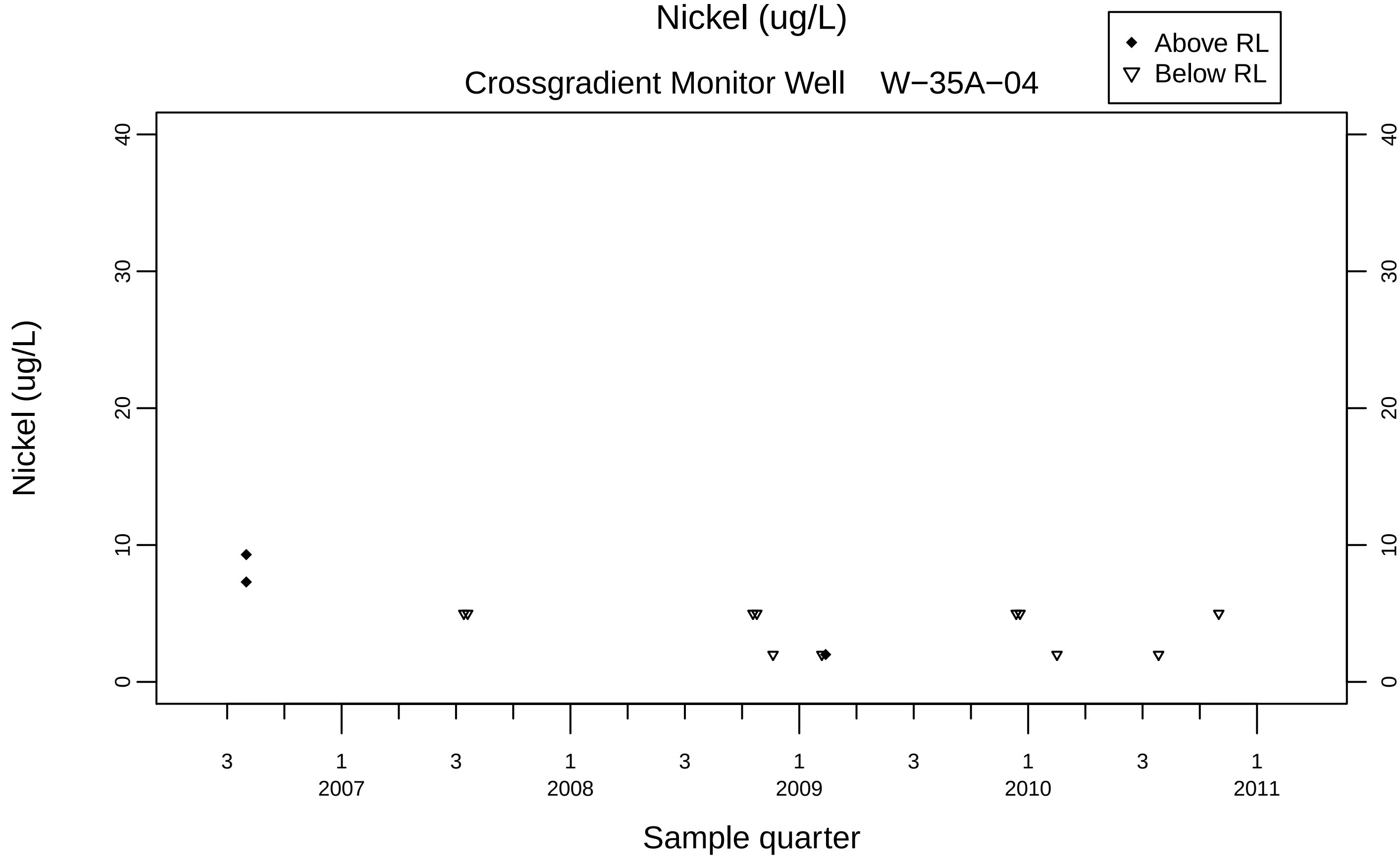

Sewage Ponds Ground Water
Molybdenum (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Molybdenum (ug/L)
0
10
20
30
40
50
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

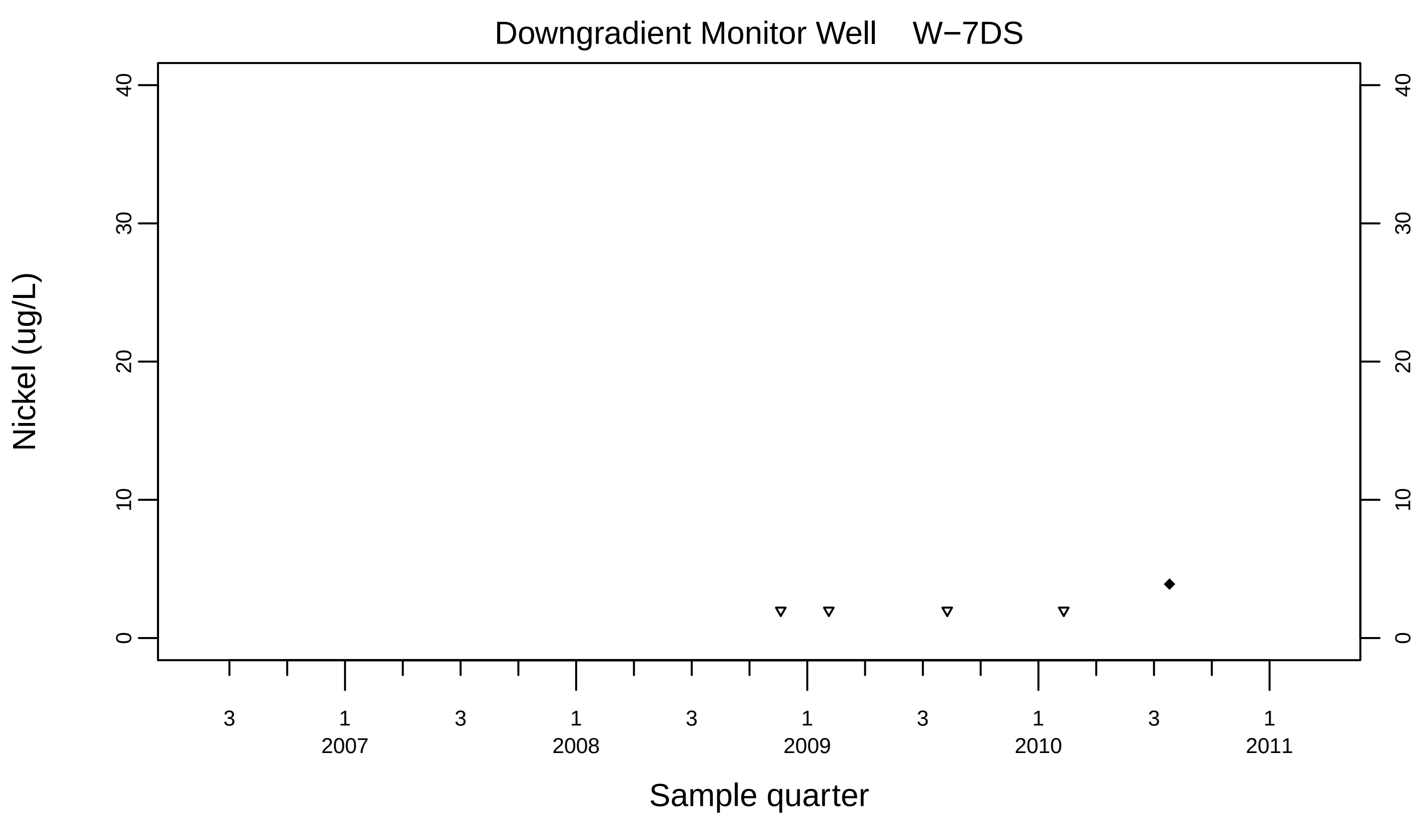
Sewage Ponds Ground Water
Nickel (ug/L)



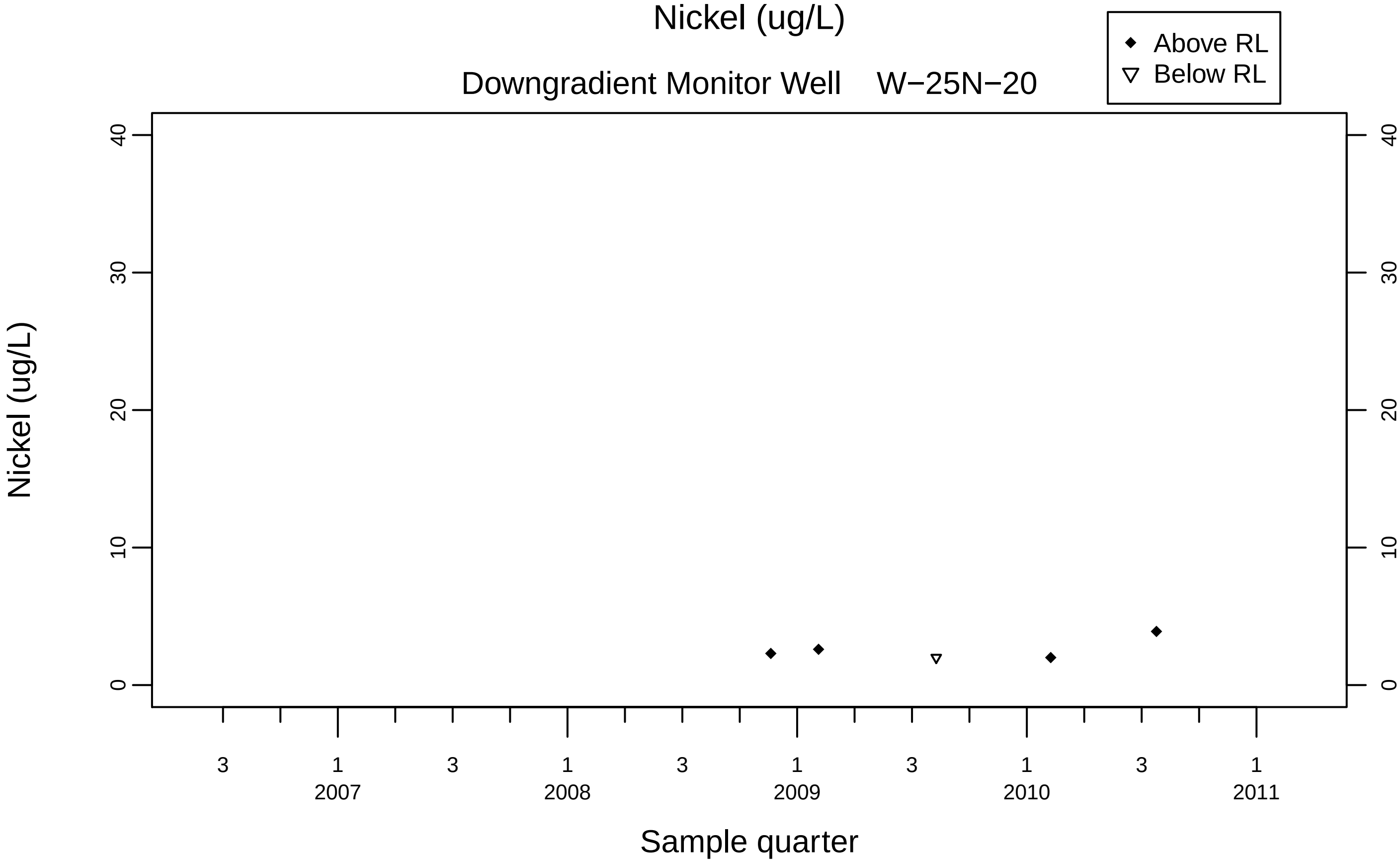


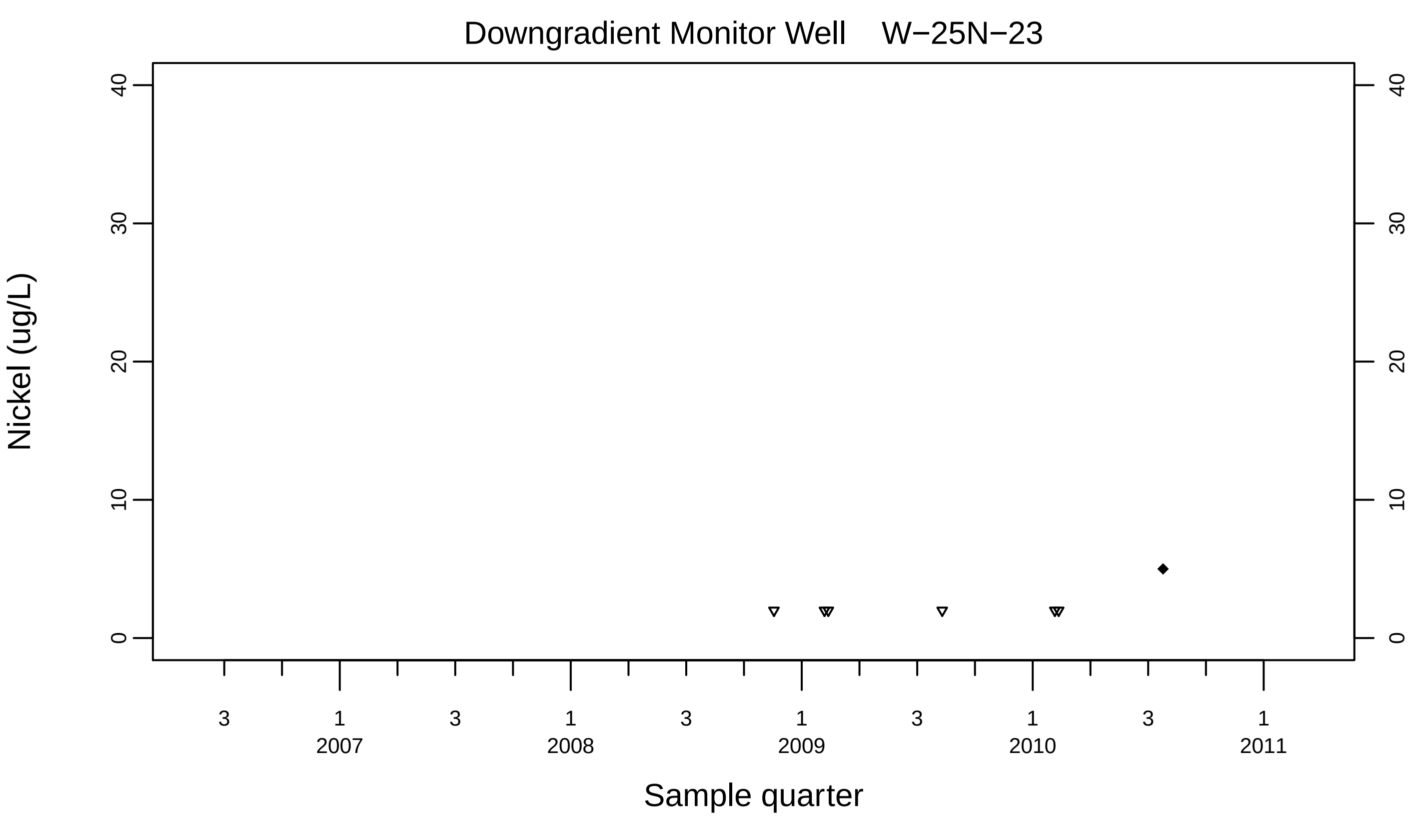
Sewage Ponds Ground Water
Nickel (ug/L)

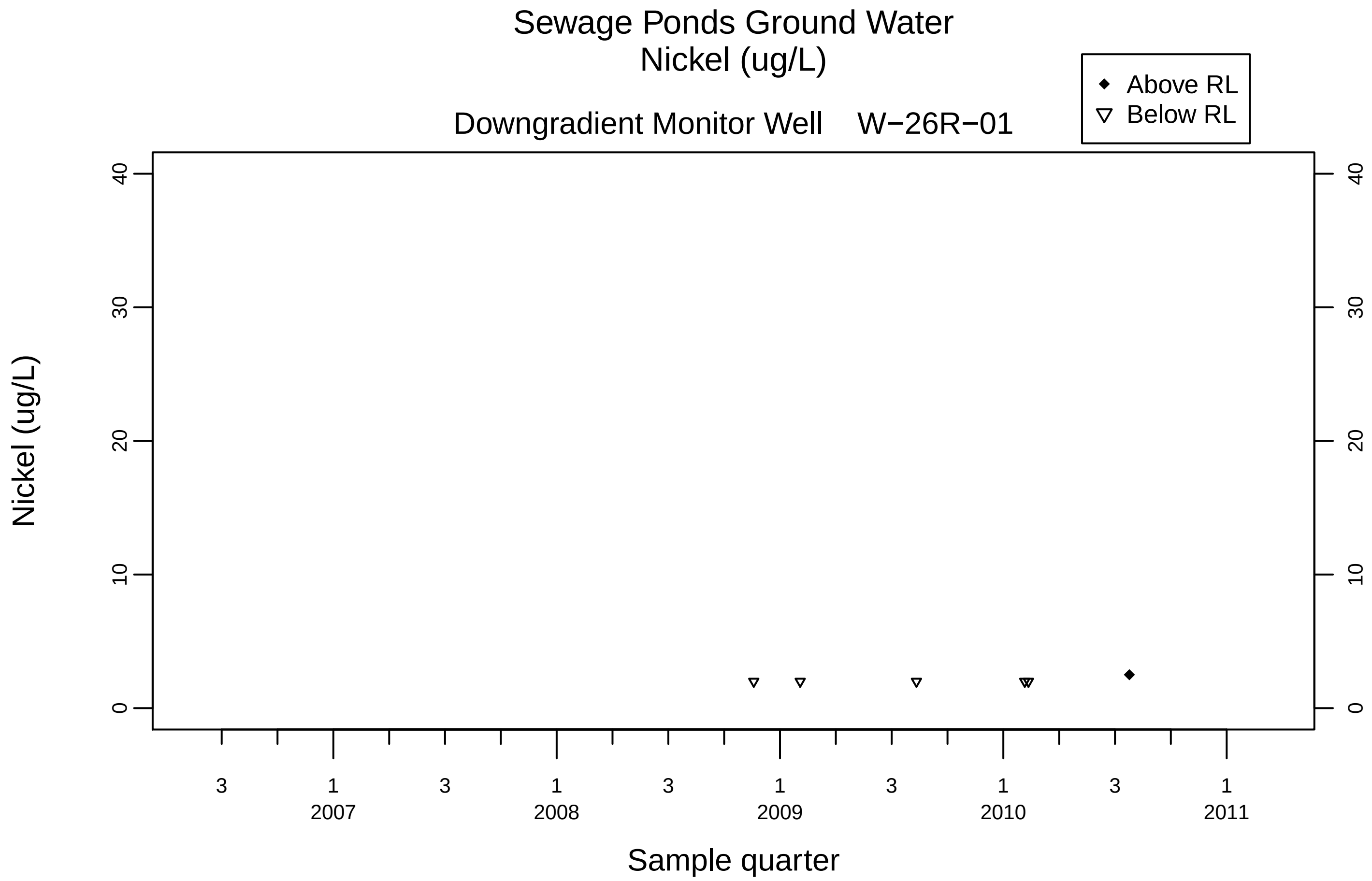


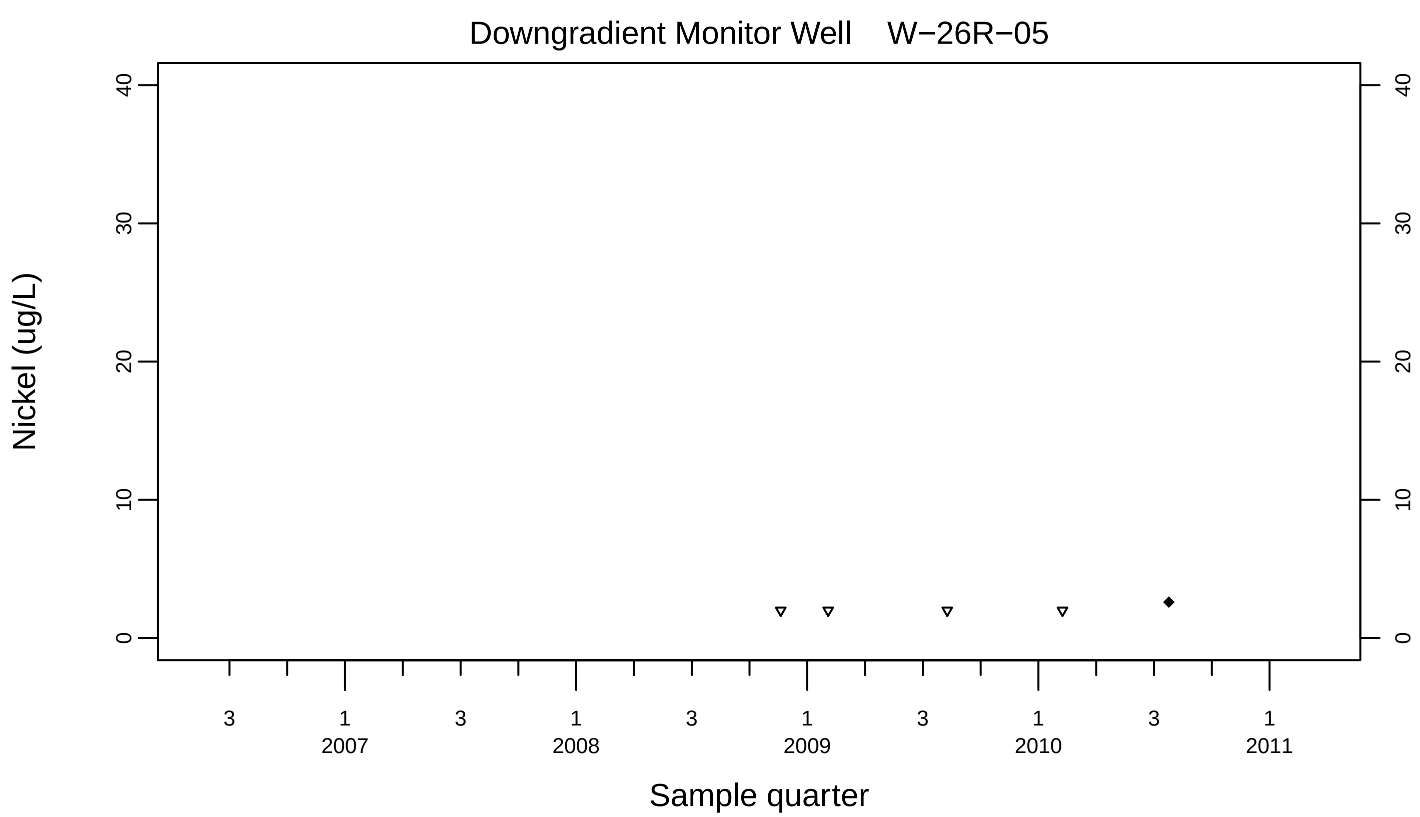


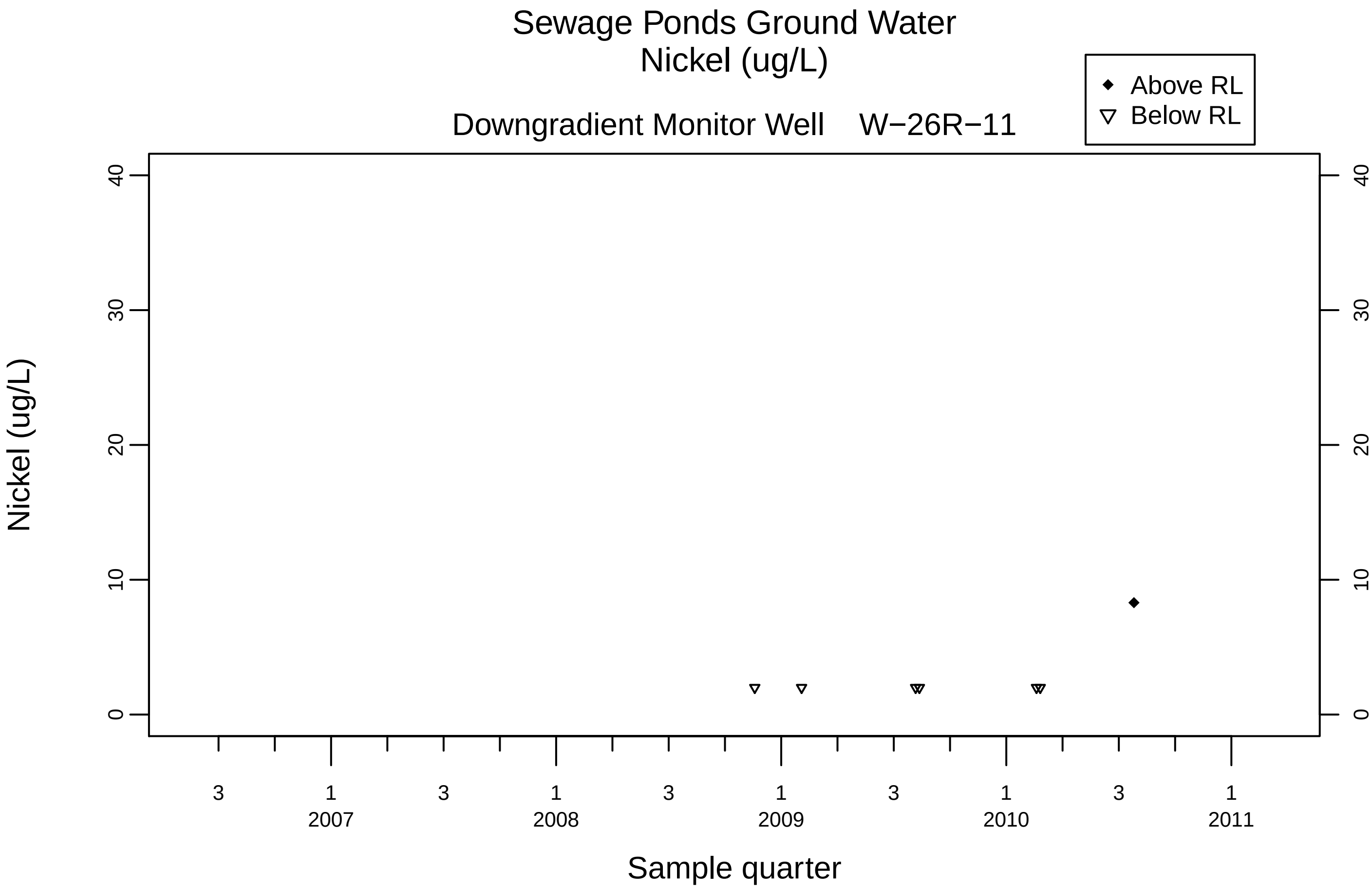
Sewage Ponds Ground Water
Nickel (ug/L)

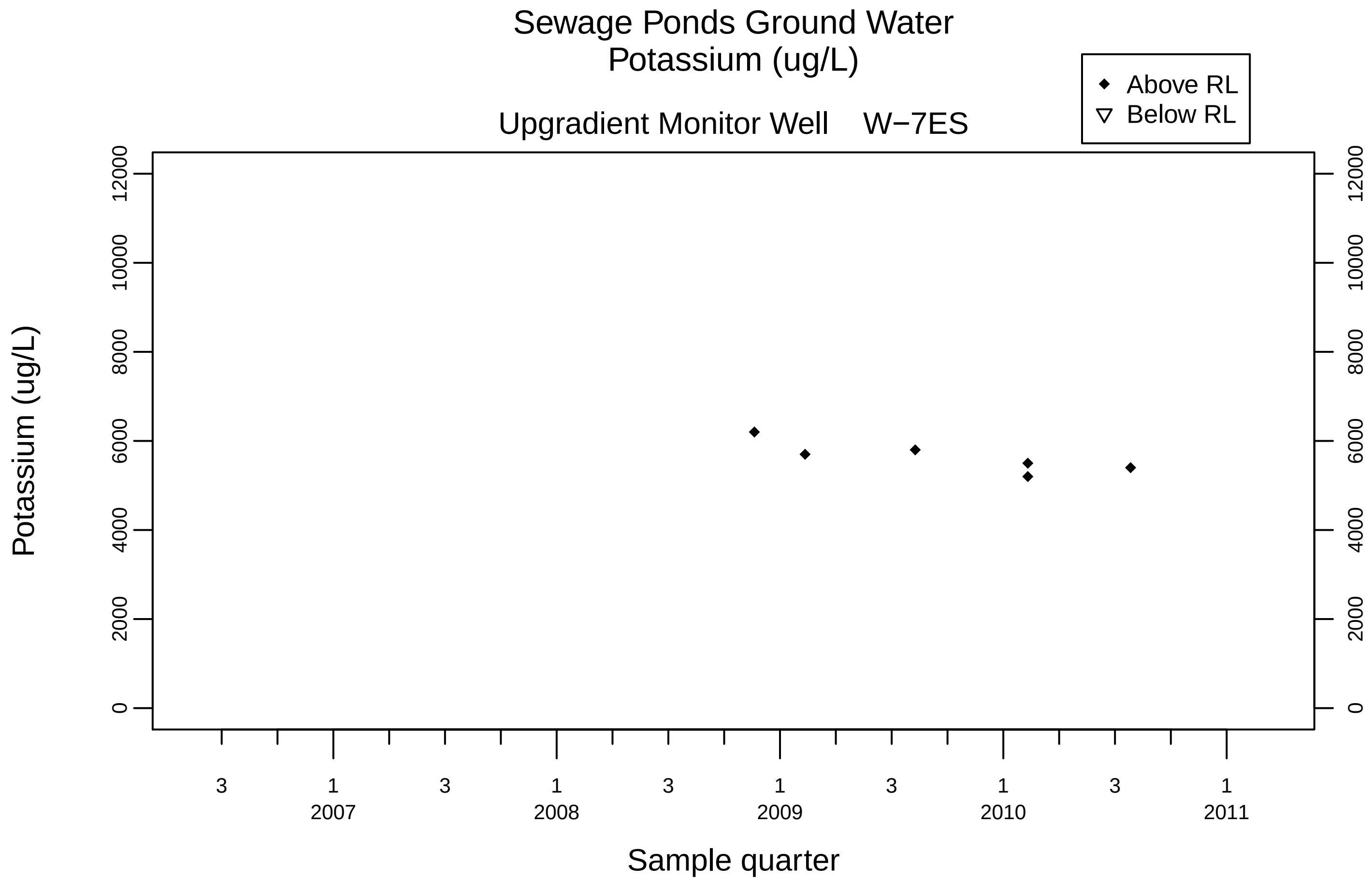


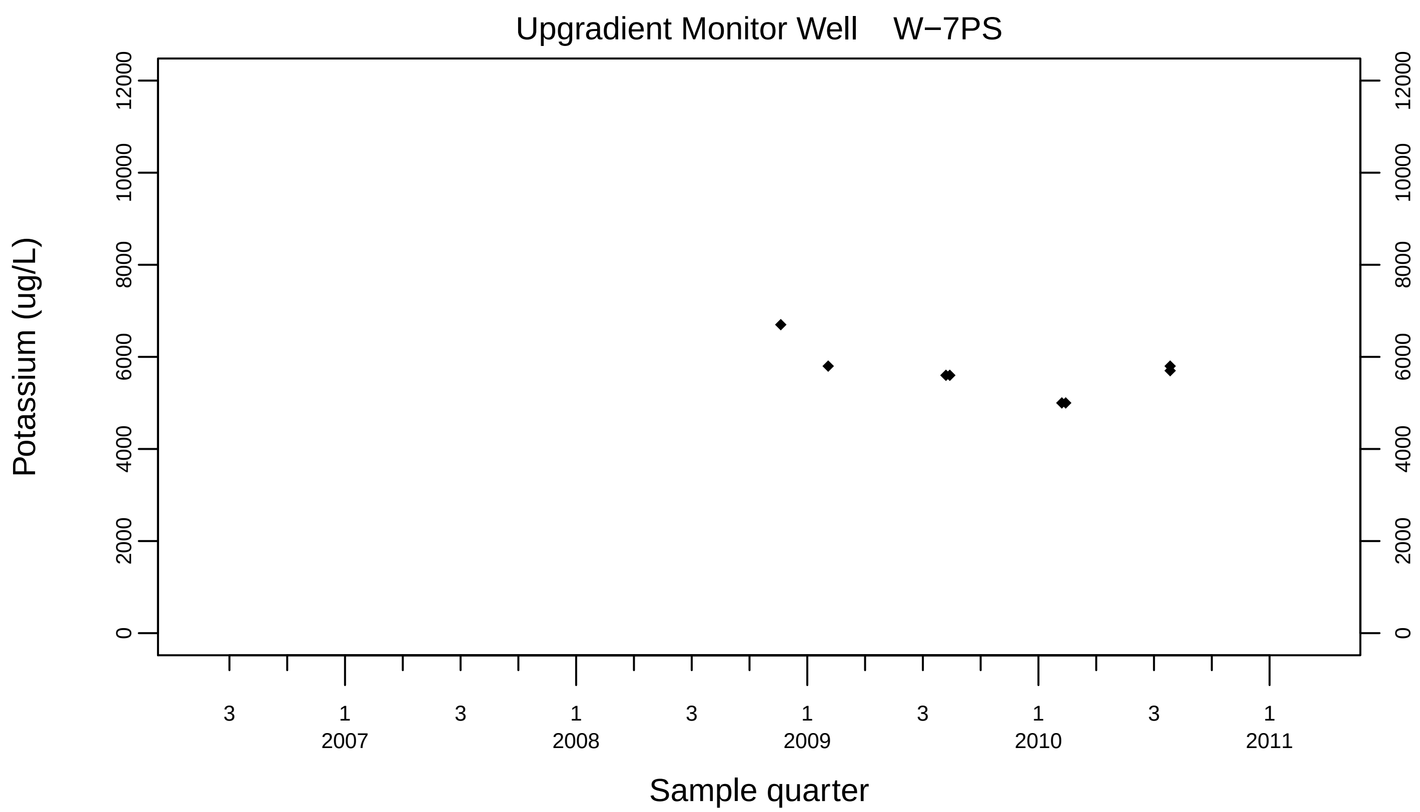



Sewage Ponds Ground Water
Nickel (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Nickel (ug/L)
0
10
20
30
40
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

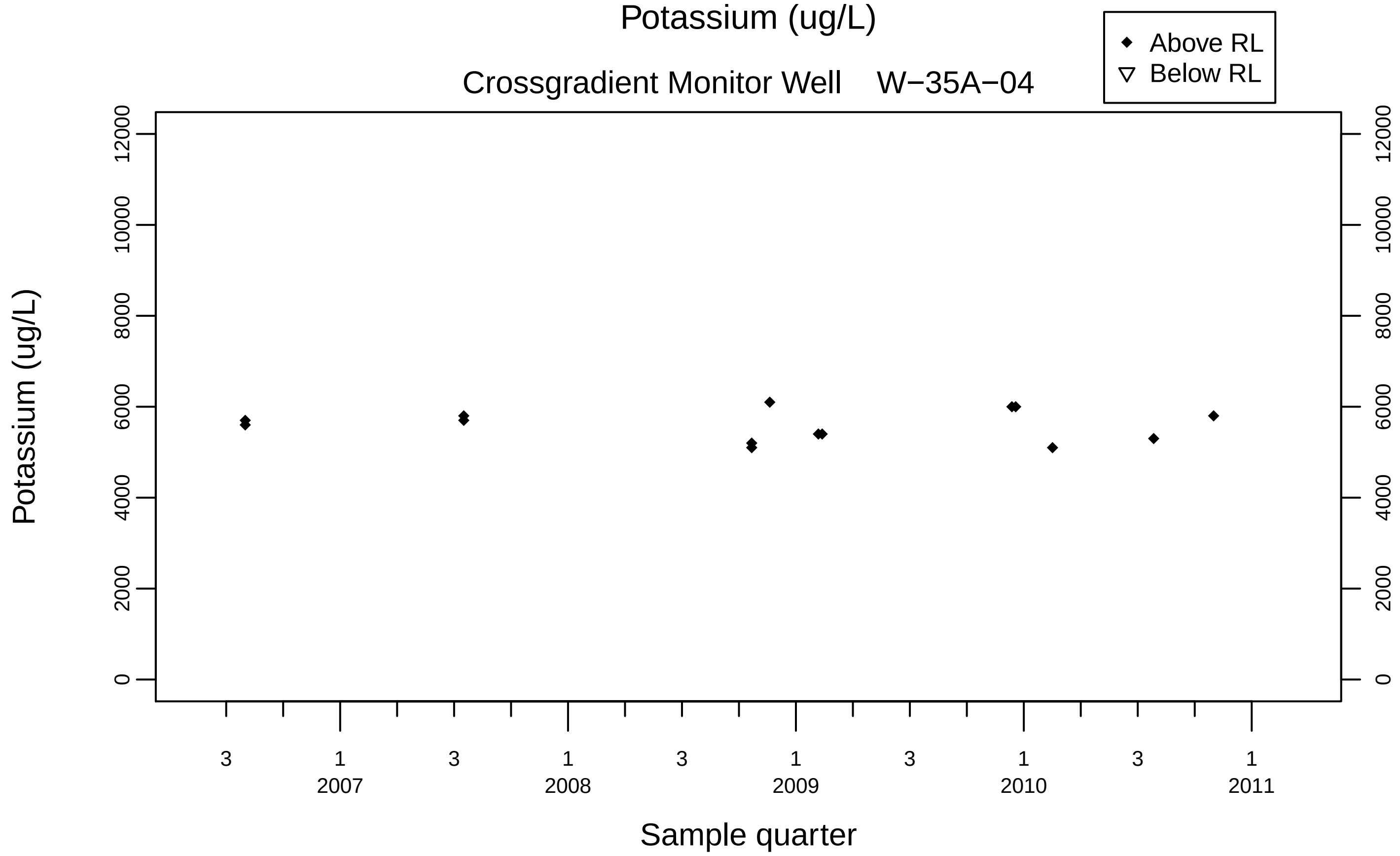

Downgradient Monitor Well W−26R−05
Nickel (ug/L)
0
10
20
30
40
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

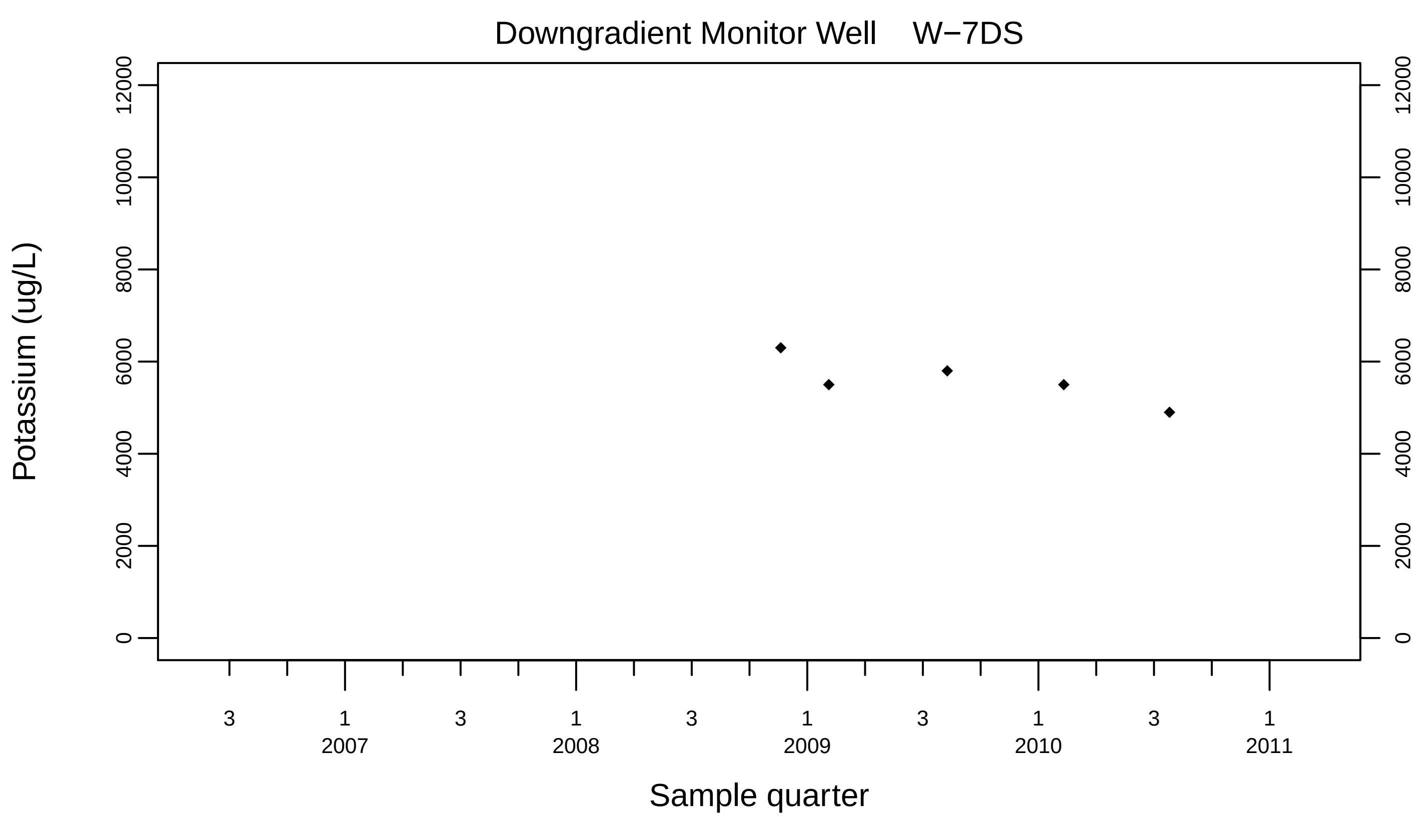

Sewage Ponds Ground Water
Nickel (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Nickel (ug/L)
0
10
20
30
40
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter


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
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

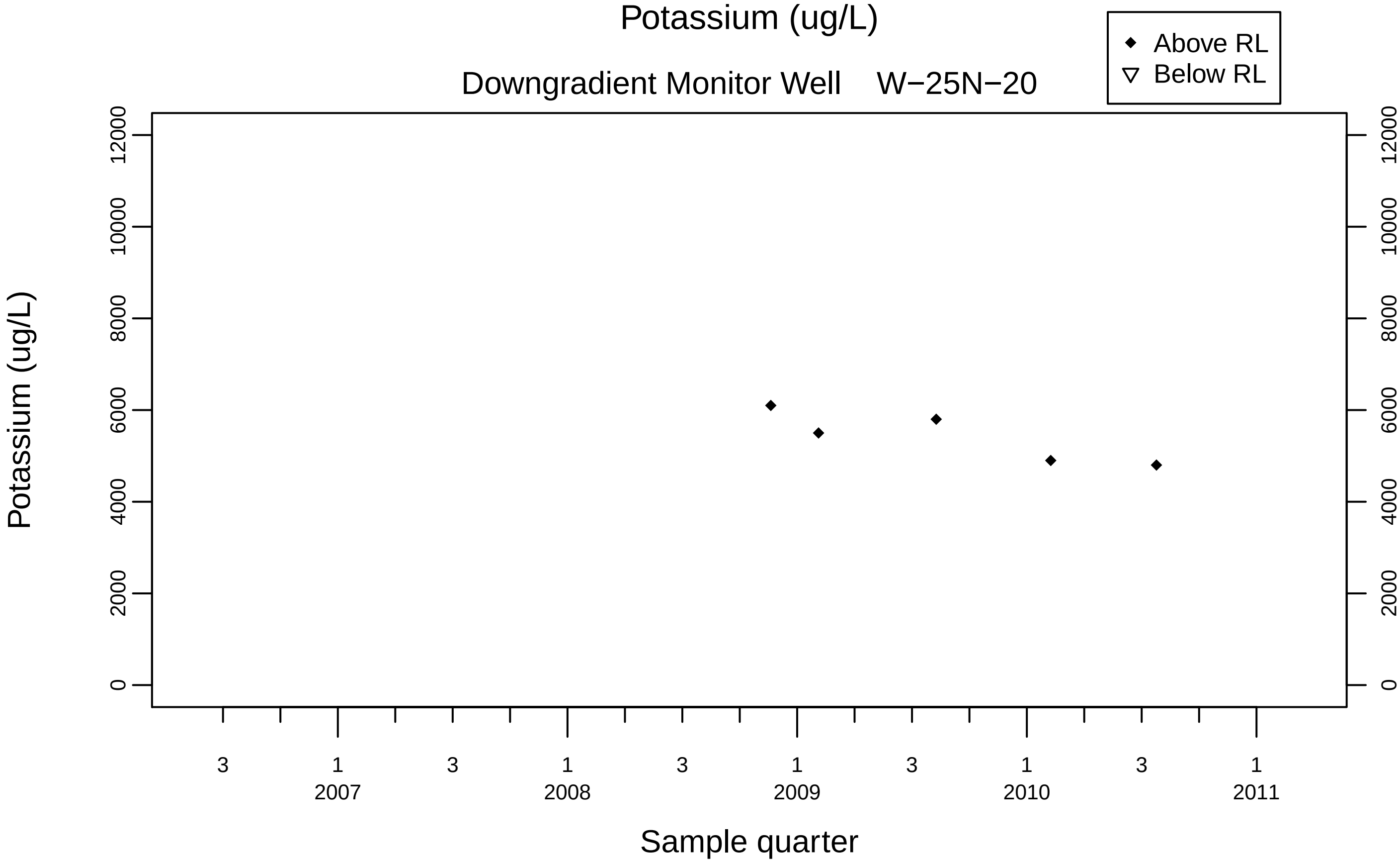

Upgradient Monitor Well W−7PS
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

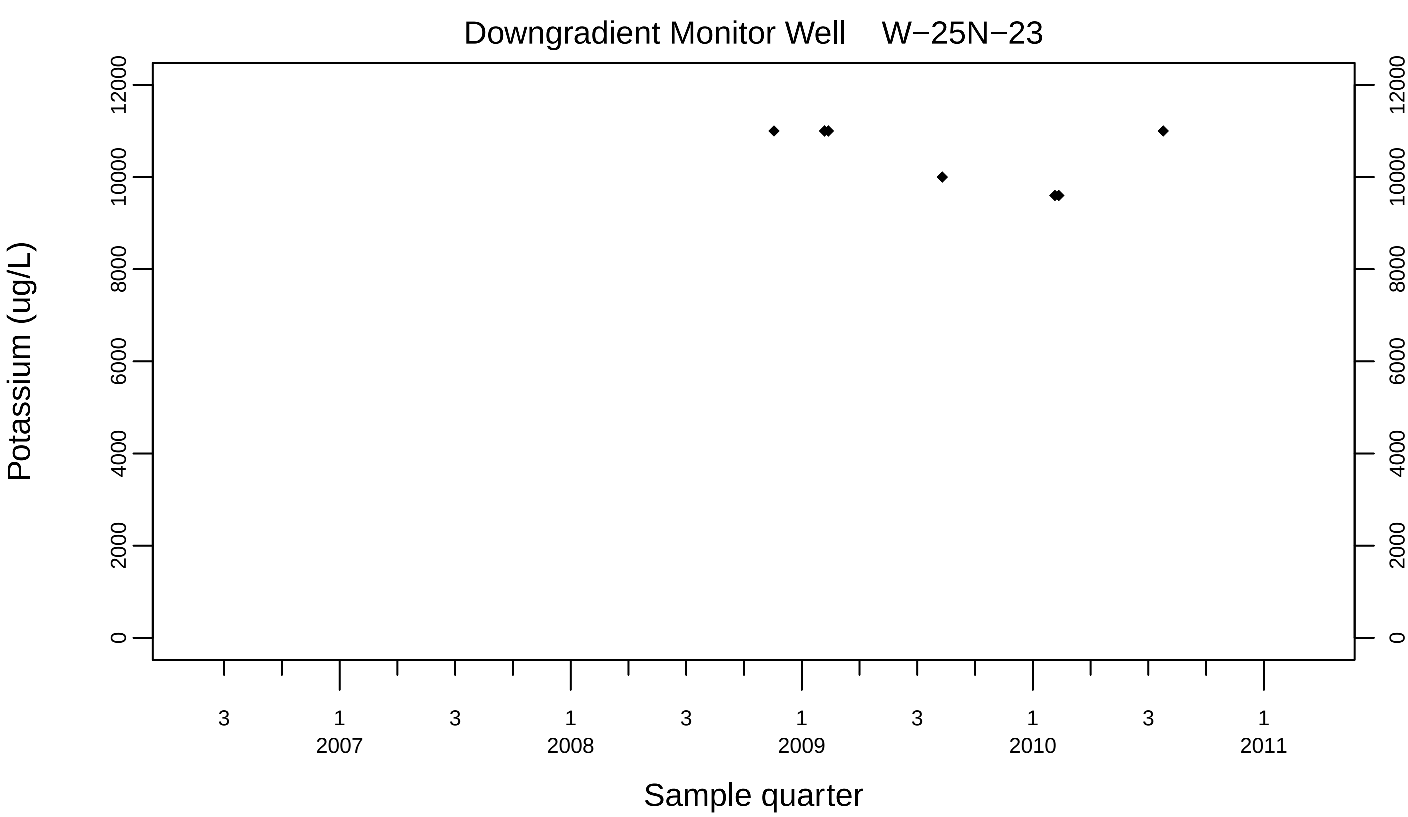
Sewage Ponds Ground Water
Potassium (ug/L)



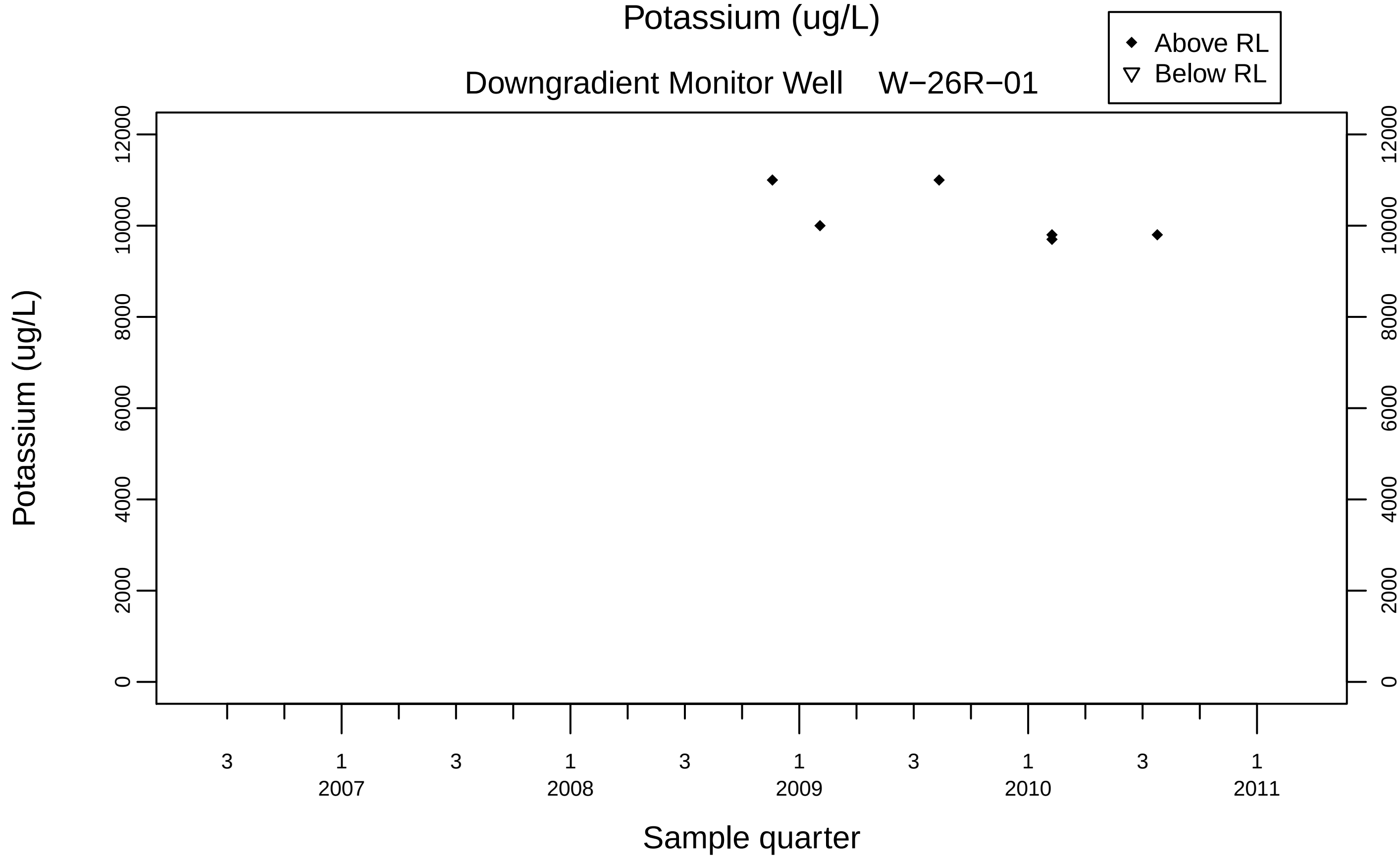


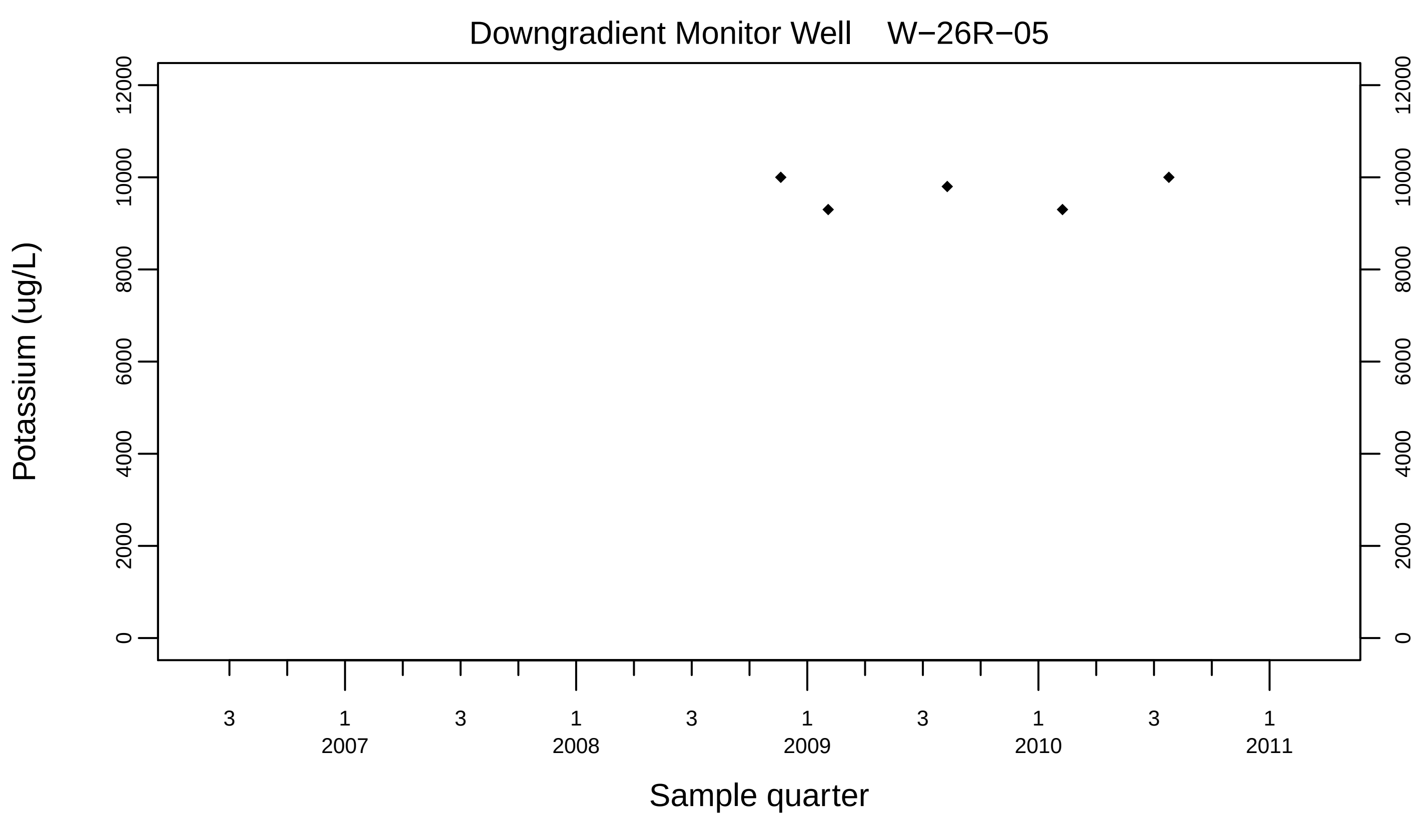
Sewage Ponds Ground Water
Potassium (ug/L)

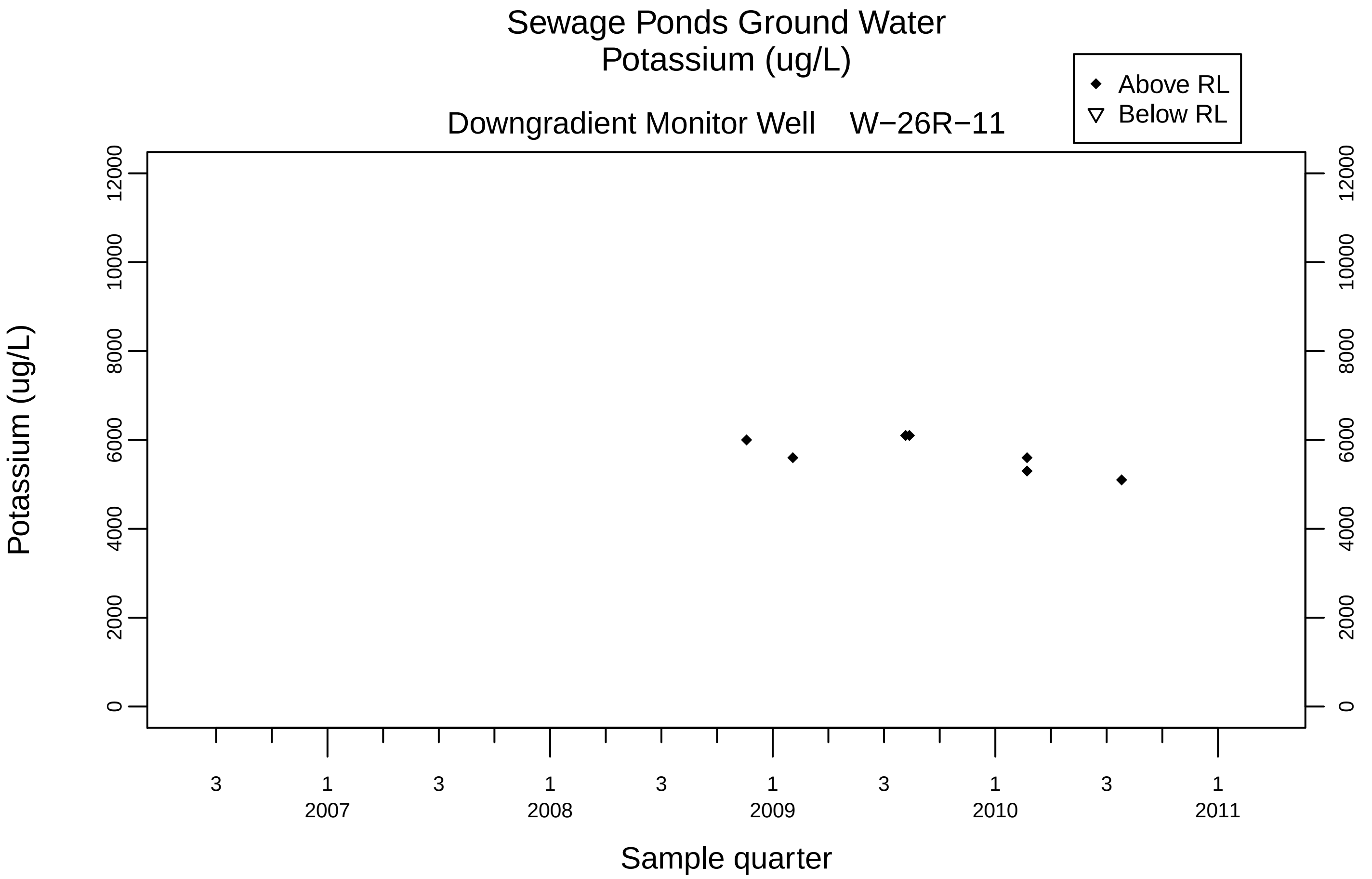




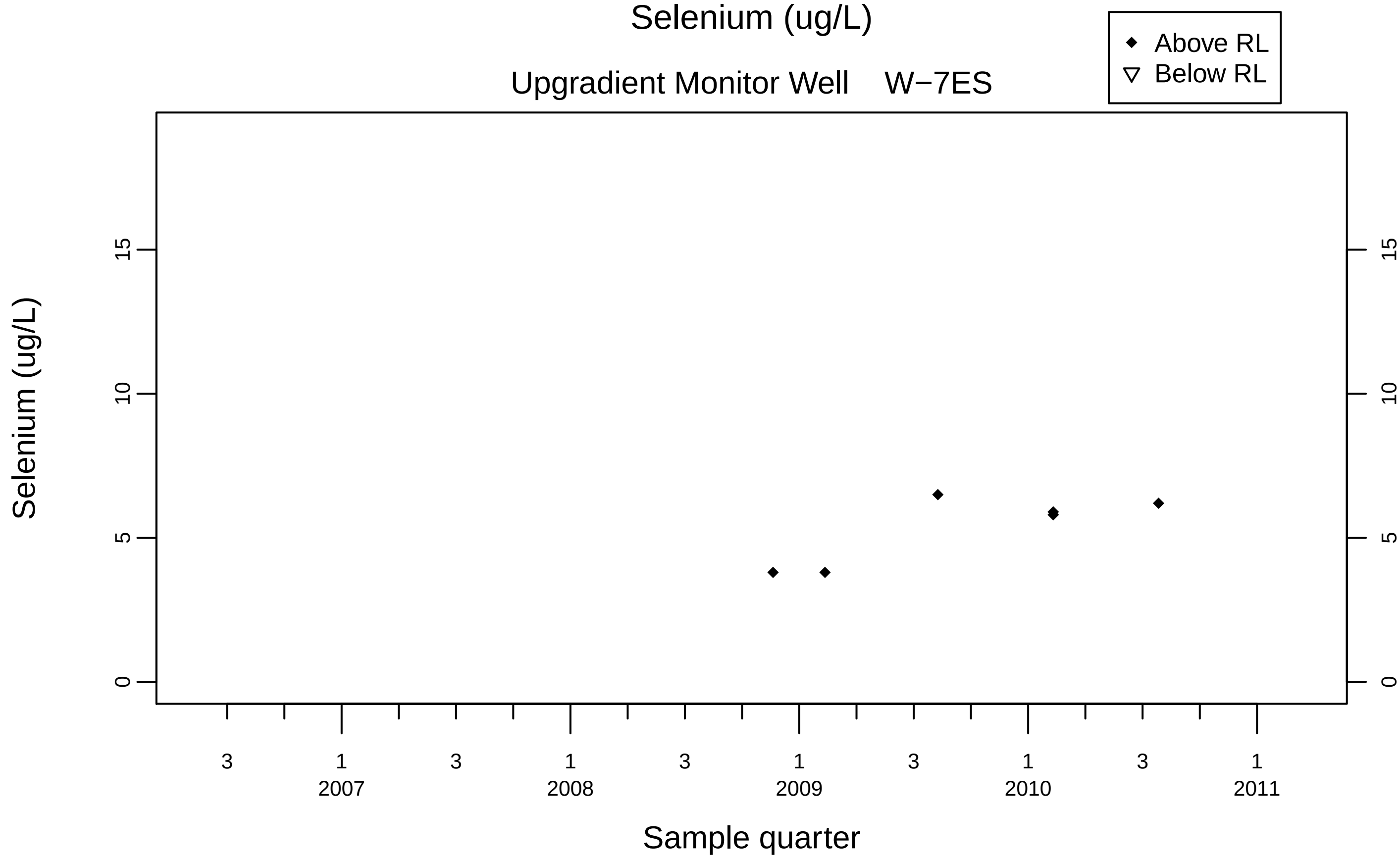
Sewage Ponds Ground Water
Potassium (ug/L)

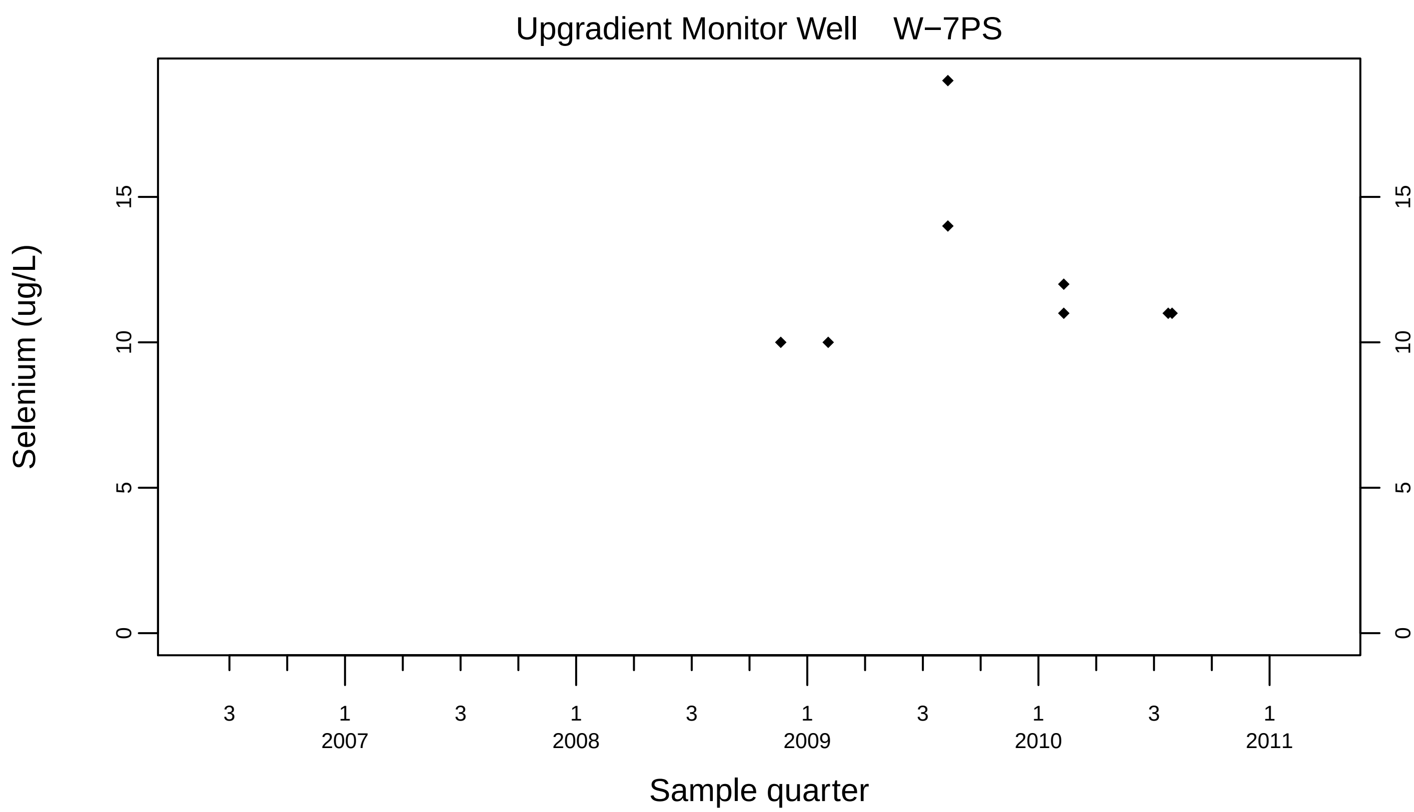


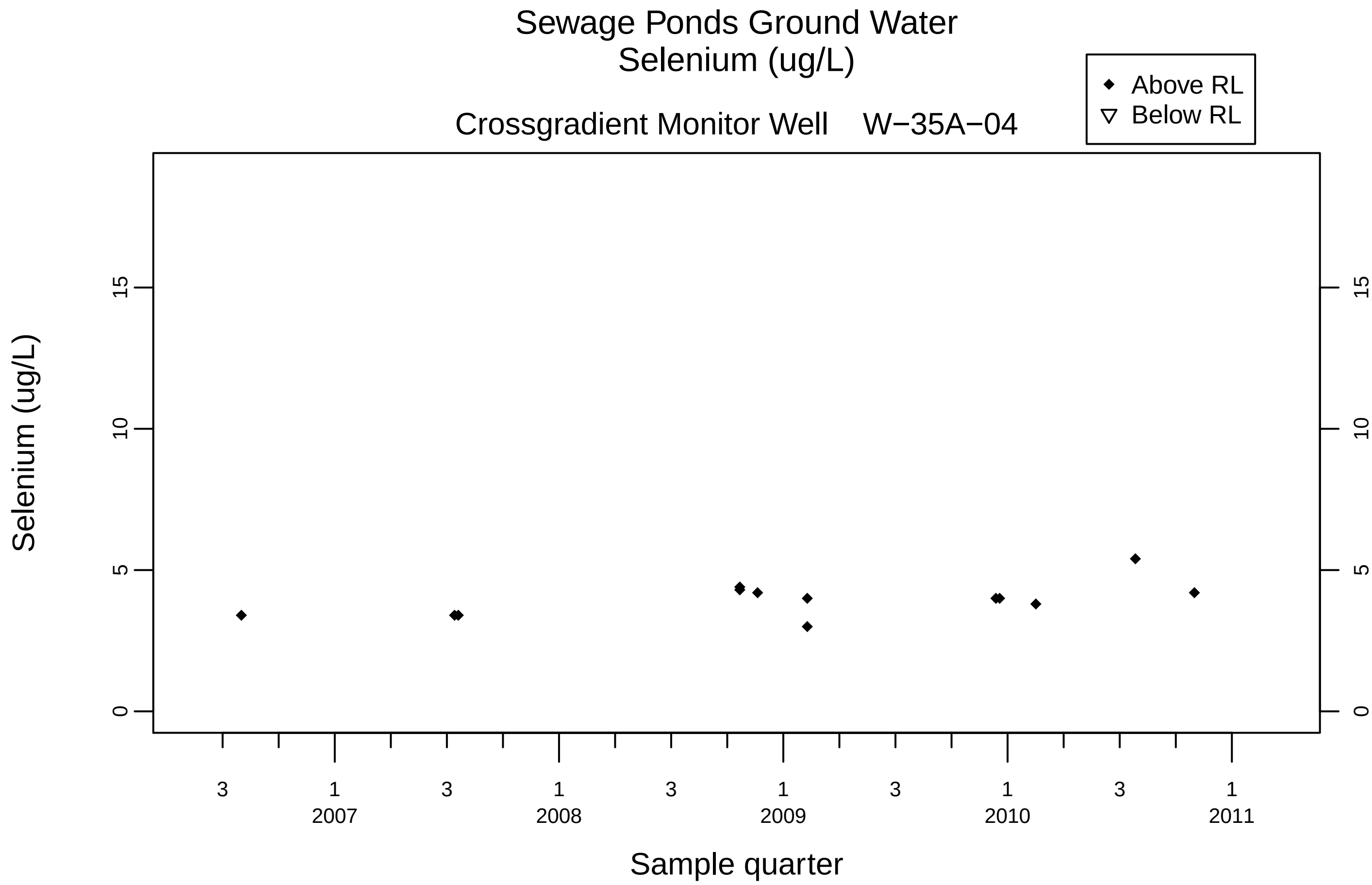


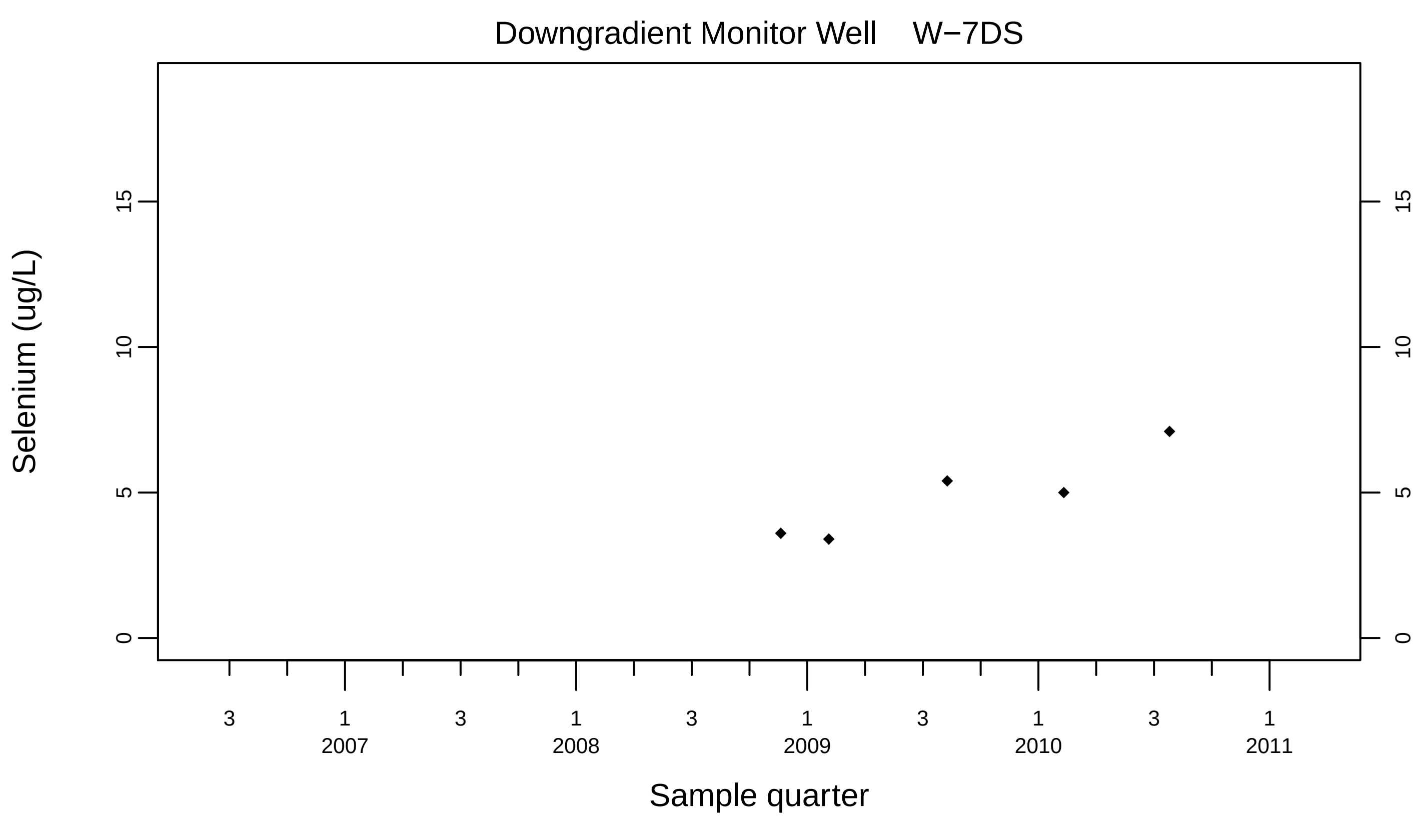

Sewage Ponds Ground Water
Potassium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Potassium (ug/L)
0
2000
4000
6000
8000
10000
12000
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

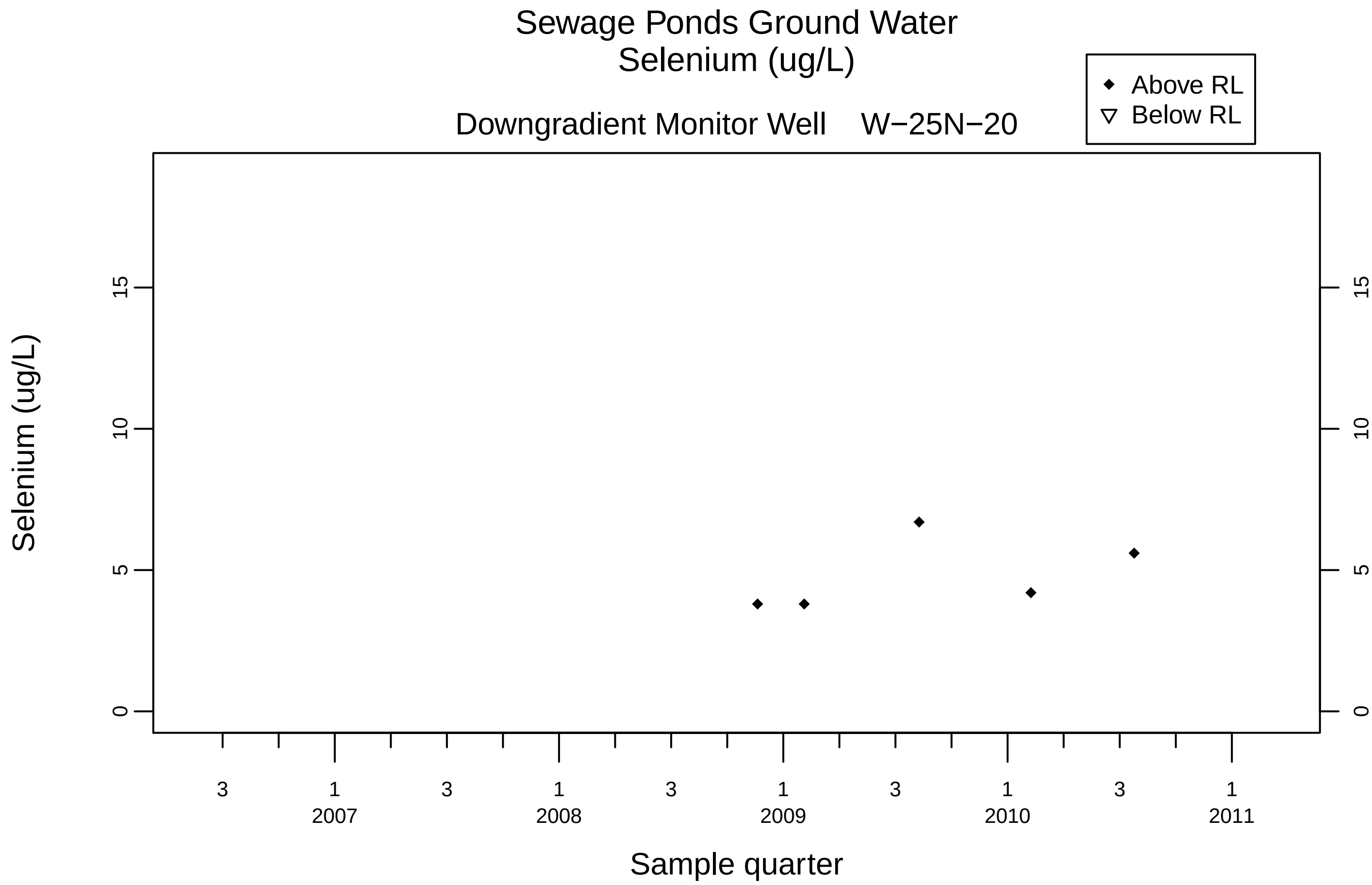
Sewage Ponds Ground Water
Selenium (ug/L)

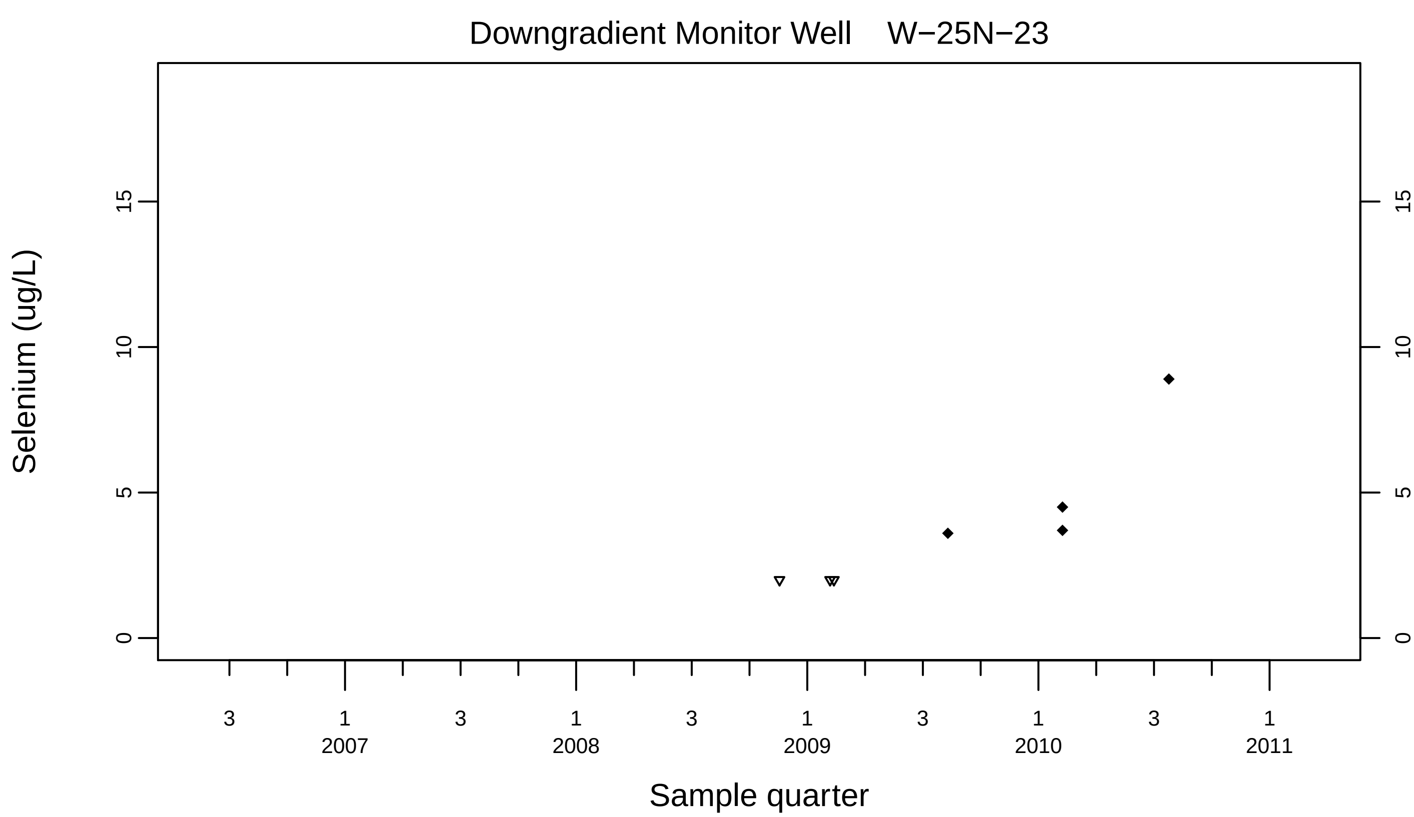




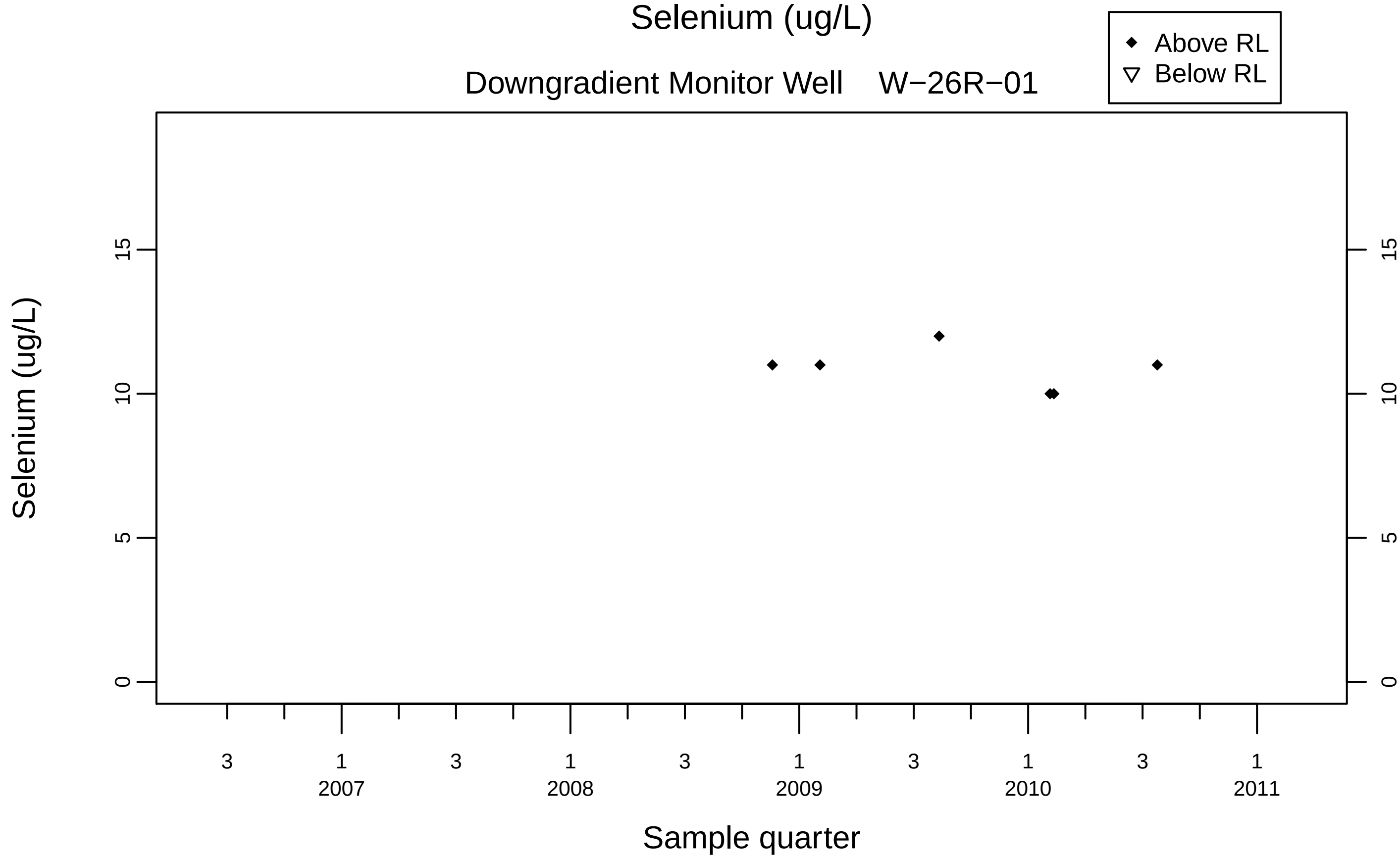

Sewage Ponds Ground Water
Selenium (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Selenium (ug/L)
0
5
10
15
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

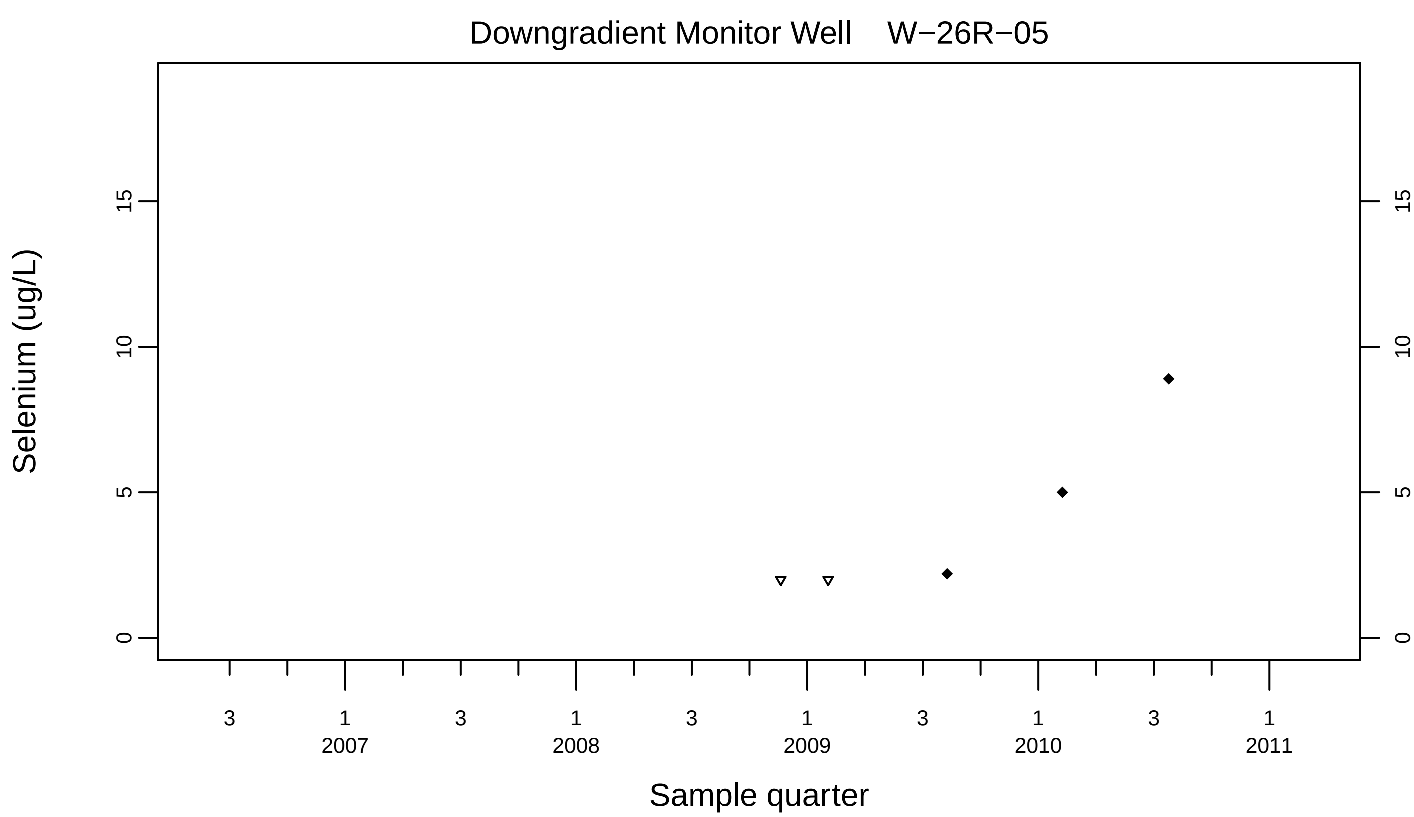

Downgradient Monitor Well W−7DS
Selenium (ug/L)
0
5
10
15
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

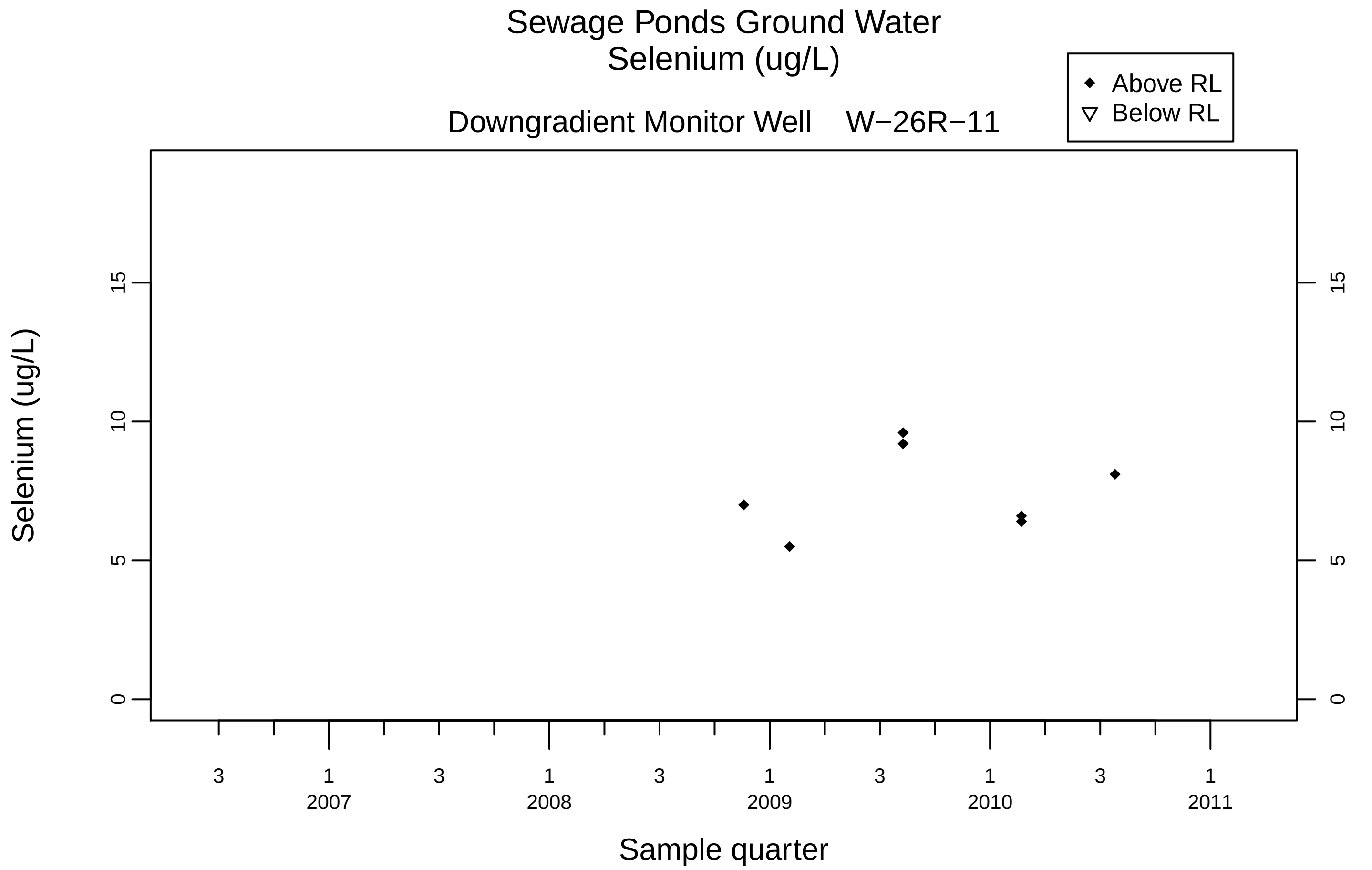

Sewage Ponds Ground Water
Selenium (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−25N−20
Selenium (ug/L)
0
5
10
15
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

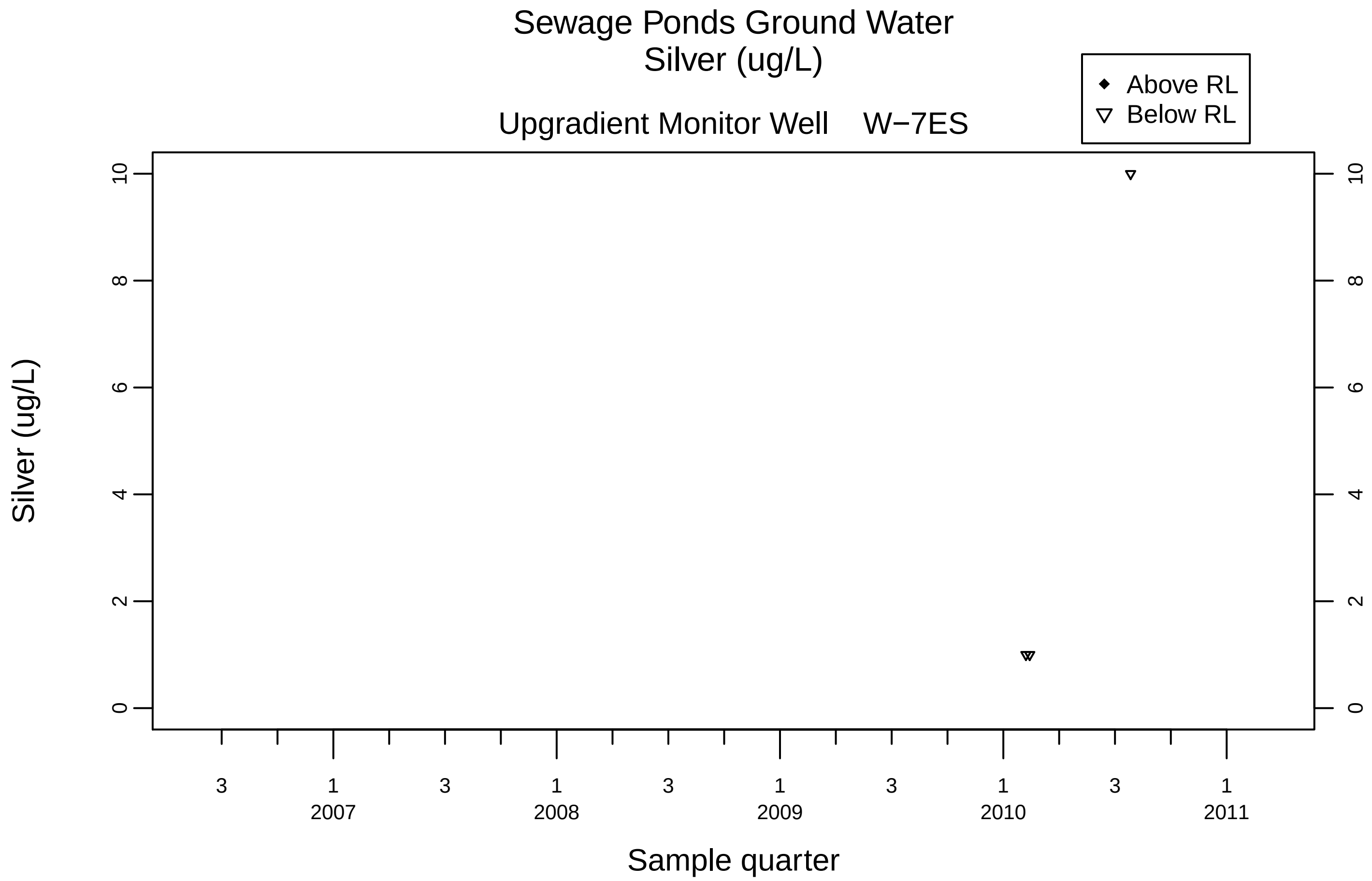

Downgradient Monitor Well W−25N−23
Selenium (ug/L)
0
5
10
15
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

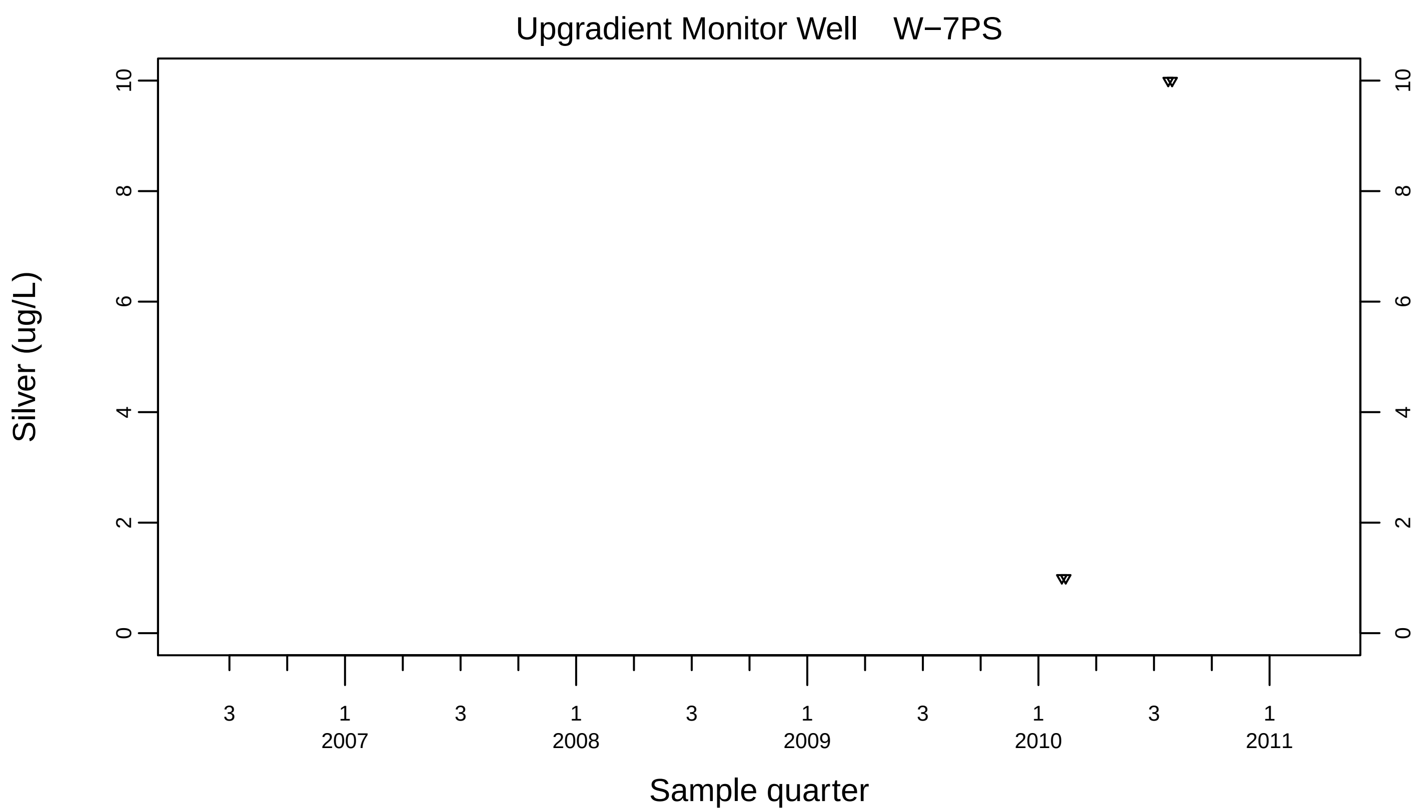
Sewage Ponds Ground Water
Selenium (ug/L)



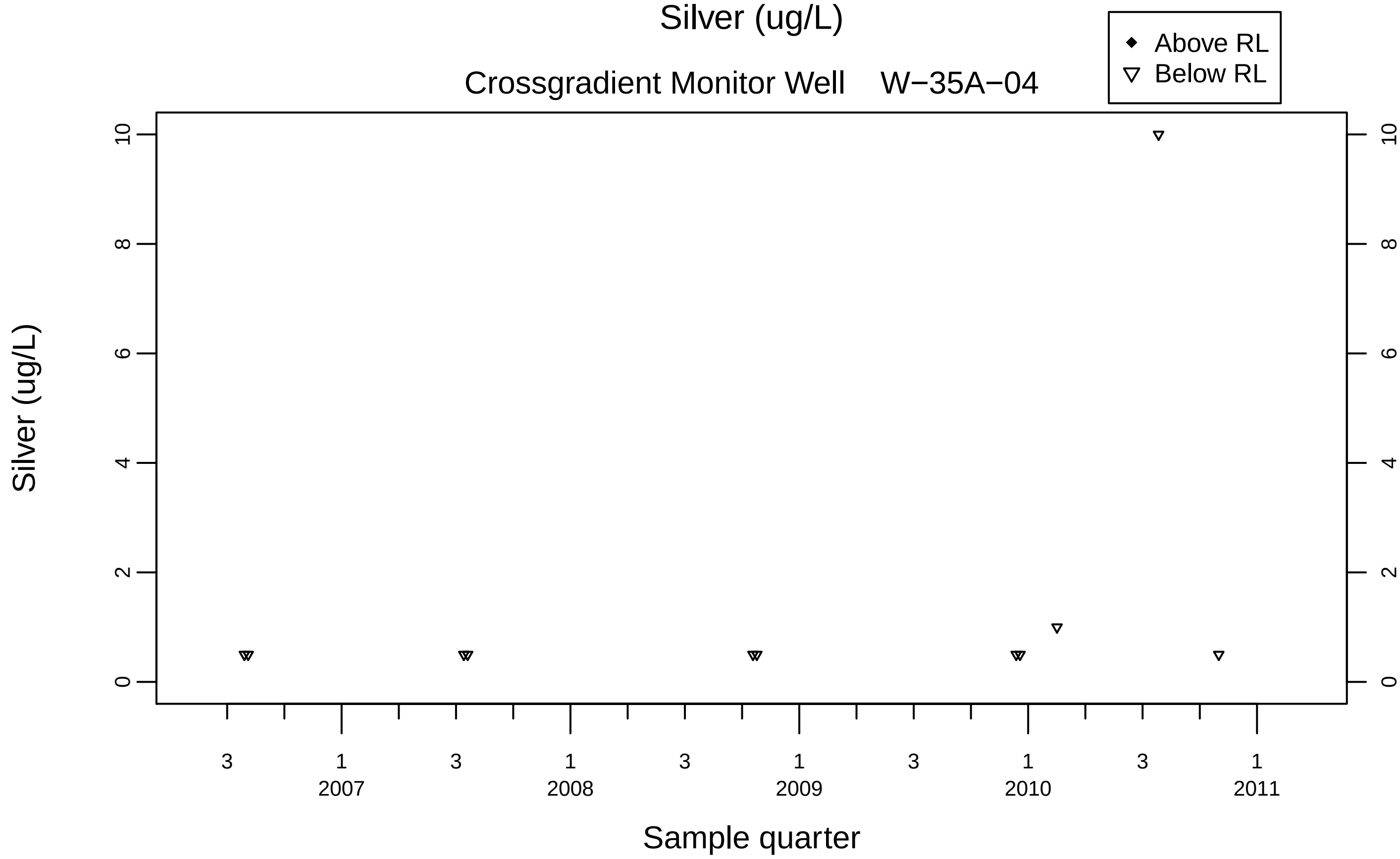


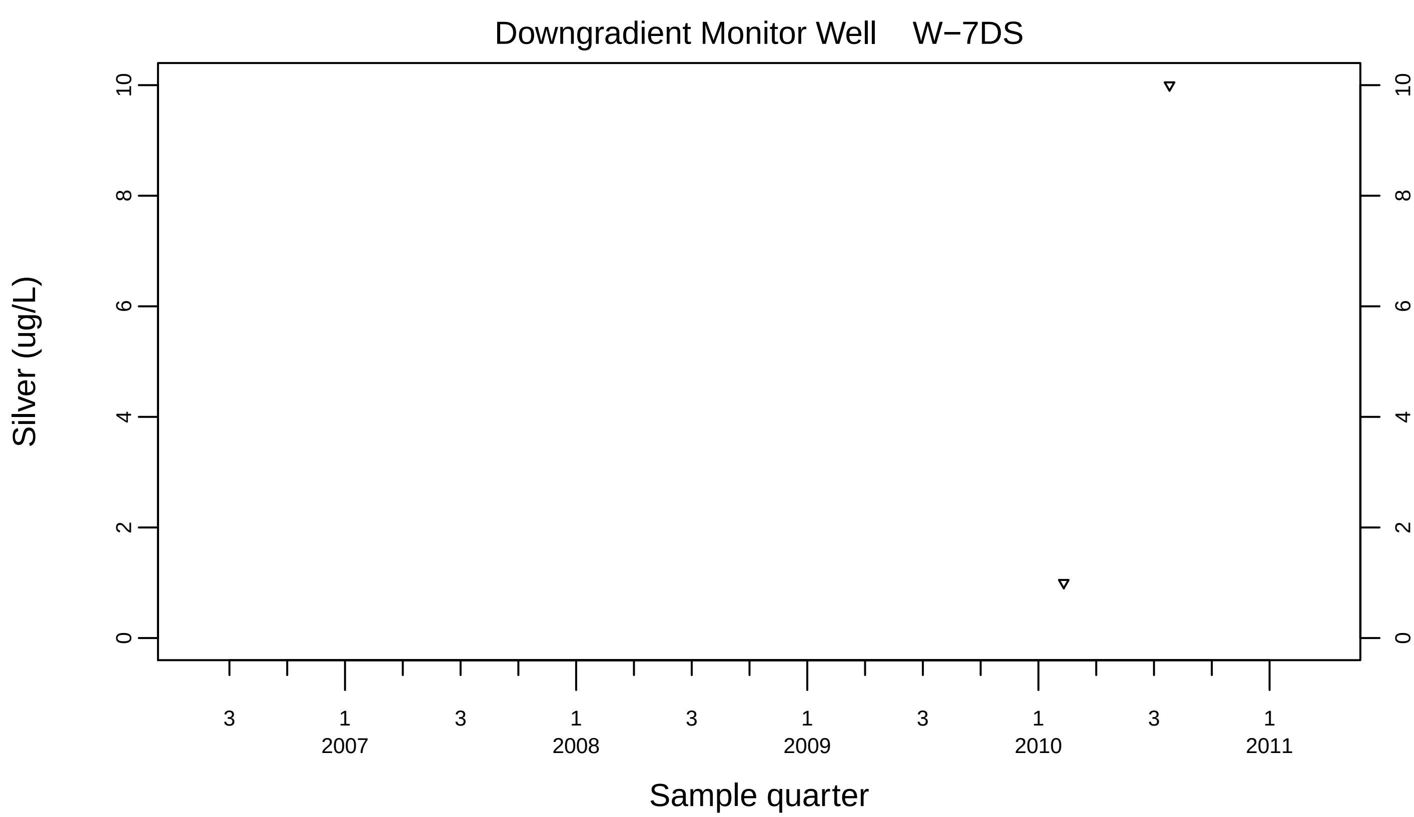

Sewage Ponds Ground Water
Selenium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Selenium (ug/L)
0
5
10
15
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter


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
Sample quarter

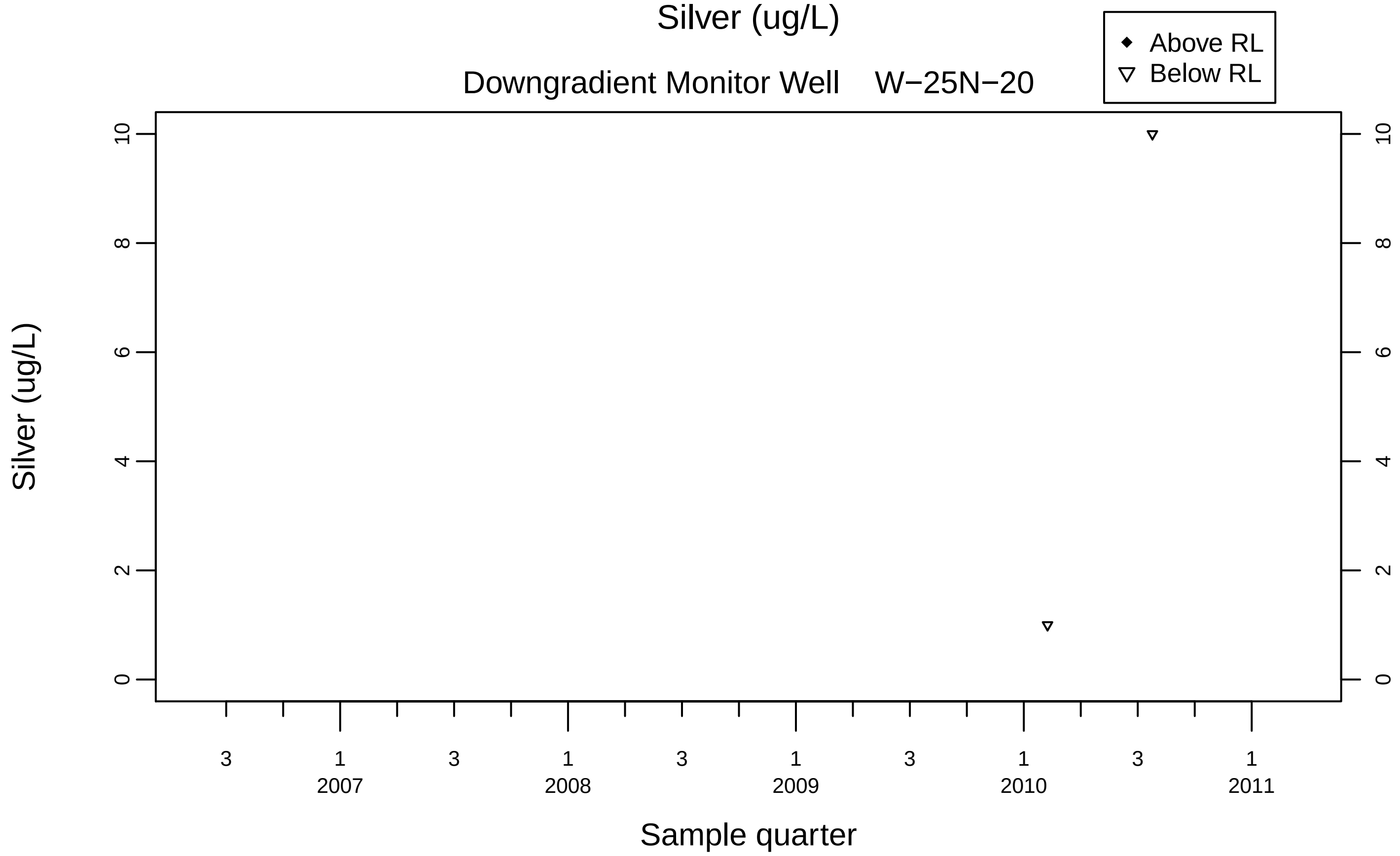

Upgradient Monitor Well W−7PS
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
2008
2009
2010
2011
Sample quarter

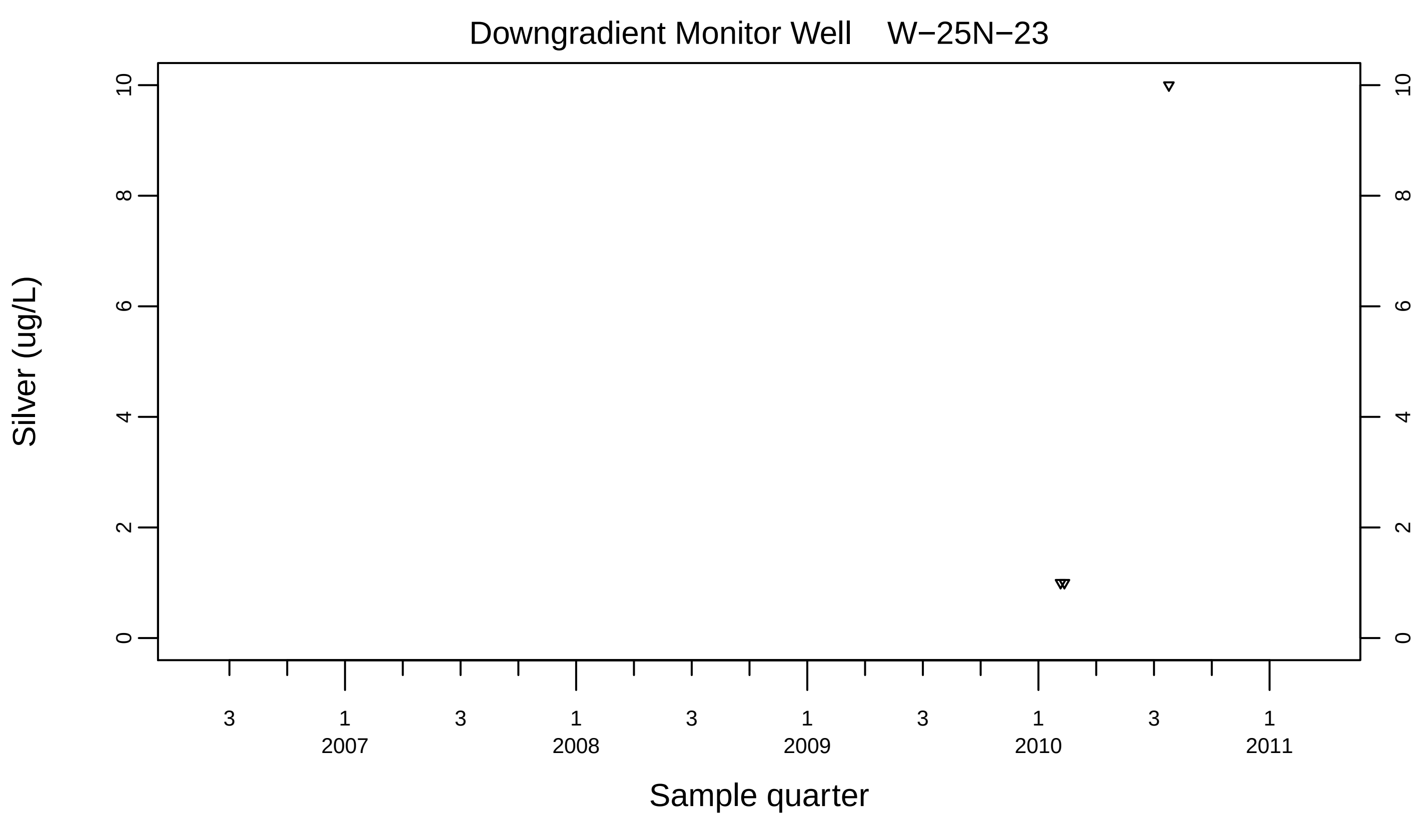
Sewage Ponds Ground Water
Silver (ug/L)



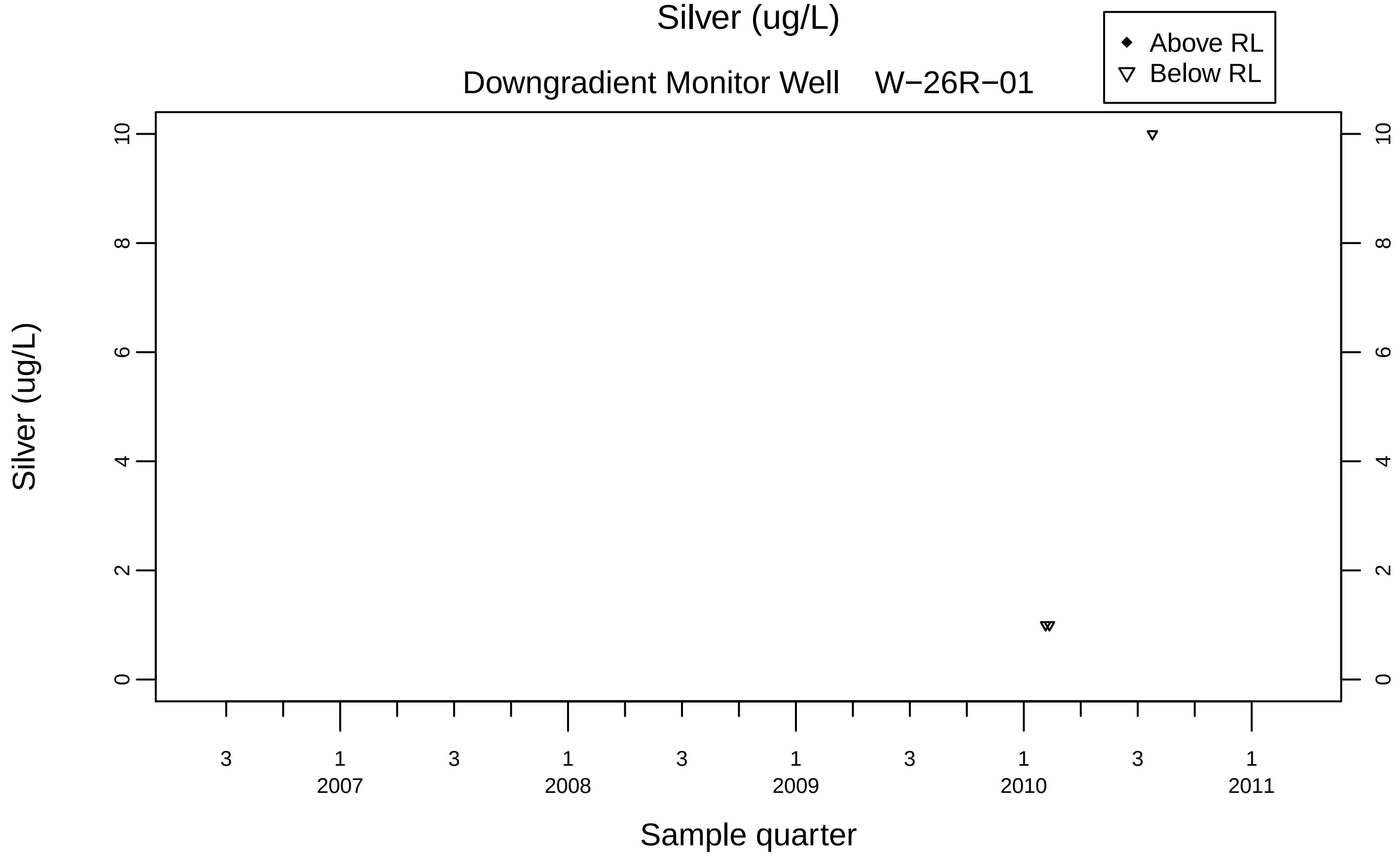


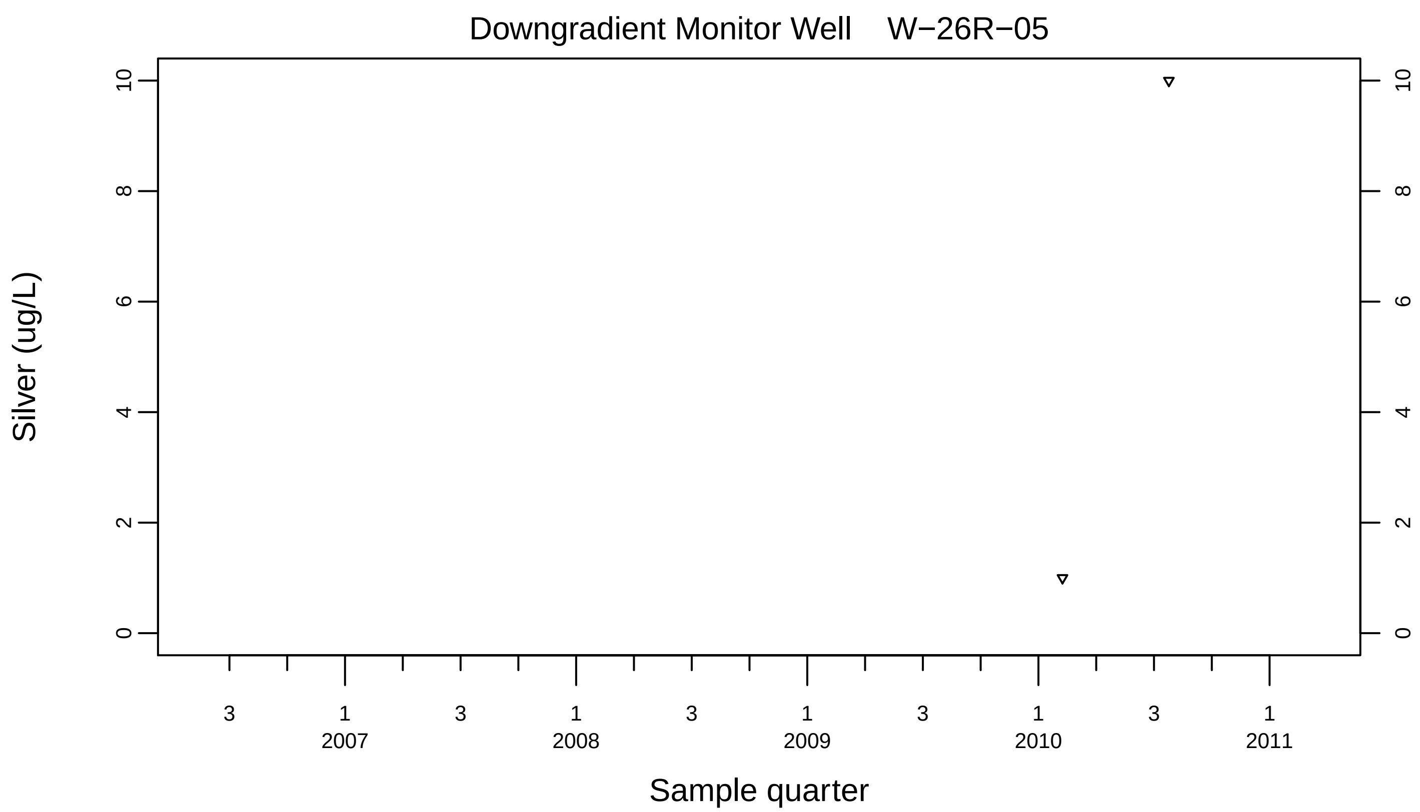
Sewage Ponds Ground Water
Silver (ug/L)

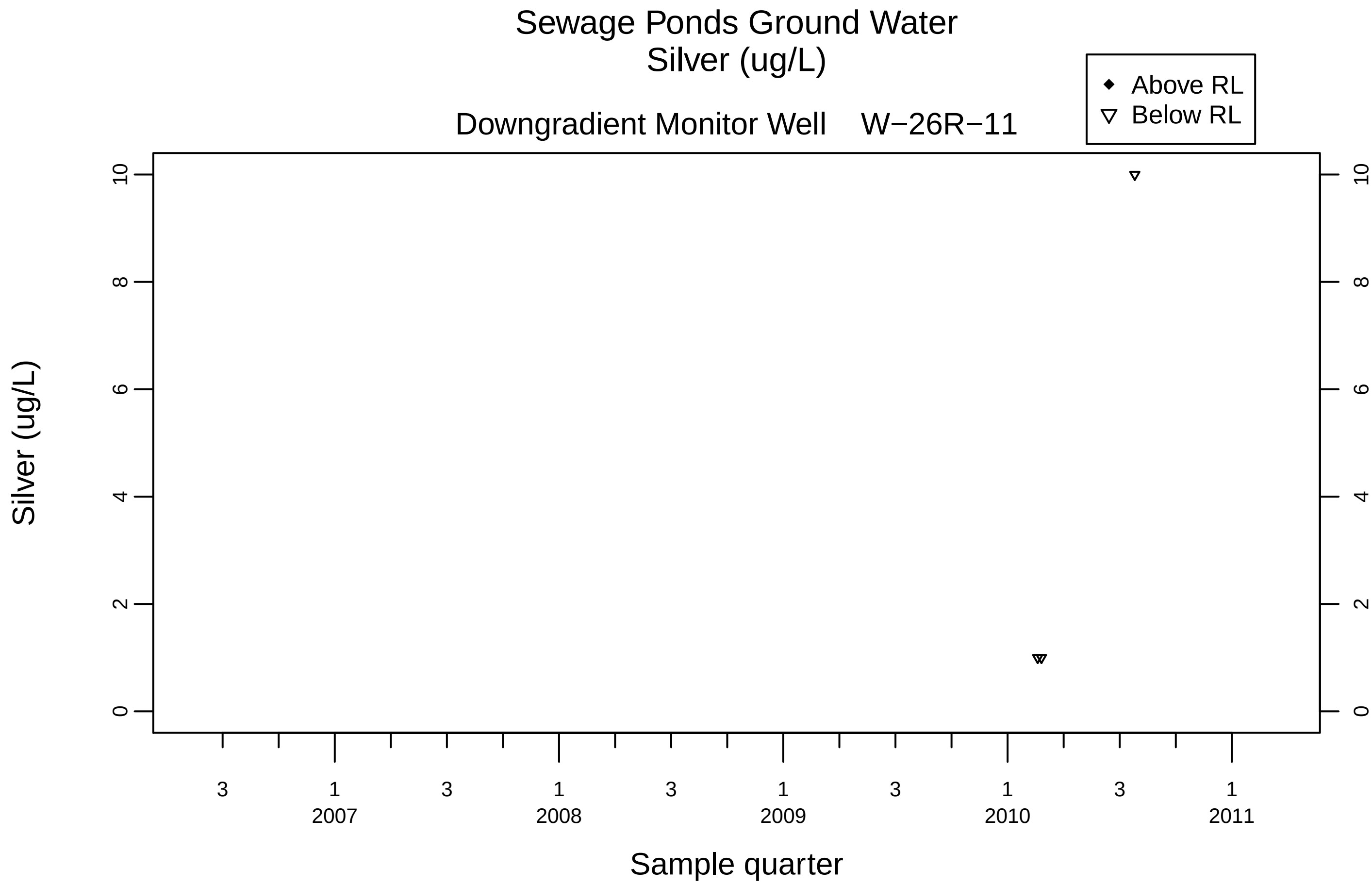




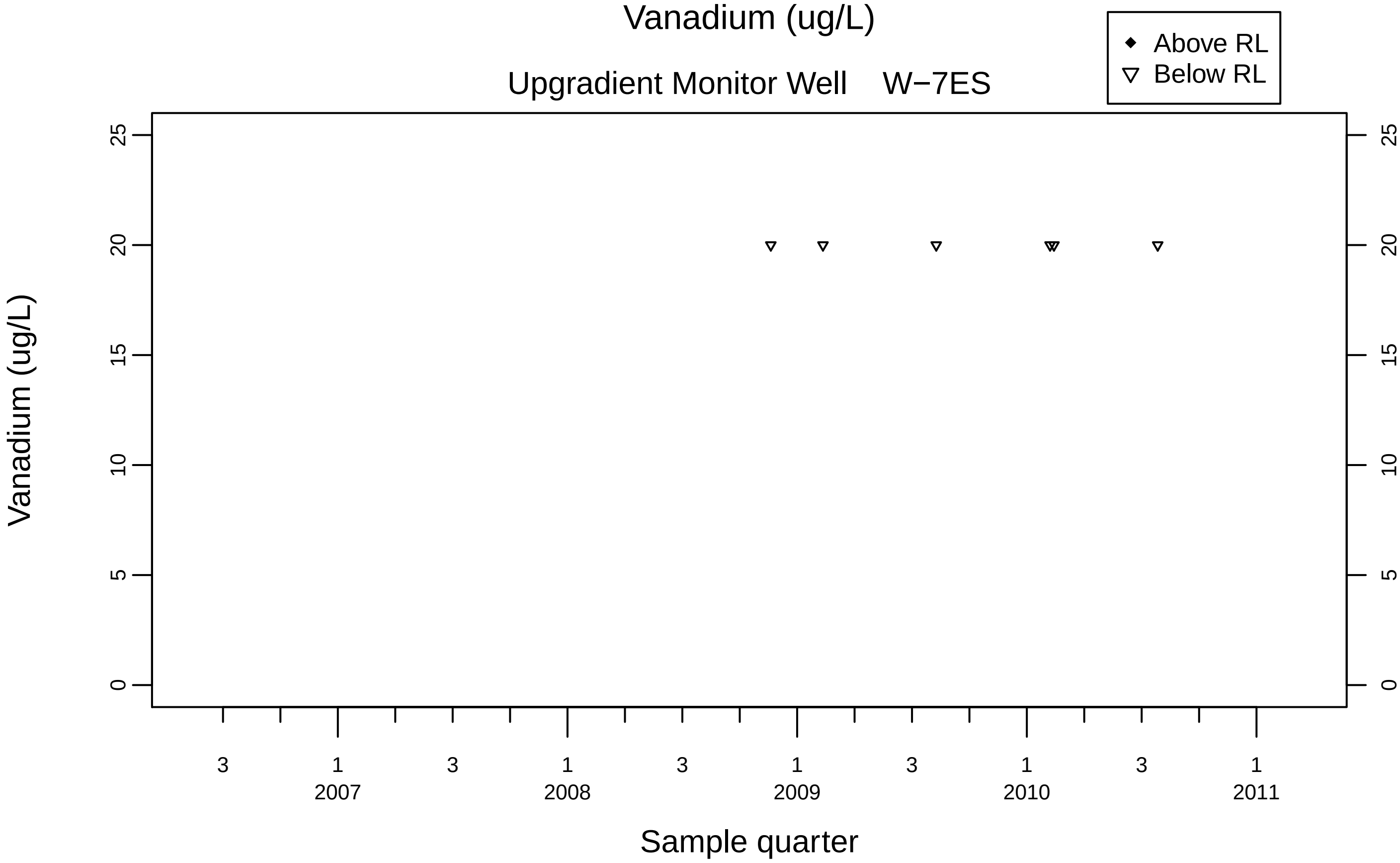
Sewage Ponds Ground Water
Silver (ug/L)

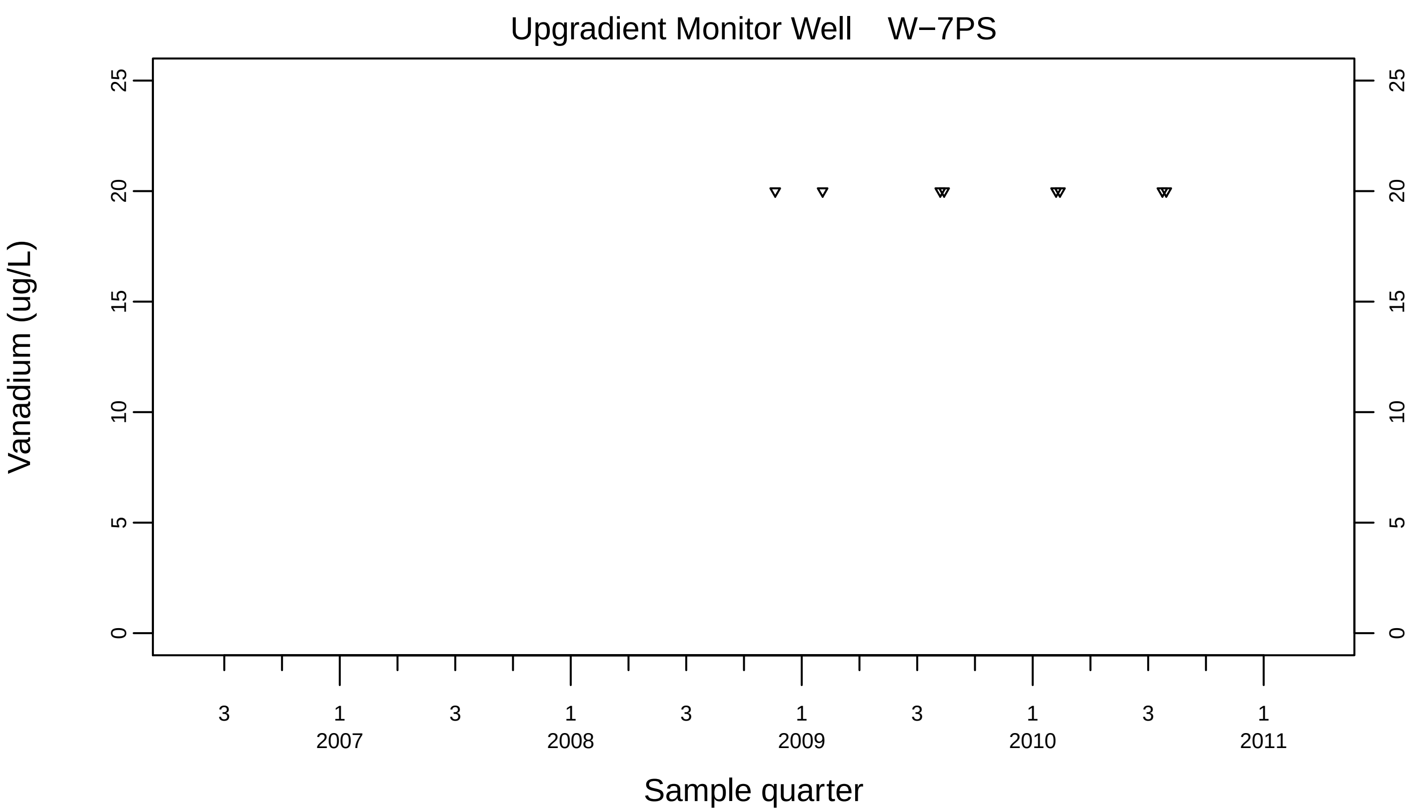


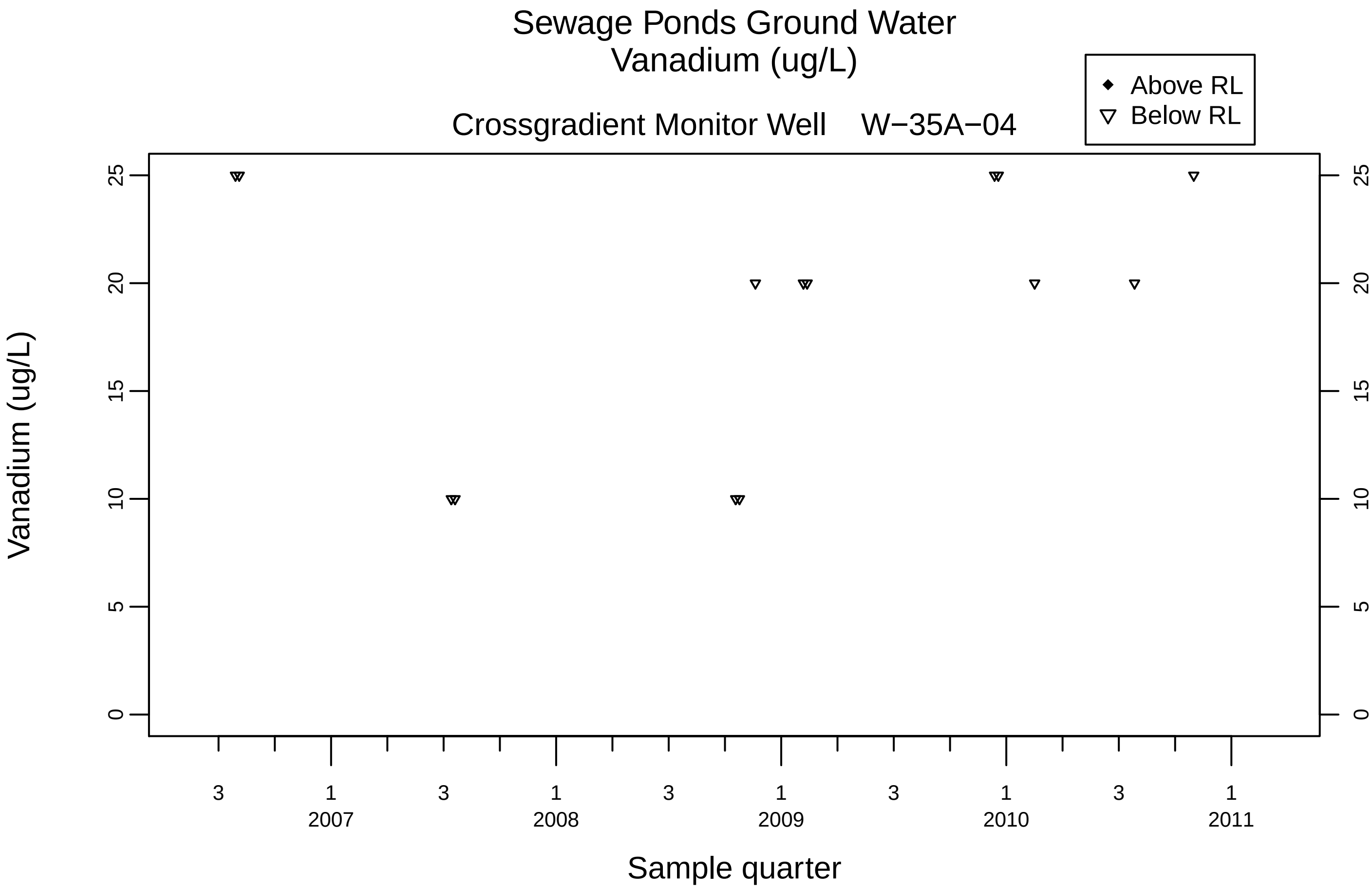


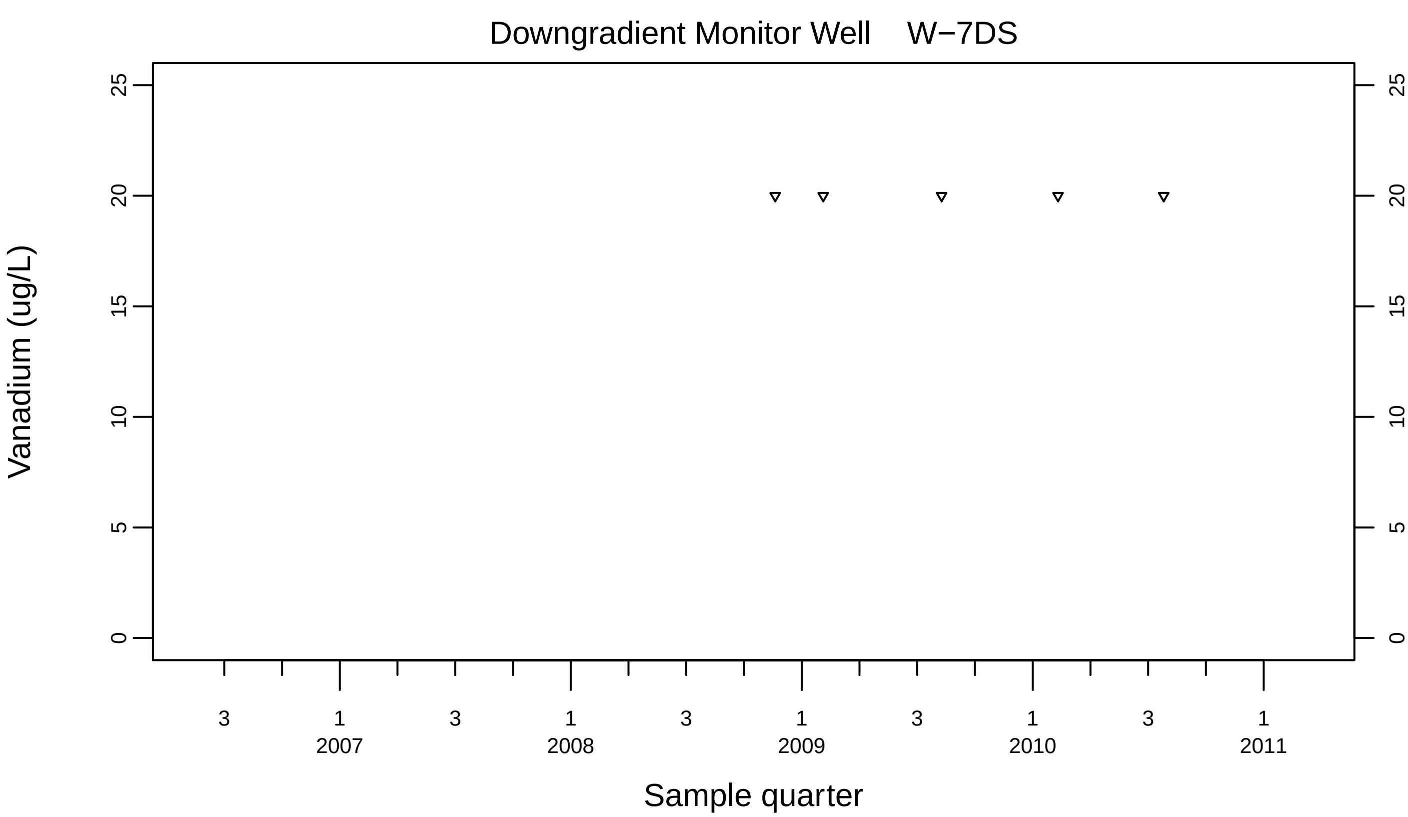

Sewage Ponds Ground Water
Silver (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Silver (ug/L)
0
2
4
6
8
10
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

Sewage Ponds Ground Water
Vanadium (ug/L)



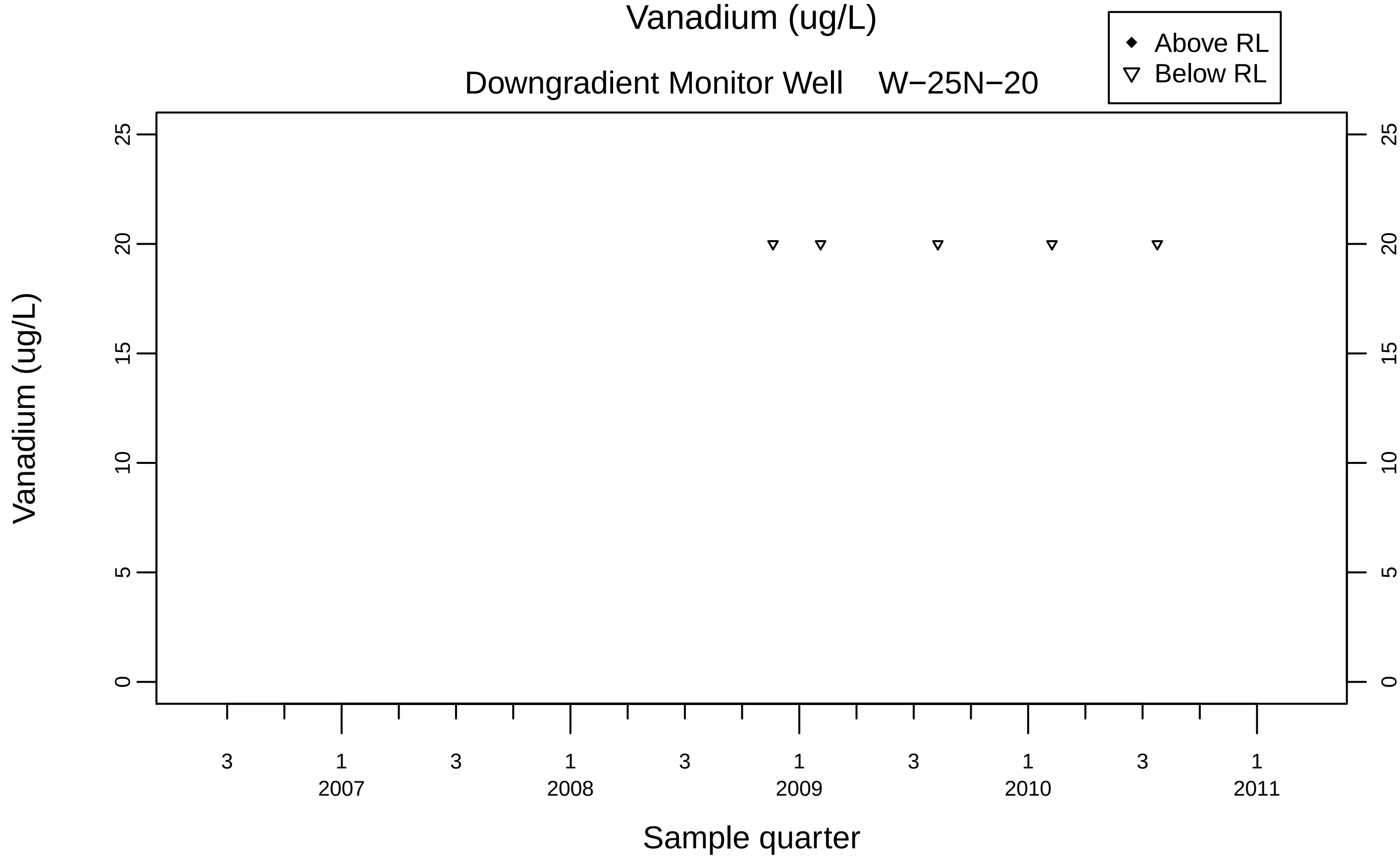



Sewage Ponds Ground Water
Vanadium (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Vanadium (ug/L)
0
5
10
15
20
25
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

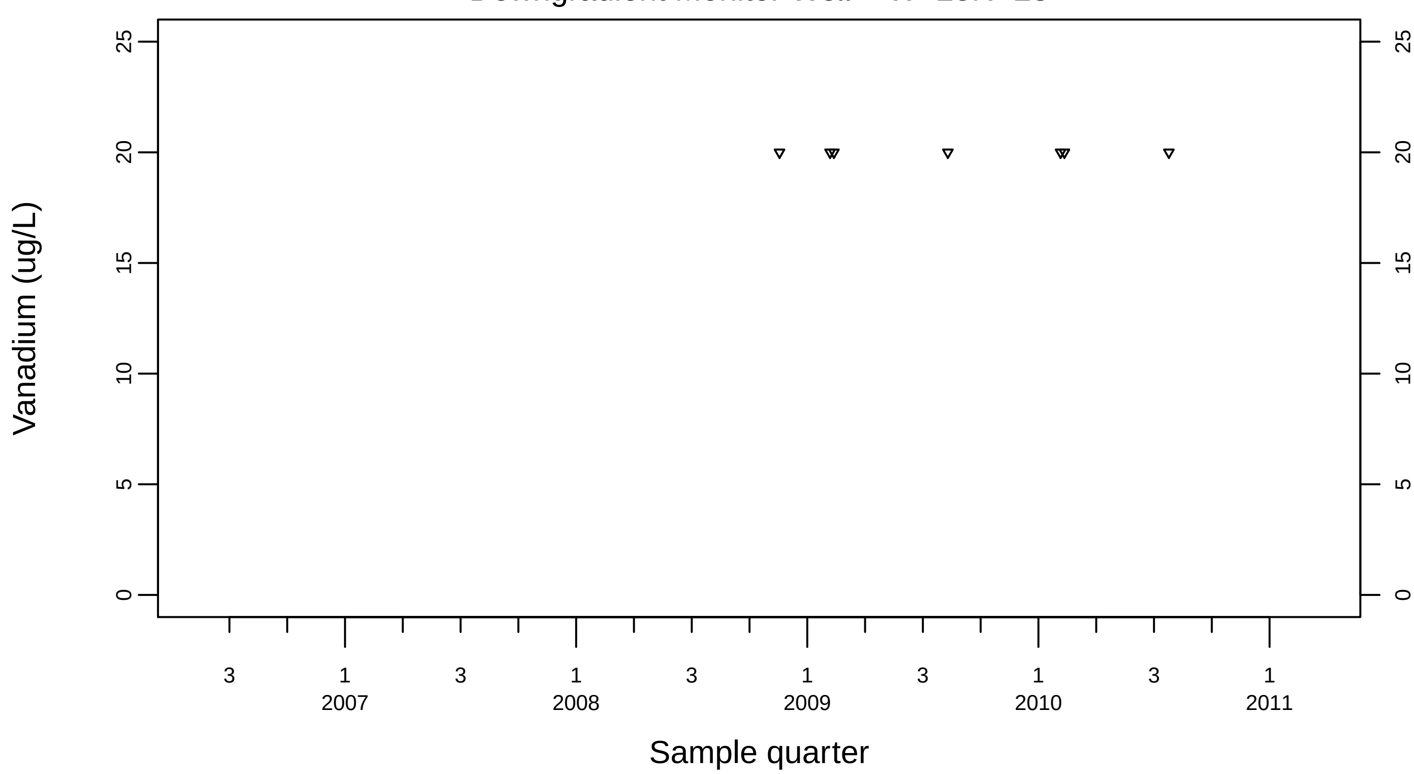

Downgradient Monitor Well W−7DS
Vanadium (ug/L)
0
5
10
15
20
25
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

Sewage Ponds Ground Water
Vanadium (ug/L)

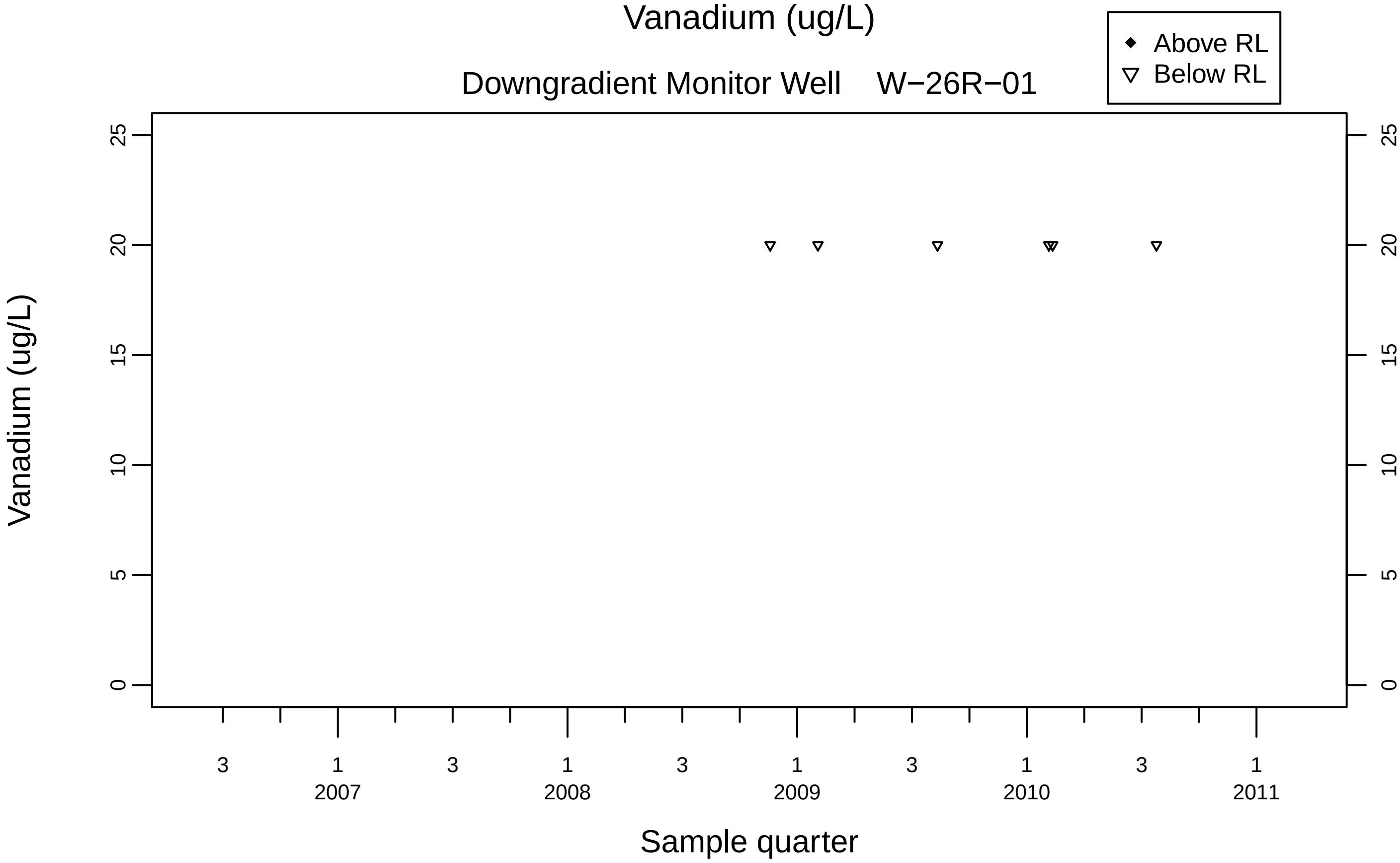
Downgradient Monitor Well W−25N−20

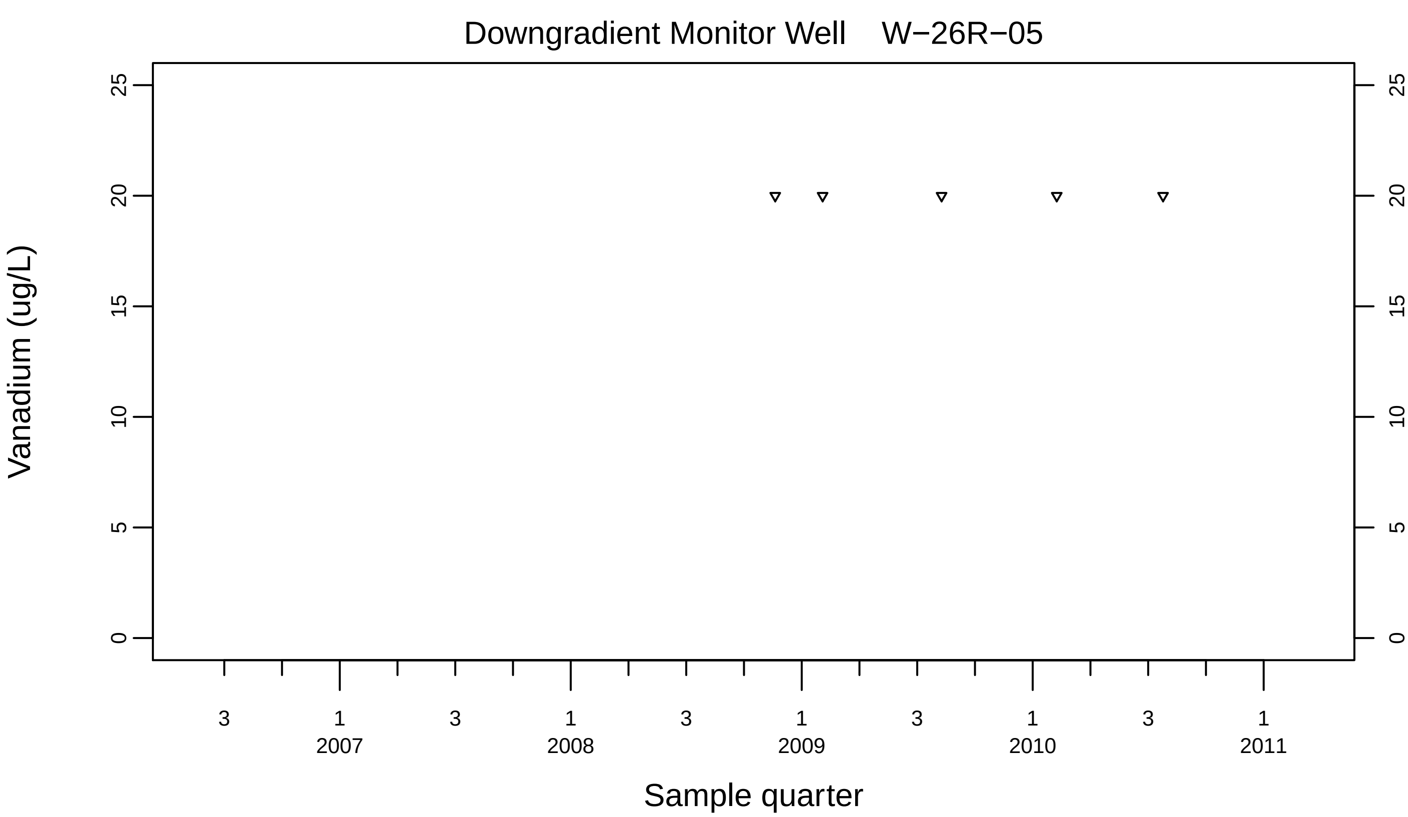


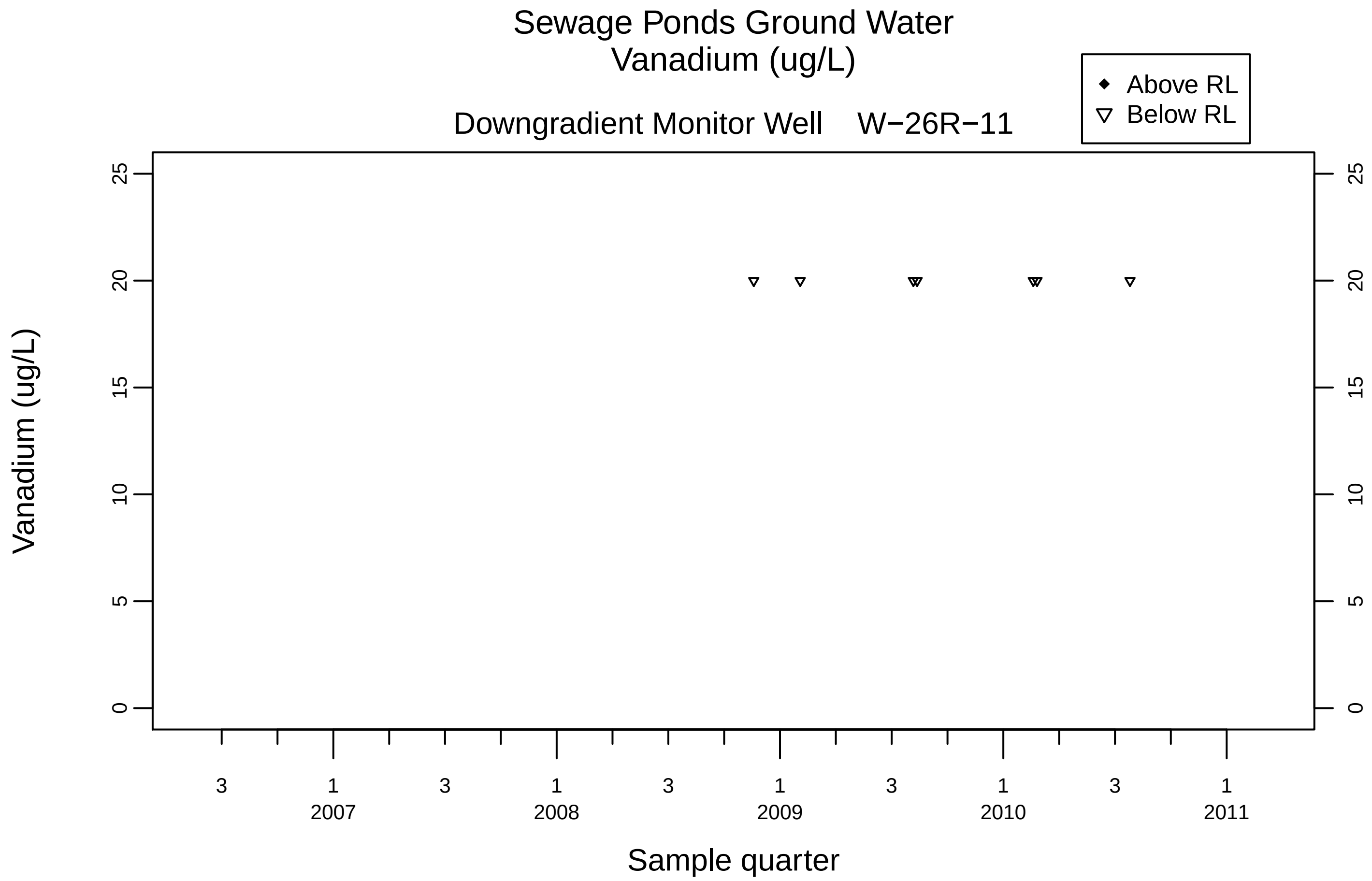
Downgradient Monitor Well W−25N−23



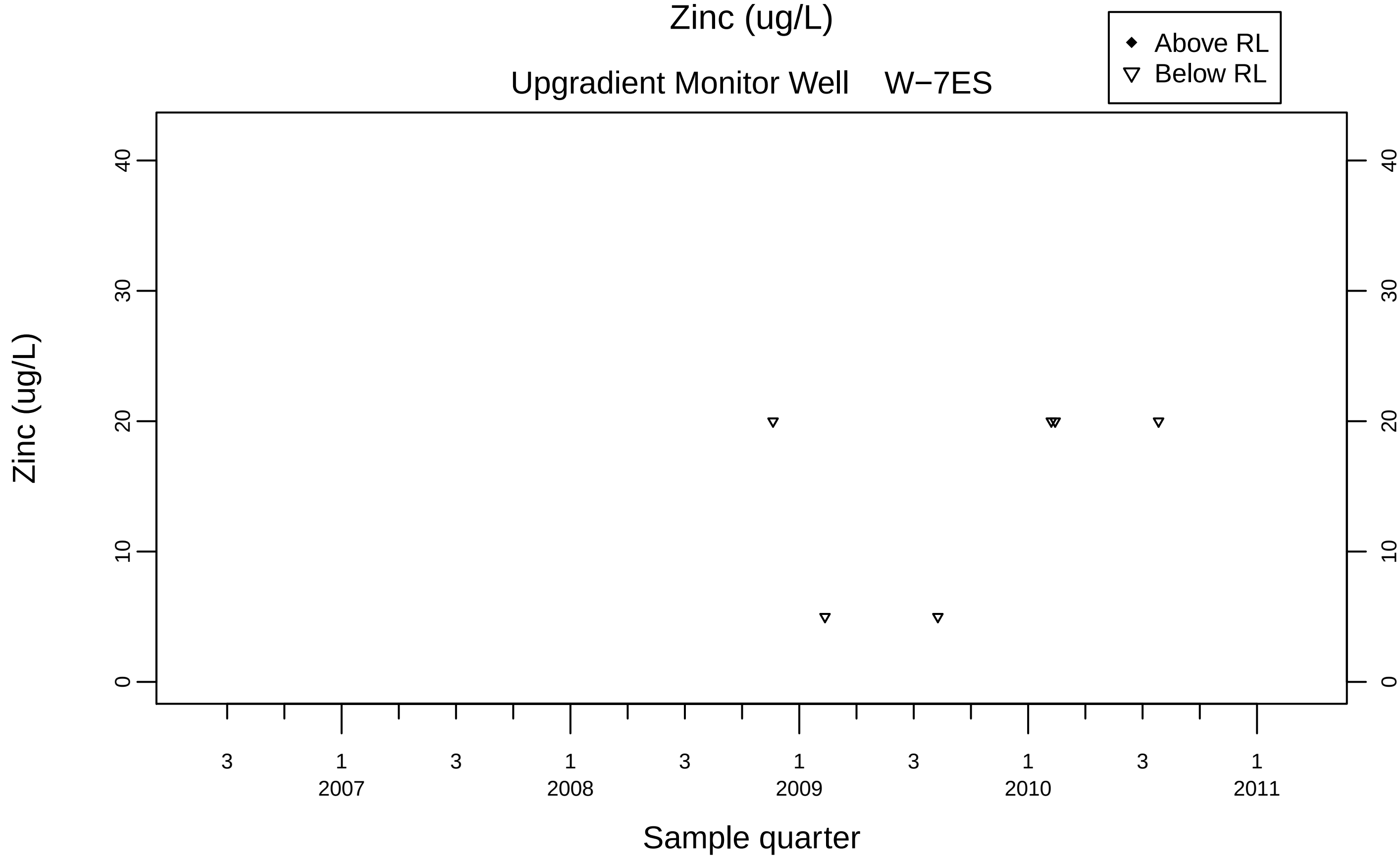
Sewage Ponds Ground Water
Vanadium (ug/L)

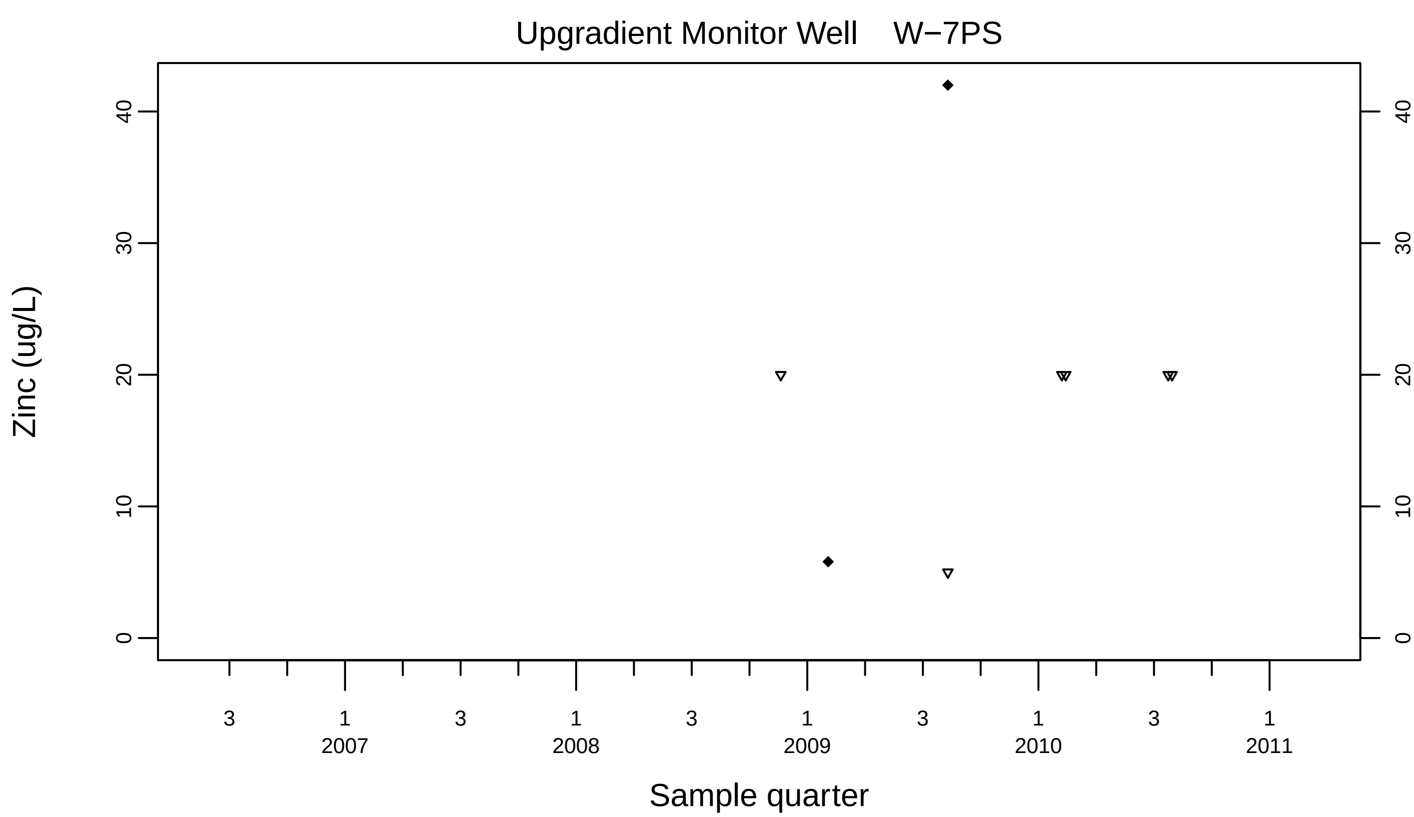


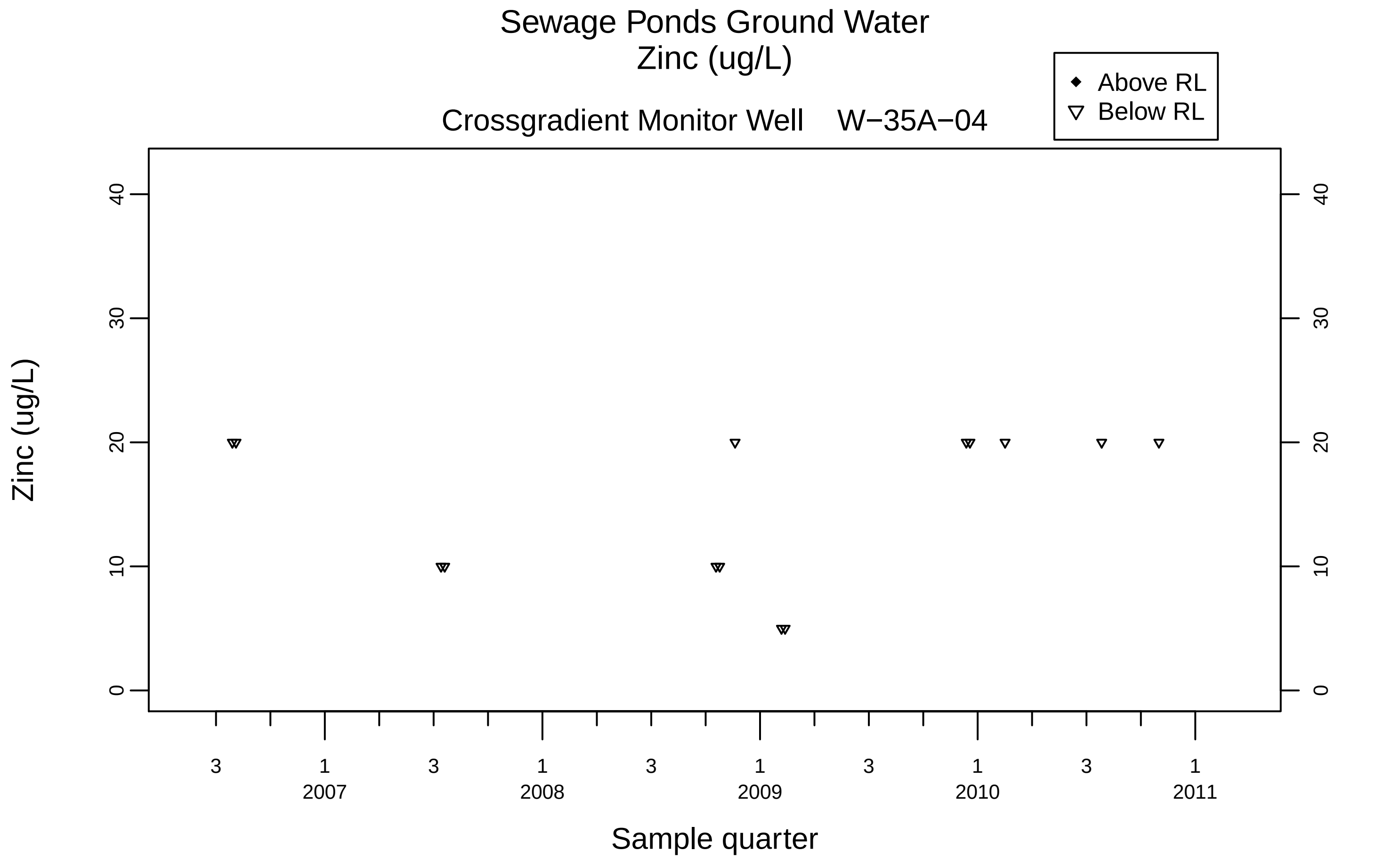


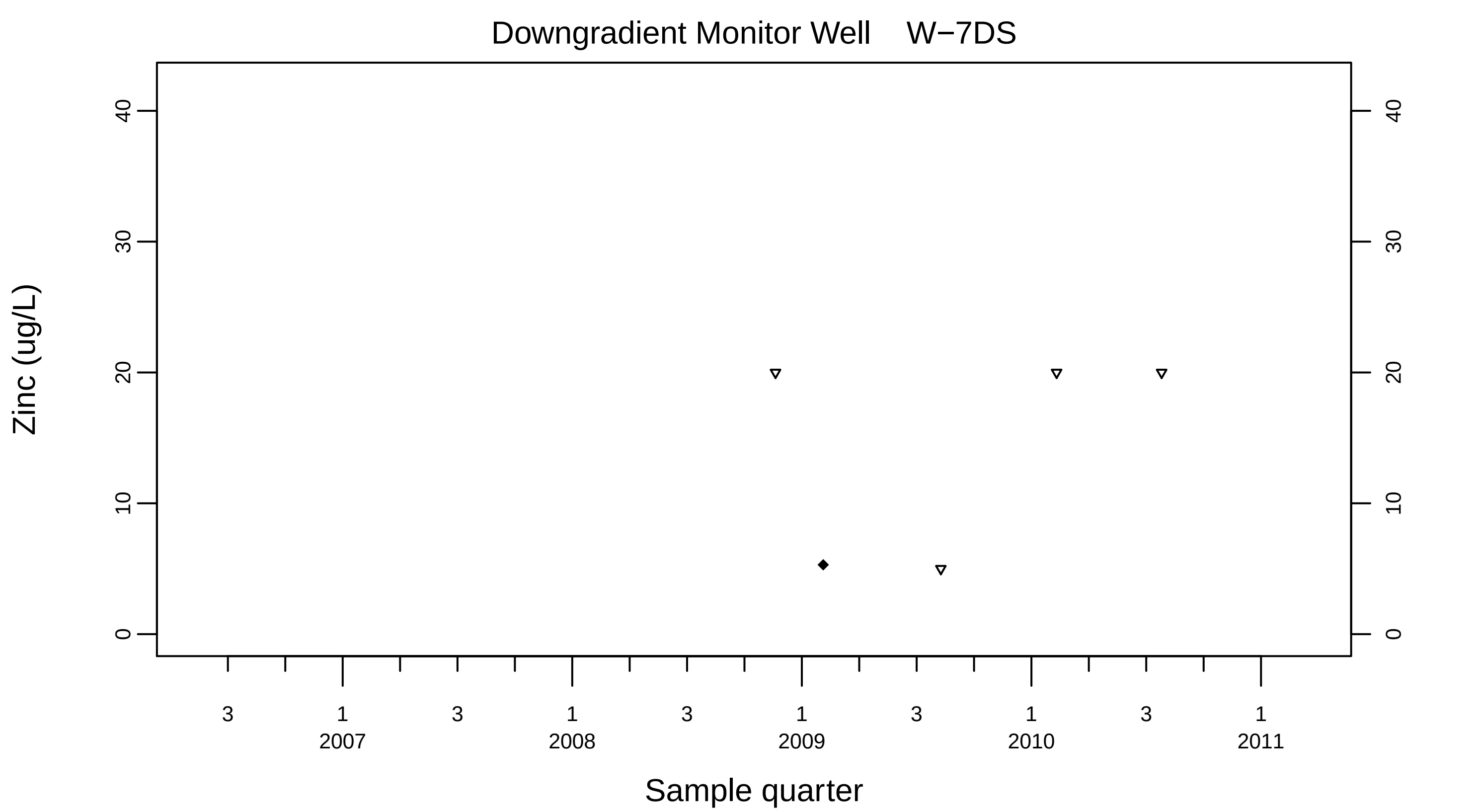

Sewage Ponds Ground Water
Vanadium (ug/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Vanadium (ug/L)
0
5
10
15
20
25
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

Sewage Ponds Ground Water
Zinc (ug/L)

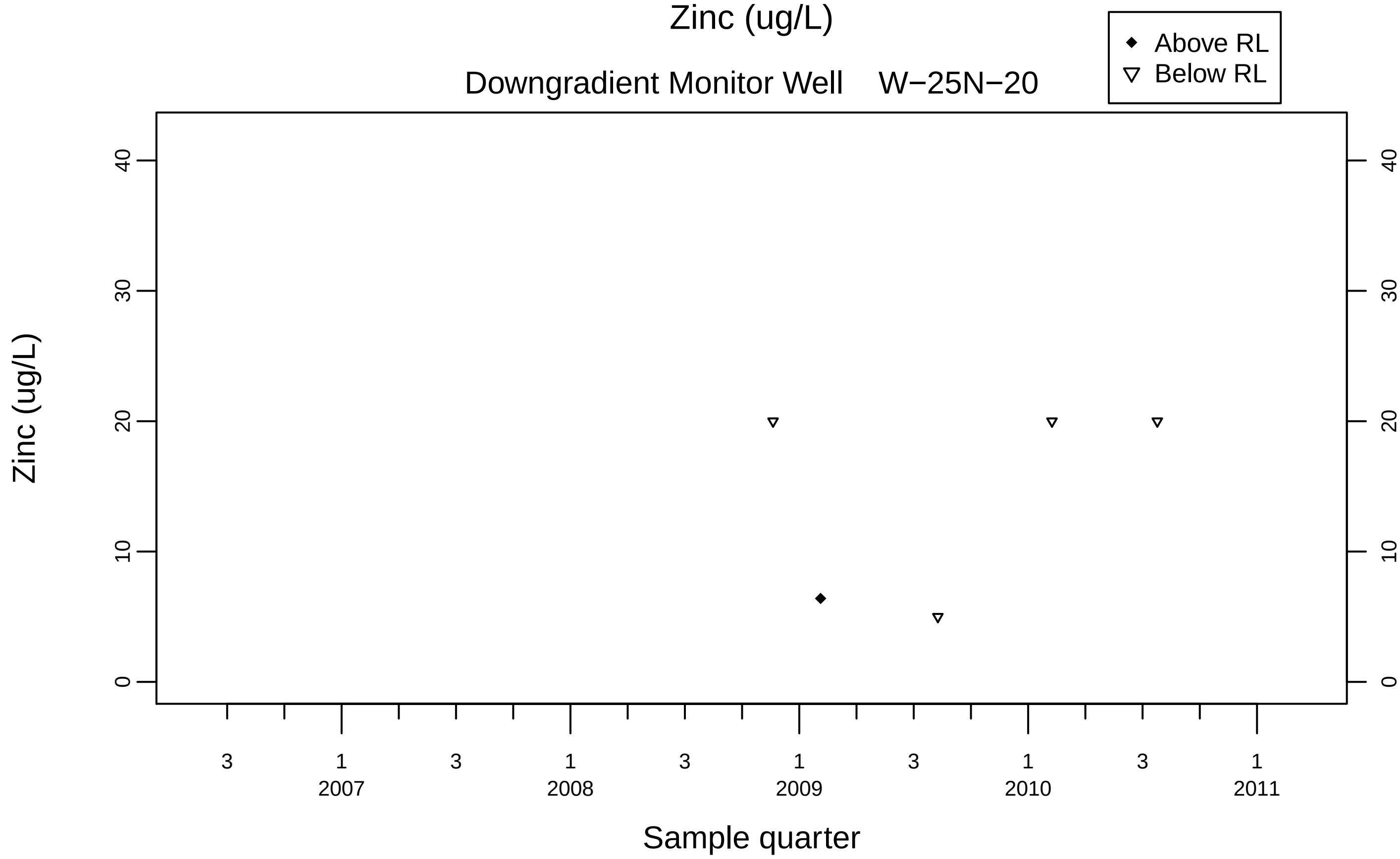


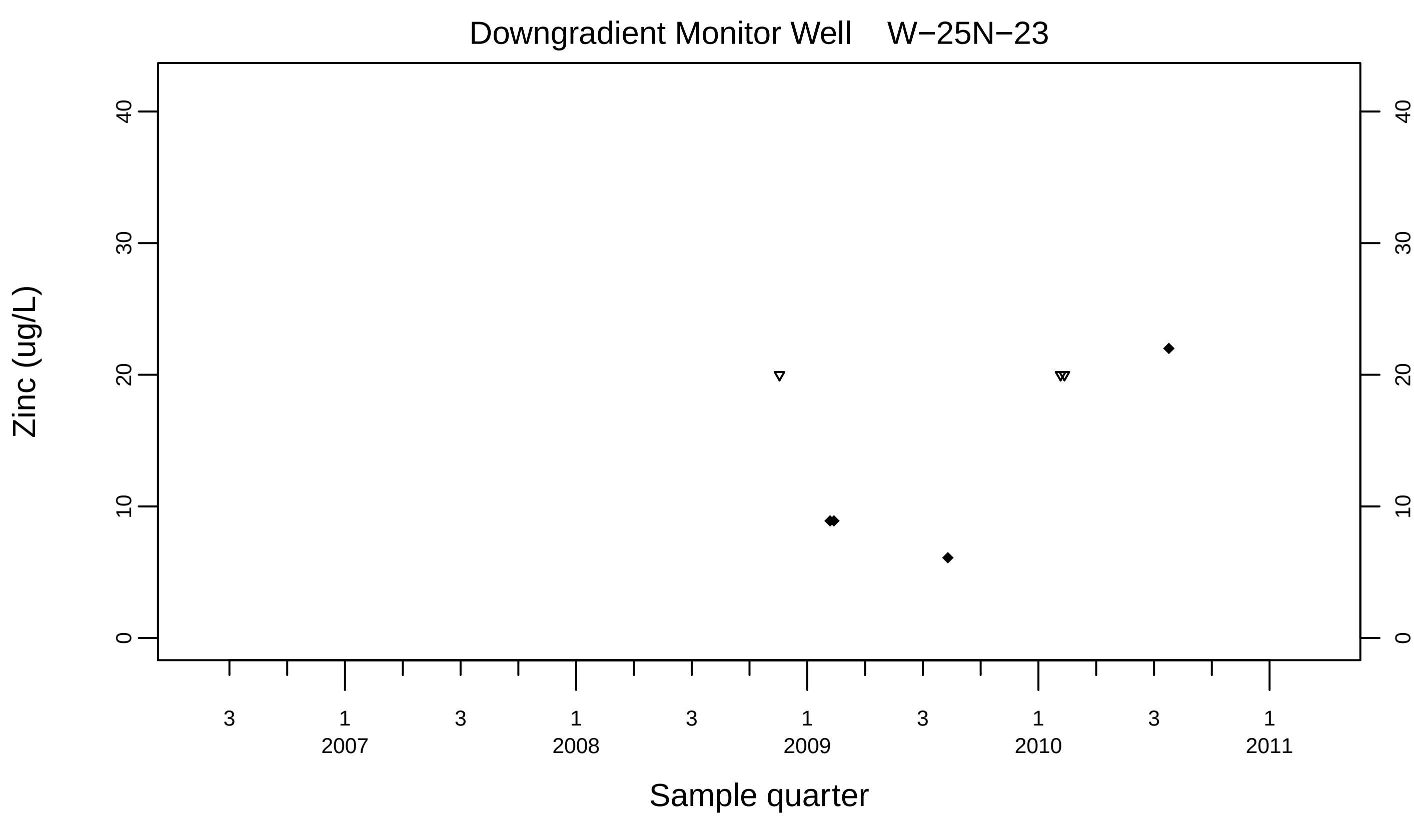


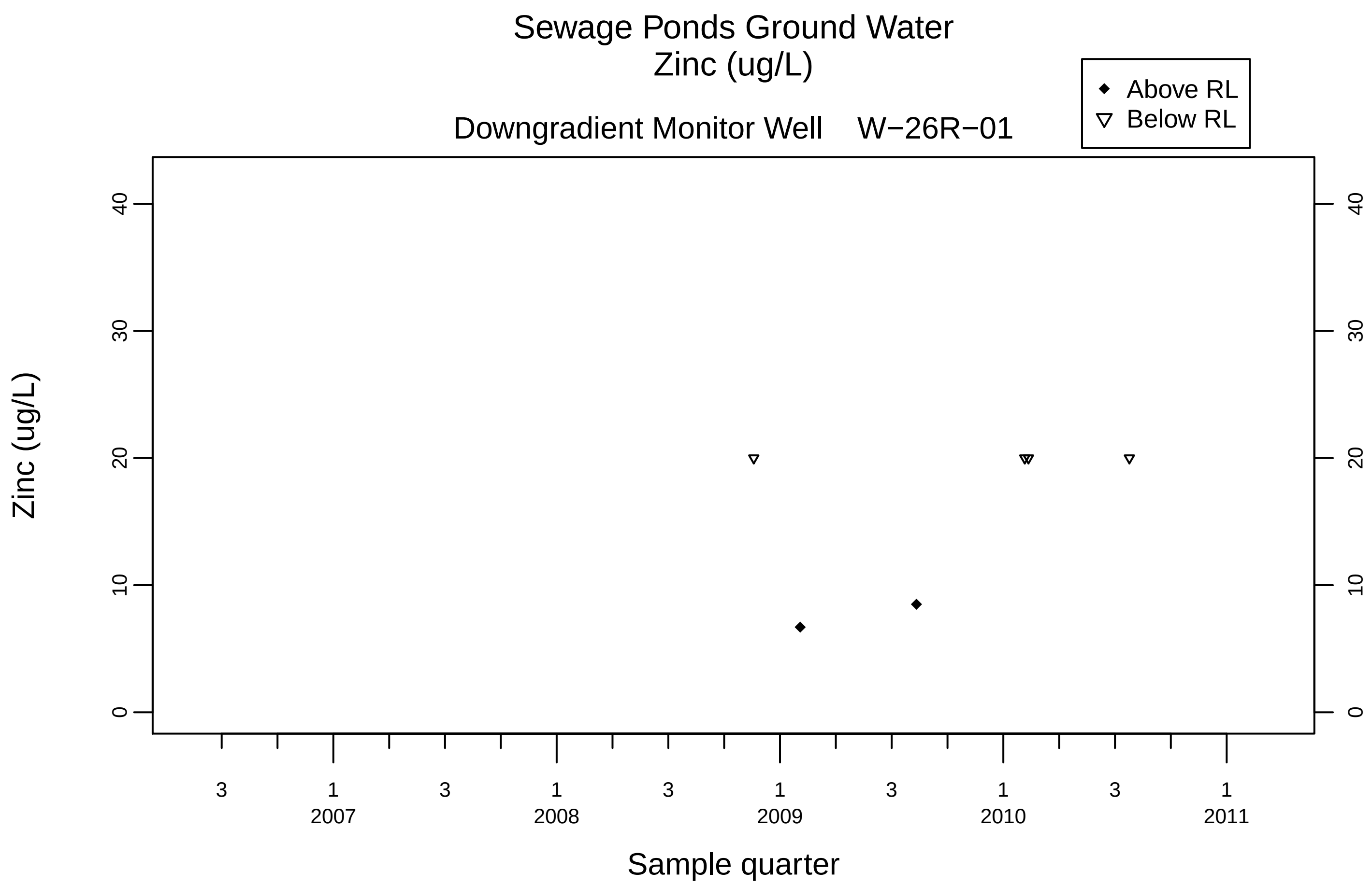

Sewage Ponds Ground Water
Zinc (ug/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Zinc (ug/L)
0
10
20
30
40
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

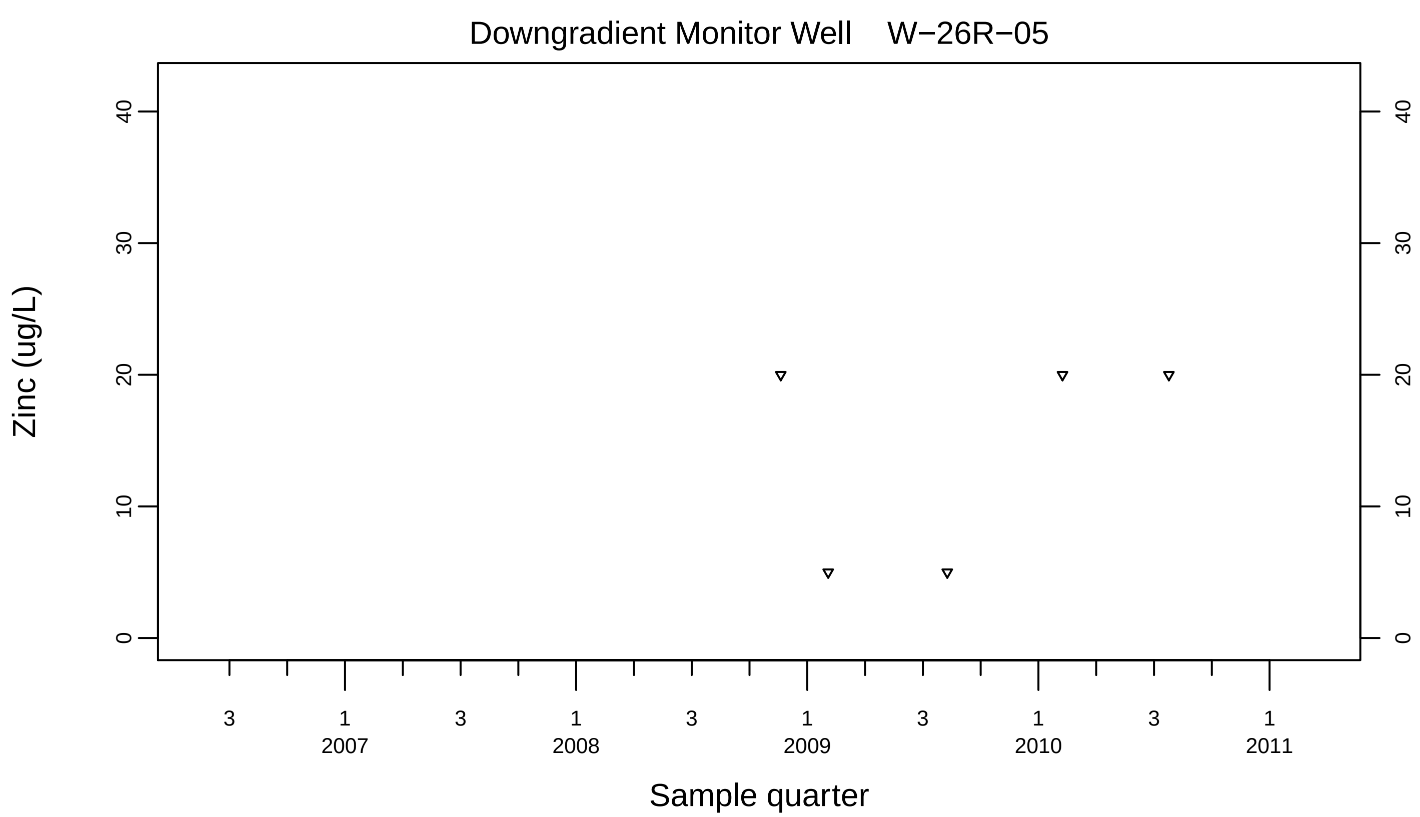

Downgradient Monitor Well W−7DS
Zinc (ug/L)
0
10
20
30
40
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

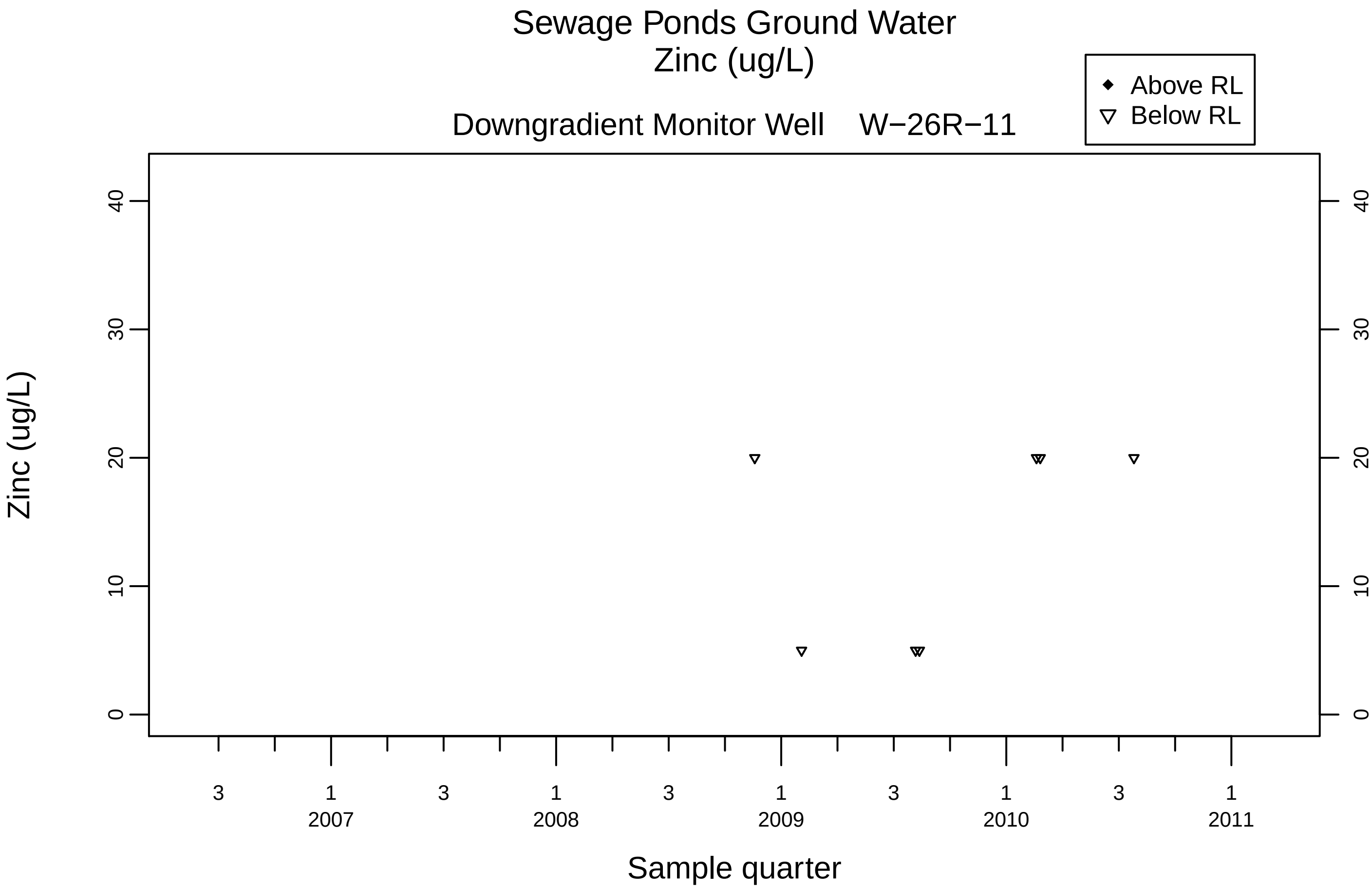
Sewage Ponds Ground Water
Zinc (ug/L)

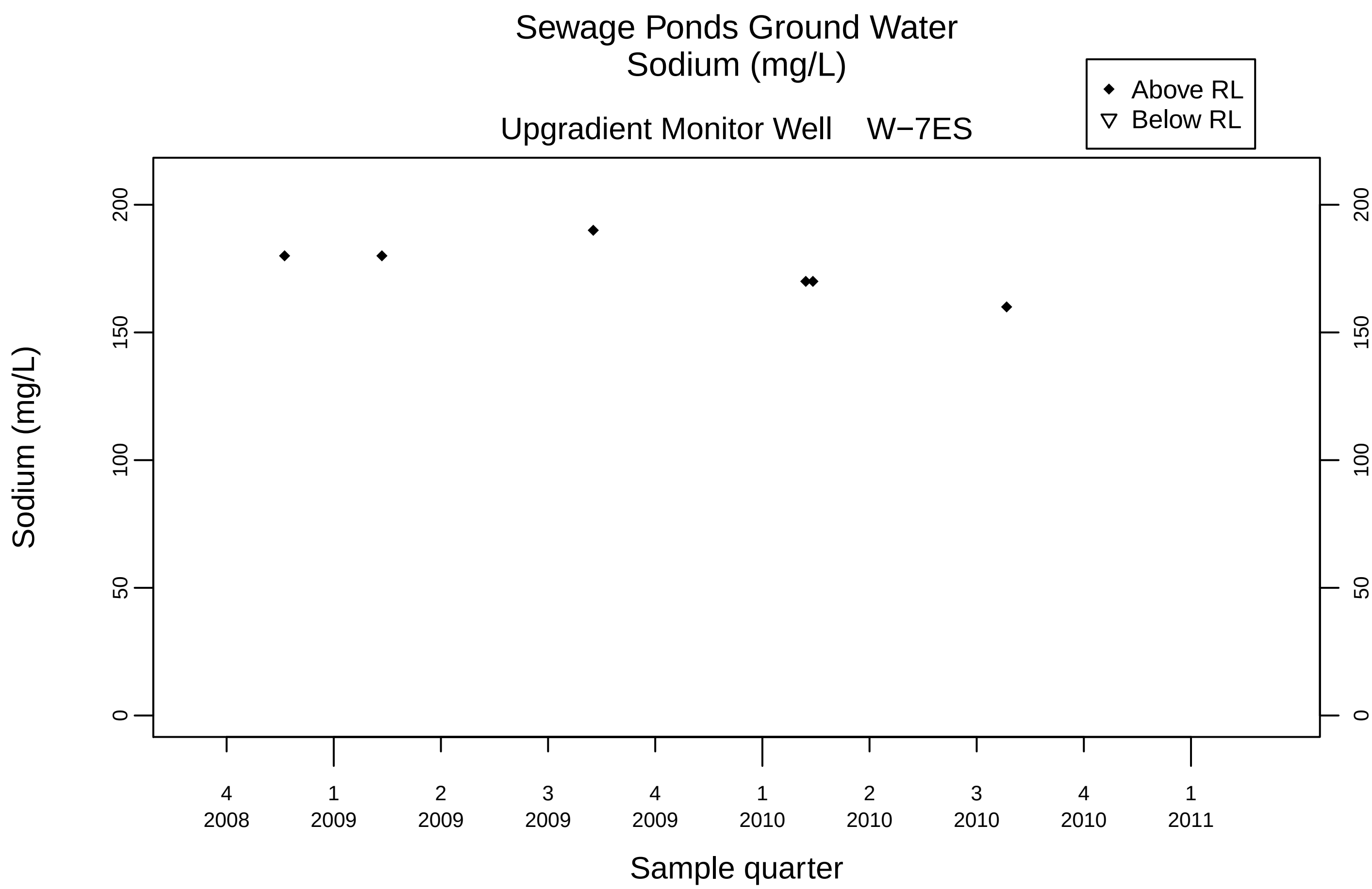


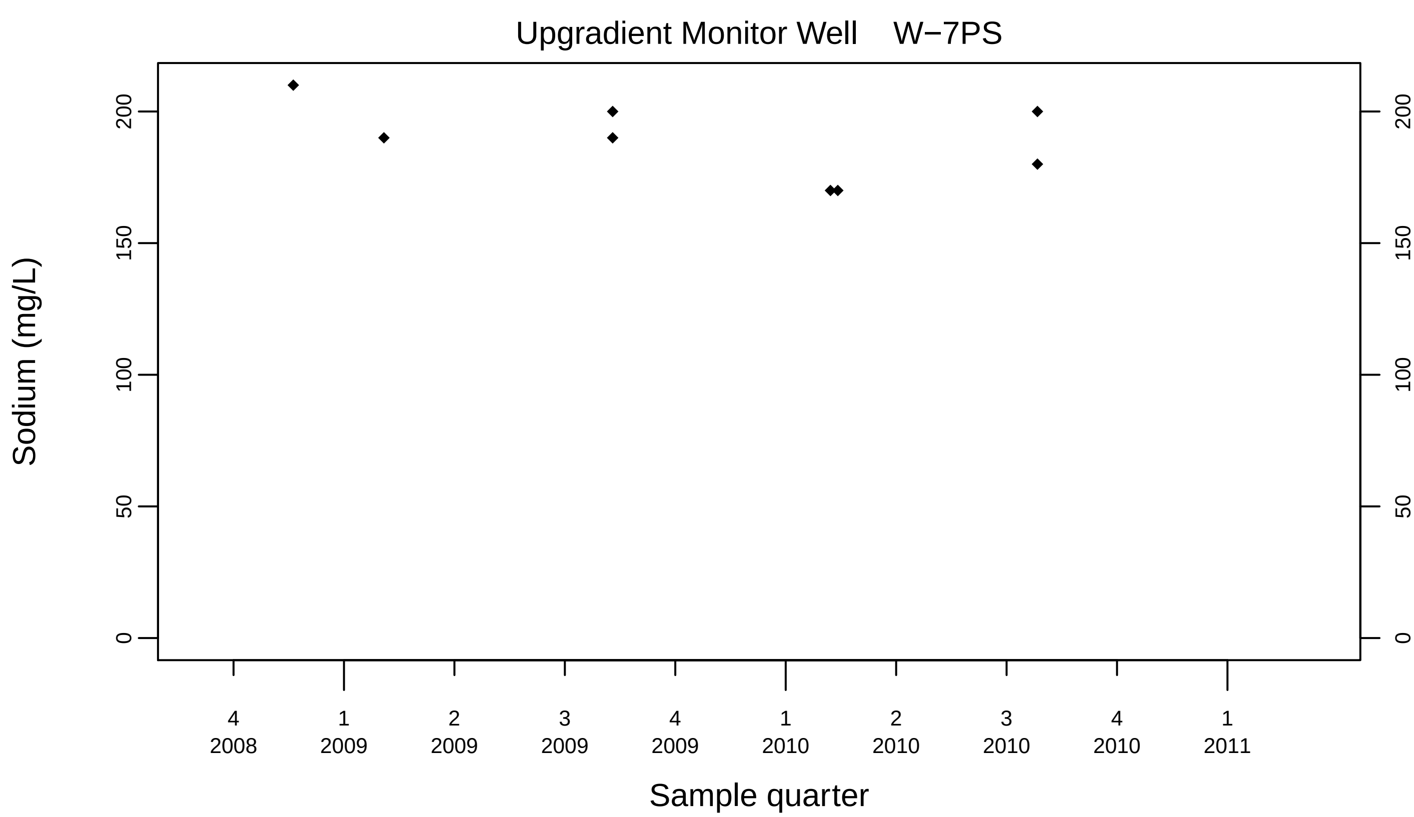


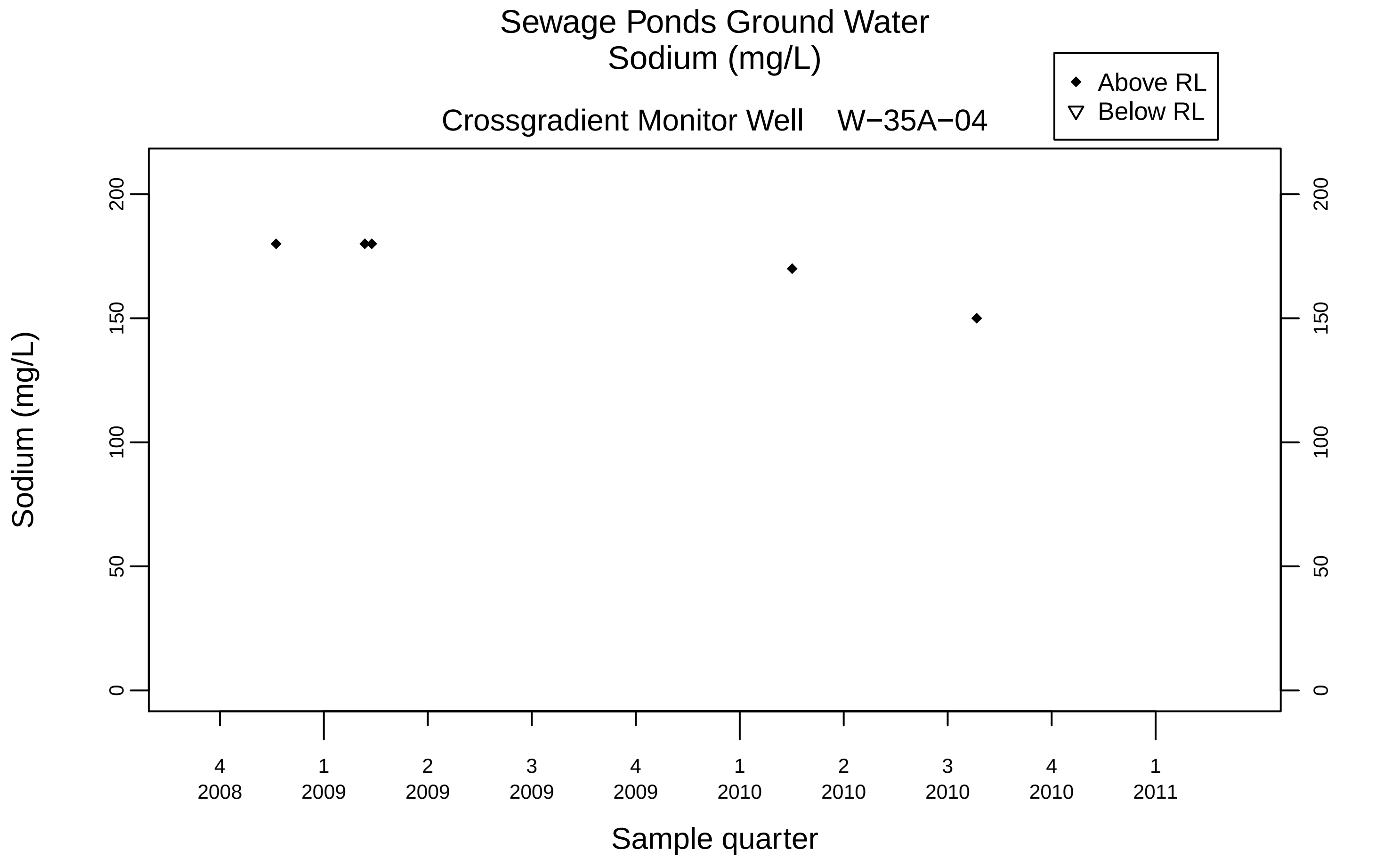

Sewage Ponds Ground Water
Zinc (ug/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Zinc (ug/L)
0
10
20
30
40
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter

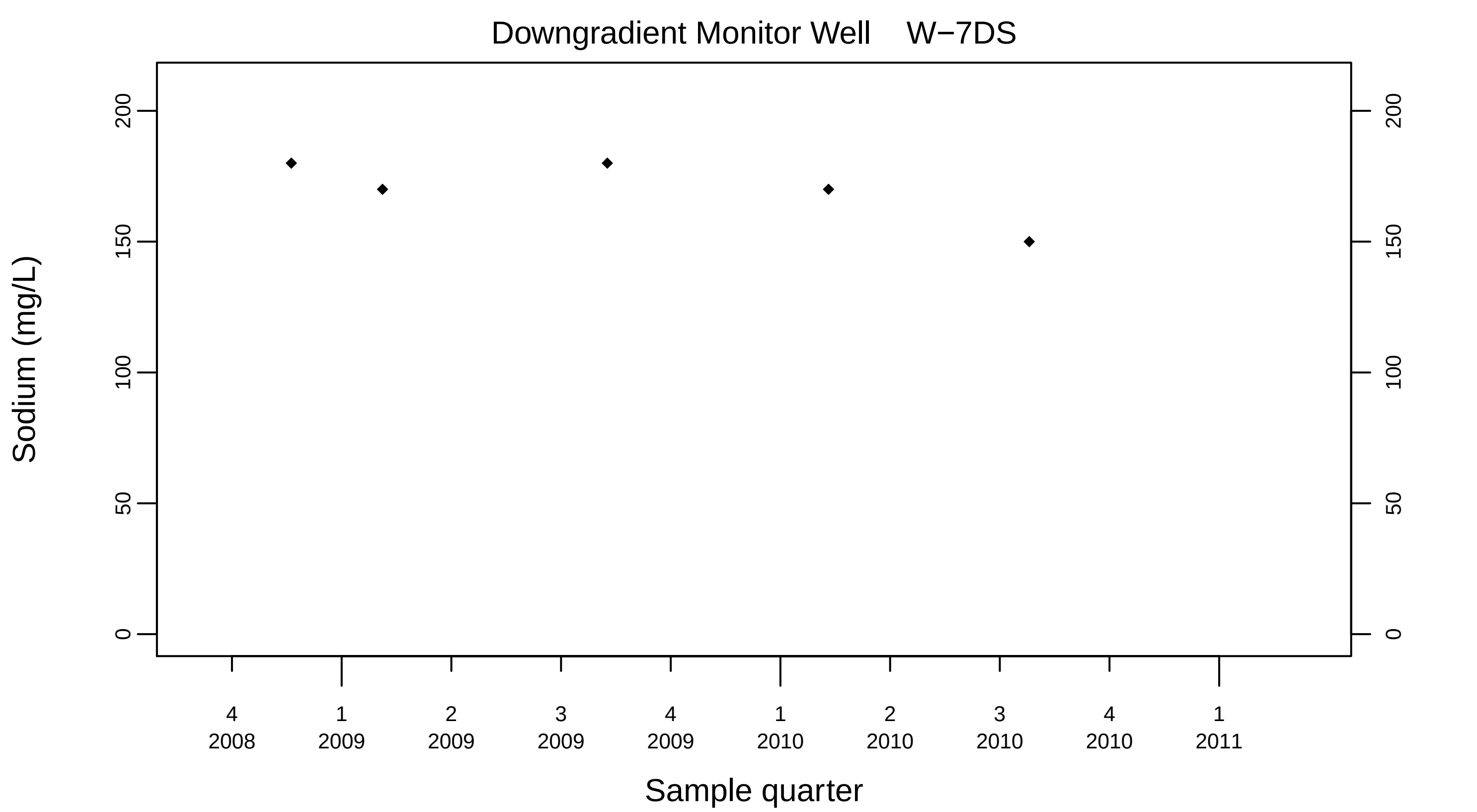

Downgradient Monitor Well W−26R−05
Zinc (ug/L)
0
10
20
30
40
3
1
2007
3
1
2008
3
1
2009
3
1
2010
3
1
2011
Sample quarter


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

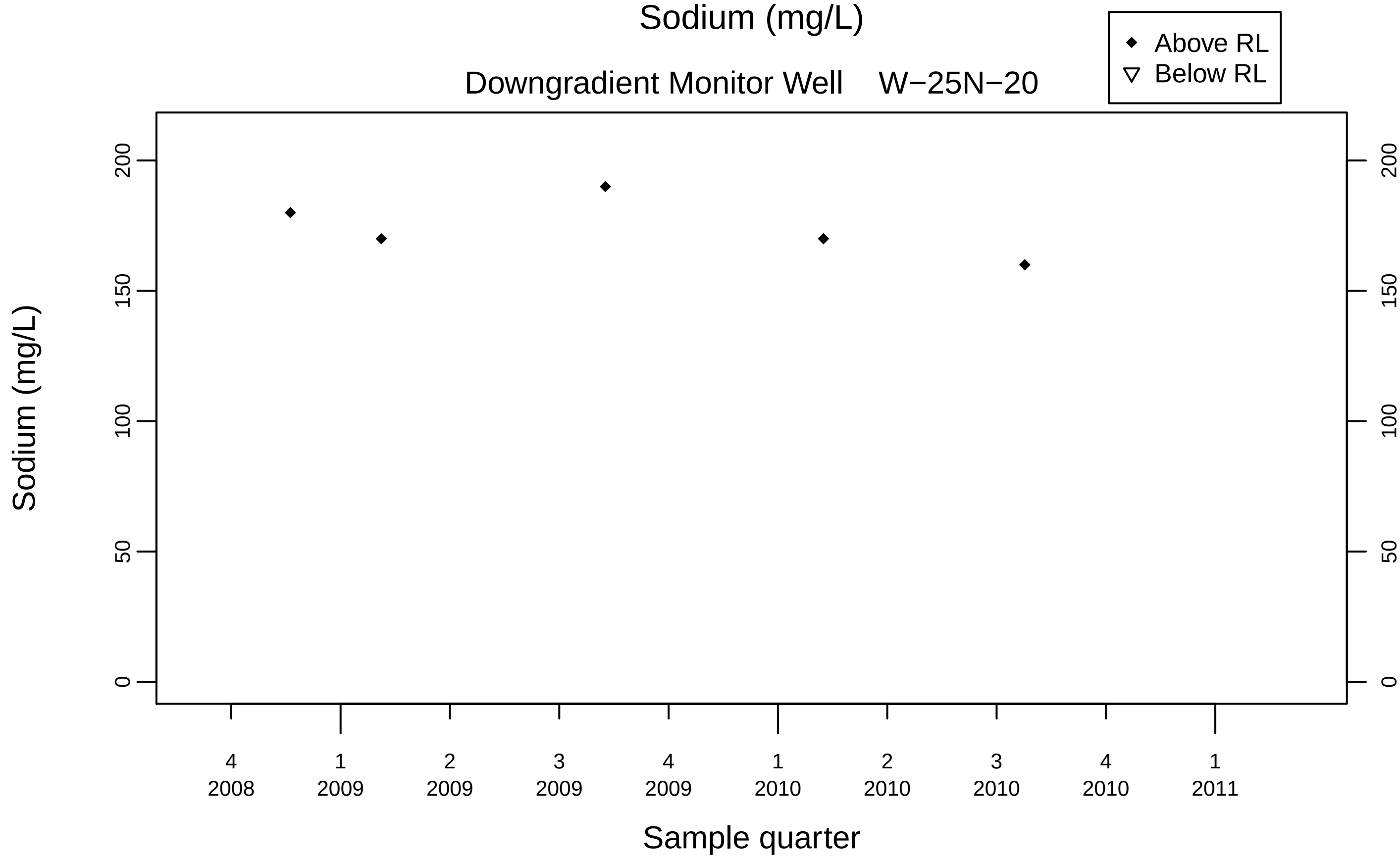

Sewage Ponds Ground Water
Sodium (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Sodium (mg/L)
0
50
100
150
200
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

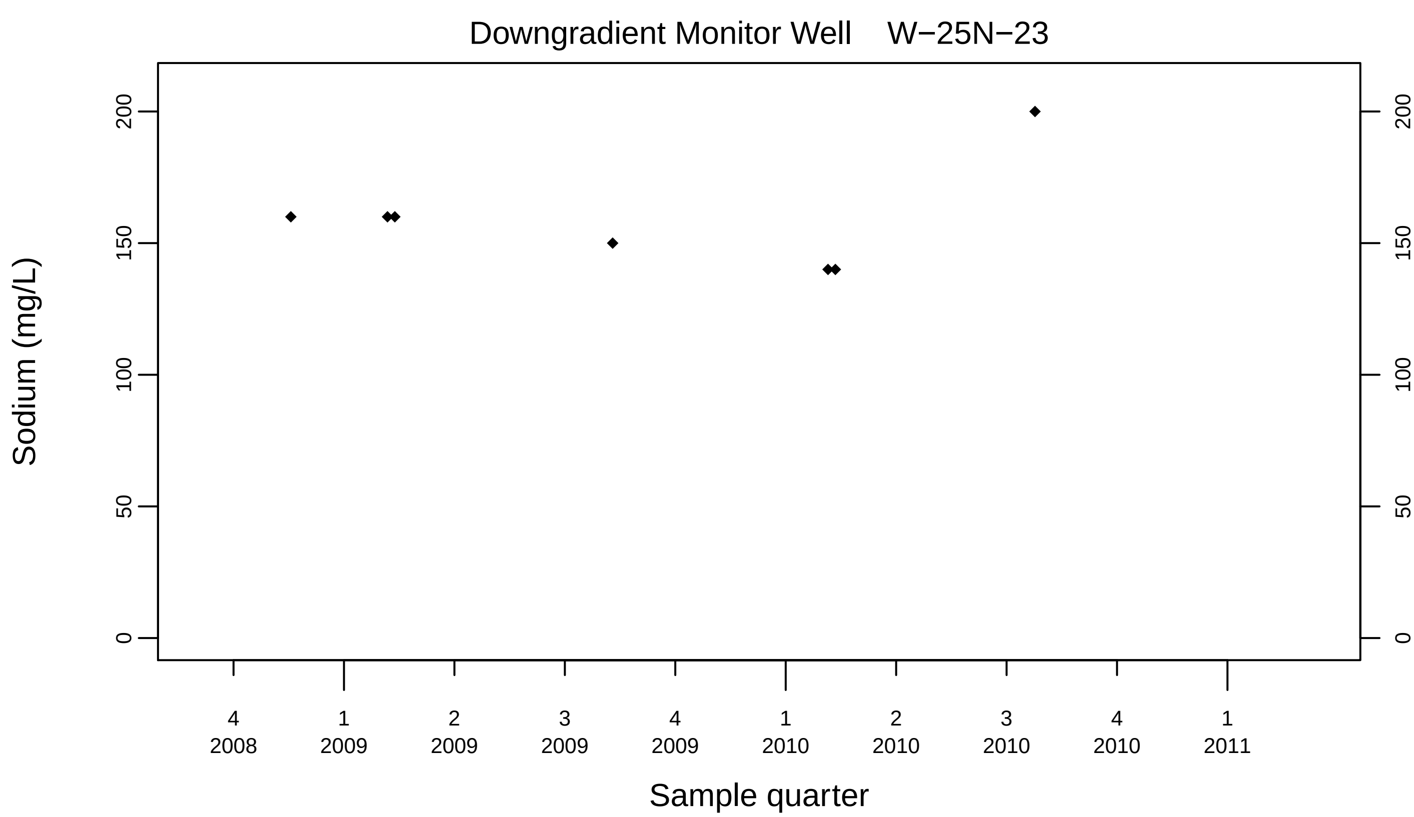

Upgradient Monitor Well W−7PS
Sodium (mg/L)
0
50
100
150
200
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

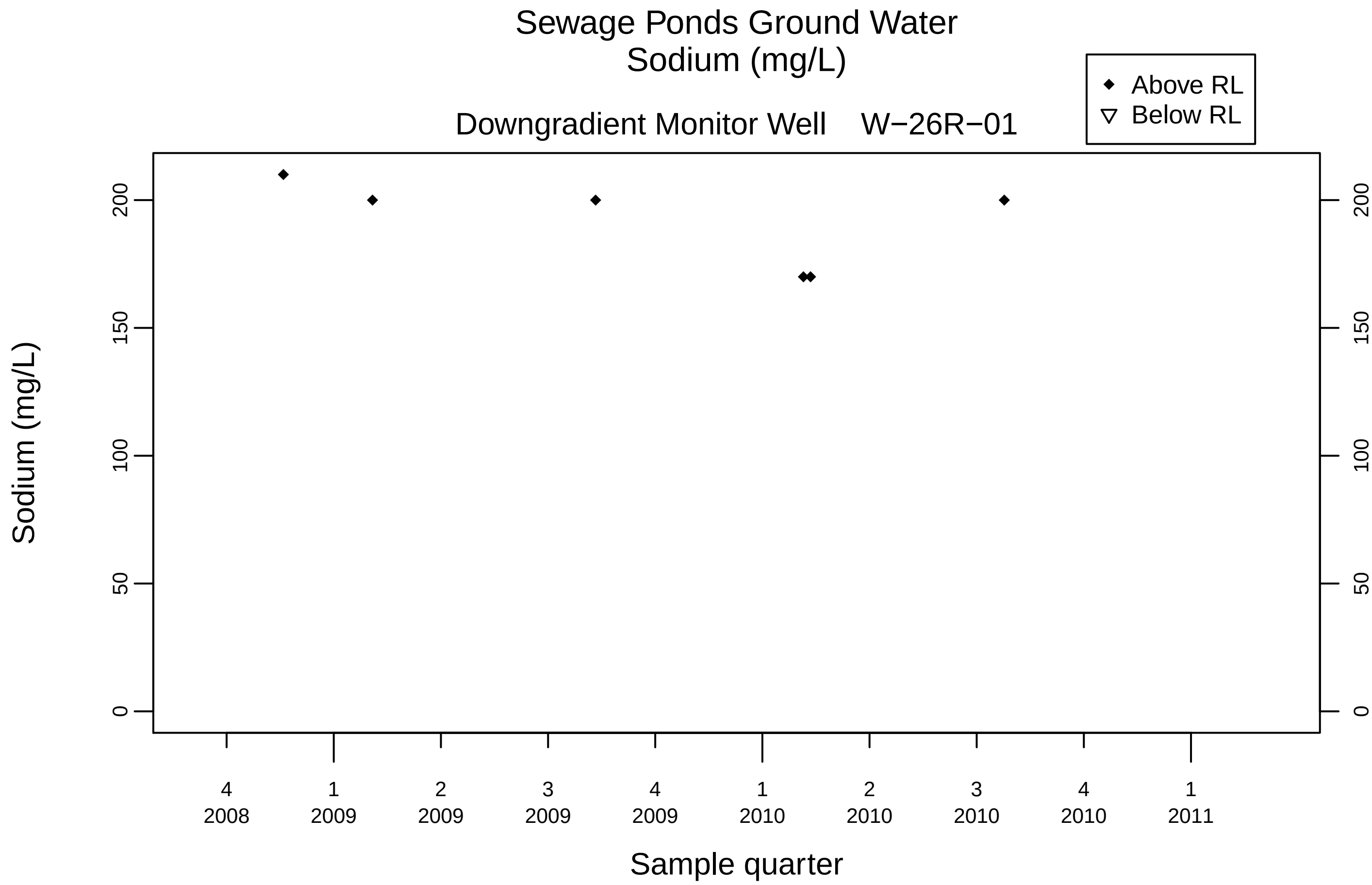

Sewage Ponds Ground Water
Sodium (mg/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Sodium (mg/L)
0
50
100
150
200
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

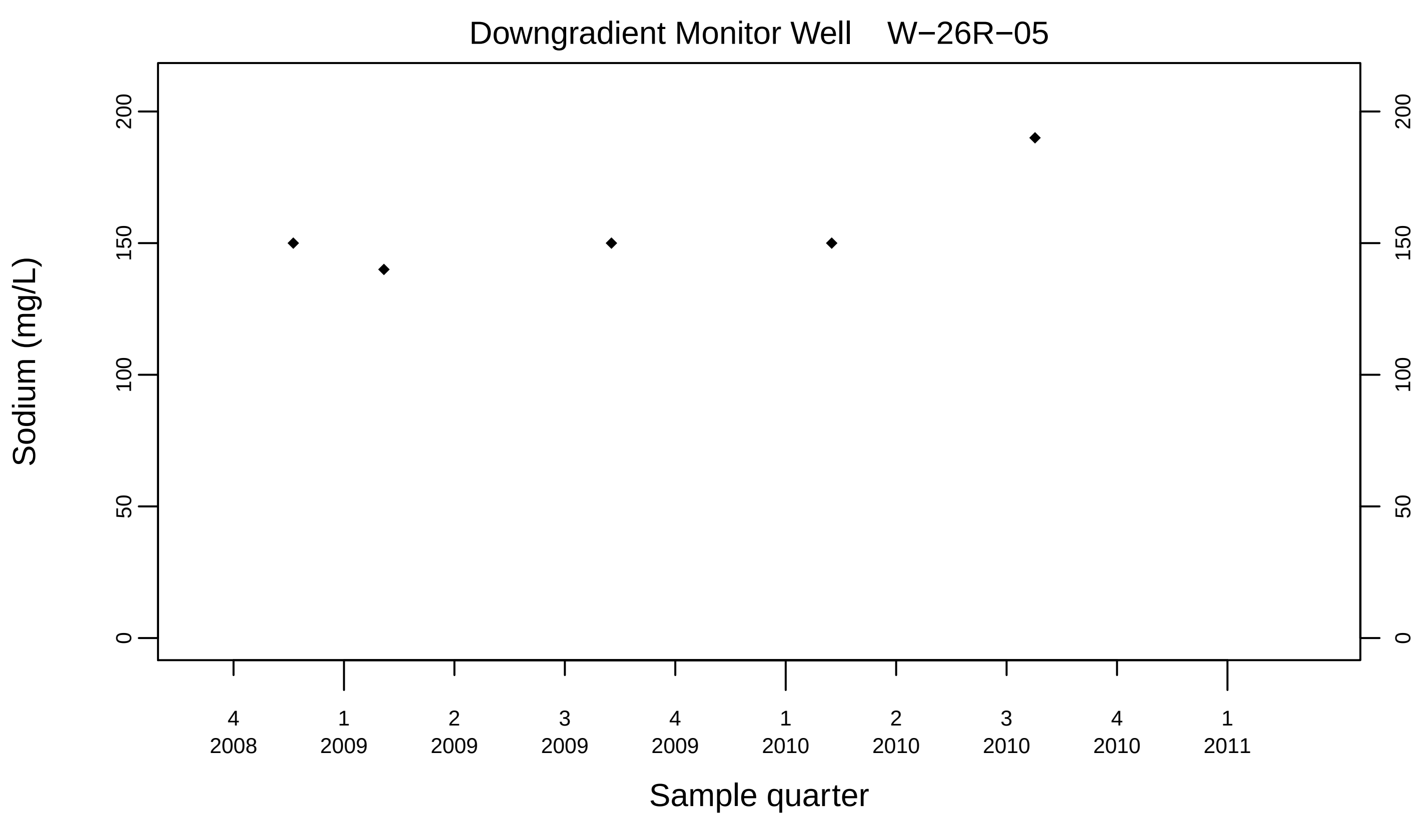

Downgradient Monitor Well W−7DS
Sodium (mg/L)
0
50
100
150
200
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

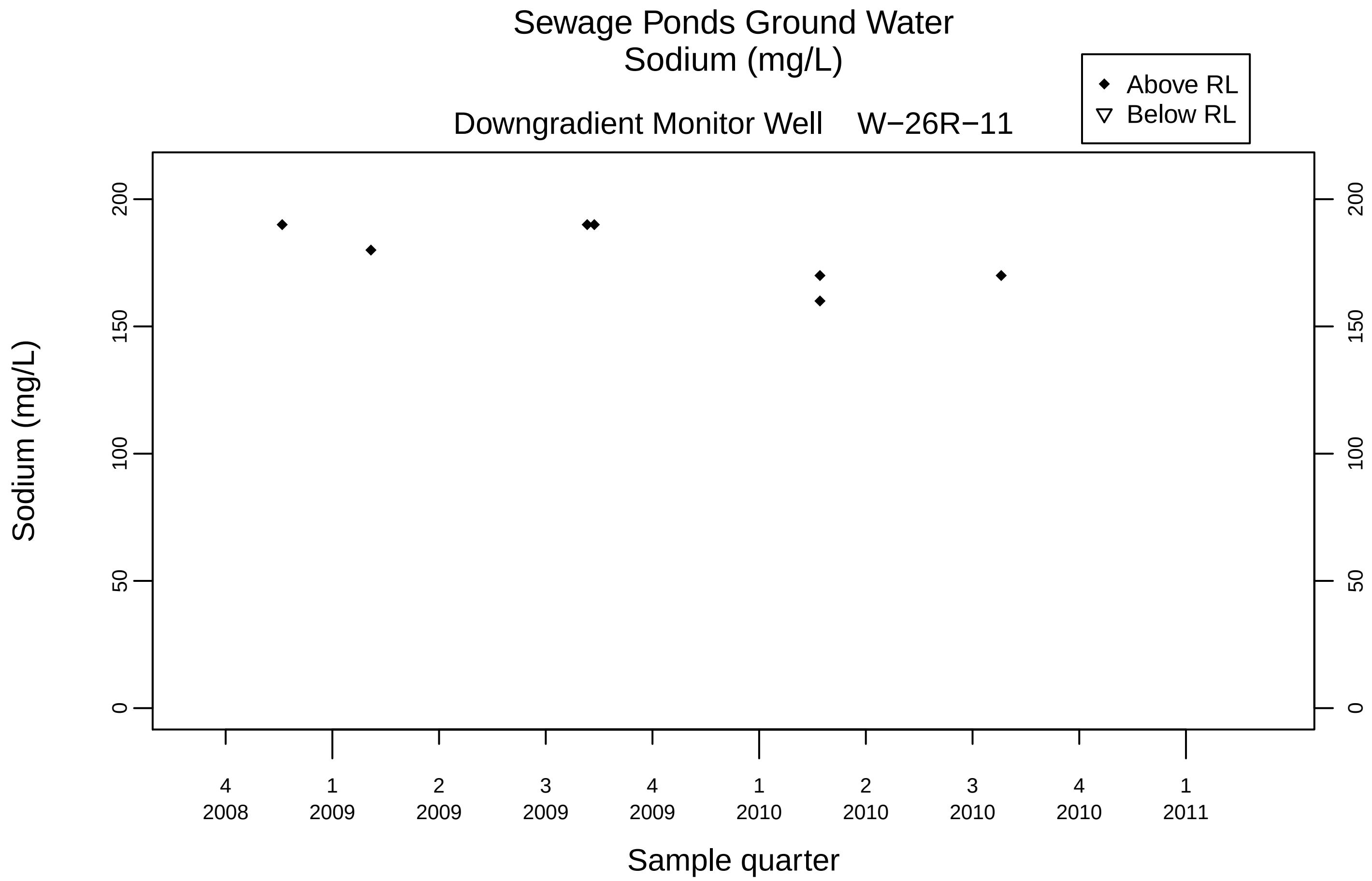
Sewage Ponds Ground Water
Sodium (mg/L)



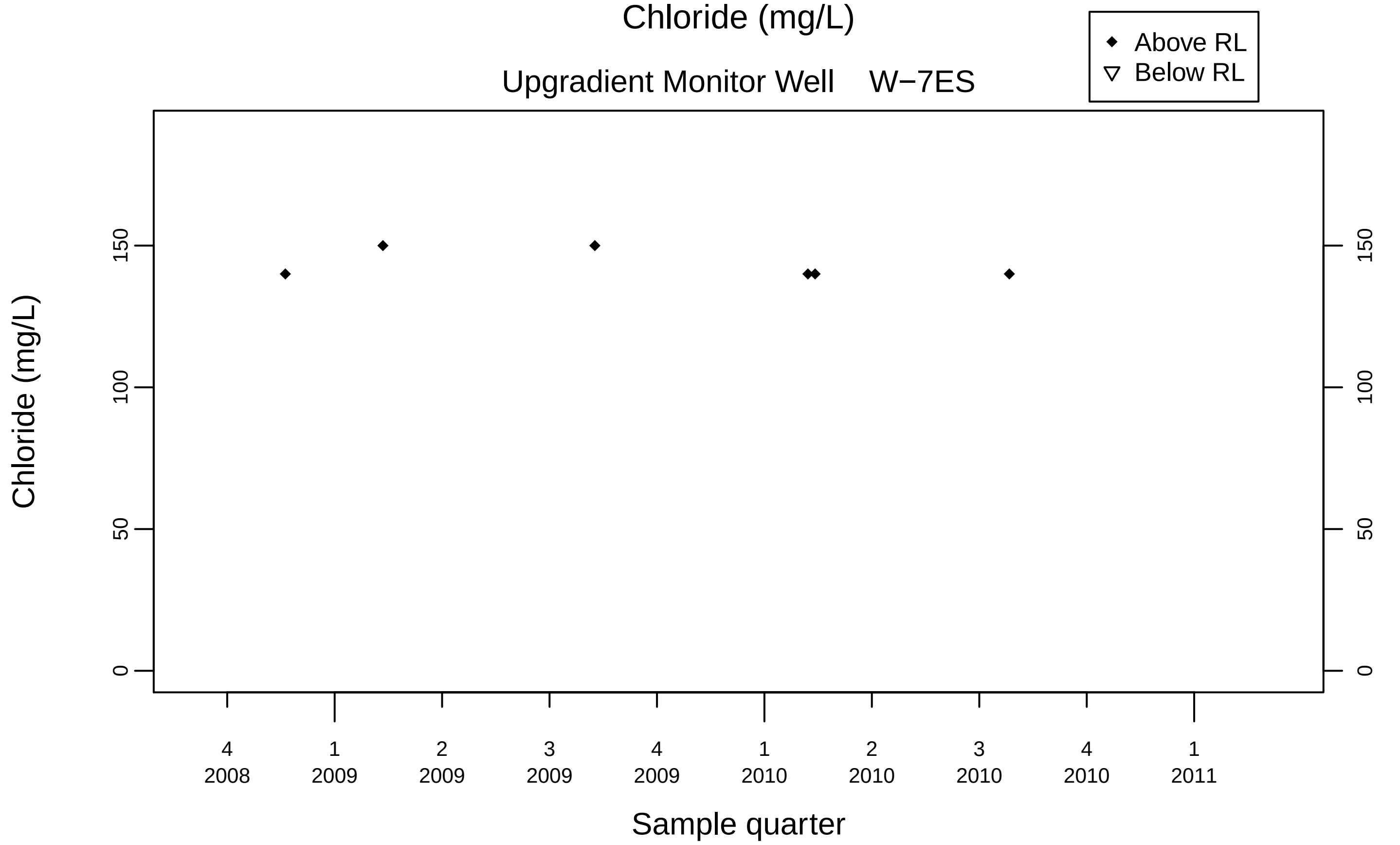


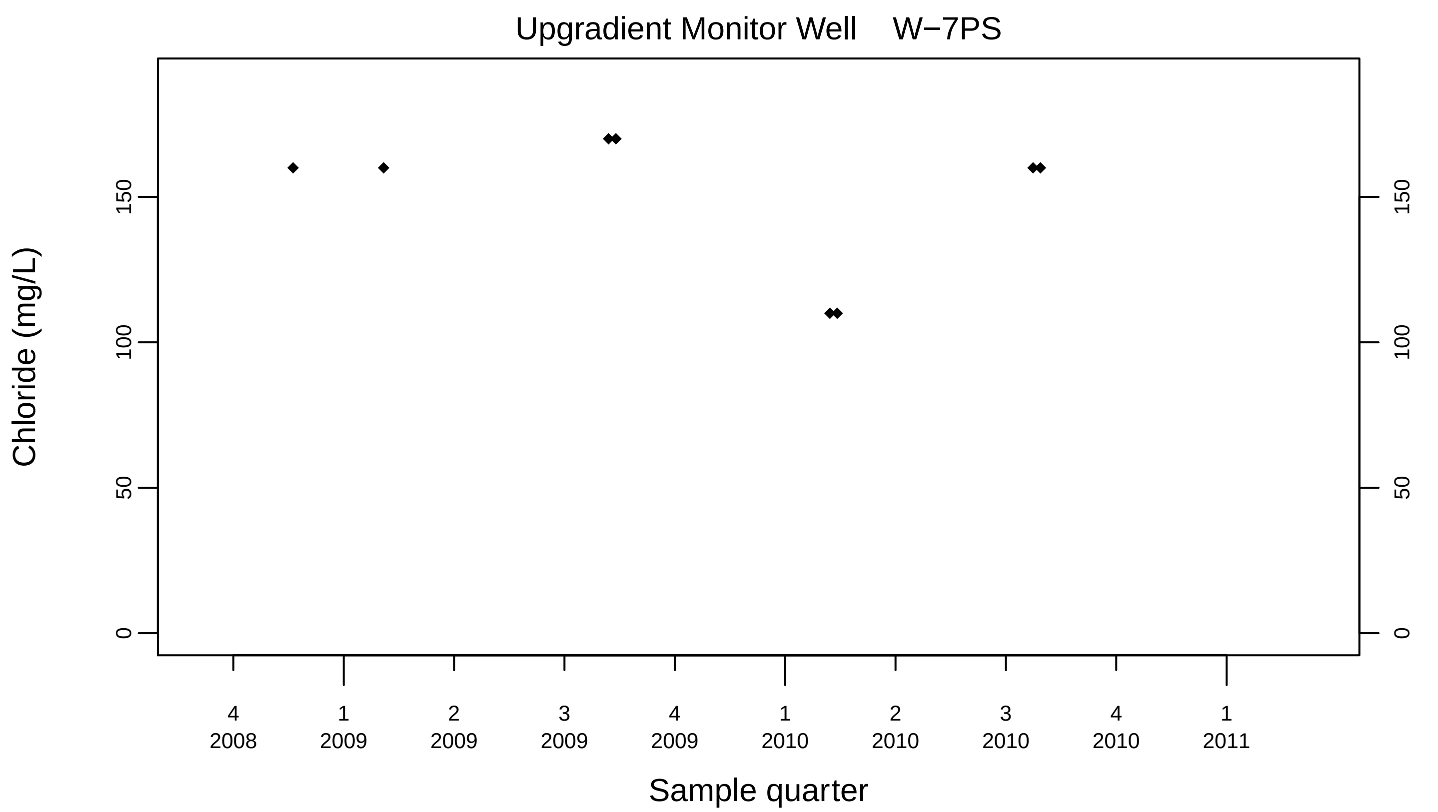

Sewage Ponds Ground Water
Sodium (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Sodium (mg/L)
0
50
100
150
200
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

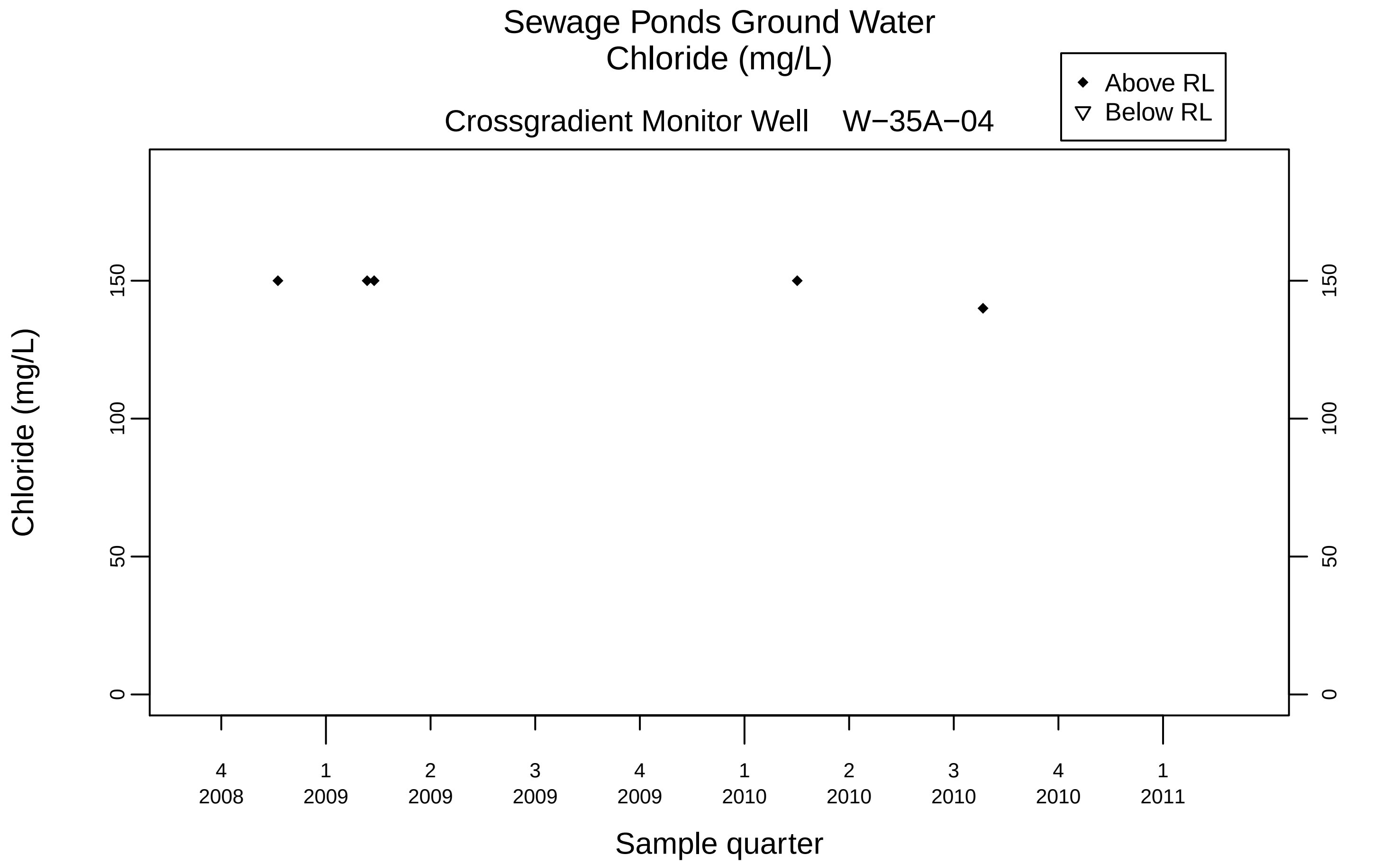

Downgradient Monitor Well W−26R−05
Sodium (mg/L)
0
50
100
150
200
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

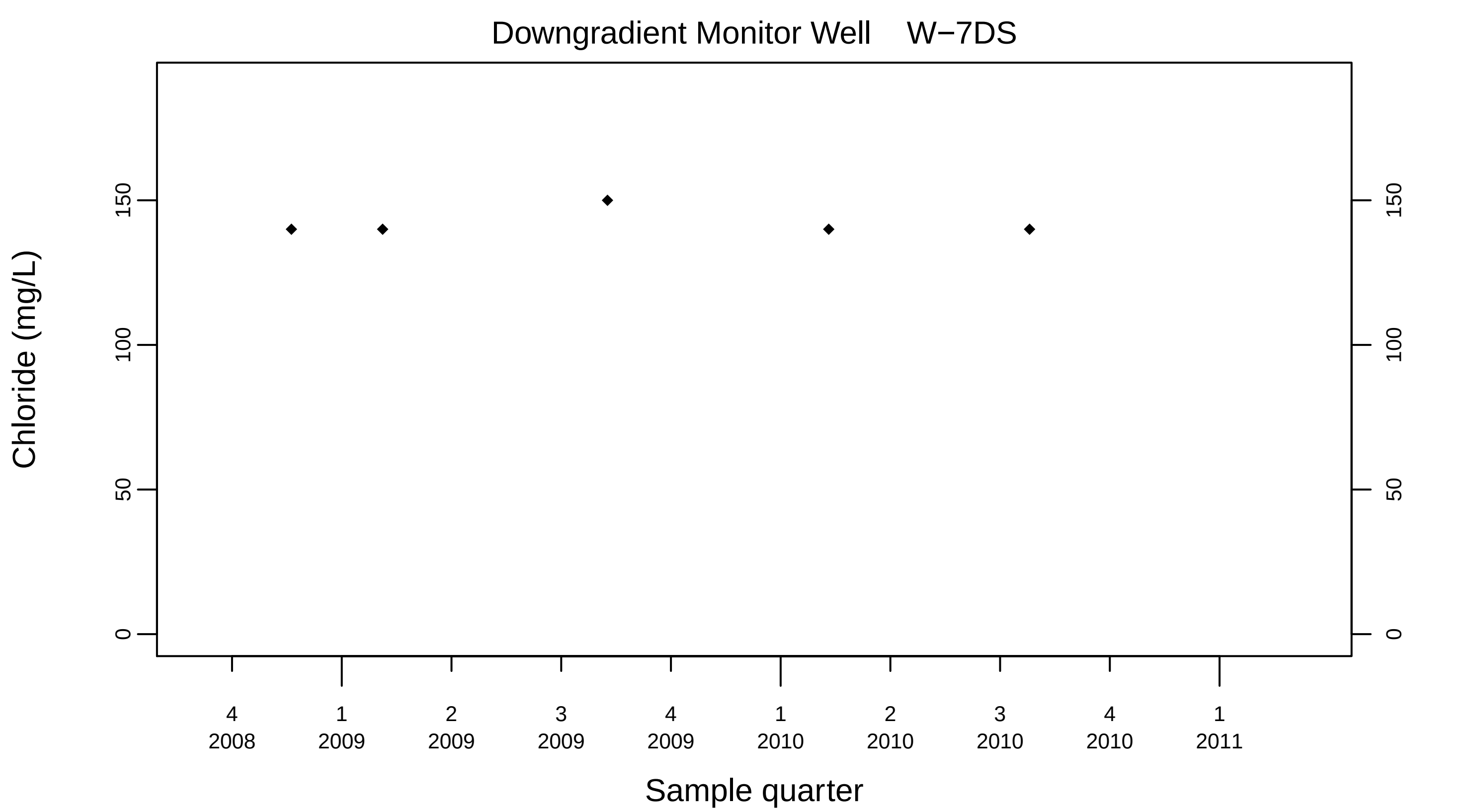

Sewage Ponds Ground Water
Sodium (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Sodium (mg/L)
0
50
100
150
200
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

Sewage Ponds Ground Water
Chloride (mg/L)

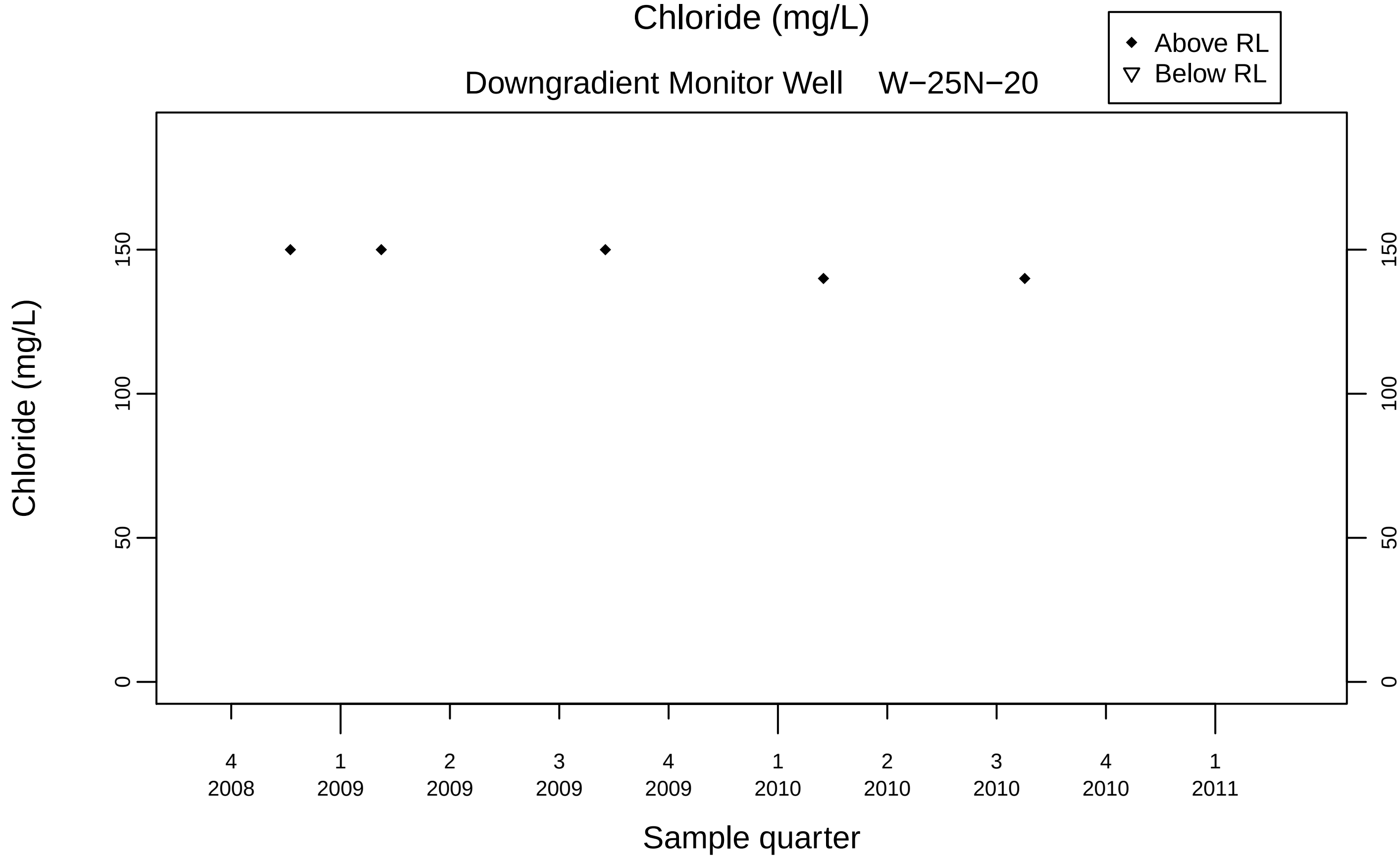


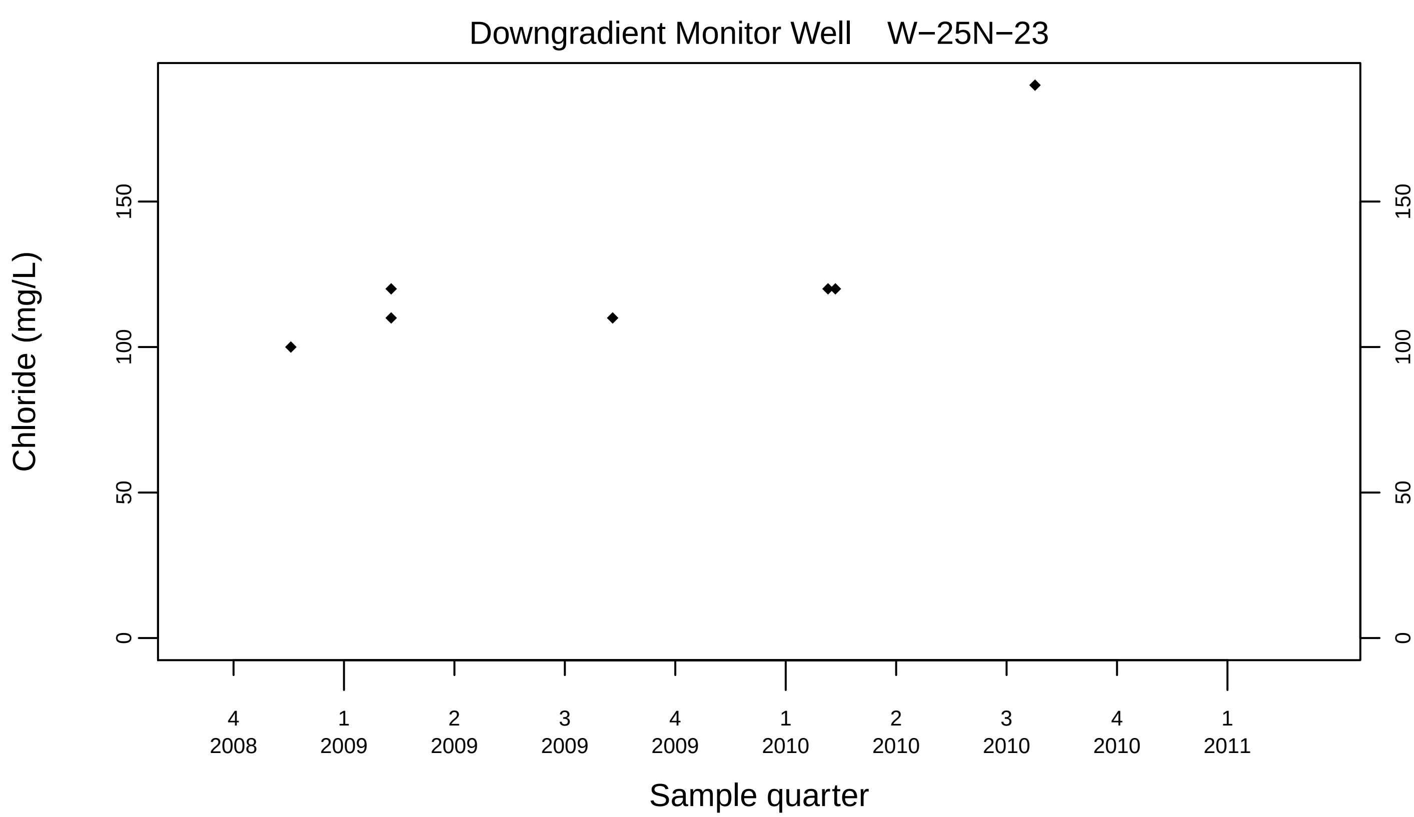



Sewage Ponds Ground Water
Chloride (mg/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Chloride (mg/L)
0
50
100
150
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

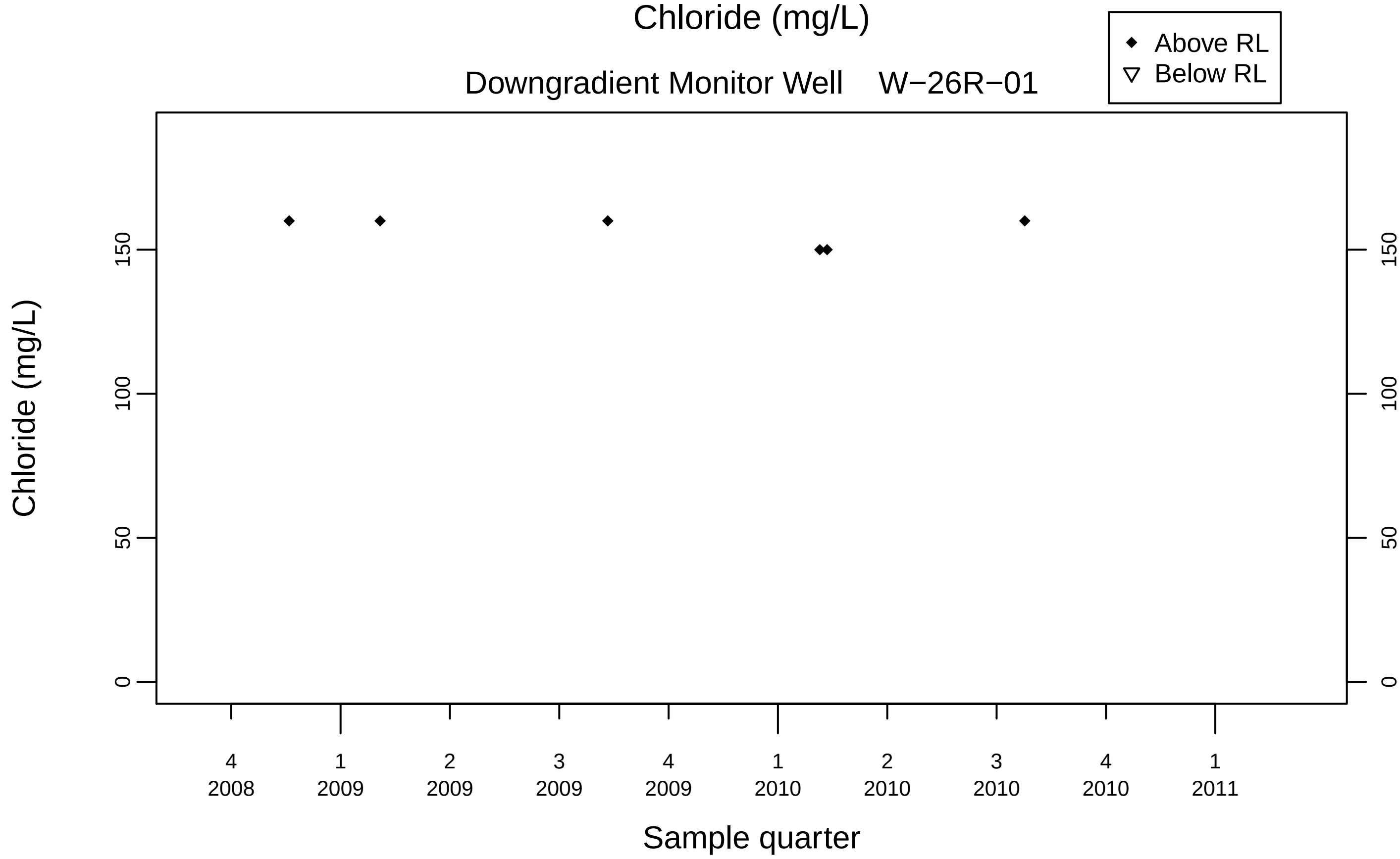

Downgradient Monitor Well W−7DS
Chloride (mg/L)
0
50
100
150
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

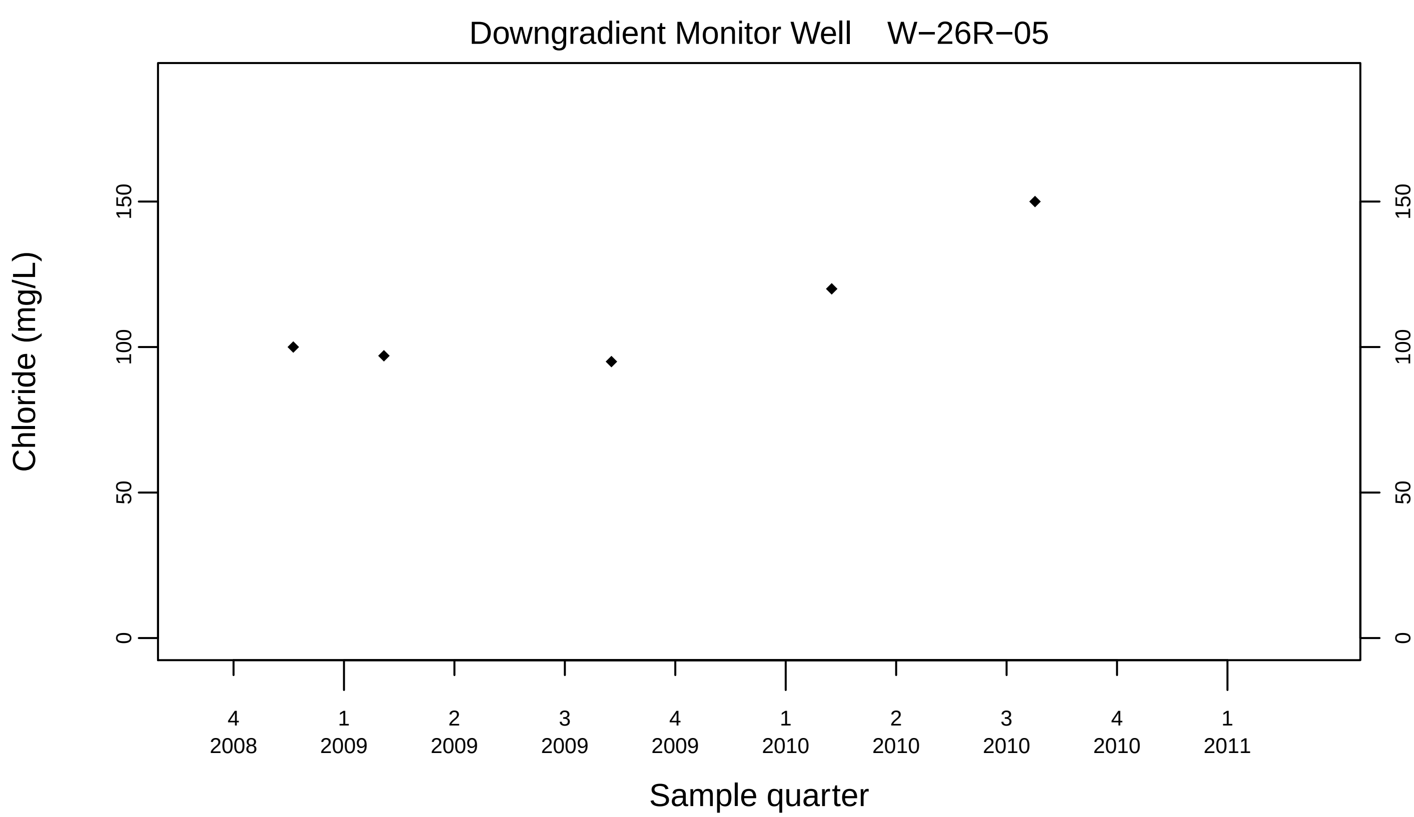
Sewage Ponds Ground Water
Chloride (mg/L)

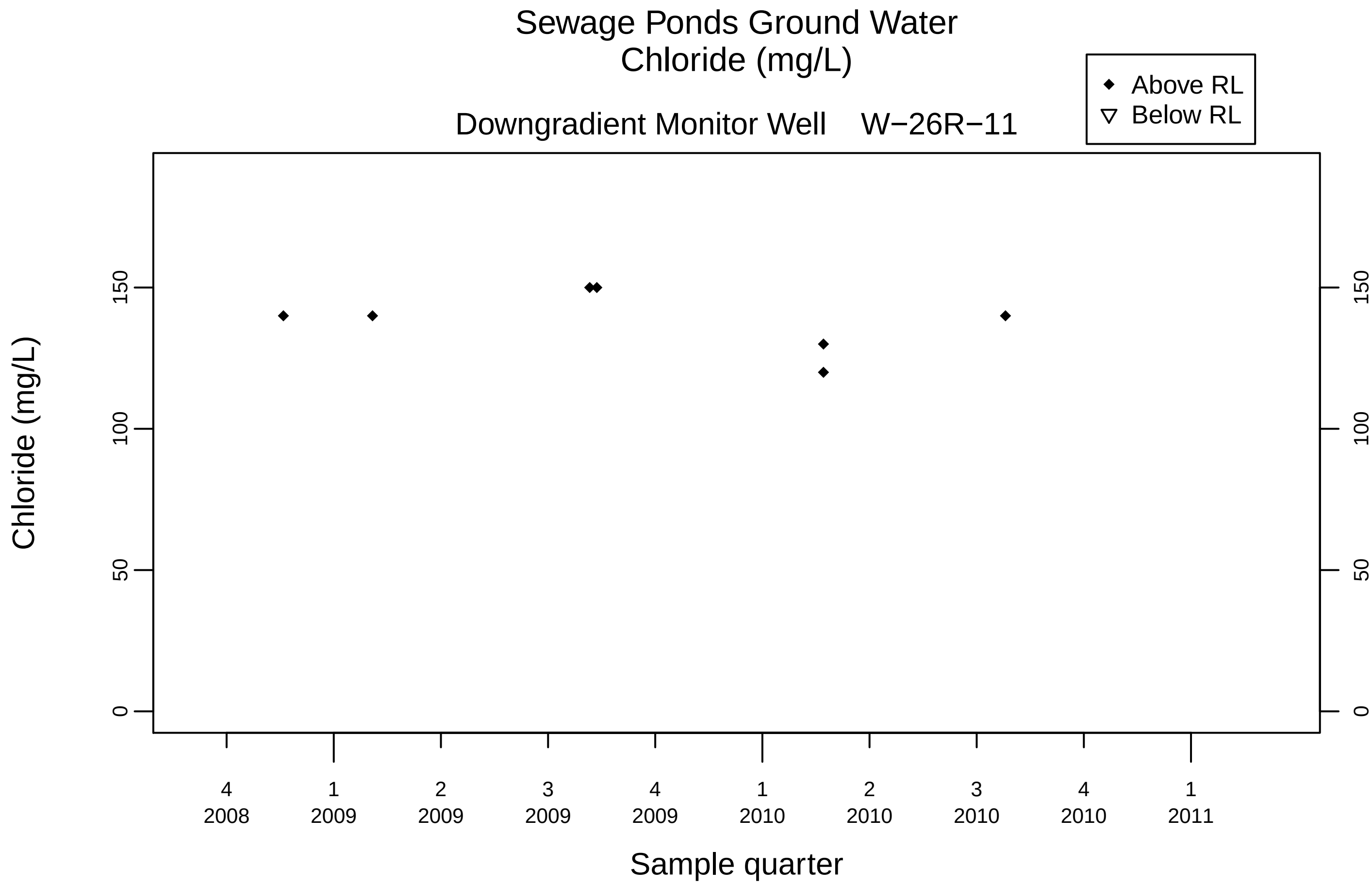




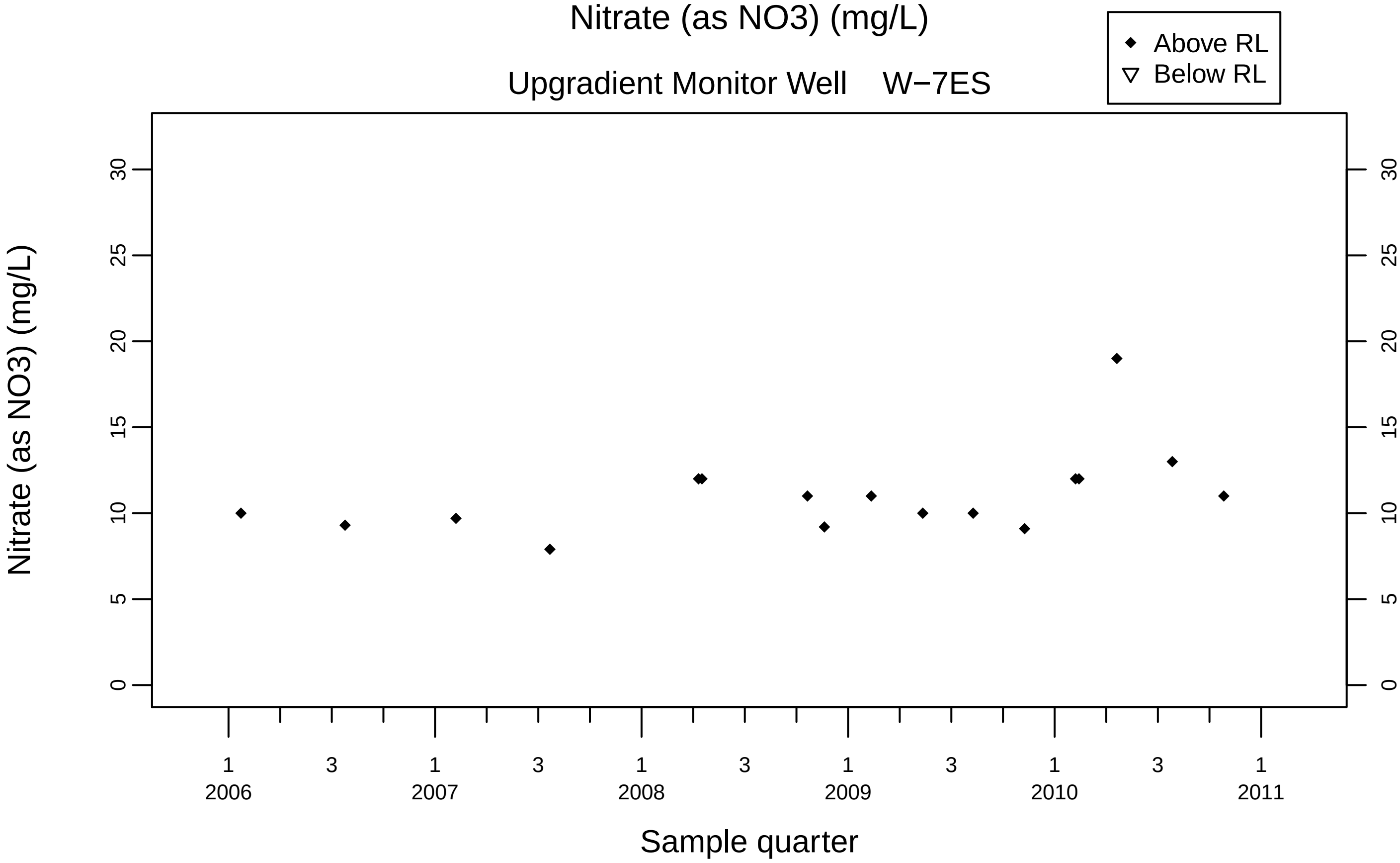
Sewage Ponds Ground Water
Chloride (mg/L)

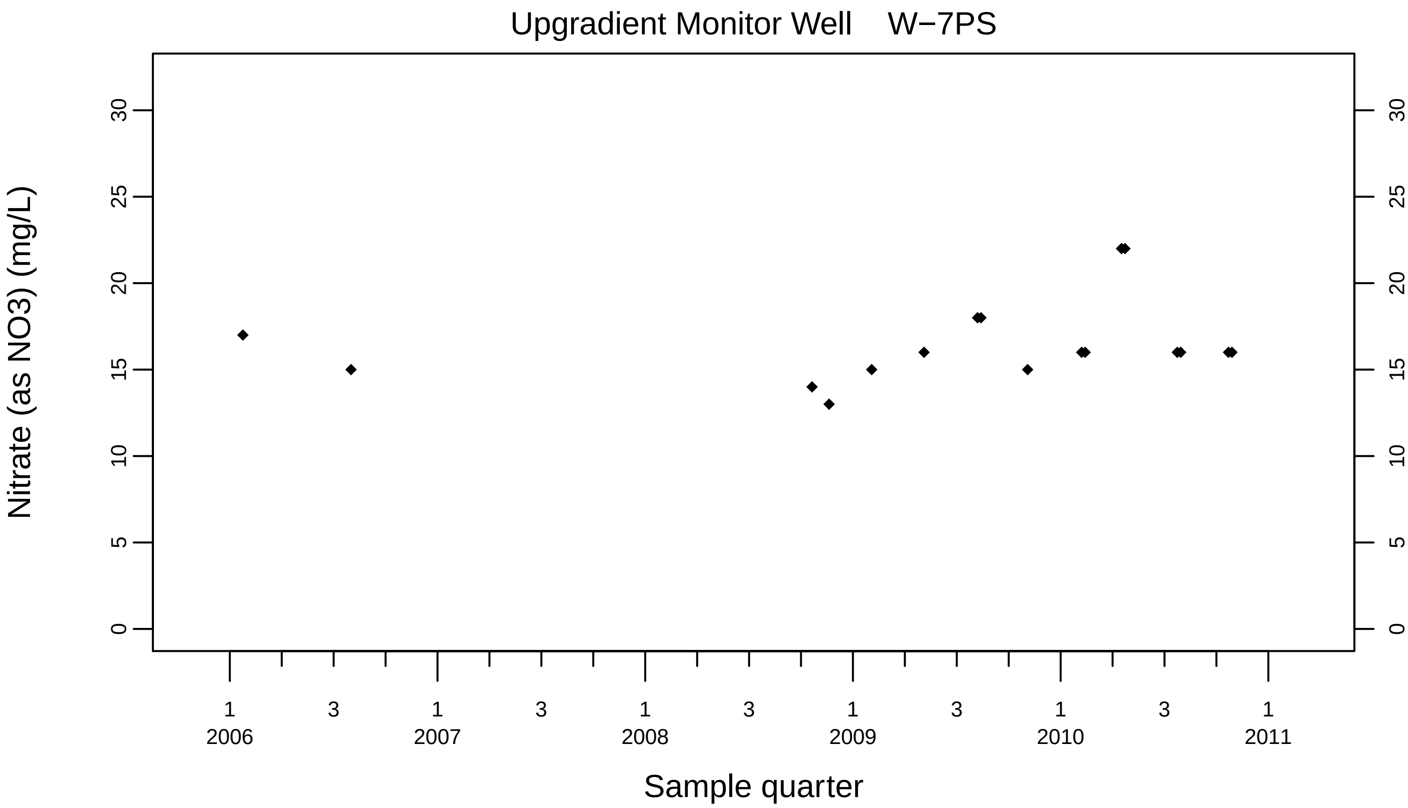




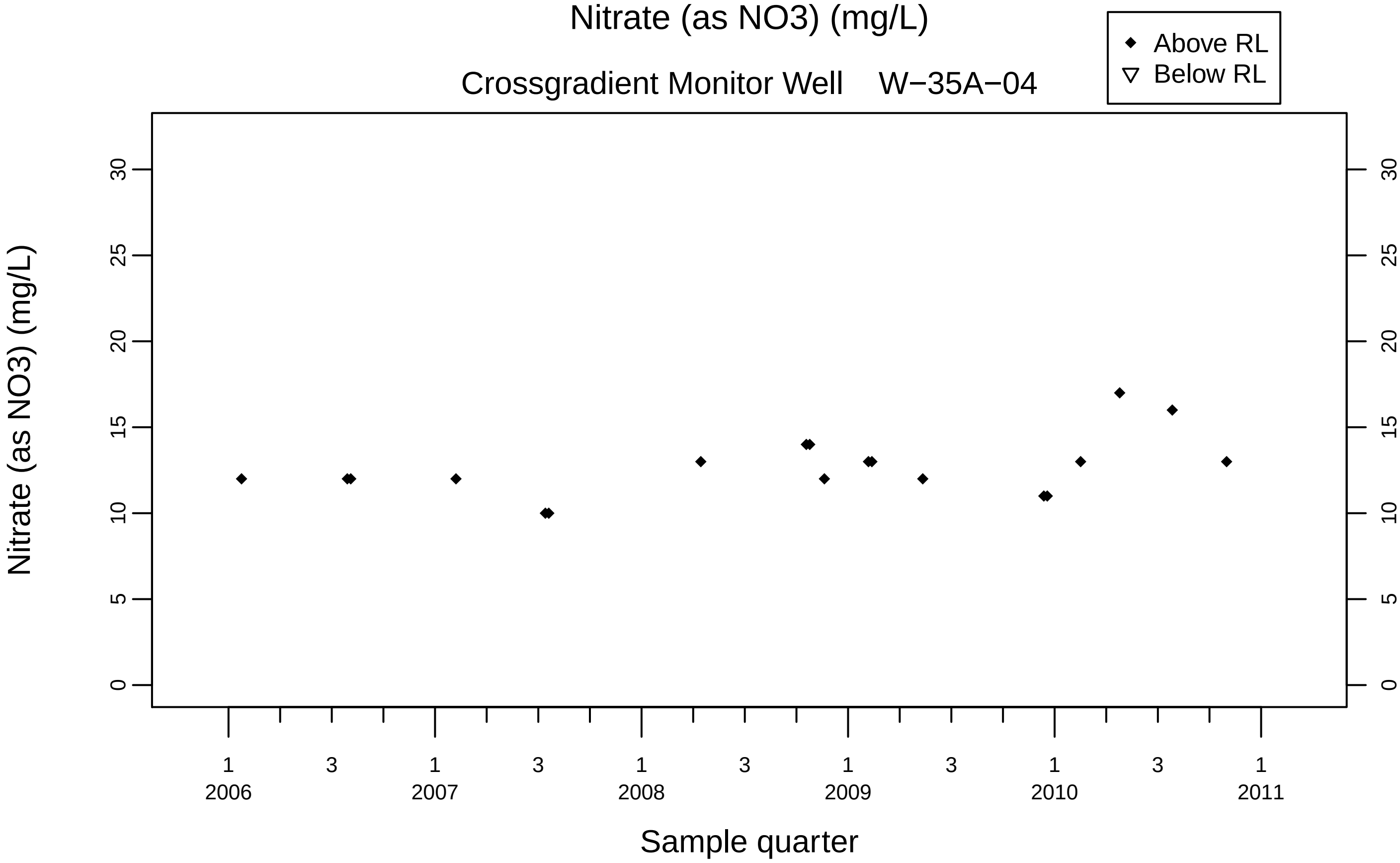

Sewage Ponds Ground Water
Chloride (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Chloride (mg/L)
0
50
100
150
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

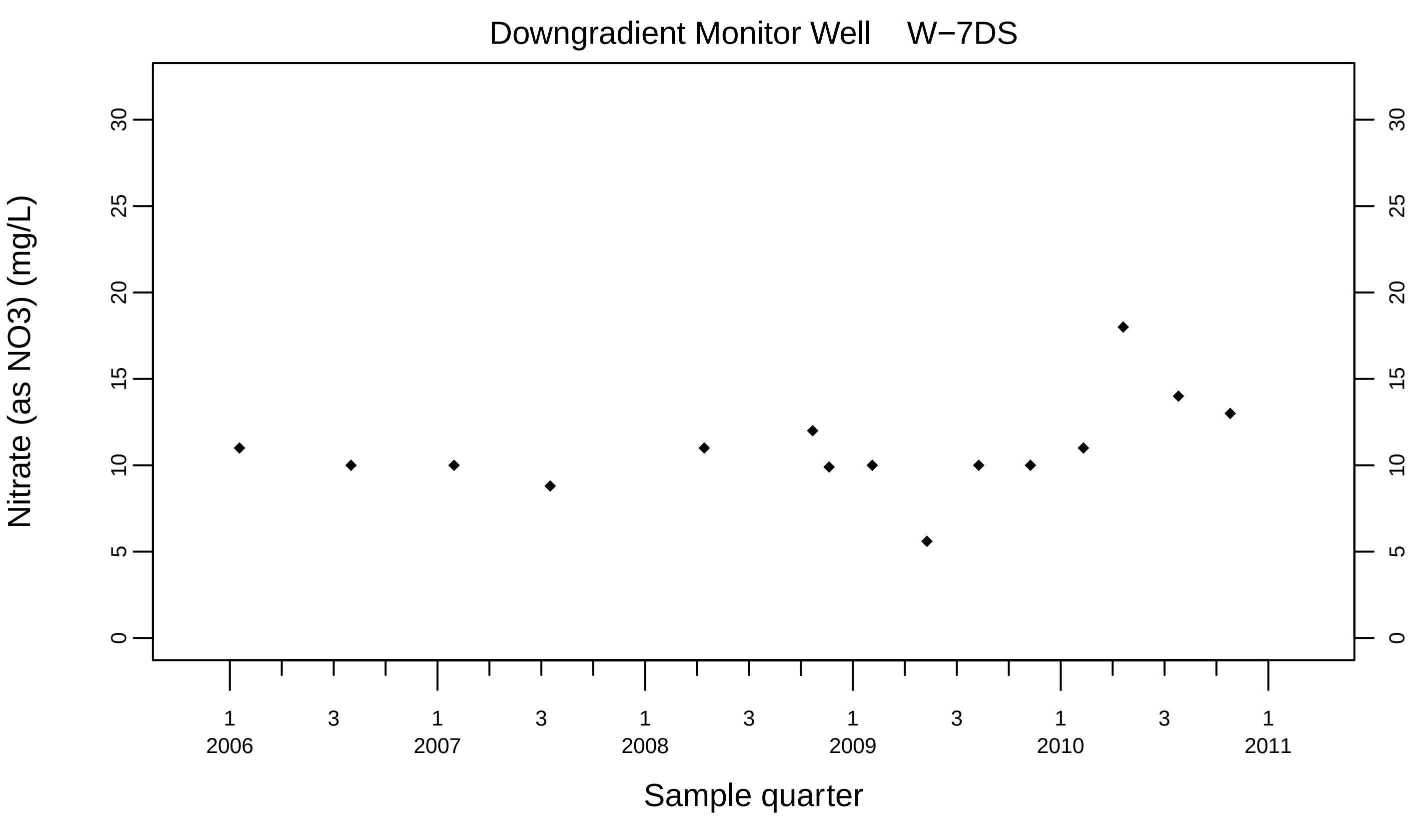
Sewage Ponds Ground Water
Nitrate (as NO3) (mg/L)



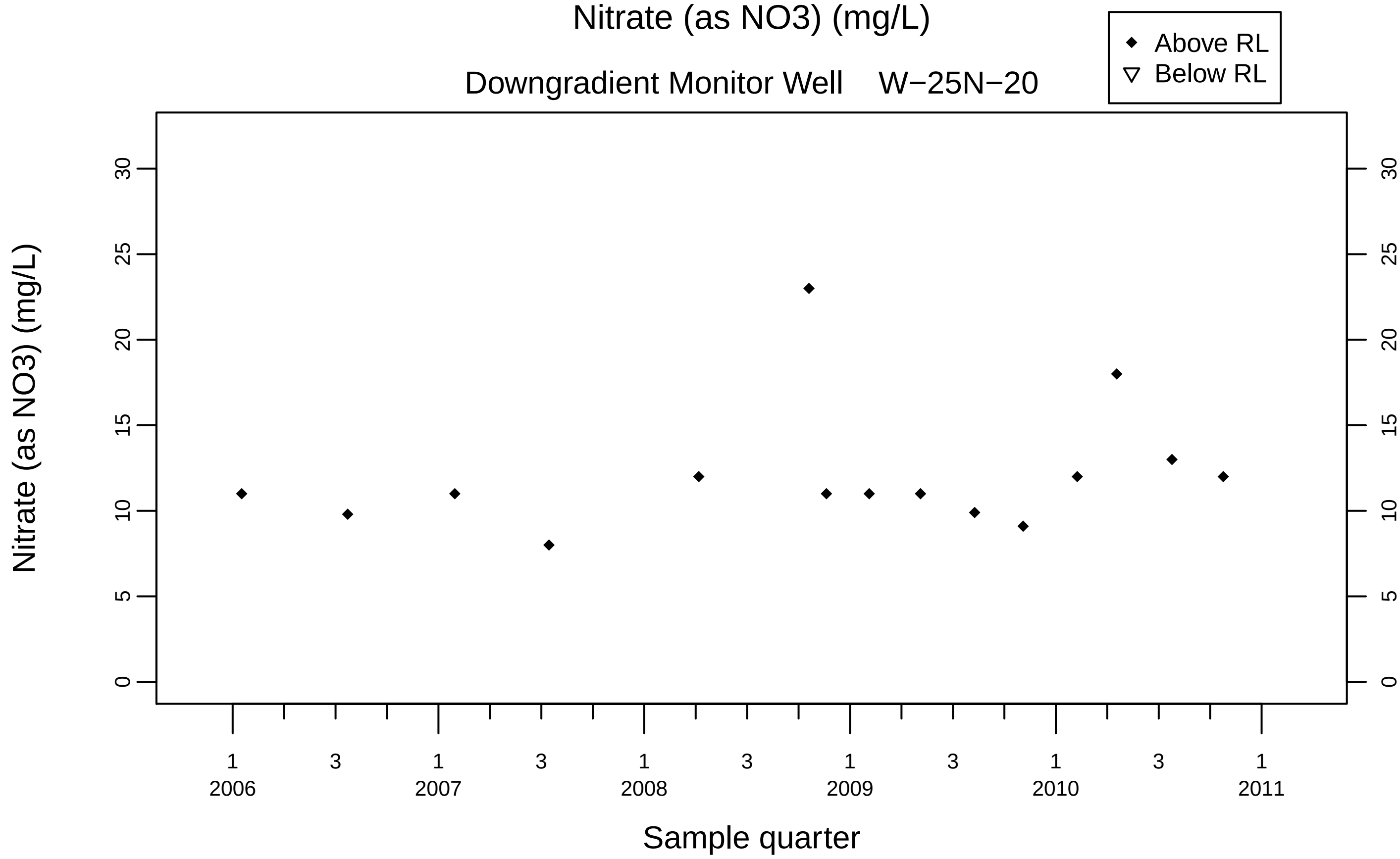


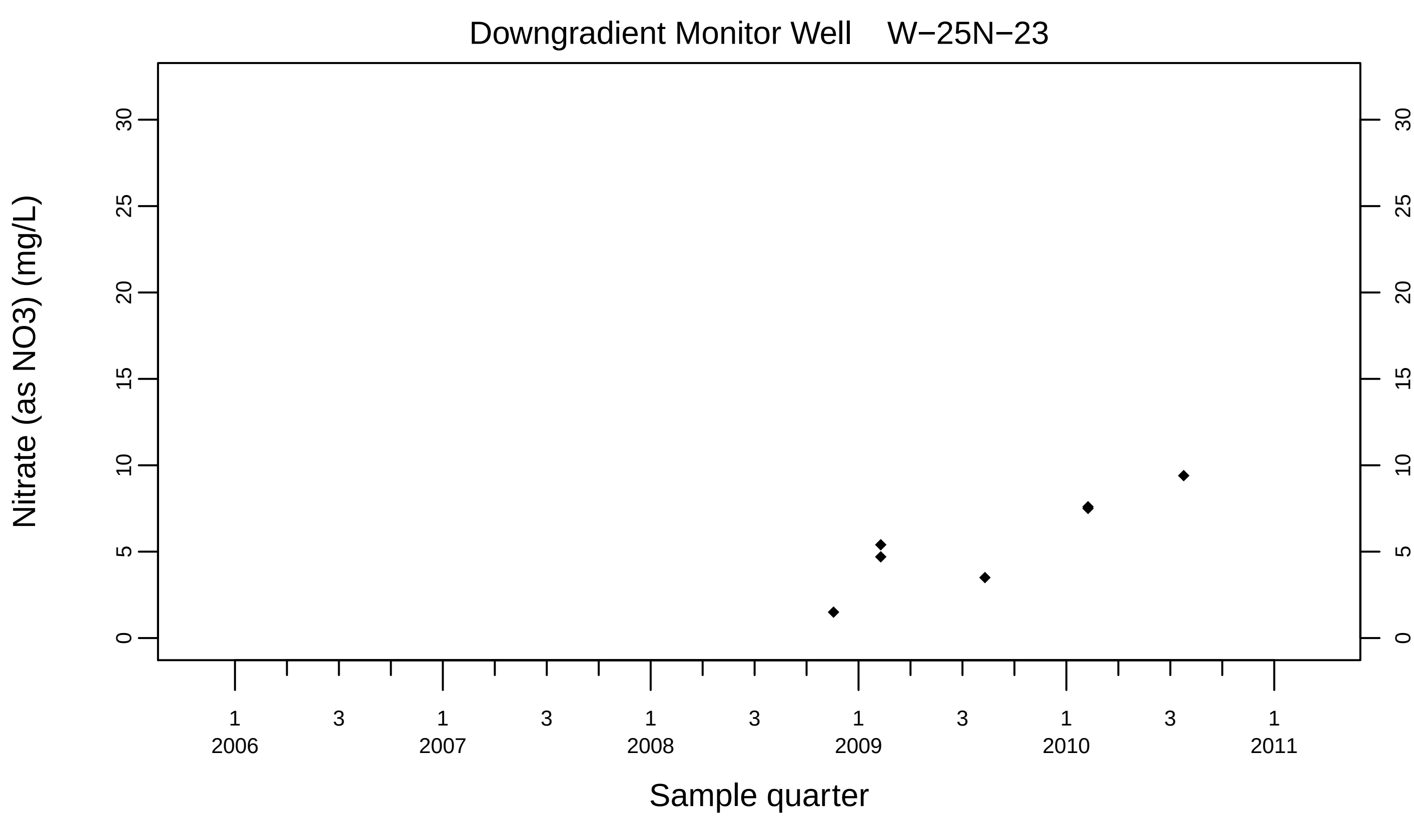
Sewage Ponds Ground Water
Nitrate (as NO3) (mg/L)



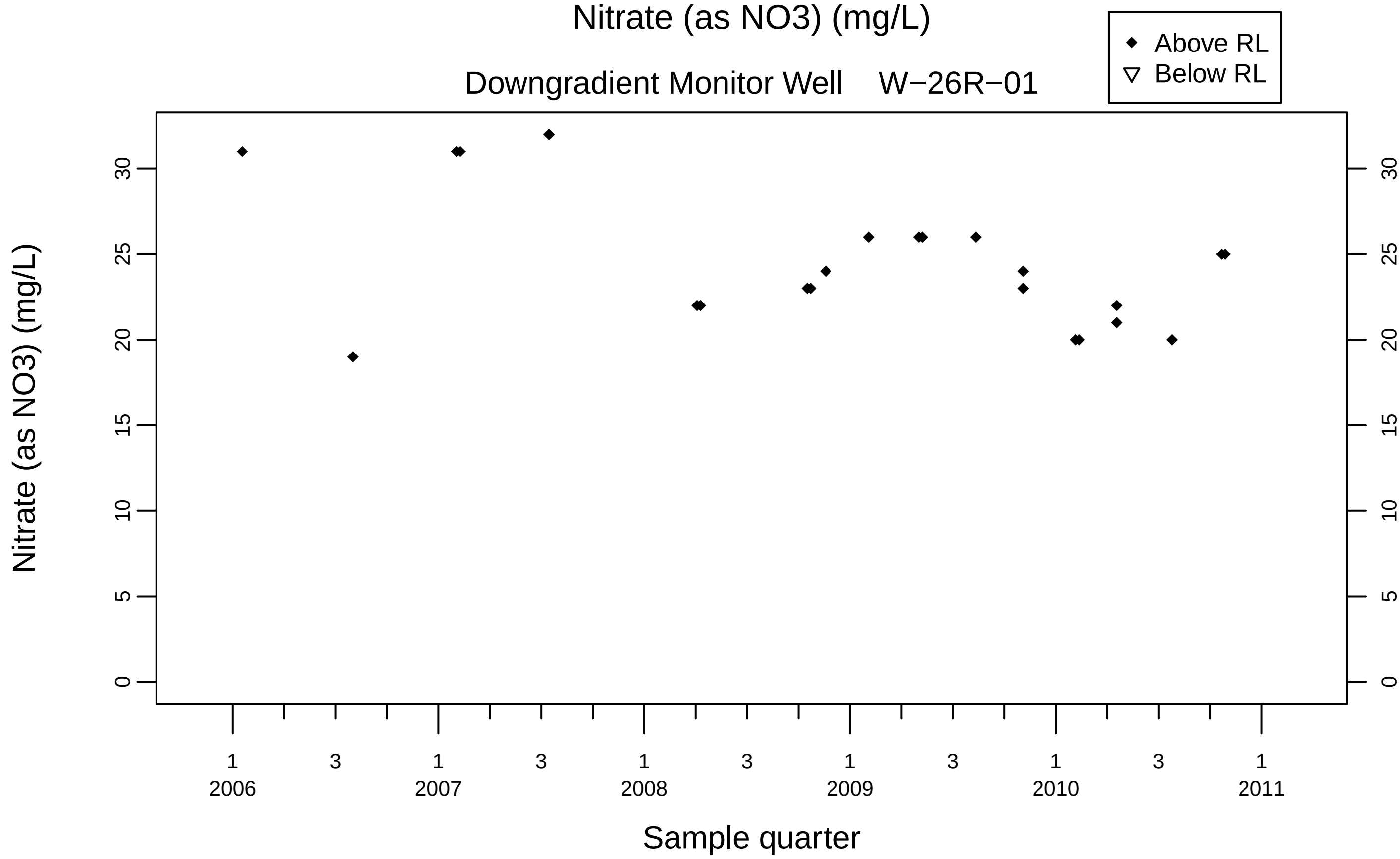


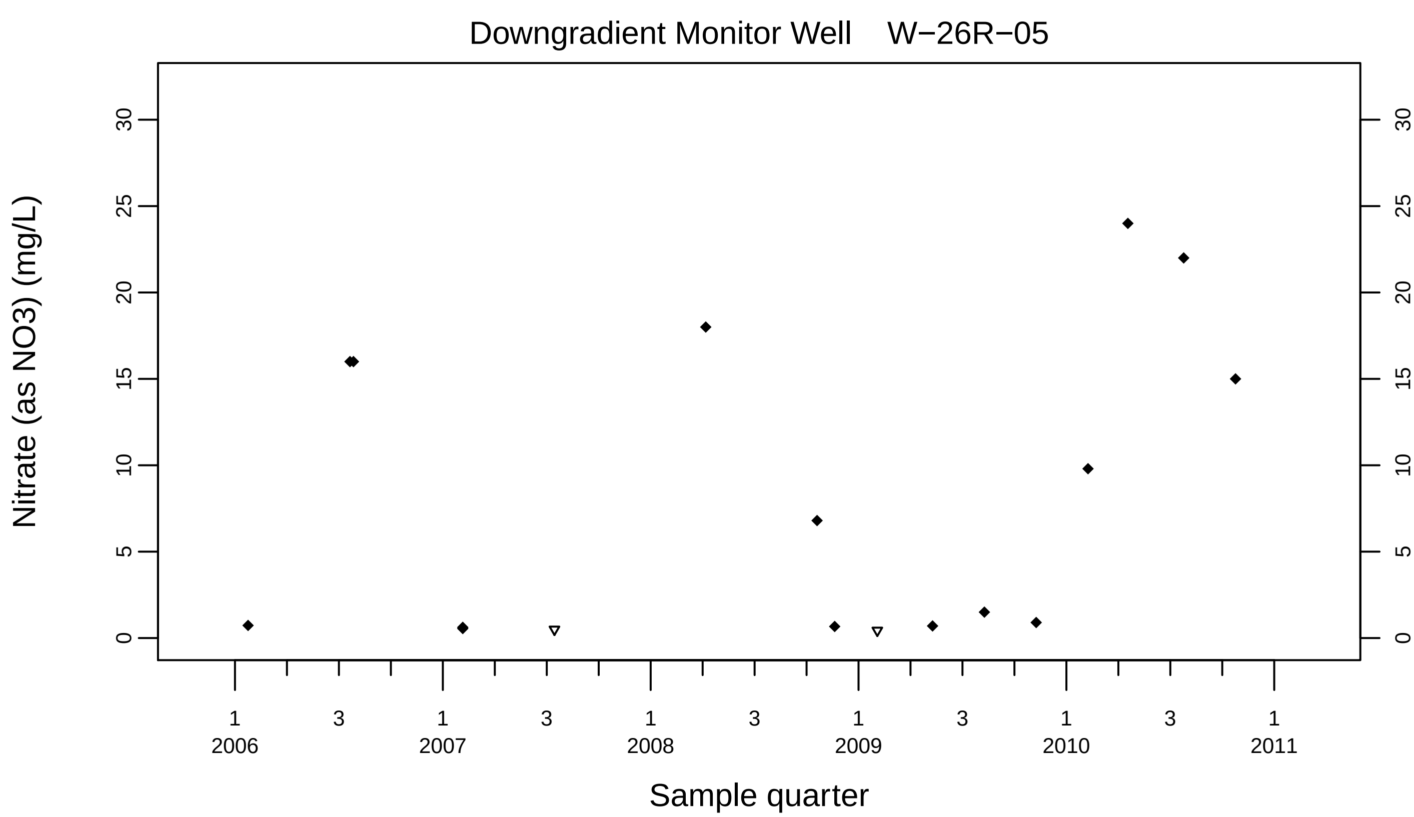
Sewage Ponds Ground Water
Nitrate (as NO3) (mg/L)

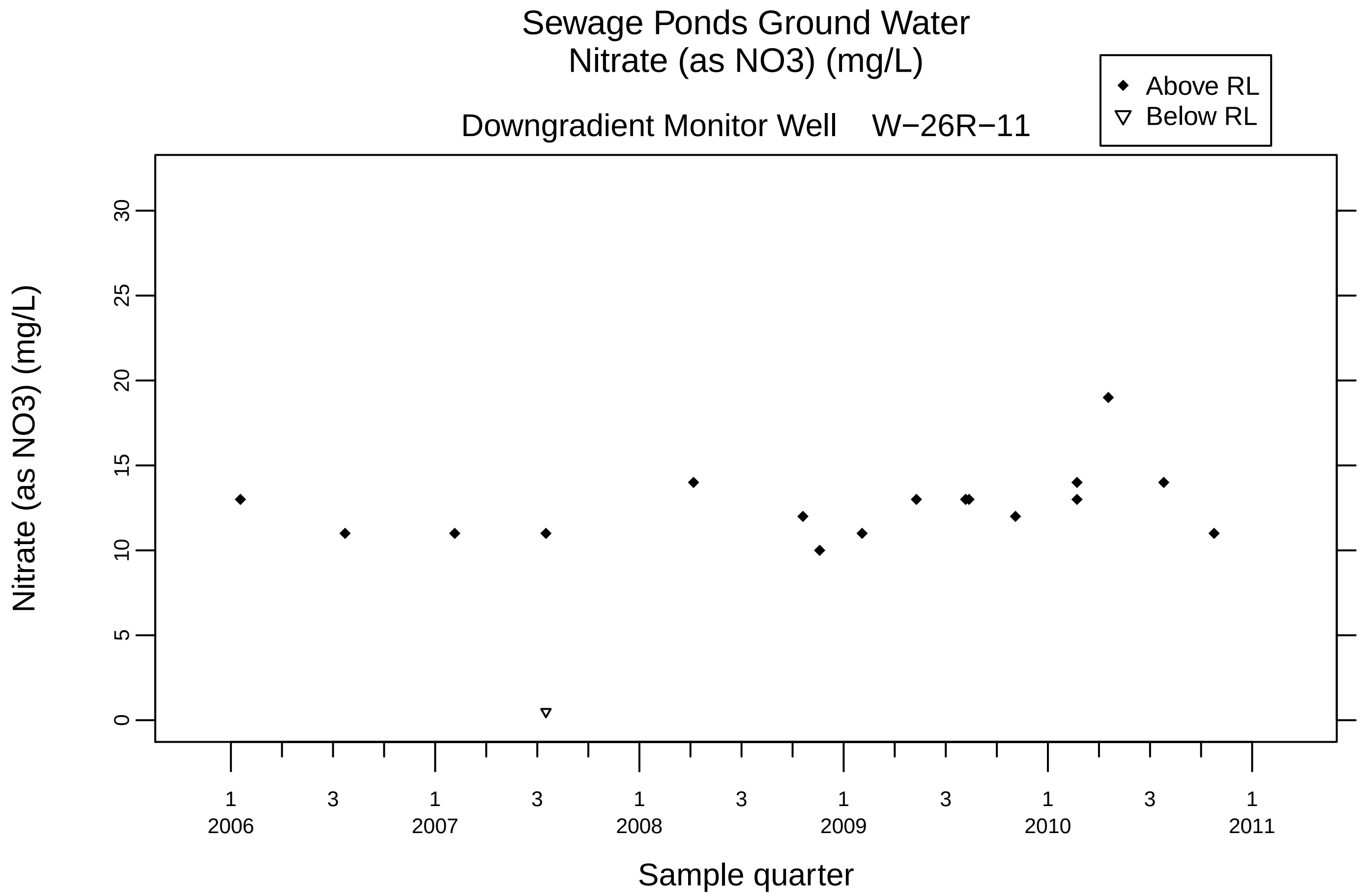




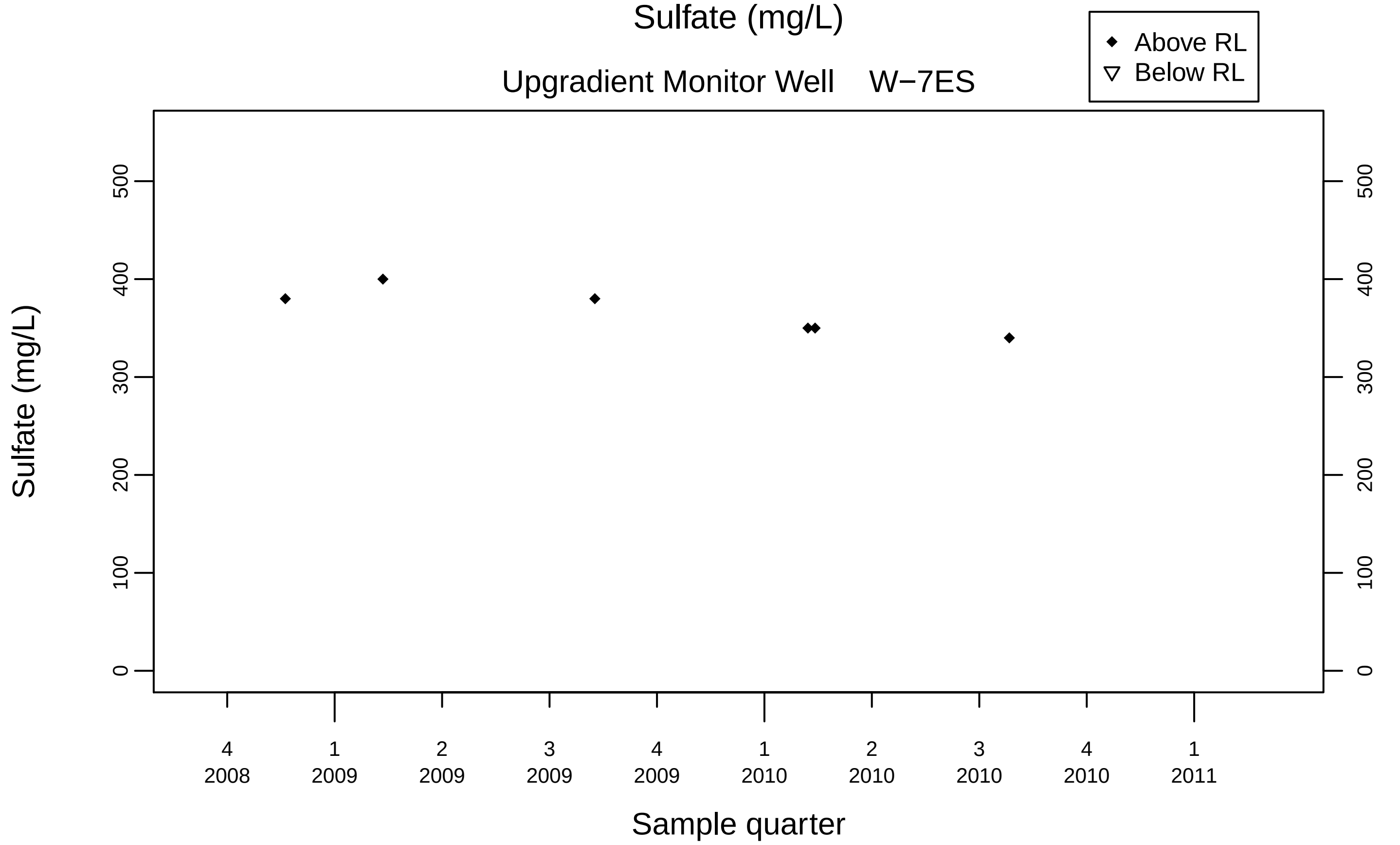
Sewage Ponds Ground Water
Nitrate (as NO3) (mg/L)

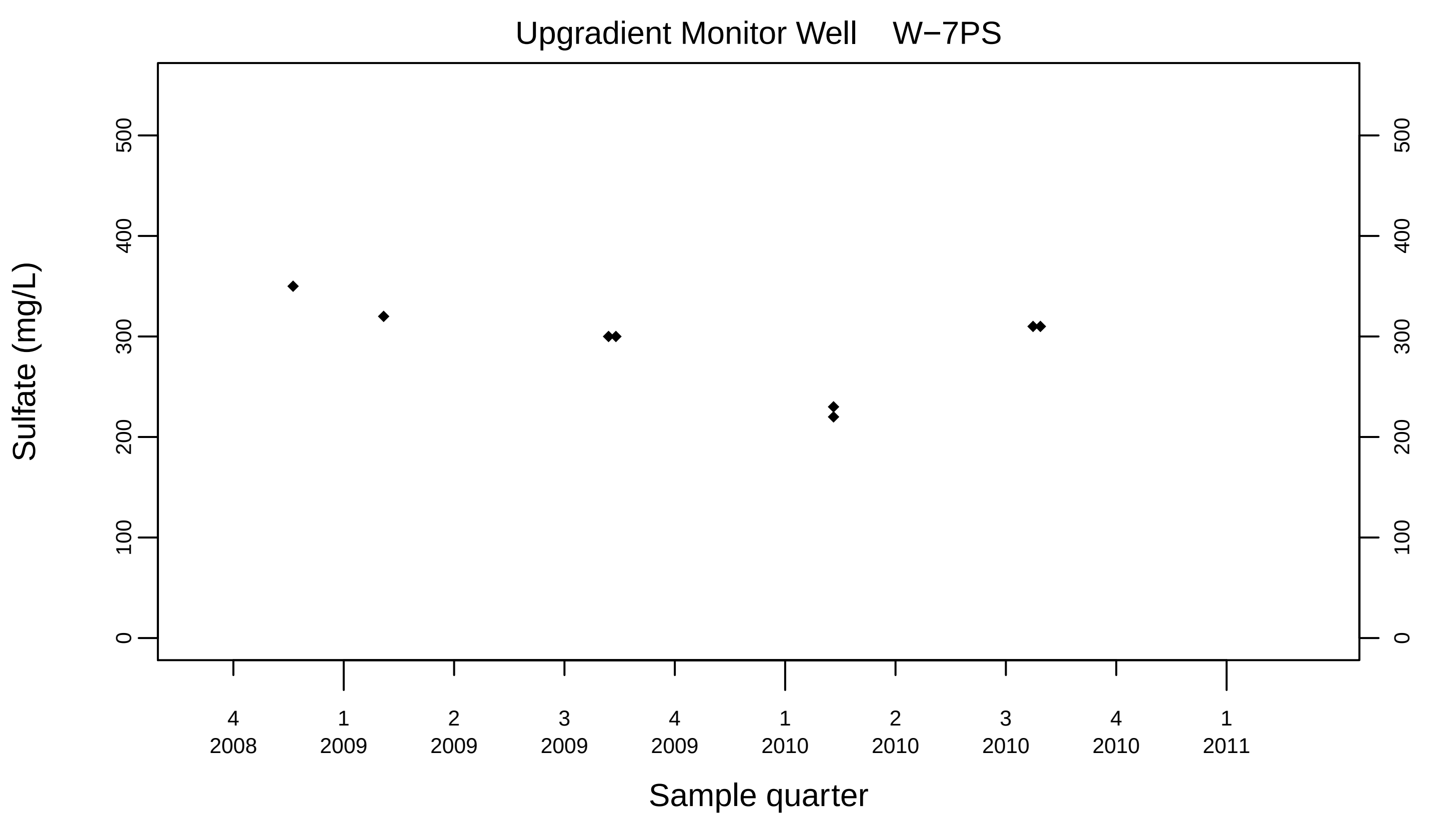




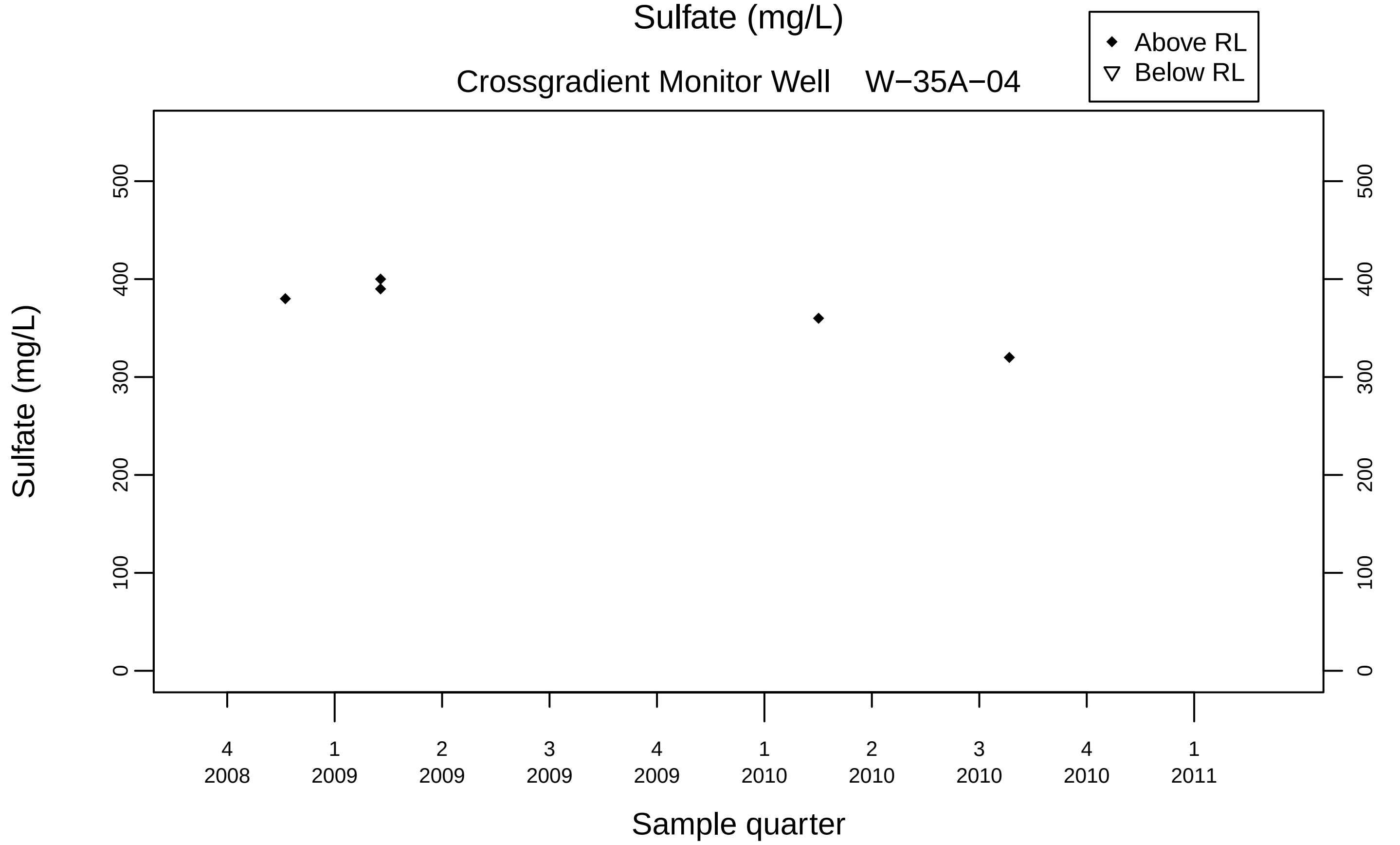

Sewage Ponds Ground Water
Nitrate (as NO3) (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Nitrate (as NO3) (mg/L)
0
5
10
15
20
25
30
1
3
2006
2007
2008
2009
2010
2011
Sample quarter

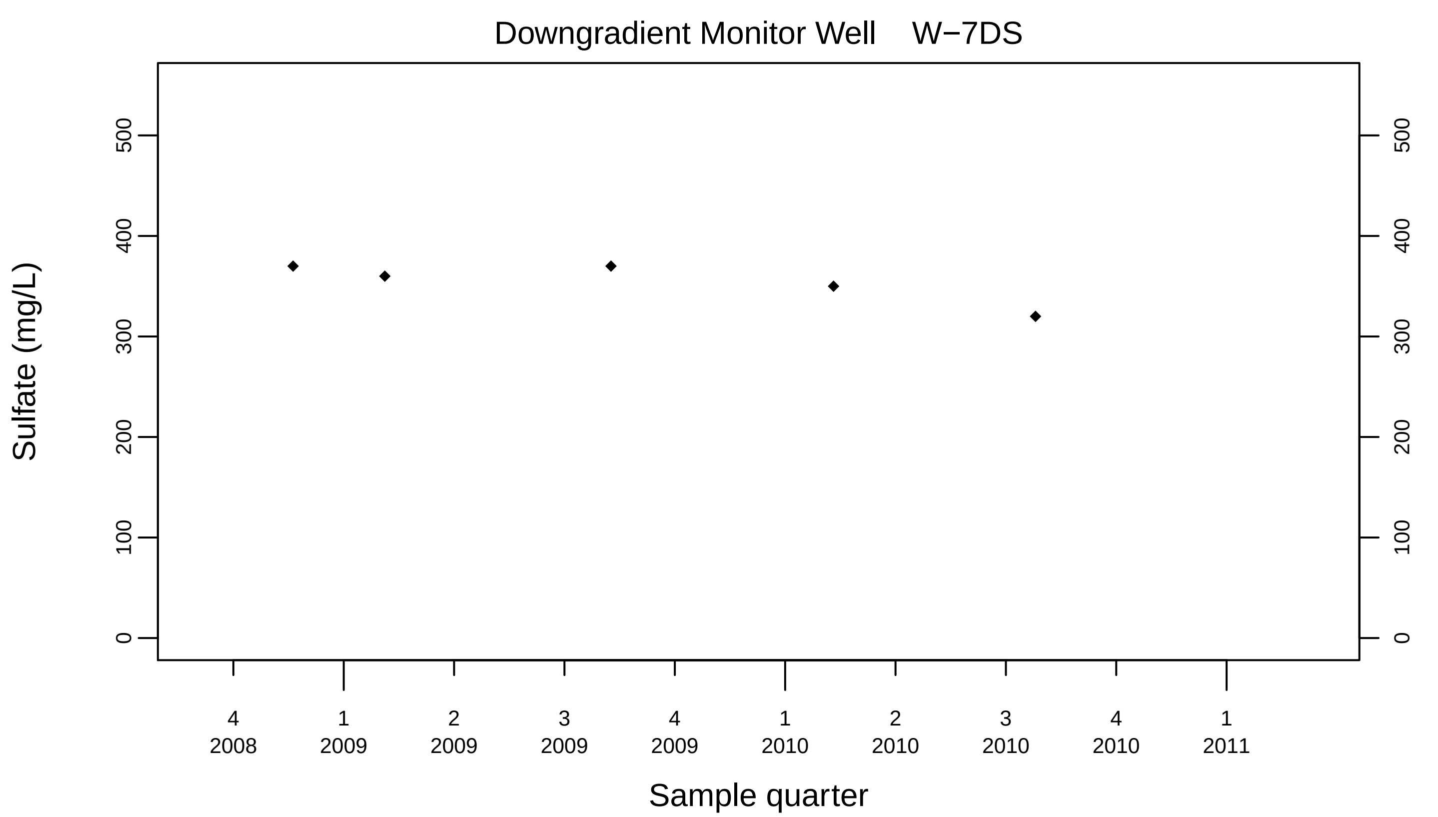
Sewage Ponds Ground Water
Sulfate (mg/L)



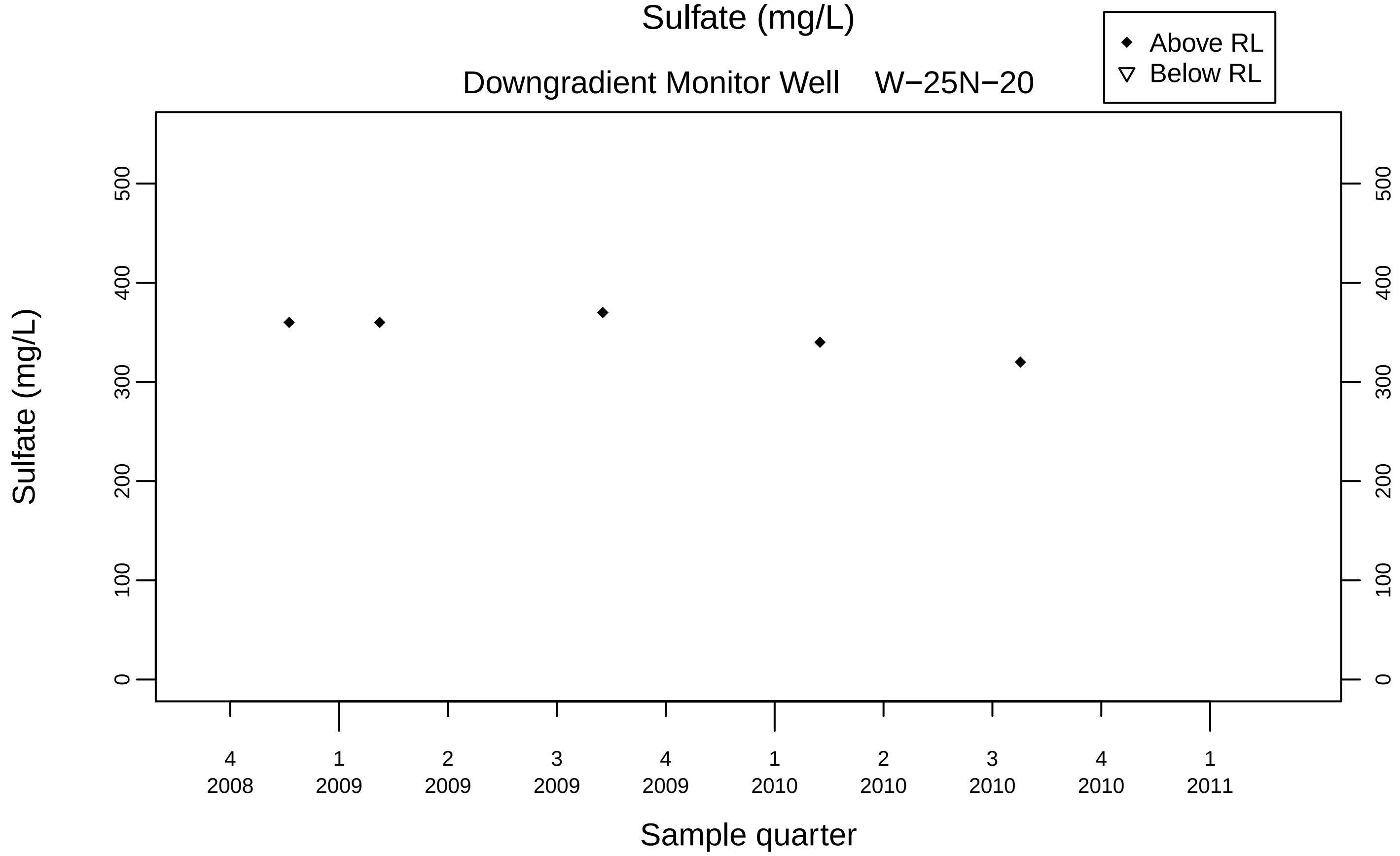


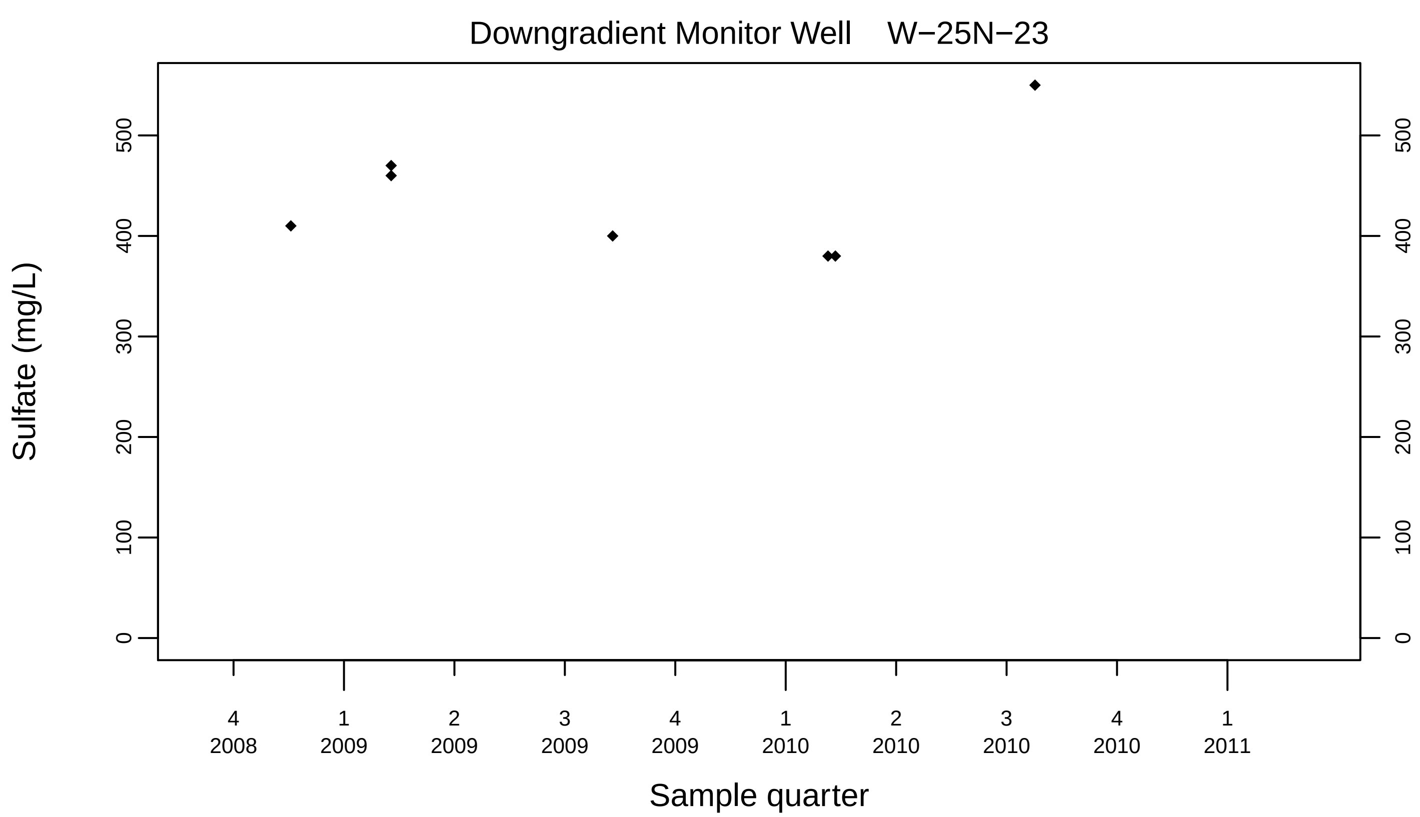
Sewage Ponds Ground Water
Sulfate (mg/L)



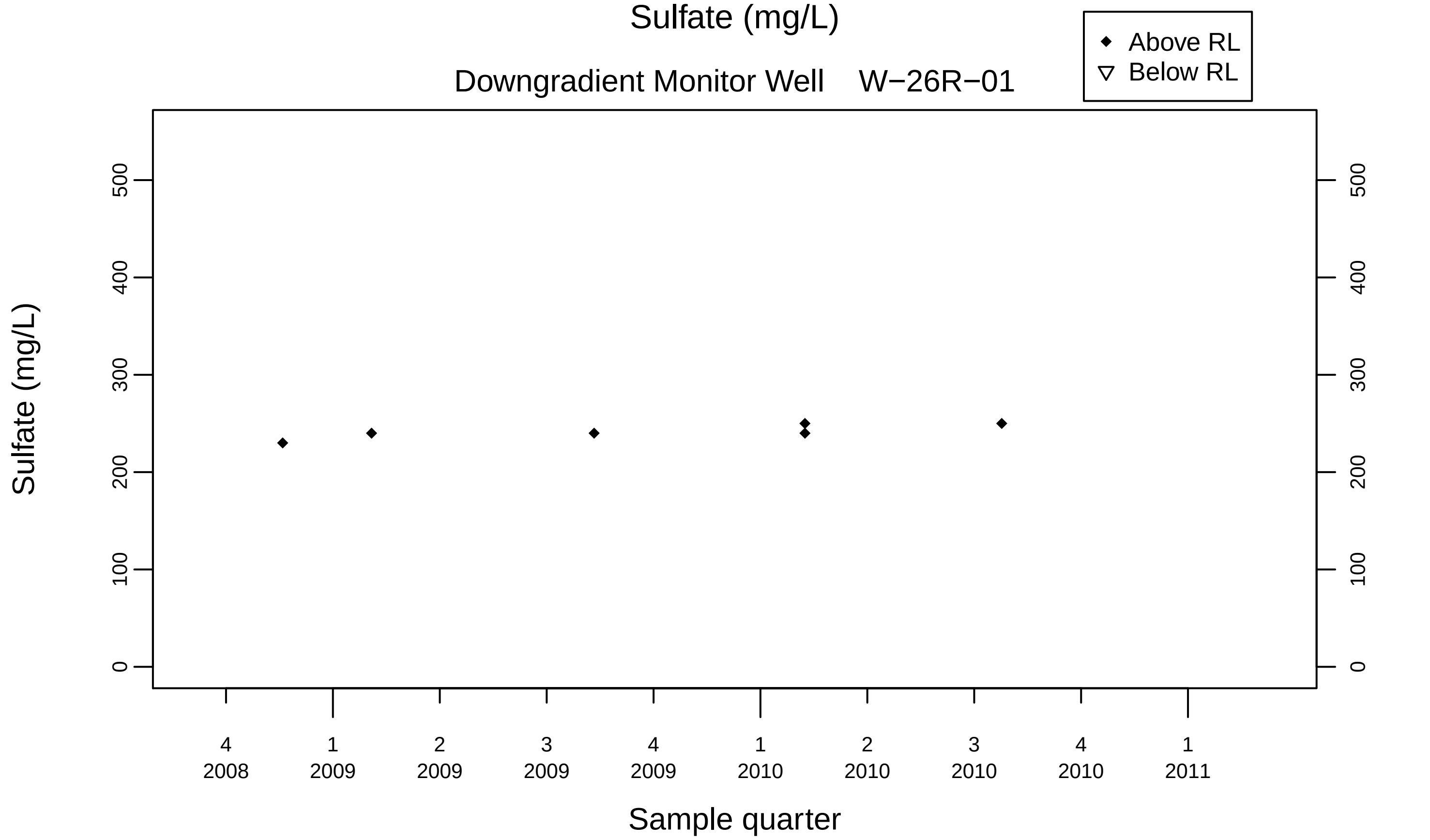


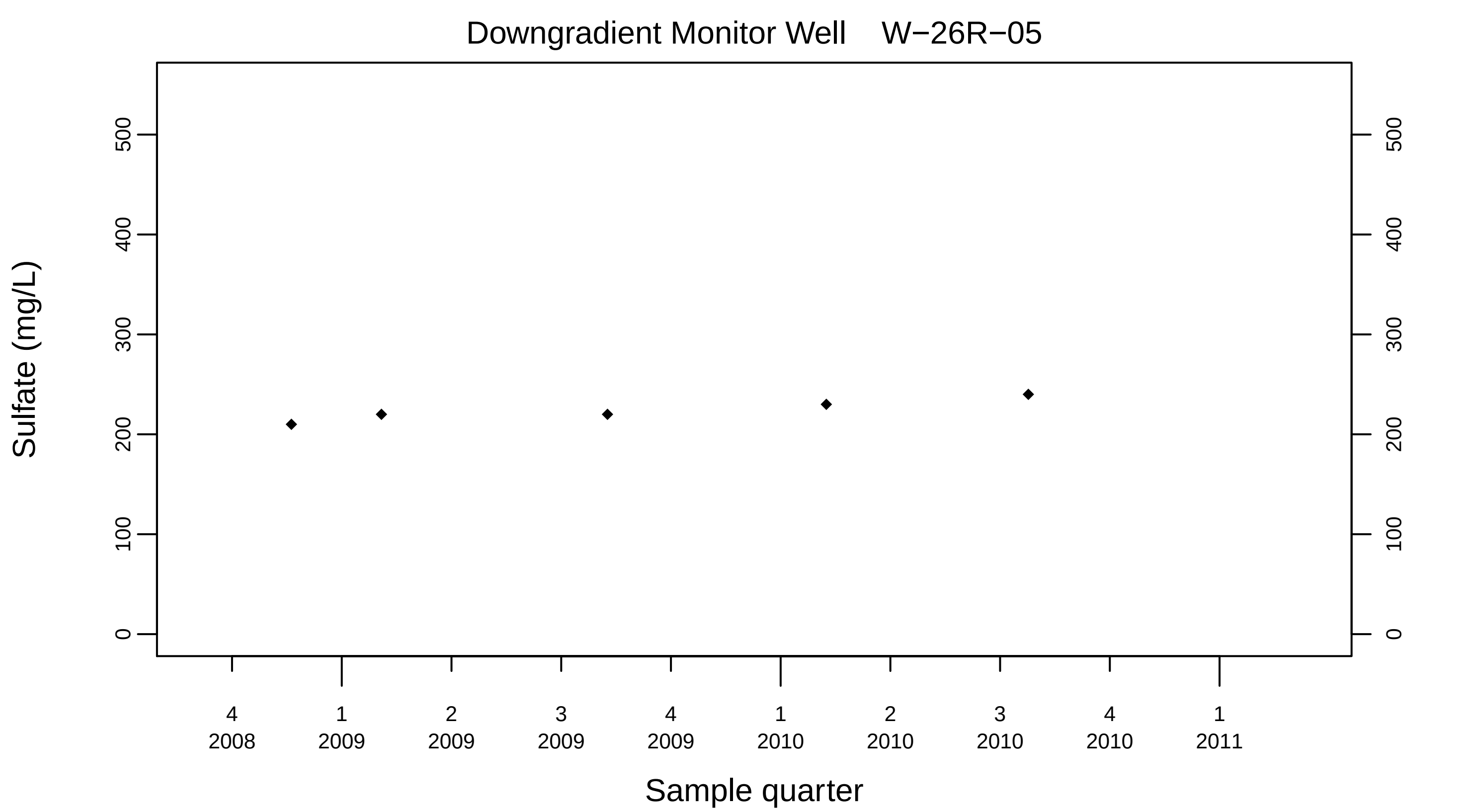
Sewage Ponds Ground Water
Sulfate (mg/L)

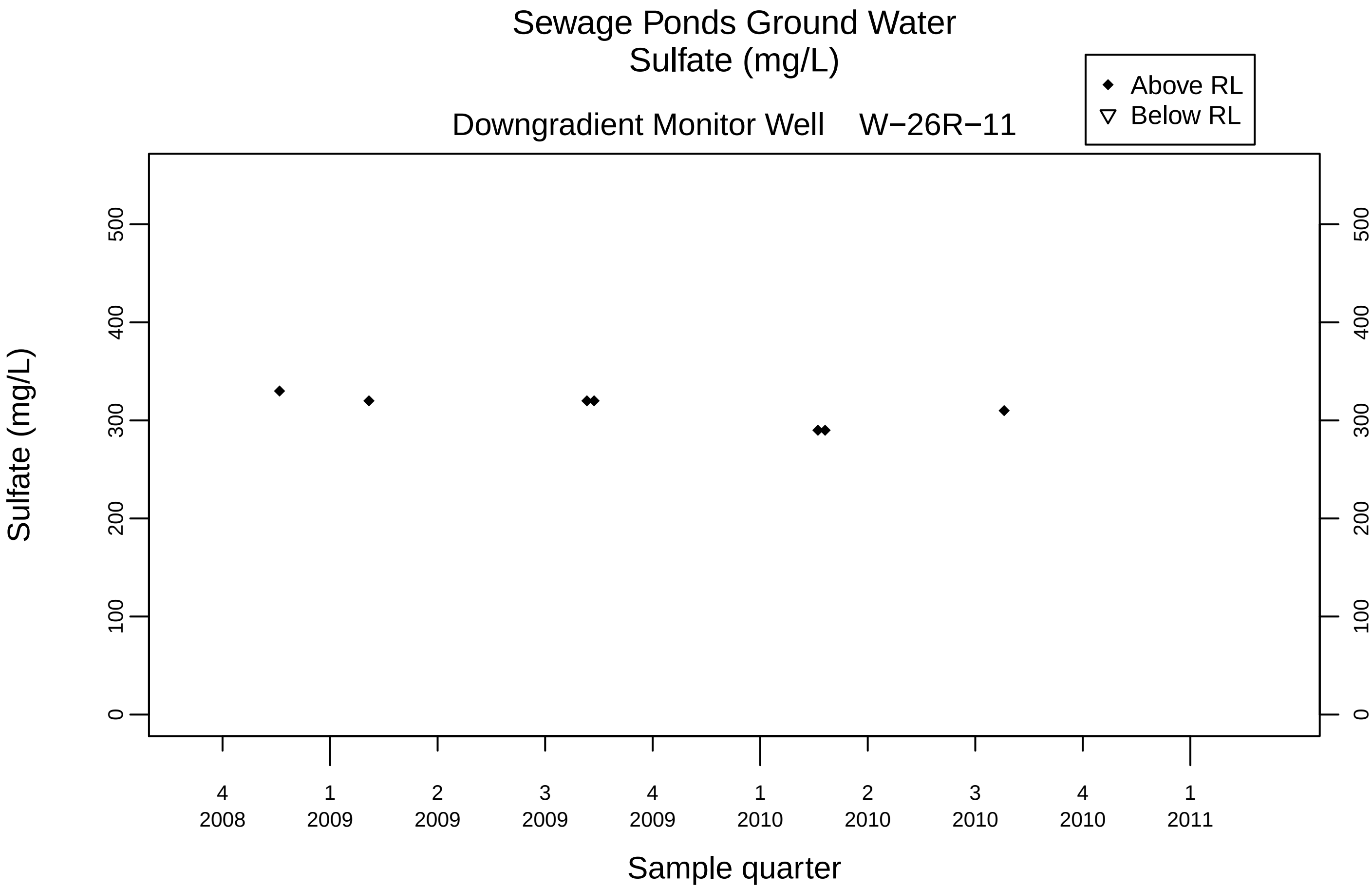


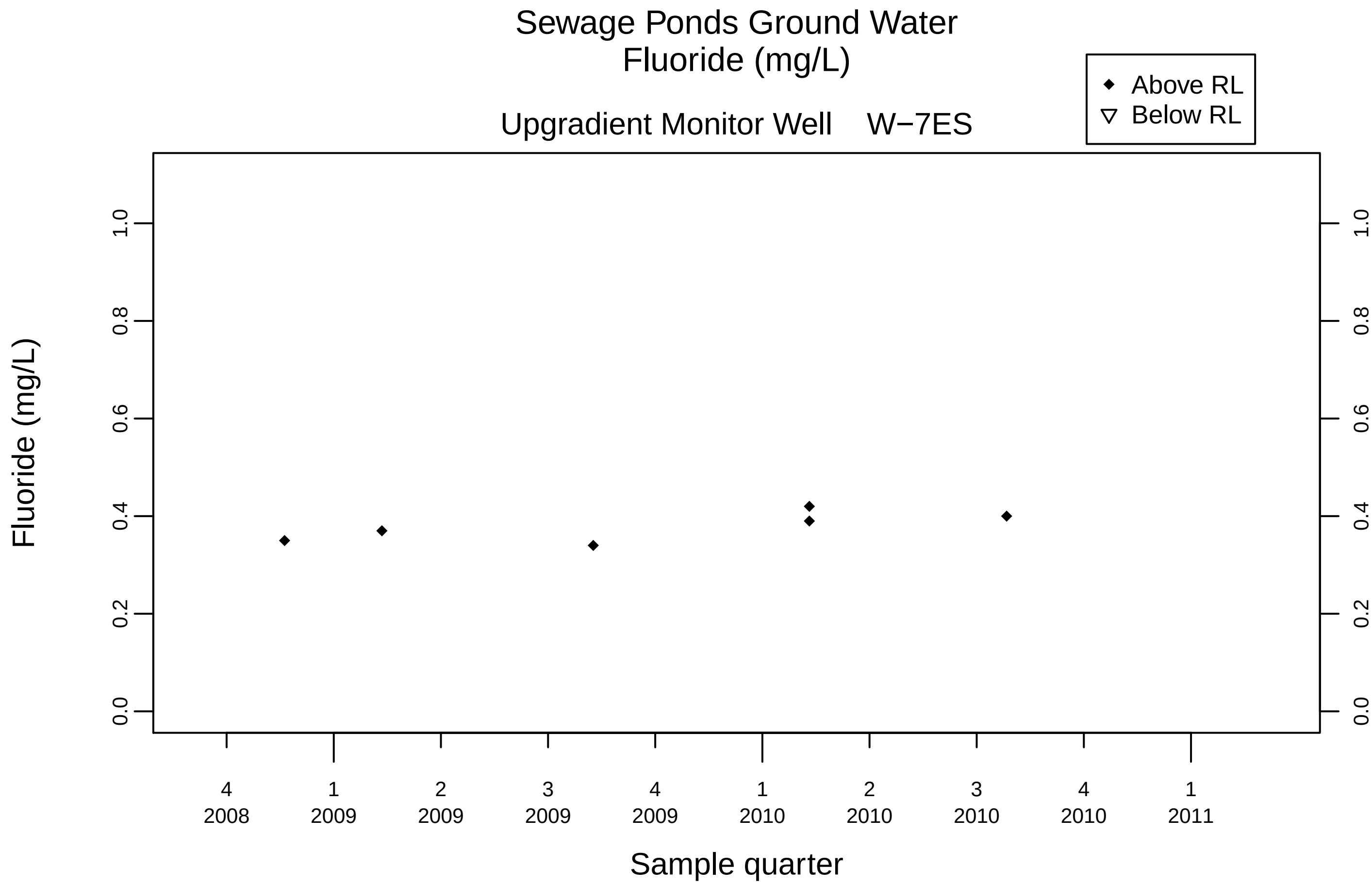


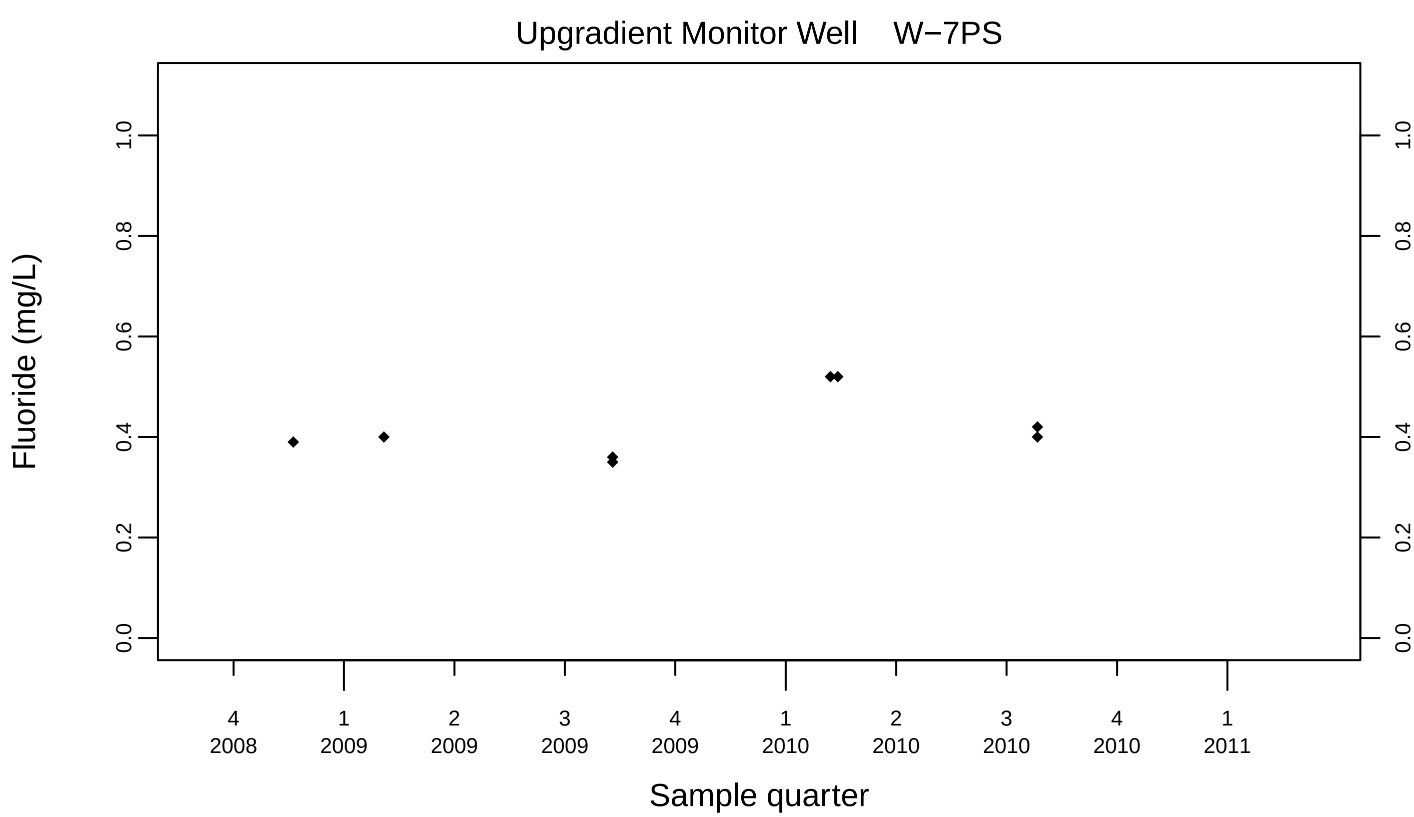
Sewage Ponds Ground Water
Sulfate (mg/L)

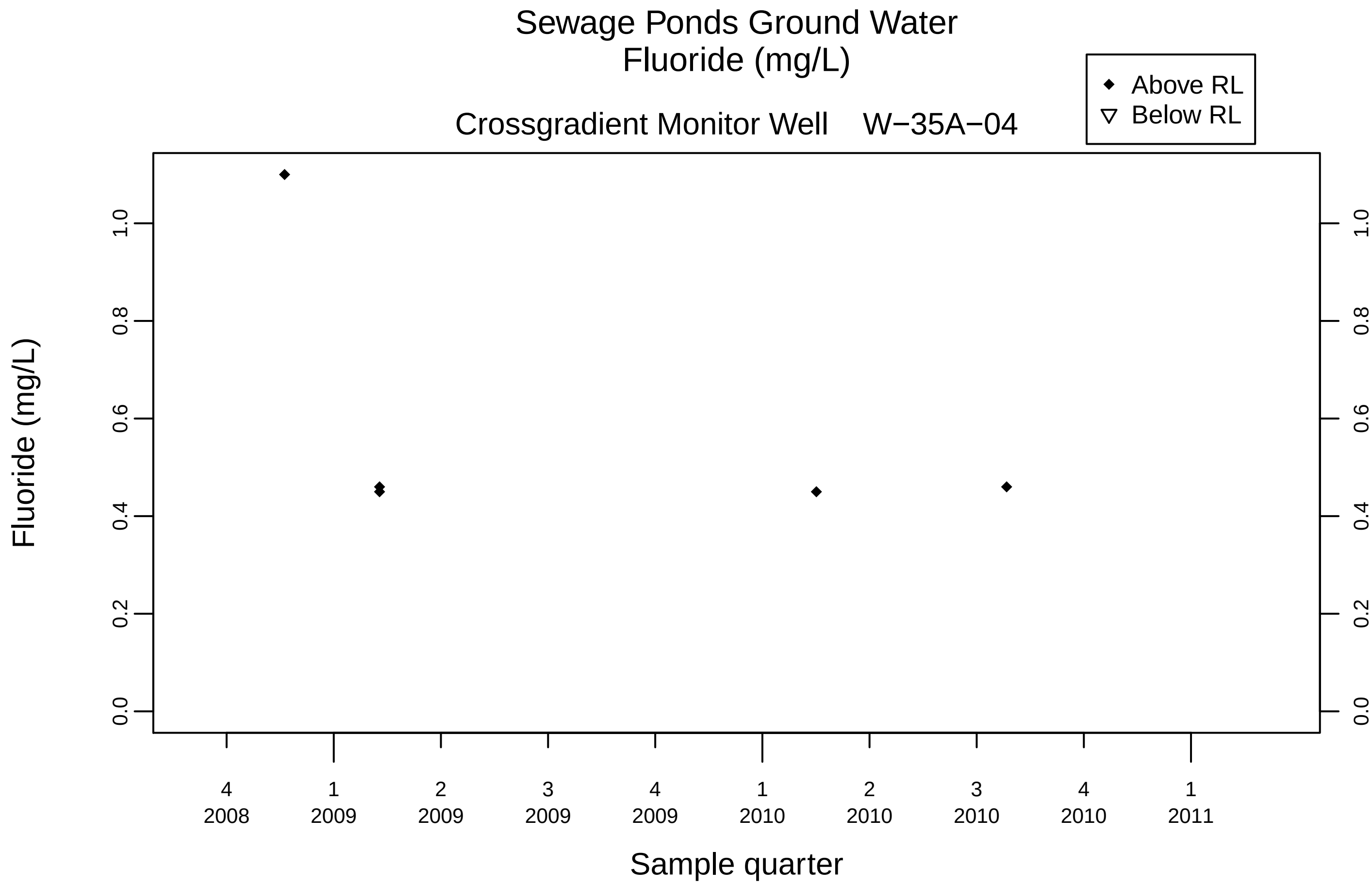


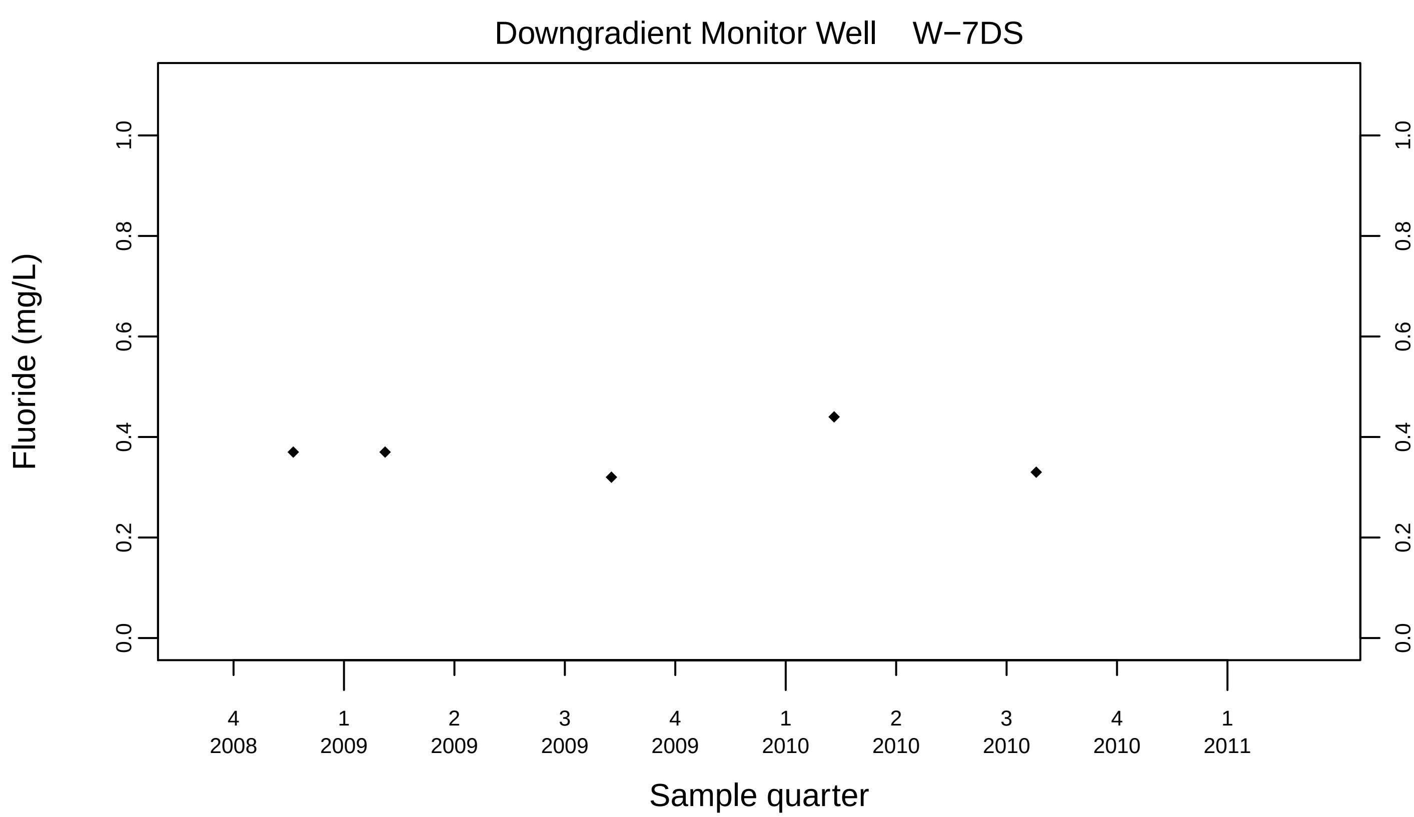



Sewage Ponds Ground Water
Sulfate (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Sulfate (mg/L)
0
100
200
300
400
500
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

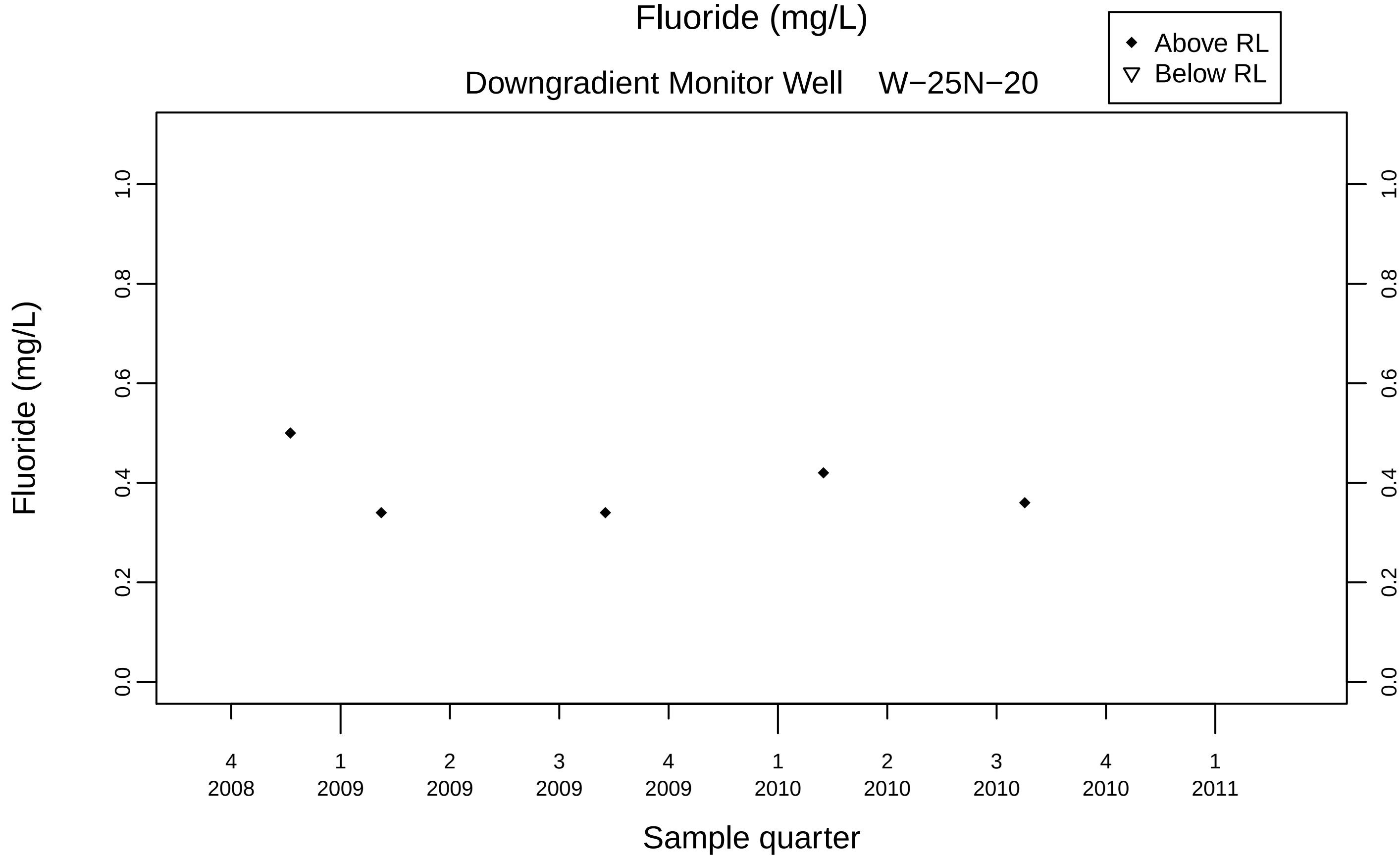

Sewage Ponds Ground Water
Fluoride (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

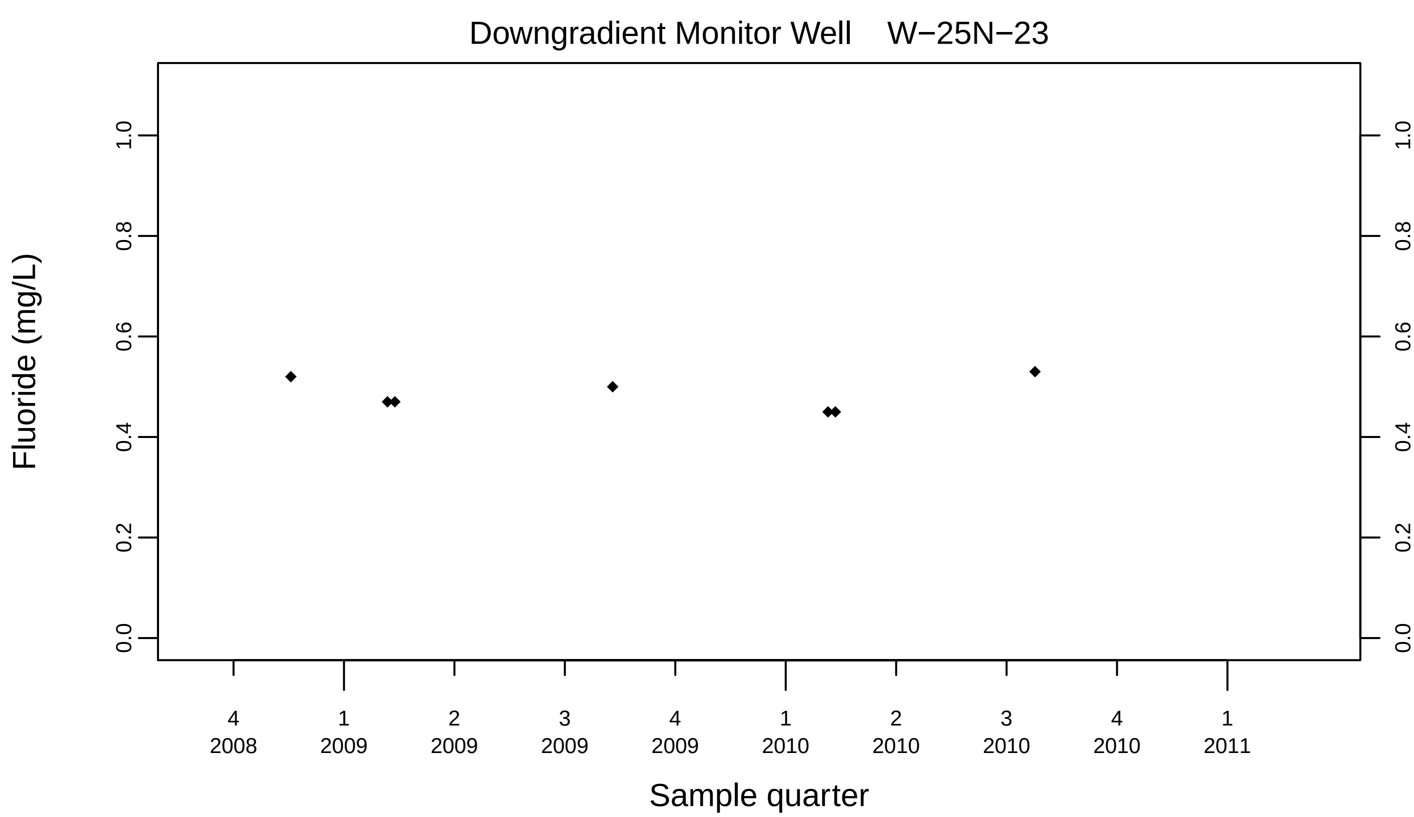

Upgradient Monitor Well W−7PS
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


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
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

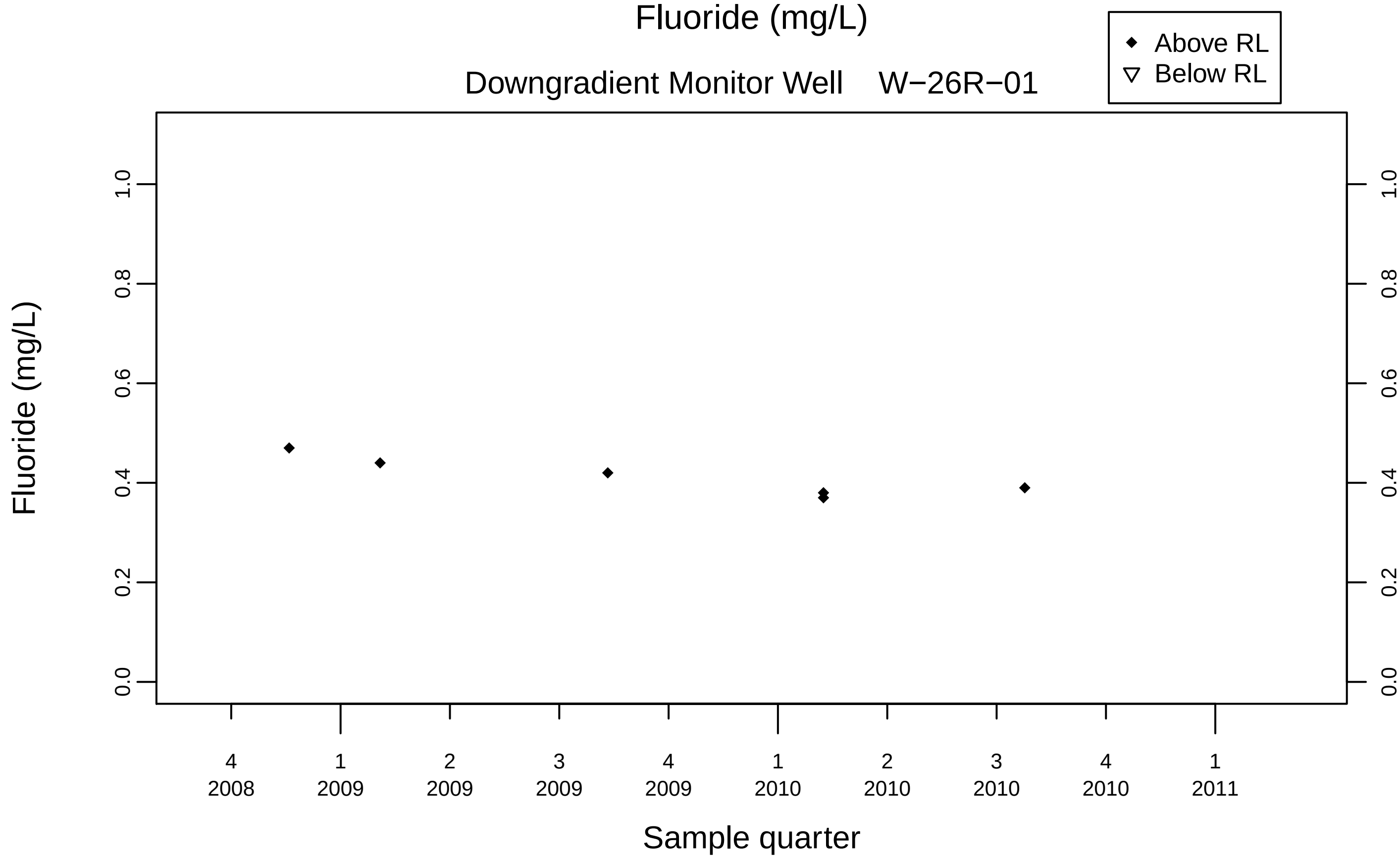

Downgradient Monitor Well W−7DS
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

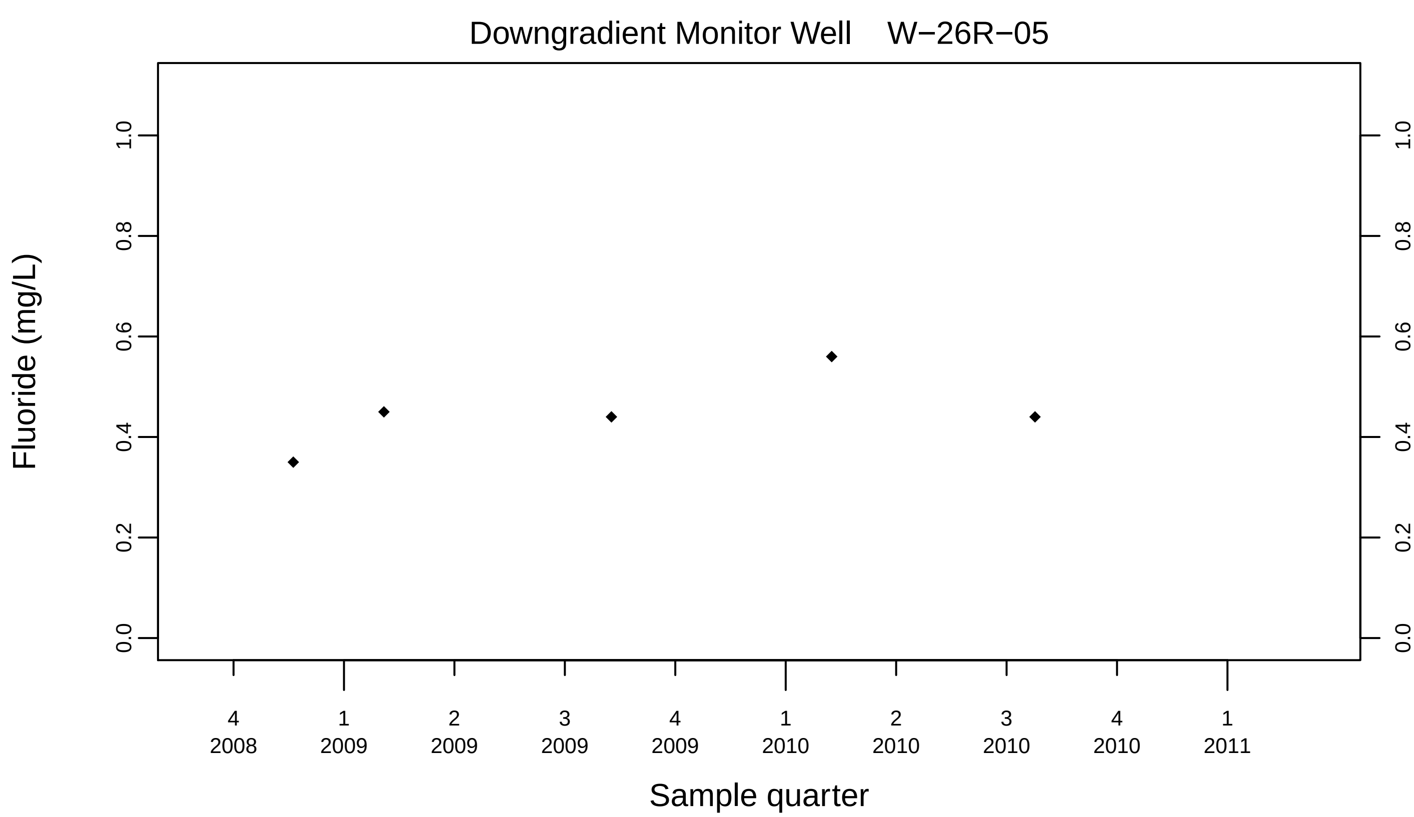
Sewage Ponds Ground Water
Fluoride (mg/L)

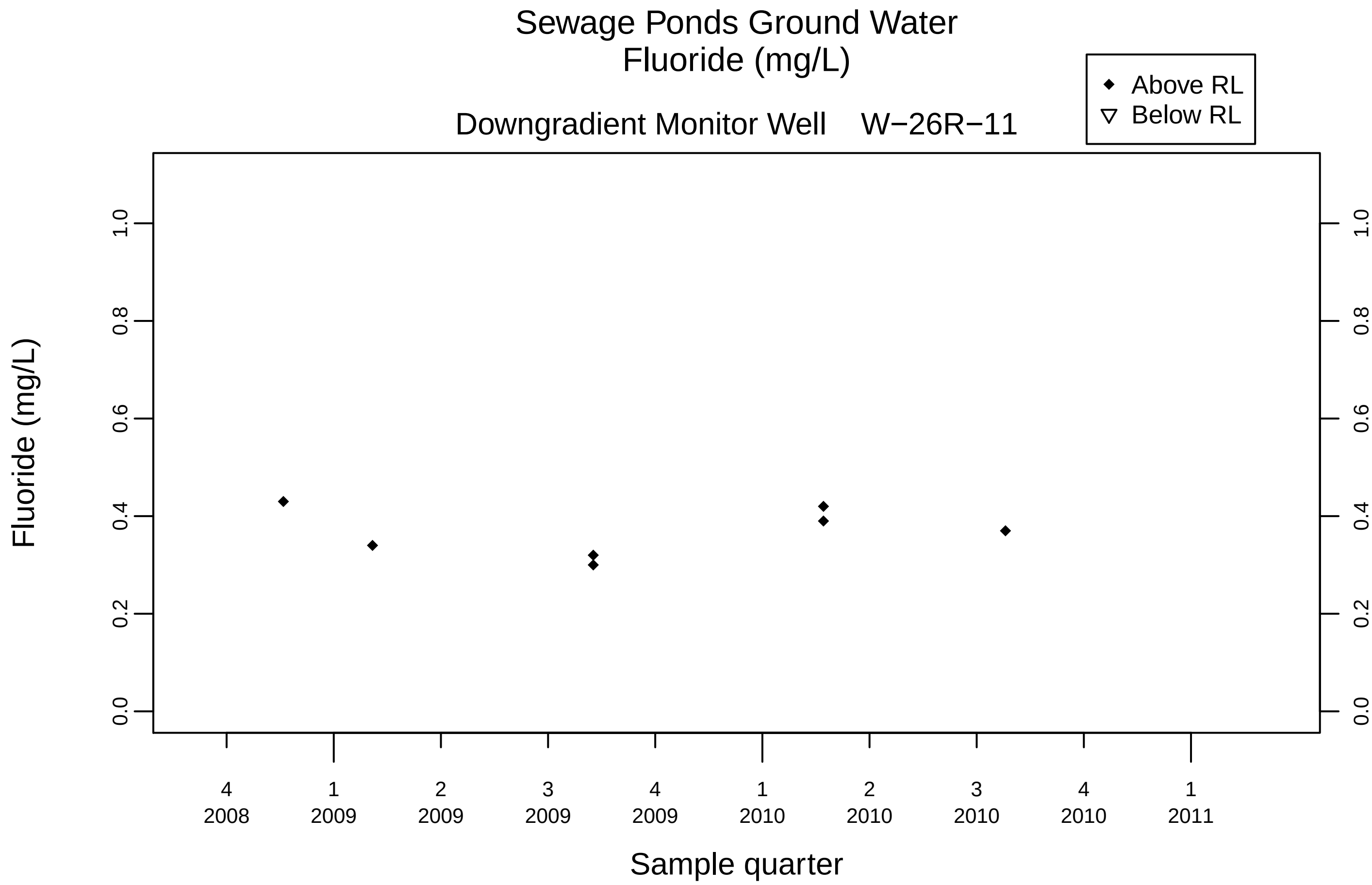


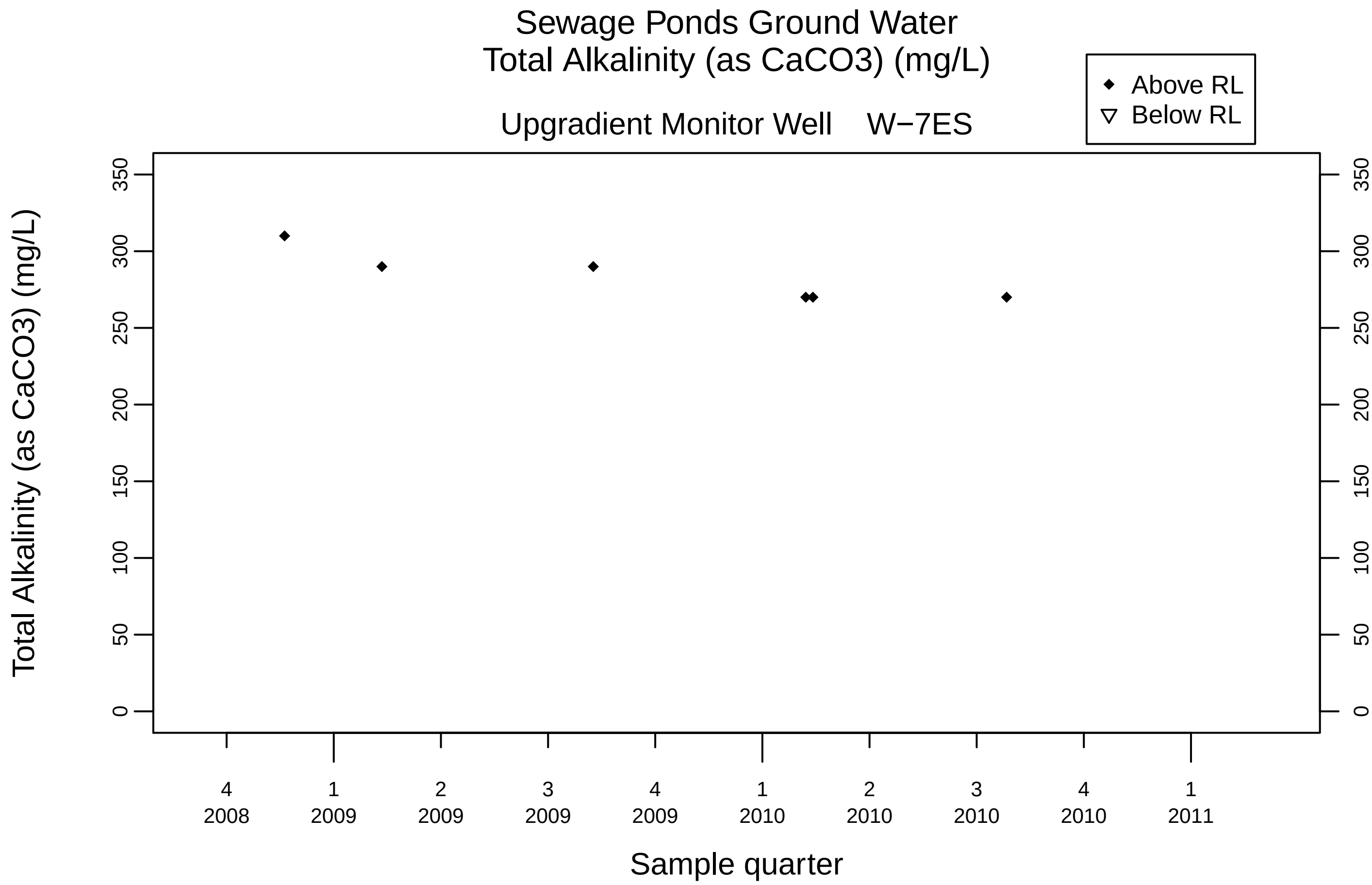


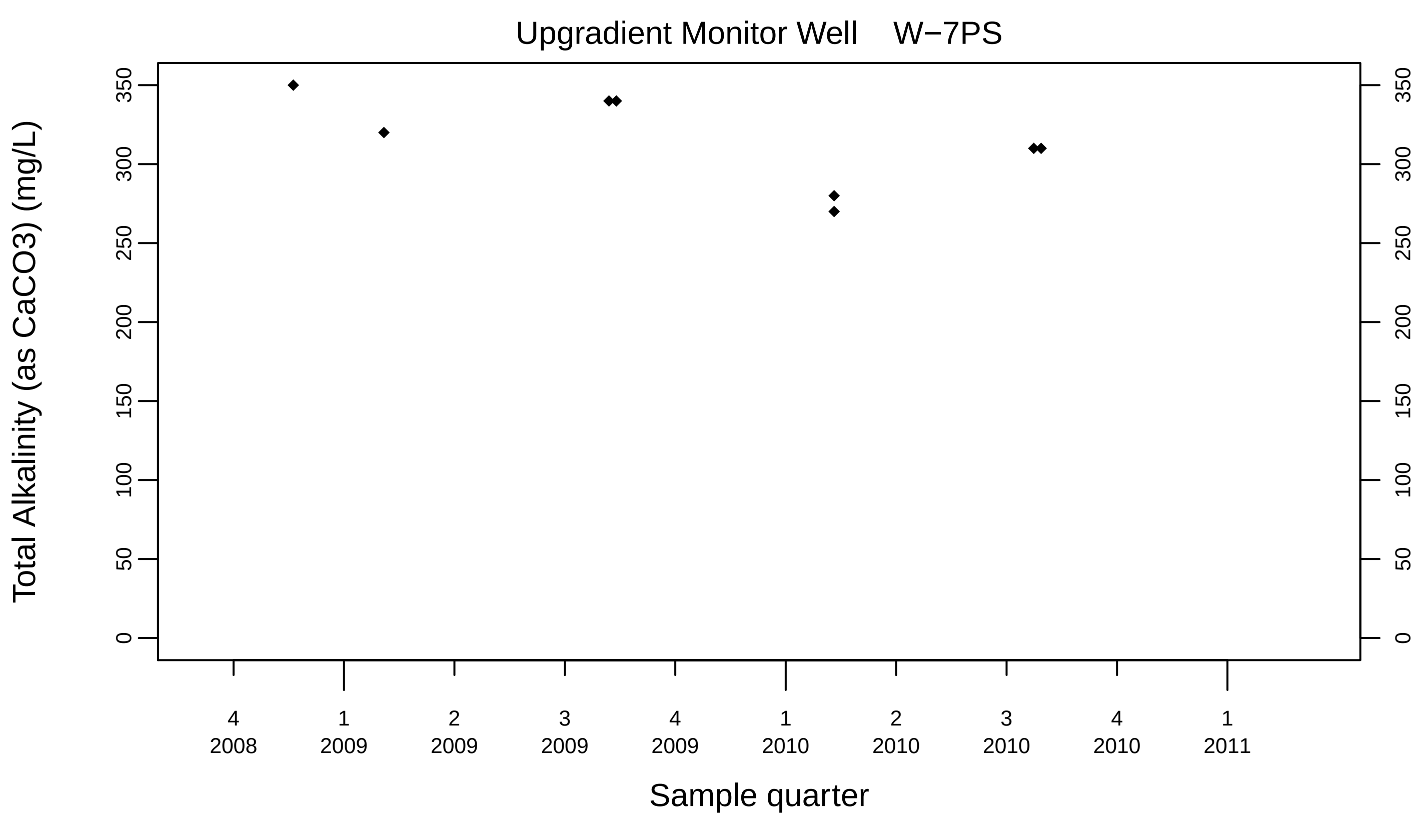
Sewage Ponds Ground Water
Fluoride (mg/L)

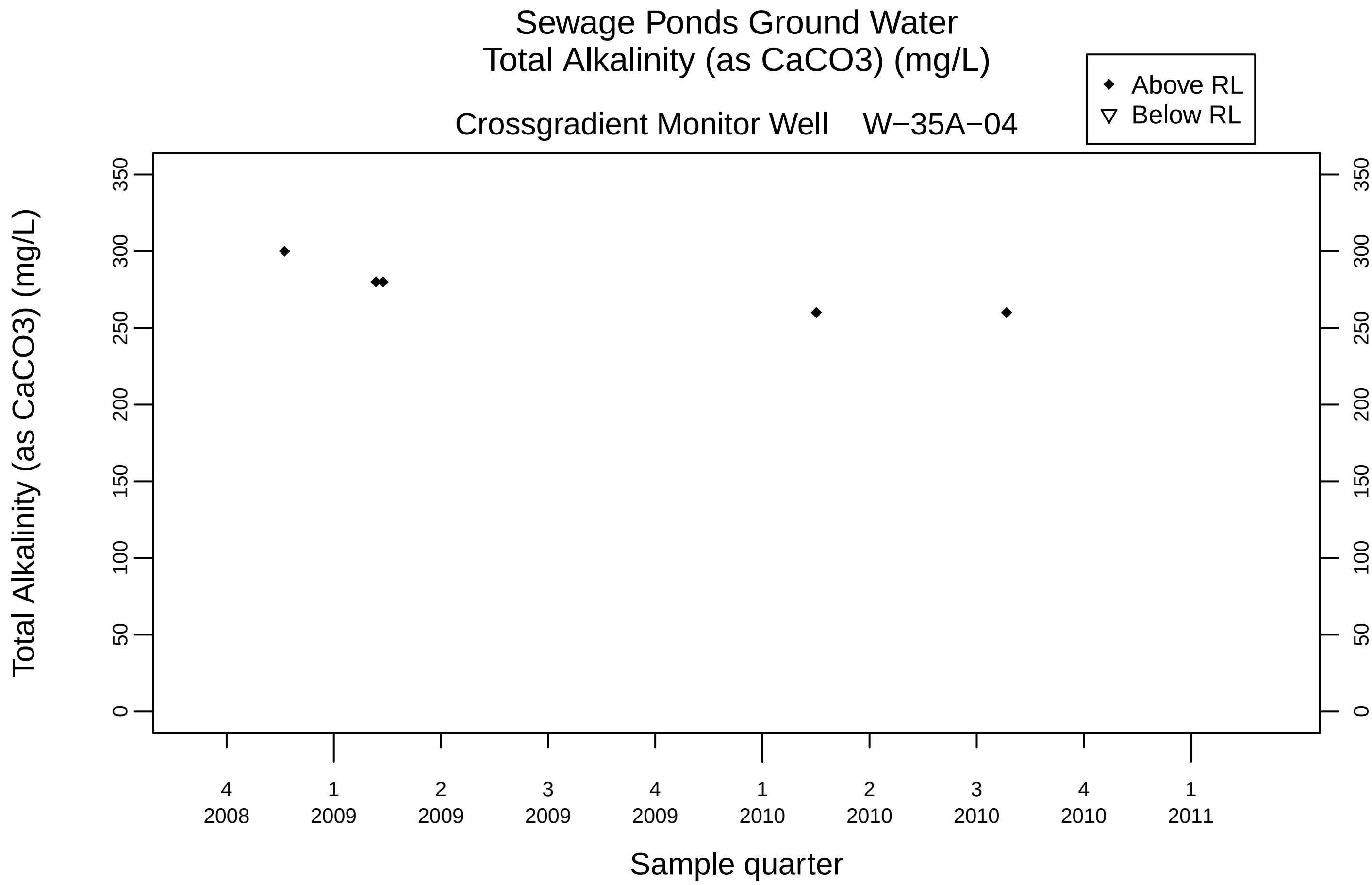


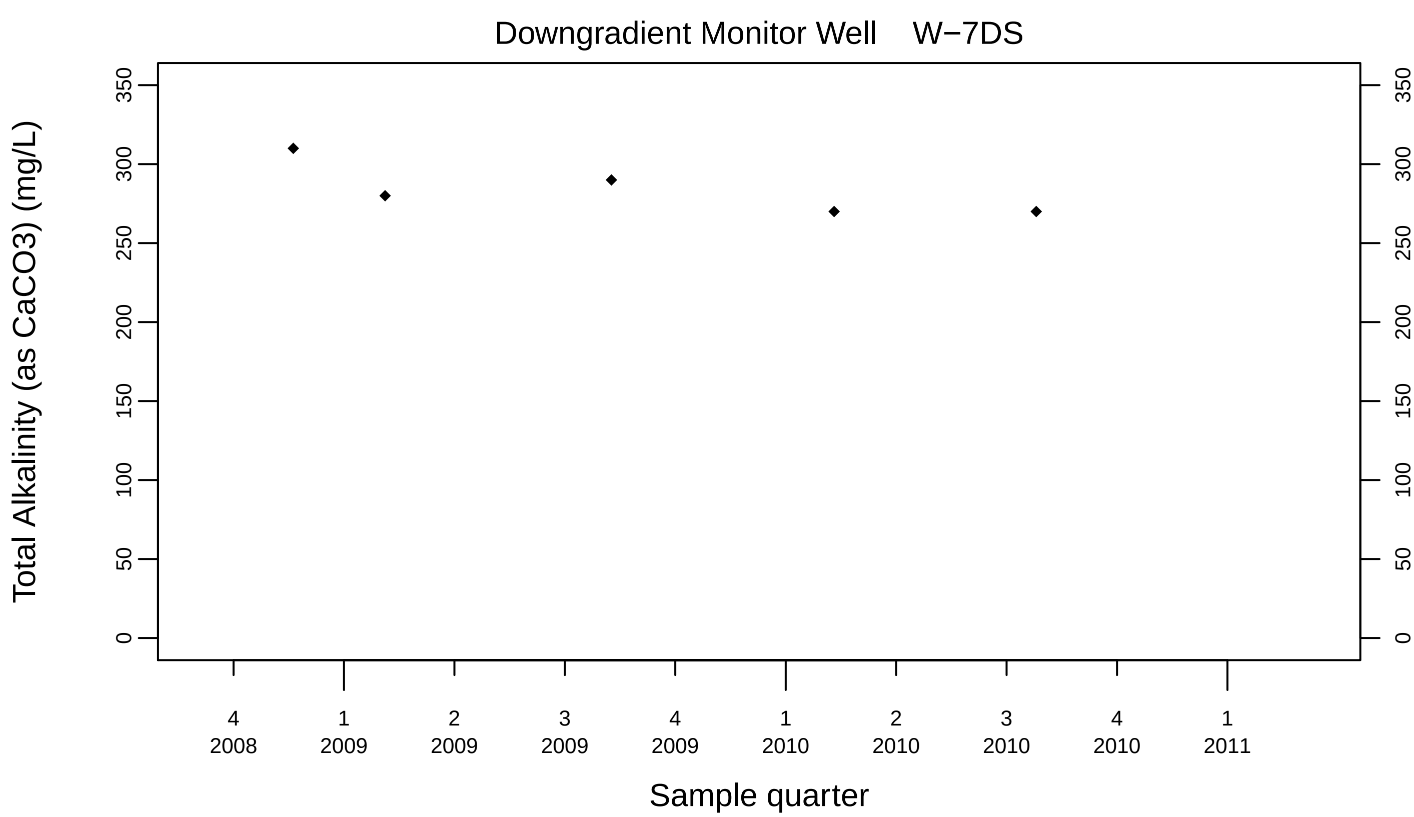



Sewage Ponds Ground Water
Fluoride (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Fluoride (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

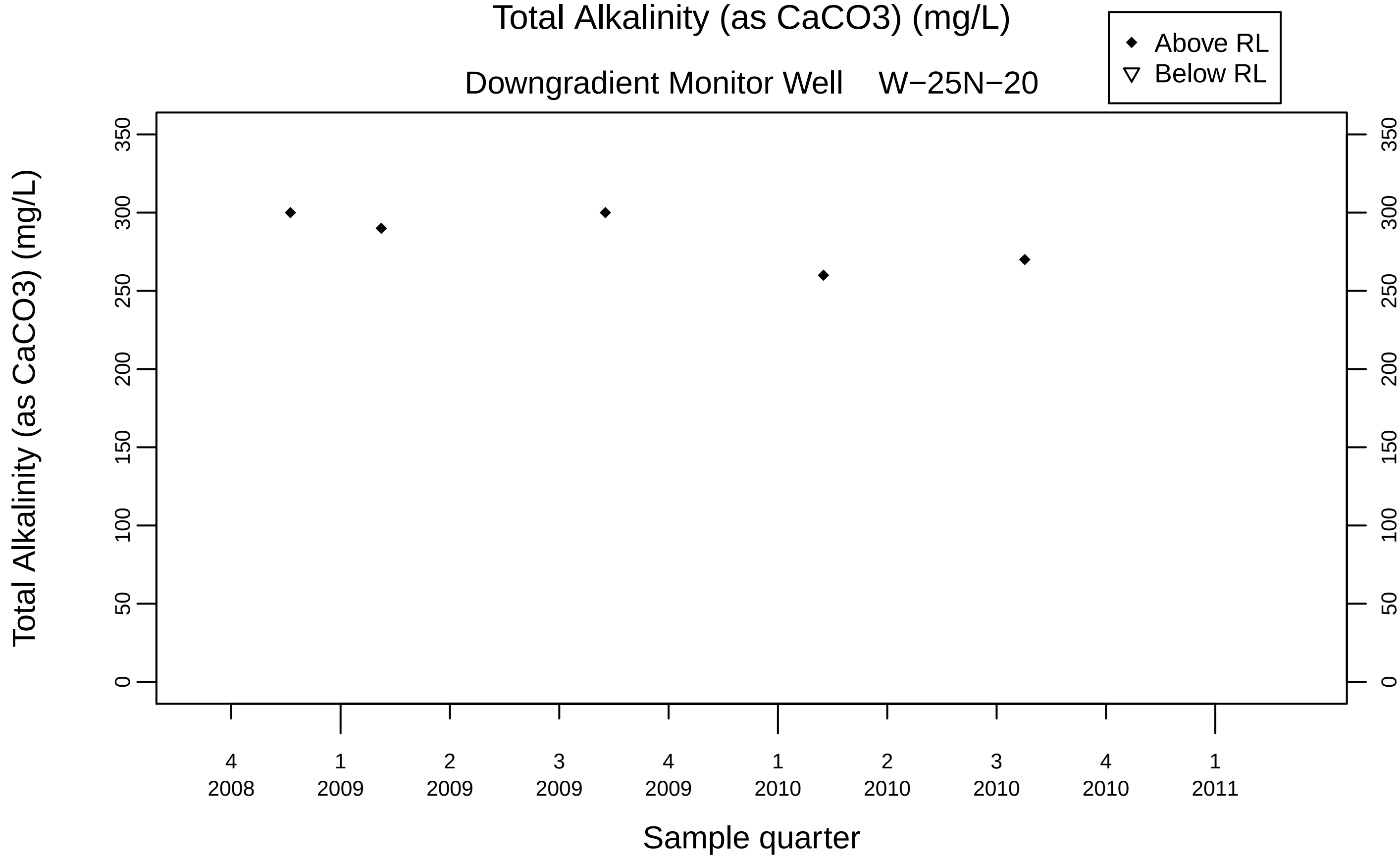

Sewage Ponds Ground Water
Total Alkalinity (as CaCO3) (mg/L)
Above RL
Below RL
Upgradient Monitor Well W−7ES
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

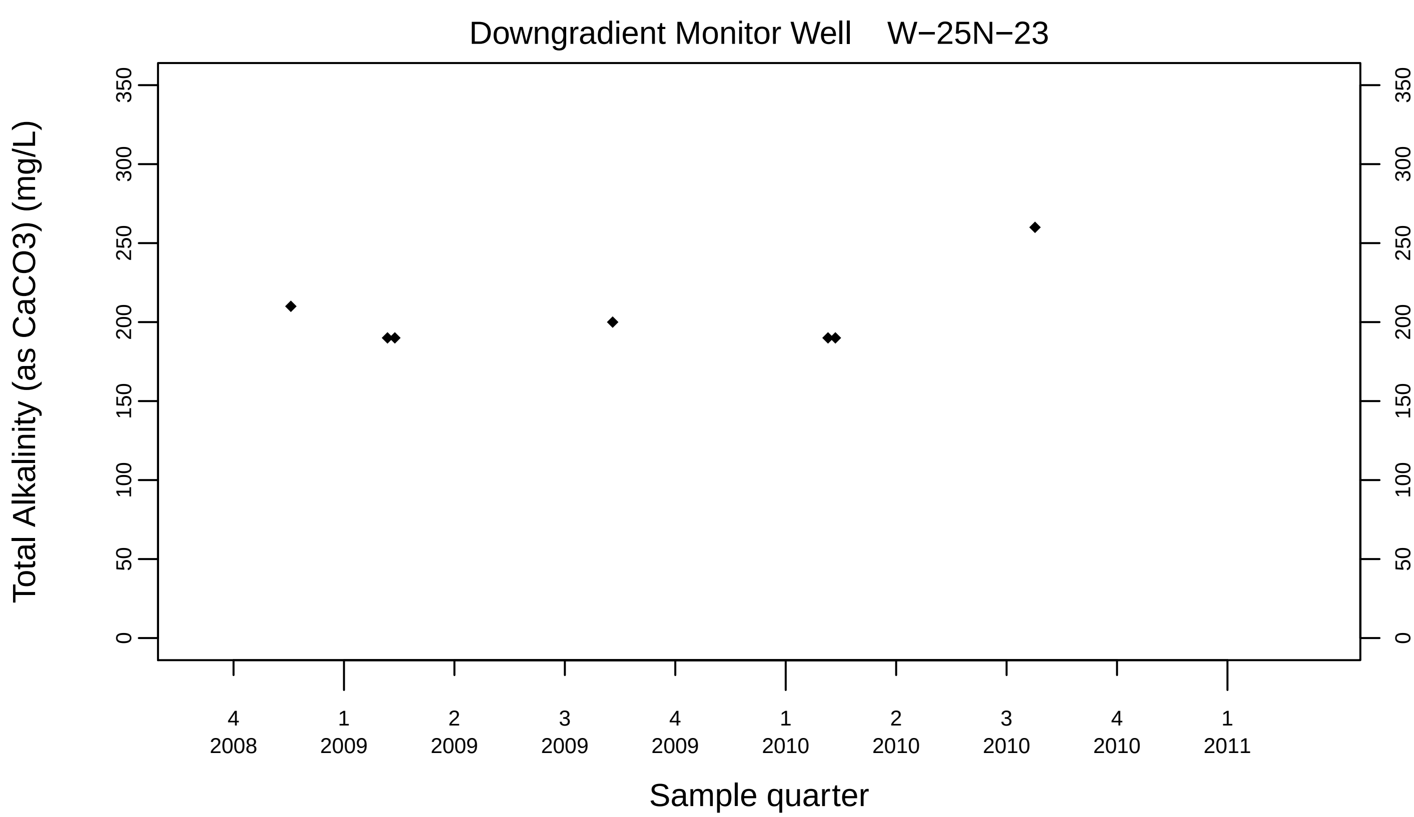

Upgradient Monitor Well W−7PS
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

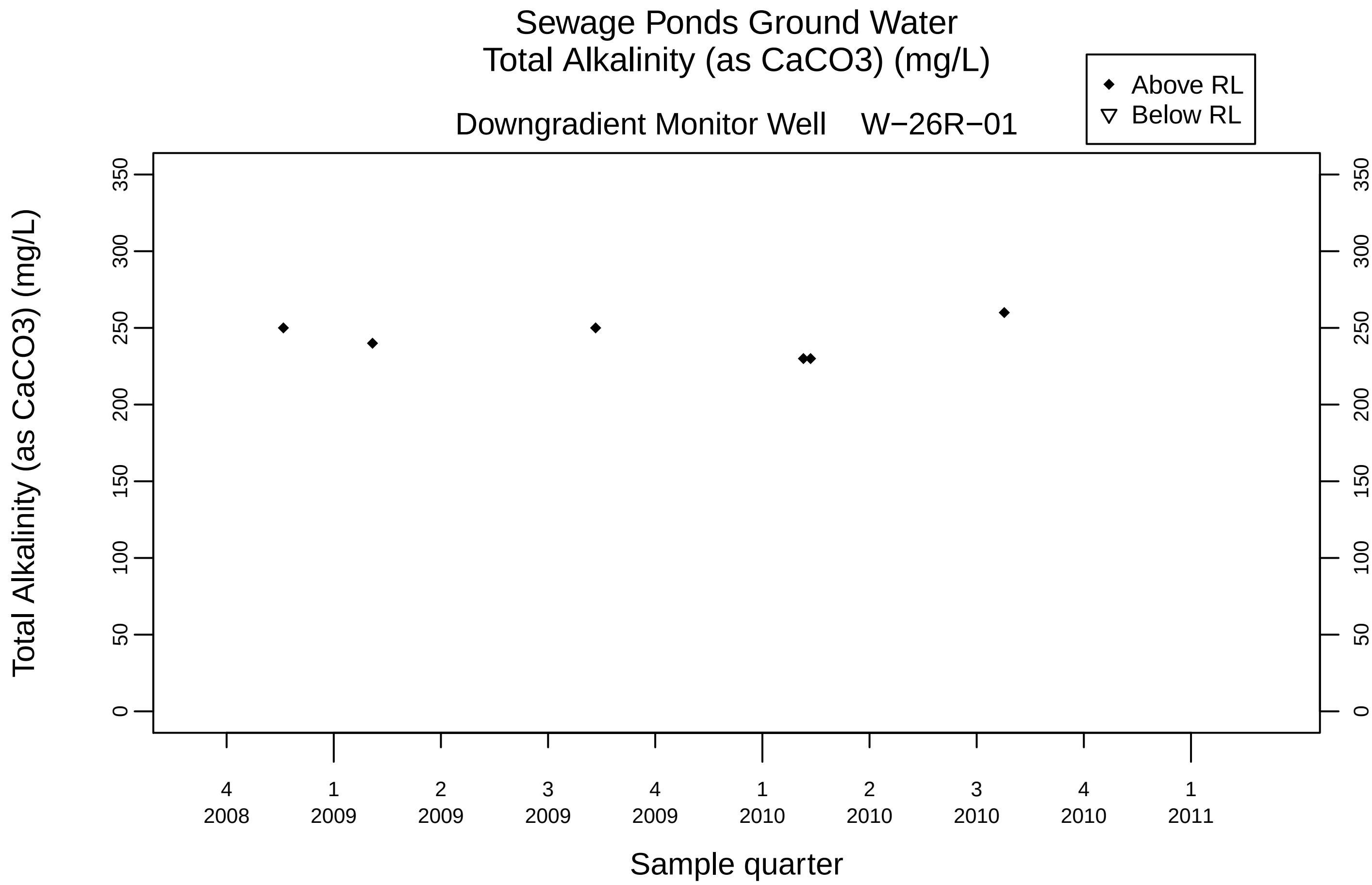

Sewage Ponds Ground Water
Total Alkalinity (as CaCO3) (mg/L)
Above RL
Below RL
Crossgradient Monitor Well W−35A−04
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

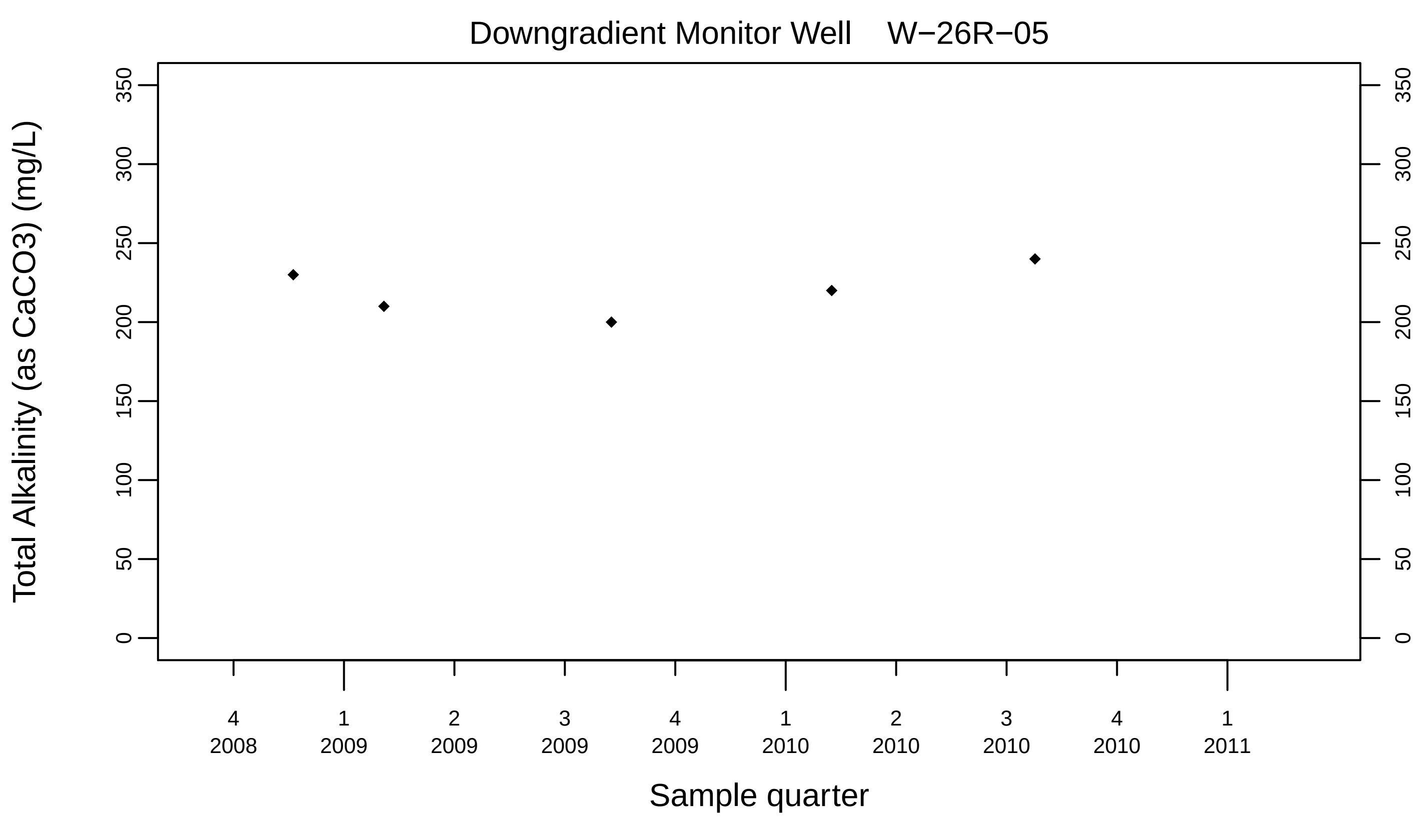

Downgradient Monitor Well W−7DS
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

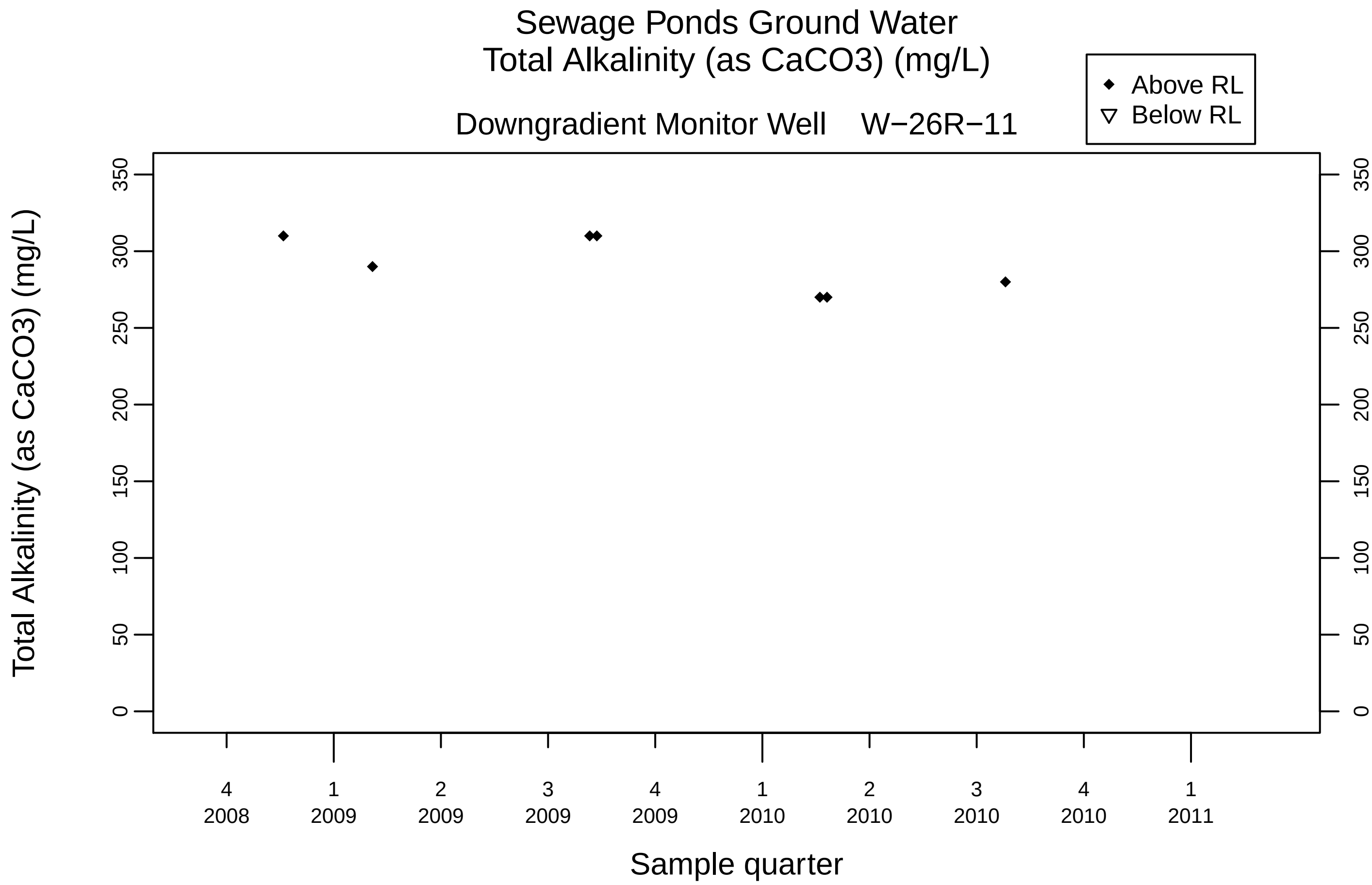
Sewage Ponds Ground Water
Total Alkalinity (as CaCO3) (mg/L)



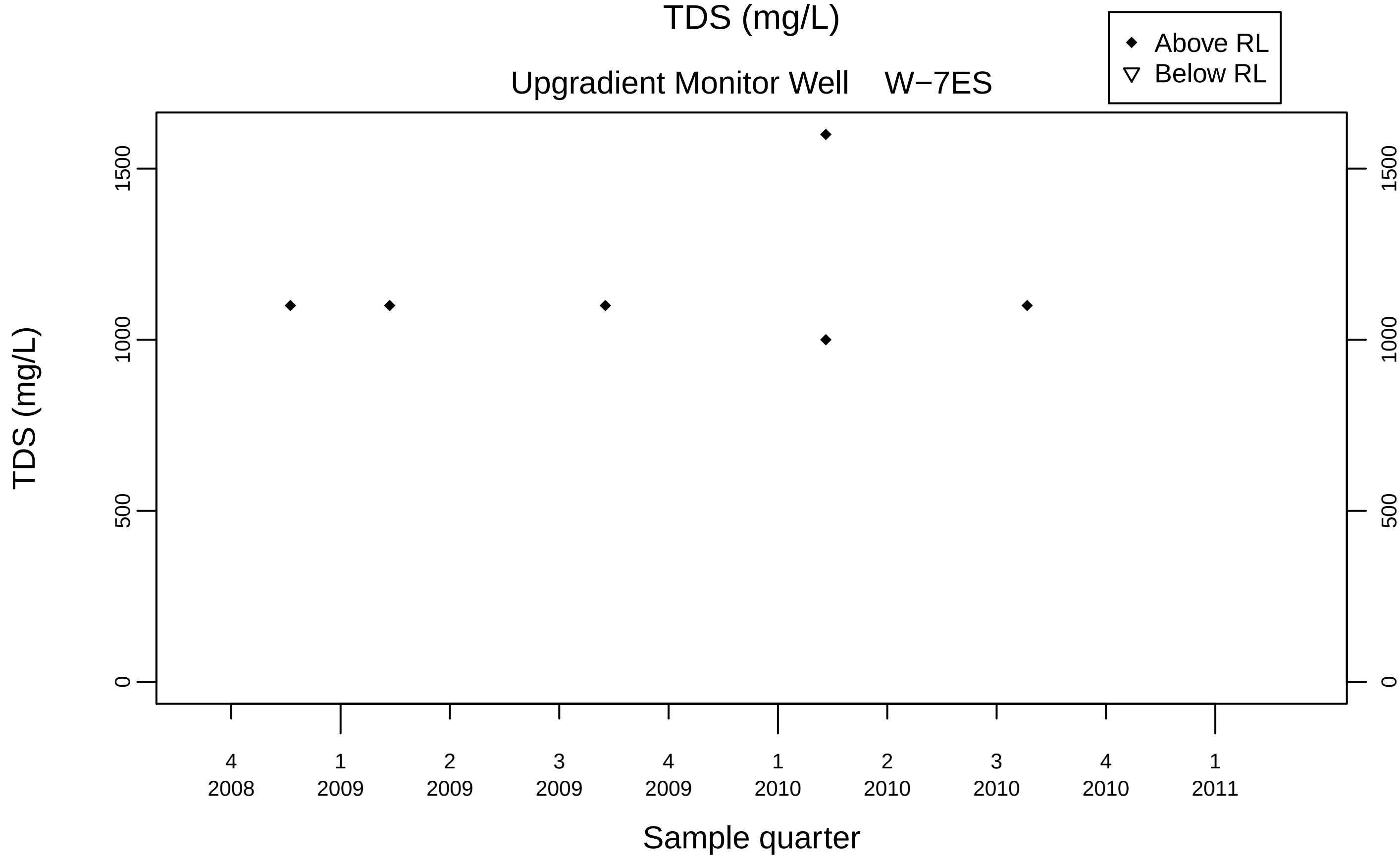


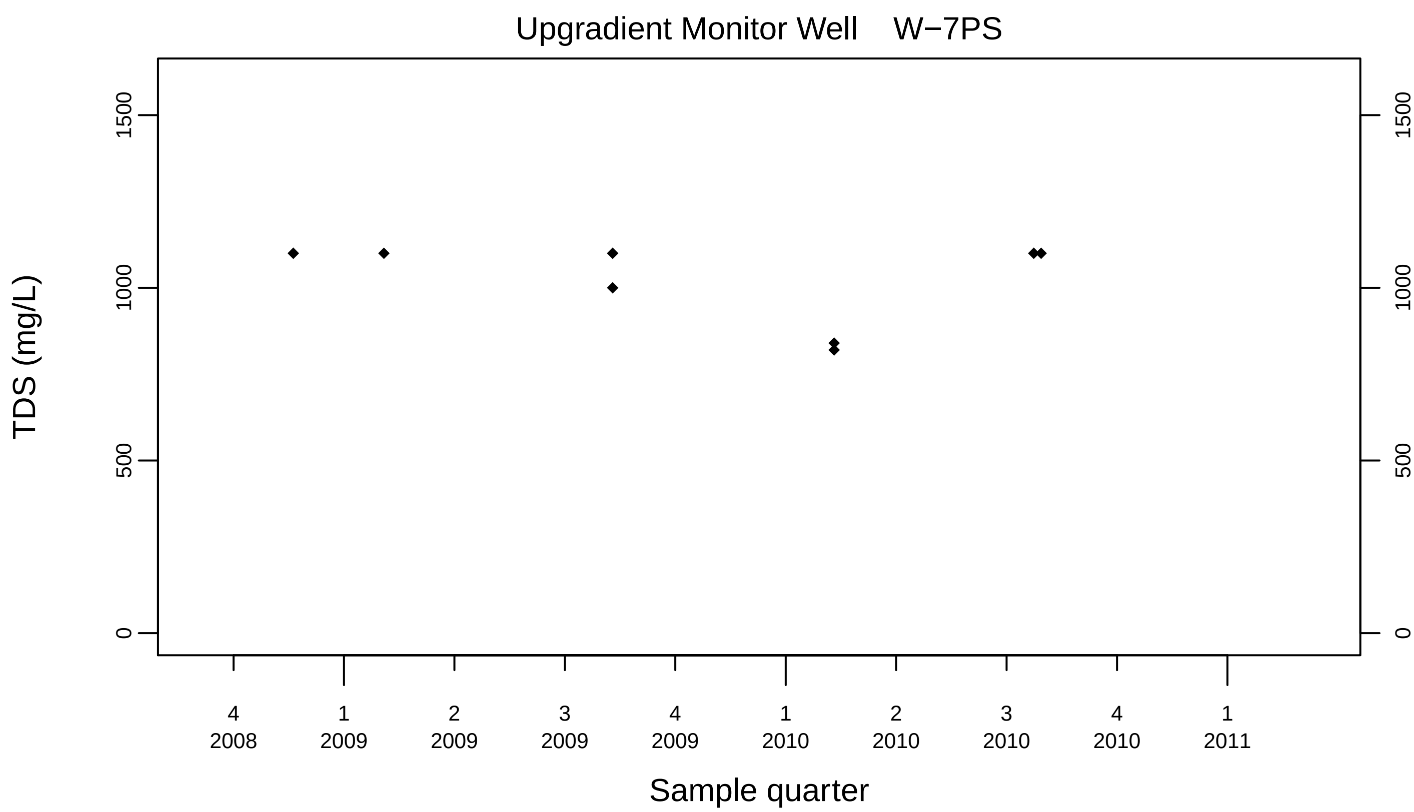

Sewage Ponds Ground Water
Total Alkalinity (as CaCO3) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


Downgradient Monitor Well W−26R−05
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

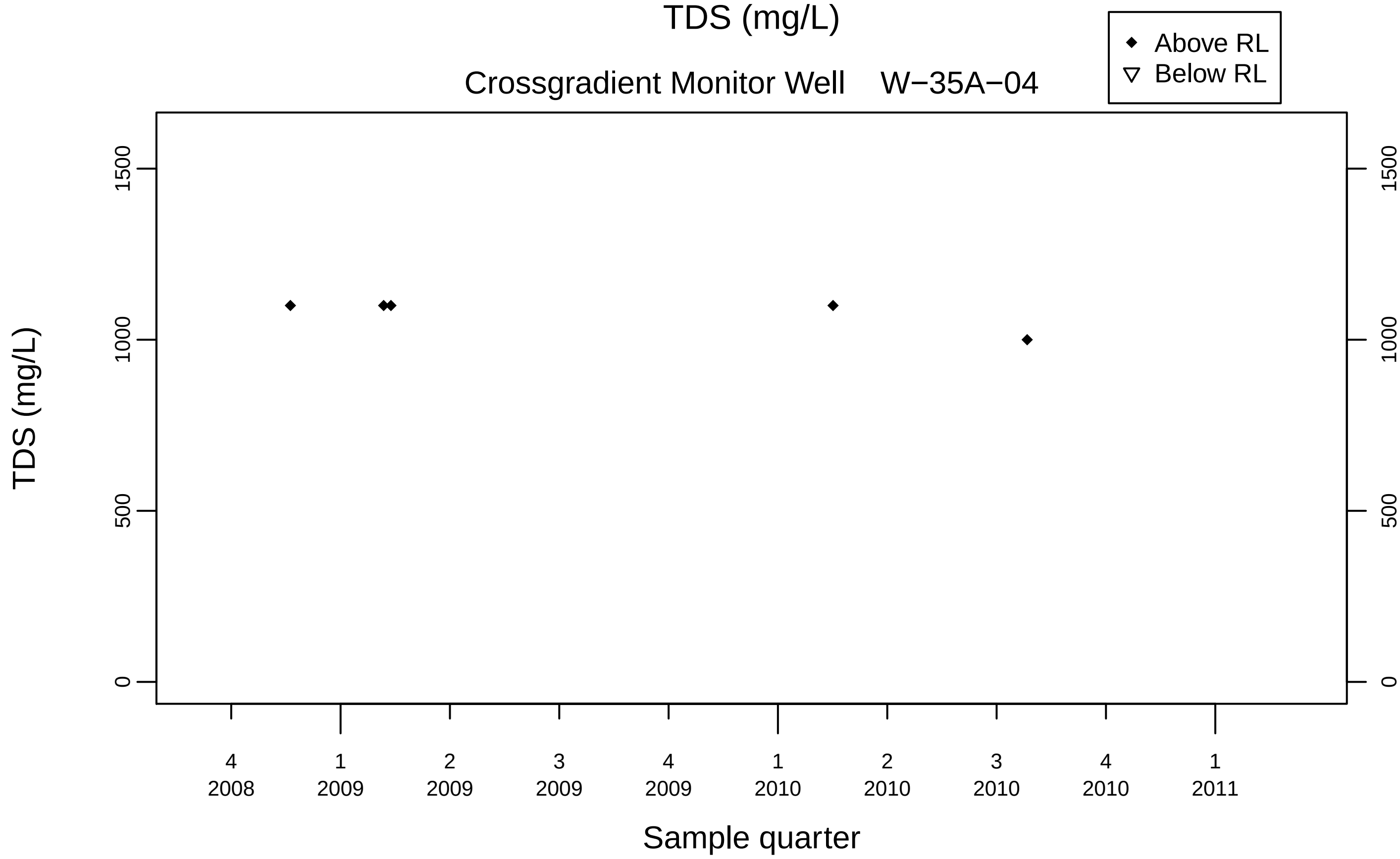

Sewage Ponds Ground Water
Total Alkalinity (as CaCO3) (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Total Alkalinity (as CaCO3) (mg/L)
0
50
100
150
200
250
300
350
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

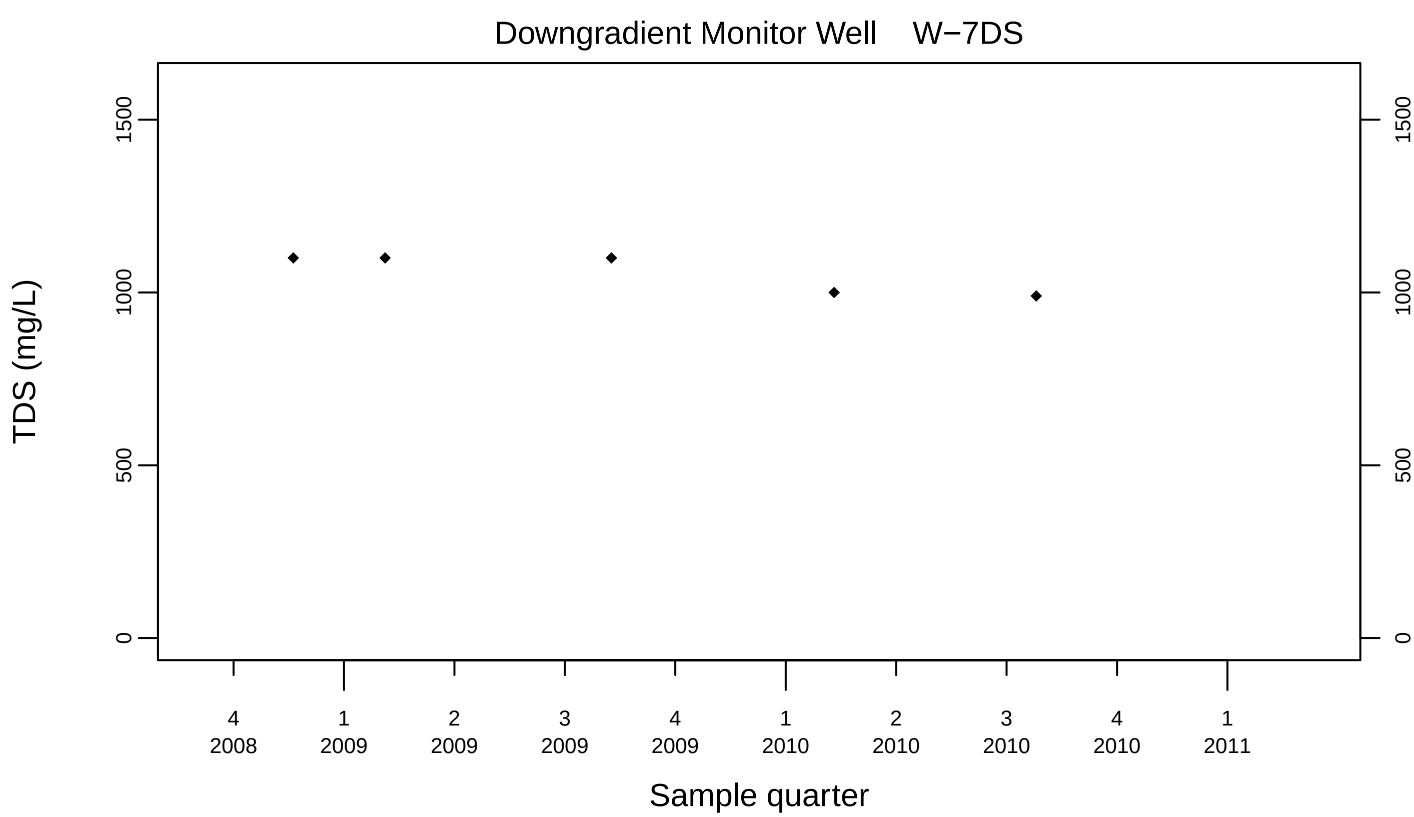
Sewage Ponds Ground Water
TDS (mg/L)



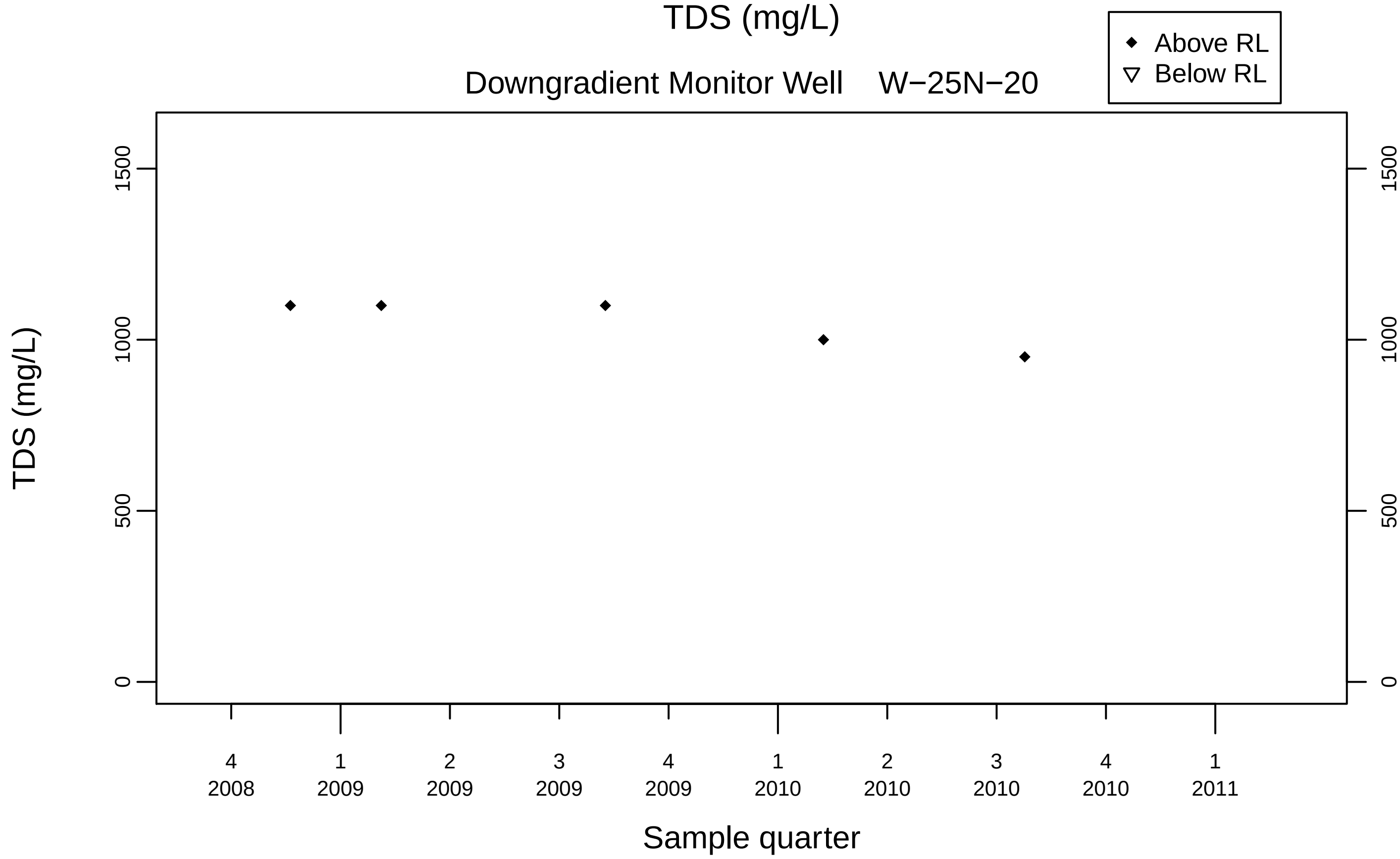


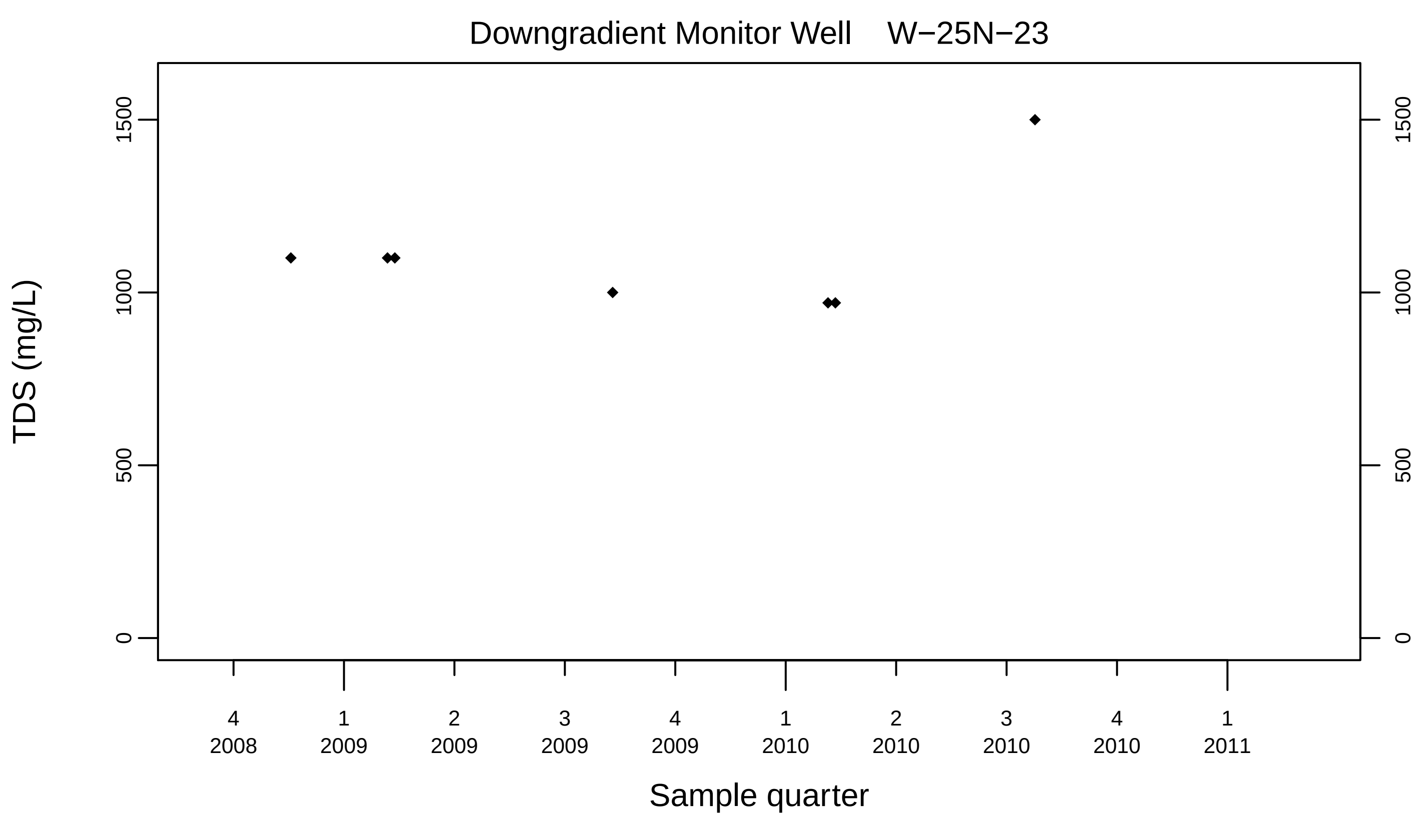
Sewage Ponds Ground Water
TDS (mg/L)



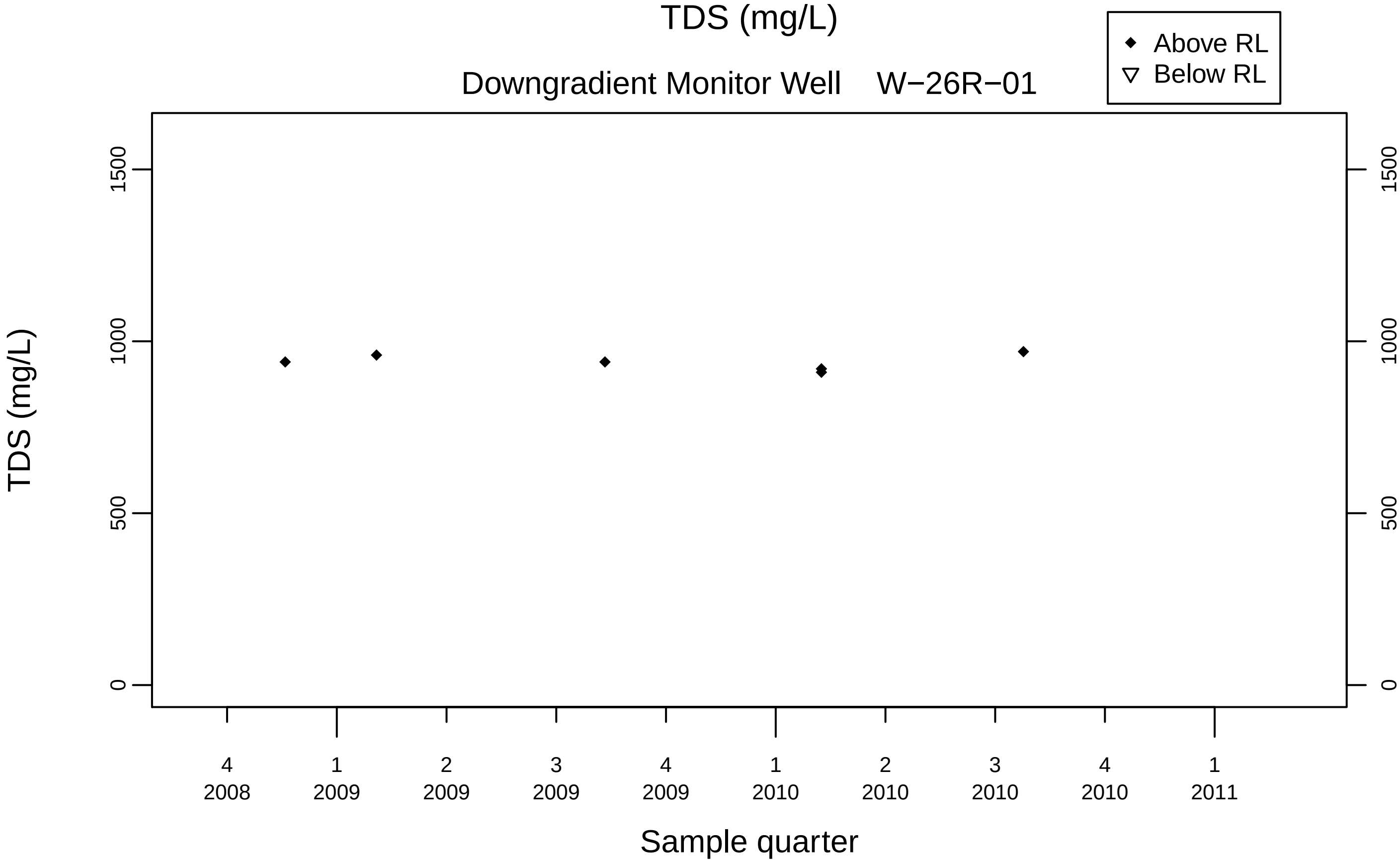


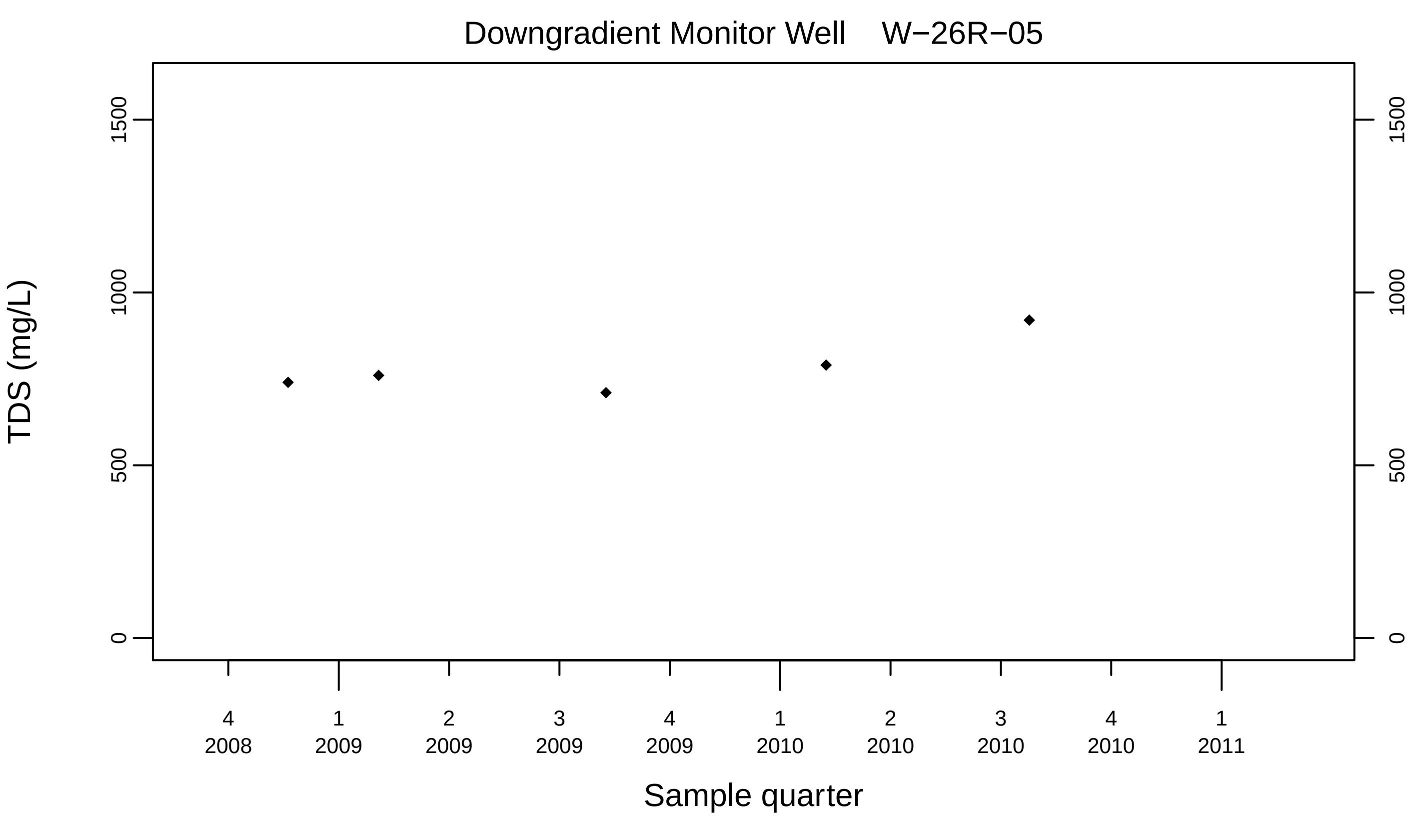
Sewage Ponds Ground Water
TDS (mg/L)

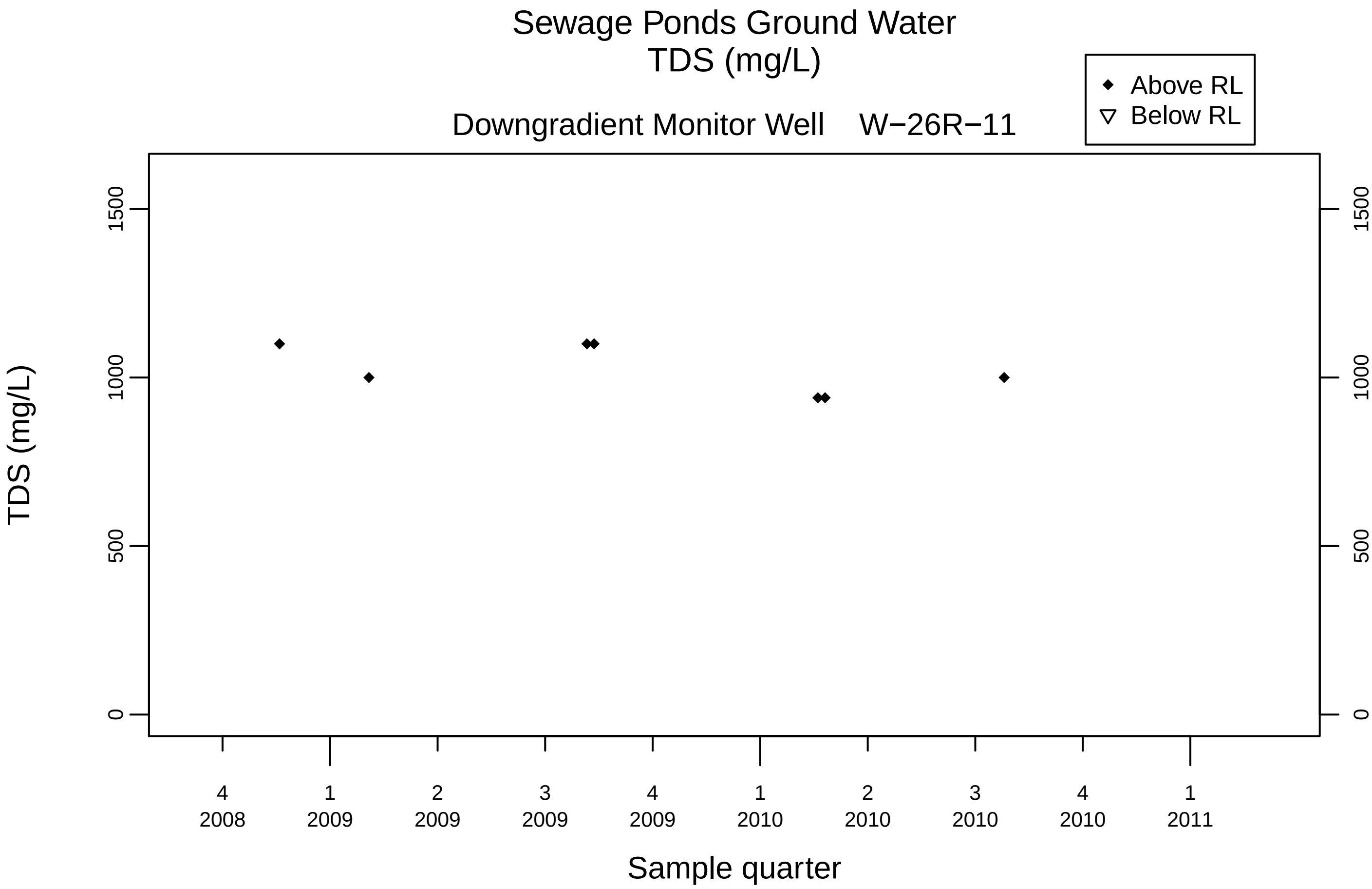




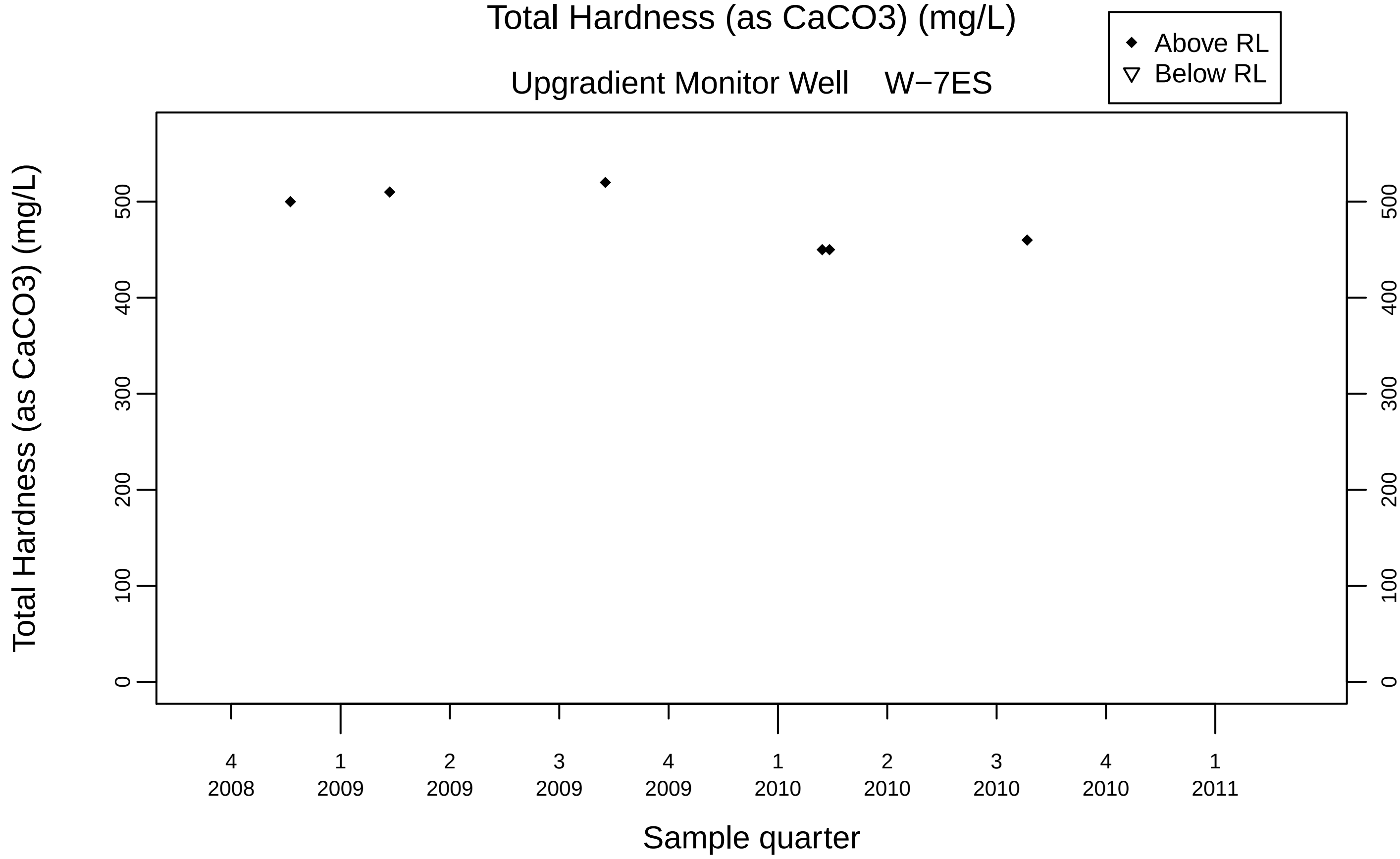
Sewage Ponds Ground Water
TDS (mg/L)

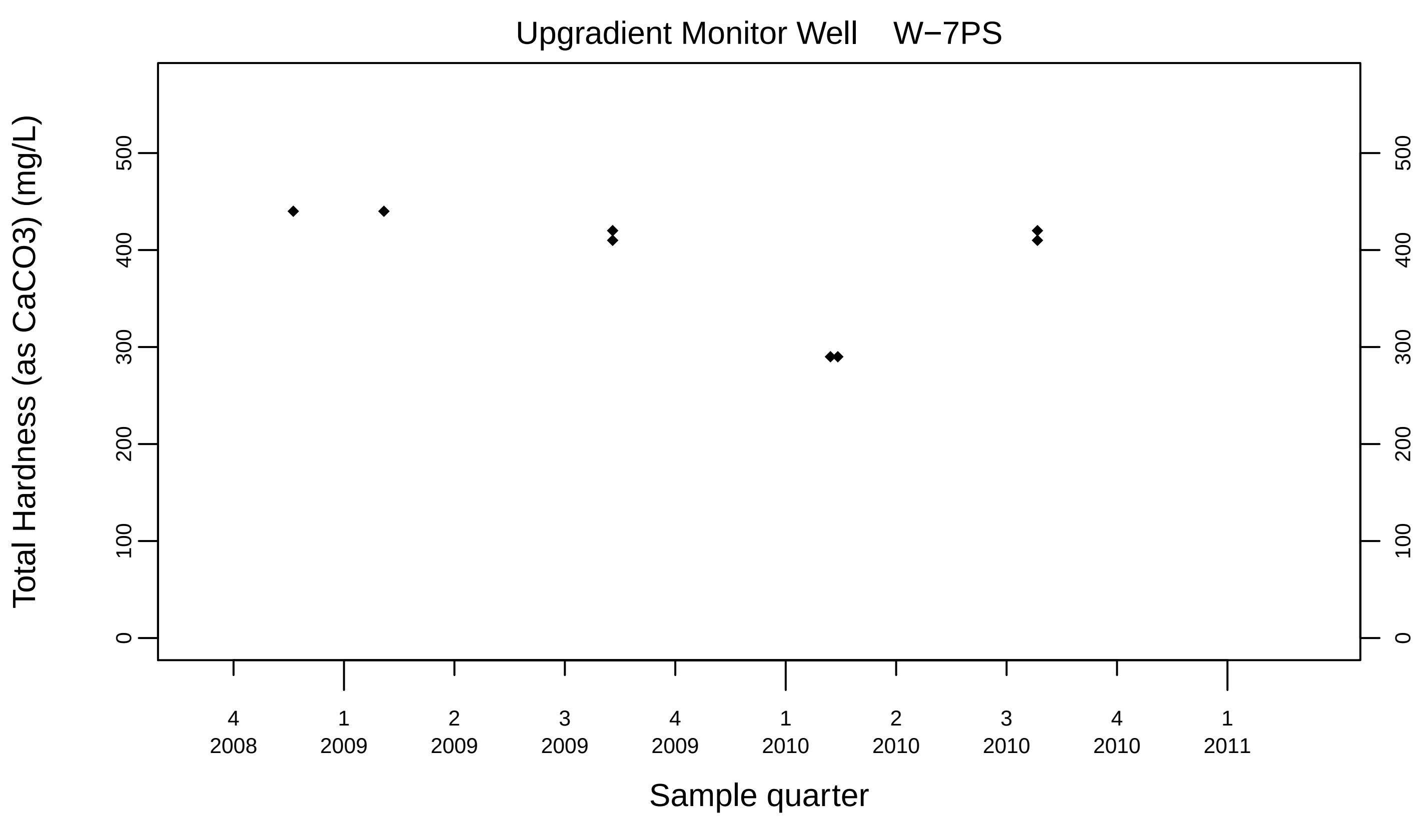




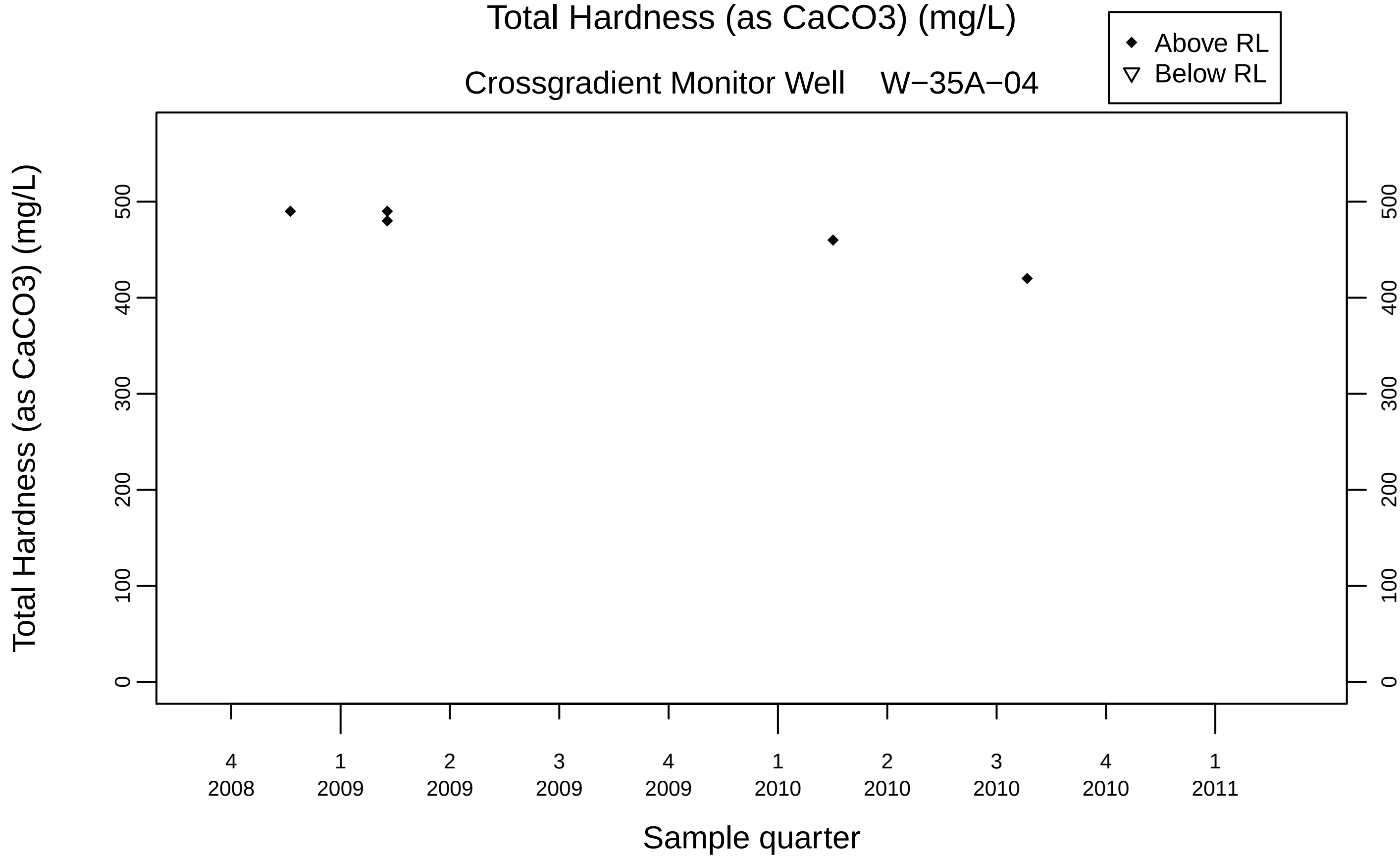

Sewage Ponds Ground Water
TDS (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
TDS (mg/L)
0
500
1000
1500
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

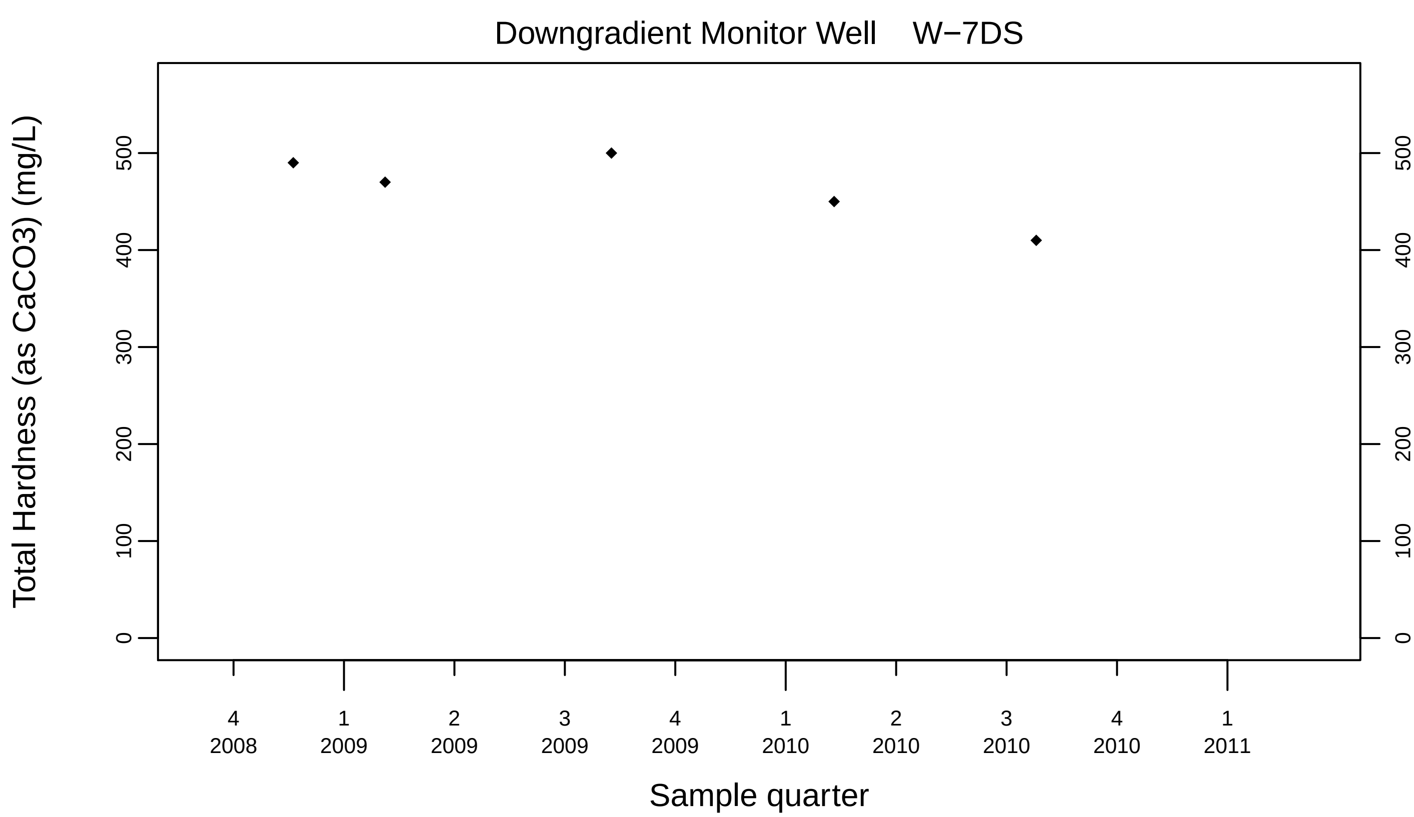
Sewage Ponds Ground Water
Total Hardness (as CaCO3) (mg/L)



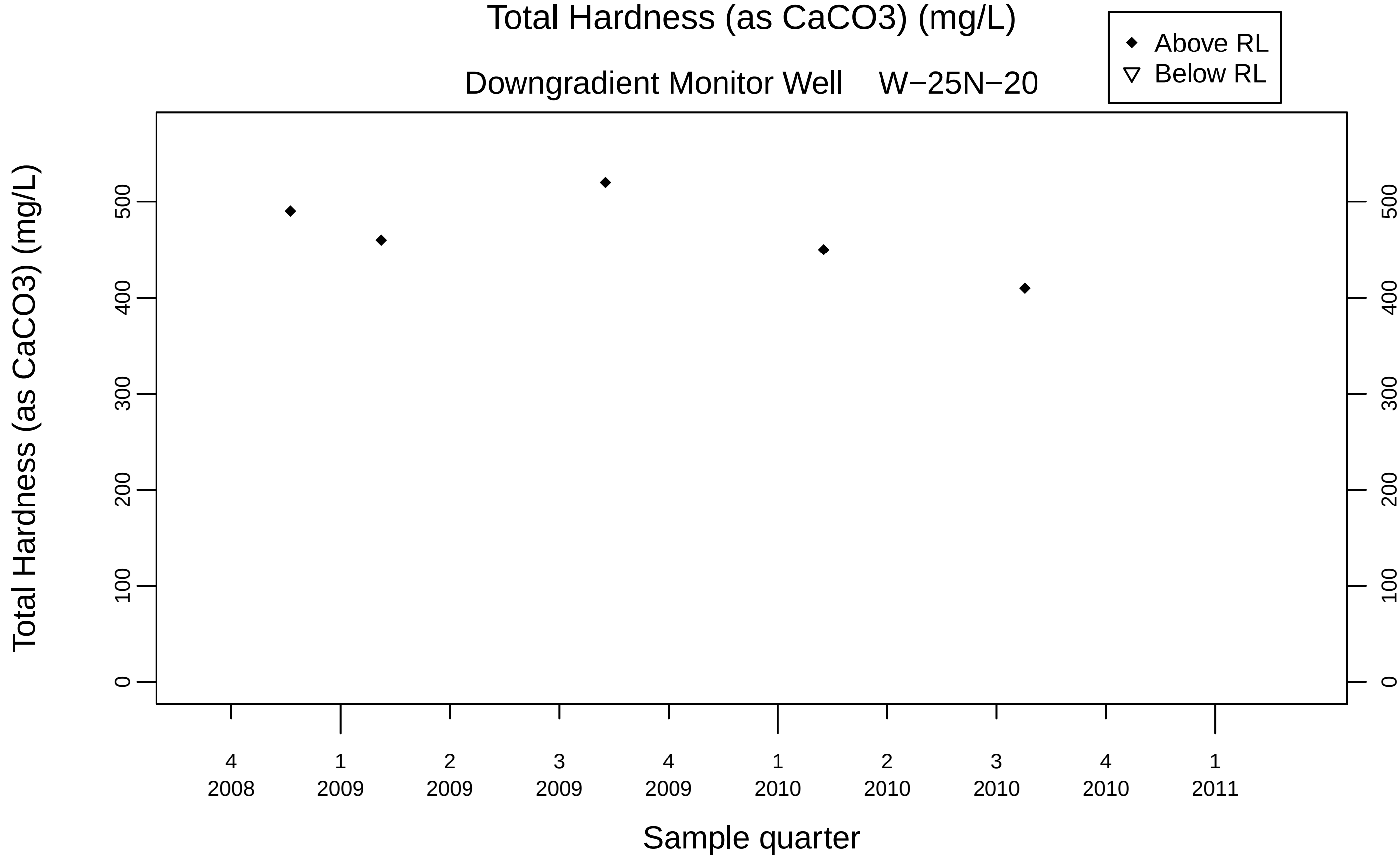


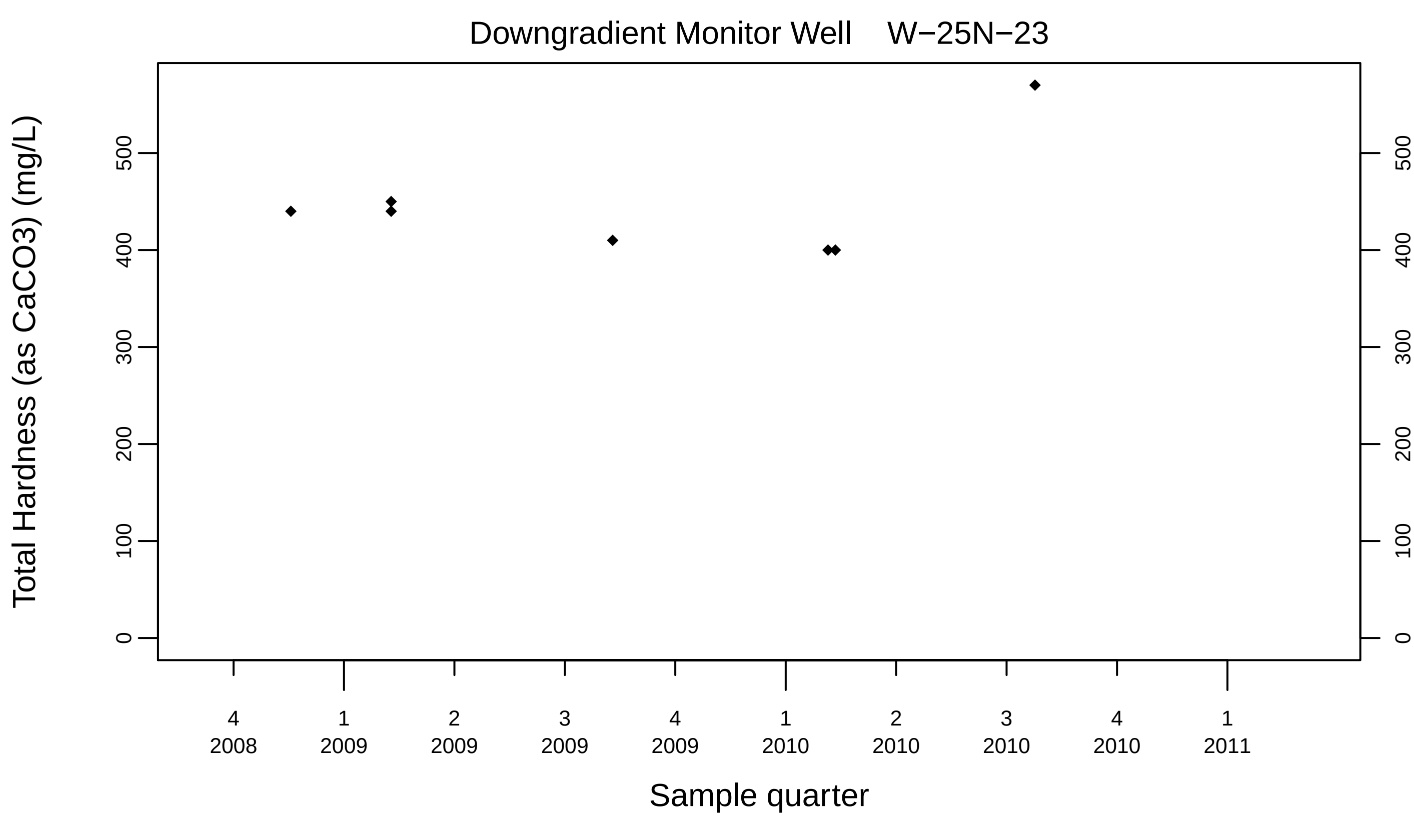
Sewage Ponds Ground Water
Total Hardness (as CaCO3) (mg/L)



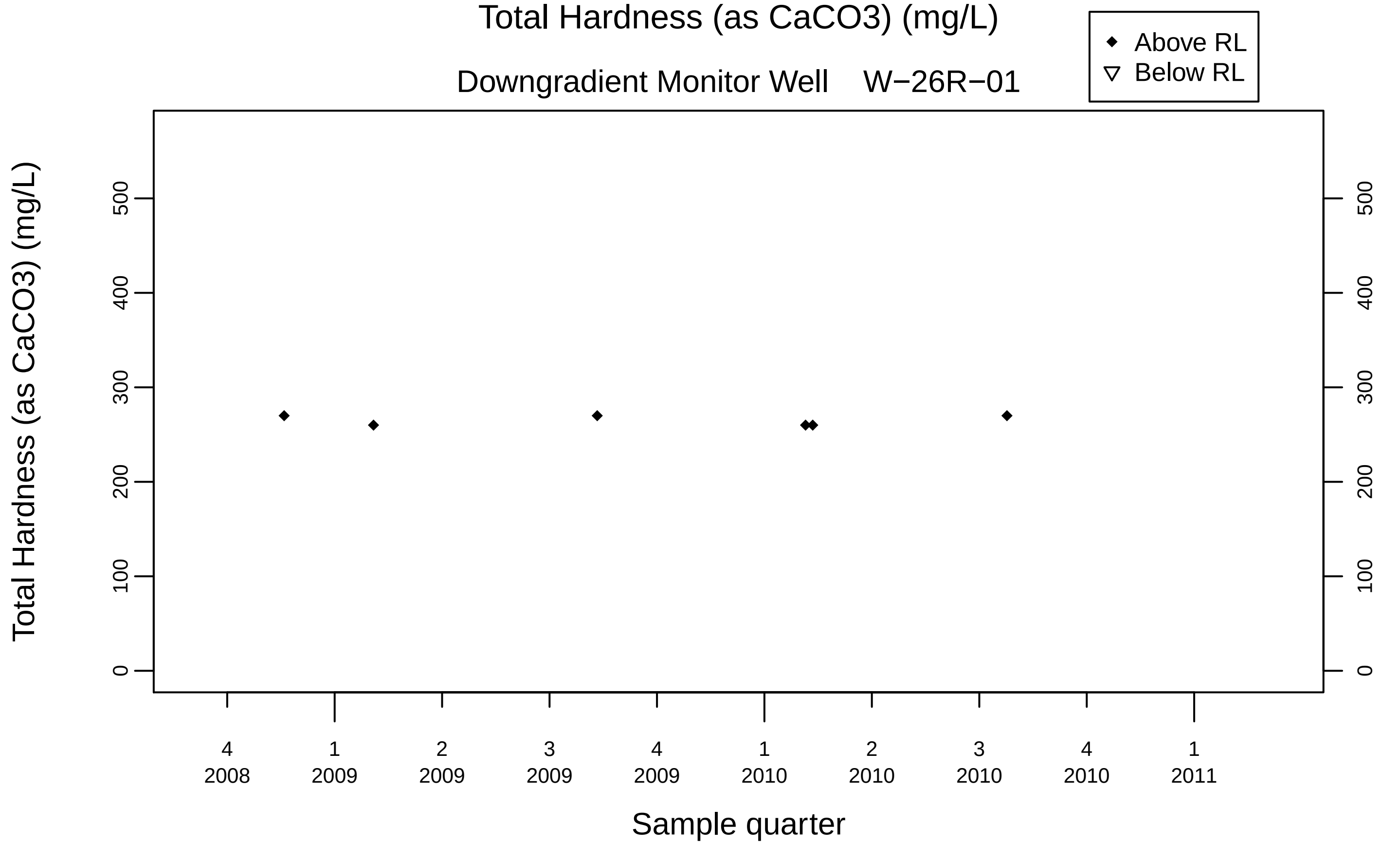


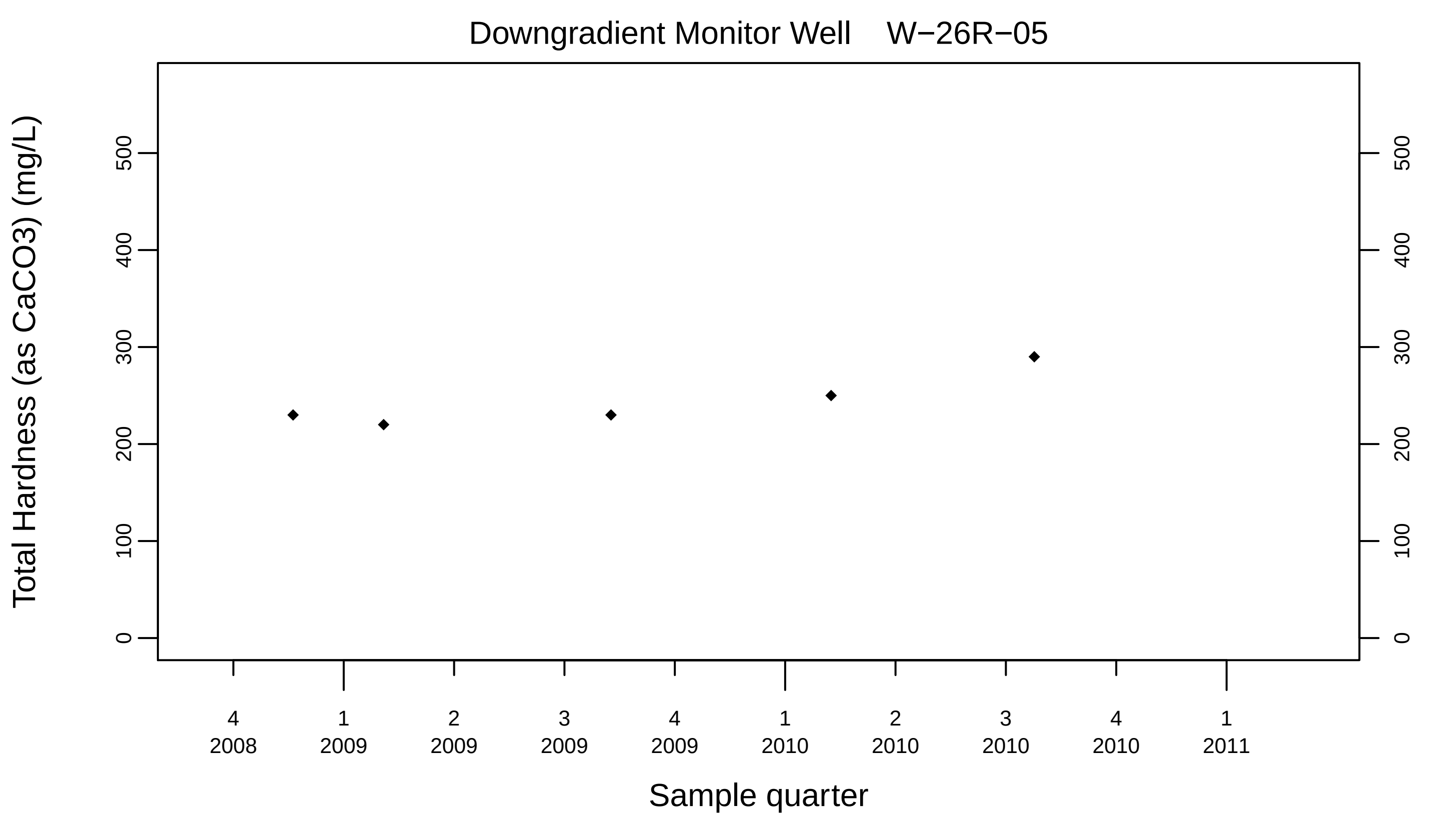
Sewage Ponds Ground Water
Total Hardness (as CaCO3) (mg/L)

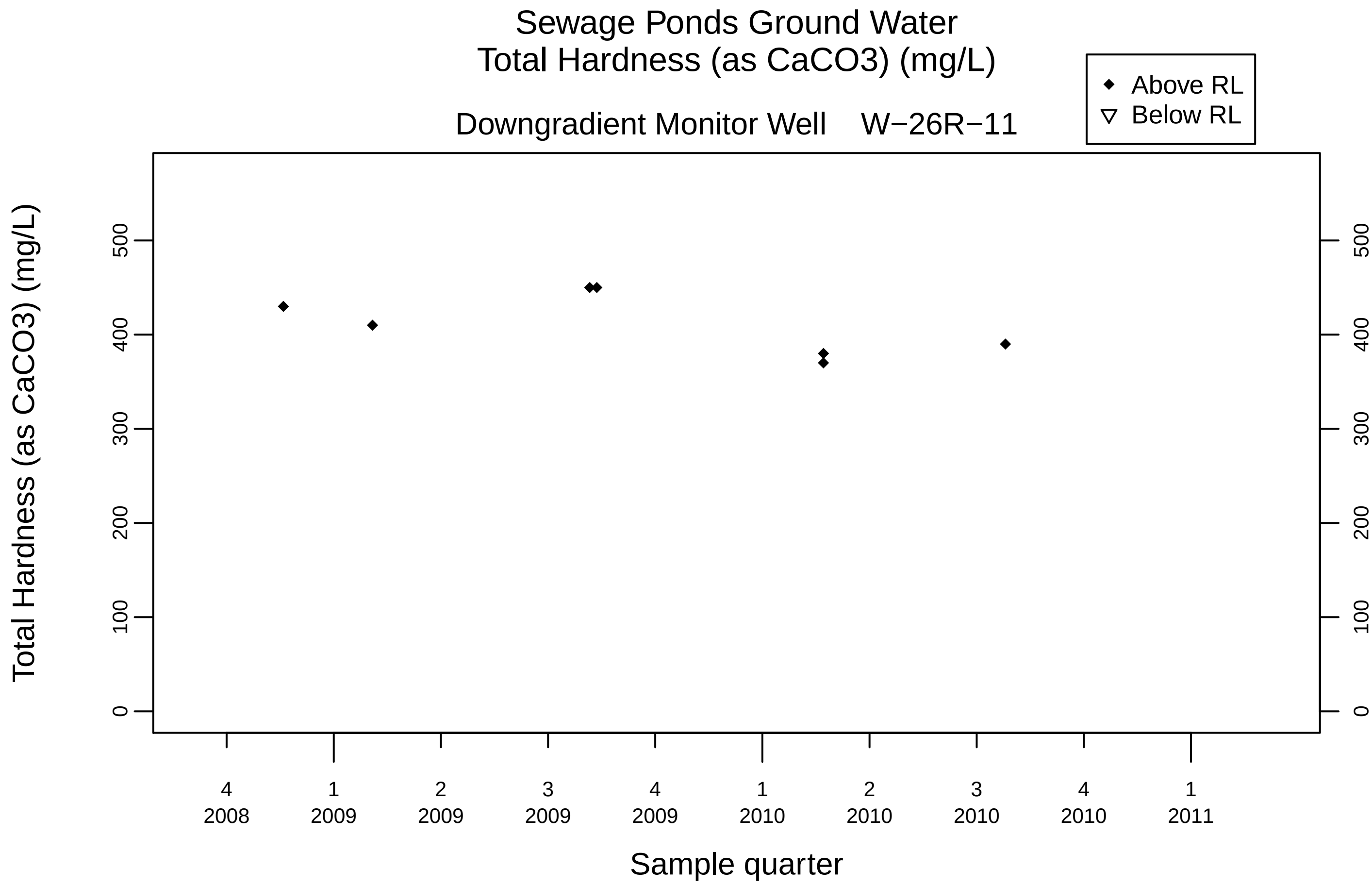




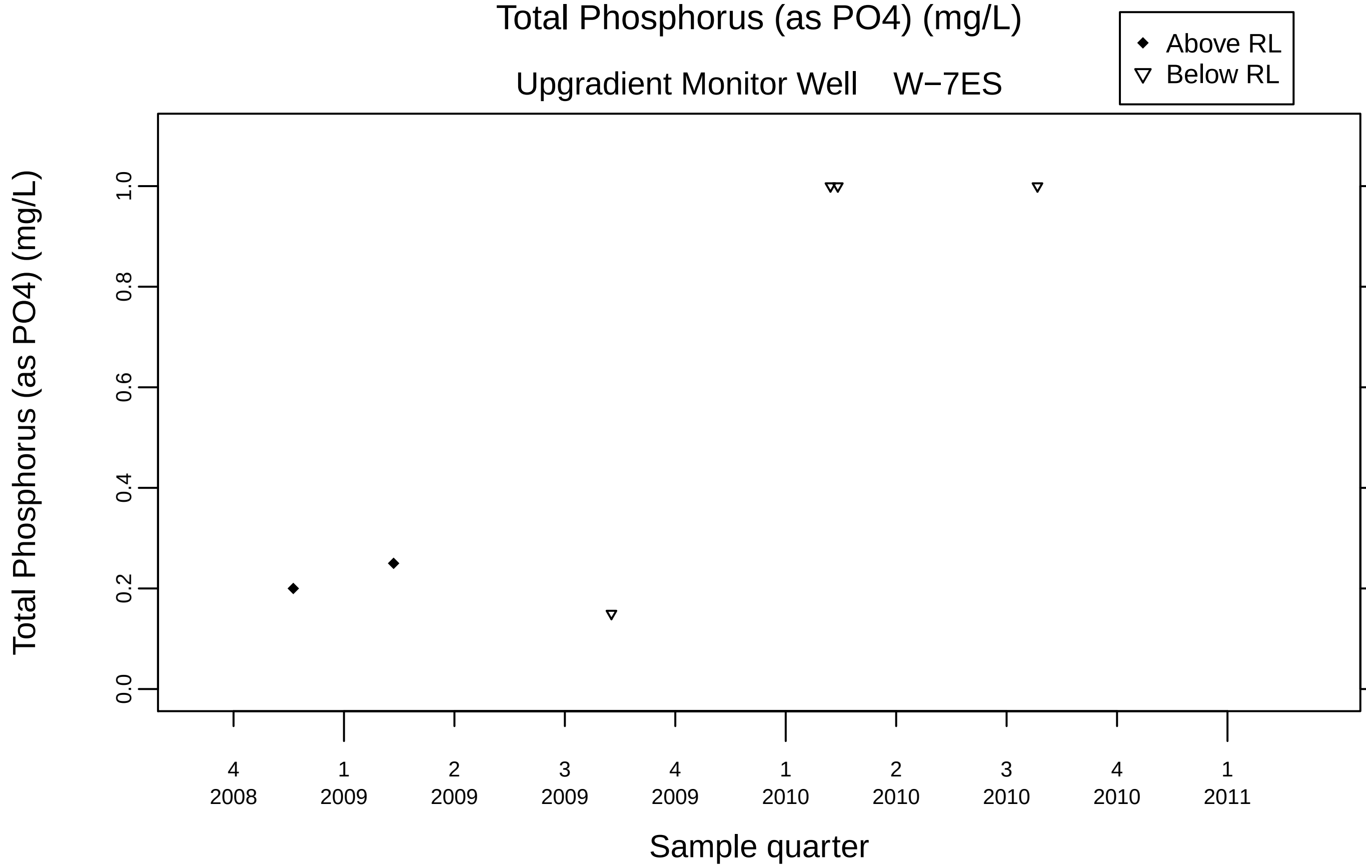
Sewage Ponds Ground Water
Total Hardness (as CaCO3) (mg/L)

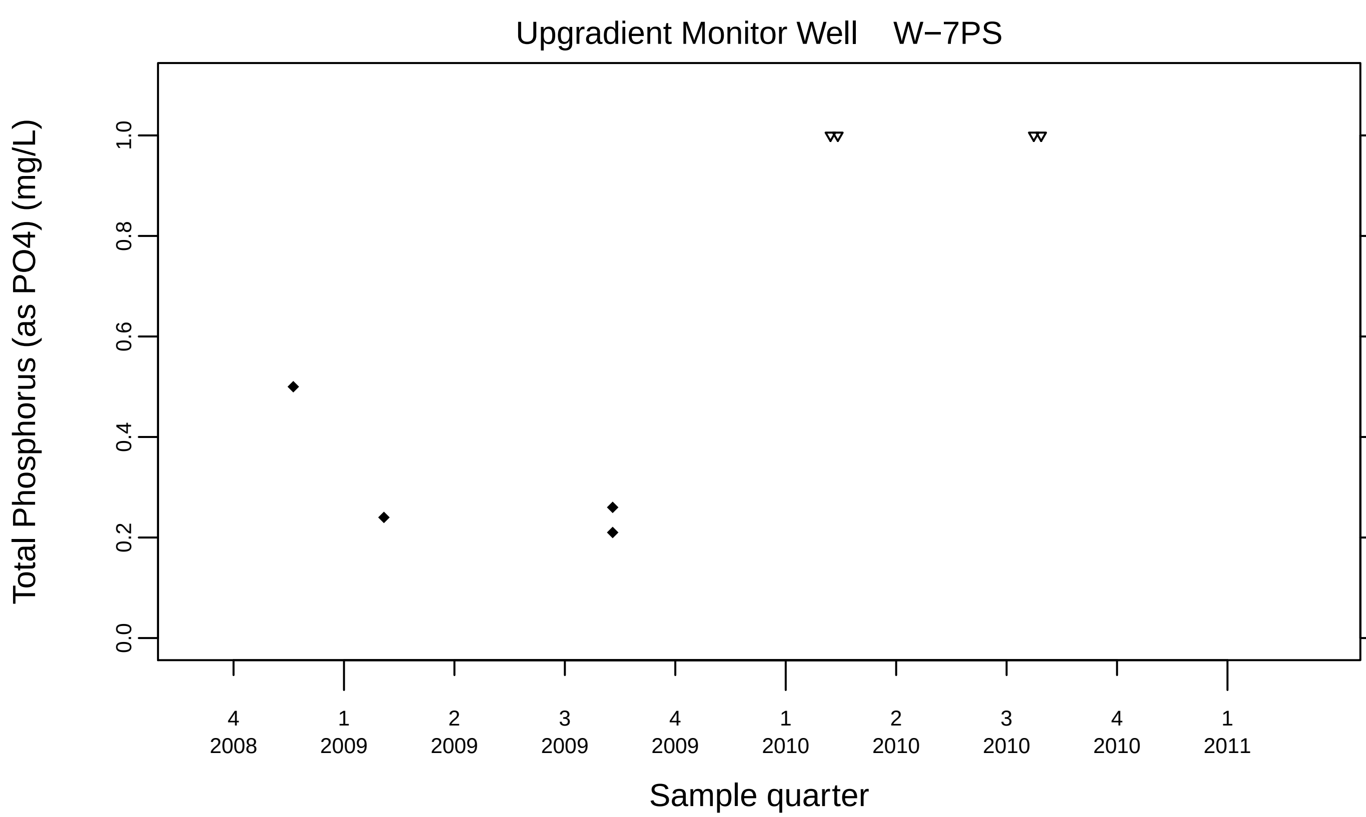





Sewage Ponds Ground Water
Total Hardness (as CaCO3) (mg/L)
Downgradient Monitor Well W−26R−11
Above RL
Below RL
Total Hardness (as CaCO3) (mg/L)
0
100
200
300
400
500
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

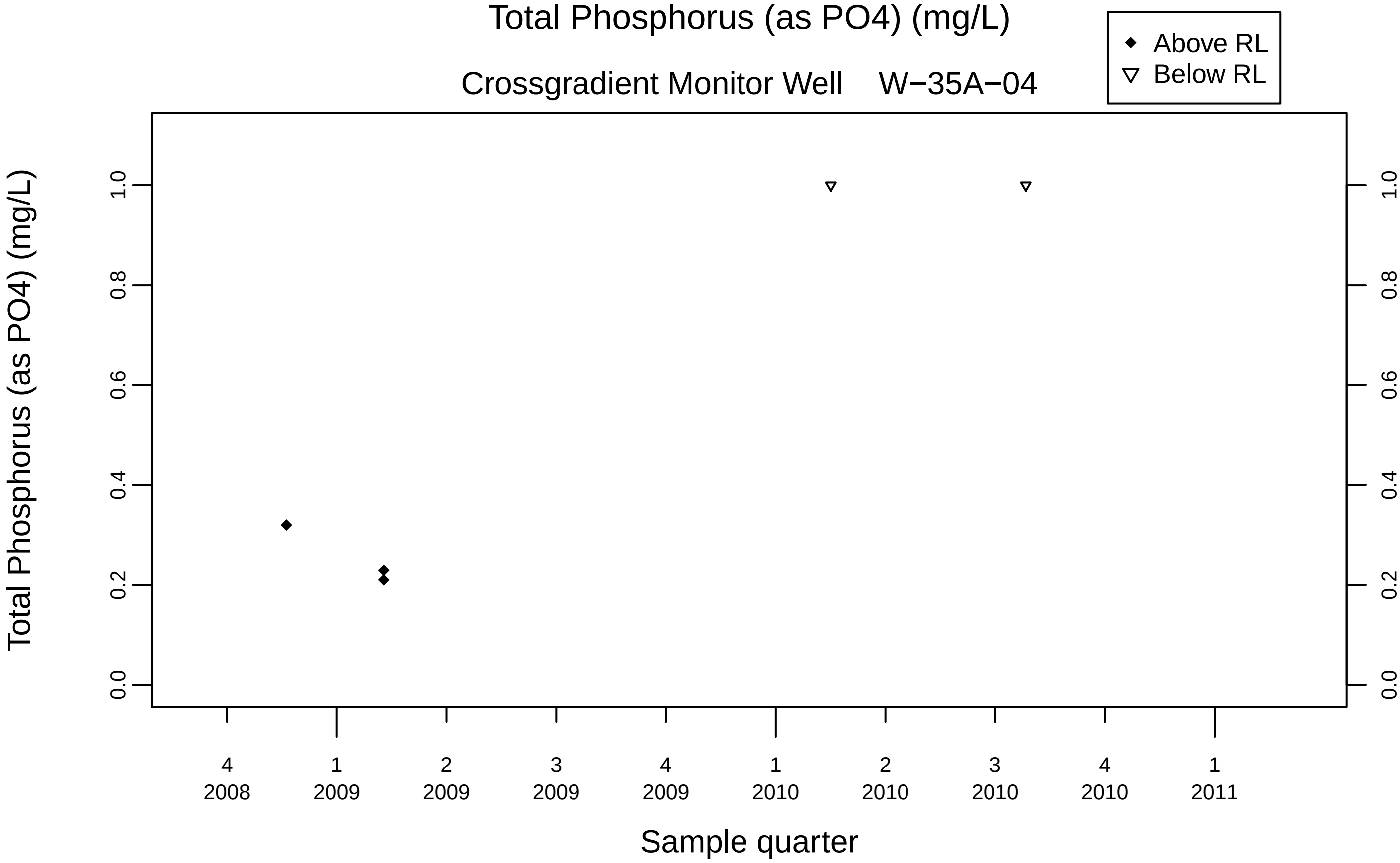
Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)



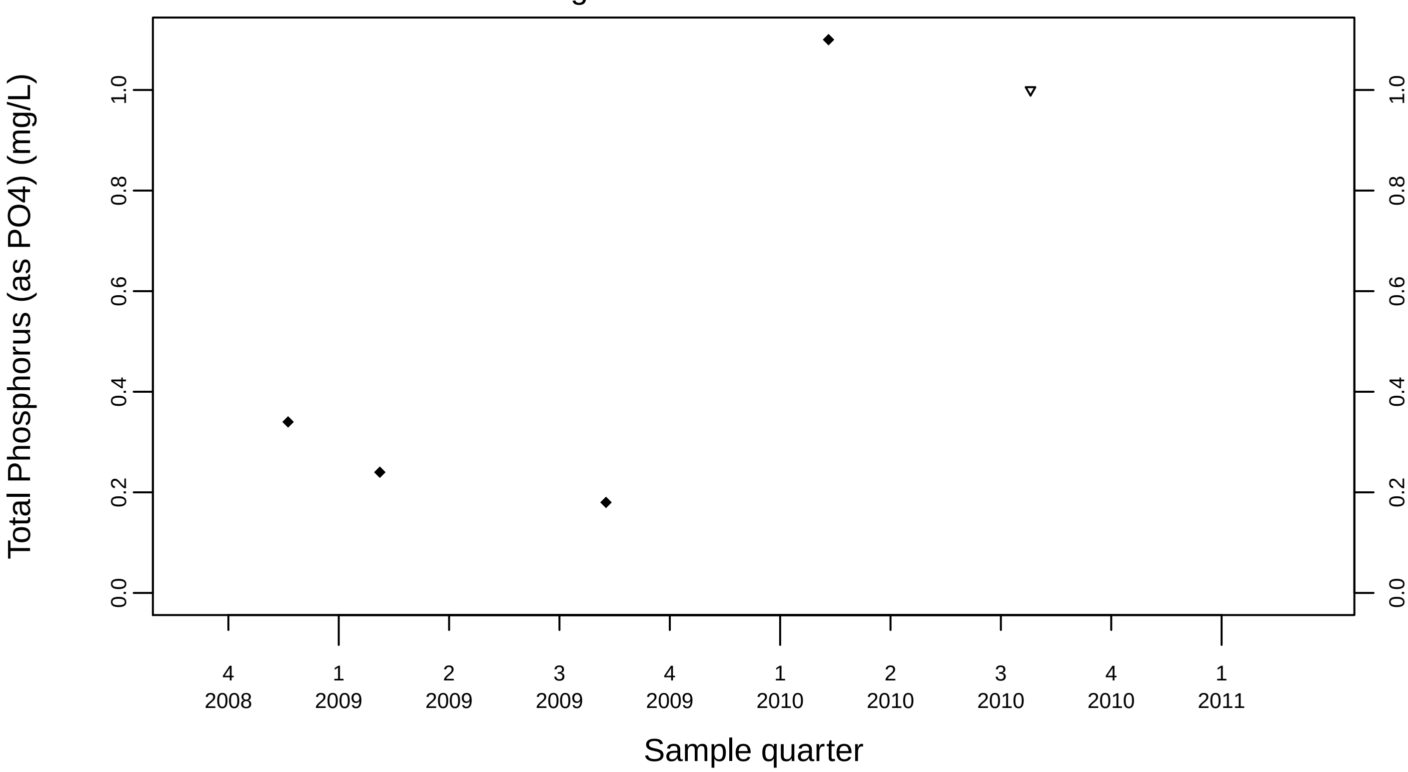


Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)

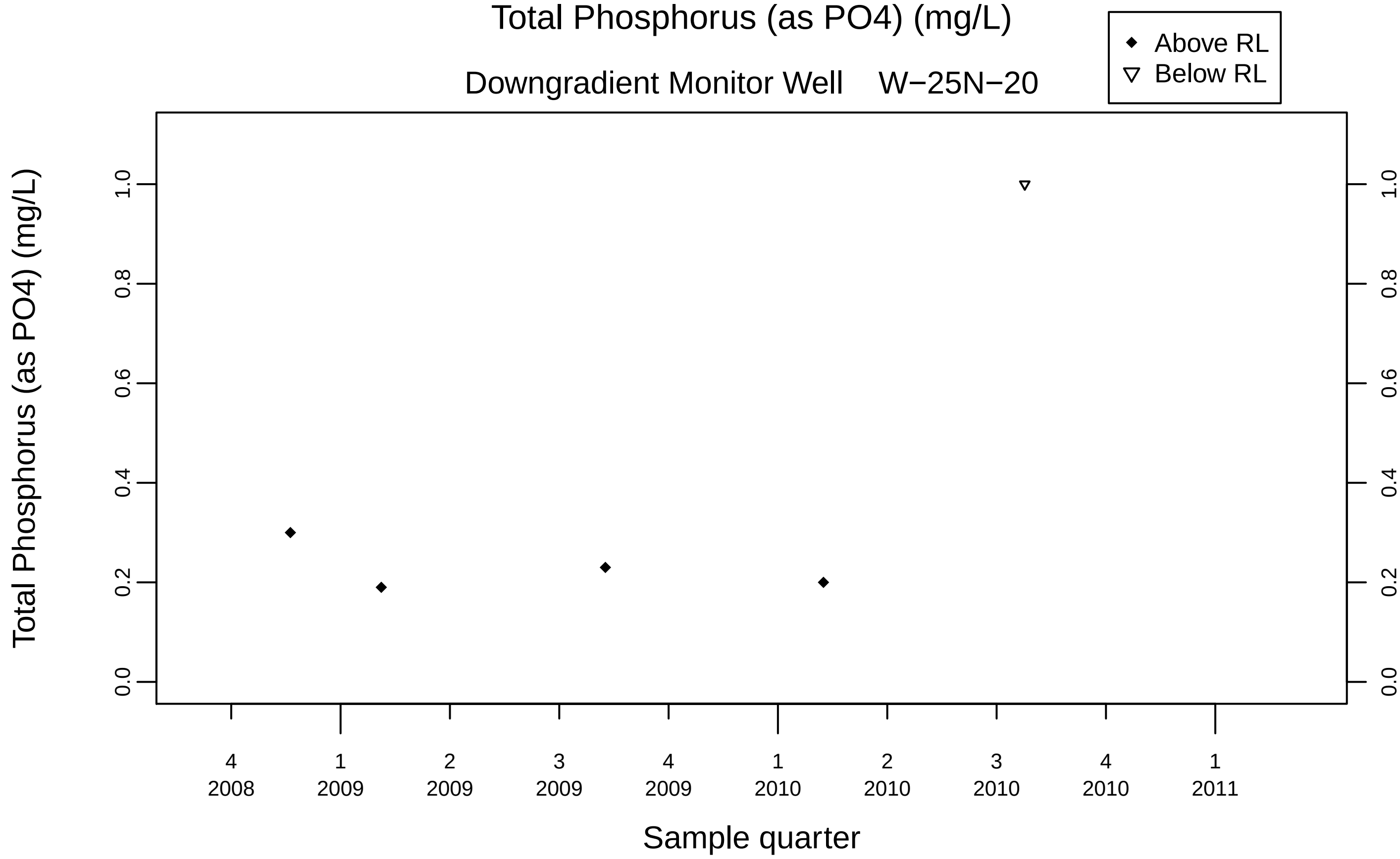
Crossgradient Monitor Well W−35A−04

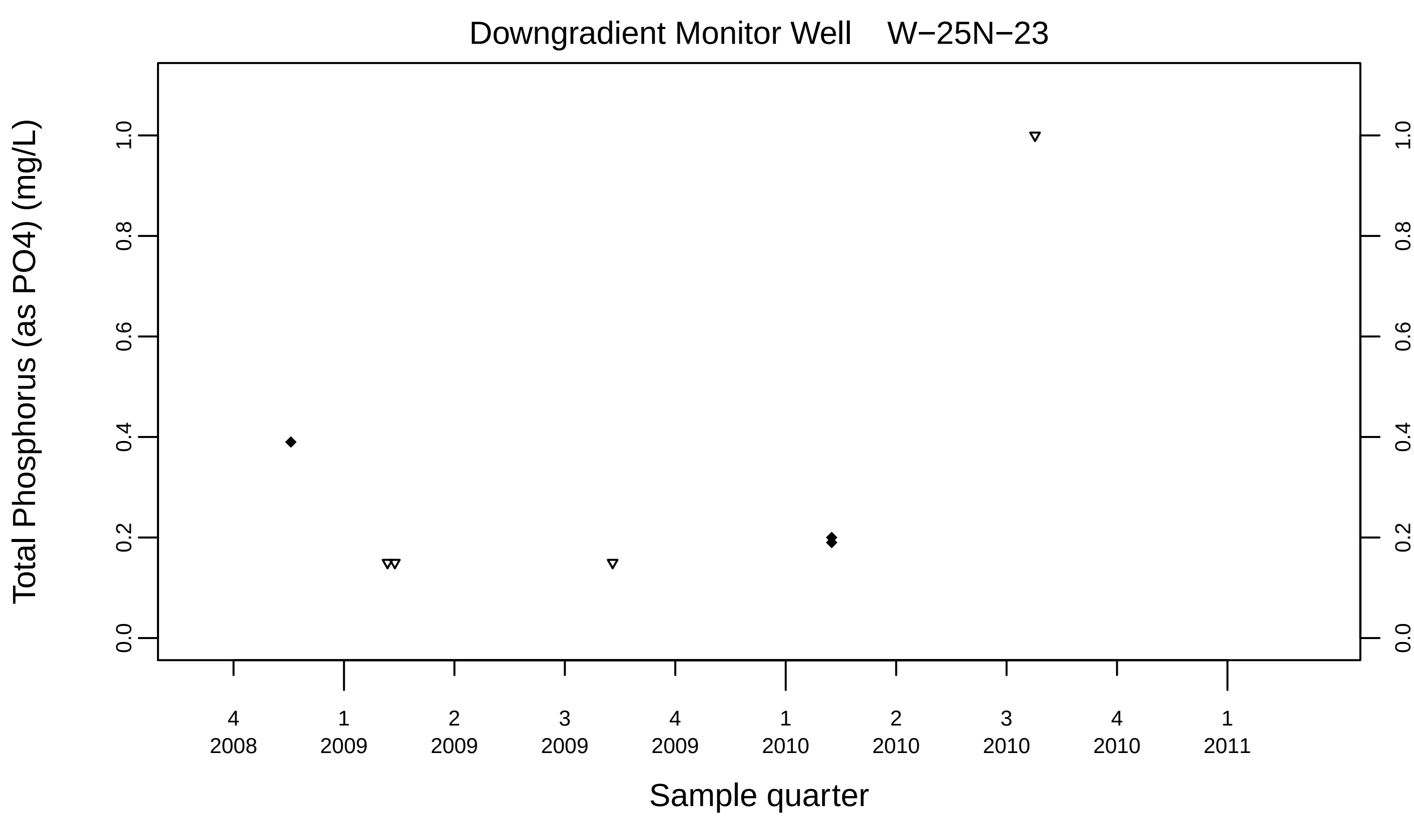


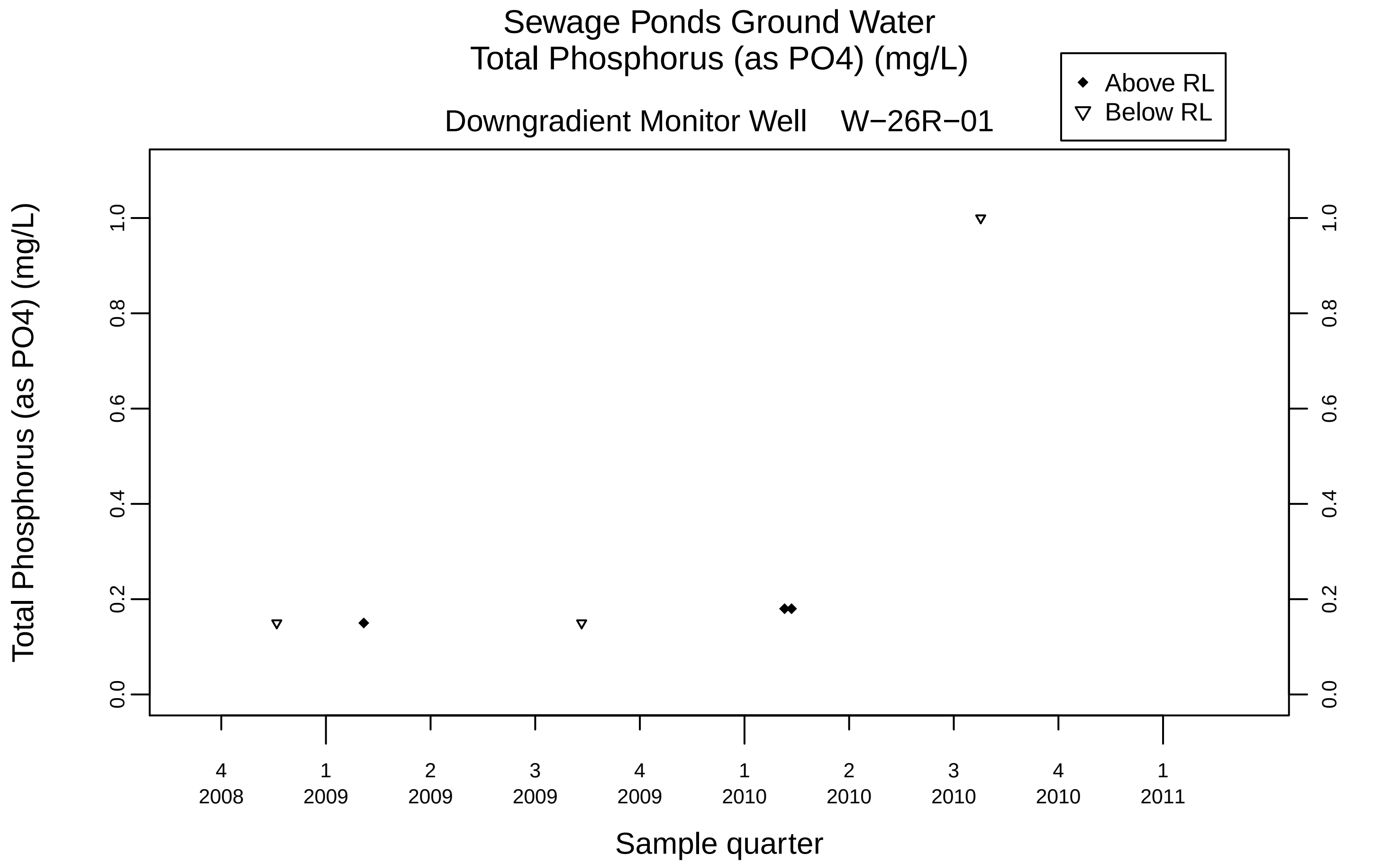
Downgradient Monitor Well W−7DS

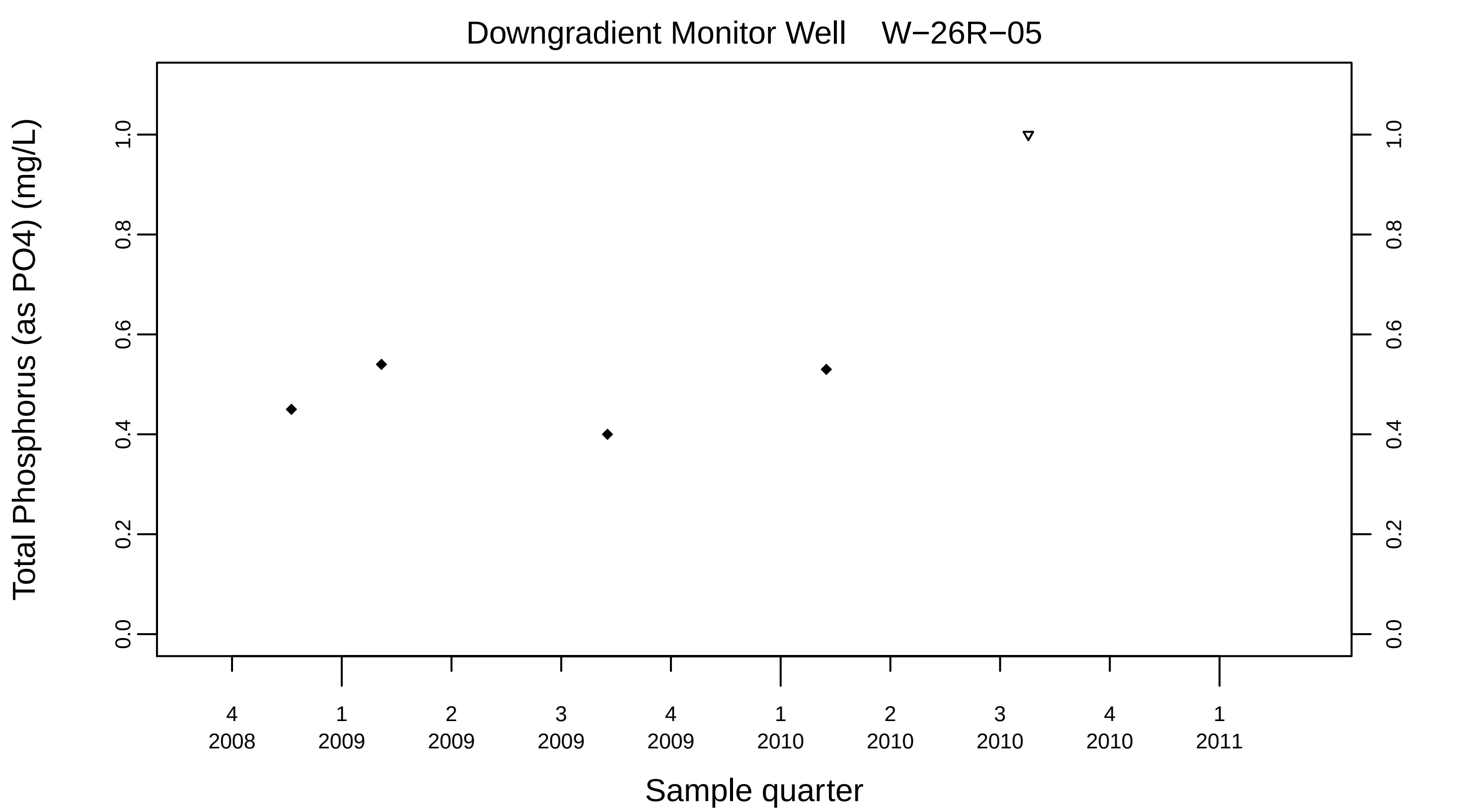


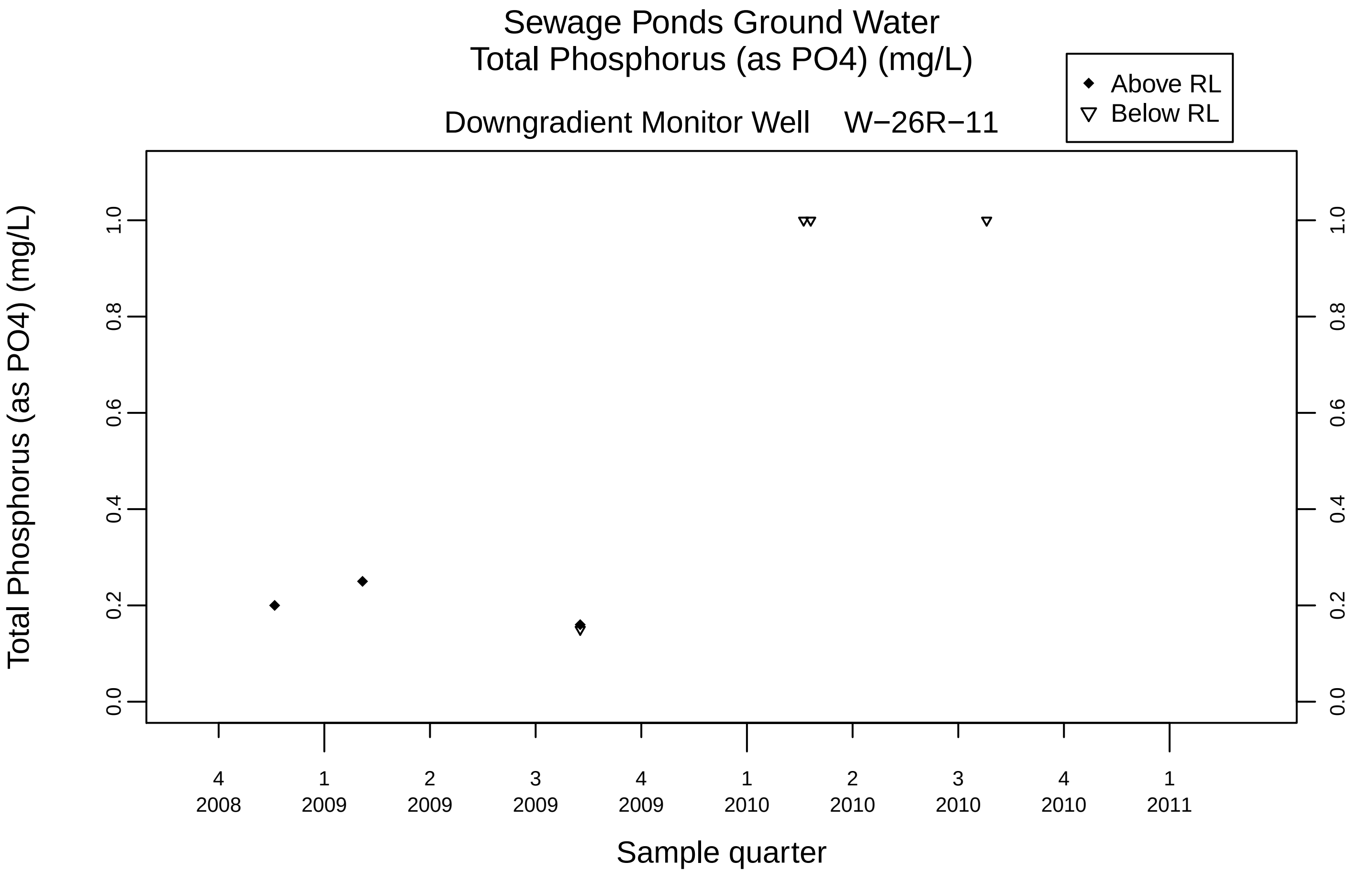
Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)



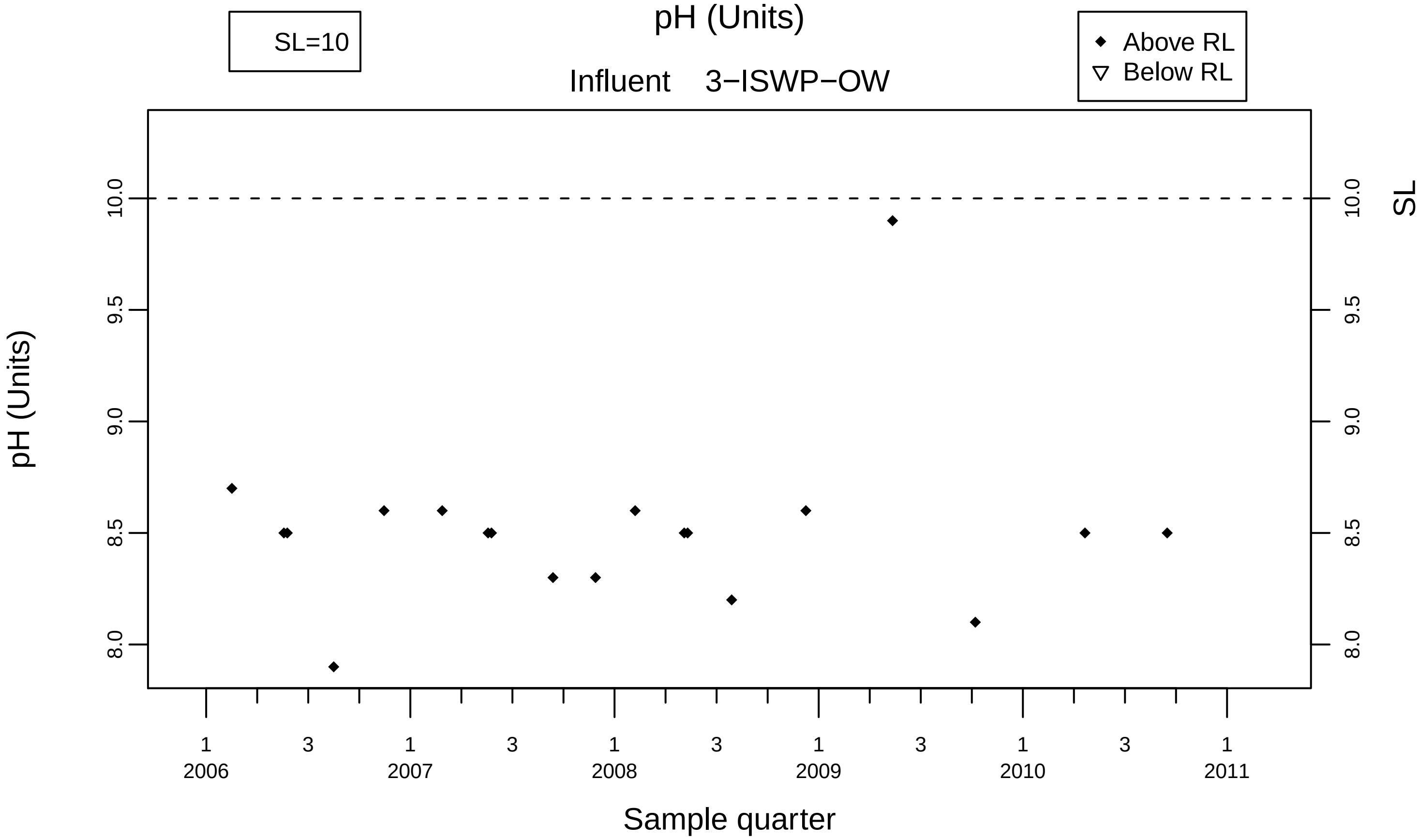


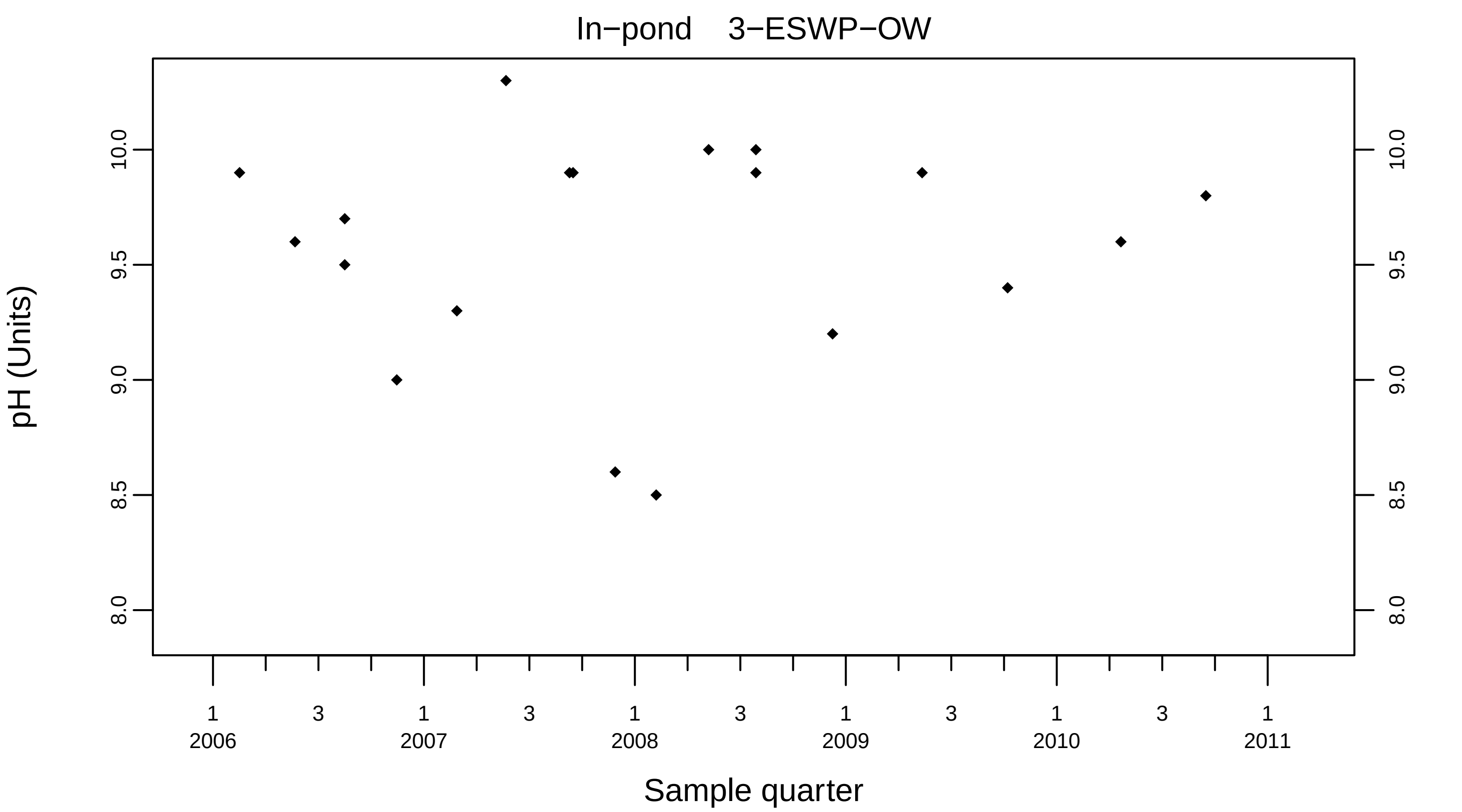

Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−01
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

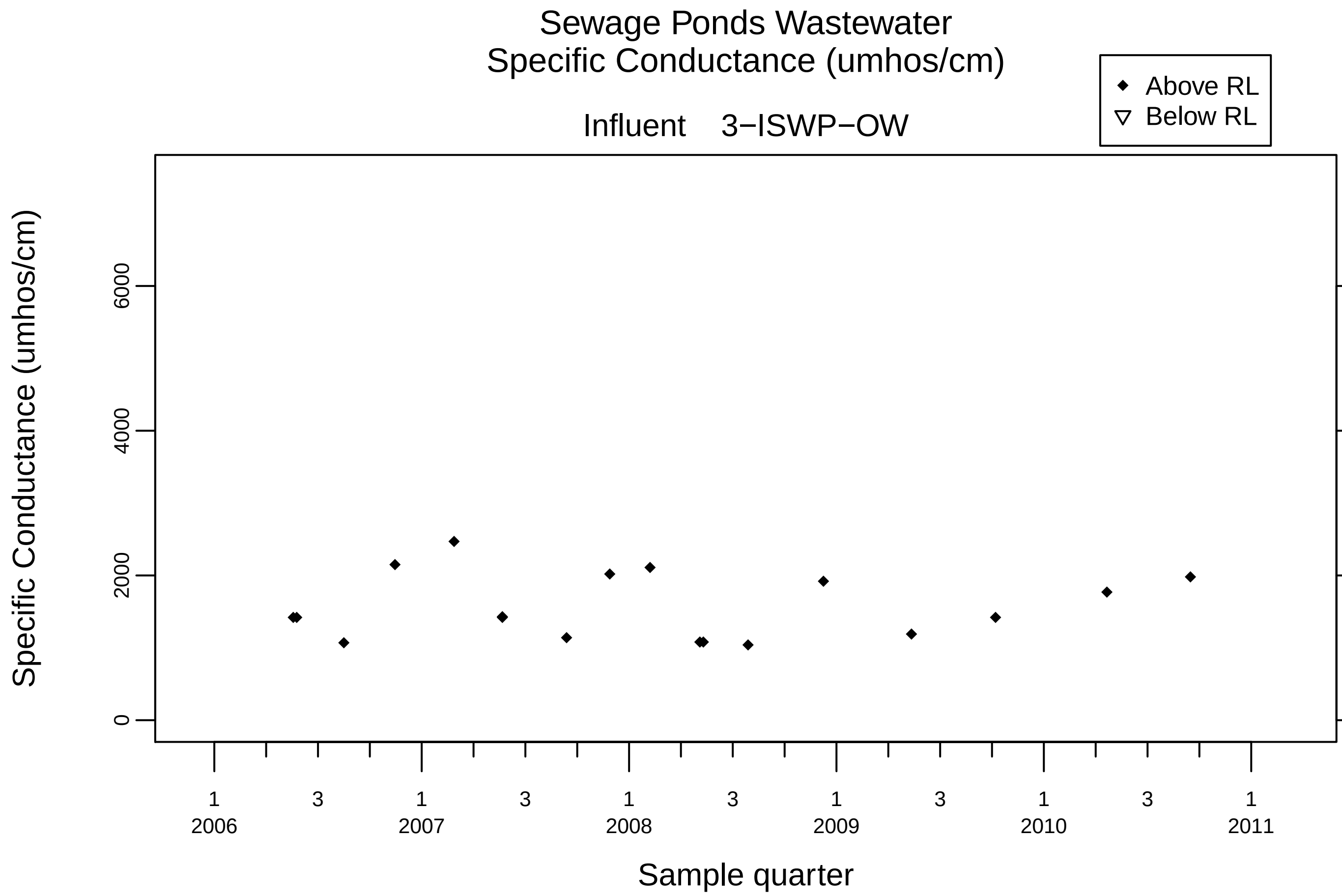

Downgradient Monitor Well W−26R−05
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

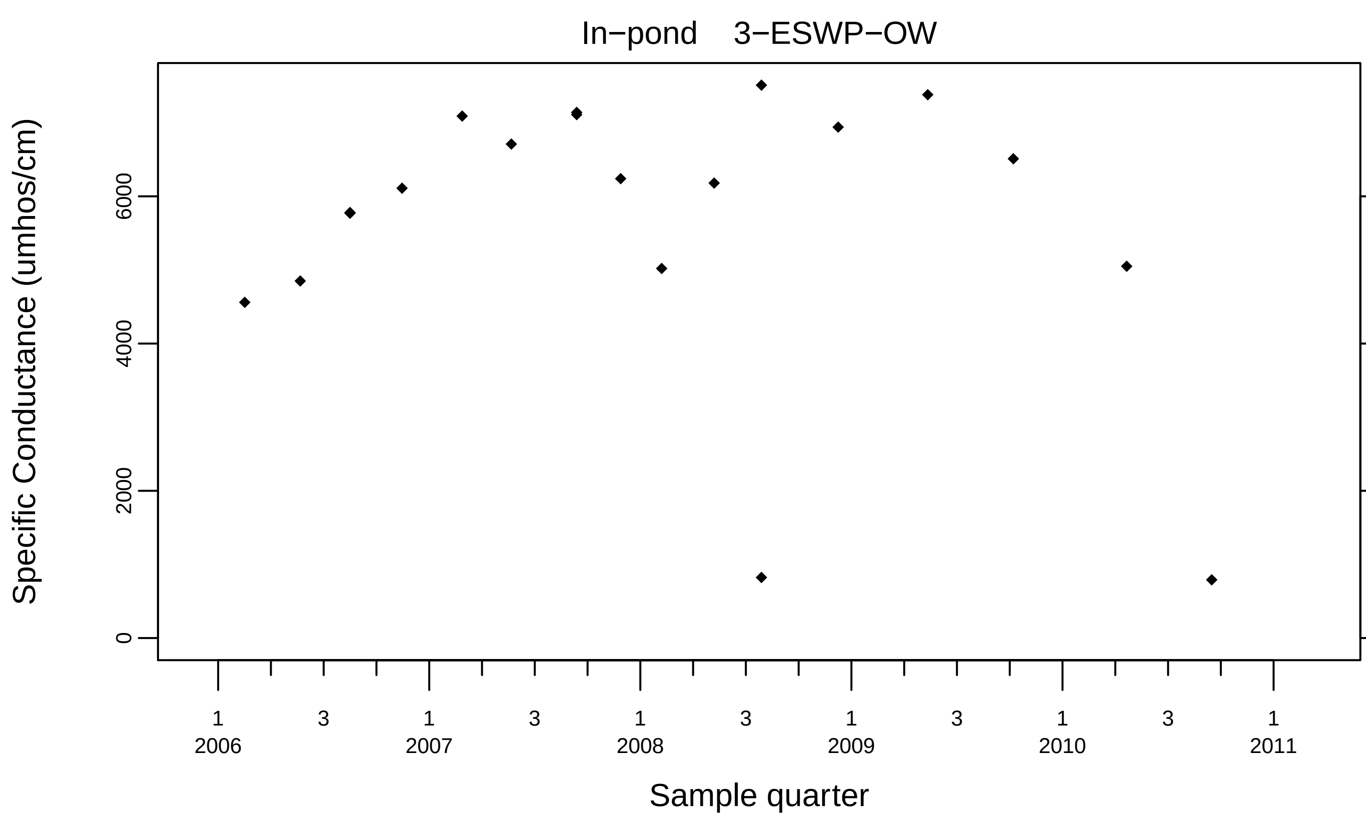

Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)
Above RL
Below RL
Downgradient Monitor Well W−26R−11
Total Phosphorus (as PO4) (mg/L)
0.0
0.2
0.4
0.6
0.8
1.0
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

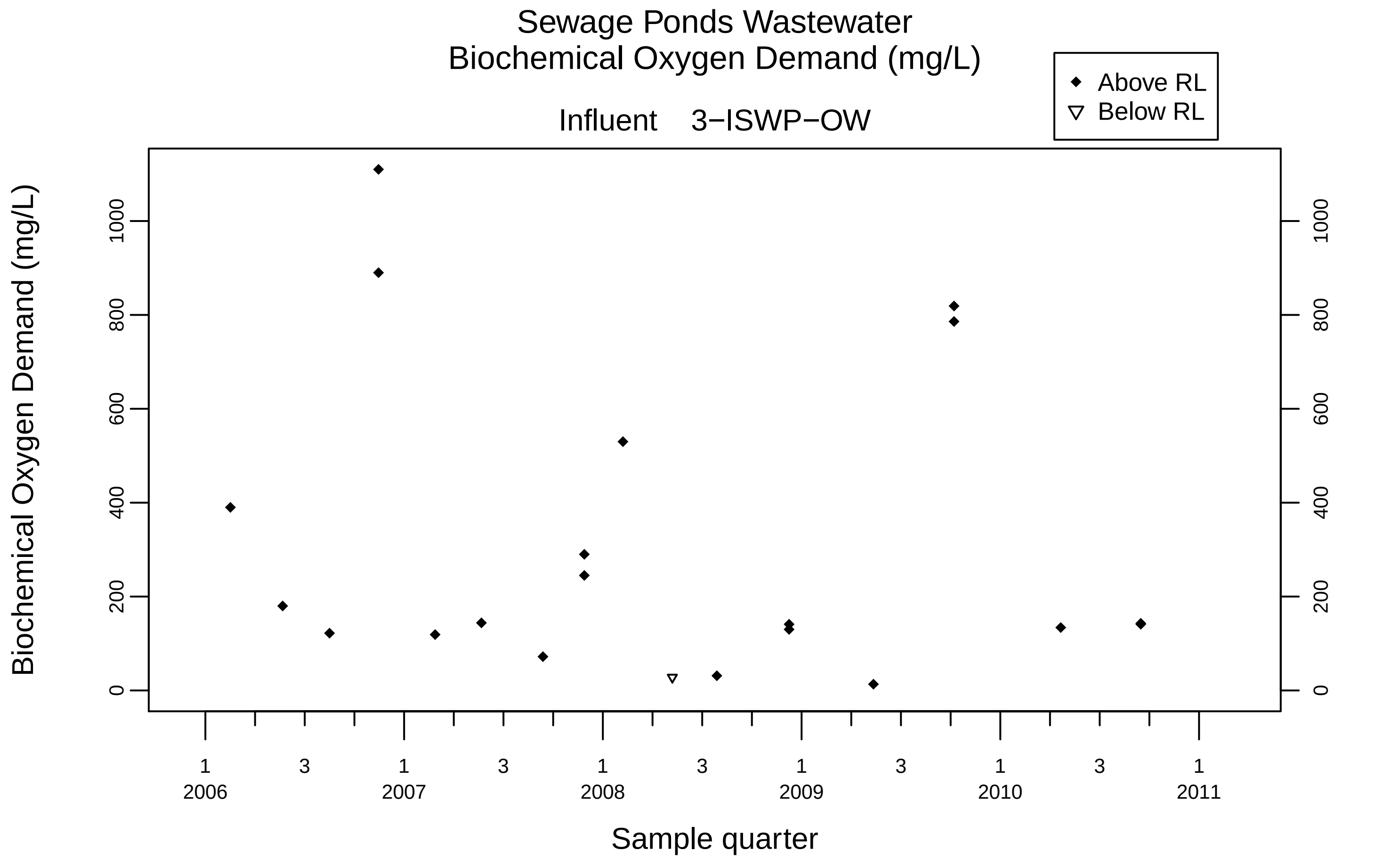
Sewage Ponds Wastewater
pH (Units)

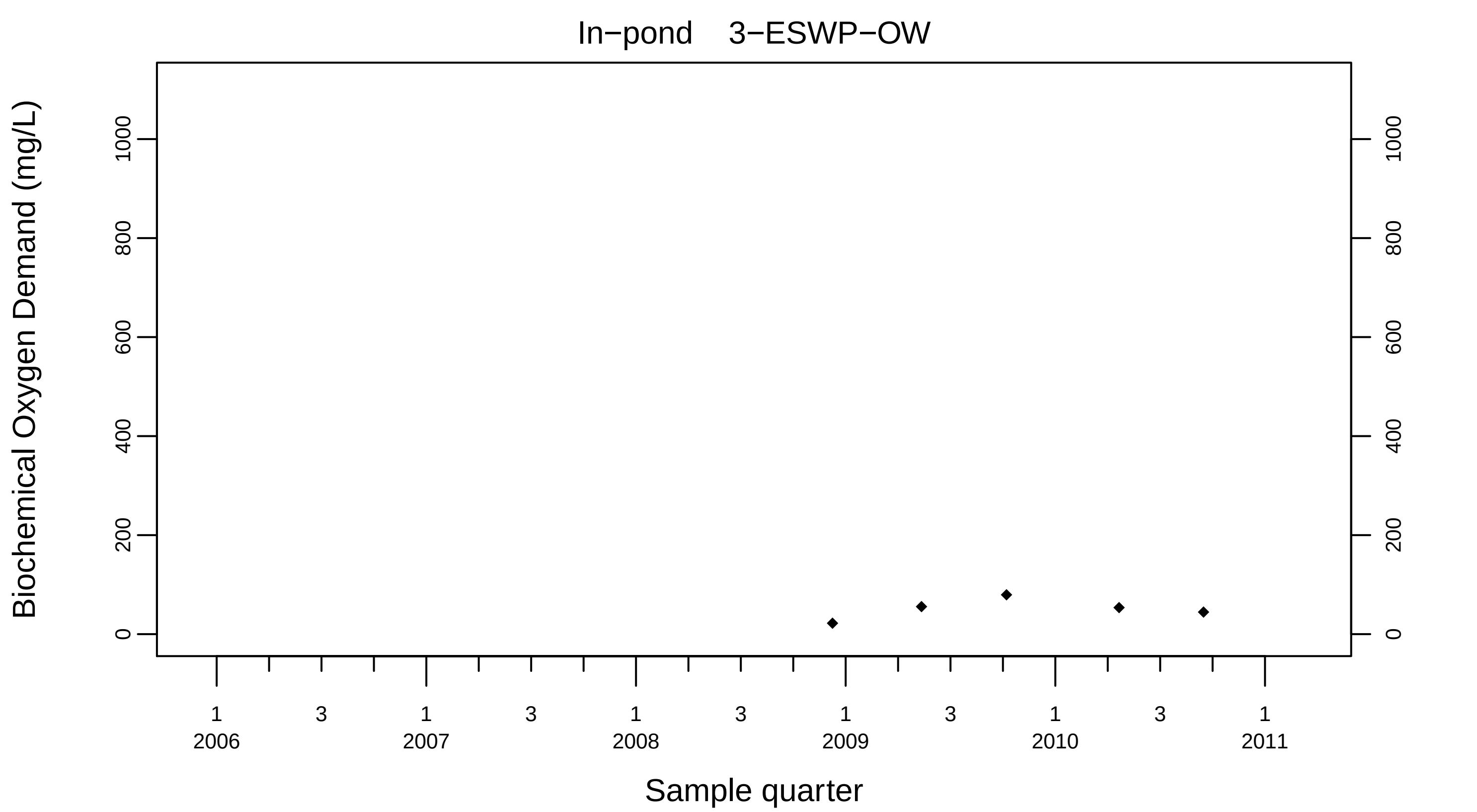


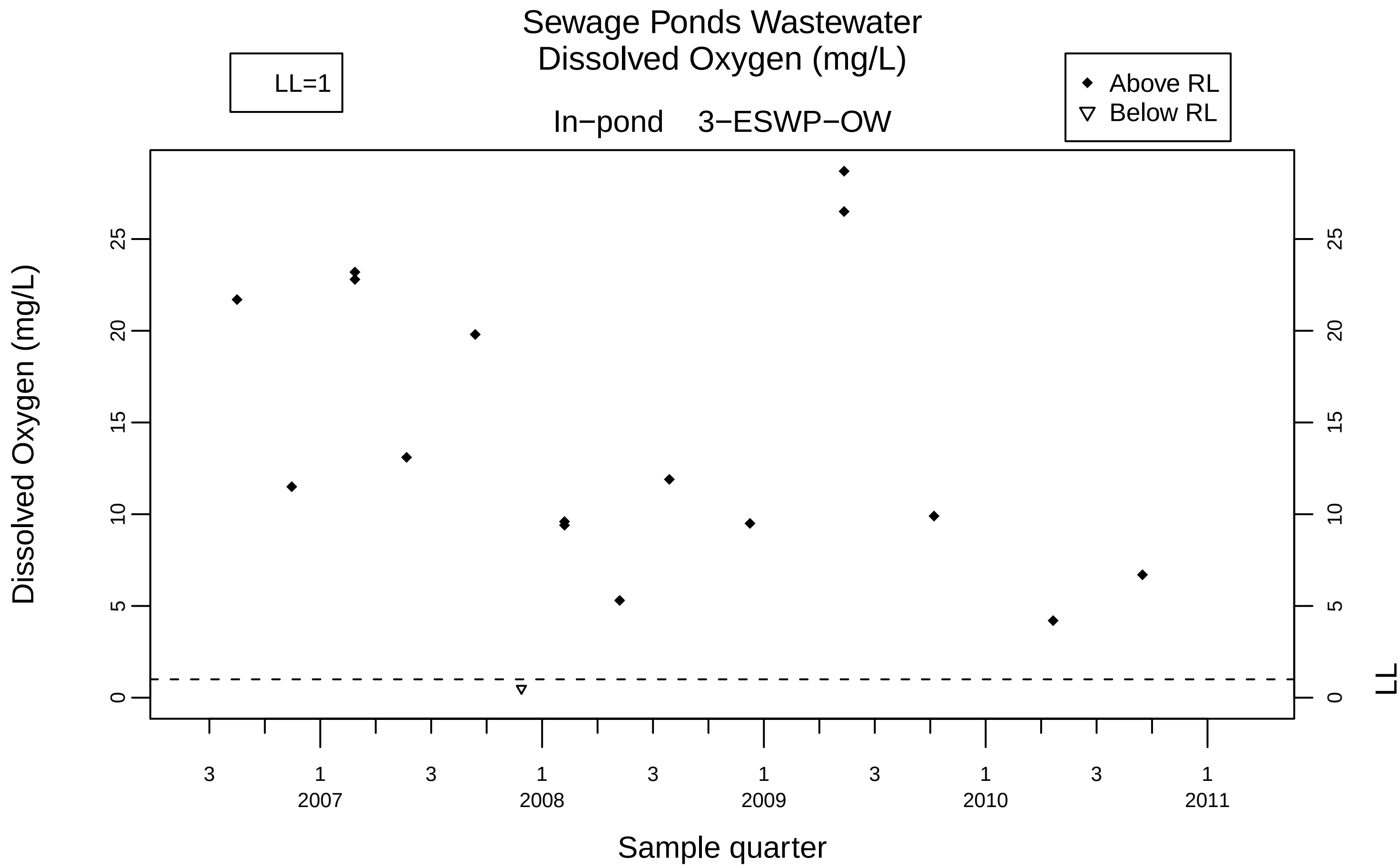


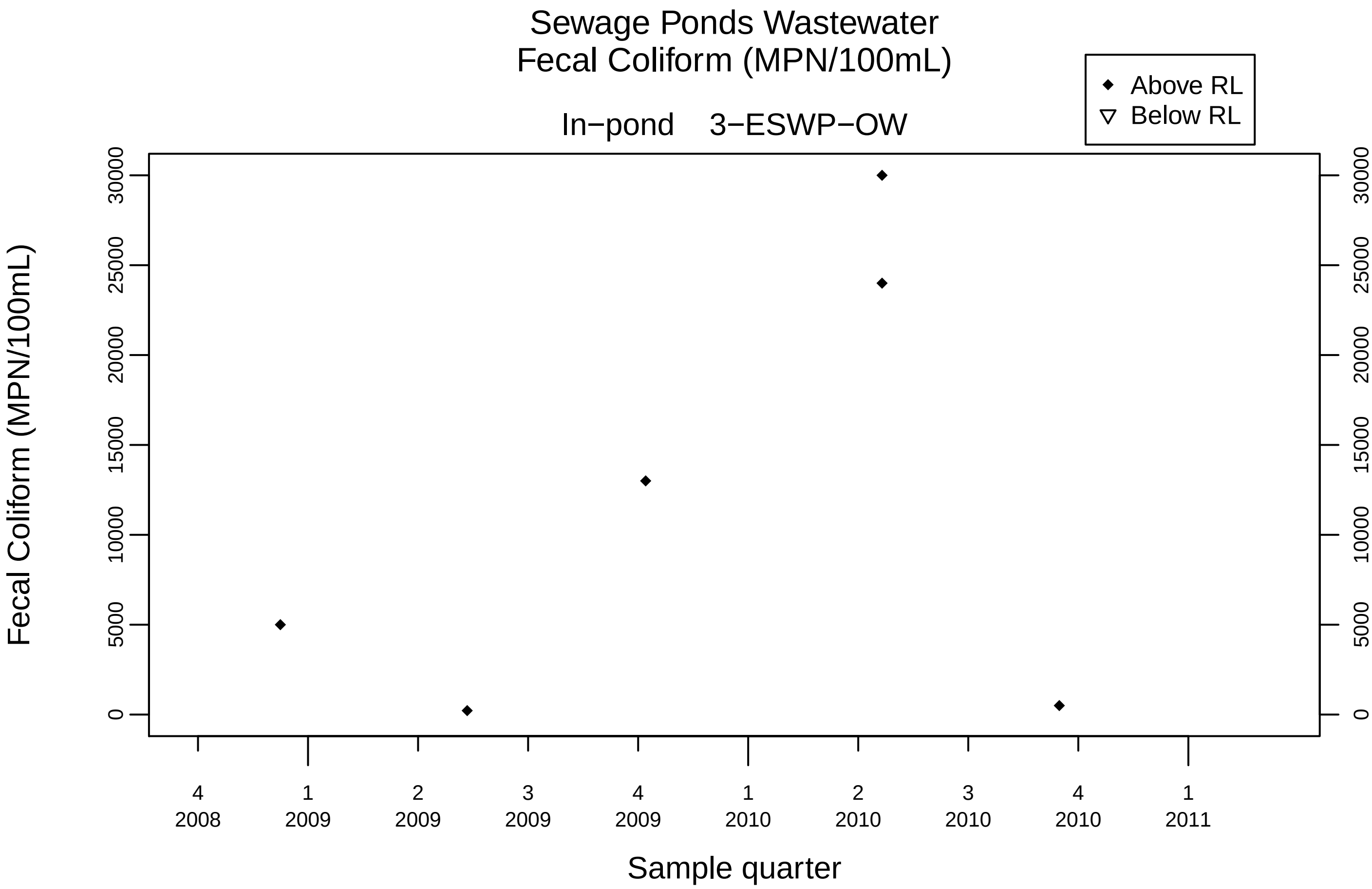

Sewage Ponds Wastewater
Specific Conductance (umhos/cm)
Above RL
Below RL
Influent 3−ISWP−OW
Specific Conductance (umhos/cm)
0
2000
4000
6000
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
Sample quarter

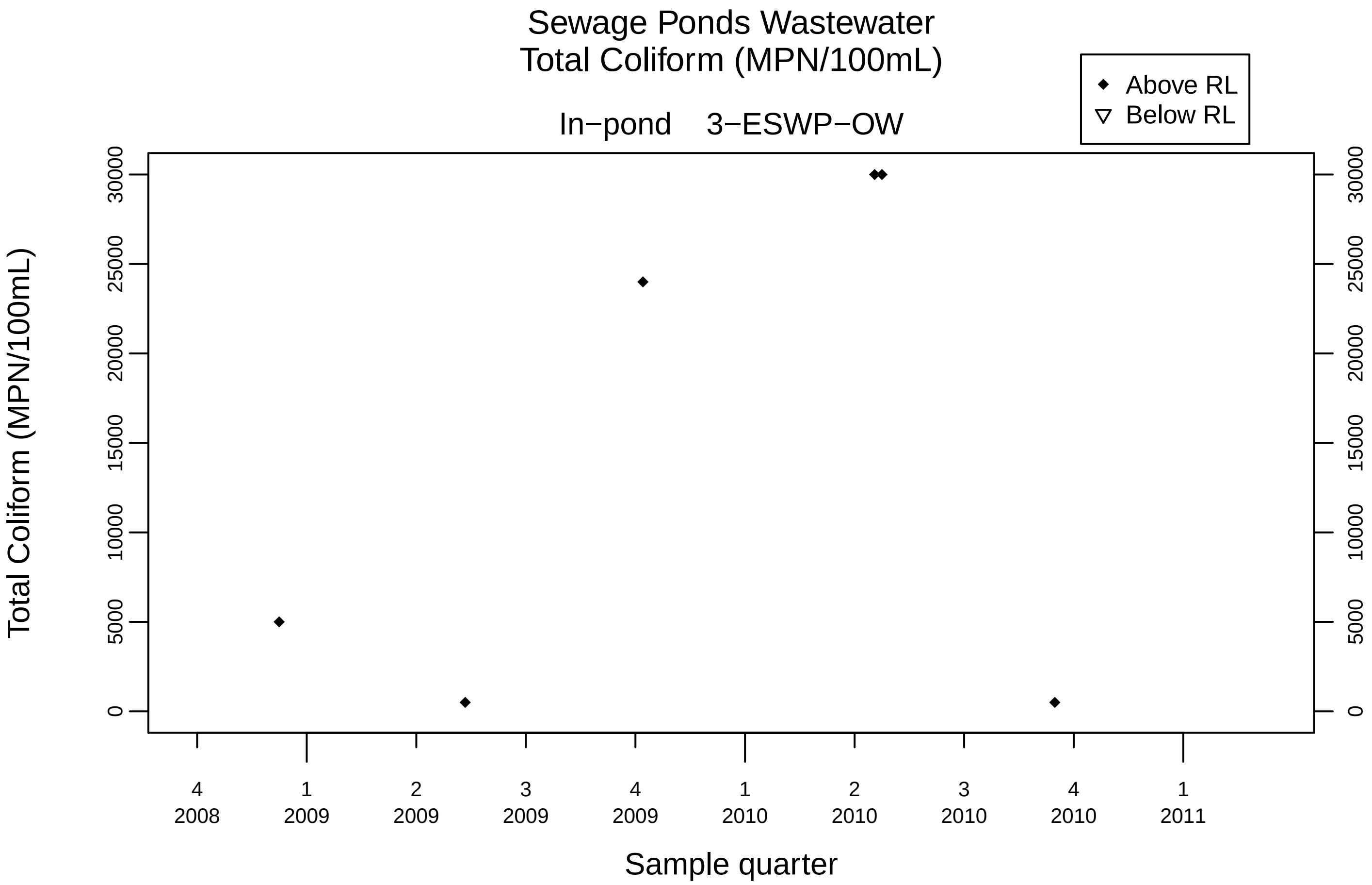

In−pond 3−ESWP−OW
Specific Conductance (umhos/cm)
0
2000
4000
6000
1 2006
3
1 2007
3
1 2008
3
1 2009
3
1 2010
3
1 2011
Sample quarter

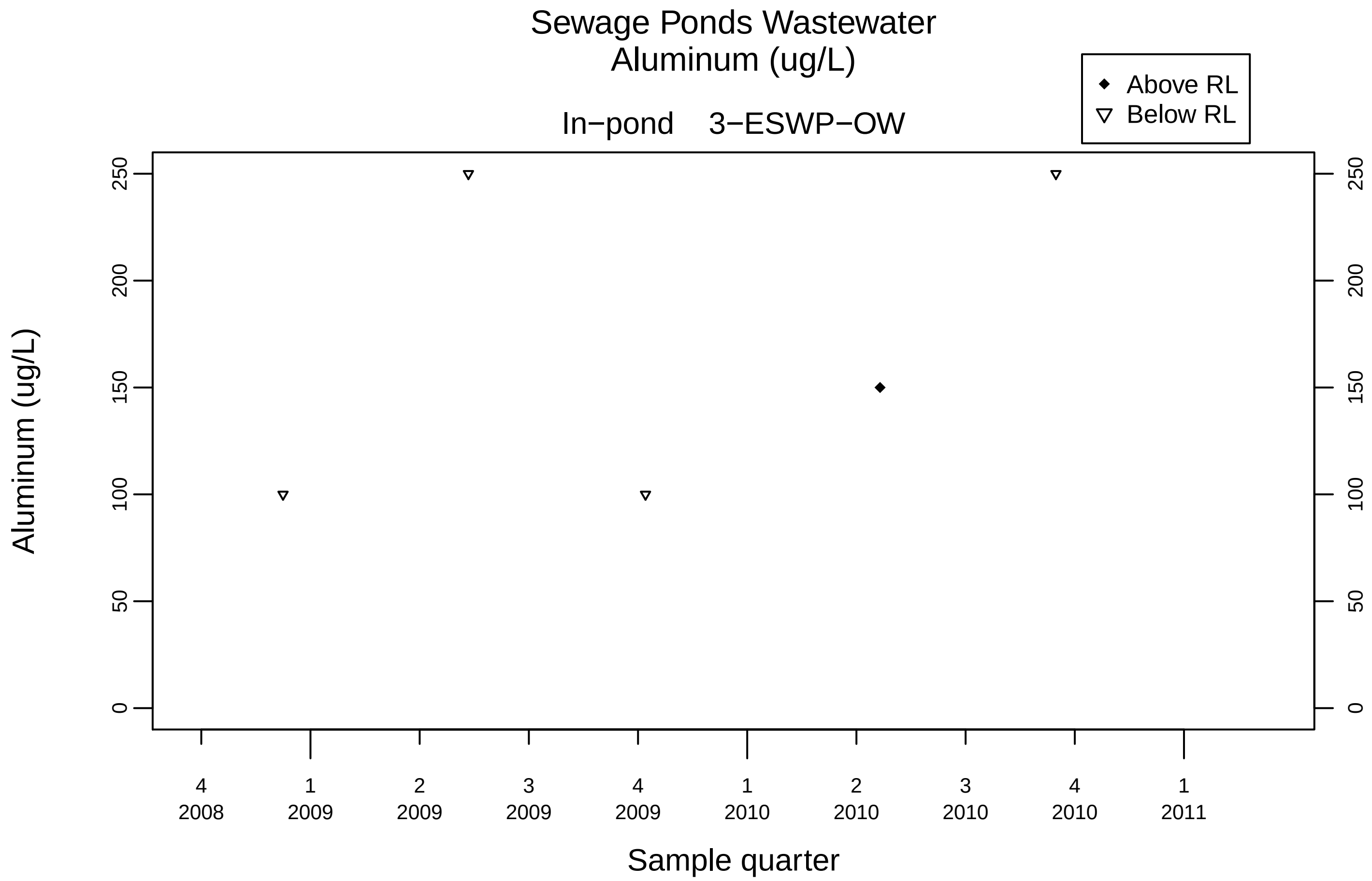

Sewage Ponds Wastewater
Biochemical Oxygen Demand (mg/L)
Above RL
Below RL
Influent 3−ISWP−OW
Biochemical Oxygen Demand (mg/L)
0
200
400
600
800
1000
1
3
2006
2007
2008
2009
2010
2011
Sample quarter

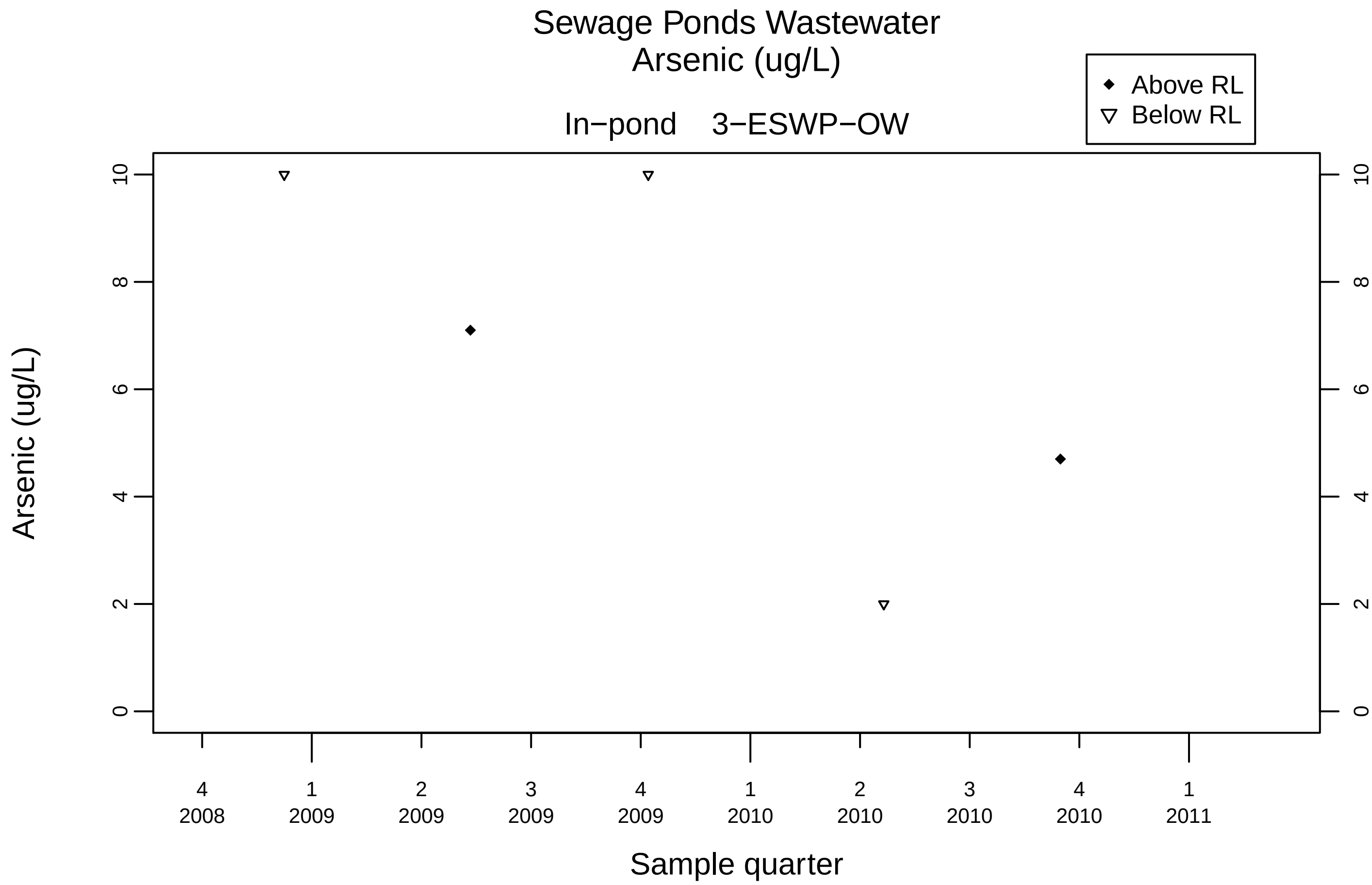

In−pond 3−ESWP−OW
Biochemical Oxygen Demand (mg/L)
0
200
400
600
800
1000
1
3
2006
2007
2008
2009
2010
2011
Sample quarter

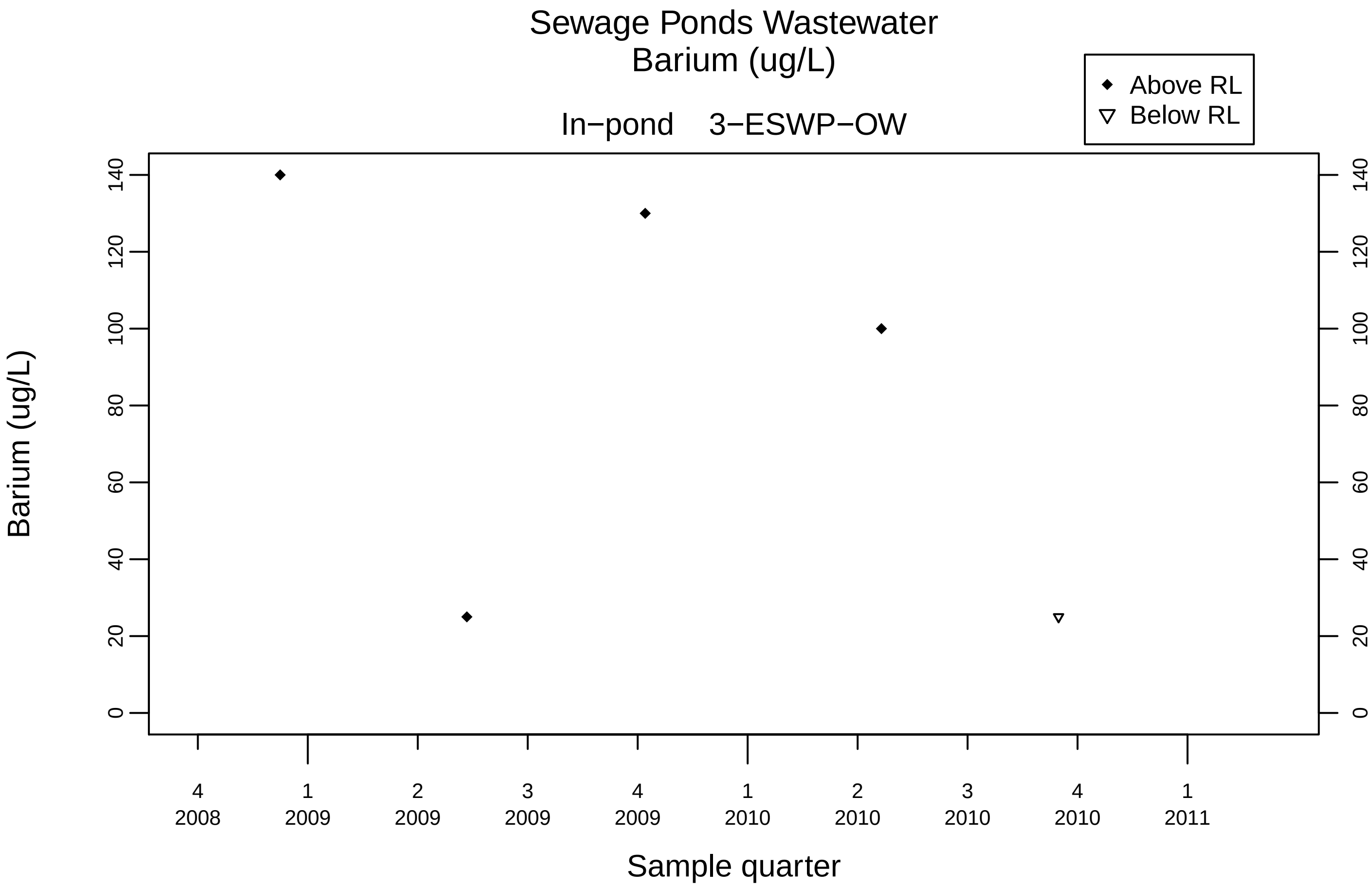

Sewage Ponds Wastewater
Dissolved Oxygen (mg/L)
LL=1
Above RL
Below RL
In−pond 3−ESWP−OW
Dissolved Oxygen (mg/L)
0
5
10
15
20
25
LL
3
1
2007
2008
2009
2010
2011
Sample quarter

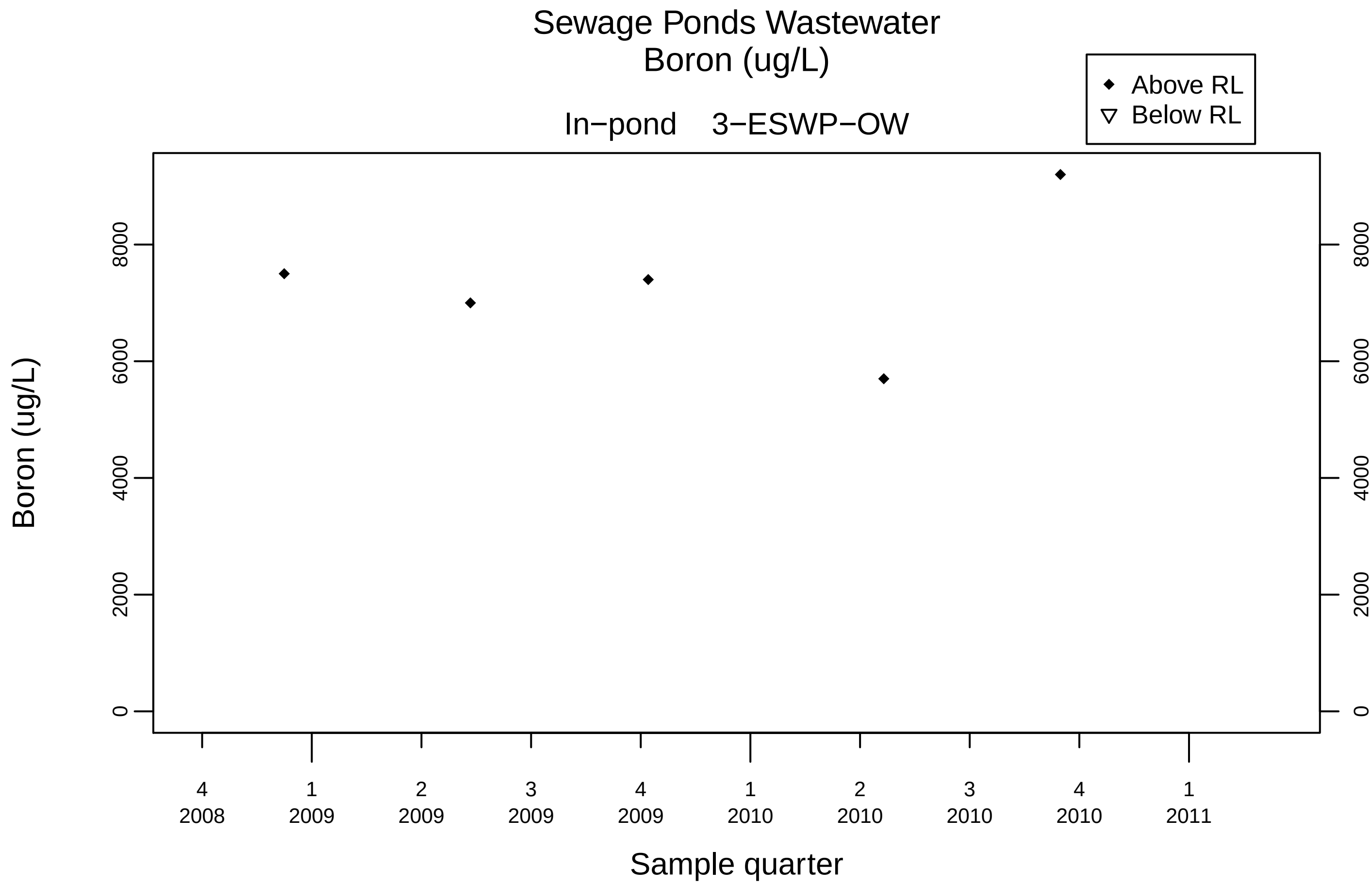

Sewage Ponds Wastewater
Fecal Coliform (MPN/100mL)
In−pond 3−ESWP−OW
Above RL
Below RL
Fecal Coliform (MPN/100mL)
0
5000
10000
15000
20000
25000
30000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

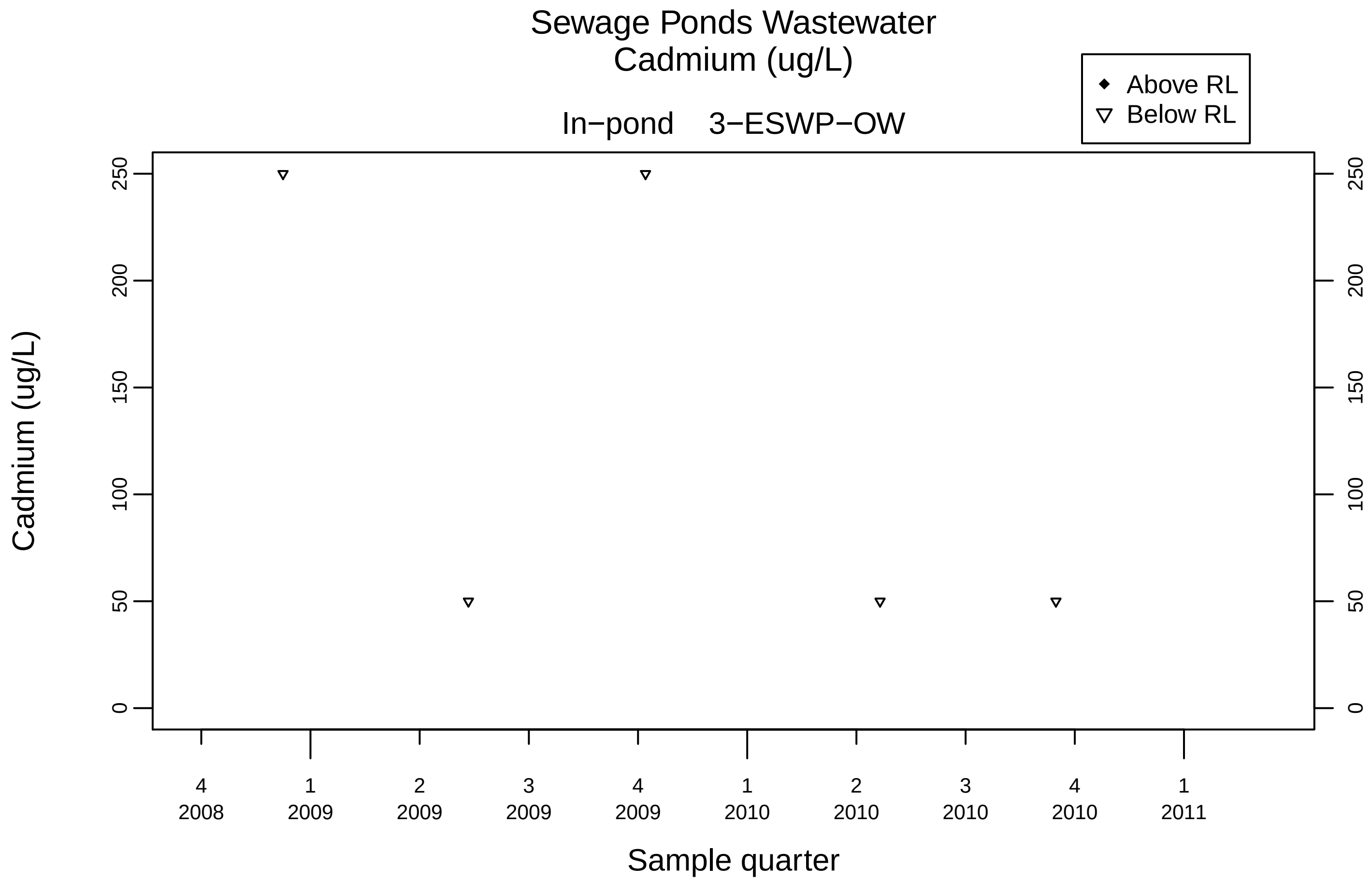

Sewage Ponds Wastewater
Total Coliform (MPN/100mL)
In−pond 3−ESWP−OW
Above RL
Below RL
Total Coliform (MPN/100mL)
0
5000
10000
15000
20000
25000
30000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

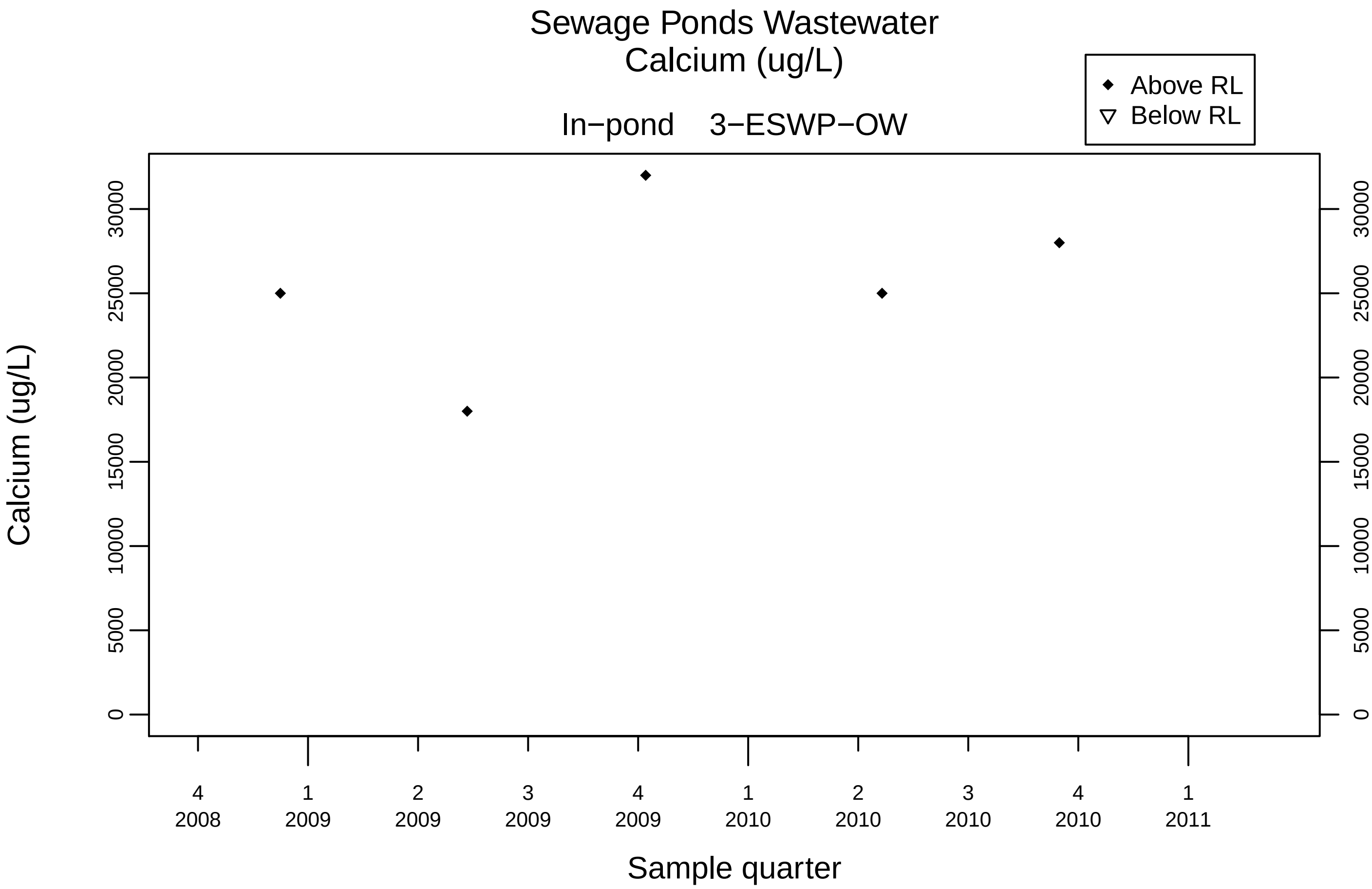

Sewage Ponds Wastewater
Aluminum (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Aluminum (ug/L)
0
50
100
150
200
250
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

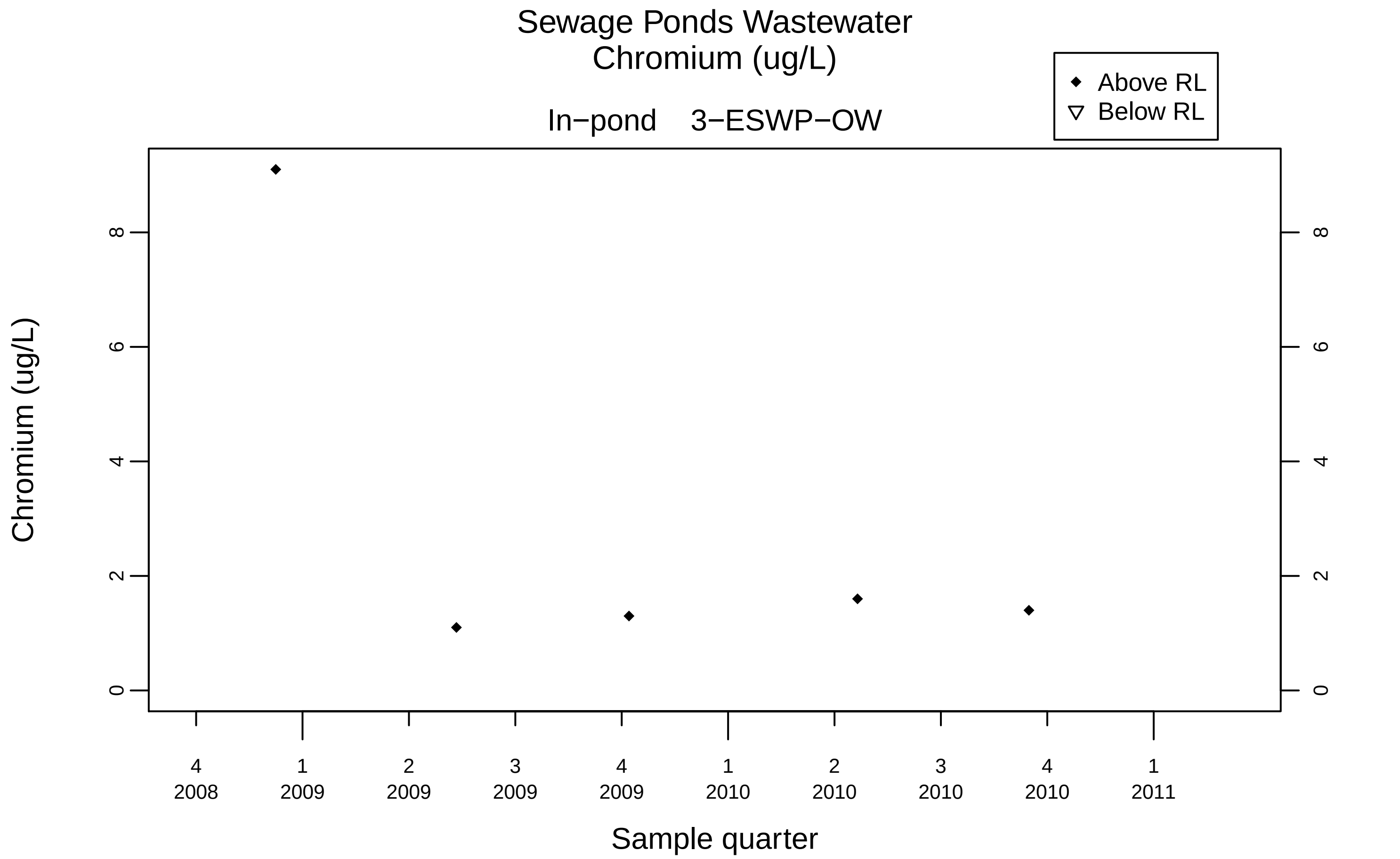

Sewage Ponds Wastewater
Arsenic (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Arsenic (ug/L)
0
2
4
6
8
10
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

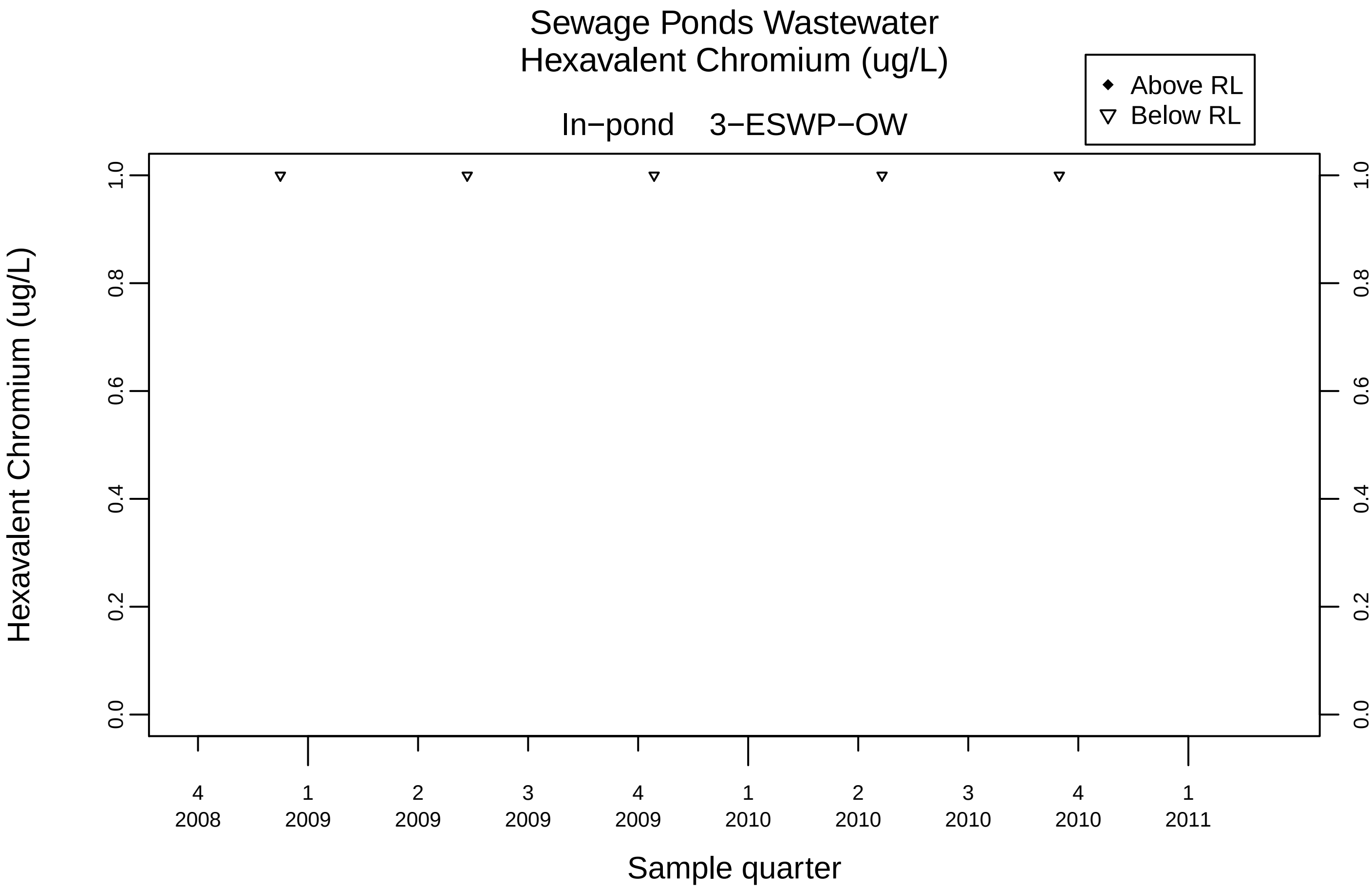

Sewage Ponds Wastewater
Barium (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Barium (ug/L)
0
20
40
60
80
100
120
140
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

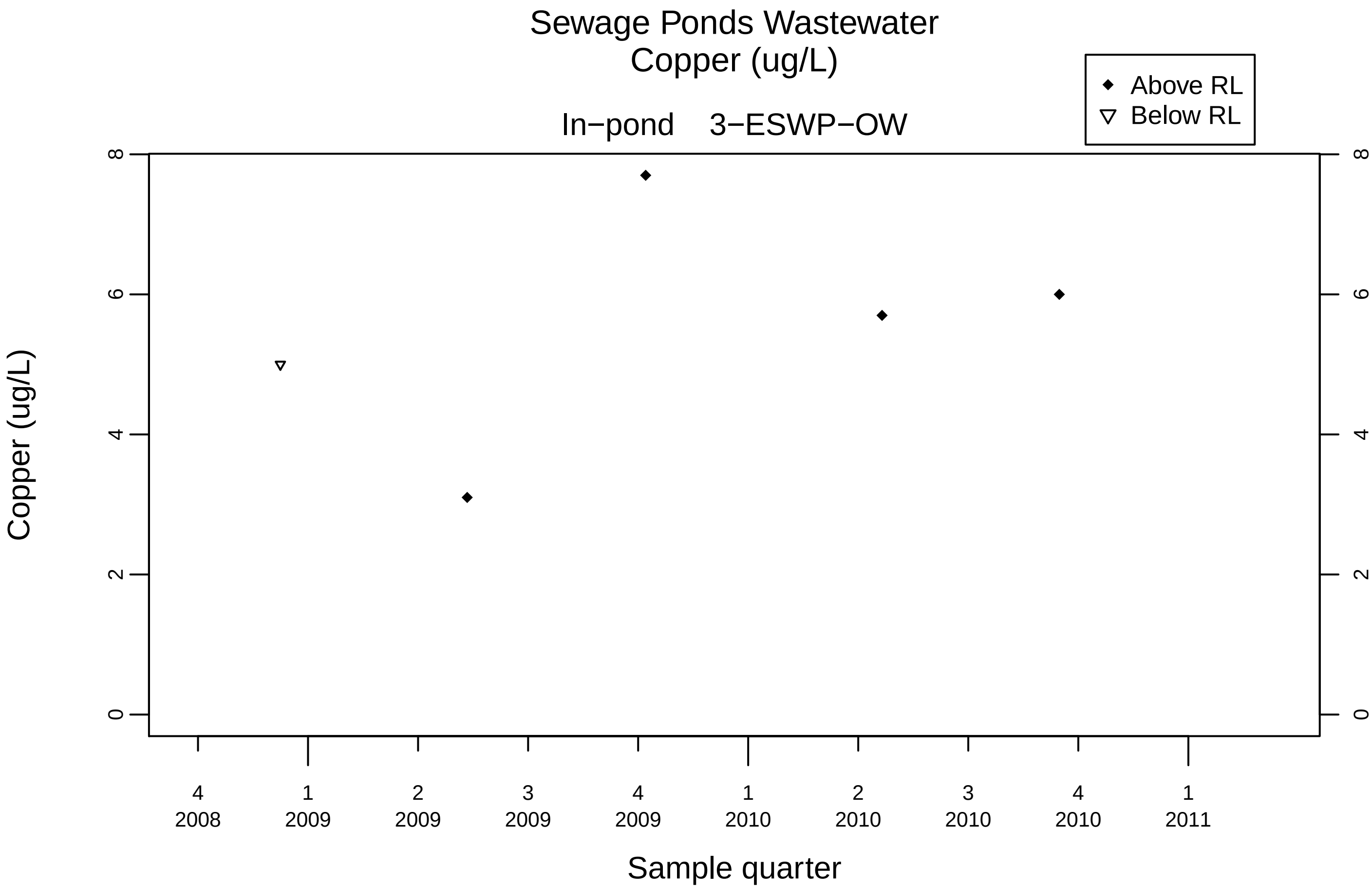

Sewage Ponds Wastewater
Boron (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Boron (ug/L)
0
2000
4000
6000
8000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

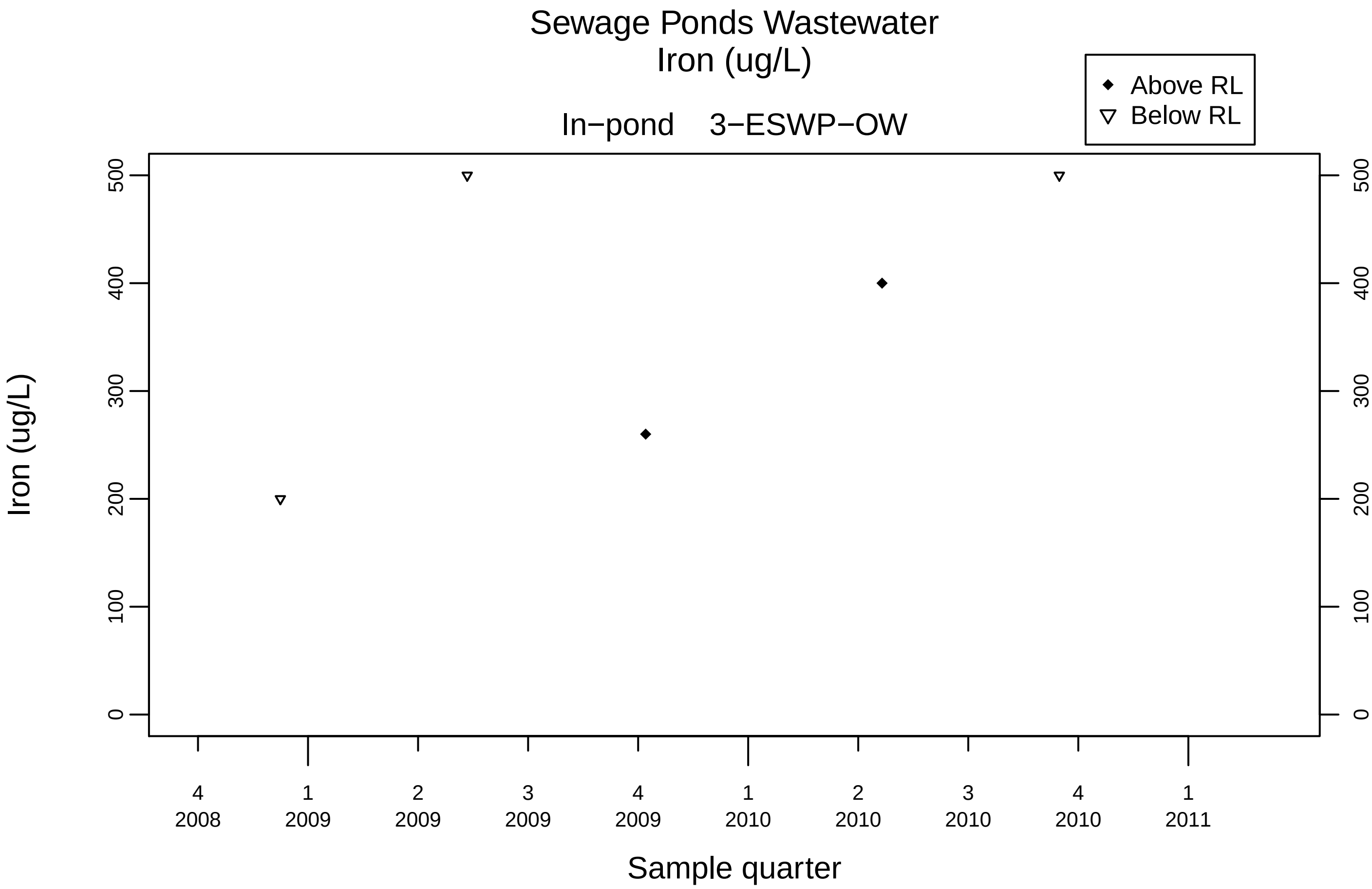

Sewage Ponds Wastewater
Cadmium (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Cadmium (ug/L)
0
50
100
150
200
250
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

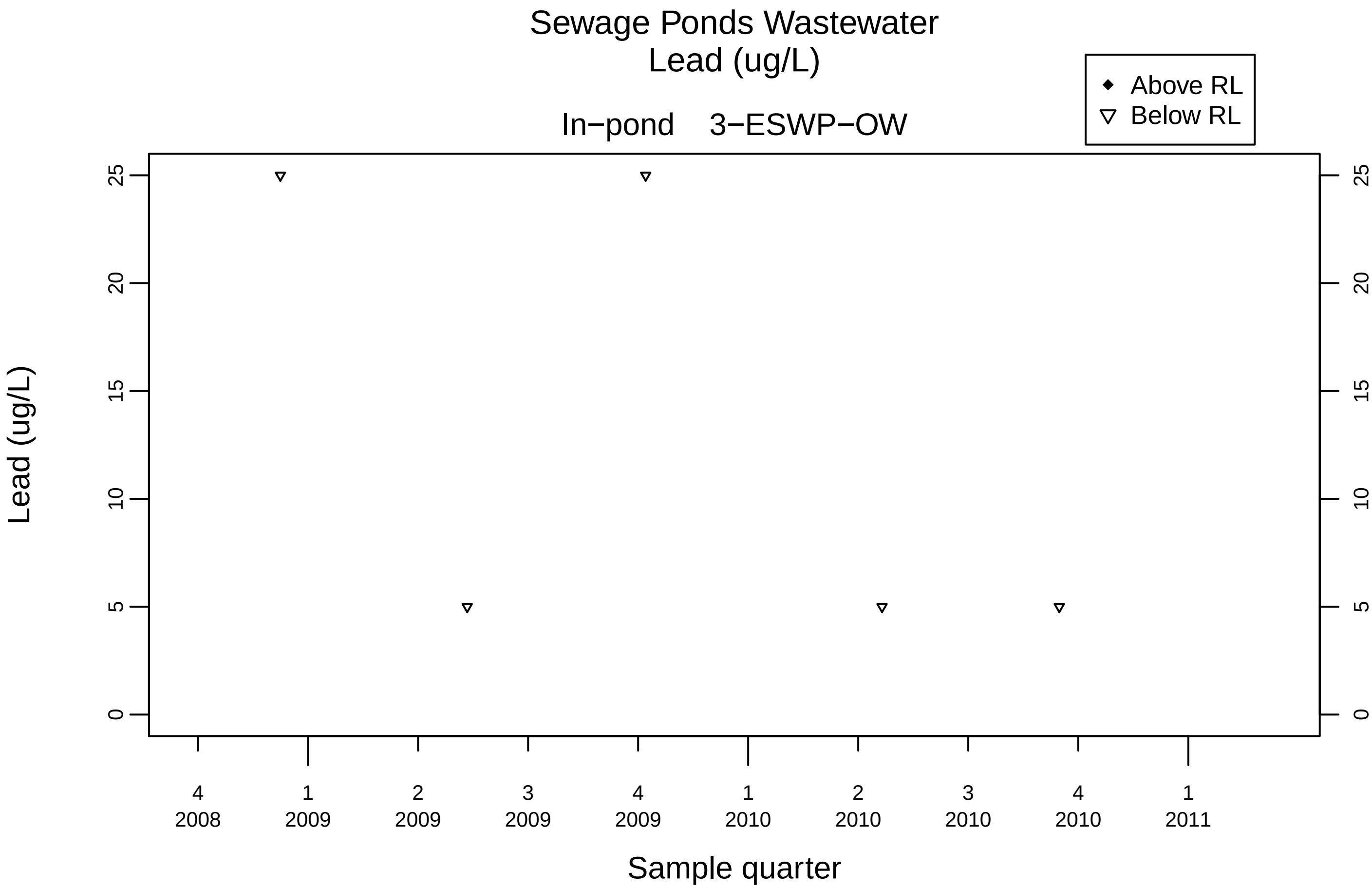

Sewage Ponds Wastewater
Calcium (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Calcium (ug/L)
0
5000
10000
15000
20000
25000
30000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

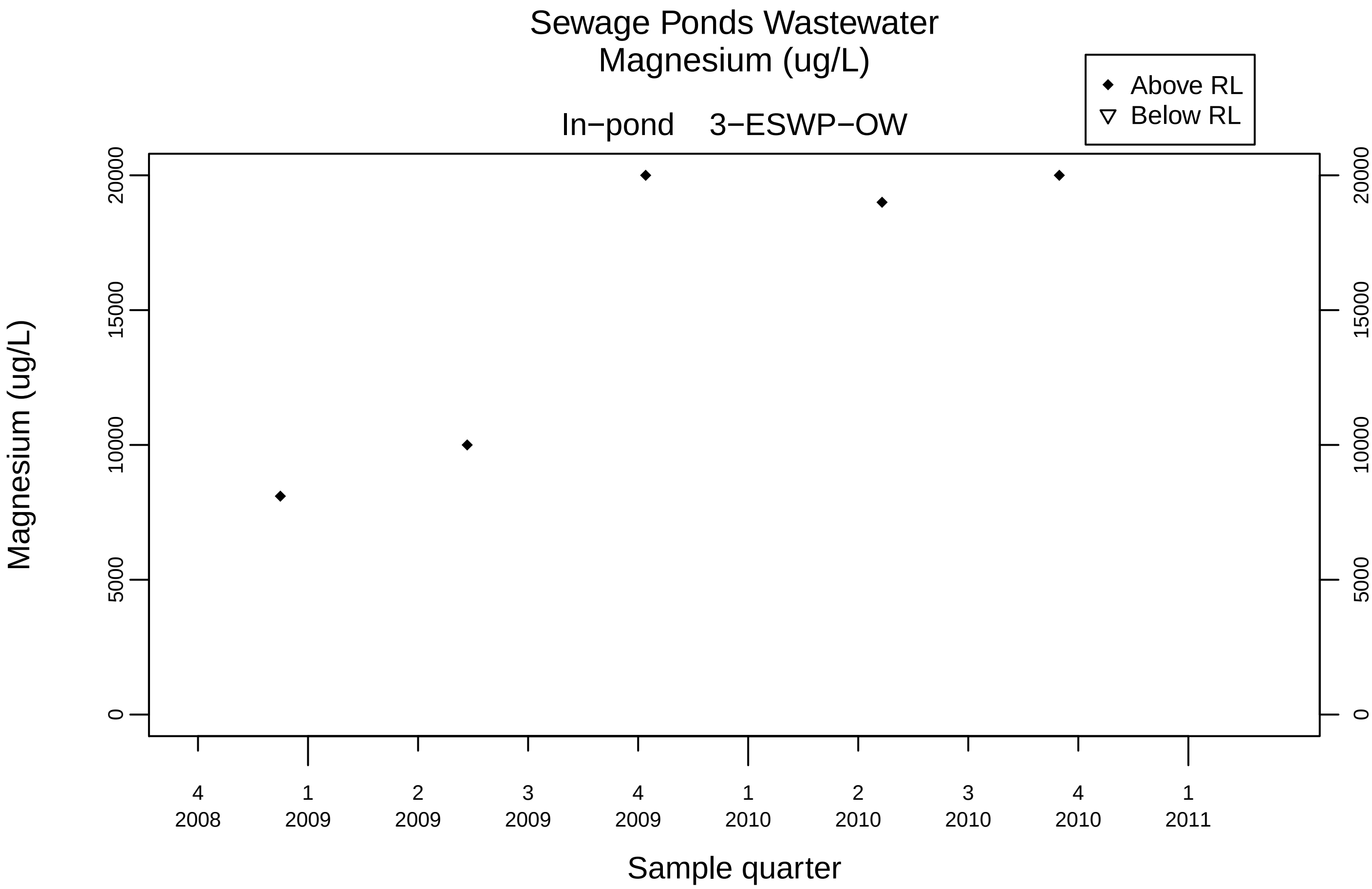

Sewage Ponds Wastewater
Chromium (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Chromium (ug/L)
0
2
4
6
8
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

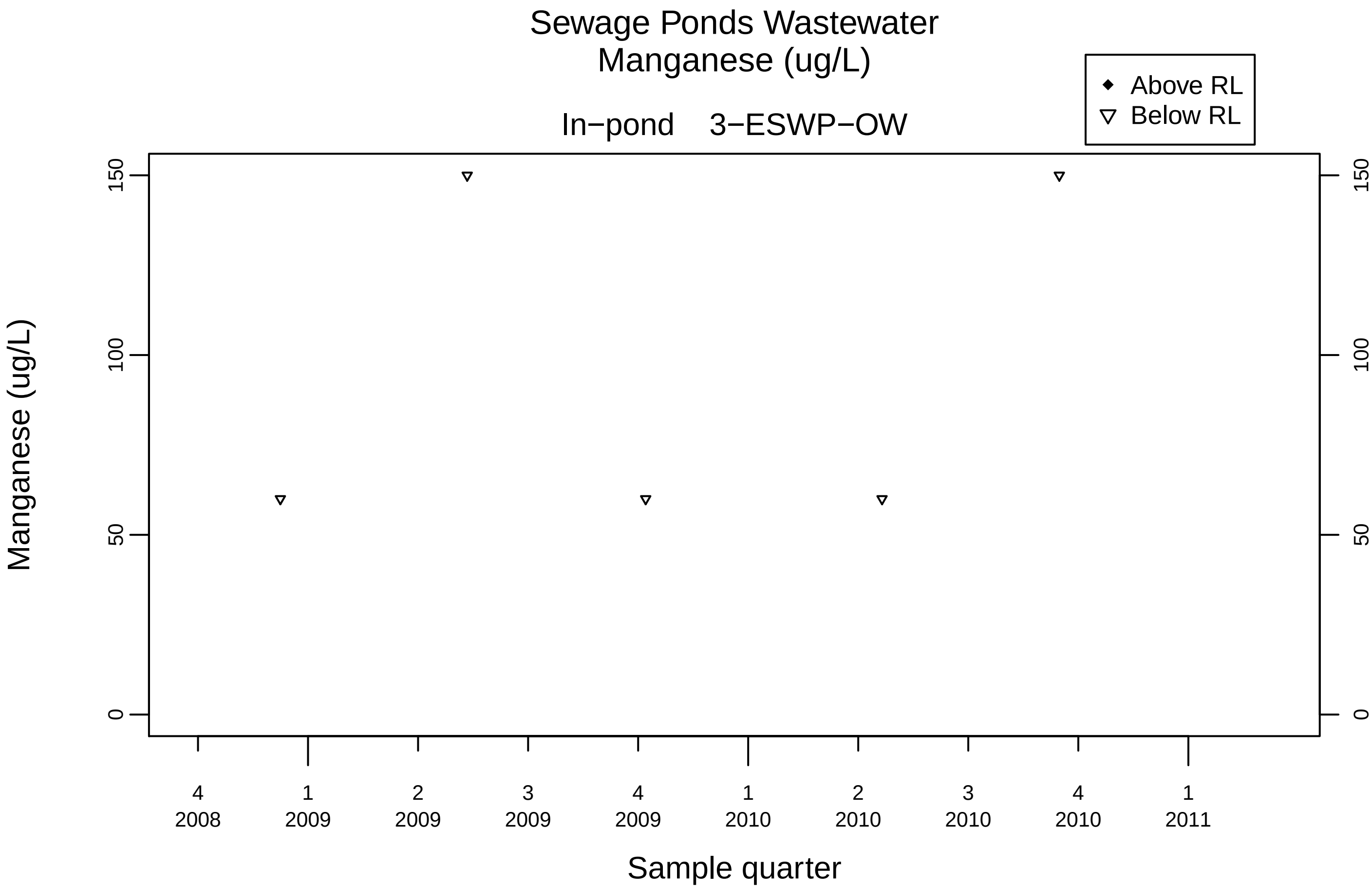

Sewage Ponds Wastewater
Hexavalent Chromium (ug/L)
Above RL
Below RL
In−pond 3−ESWP−OW
Hexavalent Chromium (ug/L)
0.0
0.2
0.4
0.6
0.8
1.0
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

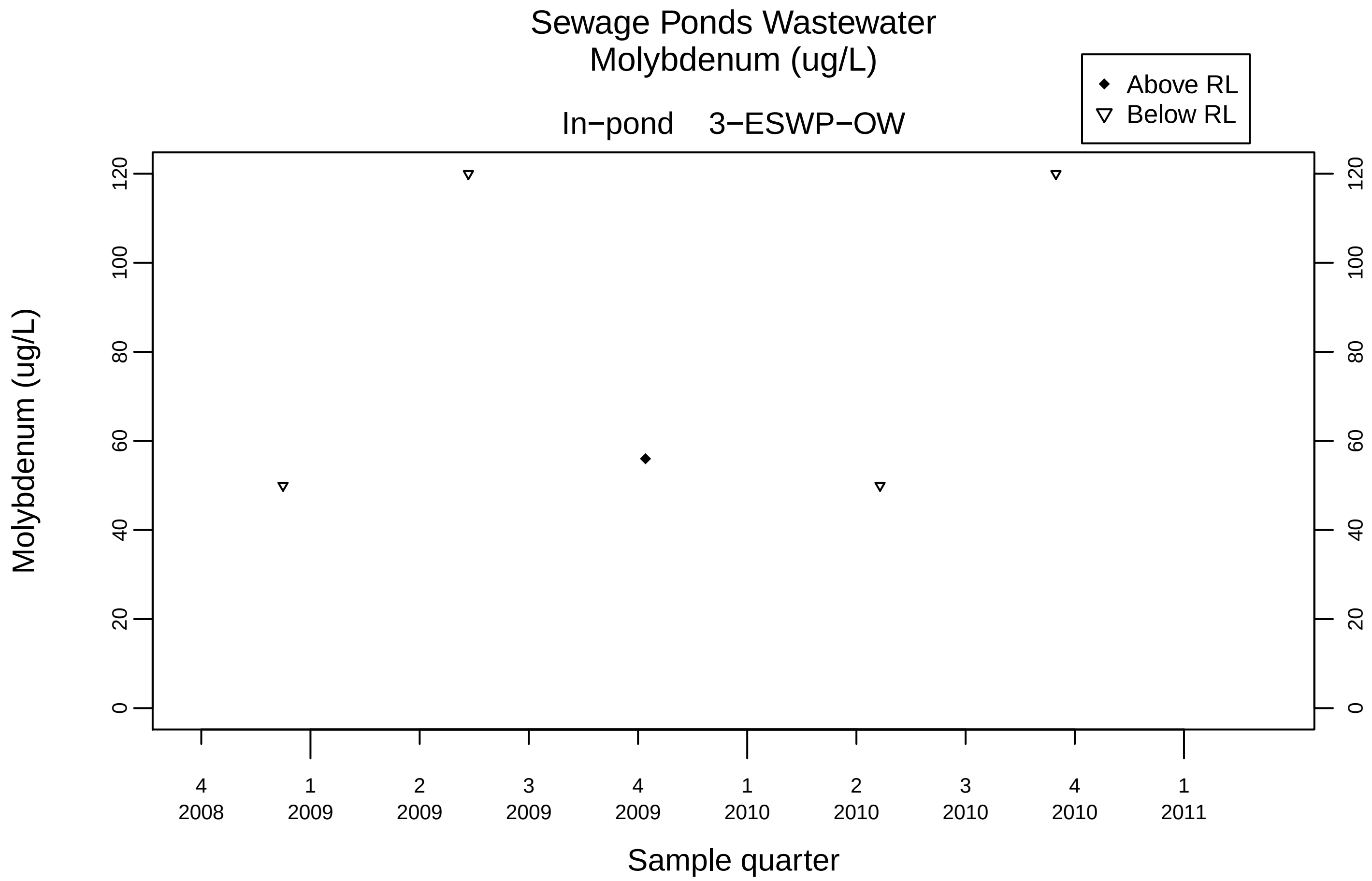

Sewage Ponds Wastewater
Copper (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Copper (ug/L)
0
2
4
6
8
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

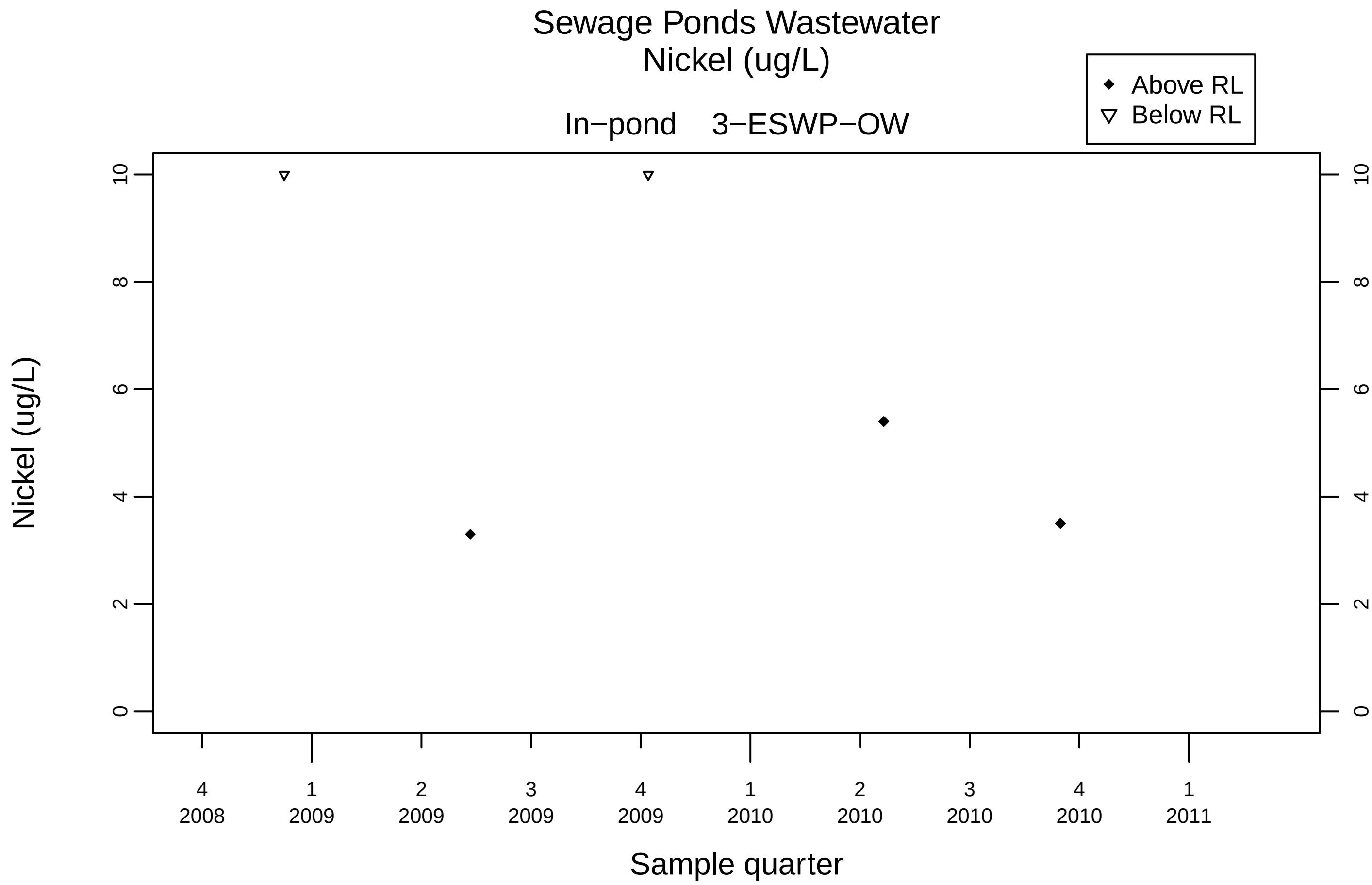

Sewage Ponds Wastewater
Iron (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Iron (ug/L)
0
100
200
300
400
500
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

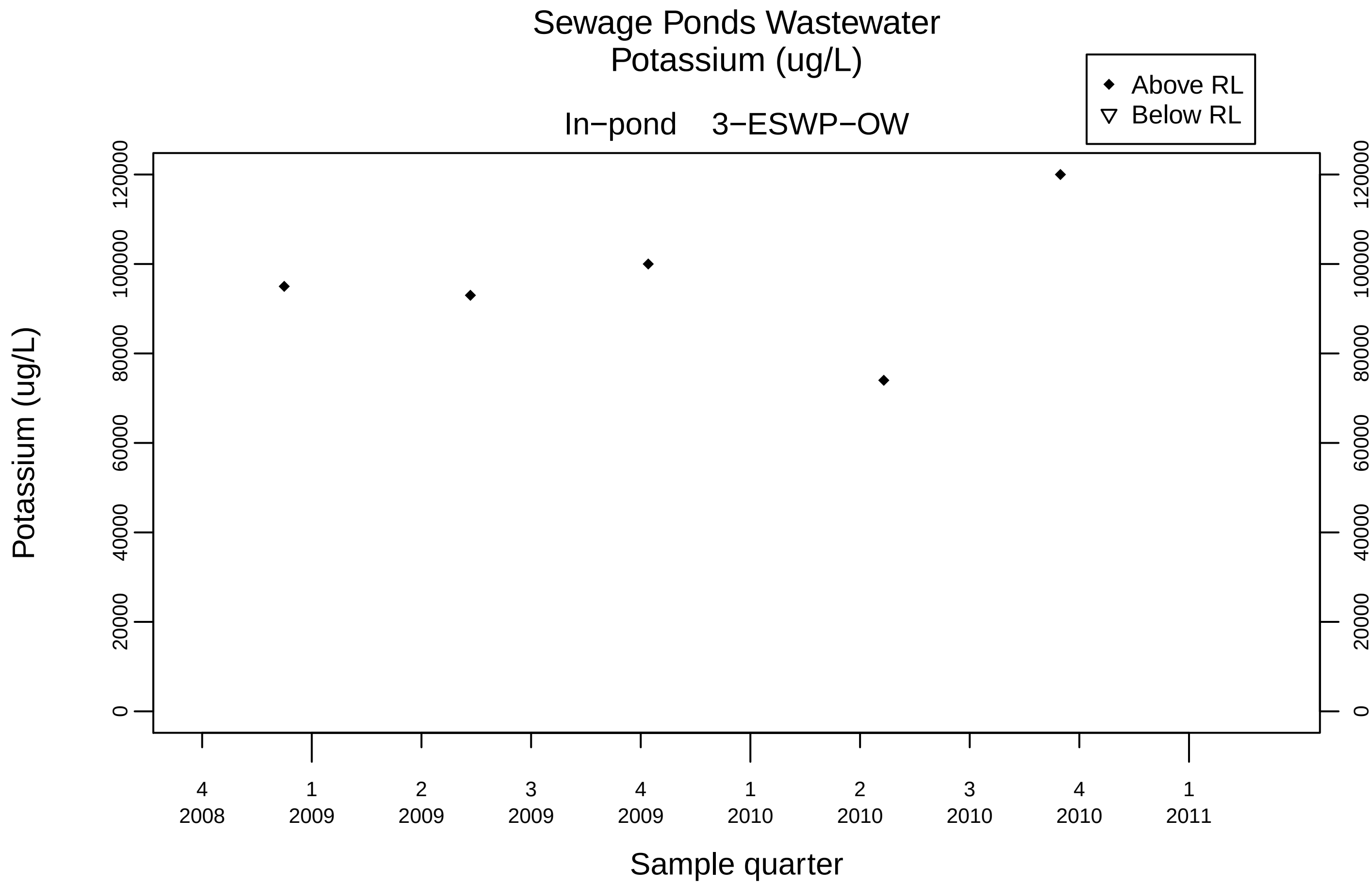

Sewage Ponds Wastewater
Lead (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Lead (ug/L)
0
5
10
15
20
25
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

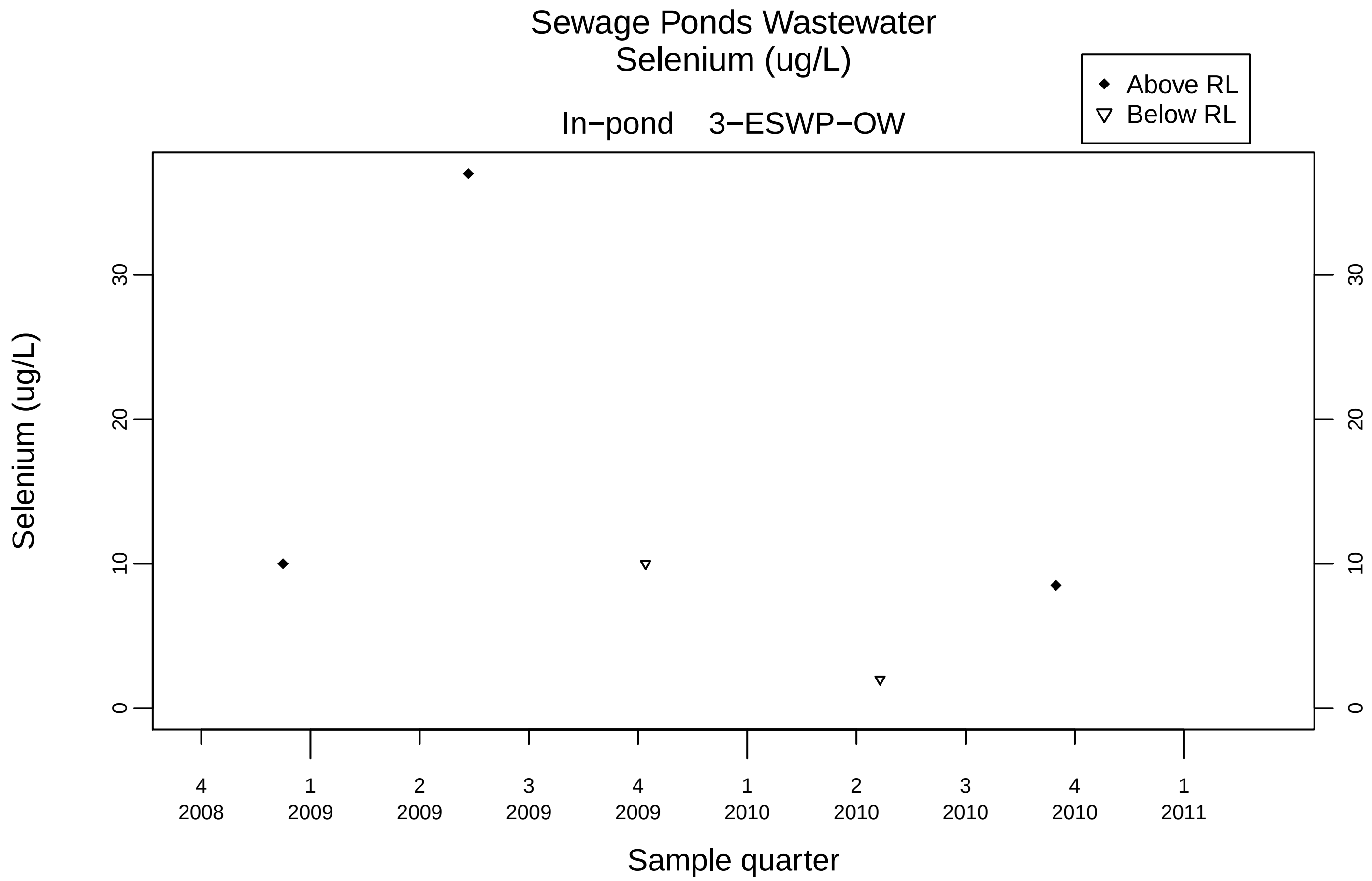

Sewage Ponds Wastewater
Magnesium (ug/L)
Above RL
Below RL
In−pond 3−ESWP−OW
Magnesium (ug/L)
0
5000
10000
15000
20000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

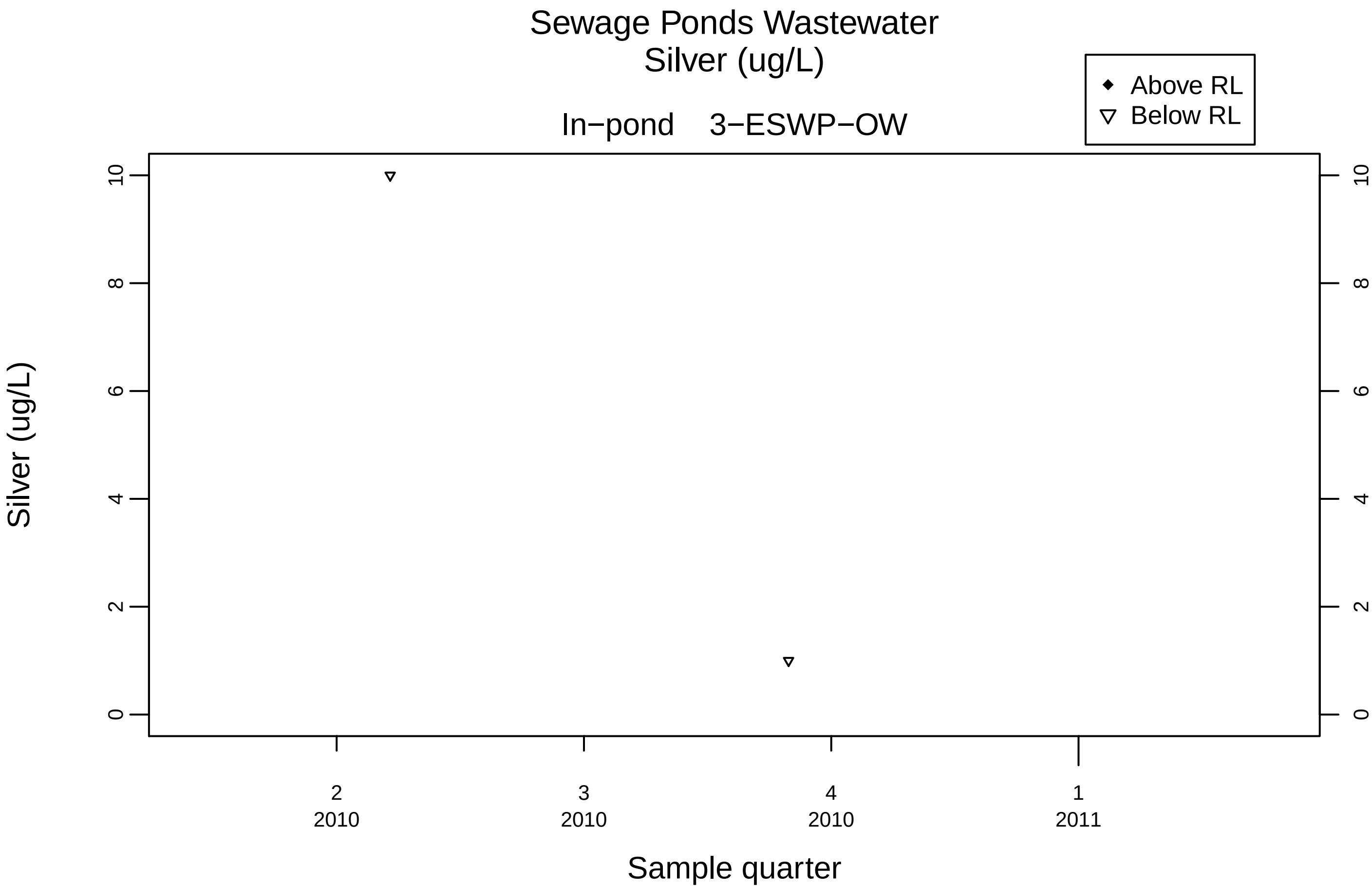

Sewage Ponds Wastewater
Manganese (ug/L)
Above RL
Below RL
In−pond 3−ESWP−OW
Manganese (ug/L)
0
50
100
150
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

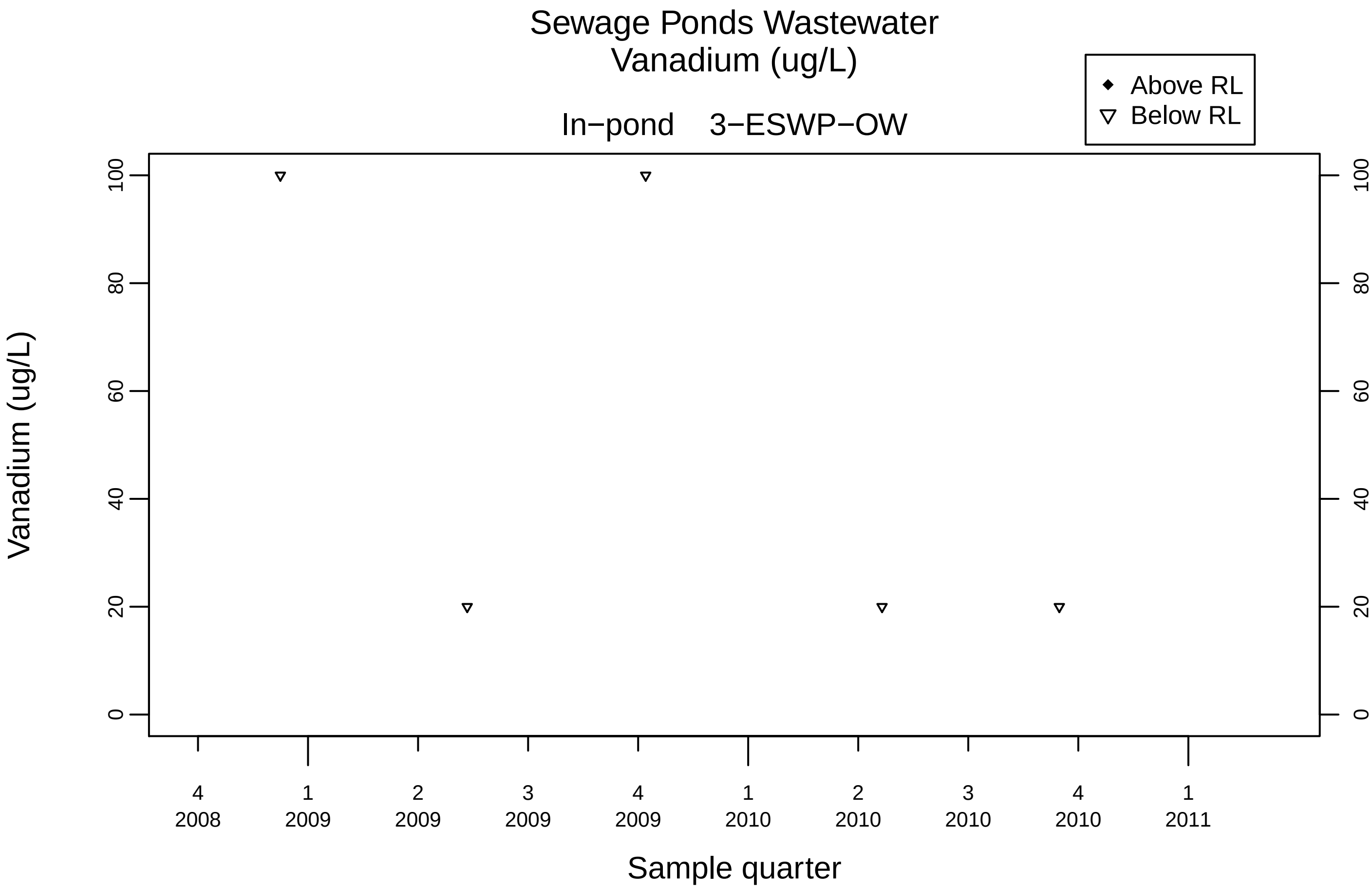

Sewage Ponds Wastewater
Molybdenum (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Molybdenum (ug/L)
0
20
40
60
80
100
120
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

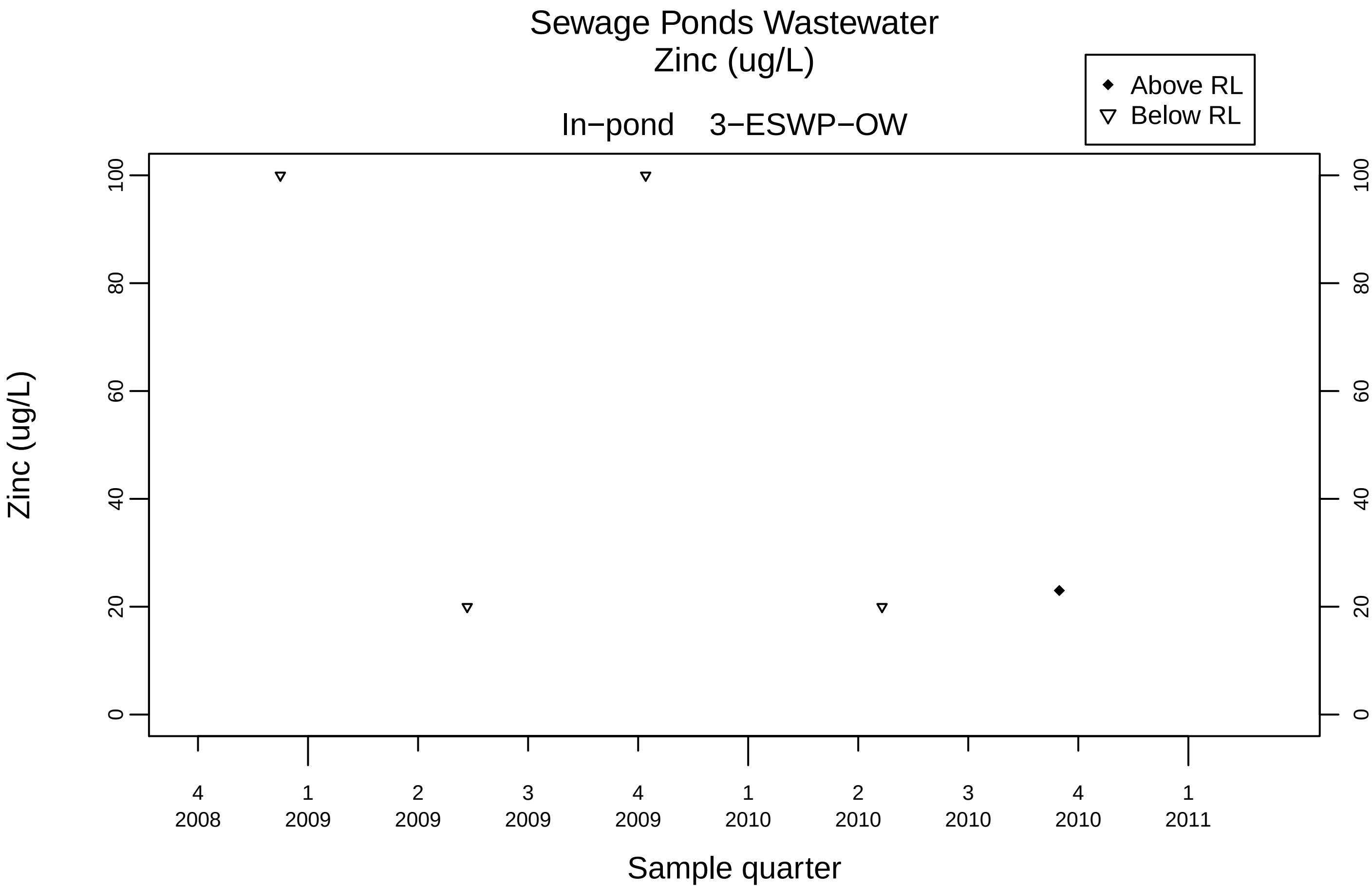

Sewage Ponds Wastewater
Nickel (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Nickel (ug/L)
0
2
4
6
8
10
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter

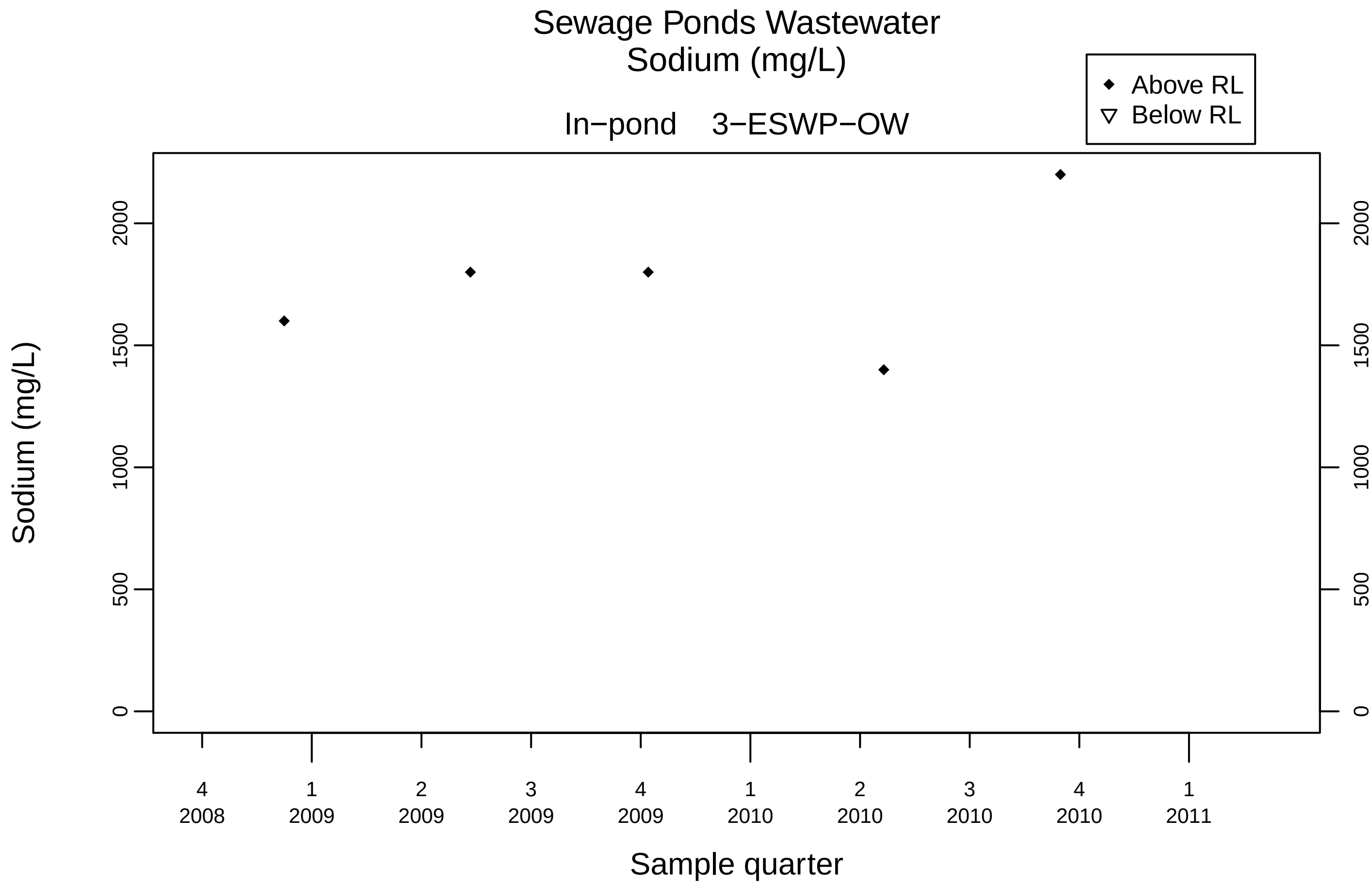

Sewage Ponds Wastewater
Potassium (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Potassium (ug/L)
0
20000
40000
60000
80000
100000
120000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


Sewage Ponds Wastewater
Selenium (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Selenium (ug/L)
0
10
20
30
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


Sewage Ponds Wastewater
Silver (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Silver (ug/L)
0
2
4
6
8
10
2 2010
3 2010
4 2010
1 2011
Sample quarter


Sewage Ponds Wastewater
Vanadium (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Vanadium (ug/L)
0
20
40
60
80
100
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


Sewage Ponds Wastewater
Zinc (ug/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Zinc (ug/L)
0
20
40
60
80
100
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
Sample quarter


Sewage Ponds Wastewater
Sodium (mg/L)
In−pond 3−ESWP−OW
Above RL
Below RL
Sodium (mg/L)
0
500
1000
1500
2000
4 2008
1 2009
2 2009
3 2009
4 2009
1 2010
2 2010
3 2010
4 2010
1 2011
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 2010 anions data summary.

Building	Well	Date	Sodium (mg/L)	Chloride (mg/L)	Nitrate (as NO3) (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)
B801	3-801ACT01-TW	May 12	350	170	<0.5	330	0.51
B801	3-801ACT01-TW	Oct 7	480	180	1.1	370	0.89
B809	3-809ACT01-TW	May 12	240	100	<0.5	210	0.32
B809	3-809ACT01-TW	Oct 7	250	89	<0.5	200	0.33
B817	3-817ACT01-TW	May 12	210	88	<0.5	180	0.29
B817	3-817ACT01-TW	Oct 7	240	88	<0.5	180	0.47
B825	3-825ACT01-TW	Nov 30	240	82	<0.5	170	0.35
B826	3-826FCT01-TW	May 12	1500	1,200	3.2	2,500	3.4
B826	3-826FCT01-TW	Oct 7	220	84	<0.5	170	0.30
B827	3-827ACT01-TW	May 12	250	110	<0.5	230	0.32
B827	3-827ACT01-TW	Oct 7	310	120	0.50	250	0.47
B851	3-851BFCT01-TW	May 12	350	170	<2.5	360	0.48
B851	3-851BFCT01-TW	Oct 7	2000	950	5.8	1,900	3.5

Table B-2. Site 300 cooling tower wastewater monitoring network annual/second semester 2010 metals analysis data summary.

Analyte (µg/L)	Quarter	3-801ACT01-TW	3-809ACT01-TW	3-817ACT01-TW	3-825ACT01-TW	3-826FCT01-TW	3-827ACT01-TW	3-851BFCT01-TW
Aluminum	Q2[a]	<50	<50	<50	–	<50	<50	50
	Q4[b]	<50	<50	<50	<50	<50	<50	<100
Arsenic	Q2	<2	<2	<2	–	<8	<2	<4
	Q4	<2	<2	<2	<2	<2	<2	3.2
Barium	Q2	<25	<25	<25	–	120	<25	<50
	Q4	25	<25	<25	<25	<25	<25	35
Boron	Q2	1,800	1,200	1000	–	11,000	1,300	1,900
	Q4	2,000	1,100	1000	980	890	1,300	9,800
Cadmium	Q2	<50	<50	<50	–	<200	<50	<100
	Q4	<50	<50	<50	<50	<50	<50	<50
Calcium	Q2	18,000	8,800	8,000	–	52,000	12,000	24,000
	Q4	23,000	7,400	17,000	8,200	7,800	12,000	18,000
Chromium	Q2	<1	<1	<1	–	9.6	<1	<1
	Q4	1.2	<1	<1	<1	<1	<1	7.7
Chromium(VI)	Q2	<1	<1	<1	–	1.1	<1	<1
	Q4	<1	<1	<1	3.7	<1	<1	7.9
Copper	Q2	6.0	130	21	–	210	10	26
	Q4	8.7	51	16	21	4.1	11	140
Iron	Q2	<100	<100	<100	–	1100	<100	280
	Q4	130	<100	<100	<100	<100	140	560
Lead	Q2	<5	<5	<5	–	<20	<5	<10
	Q4	<5	<5	<5	<5	<5	<5	<5
Magnesium	Q2	<500	<500	<500	–	2,500	<500	<500
	Q4	<500	<500	<500	<500	<500	<500	<1,000
Manganese	Q2	<30	<30	<30	–	<30	<30	<30
	Q4	<30	<30	<30	<30	<30	<30	<60
Molybdenum	Q2	40	26	<25	–	280	27	43
	Q4	44	<25	<25	<25	<25	27	220
Nickel	Q2	<2	<2	<2	–	<8	<2	<4
	Q4	<2	<2	<2	<2	<2	<2	<2
Potassium	Q2	21,000	13,000	10,000	–	97,000	13,000	21,000
	Q4	19,000	9,400	11,000	8,000	8400	12,000	100,000
Selenium	Q2	<2	<2	<2	–	<8	<2	<4
	Q4	<2	<2	<2	<2	<2	<2	2.1
Silver	Q2	<10	<10	<10	–	<40	<10	<20
	Q4	<1	<1	<1	<1	<1	<1	<1
Vanadium	Q2	<20	<20	<20	–	<80	<20	<40
	Q4	<20	<20	<20	<20	<20	<20	<20
Zinc	Q2	48	24	60	–	360	44	85
	Q4	50	31	51	110	140	63	89

Note:
(–) = No detection.
[a] All Q2 sampling was May 12, 2010.
[b] All Q4 sampling was October 7, 2010 except B825 which was sampled on November 30, 2010.

Table B-3. Site 300 cooling tower wastewater monitoring network annual/second semester 2010 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 12	9.0	1,850	370	1,300	47	2.1
B801	3-801ACT01-TW	Oct 7	9.0	2,000	420	1,500	58	1.3
B809	3-809ACT01-TW	May 12	8.8	1,280	250	850	24	0.82
B809	3-809ACT01-TW	Oct 7	8.8	1,120	230	800	20	0.55
B817	3-817ACT01-TW	May 12	8.6	1,050	200	690	21	0.45
B817	3-817ACT01-TW	Oct 7	8.8	1,120	250	800	43	0.54
B825	3-825ACT01-TW	Nov 30	8.4	1,010	200	710	22	0.19
B826	3-826FCT01-TW	May 12	9.4	10,800	2,000	7,900	140	76
B826	3-826FCT01-TW	Oct 7	8.6	1,030	210	730	21	2.0
B827	3-827ACT01-TW	May 12	8.8	1,310	260	740	30	1.3
B827	3-827ACT01-TW	Oct 7	8.9	1,430	300	1,000	32	1.1
B851	3-851BFCT01-TW	May 12	9.0	2,120	430	1,400	62	0.75
B851	3-851BFCT01-TW	Oct 7	9.5	8,860	1,900	7,000	81	1.7

Table B-4. Site 300 cooling tower wastewater monitoring network annual/second semester 2010 QA data summary.

Constituent	Units	3-817ACT01-TW	3-817ACT01-TW	3-817ACT01-TW	3-817ACT01-TW
		May 12	May 12	Oct 7	Oct 7
		Routine	Duplicate	Routine	Duplicate
pH	Units	8.6	8.6	8.6	8.6
Specific Conductance	μmhos/cm	1,050	1,050	1,030	997
Aluminum	μg/L	<50	<50	<50	<50
Arsenic	μg/L	<2	<2	<2	<2
Barium	μg/L	<25	<25	<25	<25
Boron	μg/L	1,000	990	890	880
Cadmium	μg/L	<50	<50	<50	<50
Calcium	μg/L	8,000	8,100	7,800	7,700
Chromium	μg/L	<1	<1	<1	<1
Chromium (VI)	μg/L	<1	<1	<1	<1
Copper	μg/L	21	22	4.1	4.2
Iron	μg/L	<100	<100	<100	<100
Lead	μg/L	<5	<5	<5	<5
Magnesium	μg/L	<500	<500	<500	<500
Manganese	μg/L	<30	<30	<30	<30
Molybdenum	μg/L	<25	<25	<25	<25
Nickel	μg/L	<2	<2	<2	<2
Potassium	μg/L	10,000	10,000	8,400	8,200
Selenium	μg/L	<2	<2	<2	<2
Vanadium	μg/L	<20	<20	<20	<20
Silver	μg/L	<10	<10	<1	<1
Zinc	μg/L	60	57	140	140
Sodium	mg/L	210	210	220	210
Chloride	mg/L	88	88	84	83
Nitrate (as NO3)	mg/L	<0.5	<0.5	<0.5	<0.5
Sulfate	mg/L	180	180	170	170
Fluoride	mg/L	0.29	0.25	0.30	0.32
Total Alkalinity (as CaCO3)	mg/L	200	200	210	210
Total dissolved solids (TDS)	mg/L	690	700	730	730
Total Hardness (as CaCO3)	mg/L	21	22	21	20
Total Phosphorus (as PO4)	mg/L	0.45	0.43	2.0	2.1

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

*For DUP (BC Labs) sample use 1 x Liter Poly + 1 x 500 mL poly w/H2SO4

LAB	CoC#	Ship It #
BC Labs	51112	
Caltest		

pH meter calibrated on: 11/30/10
Specific Conductance meter calibrated on: 11/30/10

Sample Date: 11/30/10

Location Indentifier	Location DUP taken -year/quarter	Arrival/Sample Time	Initials	Field Measurments: pH	Field Measurments: Specific Conductance	BC Labs: S3METALS 500mL Poly	BC Labs: S3ANIONS 1 x 500ml Poly	BC Labs: * S3WETCHEM 1000mL Poly	Comments
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		13:30	KB	8.10	1061us	✓	✓	✓	
3-826FCT01-TW	2010/4th								
3-827ACT01-TW									
3-851BFCT01-TW									
Duplicate of 3-826FCT01-TW to be sent to BC Labs									
3-B9900-01-TW									

☑ Copy to Analyst, Allen Grayson.
Revision by DMT/JCN

☑ Copy of CoC given to TRR

Revised 10/04/2010

Chain of Custody

EPD: EMAD/PRAD/ESPD
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Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 51112
Document Control #: 51112
Requester/LLNL Analyst: A. Grayson
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: 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
3-825ACT01-01-TW	11/30/2010 13:30	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-825ACT01-01-TW	11/30/2010 13:30	TW	P	0	COOLTOWER	S3METALS	ALL	
3-825ACT01-01-TW	11/30/2010 13:30	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-825ACT01-01-TW	11/30/2010 13:30	TW	P	1	COOLTOWER	S3WETCHEM	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 [signature]	LLNL/EPD	11/30/2010	1500	2			
2				3			
3				4			
4				5			

Revision Printed: 10/29/2010/16/03/03

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 DUP sample (also to BC Labs) use 1 x Liter Poly + 1 x 500 mL poly w/H2SO4
** For 3-B827A-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	50844	
Caltest		

pH meter calibrated on: 10/19/10
Specific Conductance meter calibrated on: 10/19/10

Sample Date: 10/19/10

Location Indentifier	Arrival/Sample Time	Initials	Field Meas: pH	Field Meas: Specific Conductance	BC Labs: S3METALS 500mL Poly	BC Labs: S3ANIONS 1 x 500ml Poly	BC Labs: * S3WETCHEM 1000mL Poly	Comments
3-B827A-01-OW**								B827C STArted at 7:50 am Composite Sample Consisted of 78, 15ml Samples collected over a 6 1/2 Hour Time Frame. Approximately 6 Liters collected 1 Sample every 5 min.
3-B827C-01-OW	1415	KB	10.21	9.64 ms	✓	✓	✓	
3-B827D-01-OW								
3-B827E-01-OW								
3-B806-01-OW								
Duplicate of 3-B827A-01-OW								
3-B9900-OW								

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☑ Copy of CoC given to TRR

Revised by: DMT/JCN

Revised 10/04/2010

Chain of Custody

EPD: EMAD/PRAD/ESPD
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Livermore, CA 94551

Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 50844
Document Control #: 50844
Requester/LLNL Analyst: A. Grayson
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-B827C-01-OW	10/19/2010 14:15	AQ	P	1	SPECIAL	S3ANIONS	ALL	
3-B827C-01-OW	10/19/2010 14:15	AQ	P	0	SPECIAL	S3METALS	ALL	
3-B827C-01-OW	10/19/2010 14:15	AQ	P	1	SPECIAL	S3METALS	TOTAL	
3-B827C-01-OW	10/19/2010 14:15	AQ	P	1	SPECIAL	S3WETCHEM	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 [signature]	LLNL/EPD	10/19/2010	1530	2			
2				3			
3				4			
4				5			

Revision Printed: 02/05/2010/15/45/02

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

*For DUP (BC Labs) sample use 1 x Liter Poly + 1 x 500 mL poly w/H2SO4

LAB	CoC#	Ship It #
BC Labs	50680	
Caltest	N/A	

pH meter calibrated on: 10/7
Specific Conductance meter calibrated on: 10/7

Sample Date: 10/7/10

Location Indentifier	Location DUP taken -year/quarter	Arrival/Sample Time	Initials	Field Measurments: pH	Field Measurments: Specific Conductance	BC Labs: S3METALS 500mL Poly	BC Labs: S3ANIONS 1 x 500ml Poly	BC Labs: * S3WETCHEM 1000mL Poly	Comments
3-801ACT01-TW	2009/2nd	935	KB GB	8.82	1970 us				
3-809ACT01-TW	2009/4th	835	KB, GB	9.14	1154 us	✓	✓	✓	
3-812AFCT01-TW	2008/4th	Not in use							
3-817ACT01-TW *	2010/2nd	845	KB GB	8.68	1135 us	✓	✓	✓	
3-825ACT01-TW	OFF LINE								
3-826FCT01-TW	2010/4th	855	KB, GB	8.46	1042 us	✓	✓	✓	
3-827ACT01-TW		0920	KB, GB	8.74	1421 us	✓	✓	✓	
3-851BFCT01-TW		0950	KB, GB	9.32	9.27 ms	✓	✓	✓	
Duplicate of 3-826FCT01-TW to be sent to BC Labs									
3-B9900-01-TW		855	KB GB			✓	✓	✓	

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Revision by DMT/JCN

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Revised 10/04/2010

Chain of Custody

EPD: EMAD/PRAD/ESPD
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Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 50680
Document Control #: 50680
Requester/LLNL Analyst: A. Grayson
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: 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	10/07/2010 09:35	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-801ACT01-01-TW	10/07/2010 09:35	TW	P	0	COOLTOWER	S3METALS	ALL	
3-801ACT01-01-TW	10/07/2010 09:35	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-801ACT01-01-TW	10/07/2010 09:35	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-809ACT01-01-TW	10/07/2010 08:35	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-809ACT01-01-TW	10/07/2010 08:35	TW	P	0	COOLTOWER	S3METALS	ALL	
3-809ACT01-01-TW	10/07/2010 08:35	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-809ACT01-01-TW	10/07/2010 08:35	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-817ACT01-01-TW	10/07/2010 08:45	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-817ACT01-01-TW	10/07/2010 08:45	TW	P	0	COOLTOWER	S3METALS	ALL	
3-817ACT01-01-TW	10/07/2010 08:45	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-817ACT01-01-TW	10/07/2010 08:45	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-826FCT01-01-TW	10/07/2010 08:55	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-826FCT01-01-TW	10/07/2010 08:55	TW	P	0	COOLTOWER	S3METALS	ALL	
3-826FCT01-01-TW	10/07/2010 08:55	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-826FCT01-01-TW	10/07/2010 08:55	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-B9900-01-TW	10/07/2010 08:55	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-B9900-01-TW	10/07/2010 08:55	TW	P	0	COOLTOWER	S3METALS	ALL	
3-B9900-01-TW	10/07/2010 08:55	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-B9900-01-TW	10/07/2010 08:55	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-827ACT01-01-TW	10/07/2010 09:20	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-827ACT01-01-TW	10/07/2010 09:20	TW	P	0	COOLTOWER	S3METALS	ALL	
3-827ACT01-01-TW	10/07/2010 09:20	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-827ACT01-01-TW	10/07/2010 09:20	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-851BFCT01-01-TW	10/07/2010 09:50	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-851BFCT01-01-TW	10/07/2010 09:50	TW	P	0	COOLTOWER	S3METALS	ALL	
3-851BFCT01-01-TW	10/07/2010 09:50	TW	P	1	COOLTOWER	S3METALS	TOTAL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 [signature]	LLNL/EPD	10/7/2010	13:30	2			
2				3			
3				4			
4				5			

Revision Printed: 02/05/2010/15/45/02   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 #: 50680
Document Control #: 50680
Requester/LLNL Analyst: A. Grayson
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: 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
3-851BFCT01-01-TW	10/07/2010 09:50	TW	P	1	COOLTOWER	S3WETCHEM	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 [signature]	LLNL/EPD	10/7/2010	1330	2			
2				3			
3				4			
4				5			

Revision Printed: 02/05/2010/15/45/02

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

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 7-21-10 Inspector D. LANDEM 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 7-21-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 7-21-10 Inspector D- [illegible] 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 7-21-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 7-21-10 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annard Date 7-21-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 7-21-10 Inspector D. Laudenn Building Number 817A

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

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

Send a completed copy to the attention of Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annaro Date 7-21-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 7-21-10 Inspector D. LANDRUM Building Number 812

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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 7-21-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 7-21-10 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 7-21-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 7-21-10 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Armanio Date 7-21-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 8-11-10 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Anderson Date 8-11-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 8-11-10 Inspector D. Laudeman 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 8-11-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 8-11-10 Inspector D. Landeen 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Dan Annaro Date 8-11-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 8-11-10 Inspector D. Landeen Building Number 817

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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Armann Date 8-11-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 8-11-10 Inspector D. LANDRUM Building Number 812

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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 8-11-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 8-11-10 Inspector D. Landram 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annonio Date 8-11-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 8-11-10 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Armanno Date 8-11-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 9-22-10 Inspector D. Larsson 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 9-22-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 9-22-10 Inspector D. LAUDERM 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annuno Date 9-22-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Revision 3

10/08 ksf

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 9-22-10 Inspector D. Lawsram 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Armond Date 9-22-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 9-22-10 Inspector D. LACSAMA 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Armand Date 9-22-10

* 1 Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 9-22-10 Inspector D. Lalorrum Building Number 812

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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annano Date 9-22-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 9-22-10 Inspector D. Larsen 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annero Date 9-22-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 9-22-10 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Armann Date 9-22-10

* 1 Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 10-27-10 Inspector D. Landram 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annano Date 10-27-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 10-27-10 Inspector D. Landrum 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 10-27-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 10-28-10 Inspector D. LANDREN 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 10-28-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 10-28-10 Inspector D. Larsen Building Number 817A

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

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

Send a completed copy to the attention of Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 10-28-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 10-28-10 Inspector D. LANDRUM Building Number 812

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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annonio Date 10-28-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Revision 3

10/08 ksf

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 10-28-10 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 Richard Blake, PRAD (L-627), EPD.

<u>Check Items</u>

	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 EDO and PRAD (2-9910) 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 monthly 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 Annand Date 10-28-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 10-28-10 Inspector D. Landram 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Andrews Date 10-28-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 11-17-10 Inspector D. Lavorna 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Amorno Date 11-17-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 11·17-10 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 11-17-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 11-17-10 Inspector D. Larsen 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annaro Date 11-17-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 11-17-10 Inspector D. Lacaden 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annoro Date 11-17-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 11-17-10 Inspector D. Lacorn Building Number 812

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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Antonio Date 11-17-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 11-17-10 Inspector D. Larsen 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Andrews Date 11-17-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 11-17-10 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annarino Date 11-17-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 12-8-10 Inspector D. Langham 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Armoro Date 12-8-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 12-8-10 Inspector D. Landgum 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annaro Date 12-8-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 12-8-10 Inspector D. Larson 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Armour Date 12-8-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 12-8-10 Inspector D. Landram 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Armond Date 12-8-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 12-8-10 Inspector D. Landaman Building Number 812

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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Annaro Date 12-8-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 12-8-10 Inspector [illegible] 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 [illegible] Date 12-8-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 12-8-10 Inspector O. Laclegan 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 12-8-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 12-8-10 Inspector [illegible] 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 12-8-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Quarterly/Monthly Cooling Tower Inspection Checklist*
For Buildings 801, 809, 812, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148

Date 12-8-10 Inspector O. LACHLAN 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 Richard Blake, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 12-8-10

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Waste Discharge Requirements Order Number R5-2008-0148.

Appendix C

Mechanical Room Network

Mechanical Equipment Discharge Effluent Monitoring for Buildings 806 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 2010 anions data summary.

Well	Date	Fluoride (mg/L)	Nitrate (as NO3) (mg/L)	Sulfate (mg/L)	Chloride (mg/L)
B806B	May 13	0.29	<0.5	180	86
B806B	Oct 12	0.32	<0.5	170	85
B827A	Oct 13	0.36	0.69	210	100
B827A	Oct 13 DUP	0.34	0.64	210	100
B827C	May 20	1.3	<2.5	730	370
B827C	Oct 19	3.5	<5	1900	1100
B827D	May 19	0.33	<0.5	180	86
B827D	May 19 DUP	0.33	<0.5	180	86
B827D	Oct 18	0.58	<0.5	380	150
B827E	May 18	0.50	<0.5	180	83
B827E	Oct 14	0.28	<0.5	170	96

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2010 metals data summary.

Analyte (mg/L)	Date	B806B	B827A	B827A DUP	B827C	B827D	B827D DUP	B827E
Aluminum	May 13	<0.05	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	0.071
	May 19	-	-	-	-	0.18	<0.05	-
	May 20	-	-	-	0.083	-	-	-
	Oct 12	<0.05	-	-	-	-	-	-
	Oct 13	-	<0.05	<0.05	-	-	-	-
	Oct 14	-	-	-	-	-	-	0.051
	Oct 18	-	-	-	-	<0.05	-	-
	Oct 19	-	-	-	<0.25	-	-	-
Arsenic	May 13	<0.002	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	<0.002
	May 19	-	-	-	-	<0.002	<0.002	-
	May 20	-	-	-	0.0046	-	-	-
	Oct 12	<0.002	-	-	-	-	-	-
	Oct 13	-	<0.002	<0.002	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.002
	Oct 18	-	-	-	-	<0.002	-	-
	Oct 19	-	-	-	0.0050	-	-	-
Barium	May 13	<0.025	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	<0.025
	May 19	-	-	-	-	<0.025	<0.025	-
	May 20	-	-	-	<0.025	-	-	-
	Oct 12	<0.025	-	-	-	-	-	-
	Oct 13	-	<0.025	<0.025	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.025
	Oct 18	-	-	-	-	<0.025	-	-
	Oct 19	-	-	-	<0.025	-	-	-
Boron	May 13	0.91	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	0.99
	May 19	-	-	-	-	0.93	0.93	-
	May 20	-	-	-	3.5	-	-	-
	Oct 12	0.96	-	-	-	-	-	-
	Oct 13	-	1.1	1.1	-	-	-	-
	Oct 14	-	-	-	-	-	-	0.95
	Oct 18	-	-	-	-	1.6	-	-
	Oct 19	-	-	-	8.5	-	-	-
Cadmium	May 13	<0.05	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	<0.05
	May 19	-	-	-	-	<0.05	<0.05	-
Cadmium (cont.)	May 20	-	-	-	<0.05	-	-	-
	Oct 12	<0.05	-	-	-	-	-	-
	Oct 13	-	<0.05	<0.05	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.05
	Oct 18	-	-	-	-	<0.05	-	-
	Oct 19	-	-	-	<0.05	-	-	-
Chromium	May 13	<0.001	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	<0.001

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2010 metals data summary.

Analyte (mg/L)	Date	B806B	B827A	B827A DUP	B827C	B827D	B827D DUP	B827E
	May 19	-	-	-	-	0.0030	<0.001	-
	May 20	-	-	-	0.0016	-	-	-
	Oct 12	<0.001	-	-	-	-	-	-
	Oct 13	-	<0.001	<0.001	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.001
	Oct 18	-	-	-	-	<0.001	-	-
	Oct 19	-	-	-	0.0070	-	-	-
Chromium (VI)	May 13	<0.001	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	<0.001
	May 19	-	-	-	-	<0.001	<0.001	-
	May 20	-	-	-	<0.001	-	-	-
	Oct 12	<0.001	-	-	-	-	-	-
	Oct 13	-	<0.001	<0.001	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.001
	Oct 18	-	-	-	-	<0.001	-	-
	Oct 19	-	-	-	0.0063	-	-	-
Copper	May 13	0.092	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	0.50
	May 19	-	-	-	-	0.24	0.059	-
	May 20	-	-	-	0.24	-	-	-
	Oct 12	0.083	-	-	-	-	-	-
	Oct 13	-	0.0069	0.0066	-	-	-	-
	Oct 14	-	-	-	-	-	-	0.065
	Oct 18	-	-	-	-	0.11	-	-
	Oct 19	-	-	-	0.35	-	-	-
Iron	May 13	0.10	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	4.9
	May 19	-	-	-	-	2.8	0.70	-
	May 20	-	-	-	1.2	-	-	-
	Oct 12	<0.1	-	-	-	-	-	-
	Oct 13	-	<0.1	<0.1	-	-	-	-
	Oct 14	-	-	-	-	-	-	0.28
Iron (cont.)	Oct 18	-	-	-	-	1.9	-	-
	Oct 19	-	-	-	2.0	-	-	-
Lead	May 13	<0.005	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	0.066
	May 19	-	-	-	-	0.0059	<0.005	-
	May 20	-	-	-	<0.005	-	-	-
	Oct 12	<0.005	-	-	-	-	-	-
	Oct 13	-	<0.005	<0.005	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.005
	Oct 18	-	-	-	-	<0.005	-	-
	Oct 19	-	-	-	0.0074	-	-	-
Manganese	May 13	<0.03	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	0.042
	May 19	-	-	-	-	0.032	<0.03	-

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2010 metals data summary.

Analyte (mg/L)	Date	B806B	B827A	B827A DUP	B827C	B827D	B827D DUP	B827E
	May 20	-	-	-	0.034	-	-	-
	Oct 12	<0.03	-	-	-	-	-	-
	Oct 13	-	<0.03	<0.03	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.03
	Oct 18	-	-	-	-	<0.03	-	-
	Oct 19	-	-	-	<0.15	-	-	-
Molybdenum	May 13	<0.025	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	<0.025
	May 19	-	-	-	-	<0.025	<0.025	-
	May 20	-	-	-	0.079	-	-	-
	Oct 12	<0.025	-	-	-	-	-	-
	Oct 13	-	<0.025	<0.025	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.025
	Oct 18	-	-	-	-	0.033	-	-
	Oct 19	-	-	-	0.17	-	-	-
Nickel	May 13	<0.002	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	0.0039
	May 19	-	-	-	-	0.0038	<0.002	-
	May 20	-	-	-	0.0038	-	-	-
	Oct 12	<0.002	-	-	-	-	-	-
	Oct 13	-	<0.002	<0.002	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.002
	Oct 18	-	-	-	-	<0.002	-	-
	Oct 19	-	-	-	0.0026	-	-	-
Selenium	May 13	<0.002	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	<0.002
	May 19	-	-	-	-	<0.002	<0.002	-
	May 20	-	-	-	0.0033	-	-	-
	Oct 12	<0.002	-	-	-	-	-	-
	Oct 13	-	<0.002	<0.002	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.002
	Oct 18	-	-	-	-	0.0023	-	-
	Oct 19	-	-	-	0.0076	-	-	-
Silver	May 13	<0.01	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	<0.01
	May 19	-	-	-	-	<0.01	<0.01	-
	May 20	-	-	-	<0.01	-	-	-
	Oct 12	<0.01	-	-	-	-	-	-
	Oct 13	-	<0.01	<0.01	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.01
	Oct 18	-	-	-	-	<0.01	-	-
	Oct 19	-	-	-	<0.01	-	-	-
Sodium	May 13	190	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	270
	May 19	-	-	-	-	190	200	-
	May 20	-	-	-	970	-	-	-

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2010 metals data summary.

Analyte (mg/L)	Date	B806B	B827A	B827A DUP	B827C	B827D	B827D DUP	B827E
	Oct 12	220	-	-	-	-	-	-
	Oct 13	-	260	270	-	-	-	-
	Oct 14	-	-	-	-	-	-	230
	Oct 18	-	-	-	-	440	-	-
	Oct 19	-	-	-	2200	-	-	-
Vanadium	May 13	<0.02	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	<0.02
	May 19	-	-	-	-	<0.02	<0.02	-
	May 20	-	-	-	<0.02	-	-	-
	Oct 12	<0.02	-	-	-	-	-	-
	Oct 13	-	<0.02	<0.02	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.02
	Oct 18	-	-	-	-	<0.02	-	-
	Oct 19	-	-	-	<0.02	-	-	-
Zinc	May 13	<0.02	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	0.082
	May 19	-	-	-	-	0.11	0.038	-
	May 20	-	-	-	0.052	-	-	-
Zinc (cont.)	Oct 12	<0.02	-	-	-	-	-	-
	Oct 13	-	0.028	0.028	-	-	-	-
	Oct 14	-	-	-	-	-	-	0.029
	Oct 18	-	-	-	-	0.044	-	-
	Oct 19	-	-	-	0.061	-	-	-
Calcium	May 13	7.4	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	2.0
	May 19	-	-	-	-	10	9.6	-
	May 20	-	-	-	3.9	-	-	-
	Oct 12	8.0	-	-	-	-	-	-
	Oct 13	-	11	11	-	-	-	-
	Oct 14	-	-	-	-	-	-	6.9
	Oct 18	-	-	-	-	8.7	-	-
	Oct 19	-	-	-	8.9	-	-	-
Magnesium	May 13	<0.5	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	<0.5
	May 19	-	-	-	-	<0.5	<0.5	-
	May 20	-	-	-	<0.5	-	-	-
	Oct 12	<0.5	-	-	-	-	-	-
	Oct 13	-	<0.5	<0.5	-	-	-	-
	Oct 14	-	-	-	-	-	-	<0.5
	Oct 18	-	-	-	-	<0.5	-	-
	Oct 19	-	-	-	<2.5	-	-	-
Potassium	May 13	9.3	-	-	-	-	-	-
	May 18	-	-	-	-	-	-	56
	May 19	-	-	-	-	9.5	9.6	-
	May 20	-	-	-	31	-	-	-
	Oct 12	9.6	-	-	-	-	-	-

Table C-2. Site 300 mechanical equipment discharge effluent monitoring annual/second semester 2010 metals data summary.

Analyte (mg/L)	Date	B806B	B827A	B827A DUP	B827C	B827D	B827D DUP	B827E
	Oct 13	-	10	10	-	-	-	-
	Oct 14	-	-	-	-	-	-	7.9
	Oct 18	-	-	-	-	69	-	-
	Oct 19	-	-	-	150	-	-	-

Note: A dash (-) indicates 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 2010 physical data.

Well	Date	Total Alkalinity (as CaCO3)	Specific Conductance	Total dissolved solids (TDS)	Total Phosphorus (as PO4)	pH	Total Hardness (as CaCO3)
B806B	May 13	200	1000	700	<0.15	8.4	20
B806B	Oct 12	200	1000	710	<0.15	8.4	22
B827A	Oct 13	240	1200	880	0.40	8.7	29
B827A	Oct 13 DUP	240	1200	870	0.40	8.7	28
B827C	May 20	900	4200	3000	13	10	10
B827C	Oct 19	1900	9700	8000	60	10	23
B827D	May 19	210	990	720	0.16	8.5	27
B827D	May 19 DUP	200	1000	710	0.18	8.5	25
B827D	Oct 18	510	2300	1800	65	10	22
B827E	May 18	300	1200	840	13	8.9	6.0
B827E	Oct 14	200	1100	770	0.33	8.6	18

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 DUP sample (also to BC Labs) use 1 x Liter Poly + 1 x 500 mL poly w/H2SO4
** For 3-B827A-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	50823	
Caltest		

pH meter calibrated on: 10/18
Specific Conductance meter calibrated on: 10/18

Sample Date: 10/18/10

			Field Meas		BC Labs			Comments
Location Indentifier	Arrival/Sample Time	Initials	pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	* S3WETCHEM 1000mL Poly	
3-B827A-01-OW**								B827D Started at 7:40am
3-B827C-01-OW								Composite Sample Consisted of 80, 150ml Samples Collected over a 6 1/2 Hour Time frame.
3-B827D-01-OW	1420	KB	9.95	2.53 ms	✓	✓	✓	Approximately 8 Liters collected
3-B827E-01-OW								1 Sample every 5 min.
3-B806-01-OW								
Duplicate of 3-B827A-01-OW								
3-B9900-OW								

☑ Copy to Analyst, Allen Grayson.

☑ Copy of CoC given to TRR

Revised by: DMT/JCN

Revised 10/04/2010

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 #: 50823
Document Control #: 50823
Requester/LLNL Analyst: A. Grayson
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	10/18/2010 14:20	AQ	P	1	SPECIAL	S3ANIONS	ALL	
3-B827D-01-OW	10/18/2010 14:20	AQ	P	0	SPECIAL	S3METALS	ALL	
3-B827D-01-OW	10/18/2010 14:20	AQ	P	1	SPECIAL	S3METALS	TOTAL	
3-B827D-01-OW	10/18/2010 14:20	AQ	P	1	SPECIAL	S3WETCHEM	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 Karl Brunckhorst	LLNL/EPD	10/18/2010	15:30	2			
2				3			
3				4			
4				5			

Revision Printed: 02/05/2010/15/45/02

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 DUP sample (also to BC Labs) use 1 x Liter Poly + 1 x 500 mL poly w/H2SO4
** For 3-B827A-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	50808	
Caltest		

pH meter calibrated on: 10/14/10
Specific Conductance meter calibrated on: 10/14/10

Sample Date: 10/14/10

			Field Meas		BC Labs			Comments
Location Indentifier	Arrival/Sample Time	Initials	pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	* S3WETCHEM 1000mL Poly	PAT Gallagher 3-5203 827E STARTED at 8:45am Composite Sample Consisted of 70, 150ml Samples Collected over a 5½ hour Time frame. Approximately 8 Liters Collected 1 Sample every 5 min.
3-B827A-01-OW**								
3-B827C-01-OW								
3-B827D-01-OW								
3-B827E-01-OW	1420	KB	8.65	1156us	✓	✓	✓	
3-B806-01-OW								
Duplicate of 3-B827A-01-OW								
3-B9900-OW								

☑ Copy to Analyst, Allen Grayson.   ☑ Copy of CoC given to TRR

Revised by: DMT/JCN

Revised 10/04/2010

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 #: 50808
Document Control #: 50808
Requester/LLNL Analyst: A. Grayson
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-B827E-01-OW	10/14/2010 14:20	AQ	P	1	SPECIAL	S3ANIONS	ALL	
3-B827E-01-OW	10/14/2010 14:20	AQ	P	0	SPECIAL	S3METALS	ALL	
3-B827E-01-OW	10/14/2010 14:20	AQ	P	1	SPECIAL	S3METALS	TOTAL	
3-B827E-01-OW	10/14/2010 14:20	AQ	P	1	SPECIAL	S3WETCHEM	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 [illegible]	LLNL/EPD	10/14/2010	1530	2			
2				3			
3				4			
4				5			

Revision Printed: 02/05/2010/15/45/02

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 DUP sample (also to BC Labs) use 1 x Liter Poly + 1 x 500 mL poly w/H2SO4
** For 3-B827A-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	50771	
Caltest		

pH meter calibrated on: 10/12
Specific Conductance meter calibrated on: 10/12

Sample Date: 10/13/10

			Field Meas		BC Labs			Comments
Location Indentifier	Arrival/Sample Time	Initials	pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	* S3WETCHEM 1000mL Poly	
3-B827A-01-OW**	1430	KB	8.46	1248 uS	✓	✓	✓	B827A Sample Started at 8:00 am Composite Sample consisting of 78 50 ml Samples Collected over a 6 1/2 hour time frame Approx 4.5 Liters Collected 1 Sample Every 5 min.
3-B827C-01-OW								
3-B827D-01-OW								
3-B827E-01-OW								
3-B806-01-OW								
Duplicate of 3-B827A-01-OW								
3-B9900-OW	1430	KB			✓	✓	✓	

☑ Copy to Analyst, Allen Grayson.   ☑ Copy of CoC given to TRR

Revised by: DMT/JCN

Revised 10/04/2010

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 #: 50771
Document Control #: 50771
Requester/LLNL Analyst: A. Grayson
Organization / Sampler: EPD / brunckhorst2
PCI Project #: 35166
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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-B827A-01-OW	10/13/2010 14:30	AQ	P	1	SPECIAL	S3ANIONS	ALL	
3-B827A-01-OW	10/13/2010 14:30	AQ	P	0	SPECIAL	S3METALS	ALL	
3-B827A-01-OW	10/13/2010 14:30	AQ	P	1	SPECIAL	S3METALS	TOTAL	
3-B827A-01-OW	10/13/2010 14:30	AQ	P	1	SPECIAL	S3WETCHEM	ALL	
3-B9900-01-OW	10/13/2010 14:30	AQ	P	1	SPECIAL	S3ANIONS	ALL	
3-B9900-01-OW	10/13/2010 14:30	AQ	P	0	SPECIAL	S3METALS	ALL	
3-B9900-01-OW	10/13/2010 14:30	AQ	P	1	SPECIAL	S3METALS	TOTAL	
3-B9900-01-OW	10/13/2010 14:30	AQ	P	1	SPECIAL	S3WETCHEM	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 Saul Brunckhorst	LLNL/EPD	10/13/2010	1530	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 DUP sample (also to BC Labs) use 1 x Liter Poly + 1 x 500 mL poly w/H2SO4
** For 3-B827A-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	50740	141555
Caltest		

pH meter calibrated on: 10/12/10
Specific Conductance meter calibrated on: 10/12/10

Sample Date: 10/12/10

			Field Meas		BC Labs			Comments
Location Indentifier	Arrival/Sample Time	Initials	pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	* S3WETCHEM 1000mL Poly	~~S3ME~~ S3METALS All Qty. Ø on CoC 806 STARTED at 7:50 am Composite Sample Consisting of 75, 100 ml Samples Collected over a 6 hr Time Frame Approx 15 Liters Collected 1 sample every 5 min.
3-B827A-01-OW**								
3-B827C-01-OW								
3-B827D-01-OW								
3-B827E-01-OW								
3-B806-01-OW	1400	TP, KB	8.44	1192 µs	✓	✓	✓	
Duplicate of 3-B827A-01-OW								
3-B9900-01-OW								

☑ Copy to Analyst, Allen Grayson. ☑ Copy of CoC given to TRR

Revised by: DMT/JCN

Revised 10/04/2010

Chain of Custody

EPD: EMAD/PRAD/ESPD
Lawrence Livermore National Laboratory
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Work Authorized By: EPD
TRR Approver:
Project Info:

Access/COC #: 50740
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Requester/LLNL Analyst: A. Grayson
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-B806-01-OW	10/12/2010 14:00	AQ	P	1	MECHEQUIPM	S3ANIONS	ALL	
3-B806-01-OW	10/12/2010 14:00	AQ	P	0	MECHEQUIPM	S3METALS	ALL	
3-B806-01-OW	10/12/2010 14:00	AQ	P	1	MECHEQUIPM	S3METALS	TOTAL	
3-B806-01-OW	10/12/2010 14:00	AQ	P	1	MECHEQUIPM	S3WETCHEM	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 [signature]	LLNL/EPD	10/12/2010	1520	2			
2				3			
3				4			
4				5			

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 7/12/2010 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Botes Date 7/12/10

* 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 7/26/10 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, PRAD (L-627), EPD.

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 EDO and PRAD (2-9910) 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 monthly 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 7·26·10

* 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 7/26/10 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 G. Gallagher Date 7·26·10

* 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 7/26/10 Inspector Aaron T. 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 7·26·10

* 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 7/26/10 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 7-26-10

* 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 8/11/2010 Inspector MARK KRAUHS Building Number 806 B

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

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

Send a completed copy to the attention of Allen Grayson, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Bate Date 8/11/10

* 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 8/30/10 Inspector Aaron T. Fortes 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 8-30-10

* 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 8/30/10 Inspector Aaron T. Fontes Building Number 827 C

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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 8·30·10

* 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 8/30/10 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 8·30·10

* 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 8/30/10 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 A. Gallagher Date 8·30·10

* 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 9-15-2010 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 9/15/10

* 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 9/27/10 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 9·30·10

* 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 9/27/10 Inspector Aaron T. 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 G. Gallagher Date 9·30·10

* 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 9/27/10 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 9·30·10

* 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 9/27/10 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 9-30-10

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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 10-19-2010 Inspector MARK KRAUAS 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 10/19/10

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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 11/16/2010 Inspector MARK KRAUK Building Number 806 B

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

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

Send a completed copy to the attention of Allen Grayson, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 11/16/10

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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 10/25/10 Inspector Aaron T. Fowles 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 A. Gallagher Date 10·25·10

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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 10/25/10 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 10·25·10

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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 10/25/10 Inspector Aaron T. Fontes 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 10.25.10

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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 10/25/10 Inspector Aaron T. Fonto 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 10-25-10

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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 11/16/2010 Inspector MARK KRAUS Building Number 806 B

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

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

Send a completed copy to the attention of Allen Grayson, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 11/16/10

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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 11/29/10 Inspector A. Fortes 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 John E Scott Date 1/13/11

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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 11/29/10 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 1/13/11

* 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 11/29/10 Inspector A. Fonks 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 Joe E Scott Date 1/13/11

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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 11/29/10 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 1/13/11

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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 12-14-2010 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, PRAD (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 EDO and PRAD (2-9910) 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 monthly 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 12/14/10

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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 12/21/10 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, PRAD (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 EDO and PRAD (2-9910) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	
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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 1/13/11

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Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 12/21/10 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.

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Send a completed copy to the attention of Allen Grayson, PRAD (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 EDO and PRAD (2-9910) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	
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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 John Scott Date 1/13/11

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Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 12/21/10 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.

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

Check Items	Response	Description and Comments:
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2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	
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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 1/13/11

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Waste Discharge Requirements Order Number R5-2008-0148
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Date 12/21/10 Inspector A. Fontos 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.

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Send a completed copy to the attention of Allen Grayson, PRAD (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	
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Supervisor's Signature John Scott Date 1/13/11

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Environmental Functional Area, Lawrence Livermore National Laboratory
P.O. Box 808, L-627, Livermore, California 94551

What This Is

Lawrence Livermore National Laboratory (LLNL) Experimental Test Site (Site 300) Compliance Monitoring Report for Waste Discharge Requirements (WDR) Order No. R5-2008-0148 Annual/Second Semester Report 2010

1. Driver, purpose, and required content

This required monitoring report presents results of wastewater and ground water analyses permitted by WDR R5-2008-0148 that was adopted in September 2008. This report meets the semiannual reporting requirements and monitoring summary required in the WDR Monitoring and Reporting Program (MRP) which was adopted in September 2008, and revised December 1, 2009 and began effective beginning the first quarter 2010. The revised MRP terms and conditions have been implemented in this report. The monitoring networks covered under the terms and conditions of this Permit include the sewage evaporation pond and percolation pond, cooling tower discharges to percolation pits and septic systems, mechanical equipment discharges to percolation pits, and other low-threat discharges located at Site 300. This report summarizes first and second semester monitoring data for a combined annual report for 2010.

2. Issues and commitments made in the document

Data are presented in tabular form to indicate compliance with the terms and conditions of the MRP. Monitoring data show all first and second semester 2010 analytical results for discharges from the prescribed monitoring networks were in compliance with WDR conditions. This annual/second semester report summarizes the 2010 activities associated with all monitoring networks and also includes: 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.

This report is required to be prepared under the supervision of a California Professional Geologist or Professional Engineer and must be signed by the professional. Details of all sampling activities, including field-sampling logs, ground water contour maps, and details of well construction are provided. All permit and MRP conditions were met.

3. Due date

This report is due at the Central Valley Regional Water Quality Control Board on **March 1, 2010,** to satisfy the requirements of No. R5-2008-0148.

4. Technical reviewers

This document was sent for technical review to Leslie Ferry, Chris Campbell, Suzie Chamberlain, and Karen Folks. The comments received were incorporated.

5. Name and phone number of who to contact with questions

If you have questions about this document, please contact Rick Blake at 2-9910.

Certification

Lawrence Livermore National Laboratory (LLNL)
Experimental Test Site (Site 300)
Compliance Monitoring Report for
Waste Discharge Requirements (WDR) Order No. R5-2008-0148

Annual/Second Semester Report 2010

The undersigned certify that the information contained in this report is true and correct to the best of our knowledge.

2/3/11

Richard G. Blake, Environmental Analyst
Water, Air, Monitoring & Analysis Group

Date

2/4/11

Chris Campbell, Water Resources Team Leader
Water, Air, Monitoring & Analysis Group

Date

WAMA11-020/AI11-012 – BS/RB:rtd

Certification

Lawrence Livermore National Laboratory (LLNL)
Experimental Test Site (Site 300)
Compliance Monitoring Report for
Waste Discharge Requirements (WDR) Order No. R5-2008-0148

Annual/Second Semester Report 2010

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Gretchen Gallegos

Gretchen Gallegos, Group Leader
Water, Air, Monitoring & Analysis Division

2/9/11
Date

WAMA11-020/AI11-012 – BS/RB:rtd

ENVIRONMENT, SAFETY & HEALTH
Environmental Functional Area
Water, Air, Monitoring & Analysis Group

Action Item(s) ES&H # ___________ EFA # AI11-012	Due: 3/1/11	Document ID # WAMA11-020

LLNL Experimental Test Site 300, Annual/Second Semester 2010 Compliance Monitoring Report for Waste Discharge Requirements R5-2008-0148
Document Name

Ms. Kathryn Dominic, Central Valley Regional Water Quality Control Board
Submitted To

February 28, 2010
Processing Due Date

Signature	Date Signed
R Blake Rick Blake, Environmental Scientist	2/3/11 Date Signed
Chris Campbell, Environmental Scientist	2/4/11 Date Signed
Gretchen Gallegos Gretchen Gallegos, Group Leader	2/9/11 Date Signed
Ray Chin, S-300 P.E. Maintenance & Operations	2/11/11 Date Signed
Leslie Ferry Leslie Ferry, S-300 Restoration Project Leader (ERD)	2/14/11 Date Signed
John E. Scott John E. Scott, S-300 Site Manager	2/16/11 Date Signed

Document to be signed by: Bruce Schultz, Environmental Functional Area Manager

*****Please do NOT forward to the next person*****
Contact Rosie Depue @ 4-6505 for pick-up/coordination. Thank you.

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