

STATEMENT OF BASIS

Applicant: City of Clark
Permit Number: SD0021539
Contact Person: Larry Dreher, Mayor
120 N. Commercial Street
Clark, SD 57225-1524
Phone: (605) 532-3512
Permit Type: Minor Municipal - Renewal

DESCRIPTION

The city of Clark operates a wastewater treatment facility located east of the city in the Southeast ¼ of the Northwest ¼ of Section 7, Township 116 North, Range 57 West, in Clark County, South Dakota (Latitude 44.872411°, Longitude -97.725674°, Navigational Quality GPS).

The wastewater treatment facility consists of a gravity flow collection system aided by three area lift stations and a main lift station, with an average design flow of 0.25 million gallons per day (MGD). Wastewater flows through a comminutor and Parshall Flume before the main lift station pumps it to the oxidation ditch. Wastewater from the oxidation ditch enters the clarifier before being discharged through a ¾-mile discharge line to the receiving stream. Solids from the clarifier are either returned to the oxidation ditch or are pumped to the sludge holding tank. The biosolids are land applied, which is covered under permit SDL021539.

This wastewater treatment facility serves a population of 1,139 persons (2010 census), with no known industrial users contributing flow to the system.

RECEIVING WATERS

Any discharge from this facility will enter an unnamed tributary and flow about two miles to an unnamed wetland. This wetland is adjacent to Antelope Lake and Indian Springs Lake. During normal flows, the wetland flows to Indian Springs Lake and receives some water from Antelope Lake. During wet years, the wetland discharges to both lakes.

The unnamed tributary is classified by the South Dakota Surface Water Quality Standards (SDSWQS), Administrative Rules of South Dakota (ARSD), Section 74:51:03:01 for the following beneficial uses:

- (9) Fish and wildlife propagation, recreation, and stock watering waters; and
- (10) Irrigation waters.

The unnamed wetland is classified by the SDSWQS, ARSD, Section 74:51:02:01 for the following beneficial use:

- (9) Fish and wildlife propagation, recreation and stock watering waters.

Antelope Lake and Indian Springs Lake are currently classified by the SDSWQS, ARSD, Section 74:51:02:01 for the following beneficial use:

- (9) Fish and wildlife propagation, recreation, and stock watering waters.

Since the receiving water bodies have the minimum fishery beneficial use classification of (9), the SDSWQS (ARSD Section 74:51:01:02.01) require that an analysis of the receiving waters be conducted to determine whether the waterbody deserves a higher beneficial use designation. The South Dakota Department of Environment and Natural Resources (SDDENR) has conducted an analysis for the tributary, wetland, Antelope Lake, and Indian Springs Lake. SDDENR is proposing to keep the tributary and wetland with their current classifications. However, SDDENR is proposing to classify both Antelope Lake and Indian Springs Lake as warmwater semipermanent fishable lakes. The decision to reclassify these lakes is based on the water depth of each lake and because SDDENR found fish during each site visit.

The Administrative Rules of South Dakota (Section 74:51:01:27) do not allow discharges to reach classified lakes. The proposed permit will include a schedule for the city to evaluate its options to discharging to either lake and provide the city time to complete any necessary upgrades.

ANTIDEGRADATION

SDDENR has fulfilled the antidegradation review requirements for this permit. In accordance with South Dakota's Antidegradation Implementation Procedure and the SDSWQS, no further review is required. The results of SDDENR's review are included in Attachment 1.

MONITORING DATA

The city of Clark has been submitting Discharge Monitoring Reports (DMRs) as required under the current permit. As shown in Attachment 2, since 2003 this facility has had two violations of Biochemical Oxygen Demand (BOD₅), nine violations of BOD₅ removal percentage, five violations of Total Suspended Solids (TSS), and two violations of TSS removal percentage. These violations seem to be isolated incidences and do not reflect the overall treatment performance of this facility. In addition, this proposed permit contains a construction schedule requiring the facility to eliminate its discharge to these lakes. No future violations are expected.

INSPECTIONS

Personnel from SDDENR conducted a *Compliance Inspection* of the Clark wastewater treatment facility on August 17, 2011. The following requirements and corrective actions were made at the time of the inspection:

| COMMENTS | REQUIRED CORRECTIVE ACTIONS |
|--|---|
| <p>The operator reported that sewer has backed up into a home when a manhole collapsed. This incident was not reported to the department.</p> | <p>All discharges and/or overflows, including sewer back-ups and bypasses, must be monitored, reported, and sampled according to the requirements in your SWD permit.</p> |
| <p>The city of Clark has experienced several effluent violations since the last inspection. The following effluent violations have occurred:</p> <ol style="list-style-type: none"> 1. March 2009: <ul style="list-style-type: none"> • Maximum 7-day average and 30-day average effluent violations for Total Suspended Solids (TSS). • Percent removal violation for Five-Day Biochemical Oxygen Demand (BOD₅) and TSS. 2. July 2010: Percent removal violation for BOD₅. 3. April 2011: Percent removal violations for BOD₅ and TSS. 4. June 2011: Percent removal violation for TSS. | <p>These violations are not acceptable and can lead to enforcement actions which can include fines and penalties. The city should look into modifications of its operation to ensure adequate treatment of the wastewater.</p> |
| <p>The city owns and uses a pH meter that does not meet DENR’s specifications. The pH meter is only capable of one point calibration and only reads to one decimal point.</p> | <p>Page 6 of your city’s SWD permit states that pH must be measured using a “.pH meter capable of simultaneous calibration to two points on the pH scale that bracket the expected pH and are approximately three standard units apart. The pH meter must read to 0.01 standard units...”</p> <p>The city must have access to a pH meter capable of two-point calibration and that can read to two decimal places.</p> |

| COMMENTS | REQUIRED CORRECTIVE ACTIONS |
|---|--|
| <p>The operator is recording inspections of the facility as required by Section 1.4 of the permit. However, the time of the inspections is not recorded and the inspections are not recorded in a bound notebook.</p> | <p>All facility inspections conducted by city personnel must be documented in a bound notebook to be reviewed by SDDENR personnel when an inspection occurs. At a minimum, the notebook shall include the following:</p> <ol style="list-style-type: none"> 1. Date and time of the inspection; 2. Name of the inspector(s); 3. The facility's discharge status; 4. Identification of operational problems and/or maintenance problems; 5. Recommendations, as appropriate, to remedy identified problems; 6. A brief description of any actions taken with regard to problems identified; and 7. Other information, as appropriate. <p>The inspection notebook is a condition of the SWD permit.</p> |
| <p>The June 2011 DMR was reviewed it was found that the city is reporting the average pH as the minimum pH.</p> | <p>More care should be taken when calculating averages. If you need assistance with filling out your DMRs, please contact DENR at (605) 773-3351.</p> |
| <p>The facility does not have an effluent flow measuring device at the wastewater treatment facility.</p> <p><i>This was mentioned in the previous inspection report.</i></p> | <p>The city is required to report flow rate on its DMRs. The city should consider getting an effluent flow measurement device in order to verify effluent flow rates.</p> |
| <p>The operator did not know how screenings were being disposed of from the lift stations, as the lift station maintenance contractor disposes of the screenings.</p> | <p>The operator should ensure that screenings are disposed of properly. Screenings removed from the lift station wet well basket must be disposed of at a permitted landfill in order to eliminate the public health hazards associated with the debris. In some cases, on-site disposal of the screenings is allowed. Contact this department for further information about on-site disposal of screenings.</p> |

The following comments and recommendations were also made during the inspection:

| COMMENTS | RECOMMENDED CORRECTIVE ACTIONS |
|--|--|
| <p>Emergency procedures have not been established in the case of a major storm event, a sewer main break, or a chemical release into the sewer system.</p> <p><i>This was mentioned in the previous inspection report.</i></p> | <p>The city may wish to consider establishing written emergency procedures to ensure city staff is prepared to address emergencies that may arise during the operation of the wastewater collection and treatment system.</p> |
| <p>Operator did not have Material Safety Data Sheets (MSDS) available for the chemicals that are used at the facility.</p> | <p>The city may wish to obtain MSDS for chemicals used at the facility. These sheets provide useful information if there is a spill or if an employee comes into contact with the chemical. MSDSs should be kept in an easily accessible place and the location should be known by all facility employees.</p> |

EFFLUENT LIMITS

Outfall 001 – Any discharge from the clarifier to the unnamed tributary (Latitude 44.862575°, Longitude -97.725325° - Navigational Quality GPS).

Interim Effluent Limits

Effective immediately and lasting until **March 30, 2017**, the permittee shall comply with the effluent limits specified below. These limits are based on the Secondary Treatment Standards (ARSD Section 74:52:06:03), the SDSWQS, Best Professional Judgment (BPJ), and current permit limits.

1. The five-day Biochemical Oxygen Demand (BOD₅) concentration shall not exceed 30 mg/L (30-day average) or 45 mg/L (7-day average). These limits are based on the Secondary Treatment Standards.
2. The Total Suspended Solids (TSS) concentration shall not exceed 30 mg/L (30-day average) or 45 mg/L (7-day average). These limits are based on the Secondary Treatment Standards.
3. Percent removal requirements (TSS, BOD₅ limit): In addition to the concentration limit on TSS and BOD₅ indicated above, the arithmetic mean of the total suspended solids and five-day biochemical oxygen demand concentration for effluent samples collected in a period of thirty consecutive days shall not exceed fifteen percent of the arithmetic mean of the concentration for influent samples collected at approximately the same times

during the same period (85% removal). These limits are based on the Secondary Treatment Standards.

4. The pH shall not be less than 6.0 standard units or greater than 9.0 standard units in any single analysis and/or measurement. These limits are based on the Secondary Treatment Standards.

Note: SDDENR specifies that pH analyses are to be conducted within 15 minutes of sample collection with a pH meter. Therefore, the permittee must have the ability to conduct onsite pH analyses. The pH meter used must be capable of simultaneous calibration to two points on the pH scale that bracket the expected pH and are approximately three standard units apart. The pH meter must read to 0.01 standard units and be equipped with temperature compensation adjustment. Readings shall be reported to the nearest 0.1 standard units.

4. No chemicals, such as chlorine, shall be used without prior written permission. This limit is based on BPJ.

Effluent water temperature (°C), flow rate (MGD), total flow (million gallons), influent BOD₅, and influent TSS shall be monitored, but will not have a limit.

Final Effluent Limits

Effective **March 31, 2017** and lasting through the life of the permit, there shall be **no discharge** from this facility.

Effluent water temperature (°C), flow rate (MGD), total flow (million gallons), total phosphorus (mg/L), ammonia (mg/L), and *Escherichia coli* (number/100 mL), BOD₅, and TSS shall be monitored, but will not have a limit.

SELF MONITORING REQUIREMENTS

As a minimum, upon the effective date of this permit, the following parameters shall be monitored at the frequency and with the type of measurement indicated; samples or measurements shall be representative of the volume and nature of the monitored discharge.

Interim Monitoring Requirements

Effective immediately and lasting until **March 30, 2017**, all authorized discharges, sanitary sewer overflows, and emergency discharges shall be monitored for the following parameters at the frequency and with the type of measurement indicated. Knowingly discharging or failing to report a discharge within a reasonable time from the permittee first learning of a discharge could subject the permittee to penalties as provided under the South Dakota Water Pollution Control Act. Effluent monitoring results shall be summarized for each month and recorded on separate DMRs to be submitted to SDDENR on a **monthly** basis. If no discharge occurs during a month, it shall be stated as such on the DMR.

| Effluent Characteristic | Frequency | Reporting Values¹ | Sample Type¹ |
|---|-----------------------------------|--------------------------------------|--------------------------------|
| Total Flow, million gallons | Monthly | Monthly Total | Calculate |
| Flow Rate, MGD | Once Every Two Weeks ² | Daily Maximum; 30-Day Average | Continuous |
| pH, standard units | Once Every Two Weeks ² | Daily Minimum; Daily Maximum | Instantaneous ³ |
| Water Temperature, °C | Once Every Two Weeks ² | Daily Maximum; 30-Day Average | Instantaneous ⁴ |
| Five-Day Biochemical Oxygen Demand (BOD ₅), mg/L (influent) | Once Every Two Weeks ² | 30-Day Average | Grab |
| Five-Day Biochemical Oxygen Demand (BOD ₅), mg/L (effluent) | Once Every Two Weeks ² | Max 7-Day Average; 30-Day Average | Grab |
| Percent Removal - Biochemical Oxygen Demand (BOD) | Monthly | 30-Day Average | Calculate |
| Total Suspended Solids (TSS), mg/L (influent) | Once Every Two Weeks ² | 30-Day Average | Grab |
| Total Suspended Solids (TSS), mg/L (effluent) | Once Every Two Weeks ² | Max 7-Day Average; 30-Day Average | Grab |
| Percent Removal - Total Suspended Solids (TSS) | Monthly | 30-Day Average | Calculate |

¹ See Definitions.

² A minimum of one sample shall be taken every other week, with a minimum number of two (2) samples per calendar month. All samples collected during the 7-day or 30-day period shall be used in determining the averages. The permittee always has the option of collecting additional samples if appropriate.

³ pH shall be taken within 15 minutes of sample collection with a pH meter. The pH meter must be capable of simultaneous calibration to two points on the pH scale that bracket the expected pH and are approximately three standard units apart. The pH meter must read to 0.01 standard units and be equipped with temperature compensation adjustment. Readings shall be reported to the nearest 0.1 standard units.

⁴ The water temperature of the effluent shall be taken as a field measurement. Measurement shall be made with a mercury-filled, or dial type thermometer, or a thermistor. Readings shall be reported to the nearest whole degree Celsius.

Final Monitoring Requirements

Effective **March 31, 2017**, and lasting through the life of the permit, there shall be **no discharge** from the city of Clark's wastewater treatment facility to the unnamed tributary. Promptly upon

discovery of an emergency bypass, sanitary sewer overflow, or other discharge, the discharge shall be monitored as shown below. Knowingly discharging or failing to report a discharge within a reasonable time from the permittee first learning of a discharge could subject the permittee to penalties as provided under the South Dakota Water Pollution Control Act.

| Effluent Characteristic | Frequency | Reporting Values ¹ | Sample Type ¹ |
|--|---|-------------------------------|----------------------------|
| Flow Rate, MGD | At Least Three Per Discharge ² | Actual Value | Continuous |
| pH, standard units | At Least Three Per Discharge ² | Actual Value | Instantaneous ³ |
| Water Temperature, °C | At Least Three Per Discharge ² | Actual Value | Instantaneous ⁴ |
| Five-Day Biochemical Oxygen Demand (BOD ₅), mg/L | At Least Three Per Discharge ² | Actual Value | Grab |
| Total Suspended Solids (TSS), mg/L | At Least Three Per Discharge ² | Actual Value | Grab |
| <i>Escherichia coli</i> (number/100 mL) ⁵ | At Least Three Per Discharge ² | Actual Value | Grab |
| Total Phosphorus, mg/L | Monthly | Actual Value | Grab |

¹ See Definitions.

² A minimum of three samples shall be taken during any discharge. A sample shall be taken at the beginning, middle, and end of the discharge if the discharge is less than one week in duration. If a single, continuous discharge is greater than one week in duration, three samples shall be taken the first week and one each following week. All of the samples collected during the 7-day or 30-day period are to be used in determining the averages. The permittee always has the option of collecting additional samples if appropriate.

³ The pH shall be taken within 15 minutes of sample collection with a pH meter. The pH meter must be capable of simultaneous calibration to two points on the pH scale that bracket the expected pH and are approximately three standard units apart. The pH meter must read to 0.01 standard units and be equipped with temperature compensation adjustment. Readings shall be reported to the nearest 0.1 standard units.

⁴ The water temperature of the effluent shall be taken as a field measurement. Measurement shall be made with a mercury-filled, or dial type thermometer, or a thermistor. Readings shall be reported to the nearest whole degree Celsius.

⁵ **Effective March 31, 2017 and lasting through the life of the permit, *E. coli* levels shall be monitored in the discharge. Samples are to be collected at the same time as BOD₅, TSS, etc.**

Monitoring shall consist of **five inspections per week** of the facility to verify that proper operation and maintenance procedures are being practiced. The lift stations shall be inspected on at least a **weekly** basis, although **daily** inspections are recommended. Documentation of each of

these visits shall be kept in a notebook to be reviewed by SDDENR or EPA personnel when an inspection occurs.

CONSTRUCTION SCHEDULE

In accordance with SDSWQS, ARSD Sections 74:51:01:28, 74:52:03:22, 74:52:03:23, and 74:52:03:24, and SDDENR is proposing to reclassify the facility's receiving waters as a warmwater semipermanent fish life propagation lake, a compliance schedule shall be incorporated into this permit. The permittee shall achieve compliance with the following schedule:

1. The city shall conduct a study to determine the steps they will take to either move the outfall to a different location or to operate as a total retention facility. The study shall be submitted to SDDENR by **April 1, 2013**.
2. Submit plans and specifications for any recommended construction to SDDENR for review and approval by **October 1, 2013**. The plans and specifications must be developed by a Professional Engineer, licensed to practice in South Dakota. If the city's engineer determines construction is not necessary, the engineer shall submit a letter to SDDENR on the city's behalf detailing the rationale for this decision and any steps the city will be taking to eliminate the discharge by **October 1, 2013**.
3. Starting **April 1, 2014**, submit quarterly updates to SDDENR detailing the progress of construction.
4. Begin construction, if necessary, by **July 1, 2014**.
5. Complete construction by **March 31, 2017**.
6. The city shall cease its discharge to Antelope Lake and Indian Springs Lake by **April 1, 2017**.

The milestones must be completed by the date specified. The permittee shall submit to the Secretary a written notice of compliance or noncompliance with each milestone by the date specified above. If the permittee is not in compliance with the milestone, the notice shall include the cause of any noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

SLUDGE

SDDENR has issued Clark an individual Biosolids Management Permit (SDL021539). Therefore, the proposed Surface Water Discharge permit shall not contain sludge disposal requirements.

ENDANGERED SPECIES

This is a renewal of an existing permit. No listed endangered species are expected to be impacted by activities related to this permit. However, the table below shows the species that may be present in the city of Clark's geographic area.

| COUNTY | GROUP | SPECIES | CERTAINTY OF OCCURRENCE |
|--------|-------|-----------------------------|-------------------------|
| CLARK | BIRD | CRANE, WHOOPING | KNOWN |
| | FISH | SHINER, TOPEKA ¹ | POSSIBLE |

¹ Although Topeka Shiners have not been formally documented within Clark, Douglas, Grant, Jerauld, Kingsbury, Lake, Spink, or Yankton Counties, the species may still occur in these areas because they contain portions of known occupied Topeka Shiner streams and/or potentially occupied streams that exist within one or more of the three known inhabited watersheds in South Dakota: the James, Vermillion, and Big Sioux.

This information was accessible at the following US Fish and Wildlife Service website as of January 27, 2012: <http://www.fws.gov/southdakotafieldoffice/SpeciesByCounty.pdf>

PERMIT EXPIRATION

A five-year permit is recommended.

PERMIT CONTACT

Any questions pertaining to this statement of basis can be directed to Anthony Mueske, Engineer II for the Surface Water Quality Program, at (605) 773-3351.

January 27, 2012

ATTACHMENT 1

Antidegradation Review

Permit Type: **Minor Municipal - Renewal** Applicant: **City of Clark**

Date Received: **August 15, 2007** Permit #: **SD0021539**

County: **Clark** Legal Description: **SE¼ NW¼ Section 7, T116 N, R57 W**

Receiving Stream: **unnamed tributary** Classification: **9, 10**

If the discharge affects a downstream waterbody with a higher use classification, list its name and uses: **Antelope Lake and Indian Spring Lake are proposed to have: 4, 7, 8, 9**

APPLICABILITY

1. Is the permit or the stream segment exempt from the antidegradation review process under ARSD 74:51:01? Yes No If no, go to question #2. If yes, check those reasons why the review is not required:
 - Existing facility covered under a surface water discharge permit is operating at or below design flows and pollutant loadings;
 - *Existing effluent quality from a surface water discharge permitted facility is in compliance with all discharge permit limits;
 - *Existing surface water discharge permittee was discharging to the current stream segment prior to March 27, 1973, and the quality and quantity of the discharge has not degraded the water quality of that segment as it existed on March 27, 1973;
 - *The existing surface water discharge permittee, with DENR approval, has upgraded or built new wastewater treatment facilities between March 27, 1973, and July 1, 1988;
 - The existing surface water discharge permittee discharges to a receiving water assigned only the beneficial uses of (9) and (10); the discharge is not expected to contain toxic pollutants in concentrations that may cause an impact to the receiving stream; and DENR has documented that the stream cannot attain a higher use classification. This exemption does not apply to discharges that may cause impacts to downstream segments that are of higher quality;
 - Receiving water meets Tier 1 waters criteria. Any permitted discharge must meet water quality standards;
 - The permitted discharge will be authorized by a Section 404 Corps of Engineers Permit, will undergo a similar review process in the issuance of that permit, and will be issued a 401 certification by the department, indicating compliance with the state's antidegradation provisions; or
 - Other: This permit does not authorize an increase in effluent limits.

*An antidegradation review is not required where the proposal is to maintain or improve the existing effluent levels and conditions. Proposals for increased effluent levels, in these categories of activities are subject to review.

No further review required.

ANTIDEGRADATION REVIEW SUMMARY

2. The outcome of the review is:
- A formal antidegradation review was not required for reasons stated in this worksheet. Any permitted discharge must ensure water quality standards will not be violated.
 - The review has determined that degradation of water quality should not be allowed. Any permitted discharge would have to meet effluent limits or conditions that would not result in any degradation estimated through appropriate modeling techniques based on ambient water quality in the receiving stream, or pursue an alternative to discharging to the waterbody.
 - The review has determined that the discharge will cause an insignificant change in water quality in the receiving stream. The appropriate agency may proceed with permit issuance with the appropriate conditions to ensure water quality standards are met.
 - The review has determined, with public input, that the permitted discharge is allowed to discharge effluent at concentrations determined through a total maximum daily load (TMDL). The TMDL will determine the appropriate effluent limits based on the upstream ambient water quality and the water quality standard(s) of the receiving stream.
 - The review has determined that the discharge is allowed. However, the full assimilative capacity of the receiving stream cannot be used in developing the permit effluent limits or conditions. In this case, a TMDL must be completed based on the upstream ambient water quality and the assimilative capacity allowed by the antidegradation review.
 - Other: _____

3. Describe any other requirements to implement antidegradation or any special conditions That are required as a result of this antidegradation review: _____

Anthony Mueske
Reviewer

January 27, 2012
Date

Kelli D. Buscher, P.E.
Team Leader

January 27, 2012
Date

ATTACHMENT 2

Monitoring Data

| End Date | BOD ₅ 20 °C | | Chlorine, total residual | Flow rate | | pH | | Solids, total suspended | | Temperature, water °C | |
|------------|------------------------|-----------|--------------------------|------------|------------|-----------|-----------|-------------------------|------------|-----------------------|------------|
| | 30 Day Avg | Max 7d Av | | Daily Max | 30 Day Avg | Daily Max | Daily Min | Daily Max | 30 Day Avg | Max 7d Av | 30 Day Avg |
| Limit | 30 mg/L | 45 mg/L | 0.019 mg/L | N/A Mgal/d | N/A Mgal/d | 6 SU | 9 SU | 30 mg/L | 45 mg/L | N/A °C | N/A °C |
| 4/30/2003 | 9 | 9 | 0 | 0.16 | 0.19 | 7.04 | 7.69 | 3.5 | 5 | 10.28 | 10.56 |
| 5/31/2003 | 9 | 11 | 0 | 0.16 | 0.17 | 7.6 | 7.62 | 5.5 | 6 | 13.1 | 14.4 |
| 6/30/2003 | 41.5 | 75 | 0 | 15 | 16 | 7.54 | 7.61 | 47 | 88 | 17.2 | 18.3 |
| 7/31/2003 | 9 | 12 | 0 | 0.1 | 0.1 | 7.64 | 7.68 | 4.5 | 5 | 19.2 | 19.6 |
| 8/31/2003 | 6.5 | 8 | 0 | 0.08 | 0.08 | 7.61 | 7.8 | 4 | 5 | 22.2 | 22.8 |
| 9/30/2003 | 24.5 | 36 | 0 | 0.06 | 0.07 | 7.47 | 7.51 | 14.5 | 15 | 16.9 | 18.2 |
| 10/31/2003 | 11 | 12 | 0 | 0.05 | 0.06 | 7.51 | 7.71 | 11.5 | 15 | 19.1 | 19.7 |
| 11/30/2003 | 18 | 20 | 0 | 0.08 | 0.11 | 7.44 | 7.6 | 17 | 21 | 11.8 | 12.9 |
| 12/31/2003 | 24.5 | 26 | NR | 0.08 | 0.08 | 7.39 | 7.53 | 18.5 | 25 | 11.3 | 12.4 |
| 1/31/2004 | 14.5 | 17 | 0 | 0.08 | 0.1 | 7.57 | 7.62 | 11.5 | 13 | 9.1 | 10 |
| 2/29/2004 | 10.5 | 11 | 0 | 0.06 | 0.08 | 7.49 | 7.67 | 6 | 7 | 10.5 | 11.3 |
| 3/31/2004 | 4.5 | 5 | 0 | 0.08 | 0.08 | 7.62 | 7.7 | 2 | 3 | 11.8 | 11.8 |
| 4/30/2004 | 5 | 6 | 0 | 0.14 | 0.15 | 7.82 | 7.84 | 3.5 | 4 | 14.25 | 14.3 |
| 5/31/2004 | 8 | 8 | 80 | 0.16 | 0.17 | 7.73 | 7.75 | 3 | 4 | 16.3 | 16.5 |
| 6/30/2004 | 13 | 18 | 0 | 0.19 | 0.2 | 7.73 | 7.75 | 6.5 | 9 | 16.2 | 18 |
| 7/31/2004 | 5.5 | 6 | 0 | 0.17 | 0.18 | 7.81 | 7.83 | 5.5 | 7 | 20.15 | 22 |
| 8/31/2004 | 5.5 | 8 | 0 | 0.08 | 0.08 | 7.76 | 7.89 | 5 | 6 | 20.8 | 21.3 |
| 9/30/2004 | 10 | 6 | NR | 0.11 | 0.16 | 7.35 | 7.78 | 6 | 6 | 19.7 | 20.1 |
| 10/31/2004 | 6 | 7 | 0 | 0.21 | 0.21 | 7.75 | 7.91 | 4 | 5 | 17.3 | 17.7 |
| 11/30/2004 | 5.5 | 7 | 0 | 19 | 22 | 7.65 | 7.9 | 5.5 | 7 | 14.2 | 15.8 |
| 12/31/2004 | 12.5 | 14 | 0 | 14 | 14 | 7.81 | 7.83 | 12 | 15 | 11.1 | 13 |
| 1/31/2005 | 8 | 8 | 0 | 0.08 | 0.09 | 7.37 | 7.73 | 7 | 9 | 9.5 | 11 |
| 2/28/2005 | 10.5 | 11 | 0 | 0.09 | 0.09 | 7.7 | 8 | 7 | 7 | 12 | 13.3 |
| 3/31/2005 | 10.5 | 13 | 0 | 0.1 | 0.1 | 7.7 | 7.9 | 6.5 | 9 | 11.7 | 12.5 |
| 4/30/2005 | 5 | 6 | 0 | 0.12 | 0.14 | 7.67 | 7.78 | 3.5 | 4 | 14.3 | 14.9 |
| 5/31/2005 | 8 | 14 | 0 | 0.12 | 0.14 | 7.79 | 7.87 | 5 | 7 | 15.5 | 16.8 |
| 6/30/2005 | 8.5 | 14 | 0 | 0.28 | 0.32 | 7.84 | 7.88 | 7.5 | 14 | 20.3 | 23.5 |
| 7/31/2005 | 11.5 | 16 | 0 | 0.11 | 0.15 | 7.81 | 7.87 | 5.5 | 6 | 21.3 | 21.9 |
| 8/31/2005 | 5 | 5 | 0 | 0.08 | 0.09 | 7.79 | 7.85 | 5 | 6 | 22.1 | 23 |
| 9/30/2005 | 7 | 8 | 0 | 0.07 | 0.09 | 7.8 | 7.83 | 4.5 | 5 | 20.9 | 21.1 |
| 10/31/2005 | 10.5 | 16 | 0 | 0.08 | 0.09 | 7.76 | 7.76 | 4 | 4 | 16.5 | 16.7 |
| 11/30/2005 | 12 | 12 | 0 | 0.06 | 0.07 | 7.64 | 7.67 | 5.5 | 6 | 14 | 14.1 |
| 12/31/2005 | 6 | 10 | 0 | 0.09 | 0.1 | 7.67 | 7.78 | 9 | 11 | 10.3 | 10.6 |
| 1/31/2006 | 4 | 5 | 0 | 0.07 | 0.08 | 7.71 | 7.77 | 3.5 | 4 | 12.25 | 13.7 |
| 2/28/2006 | 10.5 | 12 | 0 | 0.09 | 0.09 | 7.7 | 7.7 | 5 | 6 | 10.8 | 11.1 |
| 3/31/2006 | 11.5 | 13 | 0 | 0.11 | 0.12 | 7.7 | 7.7 | 7 | 12 | 12.4 | 12.9 |
| 4/30/2006 | 12 | 15 | 0 | 0.19 | 0.21 | 7.87 | 7.91 | 2.5 | 3 | 13.7 | 13.9 |
| 5/31/2006 | 5 | 6 | 0 | 0.15 | 0.16 | 7.73 | 7.8 | 6 | 7 | 16.1 | 17.2 |
| 6/30/2006 | 6 | 8 | 0 | 0.1 | 0.1 | 7.71 | 7.79 | 2.5 | 3 | 20.35 | 20.6 |
| 7/31/2006 | 5.5 | 8 | 0 | 0.06 | 0.07 | 7.79 | 7.86 | 4 | 6 | 21.8 | 22.7 |
| 8/31/2006 | 8.5 | 9 | 0 | 0.05 | 0.06 | 7.78 | 7.8 | 10 | 11 | 22.9 | 23.2 |
| 9/30/2006 | 4 | 5 | 0 | 0.09 | 0.09 | 7.88 | 7.9 | 2.5 | 3 | 19.2 | 21.4 |
| 10/31/2006 | 4 | 5 | NR | 0.1 | 0.1 | 7.86 | 8 | 4.5 | 6 | 16.6 | 18 |
| 11/30/2006 | 13 | 16 | 0 | 0.09 | 0.1 | 7.85 | 7.88 | 3.5 | 5 | 15.7 | 16.9 |
| 12/31/2006 | 11.5 | 12 | 0 | 0.08 | 0.08 | 7.82 | 7.88 | 8.5 | 9 | 12 | 12.4 |

| End Date | BOD ₅ 20 °C | | Chlorine, total residual | Flow rate | | pH | | Solids, total suspended | | Temperature, water °C | |
|------------|------------------------|-----------|--------------------------|------------|------------|-----------|-----------|-------------------------|------------|-----------------------|------------|
| | 30 Day Avg | Max 7d Av | | Daily Max | 30 Day Avg | Daily Max | Daily Min | Daily Max | 30 Day Avg | Max 7d Av | 30 Day Avg |
| Limit | 30 mg/L | 45 mg/L | 0.019 mg/L | N/A Mgal/d | N/A Mgal/d | 6 SU | 9 SU | 30 mg/L | 45 mg/L | N/A °C | N/A °C |
| 1/31/2007 | 5.5 | 9 | 0 | 0.09 | 0.09 | 7.8 | 7.8 | 7 | 8 | 10.85 | 12.5 |
| 2/28/2007 | 12.5 | 18 | 0 | 0.1 | 0.17 | 7.6 | 8.1 | 7 | 9 | 10.05 | 10.9 |
| 3/31/2007 | 13 | 17.9 | 0 | 0.24 | 0.31 | 7.6 | 7.7 | 6 | 9 | 12.95 | 15.5 |
| 4/30/2007 | 13.5 | 15 | 0 | 0.28 | 0.37 | 7.5 | 7.9 | 3 | 3 | 12.1 | 13.4 |
| 5/31/2007 | 9.7 | 13 | 0 | 0.32 | 0.45 | 7.7 | 7.8 | 4.7 | 5 | 15.7 | 16.8 |
| 6/30/2007 | 9.5 | 14 | 0 | 0.32 | 0.45 | 7.6 | 7.6 | 4 | 5 | 18.6 | 19.8 |
| 7/31/2007 | 5 | 6 | 0 | 0.32 | 0.45 | 7.5 | 7.5 | 4.5 | 6 | 20.9 | 21.5 |
| 8/31/2007 | 4 | 5 | 0 | 0.18 | 0.33 | 7.5 | 7.7 | 4.3 | 5 | 21.6 | 23 |
| 9/30/2007 | 3.5 | 7 | 0 | 0.16 | 0.25 | 7.5 | 7.6 | 3 | 3 | 20.2 | 21.5 |
| 10/31/2007 | 3.5 | 4 | 0 | 0.14 | 0.19 | 7.5 | 7.6 | 5 | 6 | 19.55 | 19.6 |
| 11/30/2007 | 7.33 | 9 | 0 | 0.16 | 0.2 | 7.7 | 7.7 | 5.33 | 8 | 14.9 | 16.7 |
| 12/31/2007 | 7.5 | 8 | 0 | 0.11 | 0.11 | 7.8 | 8 | 8 | 8 | 12.1 | 13 |
| 1/31/2008 | 11.3 | 15 | 0 | 0.11 | 0.16 | 7.6 | 7.8 | 14 | 19 | 11.1 | 11.9 |
| 2/29/2008 | 8.5 | 9 | 0 | 0.12 | 0.19 | 7.6 | 7.6 | 6 | 9 | 12.7 | 13.4 |
| 3/31/2008 | 8.5 | 9 | 0 | 0.14 | 0.45 | 7.1 | 7.2 | 5 | 5 | 17.1 | 17.2 |
| 4/30/2008 | 8 | 10 | 0 | 0.21 | 0.3 | 7.1 | 7.6 | 5.5 | 7 | 18.8 | 20.2 |
| 5/31/2008 | 7.33 | 8 | 0 | 0.23 | 0.32 | 7.1 | 7.4 | 4 | 5 | 21.3 | 22.1 |
| 6/30/2008 | 6.5 | 8 | 0 | 0.23 | 0.3 | 7.5 | 7.6 | 4 | 5 | 17.9 | 18.2 |
| 7/31/2008 | 5.33 | 6 | 0 | 0.19 | 0.22 | 7.6 | 7.6 | 4.66 | 5 | 19.6 | 20.2 |
| 8/31/2008 | 4 | 4 | 0 | 0.15 | 0.16 | 7.7 | 7.8 | 5 | 5 | 21.6 | 22.9 |
| 9/30/2008 | 6 | 8 | 0 | 0.13 | 0.16 | 7.6 | 7.7 | 9 | 12 | 19.4 | 20.5 |
| 10/31/2008 | 7.7 | 9 | 0 | 0.2 | 0.29 | 7.4 | 7.7 | 7 | 8 | 18.7 | 22 |
| 11/30/2008 | 6.5 | 8 | 0 | 0.21 | 0.22 | 7.6 | 7.6 | 4.5 | 6 | 15.6 | 13.6 |
| 12/31/2008 | 6 | 6 | 0 | 0.19 | 0.19 | 7.7 | 8 | 8.5 | 9 | 11.4 | 12.7 |
| 1/31/2009 | 15.5 | 19 | 0 | 0.13 | 0.13 | 7.55 | 7.6 | 7 | 7 | 11.6 | 11.9 |
| 2/28/2009 | 14 | 18 | 0 | 0.16 | 0.2 | 7.6 | 7.6 | 7.5 | 9 | 10.1 | 10.2 |
| 3/31/2009 | 22 | 32 | 0 | 0.25 | 0.34 | 7.4 | 7.7 | 125.5 | 48 | 10.4 | 11.25 |
| 4/30/2009 | 8 | 8 | 0 | 0.27 | 0.28 | 7.8 | 7.8 | 5.5 | 8 | 12.35 | 13.2 |
| 5/31/2009 | 9 | 10 | 0 | 0.2 | 0.2 | 7.7 | 7.8 | 10 | 17 | 16.4 | 17.7 |
| 6/30/2009 | 10.5 | 11 | 0 | 0.21 | 0.23 | 7.75 | 7.8 | 7.5 | 11 | 17.9 | 19.4 |
| 7/31/2009 | 6 | 7 | 0 | 0.25 | 0.28 | 7.7 | 7.8 | 4.5 | 5 | 19.25 | 19.3 |
| 8/31/2009 | 8.5 | 11 | 0 | 0.16 | 0.18 | 7.75 | 7.8 | 7 | 9 | 19 | 19.1 |
| 9/30/2009 | 3.5 | 4 | 0 | 0.17 | 0.18 | 7.65 | 7.7 | 7 | 9 | 18.9 | 19.5 |
| 10/31/2009 | 4 | 4 | 0 | 0.34 | 0.34 | 7.7 | 7.7 | 4.5 | 6 | 16.1 | 16.8 |
| 11/30/2009 | 8 | 10 | 0 | 0.3 | 0.33 | 7.7 | 7.7 | 4.5 | 5 | 14.7 | 15.4 |
| 12/31/2009 | 5 | 5 | 0 | 0.25 | 0.26 | 7.85 | 7.9 | 3.5 | 4 | 11.2 | 12 |
| 1/31/2010 | 6 | 7 | 0 | 0.24 | 0.26 | 7.9 | 7.9 | 4 | 5 | 10.3 | 10.5 |
| 2/28/2010 | 8 | 8 | 0 | 0.22 | 0.23 | 7.5 | 7.7 | 8 | 11 | 10.8 | 11 |
| 3/31/2010 | 7 | 7 | 0 | 0.33 | 0.44 | 7.5 | 7.7 | 4 | 5 | 11.9 | 12 |
| 4/30/2010 | 9.5 | 10 | 0 | 0.3 | 0.34 | 7.65 | 7.7 | 6 | 9 | 13.8 | 14.3 |
| 5/31/2010 | 7.5 | 8 | 0 | 0.28 | 0.29 | 7.6 | 7.6 | 6 | 6 | 15.8 | 17.7 |
| 6/30/2010 | 5 | 5 | 0 | 0.32 | 0.38 | 7.6 | 7.6 | 6.5 | 10 | 18.1 | 18.6 |
| 7/31/2010 | 10.5 | 11 | 0 | 0.37 | 0.46 | 7.5 | 7.5 | 5.5 | 8 | 20 | 20.5 |
| 8/31/2010 | 6.5 | 9 | 0 | 0.24 | 0.25 | 7.6 | 7.6 | 6 | 7 | 20.5 | 20.8 |
| 9/30/2010 | 4.5 | 5 | 0 | 0.28 | 0.29 | 7.6 | 7.6 | 7 | 7 | 18.8 | 19.4 |
| 10/31/2010 | 6 | 10 | 0 | 0.25 | 0.25 | 7.6 | 7.6 | 6 | 6 | 17.7 | 18.4 |
| 11/30/2010 | 10 | 8 | 0 | 0.3 | 0.32 | 7.65 | 7.7 | 3 | 3 | 15.7 | 16.7 |

| End Date | BOD ₅ 20 °C | | Chlorine, total residual | Flow rate | | pH | | Solids, total suspended | | Temperature, water °C | |
|------------|------------------------|-----------|--------------------------|------------|------------|-----------|-----------|-------------------------|-----------|-----------------------|-----------|
| | 30 Day Avg | Max 7d Av | Daily Max | 30 Day Avg | Daily Max | Daily Min | Daily Max | 30 Day Avg | Max 7d Av | 30 Day Avg | Daily Max |
| Limit | 30 mg/L | 45 mg/L | 0.019 mg/L | N/A Mgal/d | N/A Mgal/d | 6 SU | 9 SU | 30 mg/L | 45 mg/L | N/A °C | N/A °C |
| 12/31/2010 | 8 | 10 | 0 | 0.26 | 0.26 | 7.7 | 7.8 | 6 | 7 | 11.5 | 11.6 |
| 01/31/2011 | 10 | 10 | 0 | 0.23 | 0.36 | 7.6 | 7.6 | 8 | 8 | 11.3 | 11.9 |
| 02/28/2011 | 8 | 9 | 0 | 0.39 | 0.45 | 7.3 | 7.42 | 4 | 4.5 | 7.6 | 12.6 |
| 03/31/2011 | 9.5 | 11 | 0 | 0.32 | 0.36 | 7.6 | 7.6 | 5 | 7 | 12.3 | 13.4 |
| 04/30/2011 | 6 | 6 | 0 | 0.45 | 0.45 | 7.6 | 7.65 | 6 | 9 | 12.7 | 13.2 |
| 05/31/2011 | 6 | 6 | 0 | 0.43 | 0.45 | 7.5 | 7.6 | 6 | 8 | 15.5 | 16.6 |
| 06/30/2011 | 6 | 6 | 0 | 0.41 | 0.45 | 7.35 | 7.6 | 8.5 | 12 | 18.1 | 20.5 |
| 07/31/2011 | 7.5 | 11 | 0 | 0.28 | 0.29 | 7.6 | 7.7 | 9 | 13 | 19.6 | 19.6 |
| 08/31/2011 | 3.5 | 4 | 0 | 0.27 | 0.34 | 7.6 | 7.8 | 5.5 | 6 | 19.4 | 20.2 |
| 09/30/2011 | 4.5 | 5 | 0 | 0.18 | 0.18 | 7.7 | 7.7 | 8 | 9 | 18.8 | 19.8 |

NR is Not Required. No sample was required for this parameter during the monitoring period.

Violations are bolded, shaded, and larger font.

| End Date | BOD ₅ , % removal | Solids, total suspended % removal |
|------------|------------------------------|-----------------------------------|
| | Mo Av Min | Mo Av Min |
| Limit | 85 % | 85 % |
| 4/30/2003 | 91 | 95.7 |
| 5/31/2003 | 92.9 | 93.8 |
| 6/30/2003 | 64.4 | 54.8 |
| 7/31/2003 | 95 | 96 |
| 8/31/2003 | 96 | 98 |
| 9/30/2003 | 92 | 98 |
| 10/31/2003 | 97.8 | 96.8 |
| 11/30/2003 | 94.7 | 93.5 |
| 12/31/2003 | 88 | 91 |
| 1/31/2004 | 93 | 94 |
| 2/29/2004 | 94 | 95 |
| 3/31/2004 | 97 | 96 |
| 4/30/2004 | 96 | 96 |
| 5/31/2004 | 95 | 99 |
| 6/30/2004 | 83 | 92 |
| 7/31/2004 | 96 | 96 |
| 8/31/2004 | 97 | 97 |
| 9/30/2004 | 97 | 97 |
| 10/31/2004 | 98 | 99 |
| 11/30/2004 | 95 | 94 |
| 12/31/2004 | 89 | 89 |
| 1/31/2005 | 95 | 94 |
| 2/28/2005 | 88 | 94 |
| 3/31/2005 | 92 | 95 |

| End Date | BOD ₅ , 20 °C | Solids, total suspended |
|------------|--------------------------|-------------------------|
| | 30da Avg | 30da Avg |
| Limit | N/A mg/L | N/A mg/L |
| 4/30/2003 | 100.5 | 82 |
| 5/31/2003 | 126 | 89 |
| 6/30/2003 | 116.5 | 104 |
| 7/31/2003 | 179.5 | 128.5 |
| 8/31/2003 | 180 | 220.5 |
| 9/30/2003 | 306.5 | 215.5 |
| 10/31/2003 | 510.5 | 367.5 |
| 11/30/2003 | 343.5 | 265 |
| 12/31/2003 | 209 | 207.5 |
| 1/31/2004 | 214.5 | 190 |
| 2/29/2004 | 194 | 135 |
| 3/31/2004 | 157.5 | 115 |
| 4/30/2004 | 131.5 | 97.5 |
| 5/31/2004 | 159 | 317 |
| 6/30/2004 | 78 | 83 |
| 7/31/2004 | 135.5 | 133.5 |
| 8/31/2004 | 181.5 | 152.5 |
| 9/30/2004 | 200.5 | 188.5 |
| 10/31/2004 | 339 | 640 |
| 11/30/2004 | 104 | 95 |
| 12/31/2004 | 120 | 107.5 |
| 1/31/2005 | 181 | 125 |
| 2/28/2005 | 93 | 127 |
| 3/31/2005 | 134.5 | 132.5 |

| End Date | BOD ₅ , % removal | Solids, total suspended % removal |
|------------|------------------------------|-----------------------------------|
| | Mo Av Min | Mo Av Min |
| Limit | 85 % | 85 % |
| 4/30/2005 | 96 | 97 |
| 5/31/2005 | 95 | 96 |
| 6/30/2005 | 91 | 98 |
| 7/31/2005 | 90 | 95 |
| 8/31/2005 | 98 | 97 |
| 9/30/2005 | 96 | 96 |
| 10/31/2005 | 95 | 98 |
| 11/30/2005 | 96 | 96 |
| 12/31/2005 | 96 | 93 |
| 1/31/2006 | 96 | 97 |
| 2/28/2006 | 93 | 95 |
| 3/31/2006 | 93 | 95 |
| 4/30/2006 | 84 | 96 |
| 5/31/2006 | 96 | 94 |
| 6/30/2006 | 97 | 97 |
| 7/31/2006 | 98 | 98 |
| 8/31/2006 | 95 | 95 |
| 9/30/2006 | 97 | 98 |
| 10/31/2006 | 98 | 96 |
| 11/30/2006 | 91 | 98 |
| 12/31/2006 | 93 | 92 |
| 1/31/2007 | 97 | 95 |
| 2/28/2007 | 94 | 96 |
| 3/31/2007 | 96 | 98 |
| 4/30/2007 | 80 | 96 |
| 5/31/2007 | 83 | 96 |
| 6/30/2007 | 81 | 90 |
| 7/31/2007 | 94 | 95 |
| 8/31/2007 | 95 | 94 |
| 9/30/2007 | 96 | 96 |
| 10/31/2007 | 95 | 90 |
| 11/30/2007 | 90 | 92 |
| 12/31/2007 | 97 | 94 |
| 1/31/2008 | 93 | 90 |
| 2/29/2008 | 94 | 94 |
| 3/31/2008 | 91 | 93 |
| 4/30/2008 | 90 | 92 |
| 5/31/2008 | 90 | 95 |
| 6/30/2008 | 94 | 94 |
| 7/31/2008 | 94 | 95 |
| 8/31/2008 | 96 | 94 |
| 9/30/2008 | 95 | 90 |
| 10/31/2008 | 94 | 94 |
| 11/30/2008 | 92 | 94 |
| 12/31/2008 | 95 | 92 |

| End Date | BOD ₅ , 20 °C | Solids, total suspended |
|------------|--------------------------|-------------------------|
| | 30da Avg | 30da Avg |
| Limit | N/A mg/L | N/A mg/L |
| 4/30/2005 | 135 | 104.5 |
| 5/31/2005 | 152.5 | 143 |
| 6/30/2005 | 100.5 | 107.5 |
| 7/31/2005 | 113.5 | 103 |
| 8/31/2005 | 228 | 175 |
| 9/30/2005 | 160 | 130 |
| 10/31/2005 | 230 | 219 |
| 11/30/2005 | 313.5 | 126.5 |
| 12/31/2005 | 157 | 133.5 |
| 1/31/2006 | 106.7 | 127.5 |
| 2/28/2006 | 146 | 106.5 |
| 3/31/2006 | 160.5 | 153.5 |
| 4/30/2006 | 75 | 64.5 |
| 5/31/2006 | 130 | 98 |
| 6/30/2006 | 152 | 102 |
| 7/31/2006 | 245 | 177.5 |
| 8/31/2006 | 190 | 203.5 |
| 9/30/2006 | 121.5 | 119 |
| 10/31/2006 | 175 | 126.5 |
| 11/30/2006 | 149 | 205 |
| 12/31/2006 | 168 | 113.5 |
| 1/31/2007 | 180 | 150 |
| 2/28/2007 | 199 | 161.5 |
| 3/31/2007 | 258 | 271.5 |
| 4/30/2007 | 70.5 | 78 |
| 5/31/2007 | 57 | 112 |
| 6/30/2007 | 51 | 39 |
| 7/31/2007 | 83.5 | 95 |
| 8/31/2007 | 79.6 | 68.3 |
| 9/30/2007 | 95.5 | 69 |
| 10/31/2007 | 68.5 | 60.5 |
| 11/30/2007 | 74 | 68 |
| 12/31/2007 | 265 | 125.5 |
| 1/31/2008 | 157 | 132 |
| 2/29/2008 | 130 | 98 |
| 3/31/2008 | 93 | 71 |
| 4/30/2008 | 79 | 66 |
| 5/31/2008 | 73.3 | 76.6 |
| 6/30/2008 | 119.5 | 148 |
| 7/31/2008 | 96.33 | 88.33 |
| 8/31/2008 | 103 | 81 |
| 9/30/2008 | 129 | 97 |
| 10/31/2008 | 142 | 118.66 |
| 11/30/2008 | 78 | 81 |
| 12/31/2008 | 134 | 104 |

| End Date | BOD ₅ , % removal | Solids, total suspended % removal |
|------------|---------------------------------|--|
| | Mo Av Min | Mo Av Min |
| Limit | 85 % | 85 % |
| 1/31/2009 | 90 | 95 |
| 2/28/2009 | 89 | 92 |
| 3/31/2009 | 72 | 72 |
| 4/30/2009 | 86 | 95 |
| 5/31/2009 | 88 | 86 |
| 6/30/2009 | 87 | 89 |
| 7/31/2009 | 94 | 93 |
| 8/31/2009 | 92 | 90 |
| 9/30/2009 | 94 | 90 |
| 10/31/2009 | 95 | 95 |
| 11/30/2009 | 93 | 97 |
| 12/31/2009 | 96 | 97 |
| 1/31/2010 | 94 | 94 |
| 2/28/2010 | 92 | 93 |
| 3/31/2010 | 91 | 97 |
| 4/30/2010 | 87 | 92 |
| 5/31/2010 | 94 | 94 |
| 6/30/2010 | 93 | 85 |
| 7/31/2010 | 77 | 93 |
| 8/31/2010 | 92 | 92 |
| 9/30/2010 | 93 | 93 |
| 10/31/2010 | 90 | 94 |
| 11/30/2010 | 92 | 93 |
| 12/31/2010 | 93 | 90 |
| 01/31/2011 | 93 | 94 |
| 02/28/2011 | 90 | 93 |
| 03/31/2011 | 90 | 91 |
| 04/30/2011 | 82 | 78 |
| 05/31/2011 | 90 | 88 |
| 06/30/2011 | 87 | 80 |
| 07/31/2011 | 87 | 82 |
| 08/31/2011 | 94 | 92 |
| 09/30/2011 | 97 | 94 |

| End Date | BOD ₅ , 20 °C | Solids, total suspended |
|------------|--------------------------------|-------------------------------|
| | 30da Avg | 30da Avg |
| Limit | N/A mg/L | N/A mg/L |
| 1/31/2009 | 151.5 | 140 |
| 2/28/2009 | 134 | 94 |
| 3/31/2009 | 78.5 | 90 |
| 4/30/2009 | 56.5 | 111 |
| 5/31/2009 | 76 | 71 |
| 6/30/2009 | 82 | 67 |
| 7/31/2009 | 99.5 | 70 |
| 8/31/2009 | 121.5 | 72 |
| 9/30/2009 | 62.5 | 74 |
| 10/31/2009 | 88 | 96 |
| 11/30/2009 | 112.5 | 139 |
| 12/31/2009 | 120 | 104 |
| 1/31/2010 | 96 | 84.5 |
| 2/28/2010 | 97.5 | 8 |
| 3/31/2010 | 80.5 | 157.5 |
| 4/30/2010 | 71 | 72.5 |
| 5/31/2010 | 122.5 | 106.5 |
| 6/30/2010 | 71.5 | 44.5 |
| 7/31/2010 | 45.5 | 72 |
| 8/31/2010 | 80 | 715 |
| 9/30/2010 | 70 | 97 |
| 10/31/2010 | 65.5 | 102 |
| 11/30/2010 | 78.5 | 42 |
| 12/31/2010 | 111.5 | 63.5 |
| 01/31/2011 | 138 | 144 |
| 02/28/2011 | 79 | 65 |
| 03/31/2011 | 97.5 | 55 |
| 04/30/2011 | 33.5 | 28 |
| 05/31/2011 | 59.5 | 49 |
| 06/30/2011 | 47.5 | 43 |
| 07/31/2011 | 58 | 50 |
| 08/31/2011 | 58.5 | 36.5 |
| 09/30/2011 | 166 | 148 |

NR is Not Required. No sample was required for this parameter during the monitoring period.
Violations are bolded, shaded, and larger font.