

BOARD OF COUNTY COMMISSIONERS
SARPY COUNTY, NEBRASKA

RESOLUTION APPROVING AND AUTHORIZING CHAIRPERSON TO SIGN THE 2008 ANNUAL NPDES
PERMIT REPORT

WHEREAS, pursuant to Neb. Rev. Stat. §23-104(6) (Reissue 2007), the County has the power to do all acts in relation to the concerns of the County necessary to the exercise of its corporate powers; and,

WHEREAS, pursuant to Neb. Rev. Stat. §23-103 (Reissue 2007), the powers of the County as a body are exercised by the County Board; and,

WHEREAS, the County of Sarpy has obtained an NPDES-MS4 Permit concerning storm water runoff in the Papiro Creek Basin pursuant to the National Pollutant Discharge Elimination System, Phase II storm water regulations; and,

WHEREAS, the permit requires the approval and submission of an Annual Report and attachments to the Nebraska Department of Environmental Quality.

NOW, THEREFORE, BE IT RESOLVED, By the Sarpy County Board of Commissioners that the 2008 Annual Report as required by the National Pollutant Discharge Elimination System, Phase II storm water regulations, as presented to this Board, is hereby approved.

BE IT FURTHER RESOLVED that the Chair, Joni Jones, is hereby designated the Cognizant Official for the purposes of said documents, and the Chair and Clerk are hereby authorized to sign said documents on behalf of Sarpy County, Nebraska to take such actions as may be necessary under the terms of said Permit.

DATED this 31st day of March, 2009.

MOVED by Rusty Hike, seconded by Pat Thomas, that the above Resolution be adopted. Carried.

YEAS:
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

NAYS:
none

ABSENT:
none

ABSTAIN:
none

Attest:

SEAL



Approved as to form:

[Signature]
County Clerk

[Signature]
County Attorney

Sarpy County Board of Commissioners

1210 GOLDEN GATE DRIVE
PAPILLION, NE 68046-2895
593-4155
www.sarpy.com

ADMINISTRATOR
Mark Wayne

DEPUTY ADMINISTRATOR
Scott Bovick

FISCAL ADMIN./PURCHASING AGT.
Brian Hanson



COMMISSIONERS

Rusty Hike

District 1

Joni Jones

District 2

Tom Richards

District 3

Pat Thomas

District 4

Rich Jansen

District 5

MEMO

To: Sarpy County Board

From: Carrie Davis-Sedlacek

Re: NPDES Permit 2008 Annual Report

On March 31, 2009 the County Board will be asked to approve and authorize the chairperson to sign the attached 2008 NPDES Permit Annual Report.

Do not hesitate to contact Mark Wayne if you have comments or questions.

March 26, 2009

Carrie Davis-Sedlacek
593-1565
carrie@sarpy.com

cc: Mark Wayne
Scott Bovick
Rebecca Horner
Deb Houghtaling

NPDES PERMIT FOR SMALL MUNICIPAL STORM SEWER
DISCHARGES TO WATERS OF THE STATE LOCATED IN
DOUGLAS, SARPY, AND WASHINGTON COUNTIES OF
NEBRASKA

NPDES PERMIT NUMBER NER200000

2008 ANNUAL REPORT

Submitted by:

Sarpy County, Nebraska
1210 Golden Gate Drive
Papillion, NE.
68046

April 1, 2009

Report of Certification

"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 gathered and evaluated 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 known violations. See 18 U.S.C. 1001 and 33 U.S.C 1319, and Neb. Rev. Stat. 81-1508 thru 81-1508.02."



Signature of Authorized Representative or Cognizant Official

March 31, 2009

Date

Joni Jones

Printed Name

Chair, County Board of Commissioners

Title

A. BACKGROUND

On August 1, 2004 the Nebraska Department of Environmental Quality (NDEQ) issued a National Pollutant Discharge Elimination System (NPDES) permit (NER200000) for Small Municipal Storm Sewer discharges to waters of the state located in Douglas, Sarpy, and Washington Counties of Nebraska. The Phase II communities of the Papillion Creek Watershed Partnership (PCWP) currently authorized to discharge municipal storm water under this permit are Bellevue, Boys and Girls Town, Douglas County, Elkhorn, LaVista, Papillion, Ralston and Sarpy County.

The NPDES permit requires that the co-permittees submit by April 1 each year an Annual Report documenting the status of all the general programs and individual tasks contained in the Storm Water Management Plan (SWMP). This document is being submitted by (insert jurisdiction name) to meet that requirement and covers the period from January 1-December 31, 2008 of permit year four/five.

B. COOPERATIVE AGREEMENT

The co-permittees entered into an inter-local agreement in 2001 that established a framework for meeting the permit requirements. A continuation agreement was approved in 2004. That agreement identifies the lead organization and the participating partners for each SWMP element. The agreement also establishes a basis for cost-sharing to meet the Phase II permit requirements.

C. PERMITTEE COORDINATION

In 2001, the PCWP began as a planning committee and to assist the Phase II communities in addressing their permit application requirements. The focus of the continuation agreement reached in 2004 is on the implementation of the SWMP as incorporated in the general NPDES permit.

The PCWP has held monthly meetings since August 2001. The meetings help to coordinate activities, and identify needs consistent with the goals of the PCWP, and implement the NPDES permit's SWMP.

1. *Public Education and Outreach*

1.A. Create and distribute informational brochures on the proper disposal of household hazardous waste and the availability of the Household Hazardous Waste Facility. Year 2-5: Print and distribute brochures.

The Douglas-Sarpy County regional household hazardous waste (HHW) facility, UnderTheSink (UTS) opened in June 1, 2005. Brochures are available at the facility for distribution, and can be printed from the website www.underthesink.org. Brochures contain information about the site, materials accepted and not accepted, hours of operation, and alternative use products.

Keep Omaha Beautiful again assisted the PCWP with distribution of 10 different types of brochures and informational cards throughout 2008 about proper paint disposal, alternatives to HHW, and how to manage HHW in and around the home. They were present at events/meetings/booths where the cards and brochures were available. Informational stands at the point of purchase were placed in commercial outlets (home stores, hardware stores, nurseries, auto parts stores) throughout the region that displayed the brochures. Overall 7,950 brochures were printed and 3,709 were distributed in 2008.

This permit requirement has been met.

1.B. Provide information concerning best management practices at public educational events such as Earth Day. Year 1 through 3 develop materials and implementation plan. Year 4 through 5: Print and/or broadcast announcements.

KOB represented the PCWP at different events/meetings/ booths where they provided brochures and information. Numerous organizations and agencies assisted the PCWP in outreach efforts in 2008. Outreach events and meetings are listed in Attachment A.

The PCWP also makes best management practices information available through the PCWP website (www.papiopartnership.org).

This permit requirement has been met.

1.C. Issue public service announcements related to storm water protection on local TV, radio or print outlets. Ongoing all years.

Sixty six (66) public service announcements (PSAs) were broadcast on radio to promote stormwater protection and public events throughout the year and are listed in the following table:

Name	Date	Spot	Broadcaster	Media
Cigarette Butt Fairy / Litter Hotline	April		KXVO	TV Commercial
April Is	April	11	KFAB	Radio PSA
Cigarette Butts	May/June	5	KFAB	Radio PSA
OMAGRO	May/June	8	KFAB	Radio PSA
Illegal Oil	June	4	KFAB	Radio PSA
Players Club	June/July	14	KFAB	Radio PSA
Rosenblatt	July	4	KFAB	Radio PSA
Papio Watershed	September	8	KFAB	Radio PSA
Leaves Leaves Leaves	October	6	KFAB	Radio PSA
Rake Leaves	October	6	KFAB	Radio PSA
	10	66		

This permit requirement is on schedule for completion

1.D. Initiate a storm water drain-stenciling program to improve public awareness concerning illegal dumping. Develop Standard specifications which require stenciled or adhered markers be provided for new concrete storm drains. Year 2-5: Implement drain marking program.

A number of drain marking efforts are currently underway in the Papillion Creek Watershed. Keep Omaha Beautiful works with a number of volunteer groups and provides all the materials necessary to apply discs to inlets. The table below summarizes the inlet marking activities in 2008.

Location	# Bags of Trash	Grates Cleaned	Discs Placed	# Volunteers
Rogers Drive -- Papillion	0	2	2	1
Hawthorn, Lakeshore Woodcreek N			100	2
24th & Leavenworth Neighborhood		24	24	20
Deer Park BLVD & Surrounding Streets	5	100	100	1
Westside, 42nd & Bancroft, 40th & Vinton	2	50	200	3
Area surrounding South High School	40	42	42	30
3540 Pine and Cross streets	9	100	100	4
90th & Dodge to Pacific (east/west) 90th to 86th Western to Blondo, 90th to 84th Burt to Western	6	80	80	40
36th & Parker to 36th & Franklin, 32nd & Franklin to 33rd AVE & Decatur		60	200	60
109th to I-680 N of Center to Shirley	7	56	52	5
48th & William ST	3.5	20	20	4
Grace Young Park - 60th & Military	1	4	4	1

Total 73.5 538 924 171

This permit requirement has been met.

2. Public Participation and Involvement

2.A. Create and operate a system for handling phone calls and email for storm water-related concerns in the Watershed (general information, complaints, reports of illegal dumping, etc.). Year 2-5: Maintain stormwater hotline and website email notification.

The City of Omaha continues to maintain a phone line, 444-3908, for handling stormwater calls. Clerks are available during regular business hours to handle calls for the City and the PCWP. The clerks answering the hotline are required to complete a form when answering the calls so that all the required information is collected. The form is tied to a database that stores all calls received and provide a mechanism for tracking calls. A representative from the City of Omaha will use the information stored in the database to direct the call to the appropriate Partnership representative or their designee.

There were no illicit discharge complaints received via the Papio Partnership website (www.papiopartnership.org) or the hotline in 2008. There were a total of 39 (29 mud/dirt in the street and 10 dust) complaints logged into the erosion website (www.PCWPErosionControl.org). Only 8 were directly related to a permitted construction site and all 8 were deemed valid complaints. Of the total mud/dirt in the street complaints 12 were deemed as valid complaints and 6 of the dust complaints were valid. Complaints are entered into the erosion website by city staff who indicate if the complaint came in via the phone, email, letter, or in person. The public can also log a complaint using the website.

This permit requirement has been met.

2.B. Participate in organizing and holding public meetings on Papillion Creek Watershed Plan updates and to solicit feedback for management policies, proposed BMPs, financial reports, etc. Organize and hold a public meeting each year.

The PCWP held monthly meetings in 2008 and the minutes for all of those meetings are available on the PCWP website at www.papiopartnership.org.

In 2007, and as a follow up to the Stormwater Management Policies drafted in 2006, the PCWP contracted with HDR Engineering, Inc. for a "Phase IV" study that would compare and contrast the potential implementation of Low Impact Development (LID) BMPs, regional detention, and/or a combination approach, to address stormwater quality and stormwater quantity issues in the watershed. The findings of the Phase IV study were completed in 2008 and public forums associated with the study results were held in February and March of 2008. Study results were used to amend the original Stormwater Policies (per permit requirement 5.C) that had been originally considered in 2006. A copy of the revised Stormwater Policies are included as Attachment B.

This permit requirement has been met.

2.C. Implement a Stream Clean Up Day. Identify stream segments in need of cleanup and request volunteers from the local area, public groups, and representatives from local area business and developments. Year 2-5: Conduct one clean-up day each year.

Area / Organization	Date	Volunteers	Hours	Litter
Lake Zorinsky	9/13/2008	8	4	8
CH2M Hill	9/13/2008	8	1.5	9
Principal Financial	9/13/2008	10	2	10
Marriott Reservation	9/13/2008	20	2	20
Deb Yost Family	9/13/2008	3	2	3
TOTAL		49	11.5	50

The PCWP partnered with Keep Omaha Beautiful (KOB) to host a Stream Clean-Up Day on September 13, 2008. Volunteer groups collected litter along stretches of the Papillion Creek and its tributaries.

This permit requirement has been met.

2.D. Enhance the existing PCWP website so that the public is able to email comments or complaints, and complete surveys that solicit comments and suggestions on Watershed Planning. Year 2-5: Email form for comments and suggestions on website.

In 2007 the website was redesigned and made to be compliant with ADA requirements and to enhance the readability of the website and facilitate the public access to documents and other PCWP information. All of the previous website features, including but not limited to, the contact information for PCWP representatives (including links to the respective PCWP representatives websites) and the illegal dumping/illicit discharge report form, were retained. PCWP meeting minutes, upcoming meetings and outreach opportunities, PCWP permits, reports, and studies are also available on-line as well as general information about the PCWP and about watersheds and stormwater management in general. There is now an online form the public can complete if they have questions/comments regarding the stormwater management policies; an online form where the public can request a speaker to present PCWP information to their civic organization. Other enhancements were added by the web service provider. Beginning in July 2007 the website provider implemented statistical software to better track the number of website visitors. From July to December 2007 there were 627 unique visitors; 923 overall visits; 6132 pages viewed; and 9008 website hits. Website information for 2008 was not available at the time this report was submitted.

This permit requirement has been met.

3. Illicit Discharge Detection and Elimination

3.A. Dry-weather inspections of all known, major storm water outlets (i.e., those with diameters of 36" or greater). Inspections will include flow estimations, physical characteristics examinations and, if necessary to identify sources of pollutants, screening for additional pollutants. Inspect storm water outlets and those that discharge to lesser tributaries or other storm conduits in response to suspect conditions and/or complaints. Year 1 through 2 – Identify and initially inspect existing stormwater outfalls in named creeks within the permitted area. Year 3 through 5 – Investigate new or newly discovered stormwater outfalls in named creeks and report observations in the Annual Activity Report.

Outfalls were originally inspected in 2005. Follow up inspection was completed in 2008 and will continue on an annual basis with inspection results reported in the Annual Report.

This permit requirement is on schedule for completion.

3.B. Develop an ordinance to prohibit illicit non-storm water discharges accompanied by appropriate penalties and enforcement procedures. Year 2: Pass ordinance by end of year. Year 3 through 5: Implement and enforce ordinance.

A Stormwater Management Regulation was approved by the Sarpy County Board and addresses the illicit discharge component. A copy of the Stormwater Management Regulation is enclosed as Attachment D.

This permit requirement has been met.

3.C. Develop a sewer system map of major storm water outfalls and identify the names of respective receiving waters. Mapping will be GIS based. Years 1 and 2 – Complete mapping for existing stormwater outfalls in named creeks. Years 3 thru 5 – Maintain system for incremental new construction.

The sewer system map of major storm water outfalls is included as Appendix C.

This permit requirement is on schedule for completion.

3.D. Implement a BMP/water quality-tracking database (decision support system), including protocols for sharing resources within the Partnership and training staff. Ongoing all years.

As part of the PCWP's initial planning effort initiated in 2001, HDR Engineering, Inc. developed a BMP/water quality-tracking database for the PCWP. The Papio-Missouri River NRD will maintain the database and train interested PCWP members as to how to enter data and generate analytical/comparative reports. Data will be used to assist future BMP evaluations by providing information regarding cost per unit treated, and average annual maintenance costs.

This permit requirement is on schedule for completion.

3.E. Investigate and seek resolution concerning any dry weather discharges of potentially polluted wastewater sources by notifying the source that they must discontinue discharging, and initiate enforcement action consistent with adopted ordinance. Ongoing all years.

Dry weather discharges identified, as the outfalls are inspected (see 3.A above), will be investigated with respect to the source of the discharge. The Physical Characteristics Examination (PCE) will be completed as part of the inspection process and, if there is reason to believe that the discharge is allowable under the stormwater ordinance/regulation, the investigation will be terminated. If the PCE indicates that there may be an illicit connection, a more comprehensive investigation will be undertaken that may involve sampling the discharge, tracing the line upstream to identify potential sources, and questioning potential dischargers. If a potential source is identified, information will be provided regarding the impact to human health and the environment to resolve the problem. The proposed comprehensive stormwater ordinance/regulation will provide for enforcement action, when voluntary compliance cannot be achieved. When the ordinance/regulation is passed the resolution process will shift from education based to penalty based. Until the ordinance/regulation is passed, the NDEQ will be relied upon for necessary enforcement.

This permit requirement is on schedule for completion.

4. Construction Site Runoff Control

4.A. Develop and implement stormwater management and erosion control ordinance for construction sites down to 1 acre in size. Provisions will be included for design and specification review, for enforcement and penalties, for Erosion and Sediment Control requirements consistent with design criteria that meets the requirements of NDEQ's NPDES storm water permit for construction sites, and for waste disposal with respect to discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site. Year 2: Pass ordinance by end of year 2. Year 3 through 5: Implement and enforce ordinance.

A regulation was approved on December 9th, 2008 by the Sarpy County Board of Commissioners, a copy of the Stormwater Management Regulation is enclosed as Attachment D.. Sarpy County works closely with Omaha in the grading permit review process and site inspections.

This permit requirement has been met.

4.B. Participate in the implementation of a Contractor Certification Program by conducting annual instruction. Year 1 – 4. Provide one voluntary class per year.

The PCWP has partnered with the Douglas-Sarpy County Extension Office to host annually an Erosion Control Workshop. The meeting was held in February 2008 and 298 people attended the workshop.

This permit requirement has been met.

4.C. Develop and implement a construction site inspection program that included procedures for reporting and resolving deficiencies, notifying NDEQ of non-complying sites, and procedures for referral to NDEQ of non-complying sites that are not responding to local enforcement actions. Identify priority sites based on the

nature of the site in terms of size, topography, soil characteristics, receiving waters, and history. Implementation in years 3-5.

Grading permits are required for all developments in the Papillion Creek Watershed and are tracked electronically on the PCWP's web based system. Omaha inspectors will review weekly site inspection reports from the permittees, make periodic inspections to verify the permittee reports, notify the permittees when deficiencies are noted, and notify the permitting authority when enforcement is necessary. Priority sites are determined by the construction phase, with the initial site work being the highest priority. The goal of the construction site inspection program is to achieve voluntary compliance, but referrals will be made to NDEQ for non-complying sites not responding to local enforcement actions.

Violations processed in 2008 are referenced in Attachment E.

This permit requirement is on schedule for completion.

5.0 Post-Construction Runoff Control

5.A. Develop requirements for BMP Inspection and Maintenance in the storm water ordinance required in BMP #4.A.: Year 2: Pass ordinance by end of year 2. Year 3 through 5: Implement and enforce ordinance.

A regulation was approved on December 9th, 2008 by the Sarpy County Board of Commissioners. A copy of the Stormwater Management Regulation is enclosed as Attachment D.

This permit requirement has been met.

5.B. Implement procedures for post construction site inspection. Identify priority sites based on the nature of the site in terms of size, topography, soil characteristics, and receiving waters. Years 3 –5 Begin inspection activities.

Omaha has developed inspection forms for BMPs that are available to the PCWP members. Priority sites will be identified based on their proximity to a receiving water.

This permit requirement is on schedule for completion.

5.C. Develop and implement a Watershed Master Plan of strategies that include a combination of structural and/or non-structural BMPs that reduce the impact of urbanization on storm water run-off and improve water quality along with other needs, including green space, parks and recreation, urban planning, aesthetics, and public safety. Year 2: Amend comprehensive or master plan. Year 3 to 5 – Revise local ordinances and regulations to support master plan strategies and implement strategies.

Stormwater Management Policies were developed by the PCWP through a public process in 2005 and 2006. The Policies were adopted by most of the PCWP member partners.

Additional public input, the Stage IV study by the PCWP, and evaluation of options continued into 2008 as the PCWP sought consensus on overall stormwater management policies that will address both water quality and water quantity issues. An updated Stormwater Management Policy document was drafted and is included as Attachment B.

This permit requirement is on schedule for completion.

6. Pollution Prevention/Good Housekeeping for Municipal Operations

6.A. Manage vehicle maintenance facilities to comply with the No Exposure Status as identified using NPDES form 3510/11 on an annual basis. Ongoing all years.

NPDES forms 3510/11 for Sarpy County maintenance facilities have been submitted. Training for all Fleet Service mechanics is done annually.

This permit requirement is on schedule for completion.

6.B. Inspect storm sewer conduits, channels and catch basins and remove sediment and debris as needed to maintain an efficient system within permitted area. Transport said materials to the municipal solid waste landfill for disposal. Ongoing all years.

Type	Number Inspected (est.)	Number Cleaned (est.)
Conduits	69	0
Channels	257	6
Catch Basins	169	13
Storm drain inlets	1,458	43
Erosion Inspections	301	
Erosion Maintenance	112	
Flared End Sections	79	0
Outlets	4	0
Manholes	139	0
Headwalls	17	0
Junction Boxes	7	0
2008 expenditures (all types -- inspections & cleaning)	\$620,960	

Sarpy County requested information on these activities from Sanitary and Improvement Districts (S&IDs) within Sarpy County. The information contained in the table above represents the data from those S&IDs that responded to our information request.

This permit requirement is on schedule for completion.

6.C. *Develop and implement a training program for employees to prevent pollutant runoff from municipal operations. This would include training for general operation and maintenance activities, schedules, inspections, controls on the discharge of pollutants from streets, proper maintenance of salt/ sand storage areas, waste cleanup and handling from transfer stations, etc. Identify responsible departments and personnel for training on operation and maintenance program. Year 2-5: Conduct training annually for employees.*

Staff from the Sarpy County Highway, Fleet Services, and Maintenance Departments attended a stormwater training seminar in Douglas County on December 18, 2008.

This permit requirement has been met.

6.D. *The applicant will conduct street cleaning on an ongoing basis, so as to reach all paved streets at least once every other year. Ongoing all years.*

Miles of Streets Cleaned in 2008 (approximate)	2008 Expenditure	2009 Budget (proposed)
160.15	\$86,227	\$81,420

Sarpy County requested information on street sweeping from Sanitary and Improvement Districts (S&IDs). The information contained in the table above represents the data from those S&IDs that responded to the information request.

This permit requirement is on schedule for completion.

7. Storm Water Monitoring Plan

7.A. *Participate with in-stream monitoring of named creeks in the Papillion Creek Watershed. Pollutant parameters to be analyzed will include BOD5, TSS, ammonia-nitrogen, nitrate-nitrogen, total nitrogen, soluble and total phosphorous, turbidity, pH, fecal coliform, E. coli, and Physical Characteristics Examinations. Year 2-5: Conduct monitoring.*

The City of Omaha has taken the lead role for the stormwater monitoring elements 7.A and 7.B. The City sampled four sites in the Papillion Creek Watershed in conjunction with NDEQ's Basin Rotation Monitoring Program. Samples were collected one day a week from May through September 2007. Samples were analyzed for the following parameters: fecal coliform, e coli, nitrate / nitrite nitrogen, Kjeldahl nitrogen, nitrite nitrogen, ammonia, total nitrogen, total phosphorus, dissolved phosphorus, pH, COD, BOD, TSS, TDS, temperature, DO, specific conductivity, and turbidity. Quality control/quality assurance measures were followed as described in the Sampling and Analysis Plan (submitted to NDEQ April 1, 2005). Sample results are presented in Attachment F. Data qualifiers follow NDEQ's recommended practices.

The data collected serves as a base for comparing data collected in subsequent years when we are able to evaluate how concentrations are changing over time. With only a limited set of data at this time, it is difficult to draw any conclusions regarding the implementation of the Stormwater Management Program's impact on water quality.

However, it is apparent that the water entering the urbanized area does not meet water quality standards for bacteria and BMP's designed to improve water quality may need to be implemented beyond the urban area into the upper reaches of the watershed.

This permit requirement has been met.

7.B. Participate in wet weather monitoring of a set of stormwater outfalls identified in coordination with the water quality-monitoring program established under BMP 7.A above. Composite samples that represent the peak flush of discharge will be obtained for all parameters, except pH and the bacterial counts for which grab samples are required. Flow estimations as well as the intensity, timing and duration of any recent storm water events will be recorded. The in-stream water quality testing results, as well as watershed characteristics, will be considered in selecting the monitoring site(s). Also BMP assessment monitoring may be substituted in lieu of storm sewer outfall testing. Year 2-5: Conduct monitoring.

The MS4 permit identified three wet weather monitoring sites: Pacific Meadows, Westwood Heights, and 86 and I streets. Wet weather monitoring was completed in early spring, late spring & summer, and fall 2007. Attachment F identifies the dates samples were collected, analytical results, and estimated pollutant masses.

This permit requirement has been met.

8. Fiscal Expenditures

Pursuant to the Papillion Creek Watershed Partnership Interlocal Cooperation Agreement, Sarpy County contributed \$55,000 to the Partnership Watershed Fund in the current fiscal year (July 2008 through June 2009) and will contribute \$55,000 in the upcoming fiscal year (July 2009 through June 2010). The Fund pays for the current cost of planning and implementation of Sarpy County's NPDES Phase II Stormwater Permit requirements.

The Sarpy County Administrator is responsible for implementing Sarpy County's NPDES Phase II Stormwater Permit requirements and the majority of expenditures, including the aforementioned annual payments to the PCWP, are budgeted by the department.

The Sarpy County Administrator has the responsibility of coordinating Sarpy County activities to implement the SWMP and ensure the County meets its NPDES Phase II Stormwater permit requirements. The estimated administrative expenditures for 2008 and anticipated 2009 budget amounts are listed below. These include an estimated amount for administrative expenditures from other departments, including, but not limited to, the County Board of Commissioners and County Administration, County Attorney's Office, County Engineer's Office, Purchasing Department, and County Clerk's Office.

1.

Administrative	2008 Expenditures	2009 Planned
Partnership Meetings/Coordination	\$2,940	\$4,200
Planning, review, and preparation	\$130,023	\$149,526
Public Education/Outreach	\$2,165	\$2,500
Annual Administrative Total	\$135,128	\$156,226

2. Operation and Maintenance

The 2009 estimated budget figures were not available at the time of preparation of this annual report. It is anticipated that these budget figures will be included in future reports.

Operation and Maintenance	2008 Expenditures	2009 Budgeted
Sediment/Erosion Control Program	\$0	
Material Disposal	\$0	
Creek/Open Channel Maintenance	\$0	
Street Sweeping	\$1,122.99	
Street /Right of Way Cleaning	\$5,500.61	
Unimproved Street Maintenance	\$125,897.78	
Public Education/Outreach	\$0	
MS4 Planning	\$0	
Bridge Maintenance and Rehab	\$0	
Sewer Maintenance	\$0	
Annual O&M Total	\$132,521.38	

9. Changes in MS4 Area

Changes in the Sarpy County MS4 area due to annexations by the City of Gretna, the City of La Vista, and the City of Papillion are listed in Attachment G.

List of Attachments

Attachment A. Listing of public outreach events. Per SWMP item 1.B.

Attachment B. PCWP Stormwater Management Policies. Per SWMP items 2.B. and 5.C.

Attachment C. Sewer system map of major storm water outfalls. Per SWMP item 3.C.

Attachment D. Stormwater Management Regulation (for Sarpy County). Per SWMP items 3.B., 4.A., and 5.A.

Attachment E. Violations processed in 2008. Per SWMP item 4.C.

Attachment F. In-stream monitoring of named creeks. Per SWMP item 7.A.

Attachment G. Wet weather stormwater outfall monitoring. Per SWMP 7.B.

Attachment H. Changes in MS4 area.

Attachment F

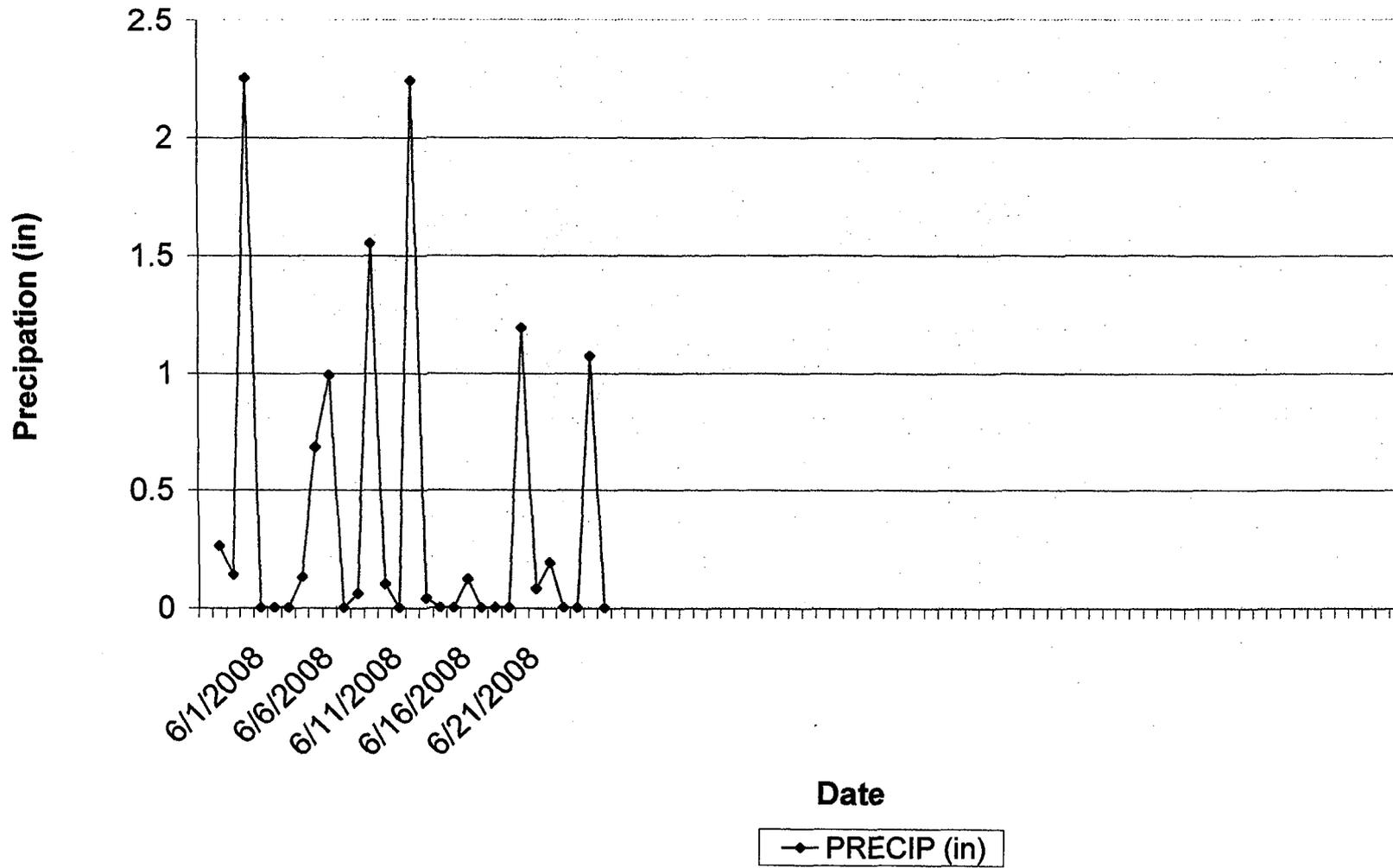
Data source: NOAA's National Weather Service Forecast Office for Omaha/Valley, NE
<http://www.crh.noaa.gov/oax/include/local-f6.php?id=OMA&mo=MAY&yr=2007>

Precipitation 2008

DATE	PRECIP (in)	5/28/2008	0.26	6/26/2008	0.48	7/25/2008	0
4/30/2008	0	5/29/2008	0.14	6/27/2008	0.57	7/26/2008	0
5/1/2008	0	5/30/2008	2.25	6/28/2008	0.02	7/27/2008	T
5/2/2008	0.32	5/31/2008	0	6/29/2008	0	7/28/2008	0
5/3/2008	T	6/1/2008	0	6/30/2008	0	7/29/2008	0.24
5/4/2008	0	6/2/2008	T	7/1/2008	0	7/30/2008	0
5/5/2008	0	6/3/2008	0.13	7/2/2008	0.43	7/31/2008	0
5/6/2008	0.2	6/4/2008	0.68	7/3/2008	0	8/1/2008	0
5/7/2008	0.01	6/5/2008	0.99	7/4/2008	0	8/2/2008	0
5/8/2008	0.01	6/6/2008	0	7/5/2008	T	8/3/2008	0
5/9/2008	0.16	6/7/2008	0.06	7/6/2008	0.01	8/4/2008	T
5/10/2008	0.76	6/8/2008	1.55	7/7/2008	0.18	8/5/2008	T
5/11/2008	0	6/9/2008	0.1	7/8/2008	0.19	8/6/2008	T
5/12/2008	0	6/10/2008	0	7/9/2008	0	8/7/2008	0
5/13/2008	0	6/11/2008	2.24	7/10/2008	0	8/8/2008	0
5/14/2008	0	6/12/2008	0.04	7/11/2008	0	8/9/2008	0
5/15/2008	0	6/13/2008	0	7/12/2008	0.07	8/10/2008	0.02
5/16/2008	0	6/14/2008	0	7/13/2008	0	8/11/2008	0
5/17/2008	0	6/15/2008	0.12	7/14/2008	0	8/12/2008	0.13
5/18/2008	0	6/16/2008	0	7/15/2008	1.06	8/13/2008	0
5/19/2008	0	6/17/2008	0	7/16/2008	0.07	8/14/2008	0
5/20/2008	0	6/18/2008	T	7/17/2008	0.19	8/15/2008	0
5/21/2008	0	6/19/2008	1.19	7/18/2008	0	8/16/2008	0
5/22/2008	0.27	6/20/2008	0.08	7/19/2008	0	8/17/2008	0
5/23/2008	1.066	6/21/2008	0.19	7/20/2008	T	8/18/2008	0
5/24/2008	0.29	6/22/2008	0	7/21/2008	T	8/19/2008	0
5/25/2008	0.1	6/23/2008	0	7/22/2008	0.19	8/20/2008	T
5/26/2008	0.02	6/24/2008	1.07	7/23/2008	0.02	8/21/2008	T
5/27/2008	0.52	6/25/2008	0	7/24/2008	0.39	8/22/2008	0

Bold = Sampling Day

Summer '08 Precipitation (in/day)



36 & Hwy 370 Site I

(red indicates that the sample result was less than half the detection limit and the result shown is one half the detection limit, red background indicates probe error)

	5/14/2008	5/21/2008	5/28/2008	6/4/2008	6/11/2008	6/18/2008	6/25/2008	7/2/2008	7/9/2008	7/16/2008	7/23/2008	7/30/2008	8/6/2008	8/13/2007	8/20/2008	
Fecal Coliform	1770	128	30000	6800	11000	510	63000	700	7000	89000	2200	800	830	3100	320	SM 9222 D MDL = 1 cfu / 100 mL
E-Coli	2419.6	2419.6	527.1	2419.6	2419.6	712	2419.6	334.8	2909.0	13307.8	1205.1	926.9	407.0	1846.8		Current Method MDL = 1 CFU / 100 mL
Nitrate / Nitrite Nitrogen (mg/L)	0.03	2.6	0.9	2	2.2	2.2	1.2	3.0	2.3	1.3	0.04	3.8	3.4	2.4	3.4	EPA 353.2 MDL = 0.2 mg/L
Kjeldahl Nitrogen (mg/L)	<0.5	<0.5	1.78	1.08	1.63	1.6	3.09	0.84	0.9	5.60	1	1.1	0.6	1	1.1	EPA 351.3 MDL = 0.5 mg/L
Nitrite Nitrogen (mg/L)	2.6	0.05	0.03	0.05	0.04	0.05	0.06	0.04	0.05	0.07	2.3	0.05	0.03	0.04	0.03	SM 4500-NO ₂ -B MDL = 0.02 mg/L
Ammonia Nitrogen (mg/L)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	SM 4500-NH ₃ -D MDL = 1 mg/L
Total Phosphorus (mg/L)	0.18	0.14	1.20	0.4	0.68	0.44	1.40	0.33	0.30	3.33	0.29	0.29	0.27	0.31	0.26	SM 4500 P F MDL = 0.05 mg/L
Dissolved Phosphorus (mg/L)	0.08	0.08	0.1	0.06	0.08	0.08	0.07	0.09	0.09	0.11	0.11	0.16	0.17	0.15	0.14	SM 4500 P F MDL = 0.05 mg/L
pH (lab)	7.9	7.81	7.67	7.93	7.92	7.82	7.68	7.91	7.68	7.4	7.93	7.87	7.92	7.68	8.07	SM 4500-H ⁺ B
COD (mg/L)	26	<20	146	44	86	52	128	42	77	231	45	28	<20	45	20	SM 5220 D MDL = 20 mg/L
BOD (mg/L)	<2	<2	8	3	4	<2	5	3	3	8	2	<2	<2	<2	<2	SM 5210 B MDL = 2 mg/L
TSS (mg/L)	37	19	2073	220	580	337	813	165	206	3500	186	76	40	120	54	SM 2840 D MDL = 1 mg/L
TDS (mg/L)	417	527	350	416	370	402	470	392	321	440	464	525	485	383	475	SM 2840 C MDL = 1 mg/L
Temp(F)	12.13	15.36	12.98	21.1	20.59	21.46	20.68							21.31	20.35	Field Measurement
DO (mg/L)	15.23	8.08	16.14	15.58	12.66	9.59	12.29							9.25	13.37	Field Measurement
SpCond (µS/cm)	0.702	0.724	0.27	0.813	0.52	0.54	0.357							0.56	0.746	Field Measurement
Turb (NTUs)	22.98	0.075		146.175	215.65	337.3	754.5							90.73	33.8	Field Measurement
pH	7.78	7.78	7.33	7.53	7.57	7.64	7.31							7.54	7.78	Field Measurement

120 & Giles Rd Site Q																	
(red indicates that the sample result was less than half the detection limit and the result shown is one half the detection limit, red background indicates probe error)																	
	5/14/2008	5/21/2008	5/28/2008	6/4/2008	6/11/2008	6/18/2008	6/25/2008	7/2/2008	7/9/2008	7/16/2008	7/23/2008	7/30/2008	8/6/2007	8/13/2007	8/20/2008		
Fecal Coliform	1000	160	28000	600	1250	290	8000	700	7000	20000.0	1490	1590	420	2500	520	SM 9222 D MDL = 1 cfu / 100 mL	
E-Coli	2419.6	1011.2	2419.6	2419.6	2419.6	1254.9	3262.8	2604.4	4884.0	7,226.3	793.1	1,116.0	929.6	2,664.3	-	Colliert Method MDL = 1 cfu / 100 mL	
Nitrate / Nitrite Nitrogen (mg/L)	<0.02	3.9	0.9	1.4	1.6	1.5	1.4	2.0	1.9	1.2	1.3	3	2.9	0.04	2.6	EPA 363.2 MDL = 0.2 mg/L	
Kjeldahl Nitrogen (mg/L)	<0.5	0.53	2.4	0.95	1.2	1.28	1.75	0.85	0.8	8.8	1.1	0.8	<5	0.9	0.6	EPA 361.3 MDL = 0.5 mg/L	
Nitrite Nitrogen (mg/L)	1.9	0.09	0.03	0.03	0.04	0.03	0.04	0.03	0.04	0.04	0.03	0.05	0.05	0.04	0.04	SM 4500-NO ₂ -B MDL = 0.02 mg/L	
Ammonia Nitrogen (mg/L)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	SM 4500-NH ₃ -D MDL = 1 mg/L	
Total Phosphorus (mg/L)	0.14	0.22	1.9	0.27	0.31	0.28	0.28	0.26	0.3	2.35	0.2	1.39	0.22	0.29	0.21	SM 4500 P F MDL = 0.05 mg/L	
Dissoved Phosphorus (mg/L)	0.07	0.13	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.11	0.09	0.13	0.15	0.17	0.12	SM 4500 P F MDL = 0.05 mg/L	
pH (lab)	7.92	7.86	7.72	7.91	8.07	8.14	7.77	8.00	7.71	7.52	7.82	7.86	7.78	7.7	7.94	SM 4500-H ⁺ B	
COD (mg/L)	33	<20	154	39	40	54	69	25	64	167	35	134	<20	25	<20	SM 5220 D MDL = 20 mg/L	
BOD (mg/L)	<2	<2	6	2	3	3	4	2	3	6	2	<2	<2	<2	<2	SM 5210 B MDL = 2 mg/L	
TSS (mg/L)	22	6	1292	120	102	129	334	70	129	2192	97	38	13	46	14	SM 2540 D MDL = 1 mg/L	
TDS (mg/L)	546	614	392	368	344	400	374	441	303	780	364	575	451	373	494	SM 2540 C MDL = 1 mg/L	
Temp(F)	11.88	13.99	12.52	21.17	21.25	22.27	21.13								19.74	18.04	Field Measurement
DO (mg/L)	16.77	8.77	17.2	15.16	12.82	9.9	11.93								9.29	14.04	Field Measurement
SpCond (µS/cm)	0.671	0.698	0.253	0.584	0.543	0.36	0.4								0.569	0.703	Field Measurement
Turb (NTUs)	15.75	1.8		64.83	63.63	124.93	253.7								49.78	14.4	Field Measurement
pH	7.74	7.63	7.38	7.72	7.69	7.94	7.4								7.52	7.65	Field Measurement

120 & Harrison Street Site J																
(red indicates that the sample result was less than half the detection limit and the result shown is one half the detection limit, red background indicates probe error)																
	5/14/2008	5/21/2008	5/28/2008	6/4/2008	6/11/2008	6/18/2008	6/25/2008	7/2/2008	7/9/2008	7/16/2008	7/23/2008	7/30/2008	8/6/2008	8/13/2008	8/20/2008	
Fecal Coliform	70.00	260	17000	4700	3000	390	18000	500	2000	47000	1520	11900	620	1300	400	SM 9222 D MDL = 1 cfu / 100 mL
E-Coli	417.1	675.2	483.5	2419.6	597.4	178.5	8164.0	25997.0	1012.5	13307.8	649.6	3036.8	371.0	1650.2	0.0	Colliert Method MDL = 1 cfu / 100 mL
Nitrate / Nitrite Nitrogen (mg/L)	3.30	2.1	1.4	0.04	2.7	2.9	1.3	3.8	2.8	1.4	2.8	2.7	4.6	2.8	4.4	EPA 353.2 MDL = 0.2 mg/L
Kjeldahl Nitrogen (mg/L)	<0.5	<0.5	1.2	0.9	1.28	0.94	1.98	0.84	0.80	5.2	0.9	0.8	0.6	1.1	0.8	EPA 351.3 MDL = 0.5 mg/L
Nitrite Nitrogen (mg/L)	0.04	0.05	0.03	0.04	0.04	0.07	0.06	0.06	0.05	0.04	0.05	0.07	0.05	0.04	0.05	SM 4500-NO ₂ ⁻ B MDL = 0.02 mg/L
Ammonia Nitrogen (mg/L)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	SM 4500-NH ₃ D MDL = 1 mg/L
Total Phosphorus (mg/L)	0.18	0.13	0.96	0.29	0.51	0.31	0.79	0.29	0.2	3.9	0.23	0.24	0.32	0.34	0.34	SM 4500 P F MDL = 0.05 mg/L
Dissolved Phosphorus (mg/L)	0.09	0.07	0.08	0.09	0.07	0.19	0.05	0.11	0.10	0.10	0.12	0.13	0.23	0.19	0.2	SM 4500 P F MDL = 0.05 mg/L
pH (lab)	7.97	7.74	7.67	7.84	7.94	7.81	7.78	7.96	7.83	7.49	7.84	7.7	7.73	7.67	0.34	SM 4500-H ⁺ B
COD (mg/L)	26.00	<20	96	34	42	32	69	52	37	205	30	38	<20	28	<20	SM 5220 D MDL = 20 mg/L
BOD (mg/L)	<2	<2	4	<2	4	<2	4	3	3	6	<2	2	<2	<2	<2	SM 5210 B MDL = 2 mg/L
TSS (mg/L)	8.00	12	744	102	316	166	616	80	56	3180	68	40	16	51	18	SM 2540 D MDL = 1 mg/L
TDS (mg/L)	589.00	556	317	436	366	548	410	366	356	710	336	384	463	437	512	SM 2540 C MDL = 1 mg/L
Temp(F)	12.28	14.9	12.86	21.11	20.72	21.26	21.09							21.36	19.83	Field Measurement
DO (mg/L)	15.56	7.93	16.67	15.13	39.1	10.13	11.39							8.44	12.72	Field Measurement
SpCond (µS/cm)	0.75	0.78	0.318	0.638	0.66	0.554	0.41							0.5995	0.782	Field Measurement
Turb (NTUs)	7.78	8.9		66.7	150.28	171.65	359.38							51.75	18.1	Field Measurement
pH	7.85	7.69	7.42	7.71	7.54	7.67	7.4							7.47	7.66	Field Measurement

168 & Hwy 36 Site E

(red indicates that the sample result was less than half the detection limit and the result shown is one half the detection limit, red background indicates probe error)

	5/14/2008	5/21/2008	5/28/2008	6/4/2008	6/11/2008	6/18/2008	6/25/2008	7/2/2008	7/9/2008	7/16/2008	7/23/2008	7/30/2008	8/6/2008	8/13/2008	8/20/2008	
Fecal Coliform	d	350	19000	1600	7000	1520	59000	1400	3000	14000	1670	1500	830	1230	1260	SM 9222 D MDL = 1 cfu / 100 mL
E-Coli	3385.8	1935	2419.6	2419.6	2419.6	1107.3	1114.3	1321.2	1855.3	5541.8	1299.3	3036.8	917.6	1036.9	0.0	Colliert Method MDL = 1 cfu / 100 mL
Nitrate / Nitrite Nitrogen (mg/L)	8.5	9.0	8.3	9.8	11.7	11.1	10.0	10.4	9.9	9.5	9.5	9.7	9.5	8.4	8	EPA 353.2 MDL = 0.2 mg/L
Kjeldahl Nitrogen (mg/L)	<0.5	1.00	1.17	1.0	1.72	1.5	1.37	0.85	0.50	5.80	1	1.7	0.7	1	0.9	EPA 351.3 MDL = 0.5 mg/L
Nitrite Nitrogen (mg/L)	0.04	0.08	0.08	0.08	0.05	0.05	0.08	0.08	0.08	0.08	0.08	0.14	0.07	0.08	0.05	SM 4500-NO ₂ B MDL = 0.02 mg/L
Ammonia Nitrogen (mg/L)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	SM 4500-NH ₃ D MDL = 1 mg/L
Total Phosphorus (mg/L)	0.29	0.33	0.58	0.58	0.83	0.44	0.52	0.46	0.4	0.61	0.38	0.58	0.38	0.33	0.33	SM 4500 P F MDL = 0.05 mg/L
Dissolved Phosphorus (mg/L)	0.10	0.15	0.18	0.15	0.14	0.14	0.17	0.15	0.15	0.12	0.17	0.22	0.18	0.16	0.12	SM 4500 P F MDL = 0.05 mg/L
pH (lab)	8.03	8.03	7.94	7.98	8.01	7.92	7.88	8.07	8.02	8.03	7.96	8.09	8.07	8.1	7.94	SM 4500-H ⁺ B
COD (mg/L)	<20	<20	51	41	40	54	27	40	35	61	43	45	23	33	35	SM 5220 D MDL = 20 mg/L
BOD (mg/L)	<2	<2	<2	<2	<2	<2	2	<2	<2	2	<2	2	4	<2	<2	SM 5210 B MDL = 2 mg/L
TSS (mg/L)	136	137.0	287.0	240.0	354.0	287	225	283	214	338.0	174	144	132	118	104	SM 2540 D MDL = 1 mg/L
TDS (mg/L)	479	620.0	487.0	564.0	512.0	715	490	504	508	578	480	576	532	435	444	SM 2540 C MDL = 1 mg/L
Temp (F)	10.35	11.87	11.11	18		15.2	16.15							19.81	17.77	Field Measurement
DO (mg/L)	17.98	9.79	18.85	18.01		12.82	13.7							10.59	15.77	Field Measurement
SpCond (µS/cm)	0.699	0.697	0.69	0.717		0.723	0.7							0.679	0.68	Field Measurement
Turb (NTUs)	68.125	78.37	81.58	182.37		232.1	112.58							85.63	88.35	Field Measurement
pH	8.01	7.89	7.94	7.83		7.87	7.83							8.02	8.025	Field Measurement

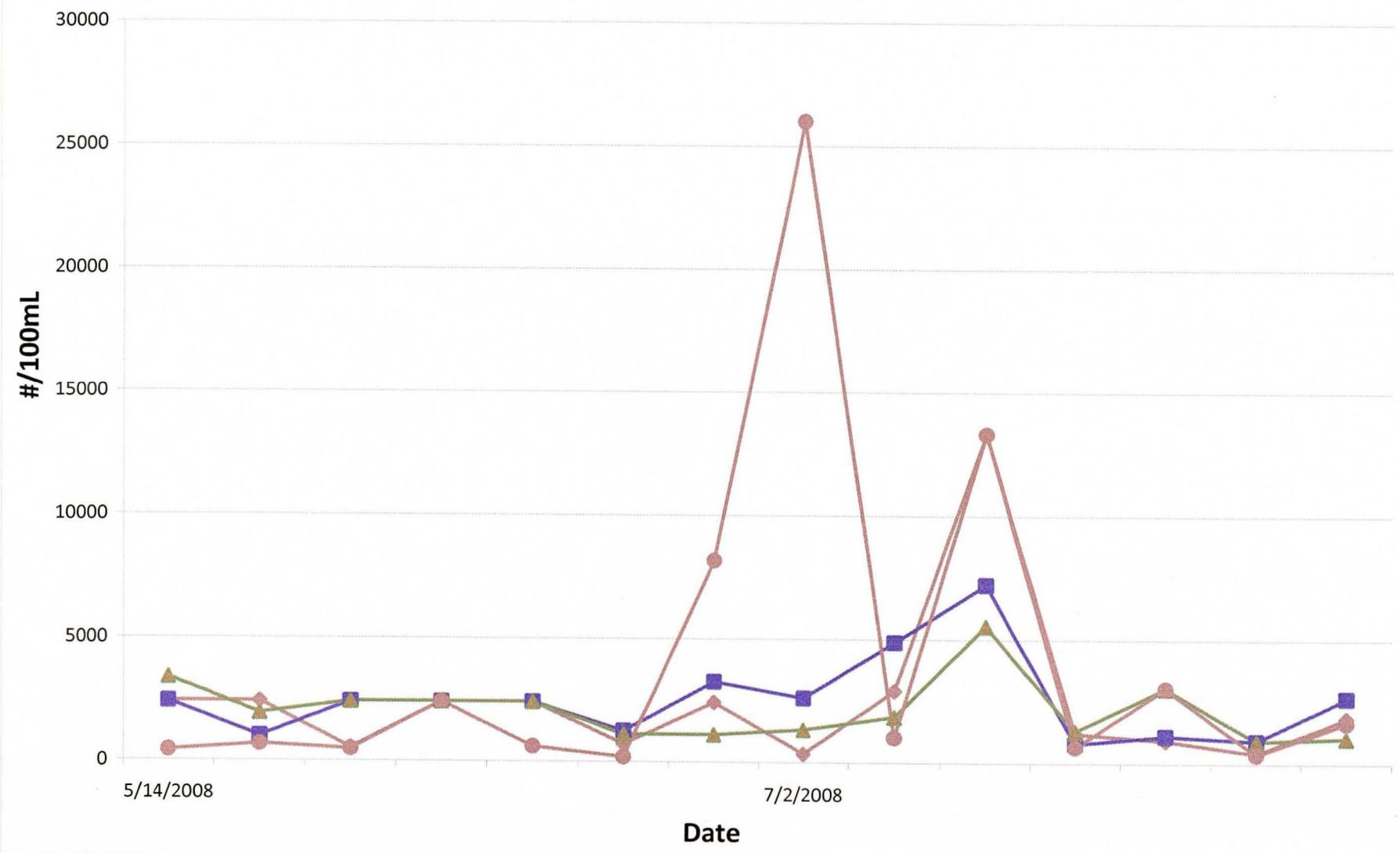
E-Coli 2008

	I	Q	J	E
5/14/2008	2420	2420	417	3386
5/21/2008	2420	1011	675	1935
5/28/2008	527	2420	484	2420
6/4/2008	2420	2420	2420	2420
6/11/2008	2420	2420	597	2420
6/18/2008	712	1255	179	1107
6/25/2008	2420	3263	8164	1114
7/2/2008	335	2604	25997	1321
7/9/2008	2909	4884	1013	1855
7/16/2008	13308	7226	13308	5542
7/23/2008	1205	793	650	1299
7/30/2008	927	1116	3037	3037
8/6/2008	407	930	371	918
8/13/2008	1847	2664	1650	1037
8/20/2008	0	0	0	0
Geomean	1516	2081	1409	1858

TNTC*Red indicates E. coli Samples were unable to be obtained**

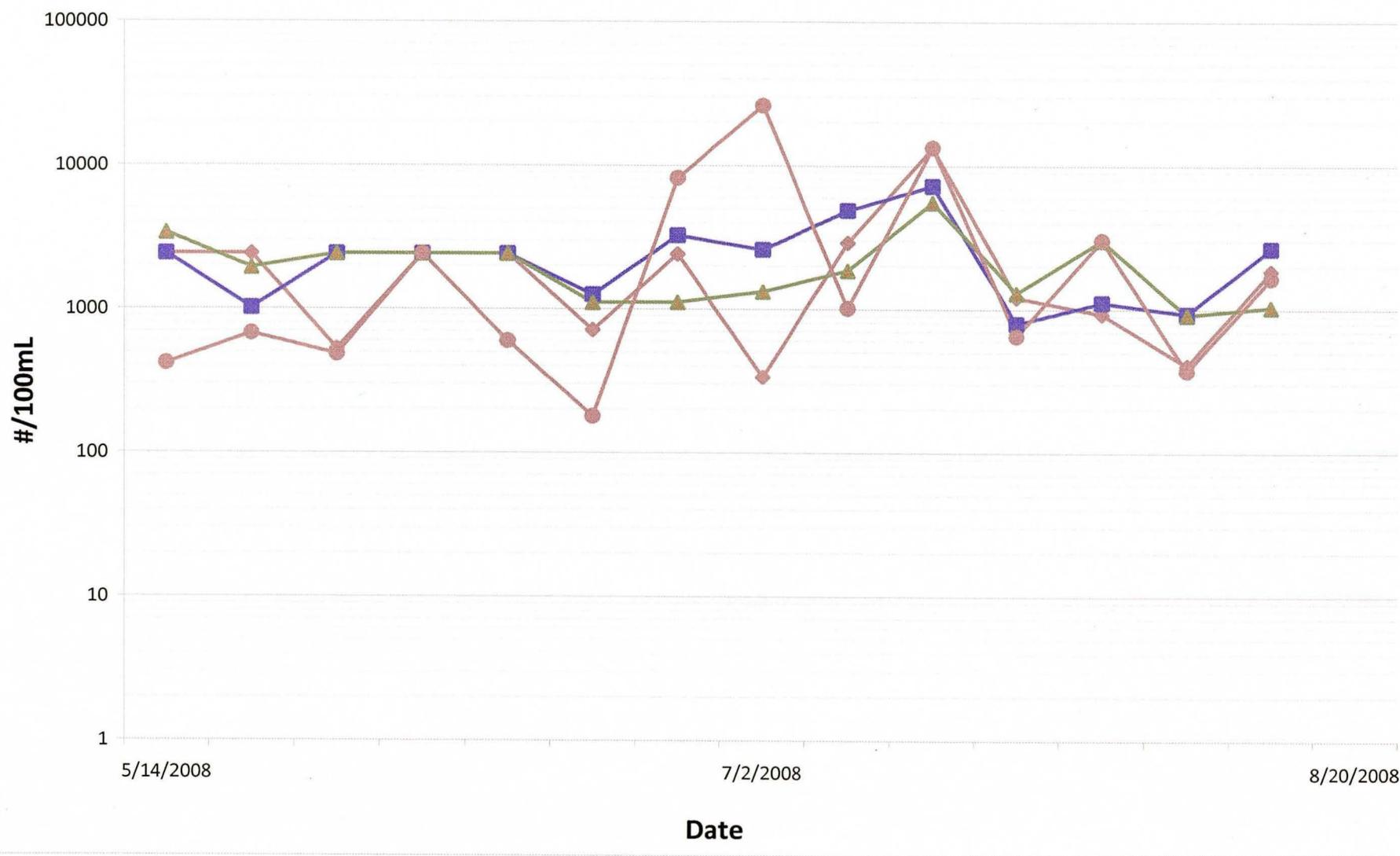
E Coli

I Q E J



E Coli (Log Scale)

I Q E J



Fecal Colliform 2008

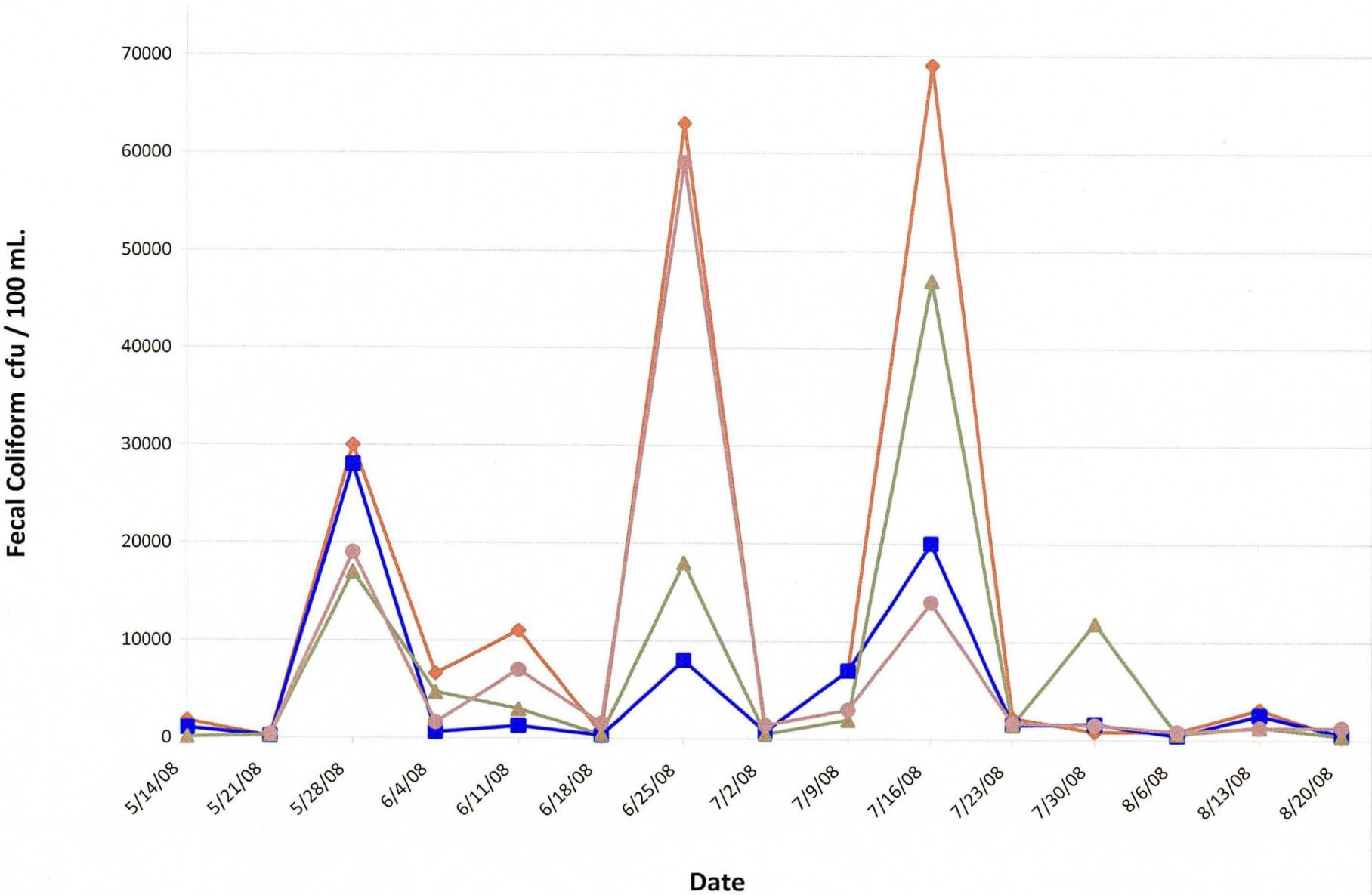
	I	Q	J	E
5/14/2008	1770	1000	70	d
5/21/2008	128	160	260	350
5/28/2008	30000	28000	17000	19000
6/4/2008	6600	600	4700	1600
6/11/2008	11000	1250	3000	7000
6/18/2008	510	290	390	1520
6/25/2008	63000	8000	18000	59000
7/2/2008	700	700	500	1400
7/9/2008	7000	7000	2000	3000
7/16/2008	69000	20000	47000	14000
7/23/2008	2200	1490	1520	1670
7/30/2008	800	1590	11900	1500
8/6/2008	830	420	620	830
8/13/2008	3100	2500	1300	1230
8/20/2008	320	520	400	1260

Date	PPT	I	Q	J	E
5/1/2008	0				
5/2/2008	0.32				
5/3/2008	0.01				
5/4/2008	0				
5/5/2008	0				
5/6/2008	0.2				
5/7/2008	0.1				
5/8/2008	0.1				
5/9/2008	0.16				
5/10/2008	0.76				
5/11/2008	0				
5/12/2008	0				
5/13/2008	0				
5/14/2008	0	1770	1000	70	
5/15/2008	0				
5/16/2008	0				
5/17/2008	0				
5/18/2008	0				
5/19/2008	0				
5/20/2008	0				
5/21/2008	0	128	160	260	350
5/22/2008	0.27				
5/23/2008	1.05				
5/24/2008	0.29				
5/25/2008	0.1				
5/26/2008	0.02				
5/27/2008	0.52				
5/28/2008	0.26	30000	28000	17000	19000
5/29/2008	0.14				
5/30/2008	2.25				
5/31/2008	0				
6/1/2008	0				
6/2/2008	0.01				
6/3/2008	0.13				
6/4/2008	0.68	6600	600	4700	1600
6/5/2008	0.99				
6/6/2008	0				
6/7/2008	0.06				
6/8/2008	1.55				
6/9/2008	0.1				
6/10/2008	0				
6/11/2008	2.24	11000	1250	3000	7000
6/12/2008	0.04				
6/13/2008	0				
6/14/2008	0				
6/15/2008	0.12				
6/16/2008	0				

6/17/2008	0				
6/18/2008	0.01	510	290	390	1520
6/19/2008	1.19				
6/20/2008	0.08				
6/21/2008	0.19				
6/22/2008	0				
6/23/2008	0				
6/24/2008	1.07				
6/25/2008	0	63000	8000	18000	59000
6/26/2008	0.48				
6/27/2008	0.57				
6/28/2008	0.02				
6/29/2008	0				
6/30/2008	0				
7/1/2008	0				
7/2/2008	0.43	700	700	500	1400
7/3/2008	0				
7/4/2008	0				
7/5/2008	0.01				
7/6/2008	0.01				
7/7/2008	0.18				
7/8/2008	0.28				
7/9/2008	0	7000	7000	2000	3000
7/10/2008	0				
7/11/2008	0				
7/12/2008	0.07				
7/13/2008	0				
7/14/2008	0				
7/15/2008	1.06				
7/16/2008	0.07	69000	20000	47000	14000
7/17/2008	0.19				
7/18/2008	0				
7/19/2008	0				
7/20/2008	0.01				
7/21/2008	0.01				
7/22/2008	0.19				
7/23/2008	0.02	2200	1490	1520	1670
7/24/2008	0.39				
7/25/2008	0				
7/26/2008	0				
7/27/2008	0.01				
7/28/2008	0				
7/29/2008	0.24				
7/30/2008	0	800	1590	11900	1500
7/31/2008	0				
8/1/2008	0				
8/2/2008	0				
8/3/2008	0				
8/4/2008	0.01				
8/5/2008	0.01				
8/6/2008	0.01	830	420	620	830
8/7/2008	0				
8/8/2008	0				
8/9/2008	0				
8/10/2008	0.02				
8/11/2008	0				
8/12/2008	0.13				
8/13/2008	0	3100	2500	1300	1230
8/14/2008	0				
8/15/2008	0				
8/16/2008	0				
8/17/2008	0				
8/18/2008	0				
8/19/2008	0				
8/20/2008	0.01	320	520	400	1260
8/21/2008	0.01				
8/22/2008	0				

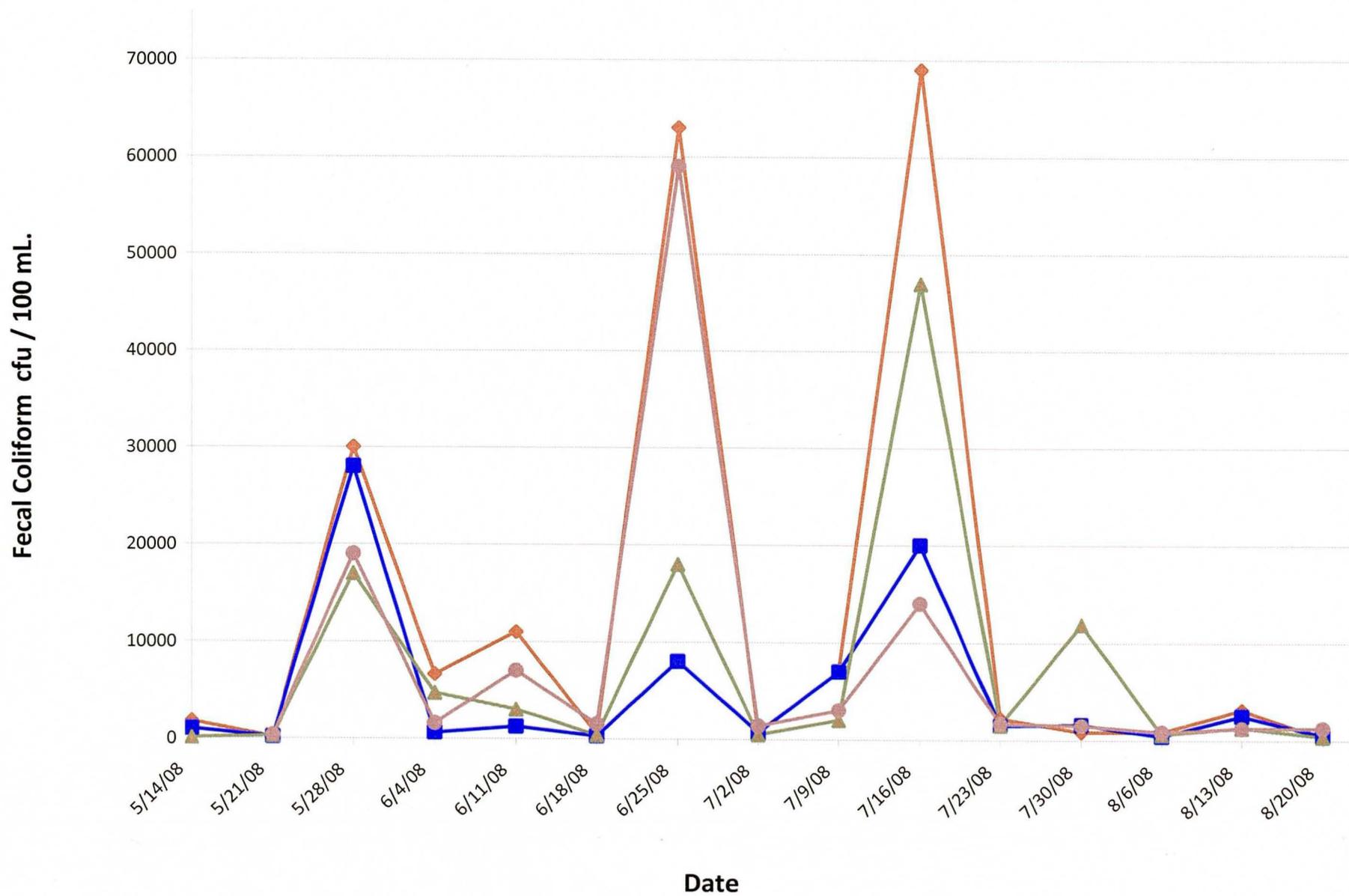
Fecal Coliform

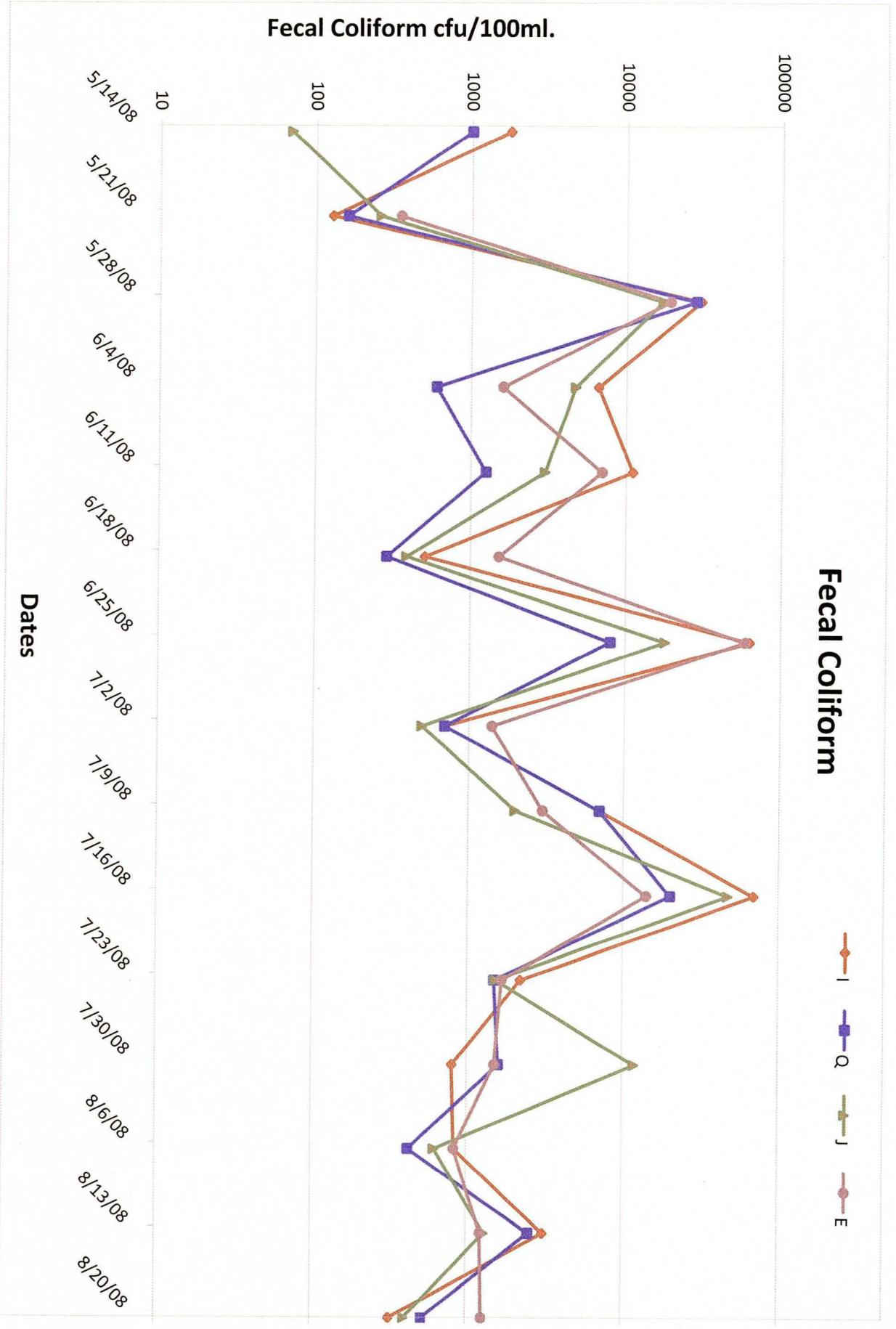
I Q J E



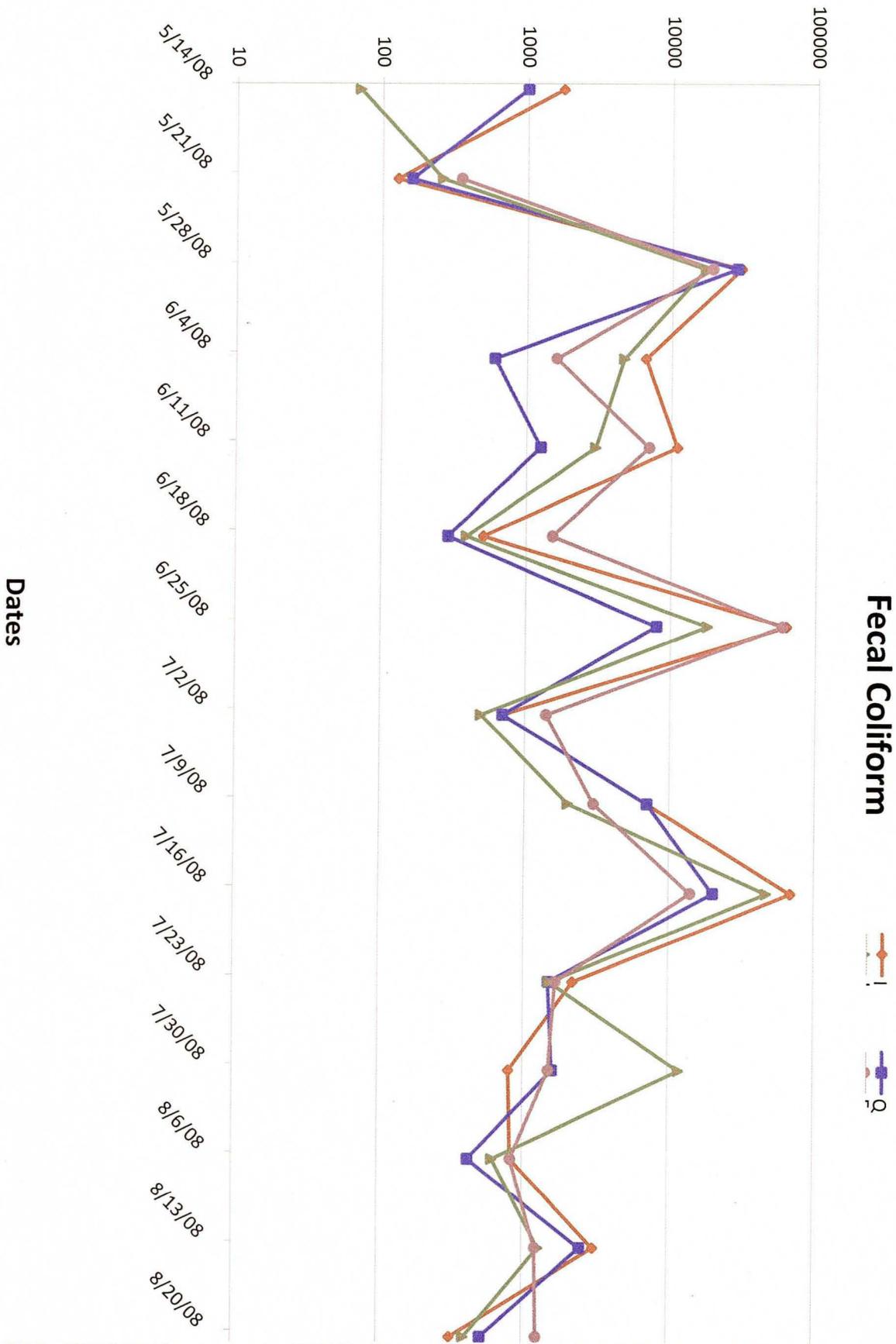
Fecal Coliform

I Q J E





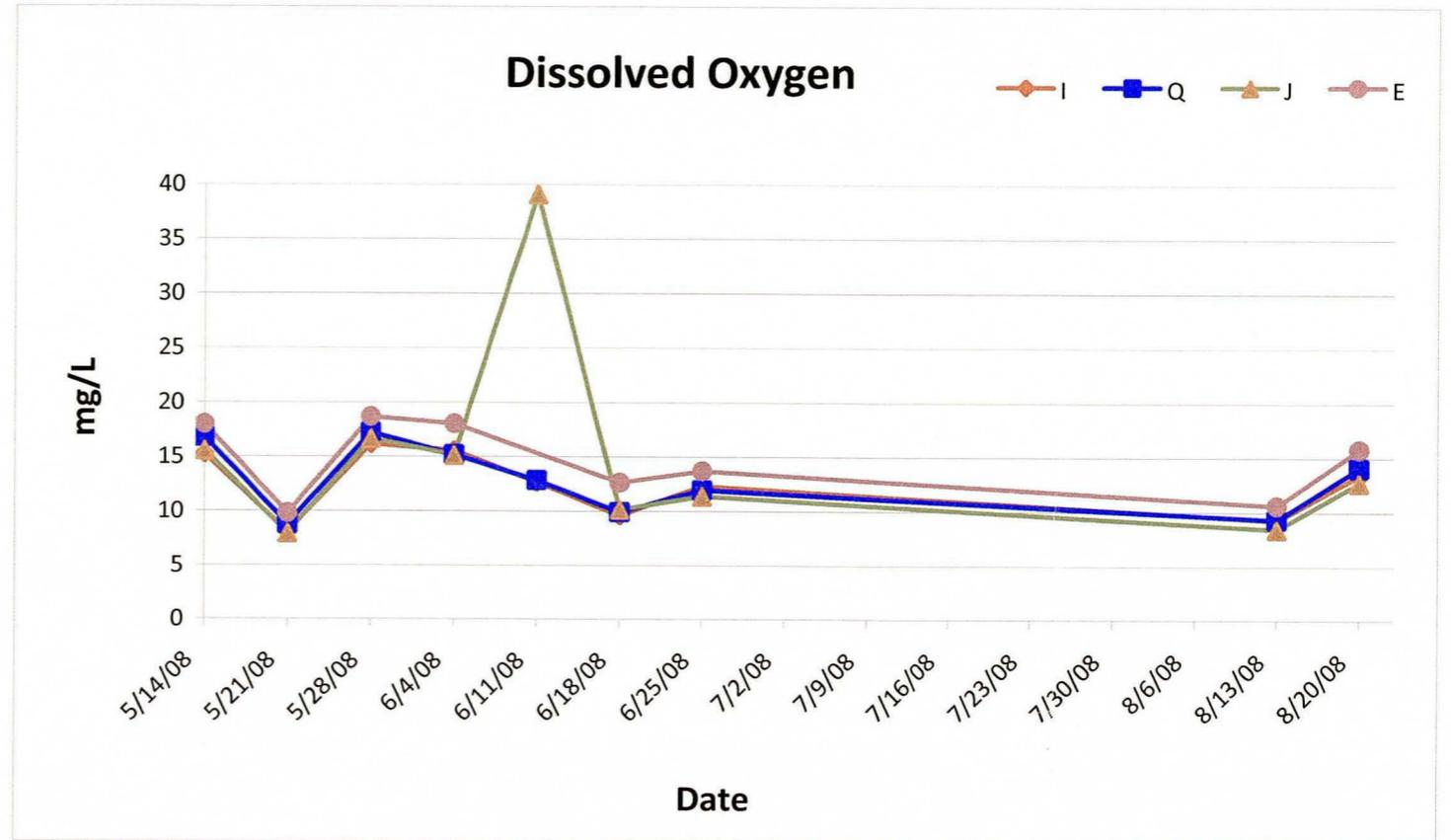
Fecal Coliform cfu/100ml.



Dissolved Oxygen 2008

	I	Q	J	E
5/14/2008	15	17	16	18
5/21/2008	8	9	8	10
5/28/2008	16	17	17	19
6/4/2008	16	15	15	18
6/11/2008	13	13	39	0
6/18/2008	10	10	10	13
6/25/2008	12	12	11	14
7/2/2008	0	0	0	0
7/9/2008	0	0	0	0
7/16/2008	0	0	0	0
7/23/2008	0	0	0	0
7/30/2008	0	0	0	0
8/6/2008	0	0	0	0
8/13/2008	9	9	8	11
8/20/2008	13	14	13	16
Average	12.47	12.88	15.23	14.64

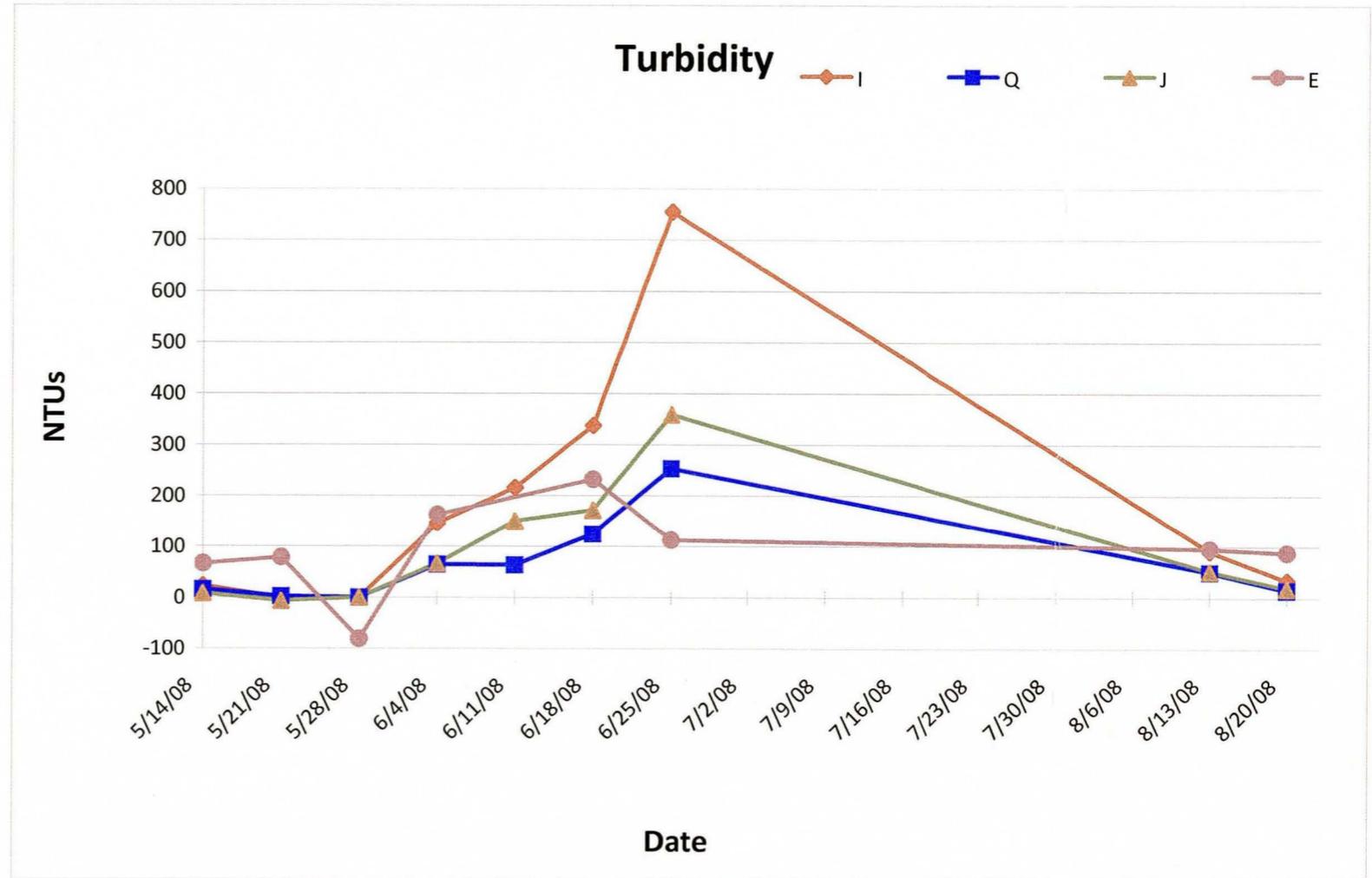
Red indicates dissolved oxygen readings were unable to be obtained



Turbidity 2008

	I	Q	J	E
5/14/2008	23	16	8	66
5/21/2008	0	2	-7	78
5/28/2008	0	0	0	-82
6/4/2008	146	65	67	162
6/11/2008	216	64	150	0
6/18/2008	337	125	172	232
6/25/2008	755	254	359	113
7/2/2008	0	0	0	0
7/9/2008	0	0	0	0
7/16/2008	0	0	0	0
7/23/2008	0	0	0	0
7/30/2008	0	0	0	0
8/6/2008	0	0	0	0
8/13/2008	91	50	52	96
8/20/2008	34	14	18	88
Total Average	177.9	65.4	91.0	94.2

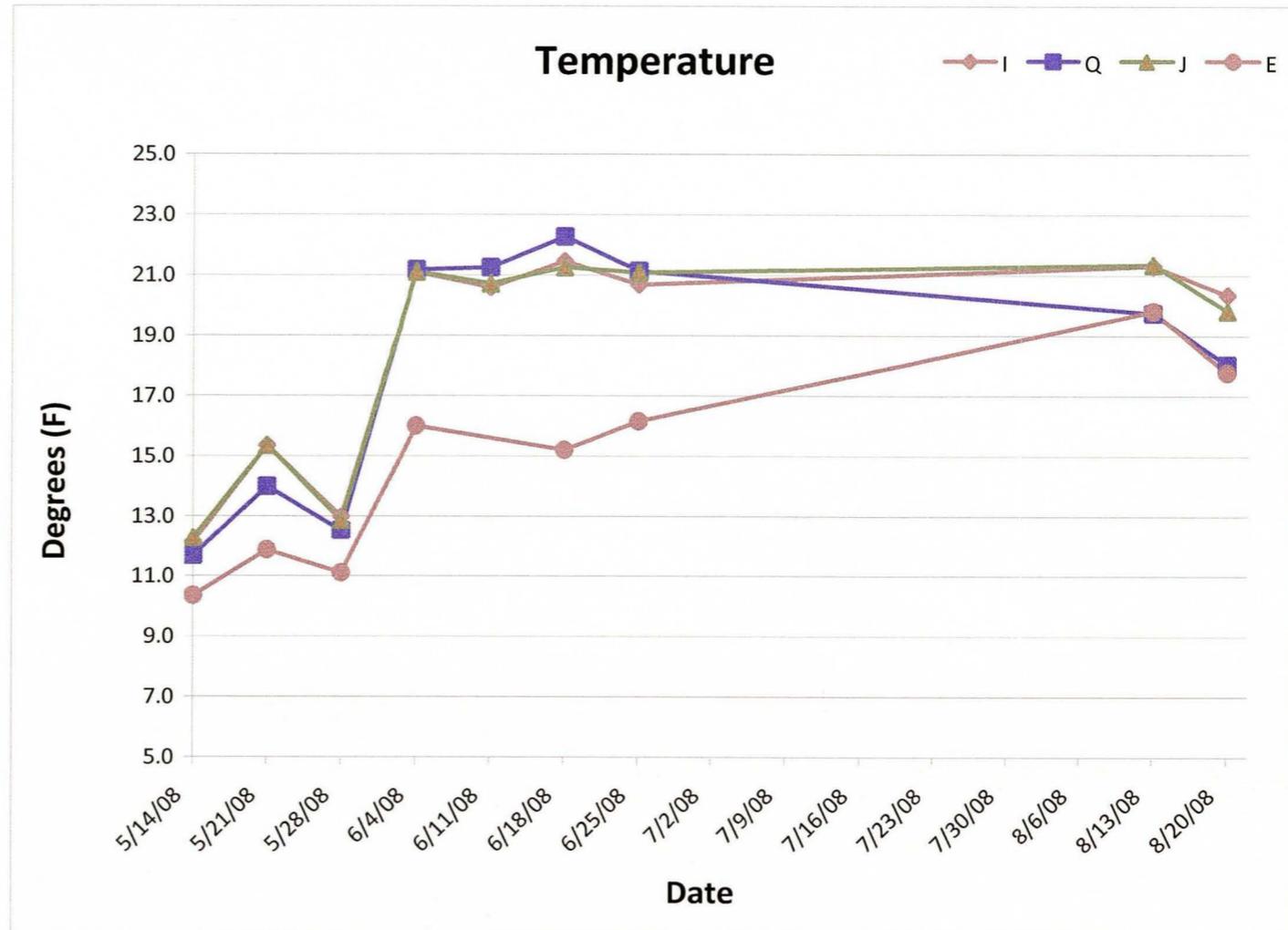
Red indicates turbidity readings were unable to be obtained



Temperature 2008

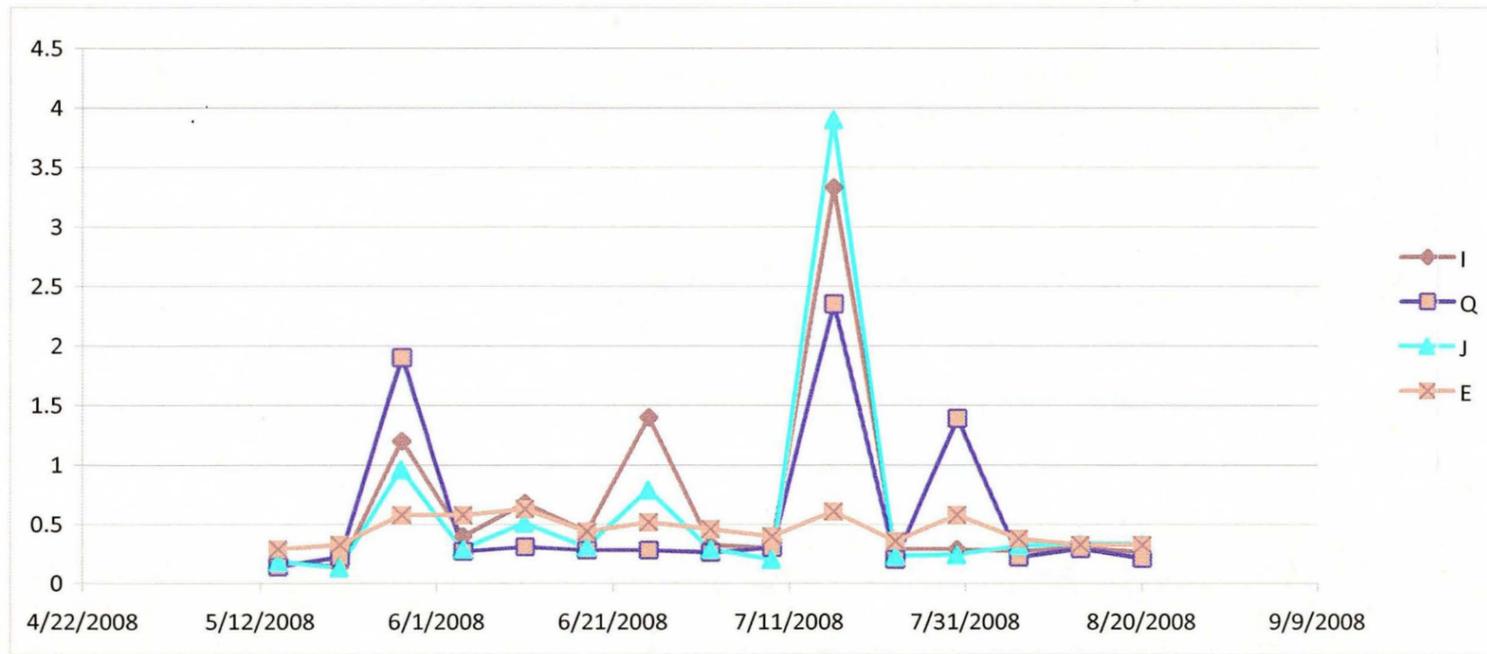
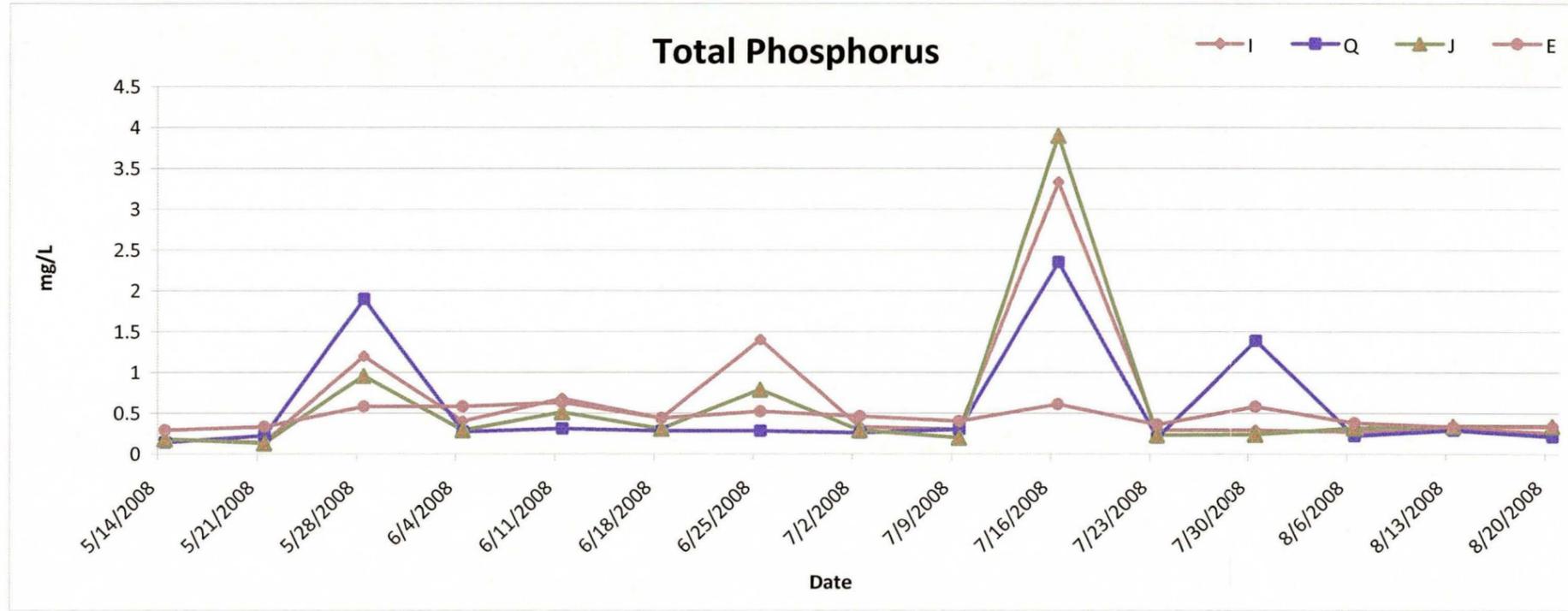
	I	Q	J	E
5/14/2008	12.1	11.7	12.3	10.4
5/21/2008	15.4	14.0	15.4	11.9
5/28/2008	13.0	12.5	12.9	11.1
6/4/2008	21.1	21.2	21.1	16.0
6/11/2008	20.6	21.3	20.7	0.0
6/18/2008	21.5	22.3	21.3	15.2
6/25/2008	20.7	21.1	21.1	16.2
7/2/2008	0.0	0.0	0.0	0.0
7/9/2008	0.0	0.0	0.0	0.0
7/16/2008	0.0	0.0	0.0	0.0
7/23/2008	0.0	0.0	0.0	0.0
7/30/2008	0.0	0.0	0.0	0.0
8/6/2008	0.0	0.0	0.0	0.0
8/13/2008	21.3	19.7	21.4	19.8
8/20/2008	20.4	18.0	19.8	17.8
Average	18.4	18.0	18.4	14.8

Red indicates temperature readings were unable to be obtained



Total Phosphorus

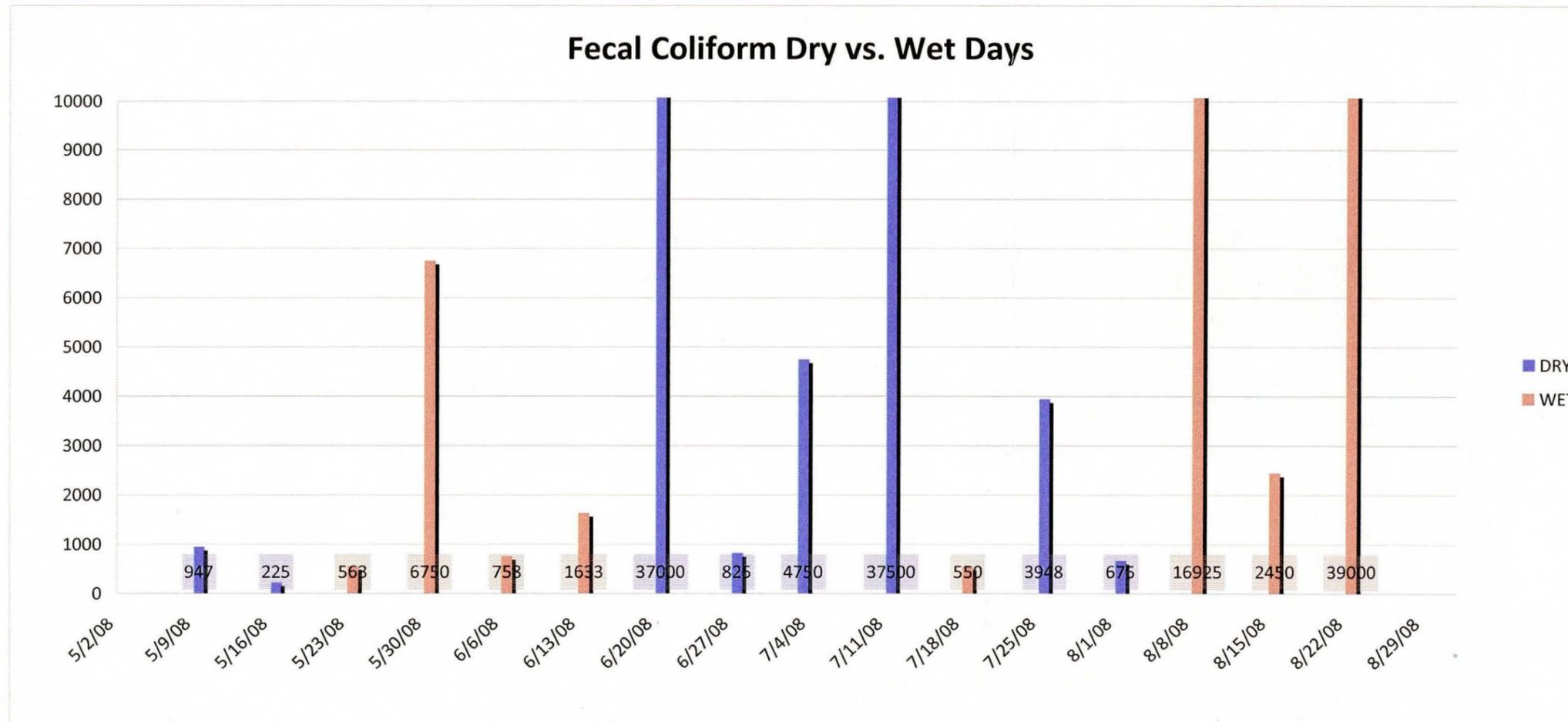
	5/14/2008	5/21/2008	5/28/2008	6/4/2008	6/11/2008	6/18/2008	6/25/2008	7/2/2008	7/9/2008	7/16/2008	7/23/2008	7/30/2008	8/6/2008	8/13/2008	8/20/2008
I	0.18	0.14	1.2	0.4	0.68	0.44	1.4	0.33	0.3	3.33	0.29	0.29	0.27	0.31	0.26
Q	0.14	0.22	1.9	0.27	0.31	0.28	0.28	0.26	0.3	2.35	0.2	1.39	0.22	0.29	0.21
J	0.18	0.13	0.96	0.29	0.51	0.31	0.79	0.29	0.20	3.90	0.23	0.24	0.32	0.34	0.34
E	0.29	0.33	0.58	0.58	0.63	0.44	0.52	0.46	0.4	0.61	0.36	0.58	0.38	0.33	0.33



DRY	I	Q	J	E	Daily Avg	WET	I	Q	J	E	Daily Avg
5/9/08	1770	1000	70	d	947						
5/23/08						5/23/08	310	390	780	770	563
5/16/08	128	160	260	350	225						
5/30/08						5/30/08	11000	9000	4000	3000	6750
6/6/08						6/6/08	670	800	560	1000	758
6/13/08						6/13/08	560	1110	860	4000	1633
6/20/08	63000	8000	18000	59000	37000						
6/27/08	700	700	500	1400	825						
7/3/08	7000	7000	2000	3000	4750						
7/18/08						7/18/08	400	433	467	900	550
7/11/08	69000	20000	47000	14000	37500						
7/25/08	800	1590	11900	1500	3948						
8/1/08	830	420	620	830	675						
8/8/08						8/8/08	4200	16200	4100	43200	16925
8/15/08						8/15/08	1200	2800	1000	4800	2450
8/22/08						8/22/08	9000	5000	4000	138000	39000

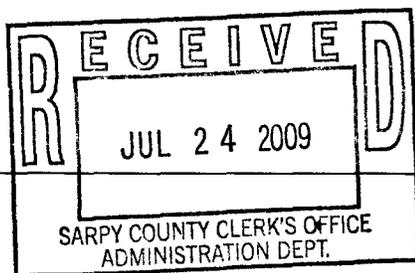
DRY	5/9/2007	5/16/2007				6/20/2007	6/27/2007	7/3/2007	7/11/2007		7/25/2007	8/1/2007		
WET			5/23/2007	5/30/2007	6/6/2007	6/13/2007				7/18/2007		8/8/2007	8/15/2007	8/22/2007

Fecal Coliform Dry vs. Wet Days





Dave Heineman
Governor



STATE OF NEBRASKA
DEPARTMENT OF ENVIRONMENTAL QUALITY
Michael J. Linder
Director

Suite 400, The Atrium
1200 'N' Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
FAX (402) 471-2909
website: www.deq.state.ne.us

July 22, 2009

Joni Jones, Chair of County Board
Sarpy County Nebraska
1210 Golden Gate Drive
Papillion, NE 68046

RE: NER200000, Administrative Extension & Permit Re-Issuance

Dear Joni Jones:

This communication is being sent to inform you that the Nebraska Department of Environmental Quality intends to place NPDES permit NER200000 on Administrative Extension. NPDES permit NER200000 is scheduled to expire on August 1, 2009. With continuance through Administrative Extension, the conditions of an expired permit continue in force until the effective date of a new permit. The issuance of an Administrative Extension does not require any action on the part of the applicants. The current SWMP and permit remain in effect.

To better understand the proposed SWMPs submitted by the applicants, the Department requests that each applicant respond to the following concerns regarding the proposed Storm Water Management Plan submitted to the Department, hereafter referred to as the Common Plan, by **Monday, August 3, 2009**.

BMP #1.G of the Common Plan is focused on the development of a website. Does the community you represent currently have a city website? Is it contemplated or intended that this new website would be directly accessible from the main city website for the community?

BMP #1.H of the Common Plan refers to the cooperative efforts of the Lower Platte Weed Management Area. The Department does not contest the validity or merits of such an effort; however, this item is believed to be beyond the scope of the intent of the MS4 program. Though non-chemical management options exist and several herbicides are labeled for application in these scenarios, the Department is concerned about the application of pesticides within waters of the state under the auspices of Storm Water Management. The Department requests that this item (1.H) be removed from the Common Plan.

BMP #3.A of the Common Plan states that dry-weather inspections will be conducted on outfalls 72" or greater and outfalls for which there have been documented complaints. The Department requests information regarding the number of outfalls your community anticipates would be receiving dry-weather inspection with this stormwater control.

BMP #5.A of the Common Plan refers to the development of a guidance document for Post-Construction Storm Water Management. Please explain the extent to which your community has authority (by ordinance or other means) to require the use of post-construction stormwater controls and the maintenance thereof. If such authority does not exist, the Department requests that the Common Plan be amended to display intent to institute such authority.

BMP #6.A of the Common Plan makes reference to Storm Water Pollution Prevention Plans for maintenance facilities. This stormwater control also makes reference to No-Exposure Certification. These facilities are not automatically subject to Industrial Storm Water Discharge Permit authorization. Please clarify the intent of this control. The use of the terms Storm Water Pollution Prevention Plan and No-Exposure have connotations that imply permit authorization will be sought and received. It is contemplated that terms such as, Run-off Control Plan or similar would be used to display that these facilities will not be subject to the NPDES Industrial Storm Water permit (NER000000). No-Exposure certification is an option for industries in Category xi as identified in the Appendix B of the General Permit. Should permit authorization be sought for these facilities, No-Exposure certification would not be an option. The Department requests that this control be amended to more clearly state that the condition of No-Exposure will be used as guidance in the management of these facilities.

BMP #6.C of the Common Plan refers to pollution prevention from maintenance facilities. The Department is interested in knowing if all non-administrative facilities will be affected by this control and whether or not field activities for municipal operations have or will be evaluated. As municipal employees, a large amount of time is spent interacting with the community and in field operations. A potential exists to contribute to the contamination of stormwater run-off from these activities.

BMP #6.D of the Common Plan states that the applicant will provide for street cleaning. The Department requests a statement be inserted to the effect that the applicant will also evaluate current street sweeping operations for the potential to increase the effectiveness of street sweeping operations as they relate to pollutant removal.

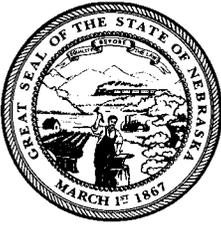
Sincerely,



Blayne W. Renner
Department of Environmental Quality
Water Quality Division
Stormwater Coordinator
1200 "N" Street, Suite 400
Lincoln, NE 68509-8922
Telephone: 402-471-8330

Cc: Rebecca Horner, Planning Director; 1210 Golden Gate Drive; Papillion, NE 68046

eCc: Rebecca Horner, Planning Director; rhorer@sarpy.com



Dave Heineman
Governor

STATE OF NEBRASKA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Michael J. Linder

Director

Suite 400, The Atrium

1200 'N' Street

P.O. Box 98922

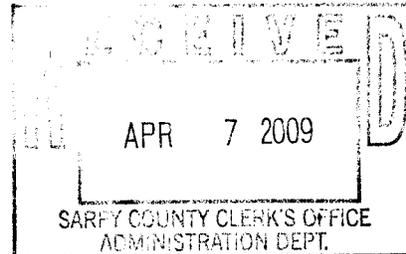
Lincoln, Nebraska 68509-8922

Phone (402) 471-2186

FAX (402) 471-2909

website: www.deq.state.ne.us

April 2, 2009



Ms. Joni Jones
Chair, County Board of Commissioners
Sarpy County
1210 Golden Gate Drive
Papillion, NE 68046

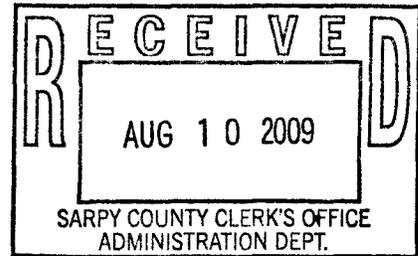
Dear Ms. Jones:

The 2008 annual report for the SMS4 NPDES Permit NER200000 has been received at NDEQ.
Thank you for the timely submission of this report.

Sincerely,

A handwritten signature in cursive script that reads "Donna L. Garden".

Donna Garden, Supervisor
NPDES/NPP Permits & Compliance Unit
Water Quality Division



PO Box 98922, Lincoln, NE 68509-8922

July 31, 2009

Ms. Joni Jones, Chairperson
Sarpy County Commissioners
1210 Golden Gate Dr.
Papillion, NE 68046-3088

NOTIFICATION OF NPDES sMS4 PERMIT EXTENSION

The sMS4 permit NER200007 (IIS998976) under the General Permit NER200000 for Sarpy County has been extended beyond the expiration date of July 31, 2009 according to Title 119-*Rules and Regulations Pertaining to the Issuance of Permits under the National Pollutant Discharge Elimination System*, Chapter 24. Until further notice from the Department, the permit shall remain fully effective and enforceable.

Should you have any questions, please contact Sharon Brunke, Water Quality Division, at 402-4741-8830. Thank you.