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DEC 14 2009

Industrial Wastewater
Section



December 8, 2009

Mr. Mark Harris
Supervisor, Power Plant NPDES Permitting
Florida Department of Environmental Protection
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399

OVERNIGHT MAIL

**RE: Renewal Application for NPDES Permit No. FL0002283
Gulf Power Company- Scholz Electric Generating Plant**

Dear Mr. Harris:

Gulf Power has enclosed four (4) completed applications and supporting documents to renew the NPDES permit for Scholz Electric Generating Plant pursuant to Section VII.B.1 of permit FL0002283. The application consists of the following information:

- Attachment 1 – Form 1 and Requested Changes to the existing NPDES permit
- Attachment 2 – Form 2CS
- Attachment 3 – Form 2CG
- Attachment 4 – Groundwater Summary Report as required by Condition III.B.4
- Attachment 5 – Form 2A for the onsite Domestic Wastewater Treatment Plant
- Attachment 6 – 316(b) Impingement and Entrainment Mortality Characterization Study
- Attachment 7 – Thermal Evaluation Plan and Reports

The Study provided in Attachment 7 represents information gathered by Gulf Power with the intent of complying with the suspended Phase II rule and is submitted to the Department for consideration. The required \$7,500 application fee is also enclosed.

Please feel free to contact Susan Kennedy at (850) 444-6153 or Joe Neese at (850) 444-6429 of my staff if you have any questions or need any additional information.

Sincerely,

James O. Vick
Environmental Affairs

cc: Bill Armstrong, FDEP Pensacola
Mark Sumner (cover only), FDEP Panama City
Brian Heinfeld (cover only), Gulf Power
Kenny Peacock, Gulf Power Plant Scholz
Jora Maxwell (cover only), Gulf Power Plant Scholz



WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION FORM 1 GENERAL INFORMATION

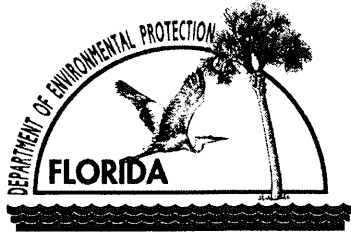
This form must be completed by all persons applying for a permit for a wastewater facility or activity under Chapter 62-620, F.A.C..

See Form 1 to determine which other application forms you will need.

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Industrial Wastewater
Section



WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION FORM 1 GENERAL INFORMATION

I IDENTIFICATION NUMBER:

Facility ID FL0002283

II CHARACTERISTICS:

INSTRUCTIONS: Complete the questions below to determine whether you need to submit any permit application forms to the Department of Environmental Protection. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the blank in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements. See Section B of the instructions. See also, Section C of the instructions for definitions of the terms used here.

SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a domestic wastewater facility which results in a discharge to surface or ground waters?		X	
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters?		X	
C. Does or will this facility (other than those describe in A. or B.) discharge process wastewater, or non-process wastewater regulated by effluent guidelines or new source performance standards, to surface waters?	X		2CS
D. Does or will this facility (other than those described in A. or B.) discharge process wastewater to ground waters?	X		2CG
E. Does or will this facility discharge non-process wastewater, not regulated by effluent guidelines or new source performance standards, to surface waters?		X	
F. Does or will this facility discharge non-process wastewater to ground waters?		X	
G. Does or will this facility discharge stormwater associated with industrial activity to surface waters?		X	
H. Is this facility a non-discharging/closed loop recycle system?		X	

III NAME OF FACILITY: (40 characters and spaces)

Scholz Electric Generating Plant

IV FACILITY CONTACT: (A. 30 characters and spaces)

A. Name and Title (Last, first, & title)	B. Phone (area code & no.)
Kennedy, Susan Sr. Env. Affairs Splst.	(850) 444-6153

V FACILITY MAILING ADDRESS: (A. 30 characters and spaces; B. 25 characters and spaces)

A. Street or P.O. Box: One Energy Place		
B. City or Town: Pensacola	State: FL	Zip Code: 32520

VI FACILITY LOCATION: (A. 30 characters and spaces; B. 24 characters and spaces; C. 3 spaces (if known); D. 25 characters and spaces; E. 2 spaces; F. 9 spaces)

A. Street, Route or Other Specific Identifier: 1460 Gulf Power Road		
B. County Name: Jackson	C. County Code (if known):	
D. City or Town: Sneads	E. State: FL	F. Zip Code: 32460

VII SIC CODES: (4-digit, in order of priority)

1. Code #: 4911	(Specify) Electric Serv	2. Code #:	(Specify)
3. Code #:	(Specify)	4. Code #:	(Specify)

VIII OPERATOR INFORMATION: (A. 40 characters and spaces; B. 1 character; C. 1 character (if other, specify); D. 12 characters; E. 30 characters and spaces; F. 25 characters and spaces; G. 2 characters; H. 9 characters)

A. Name: Gulf Power Company		B. Is the name in VIII A. the owner? ☒ Yes ☐ No	
C. Status of Operator: F = Federal; S = State; P = Private; O = Other; M = Public (other than F or S)	(code) P	(specify) Utility	D. Phone No.: 850-444-6153
E. Street or P. O. Box: One Energy Place			
F. City or Town: Pensacola		G. State: FL	H. Zip Code: 32520

IX INDIAN LAND: Is the facility located on Indian lands?☐ Yes☒ No

X EXISTING ENVIRONMENTAL PERMITS:

A. NPDES Permit No.	B. UIC Permit No.	C. Other (specify)	D. Other (specify)
FL0002283		Stormwater MSGP	

XI MAP: Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII NATURE OF BUSINESS (provide a brief description)

Electrical power generation

XIII CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

James O. Vick

A. Name (type or print)

Environmental Affairs Director

Official Title (type or print)



B. Signature

12/8/09

C. Date Signed



Scholz Boundary map



Legend

- Interstates
- US Highways
- State Highways
- Local Roads
- Cities (census places)
- Counties (generalized)

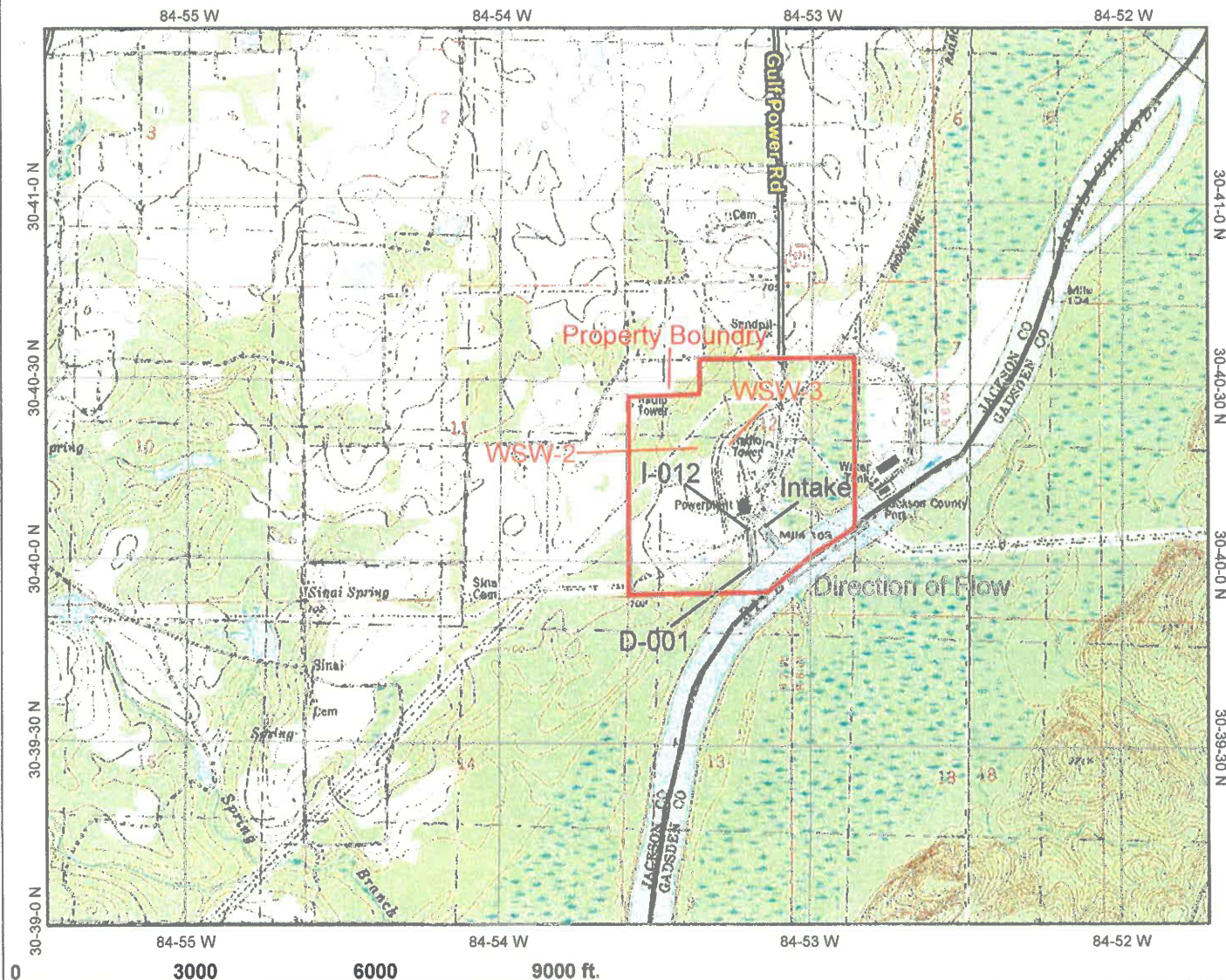
WSW-2: Water Supply Well #2

WSW-3: Water Supply Well #3

D-001: Combined Plant Discharge

I-012: Ashpond Flow to Discharge Canal

Scale: 1:32,044



Map center: 314487, 740623

[Florida Department of Environmental Protection] Disclaimer: This map is intended for display purposes only. It was created using data from different sources collected at different scales, with different levels of accuracy, and/or covering different periods of time.

Notes: Map produced on Mon Oct 19 10:43:32 EDT 2009

Plant Scholz
NPDES Permit #FL0002283
Issuance Date: July 1, 2005
Expiration Date: June 30, 2010
Renewal Application

Requested Changes to Existing Permit

1. Administrative Order No. AO014TL was issued with the previous permit. Gulf Power has complied with the Order and requests that all language in the Order and referencing the Order be removed from the Permit. In addition as stated in the written groundwater technical report as required by Condition VI.4 and submitted as Attachment 4, Arsenic should be listed as report only for all compliance wells onsite.
2. Page 9; condition I.E.12 – The existing permit states, “No later than December 31, 2005, and annually thereafter, the permittee shall certify that no breaches or structural defects...” Gulf Power requests the due date for this requirement be changed from December 31st each year to January 31st each year. This will allow the certification to cover an entire calendar year from January 1st to December 31st.
3. Page 9 and 10; condition I.E.15 – The existing permit states, “Another physical survey shall be conducted 3 to 6 months prior to the expiration of this permit to be used as the basis for certification...” Gulf Power requests that this language be changed to, “Another physical survey shall be conducted prior to the expiration of this permit to be used as the basis for certification...” The time frame of 3 to 6 months is problematic given the fact that the permit renewal application must be submitted 180 days prior to the expiration of the permit. This time frame does not allow Gulf Power to perform the survey prior to the submittal of the permit application which would be more appropriate.
4. Page 10; condition I.E.16 – Gulf Power has complied with this condition and requests that it be removed from the permit.
5. Page 11; condition III.B.3 – As stated in Item 1 above and the groundwater technical report in Attachment 4, due to the natural presence of arsenic, Gulf Power requests that “Arsenic, Total Recoverable” be listed as “report only,” for all compliance well limits.
6. Page 14; conditions VI.5 and VI.6 – Gulf Power has complied with these conditions; therefore they are no longer applicable and should be removed from the permit. Condition VI.6 has an incorrect reference: “40 CFR Part 125.95(a)(1) and (2)” and should be removed or rewritten.
7. Page 18; conditions VII.E – Specific Conditions Related to Existing Manufacturing, Commercial, Mining, and Silviculture Wastewater Facilities or Activities is not applicable to this facility and should be removed.



WASTEWATER APPLICATION FORM 2CS

PERMIT TO DISCHARGE PROCESS WASTEWATER
FROM NEW OR EXISTING
INDUSTRIAL WASTEWATER FACILITIES
TO SURFACE WATER

FORM 2CS



WASTEWATER APPLICATION FOR PERMIT TO DISCHARGE PROCESS WASTEWATER FROM NEW OR EXISTING INDUSTRIAL WASTEWATER FACILITIES TO SURFACE WATERS

Facility I.D. Number: FL0002283

Please print or type information in the appropriate areas.

I OUTFALL LOCATION For each outfall, list the X,Y coordinates and the name of the receiving water.
(latitude/longitude to the nearest 15 seconds)

A. Outfall No. (List)	B. Latitude			C. Longitude			D. Name of Receiving Water
	Deg.	Min.	Sec.	Deg.	Min.	Sec.	
D-001	30	39	58	84	53	12	Apalachicola River
I-012	30	39	56	84	53	21	Internal Outfall
I-013	30	40	6	84	53	13	Internal Outfall

II OUTFALL DESIGN

A. Outfall No. (List)	B. Design Configuration and Construction Materials	C. Distance from shore	D. Diameter	E. Elevation of Discharge Invert (MSL)	F. Receiving Water Depth at POD (MSL)
D-001	Man Made Canal	NA	NA	NA	NA
I-012	Ash Pond	Internal	Outfall	to D-01	NA
I-013	Domestic Wastewater Plant	Internal	Outfall	to I-1C	NA

II RECEIVING WATER INFORMATION

For each surface water that will receive effluent, supply the following information:

A. Name of Receiving Water	B. Check One		C. Classification (See Ch. 62-302, F.A.C.)	D. Type of Receiving Water (canal, river, lake, etc.)
	Fresh	Salt or Brackish		
Apalachicola River	☒	☐	Class III	River
	☐	☐		
	☐	☐		
	☐	☐		
	☐	☐		
	☐	☐		

E. Minimum 7-day 10-year low flow of the receiving water at each outfall (if appropriate).

F. Identify and describe the flow of effluent from each outfall to a major body of water. A suitably marked map or aerial photograph may be used.

G. Do you request a mixing zone under Rule 62-4.244, F.A.C.? If yes, for what parameters or pollutants?

V FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B.

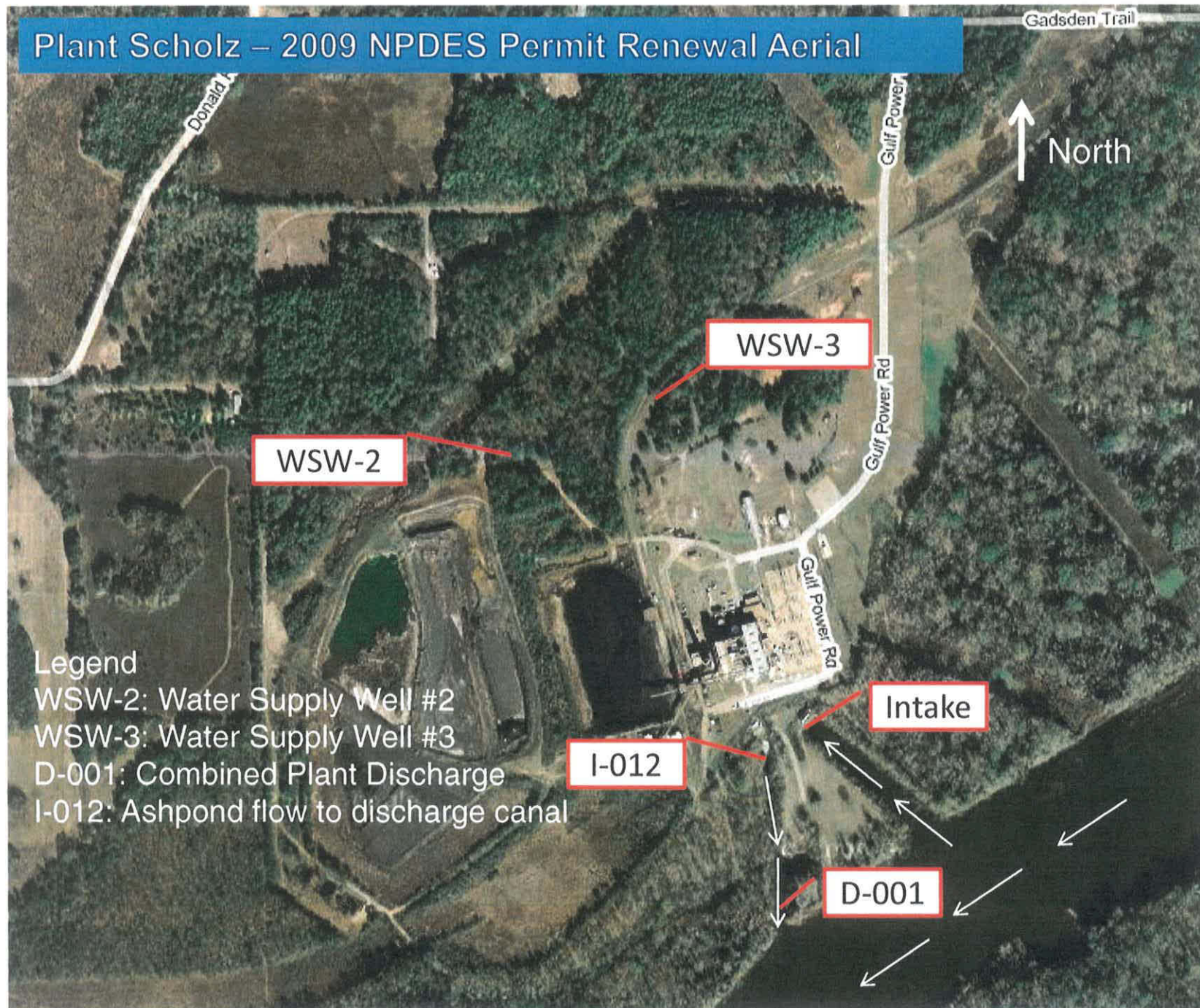
B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of:

1. All operations contributing wastewater to the effluent; including process wastewater, sanitary wastewater, cooling water, and stormwater runoff;
2. The average flow contributed by each operation; and
3. The treatment received by the wastewater.

Use the space on the next page. Continue on additional sheets, if necessary.

Plant Scholz – 2009 NPDES Permit Renewal Aerial



SECTION III-E (page 2CS-17): Minimum 7-day 10-year low flow of the receiving water at each outfall (if appropriate).

This information is not available for the outfall and therefore not appropriate.

SECTION III-F (page 2CS-17): Identify and describe the flow of effluent from each outfall to a major body of water. A suitably marked map or aerial photograph may be used.

See attached map for outfall locations. The facility's combined plant discharge (Outfall D-001), which consists of once-through cooling water and ash pond overflow, is discharged to the Apalachicola River via a man-made, 850-foot long canal. Ash pond overflow (Outfall I-012) consists of ash sluice water, building sumps (including water softener regeneration wastewater, boiler blowdown, auxiliary equipment cooling water, and air preheater wash water), coal pile runoff, yard sumps, and treated domestic wastewater. Treated domestic wastewater enters the ash pond (Outfall I-013) following secondary treatment via the facility's package wastewater treatment plant.

SECTION III-G (page 2CS-17): Do you request a mixing zone under Rule 62-4.2444, F.A.C.? If yes, for what parameters or pollutants?

Gulf Power does not request a mixing zone.

FIGURE 1. PLANT SCHOLZ SCHEMATIC CLEAR WATER FLOW DIAGRAM

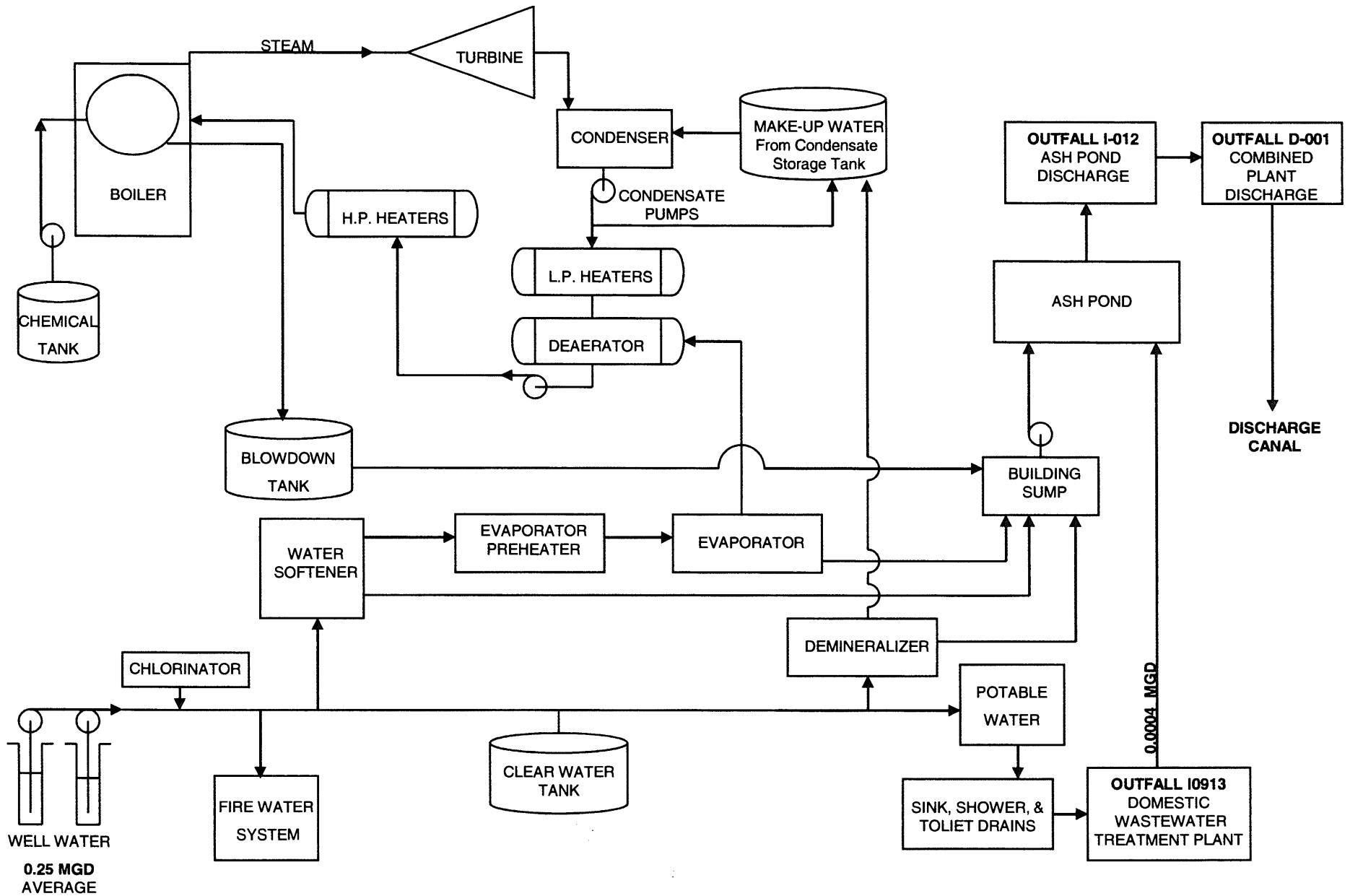
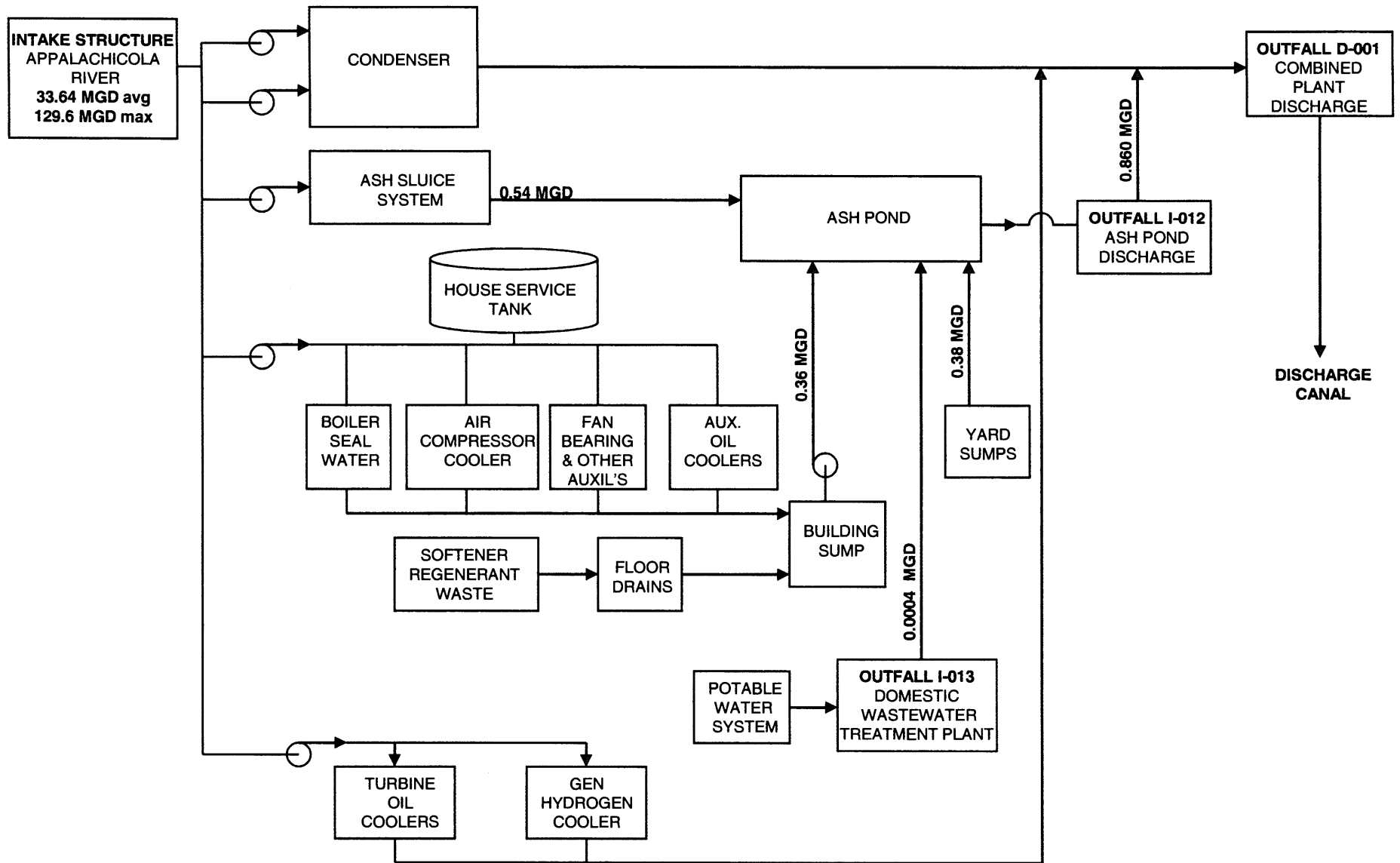


FIGURE 2. PLANT SCHOLZ RIVER WATER FLOW DIAGRAM



(1) Outfall No. (List)	(2) Operation(s) Contributing Flow		(3) Treatment		
	(a) Operation (list)	(b) Avg. Flow & Units	(a) Description	(b) List Code from Table 2CS-1	
D-001	Once through condenser cooling water	33.64 MGD	Discharge to surface water	4-A	
	Ash pond overflow	0.860 MGD	Sedimentation	1-U	
I-012	Ash sluice water	~0.54 MGD	Sedimentation	1-U	
	Building sumps	~0.36 MGD	Sedimentation	1-U	
	Coal pile runoff/yard sumps	~0.38 MGD	Sedimentation	1-U	
	Treated domestic wastewater	~0.0004MGD	Aerobic Digestion/Disinfect/Dechlor	5-A, 2-F	2-E
I-013	Treated domestic wastewater	~0.0004 MGD	Aerobic Digestion	5-A	
			Disinfection (chlorine)	2-F	
			Dechlorination	2-E	

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (complete the following table) ☒ No (go to D. below)

(1) Outfall No. (List)	(2) Operation(s) Contributing Flow(List)	(3) Frequency		(4) Flow				
		(a) Days per Week	(b) Months per Yr.	(a) Flow Rate (in mgd)		(b) Total Volume (specify with units)		(c) Duration (in days)
		(specify avg.)	(specify avg.)	Long Term Avg.	Max. Daily	Long Term Avg.	Max. Daily	

D. Describe practices to be followed to ensure adequate wastewater treatment during emergencies such as power loss and equipment failures causing shutdown of pollution abatement equipment of the proposed/permitted facilities.

E. List the method(s) and location(s) of flow measurement.

V PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ Yes (complete Item V-B) ☐ No (go to Section VI)

B. Are the limitations in the applicable guideline expressed in terms of production (or other measure of operation)?

☐ Yes (complete Item V-C) ☒ No (go to Section VI)

C. If you answered "yes" to Item V-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. Affected Outfalls (list outfall nos.)
a. Quantity per Day	b. Units of Measure	c. Operation, Product, Materials, Etc. (specify)	

SECTION IV-D (page 2CS-19): Describe practices to be followed to ensure adequate wastewater treatment during emergencies such as power loss and equipment failures causing shutdown of pollution abatement equipment of the proposed/permitted facilities.

Back up pumps are available for facility sumps. Question is not applicable for wastewater flows entering ash pond where the method of treatment is sedimentation.

SECTION IV-E (page 2CS-19). List the method(s) and location(s) of flow measurement.

Once-through cooling water flow is calculated using intake pumps logs. Ash pond overflow (Outfall I-012) is calculated using the v-notch weir located at the ash pond discharge weir. Domestic wastewater treatment plant effluent (Outfall I-013) is measured at the wastewater treatment outlet box via flow meter.

VI IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement order, enforcement compliance schedule letter, stipulations, court orders, and grant or loan conditions.

☐ Yes (complete the following table) ☒ No (go to Item VI-B)

1. Identification of Condition, Agreement, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	a. No.	b. Source of Discharge		a. Required	B. Projected

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ Mark "X" if description of additional control programs is attached.

VII INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding--Complete one set of tables for each outfall -- Annotate the outfall number in the space provided. NOTE: Tables VII-A, VII-B, and VII-C are included on separate sheets number VII-1 through VII-9.

D. Use the space below to list any of the pollutants listed in Table 2CS-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. Pollutant	2. Source	1. Pollutant	2. Source
NA			

VIII POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item VII-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or by-product?

☐ YES (list all such pollutants below) ☒ NO (go to IX)

IX BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☒ YES (identify the test(s) and describe their purposes below) ☐ NO (go to Section X)

Acute Toxicity tests were conducted on Outfall D-001 as part of a routine monitoring plan. Test results are attached to this application.

X CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☒ YES (list the name, address, telephone number, and certification number of, and pollutants analyzed by each such laboratory or firm below) ☐ NO (go to Section XI)

A. Name	B. Address	C. Telephone (area code & no.)	D. Pollutants Analyzed (list)
Test America, Inc. Florida DHRS Certification Number E87089	900 Lakeside Dr. Mobile, AL 36693	(251) 666-6633	All parameters analyzed by Test America Laboratories except for pH, Total Residual Chlorine, temperature, and flow. pH and temperature based on historical data.
TRAC Laboratories, Inc.	14 S. 14 th St., Pensacola 32507	(850)456-5836	Acute Toxicity

I CONNECTION TO REGIONAL POTW

A. Indicate the relationship between this project and area regional planning for wastewater treatment. List steps to be taken for this industrial wastewater facility to become part of an area-wide wastewater treatment system.

Wastewater discharged from Plant Scholz consists mainly of once-thru, non-contact cooling water. The plant is located in a remote, rural location with no POTWs located in proximity to the plant. As a result, it would not be practical or feasible to connect Plant Scholz to a POTW.

XII-A CERTIFICATIONS FOR NEW OR MODIFIED FACILITIES

This is to certify the engineering features of this pollution control project have been designed by me and found to be in conformity with sound engineering principles, applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules of the Department. It is also agreed that the undersigned, if authorized by the owner, will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signature

Company Name

Address

Name (please type)

(Affix Seal)

Florida Registration No.:

Telephone No.:

Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name & Official Title (Please type or print)

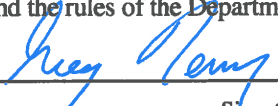
Signature

Telephone No. (area code & No.)

Date Signed

XII-B CERTIFICATIONS FOR PERMIT RENEWALS

This is to certify the engineering features of this pollution control project have been examined by me and found to be in conformity with sound engineering principles, applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules of the Department.

 _____ Signature	<u>Gulf Power Company</u> _____ Company Name
<u>Greg Terry</u> _____ Name (please type)	<u>One Energy Place</u> _____ Address
(Affix Seal)	<u>Pensacola, FL 32520</u> _____ Pensacola, FL 32520
	<u>Florida Registration No.: 52786</u> _____ Florida Registration No.: 52786
	<u>Telephone No.: 850-444-6144</u> _____ Telephone No.: 850-444-6144
	<u>Date 12-8-2009</u> _____ Date 12-8-2009

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

<u>JAMES O. VICK, DIRECTOR</u> _____ Name & Official Title (Please type or print)	 _____ Signature
<u>850-444-6311</u> _____ Telephone No. (area code & No.)	<u>12/8/09</u> _____ Date Signed

PLEASE PRINT OR TYPE ONLY: You may report some or all of this information on separate sheets instead of completing these pages. Use the same format.
SEE INSTRUCTIONS.

VII. INTAKE AND EFFLUENT CHARACTERISTICS

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. Pollutant	2. Effluent						d. No. of Analyses	3.. Units		4. Intake (optional)		
	a. Max. Daily Value		b. Max. 30-day Value		c. Annual Avg. Value			a. Concentration	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
a. Carbonaceous Biochemical Oxygen Demand (CBOD)	<2	<280.76					1	mg/l	lbs/day	<2.0	<280.764	1
b. Chemical Oxygen Demand (COD)	<12	<1684.59					1	mg/l	lbs/day	12	3369.17	1
c. Total Organic Carbon (TOC)	3	842.29					1	mg/l	lbs/day	3.2	898.445	1
d. Total Suspended Solids (TSS)	6	1684.59					1	mg/l	lbs/day	8.0	2246.113	1
e. Total Nitrogen (as N)	0.25	70.19					1	mg/l	lbs/day	0.22	61.768	1
f. Total Phosphorus (as P)	0.026	28.08					1	mg/l	lbs/day	0.026	7.3	1
g. Ammonia (as N)	<0.024	<3.37					1	mg/l	lbs/day	<0.024	<3.369	1
h. Flow - actual or projected	Value 33.64		Value		Value				MGD	Value		
i. Flow - design	Value		Value		Value					Value		
j. Specific Conductivity	Value		Value		Value			umhos/cm		Value		
k. Temperature (winter)	Value40.17		Value		Value			°C		Value		
l. Temperature (summer)	Value42		Value		Value			°C		Value		
m. . pH	Min. 6.91	Max 7.85	Min.	Max.				STANDARD UNITS				

PART B - Mark "X" in column 2a for each pollutant you know or have reason to believe is present. Mark "X" in column 2b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. Pollutant and CAS No. (if available)	2. Mark "X"		3. Effluent						4. Units		5. Intake (optional)			
	a. be- lieved present	b. be- lieved absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
			(1) Conc...	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
a. Bromide (24949-67-9)	☒	☐	<0.01	<1.40					1	mg/l	lbs/day	<0.01	<1.404	1
b. Chlorine, Total Residual	☐	☒	<0.002	NA					1	mg/l	lbs/day	<0.002	NA	1
c. Color	☒	☐	10	NA					1	PCU	NA	10	NA	1
d. Fecal Coliform	☒	☐	6.8	NA					1	MPN	NA	7.8	NA	1
e. Fluoride (16984-48-8)	☐	☒	0.003	0.842					1	mg/l	lbs/day	0.003	0.842	1
f. Nitrate-Nitrite (as N)	☒	☐	0.32	89.85					1	mg/l	lbs/day	0.28	78.614	1

: Item VII-B Contd.

Facility ID. Number FL0002283 Outfall No. D-001

1. Pollutant and CAS No. (if available)	2. Mark "X"		3. Effluent						4. Units		5. Intake (optional)			
	a. believed present	b. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
			(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
g. Nitrogen, Total Organic (as N)	☒	☐	0.25	70.19					1	mg/l	lbs/day	0.22	61.768	1
h. Oil and grease	☐	☒	<3.5	<491.38					1	mg/l	lbs/day	<3.5	<491.337	1
i. Phosphorus, Total (as P) (7723-14-0)	☐	☒	0.026	28.08					1	mg/l	lbs/day	0.026	7.3	1
j. Radioactivity														
(1) Alpha, Total	☒	☐	1.6 +/- 0.5	NA					1	pCi/l	NA	1.4 +/- 0.5	NA	1
(2) Beta, Total	☒	☐	2.6 +/- 0.7	NA					1	pCi/l	NA	3 +/- 0.7	NA	1
(3) Radium, Total	☒	☐	0.1+/- 0.1	NA					1	pCi/l	NA	0.0 +/- 0.08	NA	1
(4) Radium 226, Total	☒	☐	0.3 +/- 0.4	NA					1	pCi/l	NA	0.1+/-0.3	NA	1
k. Sulfate (as SO ₄) (14808-79-8)	☐	☒	7.3	2049.58					1	mg/l	lbs/day	6.1	1712.661	1
l. Sulfide (as S)	☐	☒	<0.036	<5.05					1	mg/l	lbs/day	<0.036	<5.054	1
m. Sulfite (as SO ₃) (14265-45-3)	☒	☐	0.86	241.46					1	mg/l	lbs/day	0.86	241.457	1
n. Surfactants	☐	☒	<0.068	<9.55					1	mg/l	lbs/day	<0.068	<9.546	1
o. Aluminum, Total (7429-90-5)	☒	☐	0.15	42.12					1	mg/l	lbs/day	0.13	36.499	1
p. Barium, Total (7440-39-3)	☒	☐	0.025	7.02					1	mg/l	lbs/day	0.024	6.738	1
q. Boron, Total (7440-42-8)	☒	☐	36	10.108					1	ug/l	lbs/day	23	6.458	1
r. Cobalt, Total (7440-48-4)	☐	☒	0.055	0.015					1	ug/l	lbs/day	0.055	0.015	1
s. Iron, Total (7439-89-6)	☒	☐	290	81.42					1	ug/l	lbs/day	300	84.229	1
t. Maagnesium, Total (7439-95-4)	☒	☐	2200	617.68					1	ug/l	lbs/day	1900	533.452	1
u. Molybdenum, Total (7439-98-7)	☐	☒	0.1	0.028					1	ug/l	lbs/day	0.1	0.028	1
v. Manganese, Total (7439-96-5)	☒	☐	91	25.55					1	ug/l	lbs/day	89	24.988	1
w. Tin, Total (7440-31-5)	☒	☐	8.4	2.358					1	ug/l	lbs/day	<0.6	<0.084	1
x. Titanium, Total (7440-32-6)	☒	☐	6.2	1.74					1	ug/l	lbs/day	4.9	1.376	1

Facility ID. Number: FL0002283 Outfall No. D-001

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2a for all GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2a (secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2b for each pollutant you know or have reason to believe is present. Mark "X" in column 2c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	☒	☐	☐	0.05	0.014					1	ug/l	lbs/day	0.05	0.014	1
2M. Arsenic, Total (7723-14-0)	☒	☐	☐	1.7	0.477					1	ug/l	lbs/day	0.5	0.14	1
3M. Beryllium, Total (7440-41-7)	☒	☐	☐	<0.07	<0.01					1	ug/l	lbs/day	<0.07	<0.010	1
4M. Cadmium, Total (7440-43-9)	☒	☐	☐	<0.06	<0.008					1	ug/l	lbs/day	<0.06	<0.008	1
5M. Chromium, Total (7440-47-3)	☒	☐	☐	<2.5	<0.351					1	ug/l	lbs/day	<2.5	<0.351	1
6M. Copper, Total (7440-50-8)	☒	☐	☐	1.1	0.309					1	ug/l	lbs/day	0.3	0.084	1
7M. Lead, Total (7439-92-1)	☒	☐	☐	0.1	0.028					1	ug/l	lbs/day	0.1	0.028	1
8M. Mercury, Total (7439-97-6)	☒	☐	☐	<0.16	<0.022					1	ug/l	lbs/day	<0.16	<0.022	1
9M. Nickel, Total (7440-02-0)	☒	☐	☐	0.5	0.14					1	ug/l	lbs/day	0.5	0.14	1
10M. Selenium, Total (7782-49-2)	☒	☐	☐	<0.3	<0.042					1	ug/l	lbs/day	<0.3	<0.042	1
11M. Silver, Total (7440-22-4)	☒	☐	☐	<0.05	<0.007					1	ug/l	lbs/day	<0.05	<0.007	1
12M. Thallium, Total (7440-28-0)	☒	☐	☐	<0.4	<0.056					1	ug/l	lbs/day	<0.4	<0.056	1
13M. Zinc, Total (7440-66-6)	☒	☐	☐	<4.5	<0.632					1	ug/l	lbs/day	11	3.088	1
14M. Cyanide, Total (57-12-5)	☒	☐	☐	<6	<0.842					1	ug/l	lbs/day	<6	<0.842	1
15M. Phenols, Total	☒	☐	☐	<3	<0.421					1	ug/l	lbs/day	<3	<0.421	1
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)	☒	☐	☐							1	pg/l	lbs/day			1
1V. Acrolein (107-02-8)	☒	☐	☐	<2.8	<0.393					1	ug/l	lbs/day	<2.8	<0.393	1
2V. Acrylonitrile (107-13-1)	☒	☐	☐	<5.4	<0.758					1	ug/l	lbs/day	<5.4	<0.758	1

Facility ID. Number: FL0002283 Outfall No. D-001

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)															
3V. Benzene (71-43-2)	☒	☐	☐	<0.49	<0.069					1	ug/l	lbs/day	<0.49	<0.069	1
4V. Bis (Chloromethyl) Ether (542-88-1)	☐	☐	☐	NA	NA						ug/l	lbs/day	NA	NA	
5V. Bromoform (75-25-2)	☒	☐	☐	<0.9	<0.126					1	ug/l	lbs/day	<0.9	<0.126	1
6V. Carbon Tetrachloride (56-23-5)	☒	☐	☐	<0.76	<0.107					1	ug/l	lbs/day	<0.76	<0.107	1
7V Chlorobenzene (108-90-7)	☒	☐	☐	<0.93	<0.131					1	ug/l	lbs/day	<0.93	<0.131	1
8V. Chlorodi-bromomethane (124-8-1)	☒	☐	☐	<0.75	<0.105					1	ug/l	lbs/day	<0.75	<0.105	1
9V. Chloroethane (74-00-3)	☒	☐	☐	<0.53	<0.074					1	ug/l	lbs/day	<0.53	<0.074	1
10V. 2-Chloro-ethylvinyl Ether (110-75-8)	☒	☐	☐	<3.3	<0.463					1	ug/l	lbs/day	<3.3	<0.463	1
11V. Chloroform (67-86-3)	☒	☐	☐	<0.42	<0.059					1	ug/l	lbs/day	<0.42	<0.059	1
12V. Dichloro-bromomethane (75-24-4)	☒	☐	☐	<0.67	<0.094					1	ug/l	lbs/day	<0.67	<0.094	1
13V. Dichloro-difluoromethane (75-71-8)	☐	☐	☐	<0.54	<0.076					1	ug/l	lbs/day	<0.54	<0.076	1
14V. 1,1-Dichloroethane (75-34-3)	☒	☐	☐	<0.5	<0.07					1	ug/l	lbs/day	<0.5	<0.07	1
15V. 1,2-Dichloroethane (107-06-2)	☒	☐	☐	<0.44	<0.062					1	ug/l	lbs/day	<0.44	<0.062	1
16V. 1,1-Dichloroethylene (75-35-4)	☒	☐	☐	<0.57	<0.08					1	ug/l	lbs/day	<0.57	<0.08	1
17V. 1,2,-Dichloropropane (78-87-5)	☒	☐	☐	<0.49	<0.069					1	ug/l	lbs/day	<0.49	<0.069	1
18V. 1,3-Dichloropropylene (542-75-6)	☒	☐	☐	<0.65	<0.091					1	ug/l	lbs/day	<0.65	<0.091	1
19V. Ethylbenzene (100-41-4)	☒	☐	☐	<0.67	<0.094					1	ug/l	lbs/day	<0.67	<0.094	1
20V. Methyl Bromide (74-83-9)	☒	☐	☐	<0.5	<0.07					1	ug/l	lbs/day	<0.5	<0.07	1
21V. Methyl Chloride (74-87-3)	☒	☐	☐	<0.43	<0.06					1	ug/l	lbs/day	<0.43	<0.06	1
22V. Methylene Chloride (74-98-2)	☒	☐	☐	<0.38	<0.053					1	ug/l	lbs/day	<0.38	<0.053	1
23V. 1,1,2,2-Tetra-chloroethane (79-34-5)	☒	☐	☐	<0.99	<0.139					1	ug/l	lbs/day	<0.99	<0.139	1
24V. Tetrachloroethylene (127-18-4)	☒	☐	☐	<0.57	<0.08					1	ug/l	lbs/day	<0.57	<0.08	1

Facility ID. Number: FL0002283 Outfall No. D-001

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)															
25V. Toluene (108-88-3)	☒	☐	☐	<0.51	<0.072					1	ug/l	lbs/day	<0.51	<0.072	1
26V. 1,2-Trans-Dichloroethylene (156-60-5)	☒	☐	☐	<0.44	<0.062					1	ug/l	lbs/day	<0.44	<0.062	1
27V. 1,1,2-Trichloroethane (71-55-6)	☒	☐	☐	<0.86	<0.121					1	ug/l	lbs/day	<0.86	<0.121	1
28V. 1,1,2-Trichloroethane (79-00-5)	☒	☐	☐	<0.86	<0.121					1	ug/l	lbs/day	<0.86	<0.121	1
29V. Trichloroethylene (79-01-6)	☒	☐	☐	<0.49	<0.069					1	ug/l	lbs/day	<0.49	<0.069	1
30V. Trichlorofluoromethane (75-69-4)	☒	☐	☐	<0.48	<0.067					1	ug/l	lbs/day	<0.48	<0.067	1
31V. Vinyl Chloride (75-01-4)	☒	☐	☐	<0.54	<0.076					1	ug/l	lbs/day	<0.54	<0.076	1
1A. 2-Chlorophenol (95-57-8)	☒	☐	☐	<4	<0.562					1	ug/l	lbs/day	<3	<0.421	1
2A. 2,4-Dichlorophenol (120-83-2)	☒	☐	☐	<3.7	<0.519					1	ug/l	lbs/day	<2.8	<0.393	1
3A. 2,4-Dimethylphenol (105-67-9)	☒	☐	☐	<4.2	<0.59					1	ug/l	lbs/day	<3.2	<0.449	1
4A. 4,6-Dinitro-O-Cresol (534-53-1)	☒	☐	☐	<4.1	<0.576					1	ug/l	lbs/day	<3.1	<0.435	1
5A. 2,4-Dinitrophenol (51-28-5)	☒	☐	☐	<3.4	<0.477					1	ug/l	lbs/day	<2.6	<0.365	1
6A. 2-Nitrophenol (88-75-5)	☒	☐	☐	<3.2	<0.449					1	ug/l	lbs/day	<2.4	<0.337	1
7A. 4-Nitrophenol (100-02-7)	☒	☐	☐	<2.8	<0.393					1	ug/l	lbs/day	<2.1	<0.295	1
8A P-Chloro-M-Cresol (59-50-7)	☒	☐	☐	<4.8	<0.674					1	ug/l	lbs/day	<3.7	<0.519	1
9A Pentachlorophenol (87-86-5)	☒	☐	☐	<3.6	<0.505					1	ug/l	lbs/day	<2.7	<0.379	1
10A Phenol (108-95-2)	☒	☐	☐	<5	<0.702					1	ug/l	lbs/day	<3.8	<0.533	1
11A 2,4,5-Trichlorophenol (88-06-2)	☒	☐	☐	<6.5	<0.912					1	ug/l	lbs/day	<5	<0.702	1
1B. Acenaphthene (63-32-9)	☒	☐	☐	<4.6	<0.646					1	ug/l	lbs/day	<3.5	<0.491	1
2B. Acenaphthylene (208-96-8)	☒	☐	☐	<6.5	<0.912					1	ug/l	lbs/day	<5	<0.702	1
3B. Anthracene (120-12-7)	☒	☐	☐	<4.3	<0.604					1	ug/l	lbs/day	<3.3	<0.463	1
4B. Benzidine (92-87-5)	☒	☐	☐	<17	<2.386					1	ug/l	lbs/day	<13	<1.825	1

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a . testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
5B. Benzo (a) Anthracene (56-55-3)	☒	☐	☐	<5.5	<0.772					1	ug/l	lbs/day	<4.2	<0.59	1
6B. Benzo (a) Pyrene (50-32-8)	☒	☐	☐	<6.5	<0.912					1	ug/l	lbs/day	<5	<0.702	1
7B. 3,4-Benzo-fluoranthene (205-99-2)	☒	☐	☐	<5.5	<0.772					1	ug/l	lbs/day	<4.2	<0.59	1
8B. Benzo (ghi) Perylene (191-24-2)	☒	☐	☐	<5	<0.702					1	ug/l	lbs/day	<3.8	<0.533	1
9B. Benzo (k) Fluoranthene (207-08-9)	☒	☐	☐	<6	<0.842					1	ug/l	lbs/day	<4.6	<0.646	1
10B. Bis (2-Chloroethoxy) Methane (111-91-1)	☒	☐	☐	<9.5	<1.334					1	ug/l	lbs/day	<7.2	<1.011	1
11B. Bis (2-chloroethyl) Ether (111-44-4)	☒	☐	☐	<3.9	<0.547					1	ug/l	lbs/day	<3	<0.421	1
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)	☒	☐	☐	<2.6	<0.365					1	ug/l	lbs/day	<2	<0.281	1
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	☒	☐	☐	<11	<1.544					1	ug/l	lbs/day	<8.4	<1.179	1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	☒	☐	☐	<4.5	<0.632					1	ug/l	lbs/day	<3.4	<0.477	1
15B Butyl Benzyl Phthalate (84-68-7)	☒	☐	☐	<5.5	<0.772					1	ug/l	lbs/day	<4.2	<0.59	1
16B. 2-Chloronaphthalene (91-58-7)	☒	☐	☐	<4	<0.562					1	ug/l	lbs/day	<3	<0.421	1
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	☒	☐	☐	<4.1	<0.576					1	ug/l	lbs/day	<3.1	<0.435	1
18B. Chrysene (218-01-9)	☒	☐	☐	<5.5	<0.772					1	ug/l	lbs/day	<4.2	<0.59	1
19B. Dibenzo (a,h) Anthracene (53-70-3)	☒	☐	☐	<4.6	<0.646					1	ug/l	lbs/day	<3.5	<0.491	1
20B. 1,2-Dichlorobenzene (95-50-1)	☒	☐	☐	<4.6	<0.646					1	ug/l	lbs/day	<3.5	<0.491	1
21B. 1,3-Dichlorobenzene (541-73-1)	☒	☐	☐	<4.2	<0.59					1	ug/l	lbs/day	<3.2	<0.449	1
22B. 1,4-Dichlorobenzene (106-46-7)	☒	☐	☐	<4.4	<0.618					1	ug/l	lbs/day	<3.4	<0.477	1
23B. 3,3'-Dichlorobenzidine (92-94-1)	☒	☐	☐	<10	<1.404					1	ug/l	lbs/day	<7.6	<1.067	1
24B. Diethyl Phthalate (84-66-2)	☒	☐	☐	<5.5	<0.772					1	ug/l	lbs/day	<4.2	<0.59	1
25B. Dimethyl Phthalate (131-11-3)	☒	☐	☐	<4.9	<0.688					1	ug/l	lbs/day	<3.7	<0.519	1
26B. Di-N-Butyl Phthalate (84-74-2)	☒	☐	☐	<10	<1.404					1	ug/l	lbs/day	<7.6	<1.067	1
27B. 2,4-Dinitrotoluene (121-14-2)	☒	☐	☐	<4.1	<0.576					1	ug/l	lbs/day	<3.1	<0.435	1
28B. 2,6-Dinitrotoluene (606-20-2)	☒	☐	☐	<4.2	<0.59					1	ug/l	lbs/day	<3.2	<0.449	1

Facility ID. Number: FL0002283 Outfall No. D-001

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent								4. Units		5. Intake (optional)		
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses		a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass					(1) Conc.	(2) Mass	
29B. Di-N-Octyl Phthalate (117-84-0)	☒	☐	☐	<7	<0.983					1		ug/l	lbs/day	<5.3	<0.744	1
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	☒	☐	☐	<10	<1.404					1		ug/l	lbs/day	<7.6	<1.067	1
31B. Fluoranthene (206-44-0)	☒	☐	☐	<4.9	<0.688					1		ug/l	lbs/day	<3.7	<0.519	1
32B. Fluorene (86-73-7)	☒	☐	☐	<4.3	<0.604					1		ug/l	lbs/day	<3.3	<0.463	1
33B. Hexachlorobenzene (118-74-1)	☒	☐	☐	<4	<0.562					1		ug/l	lbs/day	<3	<0.421	1
34B. Hexachlorobutadiene (87-68-3)	☒	☐	☐	<4.6	<0.646					1		ug/l	lbs/day	<3.5	<0.491	1
35B. Hexachlorocyclopentadiene (77-47-4)	☒	☐	☐	<3	<0.421					1		ug/l	lbs/day	<2.3	<0.323	1
36B. Hexachloroethane (67-72-1)	☒	☐	☐	<4.9	<0.688					1		ug/l	lbs/day	<3.7	<0.519	1
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	☒	☐	☐	<5.5	<0.772					1		ug/l	lbs/day	<4.2	<0.59	1
38B. Isophorone (78-59-1)	☒	☐	☐	<4.8	<0.674					1		ug/l	lbs/day	<3.7	<0.519	1
39B. Naphthalene (91-20-3)	☒	☐	☐	<3.8	<0.533					1		ug/l	lbs/day	<2.9	<0.407	1
40B. Nitrobenzene (98-95-9)	☒	☐	☐	<3.3	<0.463					1		ug/l	lbs/day	<2.5	<0.351	1
41B N-Nitrosodimethylamine (62-75-9)	☒	☐	☐	<4.4	<0.618					1		ug/l	lbs/day	<3.4	<0.477	1
42B. N-Nitrosodi-N-Propylamine (621-64-7)	☒	☐	☐	<4.2	<0.59					1		ug/l	lbs/day	<3.2	<0.449	1
43B. N-Nitro-sodiphenylamine (86-30-6)	☒	☐	☐	<12	<1.685					1		ug/l	lbs/day	<9.1	<1.277	1
44B Phenanthrene (85-01-8)	☒	☐	☐	<5	<0.702					1		ug/l	lbs/day	<3.8	<0.533	1
45B. Pyrene (129-00-0)	☒	☐	☐	<8	<1.123					1		ug/l	lbs/day	<6.1	<0.856	1
46B. 1,2,4-Trichlorobenzene (120-82-1)	☒	☐	☐	<4	<0.562					1		ug/l	lbs/day	<3	<0.421	1
1P. Aldrin (309-00-2)	☐	☐	☒	<0.0045	<0.001					1		ug/l	lbs/day	<0.0045	<0.001	1
2P. -BHC (319-84-6)	☐	☐	☒	<0.0056	<0.001					1		ug/l	lbs/day	<0.0056	<0.001	1
3P -BHC (319-85-7)	☐	☐	☒	<0.0036	<0.001					1		ug/l	lbs/day	<0.0036	<0.001	1
4P. -BHC (58-89-9)	☐	☐	☒	<0.01	<0.001					1		ug/l	lbs/day	<0.01	<0.001	1
5P. -BHC (319-86-8)	☐	☐	☒	<0.0049	<0.001					1		ug/l	lbs/day	<0.0049	<0.001	1

Facility ID. Number: FL0002283 Outfall No. D-001

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units			5. Intake (optional)		
	a . testing required	b. be- lieved present	c. be- lieved absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
6P. Chlordane (57-74-9)	☐	☐	☒	<0.032	<0.004					1	ug/l	lbs/day	<0.032	<0.004	1
7P. 4,4'-DDT (50-29-3)	☐	☐	☒	<0.0084	<0.001					1	ug/l	lbs/day	<0.0084	<0.001	1
8P. 4,4'-DDE (72-55-9)	☐	☐	☒	<0.0064	<0.001					1	ug/l	lbs/day	<0.0064	<0.001	1
9P. 4,4'-DDD (72-54-8)	☐	☐	☒	<0.0076	<0.001					1	ug/l	lbs/day	<0.0076	<0.001	1
10P. Dieldrin (60-57-1)	☐	☐	☒	<0.0074	<0.001					1	ug/l	lbs/day	<0.0074	<0.001	1
11P. -Endosulfan (115-29-7)	☐	☐	☒	<0.0044	<0.001					1	ug/l	lbs/day	<0.0044	<0.001	1
12P. -Endosulfan (115-29-7)	☐	☐	☒	<0.0047	<0.001					1	ug/l	lbs/day	<0.0047	<0.001	1
13P. Endosulfan Sulfate (1031-07-8)	☐	☐	☒	<0.009	<0.001					1	ug/l	lbs/day	<0.009	<0.001	1
14P. Endrin (72-20-8)	☐	☐	☒	<0.0067	<0.001					1	ug/l	lbs/day	<0.0067	<0.001	1
15P. Endrin Aldehyde (7421-92-4)	☐	☐	☒	<0.0069	<0.001					1	ug/l	lbs/day	<0.0069	<0.001	1
16P. Heptachlor (76-44-8)	☐	☐	☒	NA	NA						ug/l	lbs/day	NA	NA	
17P. Heptachlor Epoxide (1024-57-3)	☐	☐	☒	NA	NA						ug/l	lbs/day	NA	NA	
18P. PCB-1242 (53469-21-9)	☐	☐	☒	<0.18	<0.025					1	ug/l	lbs/day	<0.18	<0.025	1
19P. PCB-1254 (11097-69-1)	☐	☐	☒	<0.12	<0.017					1	ug/l	lbs/day	<0.12	<0.017	1
20P. PCB-1221 (11104-28-2)	☐	☐	☒	<0.17	<0.024					1	ug/l	lbs/day	<0.17	<0.024	1
21P. PCB-1232 (11141-16-5)	☐	☐	☒	<0.13	<0.018					1	ug/l	lbs/day	<0.13	<0.018	1
22P. PCB-1248 (12672-29-6)	☐	☐	☒	<0.14	<0.020					1	ug/l	lbs/day	<0.14	<0.020	1
23P. PCB-1260 (11096-82-5)	☐	☐	☒	<0.12	<0.017					1	ug/l	lbs/day	<0.12	<0.017	1
24P. PCB-1016 (12674-11-2)	☐	☐	☒	<0.11	<0.015					1	ug/l	lbs/day	<0.11	<0.015	1
25P. Toxaphene (8001-35-2)	☐	☐	☒	<0.31	<0.044					1	ug/l	lbs/day	<0.31	<0.044	1



State of Florida Wastewater Whole Effluent Toxicity Testing Report Form

Please complete this form in its entirety. Items that do not apply should be filled in with "N/A" or a line drawn through the blank. Please print.

ATTACHMENTS: Please attach the following items to this report and indicate with an "X" in the box.

1. All Chain-of Custody Forms	☒
2. All Reference Toxicant Data for each Organism used in the Test and Current Control Charts for each organism	☒
3. All Raw Data (Bench Sheets) Pertaining to the Tests (i.e., all physical, chemical, and biological measurements)	☒
4. All Result Calculations	☒

Facility or Industry (Client Name)	Gulf Power Company Plant Scholz Intake and Discharge	NPDES Number	FL0002283	County	
		Non-NPDES ⁽¹⁾	☐ Yes ☐ Project		

Name, Address, &
Phone Number of

TRAC Laboratories, Inc.
14 S. 2nd Street
Pensacola, FL 32507
850-456-5836

Date Test(s) Conducted:

Start Date:	14 Aug 09	Start time:	1145
End Date:	18 Aug 09		

Consultant Company

Names of Person(s) Conducting Test(s):
(Printed)

Dan Johnson

QA/QC Officer/Reviewer:
Signature

Digitally signed by Daniel
E. Johnson
Date: 2009.08.20 18:53:26
-05'00'

Date:

Laboratory Report #/
Project #

36S-5290
36S-5290-5297

Sampler's name:
(Print)

Sara Brock

Routine Test

☒

Additional

☐

For Failed Test Dated:

Samples							
#	Date and Time Collected	Lab Sample #	Sample Type: Grab or Composite	Arrival Temp, °C	Initial Residual Chlorine(mg/L)	Lab Dechlorination	Chemical Used
1	08-12-09 / 1915	5290	Grab	1.6	0.06	NA	NA
2	08-13-09 / 0115	5291	Grab	1.6	0.02	NA	NA
3	08-13-09 / 0715	5292	Grab	1.6	0.02	NA	NA
4	08-13-09 / 1315	5293	Grab	1.6	0.02	NA	NA
5	08-12-09 / 1915	5294	Grab	1.6	0.04	NA	NA
6	08-13-09 / 0115	5295	Grab	1.6	0.04	NA	NA
7	08-13-09 / 0715	5296	Grab	1.6	0.04	NA	NA
8	08-13-09 / 1315	5297	Grab	1.6	0.03	NA	NA

Type of Refrigerant Used for
Sample Transportation:

☒

Wet Ice

☐

Other
(Describe)

Samples
Aerated:

☒

YES
Describe*

☐

NO

Samples Delivered By:

☐

Bus

☒

Hand

☐

Common Carrier

Samples
Filtered

☐

YES
Describe*

☒

NO

* Provide Description: Samples were aerated, when necessary, to reduce DO to $\leq 100\%$ of saturation.

(1) If toxicity testing data are reported for any project other than permit compliance testing, mark "yes" and identify the reason that toxicity data are being submitted, e.g., Consent Order, ambient monitoring, mixing zone evaluation.

Summary of Test Conditions											
Type of Test (1)	Test Conc. [% effluent] (2)	Test Species Used (3)	Age of Test Organism	Amount & Type Food	How Often Fed	Test Chamber Volume	Volume of Effluent Used	Type of Chamber	# of Organisms/ Chamber	# of Replicates	Temp Range (Degrees Celsius)
A	0, 100	CL	11 days	0.2mL/ <i>Artemia</i>	Once at 48 hrs	500 mL	250 mL	Plastic cup	10	2	19-21
A	0, 100	CD	< 24 hrs	0.1 mL/ Algae & YCT	Once at 48 hrs	30 mL	15 mL	Plastic cup	5	4	19-21

E. Other⁽¹⁾

Temperature Readings Were:

☐

Single

☒

Multiple

☐

Continuous

Description of Control Water:

Reconstituted Freshwater with a hardness of 80 mg/L CaCO₃

Photoperiod During Test:

16 hours light : 8 hours dark

Reference Toxicant Data (4)				
Name of Toxicant	Dates of Test Begin and End	Species (3)	In-house or Commercially Obtained	LC50/ IC25
NaCl	27 – 29 Jul 09	CL	In-house	LC50 = 6082 mg/L
NaCl	27 – 29 Jul 09	CD	In-house	LC50 = 2160 mg/L

(1) Please fill the "Type of Test" Box with the Appropriate Letter:

- A. 96-hour/ Renewed Every 48 hours/Single Concentration (Screen)
- B. 96-hour/ Renewed Every 48 hours/Multi-Concentration (Definitive)
- C. 7-Day Chronic/Single Concentration (Screen)/Renewed Daily
- D. 7-Day Chronic/Multi-Concentration (Definitive)/Renewed Daily
- E. OTHER -Describe in the "E" box

(2) List all concentrations of effluent used (e.g., 0%, 6.25%, 12.5%, 25%, 50%, 100%)

(3) Write the Appropriate Letters for the following species in this column:

- CD *Ceriodaphnia dubia*
- FM *Pimephales promelas* (fathead minnow)
- SS *Menidia beryllina* (inland silverside)
- MS *Americamysis bahia* (formerly *Mysidopsis bahia*, mysid shrimp)
- CL *Cyprinella leedsii* (bannerfin shiner)
- Other- Please describe _____

(4) Attach all reference toxicant raw data and control charts for each organism/reference toxicant used for the test.

Test Results ACUTE					
Test Species	Test Concentration (2) (% Effluent)	Sample Type/Number (3)	% Mortality 48 Hours (4)	% Mortality 96 Hours (4)	LC ₅₀ (5)
Control (1)	0	NA	0	0	NA
CL	100	Grab 1	0	5	NA
CL	100	Grab 2	0	5	NA
CL	100	Grab 3	0	0	NA
CL	100	Grab 4	0	5	NA
Control (1)	0	NA	0	0	NA
CD	100	Grab 1	10	10	NA
CD	100	Grab 2	0	0	NA
CD	100	Grab 3	0	0	NA
CD	100	Grab 4	0	0	NA

- (1) List % control mortality in appropriate column (48- or 96-hr) for organisms (use abbreviations shown on footnote 3, page 2) that you list under the word "Control." Control mortality must not exceed 10% for valid acute test.
- (2) List all concentrations of effluent used (e.g., 0%, 6.25%, 12.5%, 25%, 50%, 100%).
- (3) Record the sample type as "grab" or "composite" and number that corresponds with the number of the sample in the "Date and Time Collected" column in the sample section on Page 1.
- (4) List % Mortalities for each organism and control if you are conducting a single concentration (Screen) test.
- (5) If multi-concentration (Definitive) tests are conducted on grab or composite samples, record the calculated LC₅₀ in the column for each sample. If the mortality distribution of the definitive test series is insufficient to calculate an endpoint (LC₅₀), enter "INS" in the column.

Species	LC50
CL	>100%
CD	>100%

- (6) If a single concentration (Screen) test is conducted and >50% mortality occurs in any one of the four samples, record < 100% in this box. If ≤50% mortality occurs in all four samples, record >100% in this box.

Test Results ACUTE					
Test Species	Test Concentration (2) (% Effluent)	Sample Type/Number (3)	% Mortality 48 Hours (4)	% Mortality 96 Hours (4)	LC ₅₀ (5)
Control (1)	0	NA	0	0	NA
CL	100	Grab 5	0	0	NA
CL	100	Grab 6	0	0	NA
CL	100	Grab 7	0	0	NA
CL	100	Grab 8	0	0	NA
Control (1)	0	NA	0	0	NA
CD	100	Grab 5	0	0	NA
CD	100	Grab 6	0	0	NA
CD	100	Grab 7	5	5	NA
CD	100	Grab 8	0	0	NA

- (1) List % control mortality in appropriate column (48- or 96-hr) for organisms (use abbreviations shown on footnote 3, page 2) that you list under the word "Control." Control mortality must not exceed 10% for valid acute test.
- (2) List all concentrations of effluent used (e.g., 0%, 6.25%, 12.5%, 25%, 50%, 100%).
- (3) Record the sample type as "grab" or "composite" and number that corresponds with the number of the sample in the "Date and Time Collected" column in the sample section on Page 1.
- (4) List % Mortalities for each organism and control if you are conducting a single concentration (Screen) test.
- (5) If multi-concentration (Definitive) tests are conducted on grab or composite samples, record the calculated LC₅₀ in the column for each sample. If the mortality distribution of the definitive test series is insufficient to calculate an endpoint (LC50), enter "INS" in the column.

Species	LC50
CL	>100%
CD	>100%

- (6) If a single concentration (Screen) test is conducted and >50% mortality occurs in any one of the four samples, record < 100% in this box. If ≤50% mortality occurs in all four samples, record >100% in this box.

Test Results CHRONIC					
Test Species (1)	Test Concentration (2) (% effluent)	NOEC Survival (3)	NOEC Growth (3)	NOEC Reproduction (3)	NOEC Fecundity (3)

- (1) Use abbreviations shown on Footnote 3, Page 2.
- (2) List all concentrations of effluent used (e.g., 0%, 6.25%, 12.5%, 25%, 50%, 100%).
- (3)a. For single concentration tests (Screen), if there is a significant difference (at $P=0.05$) between survival, growth, reproduction, or fecundity in 100% effluent and control, record <100% in the proper column. If there is not a significant difference between survival, growth, reproduction, or fecundity in 100% effluent and control, record > 100% in the proper column.
- b. For multi-concentration tests (Definitive), record the calculated NOEC in the proper column.

Test Acceptability Criteria

% CD Survival in Control
(> 80%)

Average number of Young per female in CD Control
(min 15 young/surviving female)

% FM Survival in Control
(>80%)

Average FM Dry Weight in Control
(min ADW 0.25 mg/FM in surviving controls)

% MS Survival in Control
(> 80%)

Average MS Dry Weight in Control
(min ADW 0.20 mg/MS in surviving controls)

Egg Production in MS by 50% of Females (Y/N)

% SS Survival in Control
(>80%)

Average SS Dry Weight in Control
(min immediate ADW 0.50 mg/SS in surviving controls)
(min preserved ADW 0.43/SS in surviving controls)

**Acute, Screening Toxicity Test Results
of Intake and Discharge Samples from the Gulf Power, Plant Scholz
Using *Cyprinella leedsi*
and *Ceriodaphnia dubia***

Submitted to:

**James Douglas
Southern Company Generation
42 Inverness Center Parkway, Bin B426
Birmingham, Alabama 35242**

Submitted by:

**TRAC Laboratories, Inc.
14 S. 2nd Street
Pensacola, Florida 32507
(850) 456-5836**

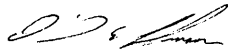
Florida Department of Health and Rehabilitative Services
Certification Number E81181

**Project Number: 36S-5290-5297
Report Number: 36S-5290**

Project Date: August 2009

Statement of Quality Assurance

This Study was reviewed by the Laboratory Director to ensure that procedures outlined in TRAC's QA plan, approved through Florida's Department of Environmental Protection, were followed. The final report is an accurate reflection of the raw data and meets NELAP standards.



Digitally signed
by Daniel E.
Johnson

Date: 2009.08.20
18:53:58 -05'00'

Daniel E. Johnson, Laboratory Director

Toxicity Test Summary Sheet

Client: Gulf Power Company, Plant Scholz

Permit Number: FL0002283

Client Contact: James Douglas

Project Numbers: 36S-5290-5297

Study Directors: Dan Johnson

Test Material: Four intake samples and four discharge samples

Description: Colorless, odorless liquids

Date Material Received: 14 August 2009

Test Dates: 14 through 18 August 2009

Test Conditions: Static renewal, 96-hour duration

Test Procedure: Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (USEPA, 2002, EPA-821-R-02-012).

Test Animals: *Cyprinella leedsi*, 11 days old at test initiation, Lot No. CL-09-F4
Ceriodaphnia dubia, <24 hours old at test initiation, Lot No. CD-09-C12, CD-09-F12 and CD-09-G12

Source: *C. leedsi* and *C. dubia* were obtained from TRAC Laboratory's culture facilities.

Control Water: Moderately hard reconstituted freshwater

Test Effluent Concentration: 0 and 100%

Effect Criterion: Mortality

Results:
Cyprinella leedsi
No acute effects were observed. Five percent mortality occurred in discharge samples 5290, 5291 and 5293.
Ceriodaphnia dubia
No acute effects were observed. A maximum of 10% mortality occurred in discharge sample 5290.

INTRODUCTION

Static, freshwater screening toxicity tests were conducted at TRAC Laboratories in Pensacola, Florida, to examine acute effects of 4 intake and 4 discharge samples from the Gulf Power Company, Plant Scholz on *Cyprinella leedsii* and *Ceriodaphnia dubia*. The criterion for effect was mortality. Tests were conducted from 14 through 18 August 2009. All original raw data related to this study are stored by TRAC; however, copies are provided as Appendix A. This report consists of a total of 42 pages.

MATERIAL AND METHODS

Test Material

Four each intake and discharge samples were received by TRAC personnel from the Gulf Power Plant Scholz on 14 August 2009, and were each contained in one 2.0 liter (L) HDPE container. The containers were completely full of sample and intact upon arrival. The samples were grab samples received at a temperature of 1.6 Celsius ($^{\circ}\text{C}$). Upon arrival, the samples were characterized for pH, hardness, alkalinity and total residual chlorine (Tables 1 and 2).

Control Water

The control water for both species was moderately hard reconstituted freshwater (RCF, USEPA, 2002). Hardness of the RCF was 80 mg/L as CaCO_3 on day 0.

Test Conditions

The *C. leedsii* and *C. dubia* tests were conducted in an environmental chamber in which the temperature was consistently maintained between 19.0 - 21.0 $^{\circ}\text{C}$. Test containers for *C. leedsii* were 0.5 L plastic containers which contained 0.25 L of test solution or control water. *C. leedsii* treatments were duplicated with 10 test animals per replicate, resulting in 20 animals per treatment. Test containers for *C. dubia* were 30 mL plastic cups which contained 15 mL of test solution. *C. dubia* treatments consisted of 4 replicates with 5 animals per replicate, resulting in 20 animals per treatment.

Dissolved oxygen, pH and temperature were measured in each treatment initially and one replicate of all *C. leedsii* treatments daily. Conductivity was measured in each treatment initially and at 48 hours. Measurements were recorded in *C. dubia* treatments initially, at 48 hours and at test termination, as measurements in test vessels containing *C. dubia* can damage and/or remove test organisms thus invalidating results. Measurements in *C. dubia* treatments at 24 and 72 hours were obtained from blank solutions to which no *C. dubia* were added. Survival of test organisms was recorded at 24-hour intervals.

Test Organisms

Cyprinella leedsii (Lot No. CL-09-F4) were obtained from TRAC's culture facility. The fish were acclimated to control water and were 11 days old at test initiation. An acute toxicity test with a reference toxicant and fish from the same population as used in the test, indicated the fish were in the normal range of chemical sensitivity to the reference toxicant (Appendix B).

Ceriodaphnia dubia (Lot No. CD-09-C12.10, CD-09-F12.6 and CD-09-G12.6) were obtained from TRAC's culture facility. *C. dubia* were <24 hours old at test initiation. An acute toxicity test with a reference toxicant and *C. dubia* from the same population as used in the test, indicated a normal range of chemical sensitivity to the reference toxicant (Appendix B).

Feeding

C. leedsii were fed an *Artemia* suspension prior to test initiation and 0.2 mL of the suspension at least 2 hours before test solution renewal at 48 hours. *C. dubia* were fed an algal (*Selenastrum capricornutum*) suspension and YCT prior to test initiation and 0.1 mL each of the algal and YCT suspensions at least 2 hours before test solution renewal at 48 hours.

Statistical Analysis

No statistical analyses were performed with survival data.

RESULTS AND DISCUSSION

After 96 hours of exposure, no acute effects were observed in the *C. leedsii* tests. Five percent mortality occurred in discharge samples 5290, 5291 and 5293. No mortality occurred in any intake sample or in either control treatment. The LC50 values, for *C. leedsii*, for both intake and discharge samples are >100%.

After 96 hours of exposure, no acute effects were observed in the *C. dubia* tests. Ten percent mortality occurred in discharge sample 5290, while 5% mortality occurred in intake sample 5296. No mortality occurred in either control treatment. The LC50 values for *C. dubia*, for both intake and discharge samples are >100%. Mortality data are summarized in Tables 3 through 6. Control mortality was acceptable for both species ($\leq 10\%$).

Deviations in Protocol

No deviations from prescribed methods occurred during this testing event.

Table 1. Characteristics of four discharge samples from the Gulf Power, Plant Scholz used in 96-hour acute screening toxicity tests with *Cyprinella leedsi* and *Ceriodaphnia dubia*.

	Sample 5290	Sample 5291	Sample 5292	Sample 5293
Sample Date	12 Aug 09	13 Aug 09	13 Aug 09	13 Aug 09
Sample Time	1915	0115	0715	1315
Arrival Date	14 Aug 09	14 Aug 09	14 Aug 09	14 Aug 09
Arrival Temperature (°C)	1.6	1.6	1.6	1.6
Chlorine (mg/L)	0.06	0.02	0.02	0.02
pH	6.9	7.2	7.1	7.1
Alkalinity (mg/L CaCO ₃)	57	59	56	54
Hardness (mg/L CaCO ₃)	60	76	64	68
Conductivity (µs)	116	113	110	111

Table 2. Characteristics of four intake samples from the Gulf Power, Plant Scholz used in 96-hour acute screening toxicity tests with *Cyprinella leedsi* and *Ceriodaphnia dubia*.

	Sample 5294	Sample 5295	Sample 5296	Sample 5297
Sample Date	12 Aug 09	13 Aug 09	13 Aug 09	13 Aug 09
Sample Time	1915	0115	0715	1315
Arrival Date	14 Aug 09	14 Aug 09	14 Aug 09	14 Aug 09
Arrival Temperature (°C)	1.6	1.6	1.6	1.6
Chlorine (mg/L)	0.04	0.04	0.04	0.03
pH	7.2	7.2	7.2	7.1
Alkalinity (mg/L CaCO ₃)	50	55	54	54
Hardness (mg/L CaCO ₃)	68	64	60	72
Conductivity (µs)	111	111	109	109

Table 3. Mortality of *Cyprinella leedsii* exposed to four discharge samples from the Gulf Power, Plant Scholz used in 96-hour acute screening toxicity tests.

<u>Test Treatment</u> ¹	<u>Cumulative Mortality (%)</u> ²	
	<u>48 hours</u>	<u>96 hours</u>
RCF Control	0	0
5290	0	5
5291	0	5
5292	0	0
5293	0	5

1. All samples were tested at 100% concentration.

2. Initial number of fish in each concentration was 20.

Table 4. Mortality of *Ceriodaphnia dubia* exposed to four discharge samples from the Gulf Power, Plant Scholz used in 96-hour acute screening toxicity tests.

<u>Test Treatment</u> ¹	<u>Cumulative Mortality (%)</u> ²	
	<u>48 hours</u>	<u>96 hours</u>
RCF Control	0	0
5290	10	10
5291	0	0
5292	0	0
5293	0	0

1. All samples were tested at 100% concentration.

2. Initial number of daphnids in each concentration was 20.

Table 5. Mortality of *Cyprinella leedsii* exposed to four intake samples from the Gulf Power, Plant Scholz used in 96-hour acute screening toxicity tests.

<u>Test Treatment</u> ¹	<u>Cumulative Mortality (%)</u> ²	
	<u>48 hours</u>	<u>96 hours</u>
RCF Control	0	0
5294	0	0
5295	0	0
5296	0	0
5297	0	0

1. All samples were tested at 100% concentration.
2. Initial number of fish in each concentration was 20.

Table 6. Mortality of *Ceriodaphnia dubia* exposed to four intake samples from the Gulf Power, Plant Scholz used in 96-hour acute screening toxicity tests.

<u>Test Treatment</u> ¹	<u>Cumulative Mortality (%)</u> ²	
	<u>48 hours</u>	<u>96 hours</u>
RCF Control	0	0
5294	0	0
5295	0	0
5296	5	5
5297	0	0

1. All samples were tested at 100% concentration.
2. Initial number of daphnids in each concentration was 20.

APPENDIX A



Environmental / Remedial
Chemistry and Toxicology

TRAC Laboratories, Inc
14 South 2nd Street
Pensacola, FL 32507

(850)456-5836
Fax (850) 456-5838
djohnson@traclaboratories.com

CHAIN OF CUSTODY RECORD

Client Name / Permit #					TRAC USE ONLY			
Date*	Time* (24 hr clock)	Sample Type Grab / Comp.	Sampler's Name	Sample ID	Sample Vol	Arrival Temperature	Remarks	TRAC Sample ID
08-12-09	19:15	Grab	Sara Brock	Intake Scholz	2.0L	1.6°C		365-5294
08-13-09	01:15	Grab	Sara Brock	Intake Scholz	2.0L	1.6°C		365-5295
08-13-09	07:15	" " "	" " "	" " "	2.0L	1.6°C		365-5296
08-13-09	18:15	" " "	" " "	" " "	2.0L	1.6°C		365-5297
08-12-09	19:15	Grab	Sara Brock	Discharge Scholz	2.0L	1.6°C		365-5298
08-13-09	01:15	" " "	" " "	" " "	2.0L	1.6°C		365-5299
08-13-09	07:15	" " "	" " "	" " "	2.0L	1.6°C		365-5300
Relinquished By (Signature) <i>Sara Brock</i>				Received By (Signature) <i>[Signature]</i>		Date: 8/14/09		Time: 8:00
Relinquished By (Signature) <i>[Signature]</i>				Received By: (Signature) <i>[Signature]</i>		Date: 8/14/09		Time: 08:15
Relinquished By (Signature)				Received By (Signature)		Date		Time
Shipper Name.				Airbill or Manifest No				

* If composite sample, indicate starting and ending date and time



TRAC Laboratories, Inc.
14 South 2nd Street
Pensacola, FL 32507

(850)456-5836
Fax (850) 456-5838
djohnson@traclaboratories.com

CHAIN OF CUSTODY RECORD

Client Name / Permit #					TRAC USE ONLY			
Date*	Time* (24 hr clock)	Sample Type Grab / Comp.	Sampler's Name	Sample ID	Sample Vol.	Arrival Temperature	Remarks	TRAC Sample ID
08-13-09	13:15	Grab	Sara Brock	Discharge Scholz	20L	1.6°C		365-093
Relinquished By: <i>Sara Brock</i>				Received By: <i>[Signature]</i>			Date: 8/19/09	Time: 08:00
Relinquished By: <i>[Signature]</i>				Received By: <i>[Signature]</i>			Date: 8/14/09	Time: 08:15
Relinquished By: <i>[Signature]</i>				Received By: <i>[Signature]</i>			Date: <i>[Blank]</i>	Time: <i>[Blank]</i>
Shipper Name				Airbill or Manifest No.				

*If composite sample, indicate starting and ending date and time

TRAC Laboratory
Sample Characterization Data

Project #:		365-5290-5297				
Date		14 Aug 09	14 Aug 09	14 Aug 09	14 Aug 09	14 Aug 09
Sample #		5290	5291	5292	5293	5294
Lab Prep #		2642 (80)	2642	2642	2642	2642
Client Sample ID		Discharge	Discharge	Discharge	Discharge	Intake
P A R A M E T E R	Arrival Temp°C	1.6	1.6	1.6	1.6	1.6
	Chlorine mg/l.	0.06	0.02	0.02	0.02	0.04
	pH	6.9	7.2	7.1	7.1	7.2
	Alkalinity mg/l.	52	59	56	54	50
	Hardness mg/l	60	76	64	68	68
	Conductivity µs	116	113	110	111	111
	Salinity ‰					
	Ammonia mg/L					
Additional Comments on Sample Preparation:						

TRAC Laboratory
Sample Characterization Data

Project #:		365-5290-5297			
Date		14 Aug 09	14 Aug 09	14 Aug 09	
Sample #		5295	5296	5297	
Lab Prep #		2642	2642	2642	
Client Sample ID		Intake	Intake	Intake	
P A R A M E T E R	Arrival Temp °C	1.6	1.6	1.6	
	Chlorine mg/L	0.04	0.04	0.03	
	pH	7.2	7.2	7.1	
	Alkalinity mg/L	55	54	52	
	Hardness mg/l	64	60	72	
	Conductivity µs	111	109	109	
	Salinity ‰	/	/	/	
	Ammonia mg/L	/	/	/	
Additional Comments on Sample Preparation:					

**ACUTE SCREEN
TOXICITY TEST SURVIVAL SHEET**

TRAC ID 365-5290-5293
 SAMPLE ID Discharge
 SPONSER Gulf Breeze School

SPECIES Cyprinella leedsi
 BROOD CL-09-F12.6, 612.6 / 8-14-09
 AGE 44 days F4
11 days

DATE 14 Aug 09 BEGIN 1145 END 18 Aug 09
 TIME 1215 1230

Sample Number	REP	Hour						
		0	24	48	72	96		
		Number Alive						
Control	A	10	10	10	10	10	# ALIVE	# DEAD
	B	10	10	10	10	10	20	0
5290	A	10	10	10	10	10		
	B	10	10	10	10	9	19	1
5291	A	10	10	10	9	9		
	B	10	10	10	10	10	19	1
5292	A	10	10	10	10	10		
	B	10	10	10	10	10	20	0
5293	A	10	10	10	10	9		
	B	10	10	10	10	10	19	1
COUNT		1	1	9H	1	1	Fed 24 hr old artemia nauplii Time & Amt Fed @ 48 hrs 0.2ml @ 10:10	
RENEWAL		----	----	9H	----	----		
TIME		----	1110	1415	1230	----		
QC		1	1	1	1	1		

fc - foot candles

Randomization Scheme #16

Light Intensity 78 f-

TRAC ID 365-5290-5293SPECIES *Cyprinella leedsi*

	Sample Number	DISSOLVED OXYGEN (mg/L)				
		0	24	48	72	96
RENEWAL	CTL	9.0		9.0		
	5290	9.2		9.2 ^{100%}		
	5291	8.5		9.2		
	5292	8.4		9.1		
	5293	9.0		9.2 ^{91%}		
FINAL	CTL		8.9	8.8	8.9	8.8
	5290		8.9	8.9	8.9	8.7
	5291		8.9	8.9	8.8	8.5
	5292		8.9	8.9	8.8	8.4
	5293		8.8	8.9	8.7	8.4
	Meter #	3	3	3	3	3
	Sample Number	TEMPERATURE (°C)				
		0	24	48	72	96
RENEWAL	CTL	20.3		20.9 20.0		
	5290	20.1		20.8 20.9		
	5291	20.0		20.5		
	5292	20.0		20.5		
	5293	20.0		20.9		
FINAL	CTL		20.9	20.9	20.6	20.0
	5290		20.8	20.6	20.6	20.0
	5291		20.7	20.8	20.6	20.0
	5292		20.8	20.9	20.6	20.0
	5293		20.8	20.9	20.6	20.0
	Meter #	1	1	1	1	1
R = Renewal solutions F = Final solutions		R	R/F	R/F	R/F	F
Operator		J	J	EH	J	J
Time		1100	1041	01320135	1220	1210
QC		1	1	1	1	1

Cyprinella leedsi

08416 Aug 09
 Sample aerated for 15 min. to
 reduce DO to $\leq 100\%$ saturation.

TRAC ID 365-5290-5293SPECIES *Cyprinella leedsi*

		Sample Number	pH			
			0	24	48	72
R E N E W A L	CTL	7.9		7.9		
	5290	7.6		7.6		
	5291	7.6		7.5		
	5292	7.6		7.4		
	5293	7.6		7.4		
F I N A L	CTL		7.9	7.6	7.8	7.8
	5290		7.7	7.5	7.7	7.7
	5291		7.7	7.6	7.7	7.7
	5292		7.7	7.6	7.7	7.7
	5293		7.7	7.6	7.7	7.7
Meter #		1	1	1		1

		Sample Number	CONDUCTIVITY (uS)			
			0	24	48	72
R E N E W A L	CTL	307		320		
	5290	116		144		
	5291	113		134		
	5292	110		126		
	5293	111		123		
Meter #		4		4		

R = Renewal solutions	R	F	R/F	F	F
F = Final solutions					
Operator	J	J	EH	J	J
Time	1120	1045	1335	1220	1210
Sample	5290-5293		5290-5293		
Prep number (Control)	2642		2642		
QC	J	J	J	J	J

DEH 16 Aug 09

Cyprinella leedsi

**ACUTE SCREEN
TOXICITY TEST SURVIVAL SHEET**

TRAC ID 365-5290-5293
 SAMPLE ID Discharge
 SPONSER Griff Power Scholz

SPECIES Ceriodaphnia dubia
 BROOD CS-09-F12.6, G12.6
 AGE 44 hrs

BEGIN
 DATE 14 Aug 09 END 18 Aug 09
 TIME 1145 1220

Sample Number	REP	Hour						
		0	24	48	72	96		
		Number Alive						
Control	A	5	5	5	5	5	# ALIVE	# DEAD
	B	5	5	5	5	5		
	C	5	5	5	5	5		
	D	5	5	5	5	5		
5290	A	5	5	4	4	4		
	B	5	5	5	5	5		
	C	5	5	4	4	4		
	D	5	5	5	5	5		
5291	A	5	5	5	5	5		
	B	5	5	5	5	5		
	C	5	5	5	5	5		
	D	5	5	5	5	5		
5292	A	5	5	5	5	5		
	B	5	5	5	5	5		
	C	5	5	5	5	5		
	D	5	5	5	5	5		
5293	A	5	5	5	5	5		
	B	5	5	5	5	5		
	C	5	5	5	5	5		
	D	5	5	5	5	5		
COUNT		7	7	EH	7	7	Time & Amt Fed @ 48 hrs ②1040 YCT 0.1ml Selenastrum 0.1ml	
RENEWAL		-----	-----	EH	-----	-----		
TIME		-----	1100	1345	1235	-----		
QC		7	7	7	7	7		

lc - foot candles

Randomization Scheme #17

Light Intensity 78 lc

	Sample Number	DISSOLVED OXYGEN (mg/L)				
		0	24	48	72	96
R E N E W A L	CTL	9.0		9.0		
	5290	9.2		9.2 ^{100%}		
	5291	8.5		9.2		
	5292	8.4		9.1 ^{91%}		
	5293	9.0		9.2 ^{100%}		
F I N A L	CTL		9.0	9.2	9.1	8.5
	5290		9.0	9.2	9.2	8.5
	5291		9.0	9.2	9.2	8.5
	5292		9.0	9.2	9.2	8.5
	5293		9.0	9.2	9.2	8.5
	Meter #	3	3	3	3	3
	Sample Number	TEMPERATURE (°C)				
		0	24	48	72	96
R E N E W A L	CTL	20.3		20.0		
	5290	20.1		20.9		
	5291	20.0		20.5		
	5292	20.0		20.5		
	5293	20.0		20.9		
F I N A L	CTL		20.3	20.8	20.5	19.9
	5290		20.7	20.6	20.5	19.9
	5291		20.7	20.4	20.4	19.9
	5292		20.7	20.4	20.2	19.9
	5293		20.7	19.7	20.3	19.8
	Meter #	1	1	1	1	1
R = Renewal solutions F = Final solutions		R	F	R/F	F	F
Operator		1	1	EH	1	1
Time		1100	1045	1320	1220	1210
QC		1	1	1	1	1

Ceriodaphnia dubia

① 16 Aug 09 EH
 ② Sample aerated for 15 min. to reduce DO to $\leq 100\%$ saturation

		Sample Number	pH				
			0	24	48	72	96
R E N E W A L	CTL	7.9		7.9			
	5290	7.6		7.6			
	5291	7.6		7.5			
	5292	7.6		7.4			
	5293	7.6		7.4			
F I N A L	CTL		8.0	7.7	7.9	7.8	
	5290		7.7	7.6	7.8	7.7	
	5291		7.7	7.7	7.8	7.7	
	5292		7.7	7.7	7.8	7.7	
	5293		7.7	7.7	7.8	7.6	
Meter #		1	1	1	1	1	
		Sample Number	CONDUCTIVITY (uS)				
			0	24	48	72	96
R E N E W A L	CTL	307		320			
	5290	116		144			
	5291	113		134			
	5292	110		126			
	5293	111		123			
Meter #		4		4			
R = Renewal solutions		R	F	R/F	F	F	
F = Final solutions							
Operator		1	1	114	1	1	
Time		1147	1045	1335	1220	1210	
Sample		5290-5293		5290-5293			
Prep number (Control)		1642		1642			
QC		1	1	1	1	1	

Ceriodaphnia dubia

**ACUTE SCREEN
TOXICITY TEST SURVIVAL SHEET**

TRAC ID 365-5294-5297

SPECIES Cyprinella leedsi

SAMPLE ID Intake

BROOD CL-09-F4

SPONSER Gulf Power Scholz

AGE 11 days

DATE 8-14-09 BEGIN 1443 END 18 Aug 09
TIME 1230 1235

Sample Number	REP	Hour						
		0	24	48	72	96		
		Number Alive						
Control	A	10	10	10	10	10	# ALIVE	# DEAD
	B	10	10	6	10	10	20	0
5294	A	10	10	6	6	10		
	B	10	10	6	10	10	20	0
5295	A	10	10	10	10	10		
	B	10	10	10	10	10	20	0
5296	A	10	10	10	10	10		
	B	10	6	10	10	10	20	0
5297	A	6	10	10	10	10		
	B	6	10	10	10	10	20	0
COUNT		1	1	914	1	1	Fed 24 hr old artemia nauplii Time & Amt Fed @ 48 hrs 0.2ml @ 1040	
RENEWAL		----	----	914	----	----		
TIME		----	1120	1430	1245	----		
QC		1	1	1	1	1		

fc - foot candles

Randomization Scheme #15

Light Intensity 78 fc

TRAC ID 365-5294-5297SPECIES *Cyprinella leedsii*

	Sample Number	DISSOLVED OXYGEN (mg/L)				
		0	24	48	72	96
R E N E W A L	CTL	9.0		9.0		
	5294	9.2		8.2 9.2		
	5295	8.4		9.2		
	5296	7.5		8.8		
	5297	7.8		8.8		
F I N A L	CTL		8.8	8.8	8.8	8.5
	5294		8.8	8.8 8.8	8.8	8.5
	5295		8.7	8.9	8.8	8.5
	5296		8.7	8.9	8.9	8.5
	5297		8.7	8.8	8.9	8.4
	Meter #	3	3	3	3	3
	Sample Number	TEMPERATURE (°C)				
		0	24	48	72	96
R E N E W A L	CTL	10.3		20.0		
	5294	10.3		20.5		
	5295	10.2		20.7		
	5296	10.2		20.9		
	5297	10.5		20.9		
F I N A L	CTL		10.7	20.6	20.5	20.0
	5294		10.7	20.7	20.5	20.1
	5295		10.8	20.8	20.6	20.1
	5296		10.8	20.4	20.6	20.1
	5297		10.7	20.3	20.5	20.1
	Meter #	1	1	1	1	1
R = Renewal solutions		R	R/F	R/F	R/F	F
F = Final solutions						
Operator		1	1	1	1	1
Time		1100	1045	1300 ³⁵⁵	1240	1210
QC						

Cyprinella leedsii

- (1) 10 Aug 09
 (2) Sample aerated for 15 min. to reduce DO to <100% Saturation.
 (3) 8.8 10 Aug 09 14 (correct value)

TRAC ID 365-5294-5297SPECIES *Cyprinella leedsi*

	Sample Number	pH				
		0	24	48	72	96
R E N E W A L	CTL	7.9		7.9		
	5294	7.675	18.1407	7.4		
	5295	7.5		7.4		
	5296	7.5		7.4		
	5297	7.5		7.3		
F I N A L	CTL		7.9	7.6	7.8	7.8
	5294		7.7	7.5	7.7	7.6
	5295		7.7	7.5	7.7	7.7
	5296		7.7	7.5	7.6	7.7
	5297		7.7	7.5	7.6	7.7
	Meter #	1	1	1	1	1
	Sample Number	CONDUCTIVITY (uS)				
		0	24	48	72	96
R E N E W A L	CTL	307		320		
	5294	111		128		
	5295	111		118		
	5296	109		122		
	5297	109		121		
	Meter #	4		4		
R = Renewal solutions		R	F	R/F	F	F
F = Final solutions						
Operator		J	J	EH	J	J
Time		1100	1045	1335	1220	1210
Sample		5294-5297		5294-5297		
Prep number (Control)		2642		2642		
QC		/	/	/	/	/

Cyprinella leedsi

**ACUTE SCREEN
TOXICITY TEST SURVIVAL SHEET**

TRAC ID 365-5294-5297
 SAMPLE ID Intake
 SPONSER Gulf Power Scholz

SPECIES Ceriodaphnia dubia
 BROOD CO-09-C12.10, f12.6
 AGE 24 hrs

DATE 18 Aug 09 BEGIN 14 1200 END 18 Aug 09 1225
 TIME

Sample Number	REP	Hour						
		0	24	48	72	96		
		Number Alive						
Control	A	5	5	5	5	5	# ALIVE	# DEAD
	B	5	5	5	5	5		
	C	5	5	5	5	5		
	D	5	5	5	5	5		
5294	A	5	5	5	5	5	20	0
	B	5	5	5	5	5		
	C	5	5	5	5	5		
	D	5	5	5	5	5		
5295	A	5	5	5	5	5	20	0
	B	5	5	5	5	5		
	C	5	5	5	5	5		
	D	5	5	5	5	5		
5296	A	5	5	5	5	5	19	1
	B	5	5	5	5	5		
	C	5	5	5	5	5		
	D	5	5	4	4	4		
5297	A	5	5	5	5	5	20	0
	B	5	5	5	5	5		
	C	5	5	5	5	5		
	D	5	5	5	5	5		
COUNT		1	1	24	1	1	Time & Amt Fed @ 48 hrs	
RENEWAL		----	----	5H	----	----	②1040	
TIME		----	1105	1400	1246	----	YCT: 0.1ml	
QC		1	1	1	1	1	Selenastrum: 0.1ml	

fc - foot candles

Randomization Scheme #18

Light Intensity 78 fc

TRAC ID 765-5294-5297SPECIES Ceriodaphnia dubia

	Sample Number	DISSOLVED OXYGEN (mg/L)				
		0	24	48	72	96
R E N E W A L	CTL	9.0		9.0		
	5294	9.2		9.2 ^{9.1}		
	5295	8.4		9.2		
	5296	7.5		8.8		
	5297	7.8		8.8		
F I N A L	CTL		8.9	9.1	9.1	8.4
	5294		8.7	9.1	9.1	8.5
	5295		8.8	9.1	9.2	8.5
	5296		8.8	9.2	9.1	8.5
	5297		8.8	9.2	9.2	8.4
	Meter #	3	3	3	3	3
	Sample Number	TEMPERATURE (°C)				
		0	24	48	72	96
R E N E W A L	CTL	20.3		20.0		
	5294	20.3		20.5		
	5295	20.2		20.7		
	5296	20.2		20.9		
	5297	20.5		20.9		
F I N A L	CTL		20.8	21.0	20.6	20.0
	5294		20.8	20.8	20.5	20.0
	5295		20.8	20.8	20.5	20.0
	5296		20.8	20.5	20.4	20.0
	5297		20.7	20.2	20.4	20.0
	Meter #	1	1	1	1	1
R = Renewal solutions F = Final solutions		R	F	R/F	F	F
Operator		J	J	EH	J	J
Time		1100	1045	1320 ^{SS}	1220	1210
QC						

Ceriodaphnia dubia

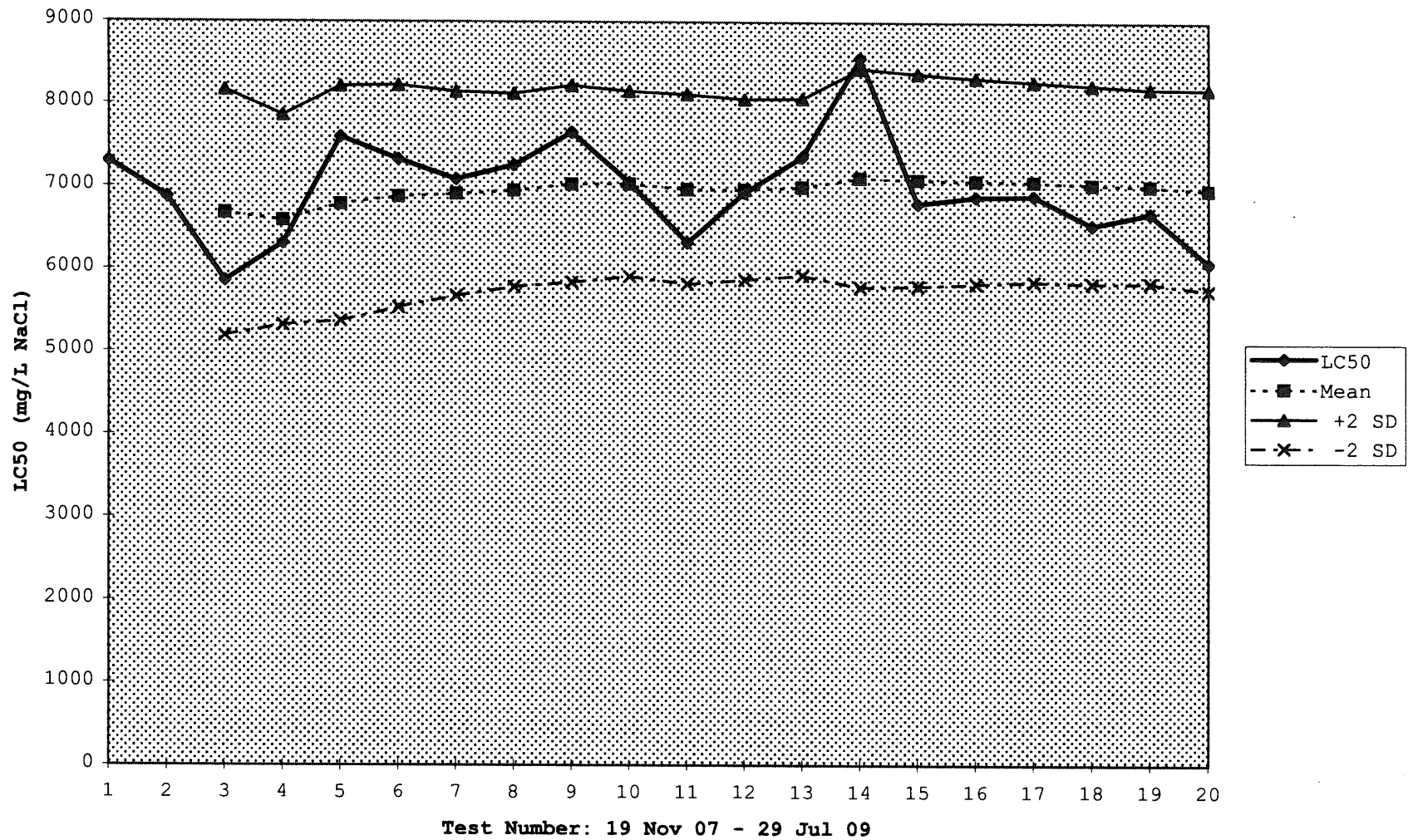
① 16 Aug 09 EH

② Sample aerated for 15 min. to reduce DO to < 100% saturation.

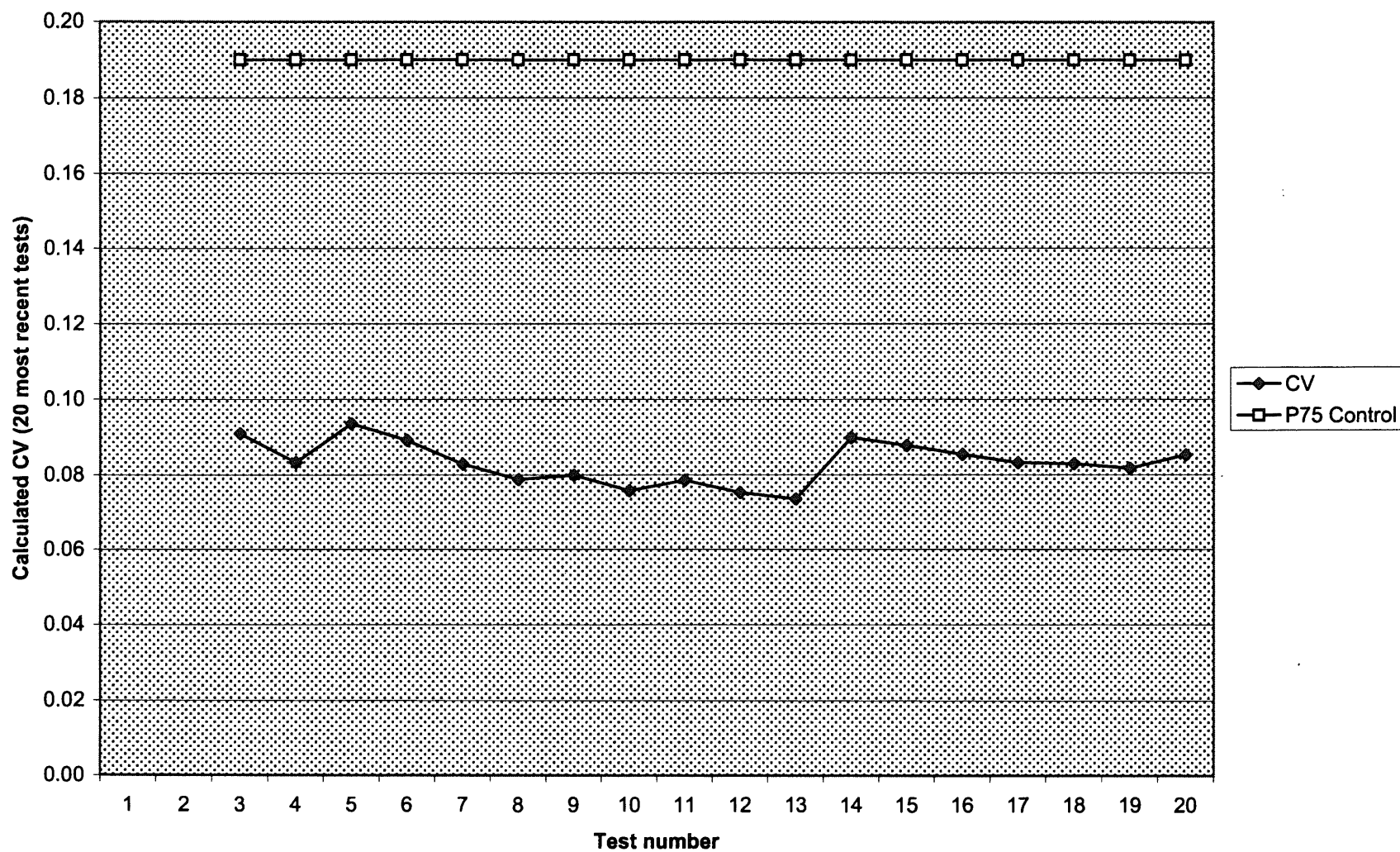
	Sample Number	pH				
		0	24	48	72	96
R E N E W A L	CTL	7.9		7.9		
	5294	7.5		7.4		
	5295	7.5		7.4		
	5296	7.5		7.4		
	5297	7.5		7.3		
F I N A L	CTL		8.0	7.8	7.9	7.8
	5294		7.7	7.7	7.8	7.7
	5295		7.7	7.7	7.8	7.7
	5296		7.7	7.7	7.8	7.7
	5297		7.7	7.7	7.8	7.7
	Meter #	1	1	1	1	1
	Sample Number	CONDUCTIVITY (uS)				
		0	24	48	72	96
R E N E W A L	CTL	307		320		
	5294	111		128		
	5295	111		118		
	5296	109		122		
	5297	109		121		
	Meter #	4		4		
R = Renewal solutions		R	F	R/F	F	F
F = Final solutions						
Operator		1	1	914	1	1
Time		1100	1045	1335	1220	1210
Sample		5294-5297		5294-5297		
Prep number (Control)		2642		2642		
QC		1	1	1	1	1

Ceriodaphnia dubia

Cyprinella leedsii Acute Control Chart



***Cyprinella leedsii* Acute LC50 CV vs. 75th Percentile**



DATE (Test#)	LC50	Mean	Upper	Lower	CV	P75 Control	
19-21 Nov 07 (46)	7301						
17-19 Dec 07 (47)	6876						
28-30 Jan 08 (48)	5855	6677	8164	5191	0.09	0.19	
25-27 Feb 08 (49)	6313	6586	7853	5319	0.08	0.19	
28-30 Mar 08 (50)	7594	6788	8208	5368	0.09	0.19	
23-25 Apr 08 (51)	7323	6877	8220	5534	0.09	0.19	
21-23 May 08 (52)	7085	6907	8143	5670	0.08	0.19	
23-25 Jun 08 (53)	7255	6950	8121	5780	0.08	0.19	
21-23 Jul 08 (54)	7654	7028	8220	5837	0.08	0.19	
19-21 Aug 08 (55)	7050	7031	8154	5907	0.08	0.19	
18-20 Sep 08 (56)	6324	6966	8114	5819	0.08	0.19	
29-31 Oct 08 (57)	6926	6963	8058	5868	0.08	0.19	
05-07 Dec 08 (58)	7360	6994	8064	5923	0.07	0.19	
14-16 Jan 09 (59)	8558	7105	8431	5779	0.09	0.19	
11-13 Feb 09 (60)	6796	7085	8372	5797	0.09	0.19	
18-20 Mar 09 (61)	6880	7072	8320	5824	0.09	0.19	
16-18 Apr 09 (62)	6892	7061	8273	5850	0.08	0.19	
27-29 May 09 (63)	6541	7032	8233	5832	0.08	0.19	
22-24 Jun 09 (64)	6683	7014	8192	5836	0.08	0.19	
27-29 Jul 09 (65)	6082	6967	8187	5748	0.09	0.19	
					P75 = 0.19		
					P90 = 0.33		

***** Version 2.5 *****

Results calculated using the Probit Method.

Sponsor : TRAC
 Species : CYPRINELLA LEEDSI
 Study Number : CL-09-X3
 Dates of test : 27 JUL 09 to 29 JUL 09
 Test Material : NACL
 Concentration Units : MG/L
 Report run by : DJ
 Date of report : 07-31-2009

N

Concentration (MG/L)	Number Exposed	Number Dead	Percent Dead
10000.0	20	20	100.0
8000.0	20	20	100.0
7000.0	20	14	70.0
5000.0	20	3	15.0
2500.0	20	0	0.0
Control	20	0	0.0

Iterations	G	H	Chi-Square	Probability
5	0.130	1.00	2.440	0.49
95% confidence limits				
Slope =	13.62	8.71	18.52	
LC50 =	6082.68	5573.46	6523.47	
LC1 =	4104.25	3135.75	4693.49	

***** End Of Report *****

48-HOUR REFERENCE TOXICANT TEST

SPECIES: *Cyprinella leedsi*

REFERENCE TOXICANT: NaCl

BROOD: CL-09-X3

REF-TOX MONTH: July 2009AGE: 12 days

CONCENTRATION mg/L	0 HRS DATE: 27 Jul 09 TIME: 1355						24 HRS DATE: 28 Jul 09 TIME: 1400						48 HRS DATE: 29 Jul 09 TIME: 1350					
	REP	# ALIVE	TEMP (°C)	pH	DO (mg/L)	Cond (uS)	REP	# ALIVE	TEMP (°C)	pH	DO (mg/L)		REP	# ALIVE	TEMP (°C)	pH	DO (mg/L)	
CONTROL	A	10	20.9	7.9	8.6	305	A	10	21.0	7.9	8.6		A	10	20.9	7.9	8.6	
	B	10					B	10					B	10				
2,500.00	A	10	20.7	7.9	8.6	4150	A	10	21.0	7.8	8.6		A	10	20.9	7.9	8.6	
	B	10					B	10					B	10				
5,000.00	A	10	21.0	7.9	8.6	8040	A	10	21.0	7.8	8.6		A	9	20.9	7.8	8.6	
	B	10					B	10					B	9				
7,000.00	A	10	21.0	7.9	8.6	12210	A	10	21.0	7.8	8.6		A	2	20.9	7.8	8.6	
	B	10					B	9					B	4				
8,000.00	A	10	20.9	7.9	8.7	13700	A	4	21.0	7.8	8.6		A	0	21.0	7.8	8.6	
	B	10					B	6					B	0				
10,000.00	A	10	20.9	7.8	8.7	16640	A	0	21.0	7.8	8.7		A					
	B	10					B	0					B					
Meter #			1	1	3	4			1	1	3							
Initials		HT						NW										
Time		1330						1400										

Toxicant Solution Preparation			
Target Wt. (g)	200	Stock Prep #	2623
Actual Wt. (g)	200	Stock Conc. (mg/l)	100.000
Diluent	NaCl DI H ₂ O	RCF Prep. #	2629
Dilution Vol. (mls)	2000	Analyst	SH

Synthetic Effluent Preparation	
Toxicant vol (mL)	
Initial serial dilution vol (mL)	
Treatment vol (mL)	

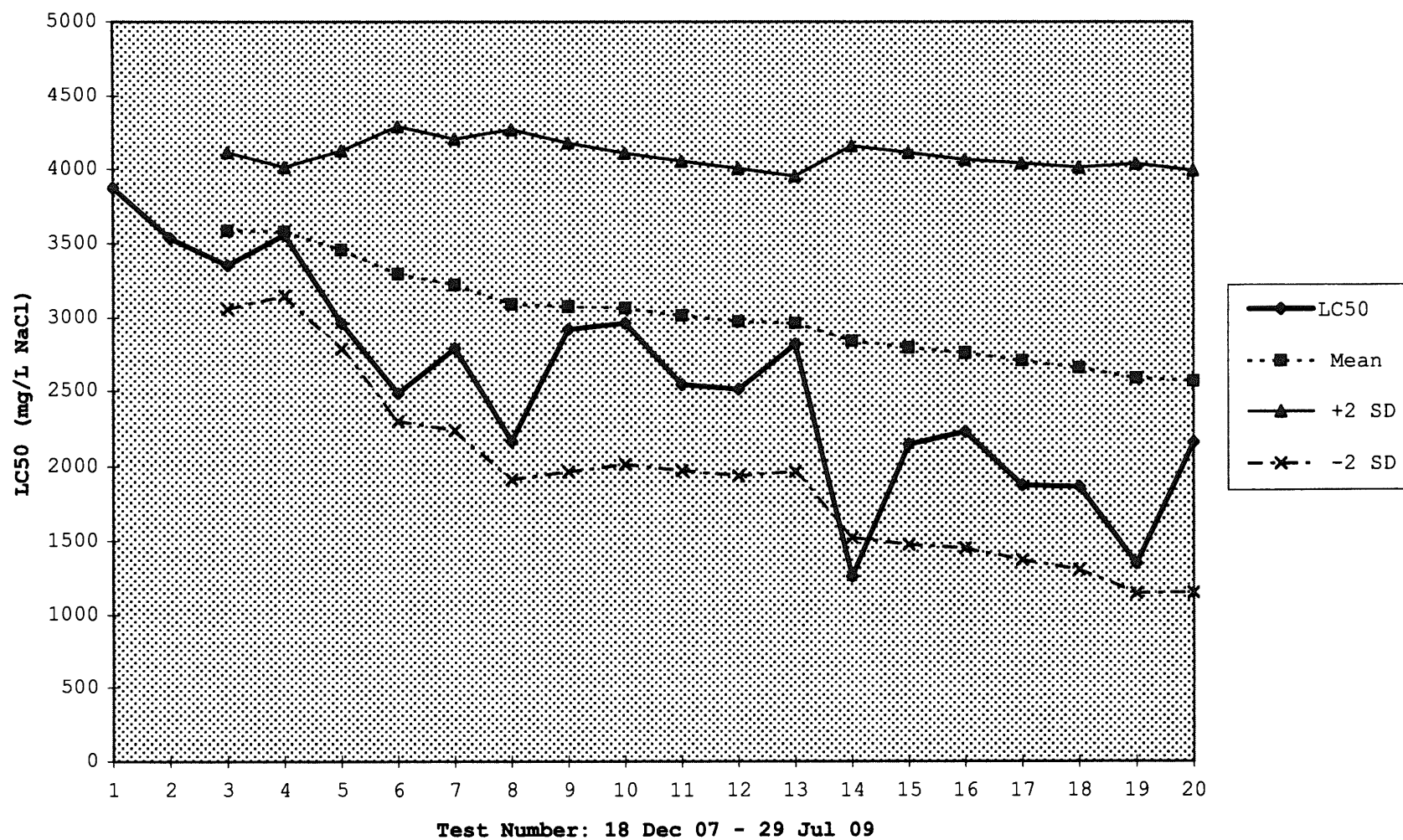
Randomization Scheme # S

① 89 114
Light intensity
1c - foot candles

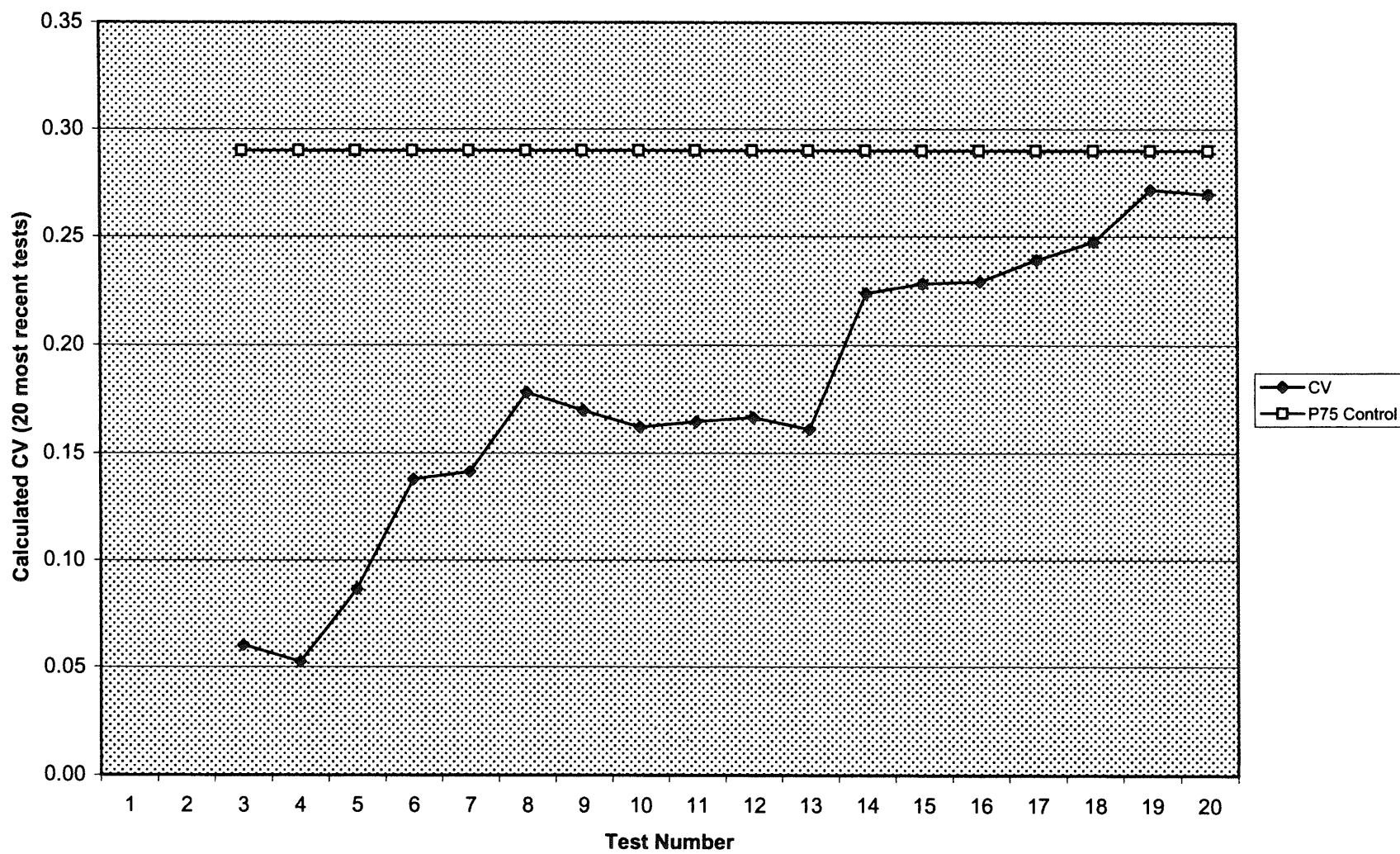
Page 2 of 2

USH 27 Jul 09
NW 28 Jul 09

Ceriodaphnia dubia Acute Control Chart



***Ceriodaphnia dubia* Acute LC50 CV vs. 75th Percentile**



CD Acute data

Ceriodaphnia dubia 48 Hour Quality Assurance Reference Toxicity Test with NaCl							
Date (Test #)	LC50	Mean	Upper	Lower	CV	P75 Control	
18-20 Dec 07 (39)	3875						
27-29 Dec 07 (40)	3535						
22-24 Jan 08 (41)	3354	3588	4117	3059	0.06	0.29	
21-23 Feb 08 (42)	3560	3581	4014	3148	0.05	0.29	
21-23 Mar 08 (43)	2962	3457	4126	2789	0.09	0.29	
23-25 Apr 08 (44)	2485	3295	4289	2301	0.14	0.29	
28-30 May 08 (45)	2792	3223	4207	2240	0.14	0.29	
24-26 Jun 08 (46)	2168	3091	4269	1914	0.18	0.29	
22-24 Jul 08 (47)	2921	3072	4180	1965	0.17	0.29	
21-23 Aug 08 (48)	2962	3061	4108	2015	0.16	0.29	
17-19 Sep 08 (49)	2543	3014	4055	1974	0.16	0.29	
29-31 Oct 08 (50)	2512	2972	4006	1939	0.17	0.29	
04-06 Dec 08 (51)	2817	2960	3954	1967	0.16	0.29	
05-07 Jan 09 (52)	1260	2839	4157	1521	0.22	0.29	
11-13 Feb 09 (53)	2148	2793	4112	1474	0.23	0.29	
17-19 Mar 09 (54)	2229	2758	4063	1452	0.23	0.29	
20-22 Apr 09 (55)	1877	2706	4040	1372	0.24	0.29	
27-29 May 09 (56)	1866	2659	4013	1306	0.25	0.29	
22-24 Jun 09 (57)	1345	2590	4037	1143	0.27	0.29	
27-29 Jul 09 (58)	2160	2569	3990	1147	0.27	0.29	
					P75 = 0.29		
					P90 = 0.34		

***** Version 2.5 *****

Results calculated using the Probit Method.

Sponsor : TRAC
 Species : CERIODAPHNIA DUBIA
 Study Number : CD-09-I11
 Dates of test : 27 JUL 09 to 29 JUL 09
 Test Material : NACL
 Concentration Units : MG/L
 Report run by : DJ
 Date of report : 07-31-2009

N

Concentration (MG/L)	Number Exposed	Number Dead	Percent Dead
4000.0	20	20	100.0
2000.0	20	6	30.0
1000.0	20	1	5.0
500.0	20	0	0.0
250.0	20	0	0.0
Control	20	0	0.0

Iterations	G	H	Chi-Square	Probability
6	0.178	1.00	3.652	0.30
95% confidence limits				
Slope =	6.52		3.77	9.27
LC50 =	2160.86		1808.72	2583.68
LC1 =	950.14		504.47	1256.26

***** End Of Report *****

48-HOUR REFERENCE TOXICANT TEST

REFERENCE TOXICANT: NaCl

REF-TOX MONTH: July 2009SPECIES: Ceriodaphnia dubiaBROOD: CD-09-III. 8(b-g)AGE: 624hrs

CONCENTRATION mg/L	0 HRS						24 HRS						48 HRS						
	DATE: TIME:	REP	# ALIVE	TEMP (°C)	pH	DO (mg/L)	Cond (µS)	DATE: TIME:	REP	# ALIVE	TEMP (°C)	pH	DO (mg/L)	DATE: TIME:	REP	# ALIVE	TEMP (°C)	pH	DO (mg/L)
CONTROL		A	5	20.9	8.0	8.7	324		A	5	20.4	7.9	9.0		A	5	20.5	7.9	9.0
		B	5						B	5									
		C	5						C	5									
		D	5						D	5									
250.00		A	5	20.9	7.9	8.7	840		A	5	20.3	7.9	9.0		A	5	20.8	7.9	8.9
		B	5						B	5									
		C	5						C	5									
		D	5						D	5									
500.00		A	5	20.9	7.9	8.7	1388		A	5	20.2	7.9	9.0		A	5	20.6	7.9	8.9
		B	5						B	5									
		C	5						C	5									
		D	5						D	5									
1,000.00		A	5	20.9	7.9	8.7	2090		A	5	20.2	8.0	9.0		A	5	20.5	7.9	8.8
		B	5						B	5									
		C	5						C	5									
		D	5						D	5									
2,000.00		A	5	20.9	7.9	8.7	3690		A	4	20.3	8.0	8.9		A	2	20.5	7.9	8.8
		B	5						B	5									
		C	5						C	5									
		D	5						D	5									
4,000.00		A	5	20.9	7.8	8.7	7380		A	0	20.4	7.9	8.9		A				
		B	5						B	0									
		C	5						C	0									
		D	5						D	0									
Meter #				1	1	3	4				1	1	3				1	1	3
Initials			EH							NH									
Time			1135							1345									

Toxicant Solution Preparation			
Target Wt (g)	200	Stock Prep #	2625
Actual Wt (g)	200	Stock Conc. (mg/l)	100,000
Diluent	Water	RCF Prep. #	2630
Dilution Vol. (mls)	2000	Analyst	EH

Synthetic Effluent Preparation	
Toxicant vol (mL)	8
Initial serial dilution vol. (mL)	200
Treatment vol (mL)	100

Randomization Scheme #2

① 94123
Light intensity: 94123 Page 2 of 2
to - foot candles
② 94123 Jul 09
12:00 28 Jul 09

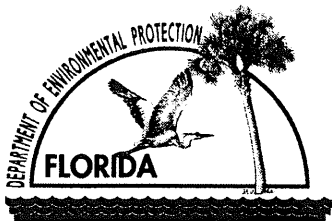
APPENDIX B



WASTEWATER APPLICATION FORM 2CG

PERMIT TO DISCHARGE PROCESS WASTEWATER
FROM NEW OR EXISTING
INDUSTRIAL WASTEWATER FACILITIES
TO GROUND WATER

FORM 2CG



WASTEWATER APPLICATION FOR PERMIT TO DISCHARGE PROCESS WASTEWATER FROM NEW OR EXISTING INDUSTRIAL WASTEWATER FACILITIES TO GROUND WATER

Facility I.D. Number: FL0002283

Please print or type information in the appropriate areas.

I DISCHARGE LOCATION For each location, list the X,Y coordinates and, where applicable, the name of the land application site.

(latitude/longitude to the nearest 15 seconds)

A. Discharge Location No. (list)	B. Latitude			C. Longitude			D. Name of Land Application
	Deg.	Min.	Sec.	Deg.	Min.	Sec.	
I-012	30	39	56	84	53	21	Ash Pond
Note:	Oufall	I-012	is a	surface	water	discharge	

II LAND APPLICATION DESIGN

A. Discharge No.	B. Design Configuration and Construction Materials	C. Cover Crop	D. Application Rate	E. Land Application Area	F. Ground Water
NA	Groundwater zone of discharge	NA	NA	NA	NA

III FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and discharge points. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each discharge location, provide a description of:

1. All operations contributing wastewater to the effluent; including process wastewater, sanitary wastewater, cooling water, and storm water runoff;
2. The average flow contributed by each operation; and
3. The treatment received by the wastewater.

Use the space below. Continue on additional sheets, if necessary.

(1) Discharge Location No.	(2) Operation(s) Contributing Flow		(3) Treatment		
	(a) Operation (list)	(b) Avg. Flow & Units	(a) Description	(b) List Code from Table 2CG-1	
I-012	Ash sluice water	~0.54 MGD	Sedimentation	1-U	
	Building sumps	~0.36 MGD	Sedimentation	1-U	
	Yard sumps/coal pile runoff	~0.38 MGD	Sedimentation	1-U	
	Treated domestic wastewater	~0.0004 MGD	Aerobic Digestion/Disinfect/Dechlo	5-A, 2-F	2-E
I-013	Treated domestic wastewater	~0.0004 MGD	Aerobic Digestion	5-A	
			Disinfection	2-F	
			Dechlorination	2-E	

FIGURE 1. PLANT SCHOLZ SCHEMATIC CLEAR WATER FLOW DIAGRAM

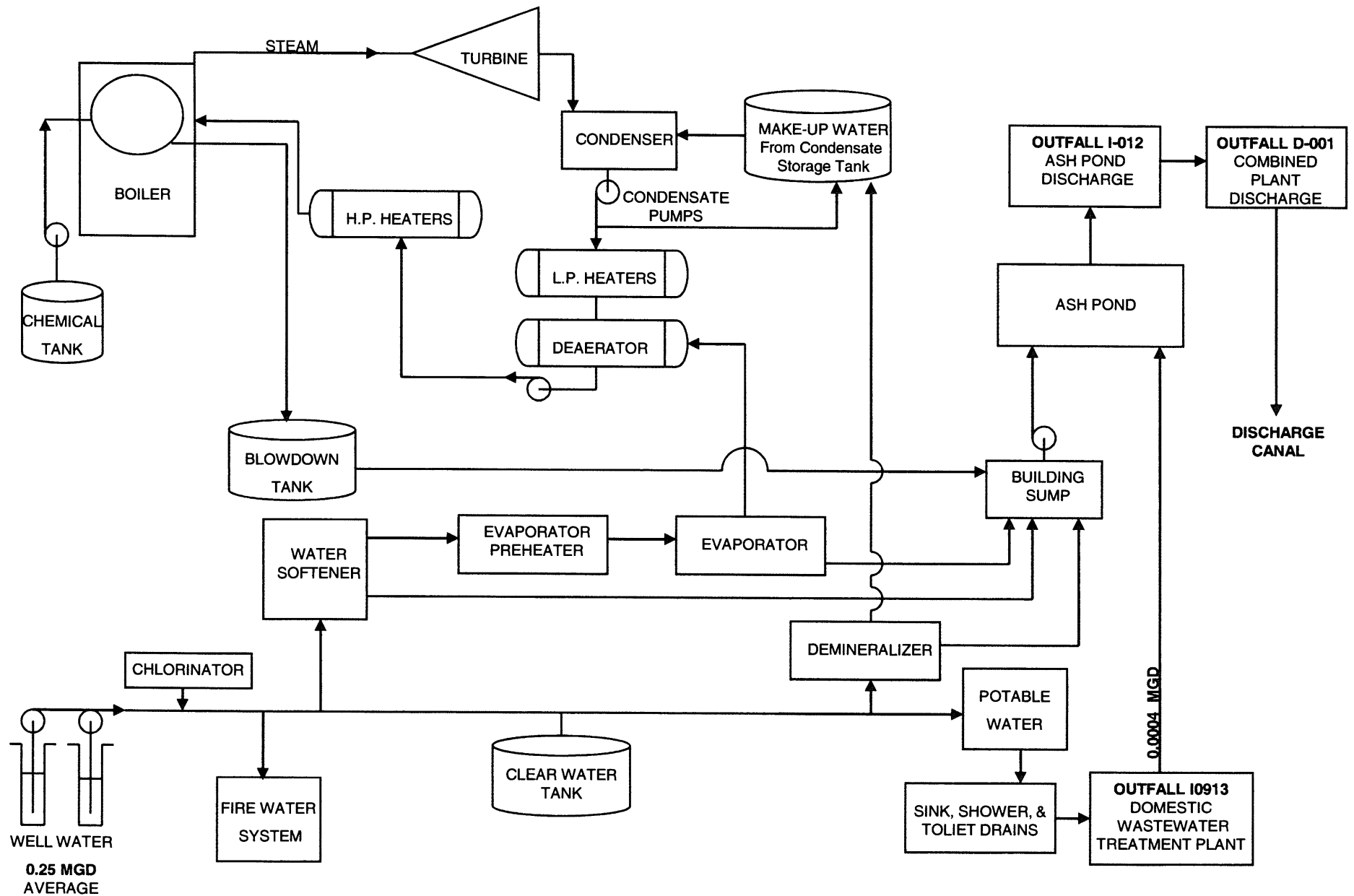
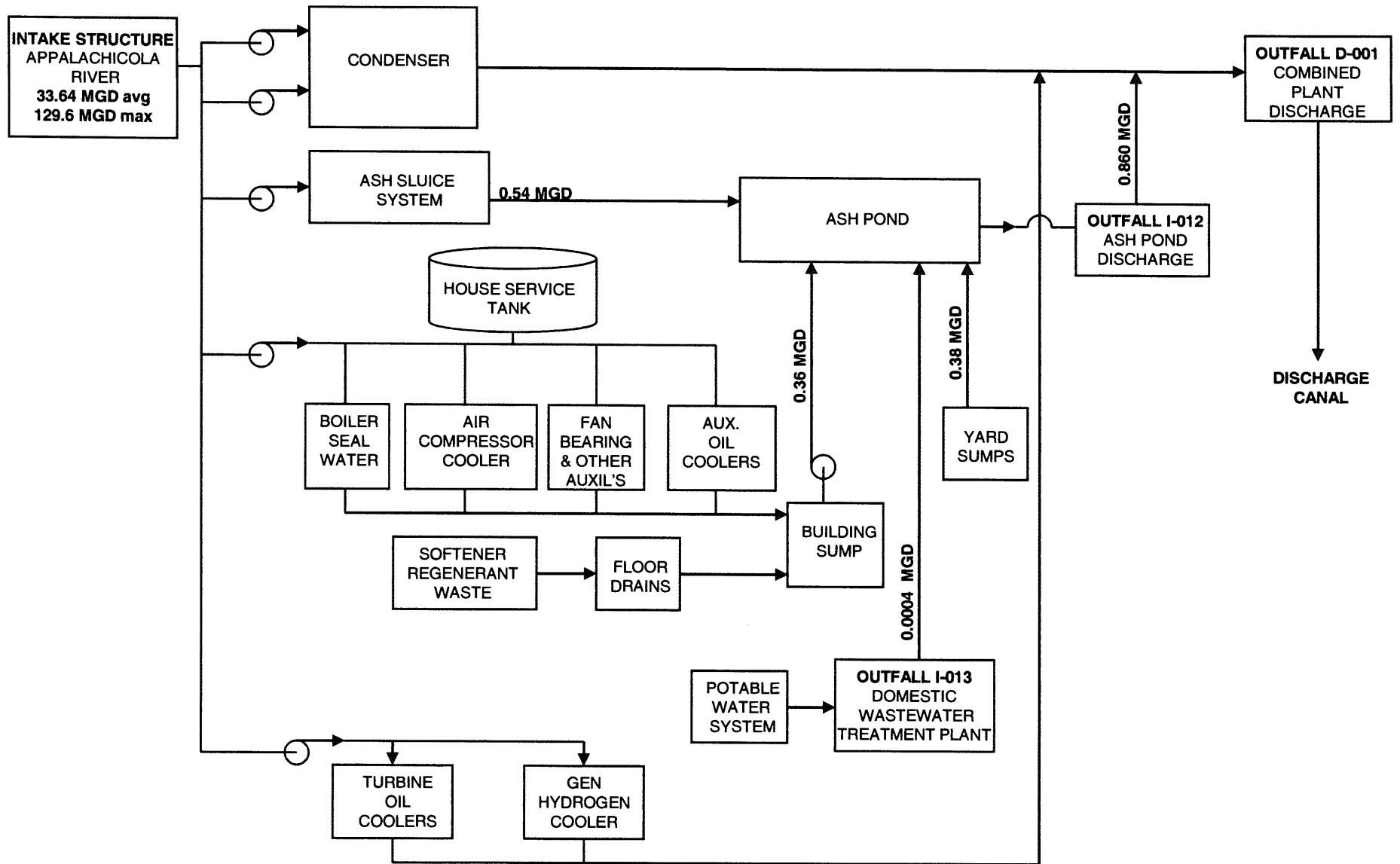


FIGURE 2. PLANT SCHOLZ RIVER WATER FLOW DIAGRAM



II Contd.

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (complete the following table)

☒ No (go to D. below)

(1) Outfall # (List)	(2) Operations(s) Contributing Flow (List)	(3) Frequency		(4) Flow				
		(a) Days per Week (specify avg.)	(b) Months per Yr. (specify avg.)	(a) Flow Rate (in mgd)		(b) Total Volume (specify with units)		(c) Duration (in days)
				Long Term Avg	Max. Daily	Long Term Avg.	Max. Daily	

*For land application systems, also include the Rest Period.

D. Describe practices to be followed to ensure adequate wastewater treatment during emergencies such as power loss and equipment failures causing shutdown of pollution abatement equipment of the proposed/permitted facilities.

E. List the method(s) and location(s) of flow measurement.

V IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ Yes (complete the following table)

☒ No (go to Item VI-B)

1. Identification of Condition, Agreement, Etc.	2. Affected Discharge Locations		3. Brief Description of Project	4. Final Compliance Date	
	a. No.	b. Source of Discharge		a. Required	b. Projected

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ Mark "X" if description of additional control programs is attached.

SECTION III-D (page 2CG-16): Describe practices to be followed to ensure adequate wastewater treatment during emergencies such as power loss and equipment failures causing shutdown of pollution abatement equipment of the proposed/permitted facilities.

Back up pumps are available for facility sumps. Question is not applicable for wastewater flows entering ash pond where the method of treatment is sedimentation.

SECTION III-E (page 2CG-16). List the method(s) and location(s) of flow measurement.

Question is not applicable for wastewater flows entering ash pond or discharge to groundwater.

INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding--Complete one set of tables for each discharge location -- Annotate the location number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets number V-1 through V-10.

D. Use the space below to list any of the pollutants listed in Table 2CG-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. Pollutant	2. Source	1. Pollutant	2. Source
NA			

VI POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or by-product?

☐ YES (list all such pollutants below) ☒ NO (go to VII)

VII CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ YES (list the name, address, telephone number, and certification number of, and pollutants analyzed by each such laboratory or firm below)
☐ NO (go to Section VIII)

A. Name	B. Address	C. Telephone (area code & no.)	D. Pollutants Analyzed (list)
Test America, Inc.	900 Lakeside Dr.	(251) 666-6633	All parameters except for pH and
	Mobile, AL 36693		TRC were analyzed by Test America
Florida DHRS Certification			Laboratories
Number E87089			

III CONNECTION TO REGIONAL POTW

A. Indicate the relationship between this project and area regional planning for wastewater treatment. List steps to be taken for this industrial wastewater facility to become part of an area-wide wastewater treatment system.

Wastewater discharged from Plant Scholz consists maily of once-thru, non-contact cooling water. The plant is located in a remote, rural location with no POTWs located in proximity to the plant. As a result, it would not be practical or feasible to connect Plant Scholz to a POTW.

IX-A CERTIFICATIONS FOR NEW OR MODIFIED FACILITIES

This is to certify the engineering features of this pollution control project have been designed by me and found to be in conformity with sound engineering principles, applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules of the Department. It is also agreed that the undersigned, if authorized by the owner, will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

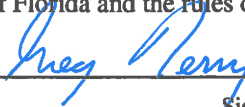
Signature	Company Name
Name (please type)	Address
(Affix Seal)	
	Florida Registration No.: _____
	Telephone No.: _____ Date _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (type or print)	Signature
Title	
Telephone No. (area code & No.)	Date Signed

X-B CERTIFICATIONS FOR PERMIT RENEWALS

This is to certify the engineering features of this pollution control project have been examined by me and found to be in conformity with sound engineering principles, applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules of the Department.

<u></u> Signature	<u>Gulf Power Company</u> Company Name
<u>Greg Terry</u> Name (please type)	<u>Address</u>
 (Affix Seal)	<u>One Energy Place</u>
	<u>Pensacola, FL 32520</u>
	Florida Registration No.: <u>52786</u>
	Telephone No.: <u>850-444-6144</u> Date <u>12-8-2009</u>

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

<u>JAMES O VICK</u> Name (type or print)	<u></u> Signature
<u>DIRECTOR</u> Title	<u>12/8/09</u> Date Signed
<u>850-444-6311</u> Telephone No. (area code & No.)	

Facility ID. Number: FL0002283 Outfall No. Ash Pond

PLEASE PRINT OR TYPE ONLY: You may report some or all of this information on separate sheets instead of completing these pages. Use the same format.
SEE INSTRUCTIONS.

V. INTAKE AND EFFLUENT CHARACTERISTICS

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. Pollutant	2. Effluent						3. Units		4. Intake (optional)			
	a. Max. Daily Value		b. Max. 30-day Value		c. Annual Avg. Value		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
a. BOD, Carbonaceous , 5-day, 20 Deg. C.	<2000						1	ug/l				
b. Chemical Oxygen Demand (COD)	<12000						1	ug/l				
c. Total Organic Carbon (TOC)	3300						1	ug/l				
d. Total Suspended Solids (TSS)	3000						1	ug/l				
e. Total Nitrogen (as N)	40						1	ug/l				
f. Total Phosphorus (as P)	26						1	ug/l				
g. Ammonia (as N)	<24						1	ug/l				
h. Flow - actual or projected	Value 0		Value		Value					Value		
i. Flow - design	Value		Value		Value					Value		
j. Specific Conductivity	Value 350		Value		Value		1	umhos/cm		Value		
k. Temperature (winter)	Value		Value		Value			°C		Value		
l. Temperature (summer)	Value		Value		Value			°C		Value		
m. pH	Min.	Max	Min.	Max.				STANDARD UNITS				

*Conc. = Concentration

PART B - Mark "X" in column 2a for each pollutant you know or have reason to believe is present. Mark "X" in column 2b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. Pollutant and CAS No. (if available)	2. Mark "X"		3. Effluent						4. Units		5. Intake (optional)			
	a. be- lieved present	b. be- lieved absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
			(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
a. Bromide (24949-67-9)	☒	☐	<10						1	ug/l				
b. Chlorine, Total Residual	☐	☒	<0.002						1	ug/l				
c. Color	☒	☐	10						1	PCU				
d. Fecal Coliform	☒	☐	110						1	MPN				
e. Fluoride (16984-48-8)	☒	☐	240						1	ug/l				
f. Nitrate-Nitrite (as N)	☒	☐	6						1	ug/l				

Item V-B Contd

Facility ID. Number: FL0002283 Outfall No. Ash Pond

1. Pollutant and CAS No. (if available)	2. Mark "X"		3. Effluent						4. Units		5. Intake (optional)			
	a. believed present	b. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
			(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
g. Nitrogen, Total Organic (as N)	☒	☐	190						1	ug/l				
h. Oil and grease	☐	☒	<3500						1	ug/l				
i. Phosphorus, Total (as P) (7723-14-0)	☒	☐	0.026						1	ug/l				
j. Radioactivity														
(1) Alpha, Total	☒	☐	1.6 +/- 0.6						1	pCi/l				
(2) Beta, Total	☒	☐	5.8 +/- 0.8						1	pCi/l				
(3) Radium, Total	☒	☐	1.1 +/- 0.5						1	pCi/l				
(4) Radium 226, Total	☒	☐	0.2 +/- 0.1						1	pCi/l				
k. Sulfate (as SO ₄) (14808-79-8)	☒	☐	140000						1	ug/l				
l. Sulfide (as S)	☐	☒	<36						1	ug/l				
m. Sulfite (as SO ₃) (14265-45-3)	☐	☒	860						1	ug/l				
n. Surfactants	☐	☒	<68						1	ug/l				
o. Aluminum, Total (7429-90-5)	☒	☐	98						1	ug/l				
p. Barium, Total (7440-39-3)	☒	☐	99						1	ug/l				
q. Boron, Total (7440-42-8)	☒	☐	710						1	ug/l				
r. Cobalt, Total (7440-48-4)	☐	☒	0.055						1	ug/l				
s. Iron, Total (7439-89-6)	☒	☐	180						1	ug/l				
t. Magnesium, Total (7439-95-4)	☒	☐	7000						1	ug/l				
u. Molybdenum, Total (7439-98-7)	☒	☐	30						1	ug/l				
v. Manganese, Total (7439-96-5)	☒	☐	85						1	ug/l				
w. Tin, Total (7440-31-5)	☐	☒	<0.6						1	ug/l				
x. Titanium, Total (7440-32-6)	☒	☐	5.0						1	ug/l				

Facility ID. Number: FL0002283 Outfall No. Ash Pond

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2a for all GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2a (secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2b for each pollutant you know or have reason to believe is present. Mark "X" in column 2c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	☒	☐	☐	0.05						1	ug/l				
2M. Arsenic, Total (7723-14-0)	☒	☐	☐	59						1	ug/l				
3M. Beryllium, Total (7440-41-7)	☒	☐	☐	<0.07						1	ug/l				
4M. Cadmium, Total (7440-43-9)	☒	☐	☐	0.06						1	ug/l				
5M. Chromium, Total (7440-47-3)	☒	☐	☐	<2.5						1	ug/l				
6M. Copper, Total (7440-50-8)	☒	☐	☐	0.3						1	mg/l				
7M. Lead, Total (7439-92-1)	☒	☐	☐	0.1						1	ug/l				
8M. Mercury, Total (7439-97-6)	☒	☐	☐	<0.16						1	ug/l				
9M. Nickel, Total (7440-02-0)	☒	☐	☐	3.5						1	ug/l				
10M. Selenium, Total (7782-49-2)	☒	☐	☐	5.3						1	ug/l				
11M. Silver, Total (7440-22-4)	☒	☐	☐	<0.05						1	ug/l				
12M. Thallium, Total (7440-28-0)	☒	☐	☐	<0.4						1	ug/l				
13M. Zinc, Total (7440-66-6)	☒	☐	☐	<4.5						1	ug/l				
14M. Cyanide, Total (57-12-5)	☒	☐	☐	<6.0						1	ug/l				
15M. Phenols, Total	☒	☐	☐	<3.0						1	ug/l				
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)	☒	☐	☐							1	pg/l				
1V. Acrolein (107-02-8)	☒	☐	☐	<2.8						1	ug/l				
2V. Acrylonitrile (107-13-1)	☒	☐	☐	<5.4						1	ug/l				

Facility ID. Number: FL0002283 Outfall No. Ash Pond

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)															
3V. Benzene (71-43-2)	☒	☐	☐	<0.49						1	ug/l				
4V. Bis (Chloromethyl) Ether (542-88-1)	☐	☐	☐	NA						0	ug/l				
5V. Bromoform (75-25-2)	☒	☐	☐	<0.9						1	ug/l				
6V. Carbon Tetrachloride (56-23-5)	☒	☐	☐	<0.76						1	ug/l				
7V. Chlorobenzene (108-90-7)	☒	☐	☐	<0.93						1	ug/l				
8V. Chlorodi-bromomethane (124-8-1)	☒	☐	☐	<0.75						1	ug/l				
9V. Chloroethane (74-00-3)	☒	☐	☐	<0.53						1	ug/l				
10V. 2-Chloro-ethylvinyl Ether (110-75-8)	☒	☐	☐	<3.3						1	ug/l				
11V. Chloroform (67-86-3)	☒	☐	☐	<0.42						1	ug/l				
12V. Dichloro-bromomethane (75-24-4)	☒	☐	☐	<0.67						1	ug/l				
13V. Dichloro-difluoromethane (75-71-8)	☒	☐	☐	<0.54						1	ug/l				
14V. 1,1-Dichloroethane (75-34-3)	☒	☐	☐	<0.5						1	ug/l				
15V. 1,2-Dichloroethane (107-06-2)	☒	☐	☐	<0.44						1	ug/l				
16V. 1,1-Dichloroethylene (75-35-4)	☒	☐	☐	<0.57						1	ug/l				
17V. 1,2-Dichloropropane (78-87-5)	☒	☐	☐	<0.49						1	ug/l				
18V. 1,3-Dichloropropylene (542-75-6)	☒	☐	☐	<0.65						1	ug/l				
19V. Ethylbenzene (100-41-4)	☒	☐	☐	<0.67						1	ug/l				
20V. Methyl Bromide (74-83-9)	☒	☐	☐	<0.5						1	ug/l				
21V. Methyl Chloride (74-87-3)	☒	☐	☐	<0.43						1	ug/l				
22V. Methylene Chloride (74-98-2)	☒	☐	☐	<0.38						1	ug/l				
23V. 1,1,2,2-Tetra-chloroethane (79-34-5)	☒	☐	☐	<0.99						1	ug/l				
24V. Tetrachloroethylene (127-18-4)	☒	☐	☐	<0.57						1	ug/l				

Facility ID. Number: FL0002283 Outfall No. Ash Pond

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)															
25V. Toluene (108-88-3)	☒	☐	☐	<0.51						1	ug/l				
26V. 1,2-Trans-Dichloroethylene (156-60-5)	☒	☐	☐	<0.44						1	ug/l				
27V. 1,1,2-Trichloroethane (71-55-6)	☒	☐	☐	<0.86						1	ug/l				
28V. 1,1,2-Trichloroethane (7900-5)	☒	☐	☐	<0.86						1	ug/l				
29V. Trichloroethylene (79-01-6)	☒	☐	☐	<0.49						1	ug/l				
30V. Trichloro-fluoromethane (75-69-4)	☒	☐	☐	<0.48						1	ug/l				
31V. Vinyl Chloride (75-01-4)	☒	☐	☐	<0.54						1	ug/l				
1A. 2-Chlorophenol (95-57-8)	☒	☐	☐	<4.0						1	ug/l				
2A. 2,4-Dichlorophenol (120-83-2)	☒	☐	☐	<3.7						1	ug/l				
3A. 2,4-Dimethylphenol (105-67-9)	☒	☐	☐	<4.2						1	ug/l				
4A. 4,6-Dinitro-O-Cresol (534-53-1)	☒	☐	☐	<4.1						1	ug/l				
5A. 2,4-Dinitrophenol (51-28-5)	☒	☐	☐	<3.4						1	ug/l				
6A. 2-Nitrophenol (88-75-5)	☒	☐	☐	<3.2						1	ug/l				
7A. 4-Nitrophenol (100-02-7)	☒	☐	☐	<2.8						1	ug/l				
8A P-Chloro-M-Cresol (59-50-7)	☒	☐	☐	<4.8						1	ug/l				
9A Pentachlorophenol (87-86-5)	☒	☐	☐	<3.6						1	ug/l				
10A Phenol (108-95-2)	☒	☐	☐	<5.0						1	ug/l				
11A 2,4,5-Trichloro-phenol (88-06-2)	☒	☐	☐	<6.5						1	ug/l				
1B. Acenaphthene (63-32-9)	☒	☐	☐	<4.6						1	ug/l				
2B. Acenaphthylene (208-96-8)	☒	☐	☐	<6.5						1	ug/l				
3B. Anthracene (120-12-7)	☒	☐	☐	<4.3						1	ug/l				
4B. Benzidine (92-87-5)	☒	☐	☐	<17						1	ug/l				

Facility ID. Number: FL0002283 Outfall No. Ash Pond

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
5B. Benzo (a) Anthracene (56-55-3)	☒	☐	☐	<5.5						1	ug/l				
6B. Benzo (a) Pyrene (50-32-8)	☒	☐	☐	<6.5						1	ug/l				
7B. 3,4-Benzo-fluoranthene (205-99-2)	☒	☐	☐	<5.5						1	ug/l				
8B. Benzo (ghi) Perylene (191-24-2)	☒	☐	☐	<5.0						1	ug/l				
9B. Benzo (k) Fluoranthene (207-08-9)	☒	☐	☐	<6.0						1	ug/l				
10B. Bis (2-Chloroethoxy) Methane (111-91-1)	☒	☐	☐	<9.5						1	ug/l				
11B. Bis (2-chloroethyl) Ether (111-44-4)	☒	☐	☐	<3.9						1	ug/l				
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)	☒	☐	☐	<2.6						1	ug/l				
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	☒	☐	☐	<11						1	ug/l				
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	☒	☐	☐	<4.5						1	ug/l				
15B Butyl Benzyl Phthalate (84-68-7)	☒	☐	☐	<5.5						1	ug/l				
16B. 2-Chloronaphthalene (91-58-7)	☒	☐	☐	<4.0						1	ug/l				
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	☒	☐	☐	<4.1						1	ug/l				
18B. Chrysene (218-01-9)	☒	☐	☐	<5.5						1	ug/l				
19B. Dibenzo (a,h) Anthracene (53-70-3)	☒	☐	☐	<4.6						1	ug/l				
20B. 1,2-Dichlorobenzene (95-50-1)	☒	☐	☐	<4.6						1	ug/l				
21B. 1,3-Dichlorobenzene (541-73-1)	☒	☐	☐	<4.2						1	ug/l				
22B. 1,4-Dichlorobenzene (106-46-7)	☒	☐	☐	<4.4						1	ug/l				
23B. 3,3'-Dichlorobenzidine (92-94-1)	☒	☐	☐	<10						1	ug/l				
24B. Diethyl Phthalate (84-66-2)	☒	☐	☐	<5.5						1	ug/l				
25B. Dimethyl Phthalate (131-11-3)	☒	☐	☐	<4.9						1	ug/l				
26B. Di-N-Butyl Phthalate (84-74-2)	☒	☐	☐	<10						1	ug/l				
27B. 2,4-Dinitrotoluene (121-14-2)	☒	☐	☐	<4.1						1	ug/l				
28B. 2,6-Dinitrotoluene (606-20-2)	☒	☐	☐	<4.2						1	ug/l				

Facility ID. Number: FL0002283 Outfall No. Ash Pond

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
29B. Di-N-Octyl Phthalate (117-84-0)	☒	☐	☐	<7.0						1	ug/l				
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	☒	☐	☐	<10						1	ug/l				
31B. Fluoranthene (206-44-0)	☒	☐	☐	<4.9						1	ug/l				
32B. Fluorene (86-73-7)	☒	☐	☐	<4.3						1	ug/l				
33B. Hexachlorobenzene (118-74-1)	☒	☐	☐	<4.0						1	ug/l				
34B. Hexachlorobutadiene (87-68-3)	☒	☐	☐	<4.6						1	ug/l				
35B. Heptachlorocyclopentadiene (77-47-4)	☒	☐	☐	<3.0						1	ug/l				
36B. Hexachloroethane (67-72-1)	☒	☐	☐	<4.9						1	ug/l				
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	☒	☐	☐	<5.5						1	ug/l				
38B. Isophorone (78-59-1)	☒	☐	☐	<4.8						1	ug/l				
39B. Naphthalene (91-20-3)	☒	☐	☐	<3.8						1	ug/l				
40B. Nitrobenzene (98-95-9)	☒	☐	☐	<3.3						1	ug/l				
41B N-Nitrosodimethylamine (62-75-9)	☒	☐	☐	<4.4						1	ug/l				
42B. N-Nitrosodi-N-Propylamine (621-64-7)	☒	☐	☐	<4.2						1	ug/l				
43B. N-Nitrosodiphenylamine (86-30-6)	☒	☐	☐	<12						1	ug/l				
44B Phenanthrene (85-01-8)	☒	☐	☐	<5.0						1	ug/l				
45B. Pyrene (129-00-0)	☒	☐	☐	<8.0						1	ug/l				
46B. 1,2,4-Trichlorobenzene (120-82-1)	☒	☐	☐	<4.0						1	ug/l				
1P. Aldrin (309-00-2)	☐	☐	☒	<0.0045						1	ug/l				
2P. -BHC (319-84-6)	☐	☐	☒	<0.0056						1	ug/l				
3P -BHC (319-85-7)	☐	☐	☒	<0.0036						1	ug/l				
4P. -BHC (58-89-9)	☐	☐	☒	<0.010						1	ug/l				
5P. -BHC (319-86-8)	☐	☐	☒	<0.0049						1	ug/l				

Facility ID. Number: FL0002283

Outfall No. Ash Pond

1. Pollutant and CAS No. (if available)	2. Mark "X"			3. Effluent						4. Units		5. Intake (optional)			
	a. testing required	b. believed present	c. believed absent	a. Maximum Daily Value		b. Max. 30-day Value (if available)		c. Long Term Avg. Value (if available)		d. No. of Analyses	a. Conc.	b. Mass	a. Long Term Avg. Value		b. No. of Analyses
				(1) Conc.	(2) Mass	(1) Conc.	(2) Mass	(1) Conc.	(2) Mass				(1) Conc.	(2) Mass	
6P. Chlordane (57-74-9)	☐	☐	☒	<0.032						1	ug/l				
7P. 4,4'-DDT (50-29-3)	☐	☐	☒	<0.0084						1	ug/l				
8P. 4,4'-DDE (72-55-9)	☐	☐	☒	<0.0064						1	ug/l				
9P. 4,4'-DDD (72-54-8)	☐	☐	☒	<0.0076						1	ug/l				
10P. Dieldrin (60-57-1)	☐	☐	☒	<0.0074						1	ug/l				
11P. -Endosulfan (115-29-7)	☐	☐	☒	<0.0044						1	ug/l				
12P. -Endosulfan (115-29-7)	☐	☐	☒	<0.0047						1	ug/l				
13P. Endosulfan Sulfate (1031-07-8)	☐	☐	☒	<0.009						1	ug/l				
14P. Endrin (72-20-8)	☐	☐	☒	<0.0067						1	ug/l				
15P. Endrin Aldehyde (7421-92-4)	☐	☐	☒	<0.0069							ug/l				
16P. Heptachlor (76-44-8)	☐	☐	☒	NA							ug/l				
17P. Heptachlor Epoxide (1024-57-3)	☐	☐	☒	NA						1	ug/l				
18P. PCB-1242 (53469-21-9)	☐	☐	☒	<0.18						1	ug/l				
19P. PCB-1254 (11097-69-1)	☐	☐	☒	<0.12						1	ug/l				
20P. PCB-1221 (11104-28-2)	☐	☐	☒	<0.17						1	ug/l				
21P. PCB-1232 (11141-16-5)	☐	☐	☒	<0.13						1	ug/l				
22P. PCB-1248 (12672-29-6)	☐	☐	☒	<0.14						1	ug/l				
23P. PCB-1260 (11096-82-5)	☐	☐	☒	<0.12						1	ug/l				
24P. PCB-1016 (12674-11-2)	☐	☐	☒	<0.11						1	ug/l				
25P. Toxaphene (8001-35-2)	☐	☐	☒	<0.31						1	ug/l				

CERTIFICATION

**PROFESSIONAL GEOLOGIST LICENSED IN THE STATE OF
FLORIDA**

This is to certify that I have reviewed and approve the contents of this Groundwater Summary Report for the Gulf Power Company, Scholz Electric Generating Plant, Sneads, Florida.

Kristi A. Kilpatrick

**Kristi A. Kilpatrick
Gulf Power Company**

Richard M. Markey
12-8-09

**Richard M. Markey
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One Energy Place
Pensacola, Florida 32520-0328
(850)444-6573**

Introduction

This report summarizes the monitoring which has been conducted since the permit was issued on July 1, 2005. Water quality data has been interpreted and trends have been presented in tabular and graphical form (Appendices B, G, and H). Hydrographs for all monitoring wells are also included in Appendix D.

On July 1, 2005, the Florida Department of Environmental Protection issued a renewal to Industrial Wastewater Permit No. FI0002283-003-IW1S. Condition III.B.8 of the ground water monitoring requirements section of this renewal requires the following:

“The permittee shall develop a written technical report pursuant to the schedule in Condition VI.4; to summarize and interpret the water quality data and water levels obtained from permit issuance to the date of renewal application submittal. The report shall be submitted by a qualified professional and shall contain the following items at a minimum:

1. Tables and graphs of water quality data, including hydrographs, for all monitoring wells. Rainfall data should be included with the hydrographs.
2. A comparison of water quality results between background wells and downgradient wells.
3. A summary of all violations of applicable water standards.
4. Ground water contour maps for each sampling event.
5. A discussion of any data that is thought to be inconsistent or suspect.
6. A summary of the physical condition of the monitoring system. This should be based on visual observation and sampling records.”

As a result of this renewal, this groundwater summary report provides an evaluation of groundwater data from November 7, 2005 to September 4, 2009. A copy of the Condition III.B.8 is included in Appendix A. The tasks described above are included in Appendices B through H. An electronic copy of the laboratory data sheets is included in Appendix I. Electronic copies of groundwater reports are also included in Appendix I.

The current monitoring network consists of 10 wells for determining water quality and trends analysis in the two separate and distinct aquifer zones. These zones are described in the permit as the Surficial aquifer and the Floridan aquifer. Four additional piezometers are utilized with the other monitoring network to determine groundwater flow. The current monitoring network consists of the following:

Surficial Aquifer (Unit 1):

<u>Test Site Name</u>	<u>Designation</u>
MWC-2031	Compliance
MWI-204	Intermediate
MWB-2051	Background

MWI-210S Intermediate

Floridan Aquifer (Unit 2):

<u>Test Site Name</u>	<u>Designation</u>
MWC-2	Compliance
MWC-203	Compliance
MWC-204	Compliance
MWB-205	Background
MWC-210	Compliance
MWC-212	Compliance
MWP-103	Piezometer
MWP-105	Piezometer
MWP-110	Piezometer
MWP-112	Piezometer

Tables and Graphs of Groundwater Quality Including Hydrographs:

As required in Industrial Wastewater permit FL0002283-003-IW1S, tables and graphs of groundwater quality including hydrographs have been included in this report. The tables of water quality are located in Appendix B. The graphs of water quality are located in Appendixes G (Surficial aquifer monitoring wells) and H (Floridan aquifer monitoring wells).

Hydrographs for the Surficial and Floridan zones are included in Appendix D. The tables of rainfall data and water levels in graphical form are also located in Appendix D. Both zones which are being monitored for water quality are visibly affected by increases and decreases in rainfall as well as elevation of the Apalachicola River.

All water quality data reported in this report is in accordance with the requirements found in Section E.1.C. Plant Scholz's Industrial Wastewater Facility Permit.

A Comparison of Water Quality Results Between Upgradient Wells and Downgradient Wells (Intermediate and Compliance):

In order to compare background wells versus intermediate and compliance wells, all water quality data was placed in tabular form for each aquifer zone. These tables are located in Appendix C.

Unit 1 wells are screened within the Surficial aquifer. These wells are comparable to background well MWB-2051 with respect to water quality with the exception of slightly elevated iron, TDS, sulfate and manganese. It should be noted that the parameters that were detected in this aquifer are well beneath applicable groundwater standards.

Five wells, MWC-2, MWC-203, MWC-204, MWC-210, and MWC-212, are currently being sampled within Unit 2 and have been designated compliance wells. These wells are comparable to background well MWB-205 with respect to water quality with the exception of slightly elevated Iron, Manganese, and Sulfate in wells MWC-203 and MWC-210. Levels of total dissolved solids and specific conductance were also slightly elevated in all wells on-site. Sulfate was also slightly higher than background in well MWC-212.

In reference to the Administrative Order that was included in this permit for investigating arsenic, Leggette, Bashears, and Graham, Inc. (LBG) conducted the study, and based on the results of their evaluation, "The most reasonable explanation is a naturally-occurring source from which arsenic is periodically liberated as a result of variable pH and redox conditions." In addition, Gulf Power has detected background concentrations in the background well during our investigation and normal sampling.

On August 24, 2006, Gulf Power received correspondence from Allen Hubbard, P.E. (that included a technical review by Mr. Allan Stodghill, P.G.) which indicated agreement with the findings of LBG. As a result, it is recommended that the new permit require report only for arsenic at this site.

A Summary of All Violations of Applicable Water Standards:

Water quality data for the monitoring well network has been collected since the initial characterization event on November 11, 2005. All data was reviewed to determine whether violations in applicable water quality standards occurred. There were no violations of applicable water quality standards.

A trends analysis was conducted on parameters which were tested. The graphs used to evaluate trends are included in Appendices G and H. No violations in applicable water standards have occurred.

Groundwater Contour Maps for Each Sampling Event:

Two potentiometric maps have been prepared for each annual sampling event. The Units 1 and 2 potentiometric maps are included in Appendices E and F, respectively. Figures 1 through 10 illustrate all water level events for the two zones which are monitored.

Figures 1 through 5 (Appendix E) depict the groundwater flow directions in the Surficial Aquifer (unit 1). Flow direction is towards the southeast during the 2005-2009 sampling events.

Figures 6 through 10 are included in Appendix F and depict groundwater flow in the Floridan Aquifer (unit 2). Flow direction is towards the southeast during the 2006-2009 sampling events, with the exception of the January 6, 2006 event. Monitoring well

MWC-204 has an elevated level in this sample event, which is inconsistent with other wells in the unit and other sample events from the same well.

A Discussion of Any Data that is Thought to be Inconsistent or Suspect:

In review of the water quality data and groundwater elevation data, several inconsistent and suspect readings exist. The first is the groundwater elevation of 84.25 feet NGVD reported in MWC-210S in the January 6, 2006 sample event. After well purging was initiated, the well was run dry. It is theorized that the water detected was in the well cap at the end of this well and not the true water level.

The second is the groundwater elevation of 72.25 feet NGVD in well MWC-204 during the January 6, 2006 sample event. This elevation is inconsistent and higher than all other well elevations in Unit 2 for this sample event all other elevations for this well over the duration of this report. This elevated level has in turn made the flow direction during this sample event suspect.

The next data point that is suspect is the aluminum concentration in MWI-204 of 5.9 mg/L during the November 7, 2005 event. All other sampling events showed non-detect or low levels for this constituent.

The last item that is inconsistent is the sample proceedings for reporting year 2005. As stated in the report submittal to the department dated January 12, 2006, the contract lab did not conduct a complete sampling of the well system during 2005, so data from another sampling (Administrative Order AO014 TL) of the wells was submitted. Only TDS was excluded from this sample event, and the contract lab conducted this sampling on January 6, 2006. Also, the groundwater elevations from the November 2005 event were not taken on the same day, so the elevations from the January 6, 2006 event were reported and utilized in the groundwater flow maps.

A Summary of the Physical Condition of the Monitoring System. This should be based on a Visual Observation and Sampling Records:

The physical condition of the current water quality testing system has been evaluated. All wells appear to be in good working order with the exception of well MWI-210S. This well has been dry due to a lack of rainfall to this area of the surficial aquifer.

Conclusion

Groundwater at Plant Scholz remains in compliance with applicable groundwater standards. As indicated above, geochemical and hydrogeologic evaluations were conducted on the natural presence of arsenic in the Floridan Aquifer wells (background and compliance). The Department has agreed with our consultants that arsenic present is related to the natural arsenic present in the Floridan Aquifer. This occurrence has been

documented throughout Florida. I propose that this parameter be listed as "report only" in our permit for the groundwater monitoring network.

It is also proposed that cadmium, selenium, chromium, lead, and mercury be monitored once per permit cycle due to their minimal detection in the on-site monitoring network.

The current monitoring network is in good shape and is adequate to monitor groundwater conditions at this site. No additions or modifications to this plan are necessary.

REFERENCES

Markey, Richard M., Plant Scholz Groundwater Monitoring Plan, Implementation Report, Pensacola, Florida, Gulf Power Company, March 27, 1997.

Wagner, Jeffery R., et al, "Water Resources Assessment 80-1", Northwest Florida Water Management District, 1980.

Wagner, Jeffery R., et al, Florida's Groundwater Quality Monitoring Program, Hydrogeologic Framework", Florida Geological Survey, Special Publication No. 32, 1991.

REFERENCES

Markey, Richard M., Plant Scholz Groundwater Monitoring Plan, Implementation Report, Pensacola, Florida, Gulf Power Company, March 27, 1997.

Wagner, Jeffery R., et al, "Water Resources Assessment 80-1", Northwest Florida Water Management District, 1980.

Wagner, Jeffery R., et al, Florida's Groundwater Quality Monitoring Program, Hydrogeologic Framework", Florida Geological Survey, Special Publication No. 32, 1991.

Appendices

Appendix A – Specific Condition III.B.8

Appendix B – Summary of Analytical Results

Appendix C – Comparison of Background and Downgradient Wells

Appendix D – Hydrographs, Water Level Summary, and Rainfall Data

Appendix E – Unit 1 Potentiometric Maps

Appendix F – Unit 2 Potentiometric Maps

Appendix G – Unit 1: Metal Concentration, General Chemistry, and Field Service
Summary Graphs

Appendix H - Unit 2: Metal Concentration, General Chemistry, and Field Service
Summary Graphs

Appendix I – Lab Analyticals and Copies of Groundwater Reports (included on compact
disk)

PERMITTEE:

Gulf Power Company
One Energy Place
Pensacola, FL 32520

PERMIT NUMBER:

FL0002283-003-IW1S

Issuance date:
Expiration date:

July 1, 2005
June 30, 2010

the event that the permittee chooses not to conduct the reconfirmation sampling, the Department shall consider the initial analysis to be representative of the current water quality conditions at this facility. If the initial results demonstrate or the re-sampling confirms ground water contamination, the permittee shall notify the Department in writing within 14 days of this finding.

8. The Permittee shall develop a written technical report pursuant to the schedule in Condition VI.4; to summarize and interpret the water quality data and water levels obtained from permit issuance to the date of renewal application submittal. The report shall be submitted by a qualified professional and shall contain the following items at a minimum:
 1. Tables and graphs of water quality data, including hydrographs, for all monitoring wells. Rainfall data should be included with the hydrographs.
 2. A comparison of water quality results between background well and downgradient wells.
 3. A summary of all violations of applicable water standards.
 4. Ground water contour maps for each sampling event.
 5. A discussion of any data that is thought to be inconsistent or suspect.
 6. A summary of the physical condition of the monitoring system. This should be based on visual observation and sampling records.
9. The permittee's discharge to ground water shall not cause a violation of water quality standards for ground waters at the boundary of the zone of discharge in accordance with Rules 62-520.400 and 62-520.420, F.A.C.
10. The permittee's discharge to ground water shall not cause a violation of the minimum criteria for ground water specified in Rule 62-520.400, F.A.C., within the zone of discharge.
11. If the concentration for any constituent listed in Permit Condition III.B.3 in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative natural background quality shall be the prevailing standard.
12. Water levels shall be recorded prior to evacuating the well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NGVD allowable) at a precision of plus or minus 0.1 feet.
13. Ground water monitoring wells shall be purged prior to sampling to obtain a representative sample.
14. Analyses shall be conducted on un-filtered samples, unless the approval steps outlined in the FDEP document entitled Department Representative Ground Water Samples, Filtered or Unfiltered (January 1994) have met and approved by the Department.
15. If a monitoring well becomes damaged or cannot be sampled for some reason, the permittee shall notify the Department immediately and a written report shall follow within seven days detailing the circumstances and remedial measures taken or proposed. Repair or replacement of monitoring wells shall be approved in advance by the Department.
16. All piezometers and wells not part of the approved ground water monitoring plan are to be plugged and abandoned in accordance with Rule 62-532.500(4), F.A.C., unless there is intent for their future use.
17. The permittee shall provide verbal notice to the Department as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater or sludge. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department in a written report within 7 days of the sinkhole discovery.

SCHOLZ PLANT GROUNDWATER MONITORING PLAN

TABLE 1 (SUMMARY OF ANALYTICAL RESULTS)

Sample Date	Groundwater Elevation (ft NGVD)	TDS (Total) mg/L	pH (field)	Specific Conductance umhos/cm	Aluminum (Total) mg/L	Arsenic (Total) mg/L	Cadmium (Total) mg/L	Chloride (Total) mg/L	Chromium (Total) mg/L	Iron (Total) mg/L	Lead (Total) mg/L	Manganese (Total) mg/L	Mercury (Total) mg/L	Selenium (Total) mg/L	Sulfate (Total) mg/L	Alpha (Gross Particle Activity) PC/L	Radium 226 + Radium 228 (Total) PC/L	
MWC-2	1/6/2006	NA	180	7.20	294	<0.026	<0.0034	<0.00043	15	<0.0023	<0.016	<0.0013	0.00066	<0.000078	<0.0041	7	MNR	MNR
MWC-2	4/18/2006	NA	140	5.70	305	<0.026	<0.0034	<0.00043	4	<0.0023	<0.016	<0.0013	<0.00066	0.000078	<0.0041	9.5	MNR	MNR
MWC-2	4/24/2007	NA	160	7.40	282	<0.026	<0.0034	<0.00043	14	<0.0023	0.016	<0.0013	<0.00066	<0.000078	<0.0041	0.31	MNR	MNR
MWC-2	5/21/2008	NA	150	7.80	346	<0.018	0.0031	<0.00042	26	0.0014	0.022	<0.0029	0.0023	<0.00016	<0.0030	1	MNR	MNR
MWC-2	5/20/2009	NA	180	8.40	337	<0.012	<0.001	<0.00012	31	<0.005	<0.045	<0.0002	<0.0026	<0.00007	0.00059	<0.93	MNR	MNR
MWC-2	9/4/2009															1.0±0.4		
MWC-203	11/8/2005	44.74		6.40	371	<0.10	<0.0050	<0.010	6.1	<0.0020	1.5	<0.0050	0.6	<0.00020	<0.0050	25	MNR	MNR
MWC-203	1/6/2006	52.30	209	7.10	340													
MWC-203	4/18/2006	46.00	180	6.20	461	<0.026	0.0034	<0.00043	3.7	<0.0023	3.3	<0.0013	1.3	0.000078	<0.0041	31	MNR	MNR
MWC-203	4/24/2007	45.66	260	6.70	446	0.03	0.0034	0.00043	6.1	0.0023	1.5	<0.0013	0.9	<0.00078	0.0041	29	MNR	MNR
MWC-203	5/21/2008	44.54	260	6.60	556	<0.018	0.049	<0.00042	6.1	0.0018	10	<0.0029	1.9	<0.00016	<0.0030	39	MNR	MNR
MWC-203	5/20/2009	49.94	280	6.80	507	<0.012	0.01	<0.00006	6.8	<0.0025	4.7	<0.0001	1.8	<0.00007	<0.0003	31	MNR	MNR
MWC-203	9/4/2009															1.5±1.7		
MWC-204	11/7/2005	46.91		7.68	250	<0.10	<0.0050	<0.010	<5.0	<0.0020	<0.050	<0.0050	0.005	<0.00020	<0.0050	<5.0	MNR	MNR
MWC-204	1/6/2006	72.75	150	7.80	259													
MWC-204	4/18/2006	48.01	130	7.40	275	0.05	<0.0034	<0.00043	15	<0.0023	0.016	<0.0013	0.00066	0.000078	<0.0041	6.6	MNR	MNR
MWC-204	4/24/2007	47.31	180	8.00	267	<0.026	<0.0034	0.00043	8.4	<0.0023	0.016	<0.0013	<0.00066	<0.000078	<0.0041	0.31	MNR	MNR
MWC-204	5/21/2008	47.10	120	7.00	240	<0.018	0.0074	<0.00042	3.5	<0.00078	18	<0.0029	0.36	<0.00016	<0.0029	11	MNR	MNR
MWC-204	5/20/2009	50.52	360	7.80	300	0.09	<0.0005	<0.00006	11	<0.0025	0.022	<0.0001	0.0013	<0.00007	<0.0003	18	MNR	MNR
MWC-204	9/3/2009															0.7±0.4		
MWC-210	11/7/2005	44.70		6.18	2092	<0.10	<0.0050	<0.010	15	<0.0020	47	<0.0050	1.7	<0.00020	<0.0050	1200	MNR	MNR
MWC-210	1/6/2006	52.20	830	5.90	1447													
MWC-210	4/18/2006	45.76	1800	6.20	2160	<0.026	<0.0034	0.00043	15	<0.0023	40	<0.0013	1.6	0.000078	<0.0041	1300	MNR	MNR
MWC-210	4/24/2007	45.69	2000	6.40	2200	<0.026	<0.0034	0.00043	13	<0.0023	39	<0.0013	1.7	<0.00078	<0.0041	1000	MNR	MNR
MWC-210	5/21/2008	44.82	1800	6.30	216	<0.018	0.0062	<0.00042	12	0.00093	66	<0.0029	1.7	<0.00016	<0.0030	890	MNR	MNR
MWC-210	5/20/2009	49.55	1600	6.70	1840	<0.012	<0.0005	0.00006	14	<0.0025	20	0.0001	1.3	<0.00007	<0.0003	810	MNR	MNR
MWC-210	9/3/2009															7.4±1.5		0.9±1.2
MWC-212	11/8/2005	46.68		7.01	378	<0.10	<0.0050	<0.010	6.5	<0.0020	<0.050	<0.0050	0.005	<0.00020	<0.0050	34	MNR	MNR
MWC-212	1/6/2006	52.73	330	7.00	541													
MWC-212	4/18/2006	47.53	270	6.80	449	0.03	<0.0034	<0.00043	5.4	<0.0023	0.048	<0.0013	0.00066	0.00027	<0.0041	27	MNR	MNR
MWC-212	4/24/2007	47.00	250	7.40	410	0.03	<0.0034	0.00043	6.4	<0.0023	0.18	<0.0013	0.00066	<0.00078	<0.0041	24	MNR	MNR
MWC-212	5/21/2008	46.60	210	7.30	381	0.07	<0.0023	<0.00042	5.4	0.0033	0.054	<0.0029	0.0081	<0.00016	<0.0030	22	MNR	MNR
MWC-212	5/20/2009	50.36	230	7.50	408	0.04	0.0015	<0.00006	6.4	<0.0025	0.022	<0.0001	0.0013	<0.00007	0.0003	25	MNR	MNR
MWC-212	9/4/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	0.0±0.4		
MWC-2031	11/9/2005	46.17	NDA	5.79	328	<0.10	<0.0050	<0.010	5.4	<0.0020	34	<0.0050	3.5	<0.00020	<0.0050	18	MNR	MNR
MWC-2031	1/6/2006	51.65	180	6.90	295	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWC-2031	4/18/2006	49.40	150	6.80	332	<0.026	<0.0034	<0.00043	5	<0.0023	0.74	<0.0013	0.059	0.000078	<0.0041	15	MNR	MNR
MWC-2031	4/24/2007	47.35	250	6.90	426	<0.026	<0.0034	0.00043	5.3	<0.0023	3.7	<0.0013	3.8	<0.00078	<0.0041	11	MNR	MNR
MWC-2031	5/21/2008	47.36	210	6.80	380	0.11	0.0049	<0.00042	5.1	0.0019	16	<0.0029	3.8	<0.00016	<0.0030	25	MNR	MNR
MWC-2031	5/20/2009	50.81	170	6.80	300	0.10	<0.0005	<0.00006	5.6	<0.0025	3	0.0001	3.5	<0.00007	<0.0003	15	MNR	MNR
MWC-2031	9/4/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	0.8±0.4		
MWB-205	11/9/2005	52.74	NDA	6.69	195	<0.10	<0.0050	<0.010	<5.0	<0.0020	<0.050	<0.0050	0.005	<0.00020	<0.0050	<5.0	MNR	MNR
MWB-205	1/6/2006	54.88	130	8.70	208	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWB-205	4/18/2006	53.09	77	7.60	270	0.03	0.0034	<0.00043	4.2	<0.0023	<0.016	<0.0013	<0.00066	0.000078	<0.0041	1	MNR	MNR
MWB-205	4/24/2007	51.96	140	9.10	223	<0.026	<0.0034	<0.00043	4.8	<0.0023	<0.016	<0.0013	0.00066	<0.00078	<0.0041	0.31	MNR	MNR
MWB-205	5/21/2008	52.81	130	10.60	450	0.88	<0.0023	<0.00042	3.9	0.008	3.3	<0.0029	0.013	<0.00016	<0.0030	12	MNR	MNR
MWB-205	5/20/2009	55.46	99	9.20	164	0.06	<0.0005	<0.00006	4.1	<0.0025	0.022	0.0001	<0.0013	<0.00007	<0.0003	0.93	MNR	MNR
MWB-205	9/3/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	0.0±0.5		
MWB-2051	11/9/2005	117.97	NDA	4.46	41	<0.01	<0.0050	<0.010	7.1	<0.0020	<0.050	<0.0050	0.005	<0.00020	<0.0050	<5.0	MNR	MNR
MWB-2051	1/6/2006	117.00	22	4.50	38	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWB-2051	4/18/2006	118.04	5	7.70	37	<0.026	0.0032	<0.00043	3.6	<0.0023	<0.016	<0.0013	0.00066	0.00029	<0.0041	<0.31	MNR	MNR
MWB-2051	4/24/2007	117.68	18	5.10	34	<0.026	<0.0034	0.00043	6	<0.0023	0.016	<0.0013	0.00066	<0.00078	<0.0041	0.31	MNR	MNR
MWB-2051	5/21/2008	120.65	23	5.70	38	0.03	<0.0023	<0.00042	5.8	0.0011	0.091	<0.0029	0.0041	<0.00016	<0.0030	<0.93	MNR	MNR
MWB-2051	5/20/2009	123.13	27	5.30	44	0.05	<0.0005	<0.00006	9.1	<0.0025	0.022	0.0001	0.0013	<0.00007	<0.0003	<0.93	MNR	MNR
MWB-2051	9/3/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	0.0±0.5		
MWI-204	11/7/2005	98.06	NDA	6.31	651	5.90	<0.0050	<0.010	8	0.0098	9	0.0059	0.51	<0.00020	<0.0050	35	MNR	MNR
MWI-204	1/6/2006	99.39	300	7.30	522	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWI-204	4/18/2006	97.66	260	6.30	805	<0.026	0.0034	0.00043	3.6	<0.0023	13	<0.0013	1.5	0.000078	<0.0041	24	MNR	MNR
MWI-204	4/24/2007	97.87	400	6.70	632	<0.026	<0.0034	0.00043	10	<0.0023	15	<0.0013	1.8	<0.00078	<0.0041	25	MNR	MNR
MWI-204	5/21/2008	96.38	320	6.90	637	0.04	0.005	<0.00042	12	<0.00078	56	<0.0029	1.9	<0.00016	0.0030	23	MNR	MNR
MWI-204	5/20/2009	97.98	150	6.80	709	<0.012	0.0043	<0.00006	11	<0.0025	21	<0.0001	2.2	<0.00007	<0.0003	24	MNR	MNR
MWI-204	9/4/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	2.6±1.3		
MWI-210S	11/8/2005	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	MNR	MNR
MWI-210S	1/6/2006	84.25	240	6.7	382	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWI-210S	4/18/2006	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	MNR	MNR
MWI-210S	4/24/2007	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	MNR	MNR
MWI-210S	5/21/2008	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	MNR	MNR
MWI-210S	5/20/2009	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	MNR	MNR
MWI-210S	9/4/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	1.0±0.4		

NDA: No Data Available MNR: Monitoring Not Required

*All laboratory results were reported in accordance with instructions on the Facility's Discharge

SCHOLZ PLANT GROUNDWATER MONITORING PLAN

TABLE 2 (Comparison between background and downgradient wells)*

Unit 1 - Surficial Aquifer

	Sample Date	Groundwater Elevation (ft NGVD)	TDS (Total) mg/L	pH (field)	Specific Conductance umhos/cm	Aluminum (Total) mg/L	Arsenic (Total) mg/L	Cadmium (Total) mg/L	Chloride (Total) mg/L	Chromium (Total) mg/L	Iron (Total) mg/L	Lead (Total) mg/L	Manganese (Total) mg/L	Mercury (Total) mg/L	Selenium (Total) mg/L	Sulfate (Total) mg/L	Alpha (Gross Particle Activity) PCI/L	Radium 226 + Radium 228 (Total) PCI/L
MWC-2031	11/9/2005	46.17	NDA	5.79	328	<0.10	<0.0050	<0.010	5.4	<0.0020	34	<0.0050	3.5	<0.00020	<0.0050	16	MNR	MNR
MWC-2031	1/6/2006	51.65	180	6.90	295	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWC-2031	4/18/2006	49.40	150	6.80	332	<0.026	<0.0034	<0.00043	5	<0.0023	0.74	<0.0013	0.059	0.000078	<0.0041	15	MNR	MNR
MWC-2031	4/24/2007	47.35	250	6.90	426	<0.026	<0.0034	0.00043	5.3	<0.0023	3.7	<0.0013	3.8	<0.000078	<0.0041	11	MNR	MNR
MWC-2031	5/21/2008	47.36	210	6.80	380	0.11	0.0049	<0.00042	5.1	0.0019	16	<0.0029	3.8	<0.00016	<0.0030	25	MNR	MNR
MWC-2031	5/20/2009	50.81	170	6.80	300	0.10	<0.0005	<0.00006	5.6	<0.0025	3	0.0001	3.5	<0.00007	<0.0003	15	MNR	MNR
MWC-2031	9/4/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	0.8±0.4	NDA
MWB-2051	11/9/2005	117.97		4.46	41	<0.01	<0.0050	<0.010	7.1	<0.0020	<0.050	<0.0050	0.005	<0.00020	<0.0050	<5.0	MNR	MNR
MWB-2051	1/6/2006	117.00	22	4.50	38	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWB-2051	4/18/2006	118.04	5	7.70	37	<0.026	0.0032	<0.00043	3.6	<0.0023	<0.016	<0.0013	0.00066	0.00029	<0.0041	<0.31	MNR	MNR
MWB-2051	4/24/2007	117.68	18	5.10	34	<0.026	<0.0034	0.00043	6	<0.0023	0.016	<0.0013	0.00066	<0.000078	<0.0041	0.31	MNR	MNR
MWB-2051	5/21/2008	120.65	23	5.70	38	0.03	<0.0023	<0.00042	5.8	0.0011	0.091	<0.0029	0.0041	<0.00016	<0.0030	<0.93	MNR	MNR
MWB-2051	5/20/2009	123.13	27	5.30	44	0.05	<0.0005	<0.00006	9.1	<0.0025	0.022	0.0001	0.0013	<0.00007	<0.0003	<0.93	MNR	MNR
MWB-2051	9/3/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	0.0±0.5	NDA
MWI-204	11/7/2005	98.06		6.31	651	5.90	<0.0050	<0.010	8	0.0098	9	0.0059	0.51	<0.00020	<0.0050	35	MNR	MNR
MWI-204	1/6/2006	99.39	300	7.30	522	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWI-204	4/18/2006	97.66	260	6.30	605	<0.026	0.0034	0.00043	3.6	<0.0023	13	<0.0013	1.5	0.000078	<0.0041	24	MNR	MNR
MWI-204	4/24/2007	97.87	400	6.70	632	<0.026	<0.0034	0.00043	10	<0.0023	15	<0.0013	1.8	<0.000078	<0.0041	25	MNR	MNR
MWI-204	5/21/2008	98.38	320	6.90	637	0.04	0.035	<0.00042	12	<0.00076	56	<0.0029	1.9	<0.00016	0.0030	23	MNR	MNR
MWI-204	5/20/2009	97.98	150	6.80	709	<0.012	0.0043	<0.00006	11	<0.0025	21	<0.0001	2.2	<0.00007	<0.0003	24	MNR	MNR
MWI-204	9/4/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	2.6±1.3	NDA
MWI-210S	11/8/2005	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	MNR	MNR
MWI-210S	1/6/2006	84.25	240	6.7	380	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	MNR	MNR
MWI-210S	4/18/2006	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	MNR	MNR
MWI-210S	4/24/2007	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	MNR	MNR
MWI-210S	5/21/2008	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	MNR	MNR
MWI-210S	5/20/2009	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	MNR	MNR
MWI-210S	9/4/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	1.0±0.4	NDA

*All laboratory results were reported in accordance with instructions on the Facility's Discharge Monitoring Report

NDA: No Data Available MNR: Monitoring Not Required

SCHOLZ PLANT GROUNDWATER MONITORING PLAN

TABLE 3 (Comparison between background and downgradient wells)*

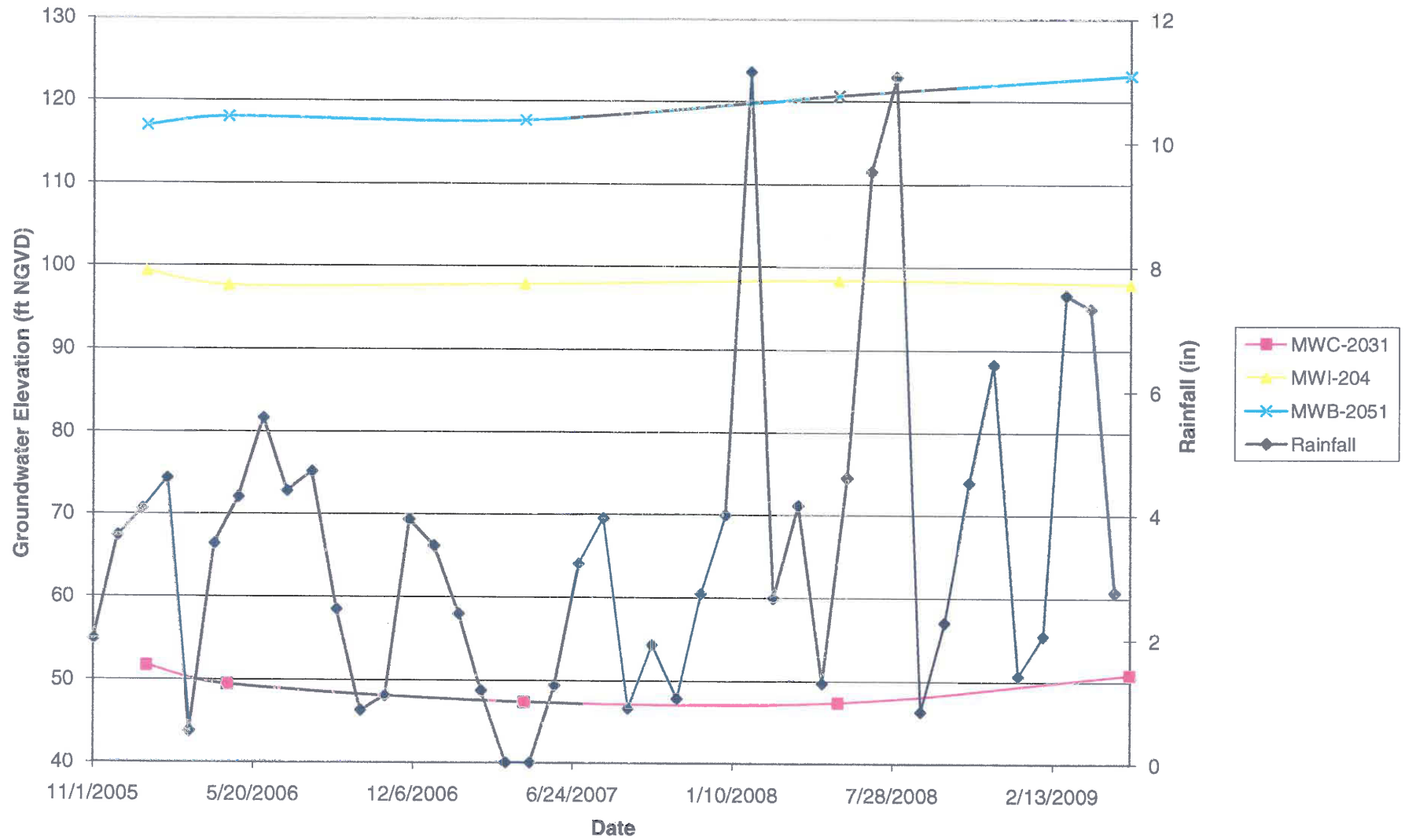
Unit 2 - Floridan Aquifer

	Sample Date	Groundwater Elevation (ft NGVD)	TDS (Total) mg/L	pH (field)	Specific Conductance umhos/cm	Aluminum (Total) mg/L	Arsenic (Total) mg/L	Cadmium (Total) mg/L	Chloride (Total) mg/L	Chromium (Total) mg/L	Iron (Total) mg/L	Lead (Total) mg/L	Manganese (Total) mg/L	Mercury (Total) mg/L	Selenium (Total) mg/L	Sulfate (Total) mg/L	Alpha (Gross Particle Activity) PCI/L	Radium 226 + Radium 228 (Total) PCI/L
MWC-2	1/6/2006	NA	180	7.20	294	<0.026	<0.0034	<0.00043	15	<0.0023	<0.016	<0.0013	0.00066	<0.000078	<0.0041	7	MNR	MNR
MWC-2	4/18/2006	NA	140	5.70	305	<0.026	<0.0034	<0.00043	4	<0.0023	<0.016	<0.0013	<0.00066	0.000078	<0.0041	9.5	MNR	MNR
MWC-2	4/24/2007	NA	160	7.40	282	<0.026	<0.0034	<0.00043	14	<0.0023	0.016	<0.0013	<0.00066	<0.000078	<0.0041	0.031	MNR	MNR
MWC-2	5/21/2008	NA	150	7.80	346	<0.018	0.0031	<0.00042	26	0.0014	0.022	<0.0029	0.0023	<0.00016	<0.0030	1	MNR	MNR
MWC-2	5/20/2009	NA	180	8.40	337	<0.012	<0.001	<0.00012	31	<0.005	<0.045	<0.0002	<0.0026	<0.00007	0.00059	<0.93	MNR	MNR
MWC-2	9/4/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	1.0±0.4	NDA
MWC-203	11/8/2005	44.74		6.40	371	<0.10	<0.0050	<0.010	6.1	<0.0020	1.5	<0.0050	0.6	<0.00020	<0.0050	25	MNR	MNR
MWC-203	1/6/2006	52.30	200	7.10	340	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWC-203	4/18/2006	46.00	180	6.20	461	<0.026	0.0034	<0.00043	3.7	<0.0023	3.3	<0.0013	1.3	0.000078	<0.0041	31	MNR	MNR
MWC-203	4/24/2007	45.66	260	6.70	446	0.03	0.0034	0.00043	6.1	0.0023	1.5	<0.0013	0.9	<0.000078	0.0041	29	MNR	MNR
MWC-203	5/21/2008	44.54	260	6.60	556	<0.018	0.049	<0.00042	6.1	0.0018	10	<0.0029	1.9	<0.00016	<0.0030	39	MNR	MNR
MWC-203	5/20/2009	49.94	280	6.80	507	<0.012	0.01	<0.00006	6.8	<0.0025	4.7	<0.0001	1.8	<0.00007	<0.0003	31	MNR	MNR
MWC-203	9/4/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	1.5±1.7	NDA
MWC-204	11/7/2005	46.91		7.68	250	<0.10	<0.0050	<0.010	<5.0	<0.0020	<0.050	<0.0050	0.005	<0.00020	<0.0050	<5.0	MNR	MNR
MWC-204	1/6/2006	72.75	150	7.80	259	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWC-204	4/18/2006	48.01	130	7.40	275	0.05	<0.0034	<0.00043	15	<0.0023	0.016	<0.0013	0.00066	0.00028	<0.0041	6.6	MNR	MNR
MWC-204	4/24/2007	47.31	160	8.00	267	<0.026	<0.0034	0.00043	8.4	<0.0023	0.016	<0.0013	<0.00066	<0.000078	<0.0041	0.31	MNR	MNR
MWC-204	5/21/2008	47.10	120	7.00	240	<0.018	0.0074	<0.00042	3.5	<0.00076	18	<0.0029	0.36	<0.00016	<0.0029	11	MNR	MNR
MWC-204	5/20/2009	50.52	360	7.80	300	0.09	<0.0005	<0.00006	11	<0.0025	0.022	<0.0001	0.0013	<0.00007	<0.0003	18	MNR	MNR
MWC-204	9/3/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	0.7±0.4	NDA
MWC-210	11/7/2005	44.70		6.18	2092	<0.10	<0.0050	<0.0010	15	<0.0020	47	<0.0050	1.7	<0.00020	<0.0050	1200	MNR	MNR
MWC-210	1/6/2006	52.20	830	5.90	1447	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWC-210	4/18/2006	45.76	1800	6.20	2160	<0.026	<0.0034	0.00043	15	<0.0023	40	<0.0013	1.6	0.000078	<0.0041	1300	MNR	MNR
MWC-210	4/24/2007	45.69	2000	6.40	2200	<0.026	<0.0034	0.00043	13	<0.0023	39	<0.0013	1.7	<0.000078	<0.0041	1000	MNR	MNR
MWC-210	5/21/2008	44.92	1800	6.30	216	<0.018	0.0062	<0.00042	12	0.00093	68	<0.0029	1.7	<0.00016	<0.0030	890	MNR	MNR
MWC-210	5/20/2009	49.55	1600	6.70	1840	<0.012	<0.0005	0.00006	14	<0.0025	20	0.0001	1.3	<0.00007	<0.0003	810	MNR	MNR
MWC-210	9/3/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	7.4±3.5	0.9±1.2
MWC-212	11/8/2005	46.68		7.01	376	<0.10	<0.0050	<0.010	6.5	<0.0020	<0.050	<0.0050	0.005	<0.00020	<0.0050	34	MNR	MNR
MWC-212	1/6/2006	52.73	330	7.00	541	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWC-212	4/18/2006	47.53	270	6.80	449	0.03	<0.0034	<0.00043	5.4	<0.0023	0.048	<0.0013	0.00066	0.00027	<0.0041	27	MNR	MNR
MWC-212	4/24/2007	47.00	250	7.40	410	0.03	<0.0034	0.00043	6.4	<0.0023	0.18	<0.0013	0.00066	<0.000078	<0.0041	24	MNR	MNR
MWC-212	5/21/2008	46.60	210	7.30	381	0.07	<0.0023	<0.00042	5.4	0.0033	0.054	<0.0029	0.0081	<0.00016	<0.0030	22	MNR	MNR
MWC-212	5/20/2009	50.36	230	7.50	406	0.04	0.0015	<0.00006	6.4	<0.0025	0.022	<0.0001	0.0013	<0.00007	0.0003	25	MNR	MNR
MWC-212	9/4/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	0.0±0.4	NDA
MWB-205	11/9/2005	52.74		8.69	195	<0.10	<0.0050	<0.010	<5.0	<0.0020	<0.050	<0.0050	0.005	<0.00020	<0.0050	<5.0	MNR	MNR
MWB-205	1/6/2006	54.88	130	8.70	208	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA
MWB-205	4/18/2006	53.09	77	7.60	270	0.03	0.0034	<0.00043	4.2	<0.0023	<0.016	<0.0013	<0.00066	0.000078	<0.0041	1	MNR	MNR
MWB-205	4/24/2007	51.96	140	9.10	223	<0.026	<0.0034	<0.00043	4.8	<0.0023	<0.016	<0.0013	0.00066	<0.000078	<0.0041	0.31	MNR	MNR
MWB-205	5/21/2008	52.81	130	10.60	450	0.88	<0.0023	<0.00042	3.9	0.038	3.3	<0.0029	0.013	<0.00016	<0.0030	12	MNR	MNR
MWB-205	5/20/2009	55.46	99	9.20	164	0.06	<0.0005	<0.00006	4.6	<0.0025	0.022	0.0001	<0.0013	<0.00007	<0.0003	0.93	MNR	MNR
MWB-205	9/3/2009	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	NDA	0.0±0.5	NDA

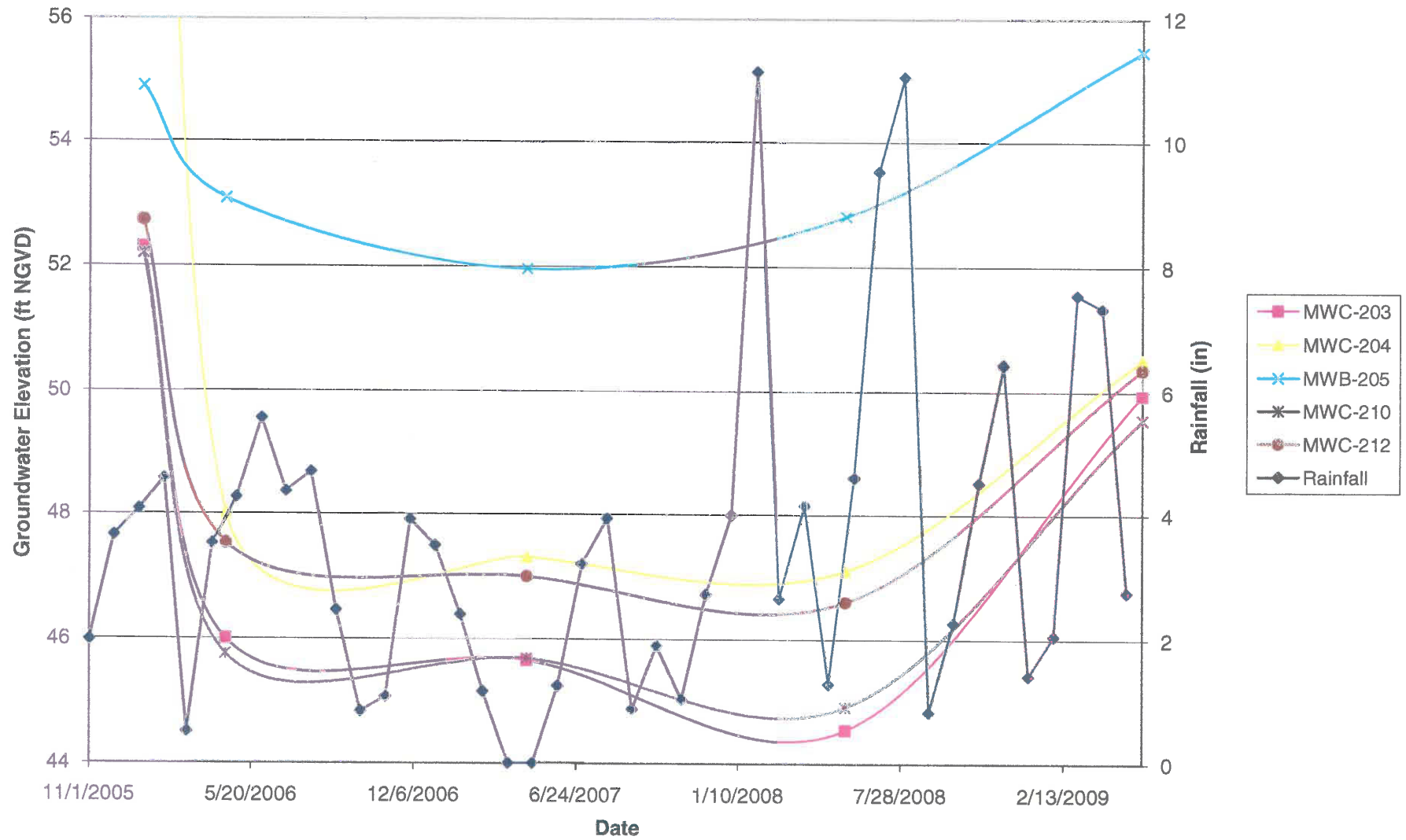
NDA: No Data Available MNR: Monitoring Not Required

*All laboratory results were reported in accordance with instructions on the Facility's Discharge Monitoring Report

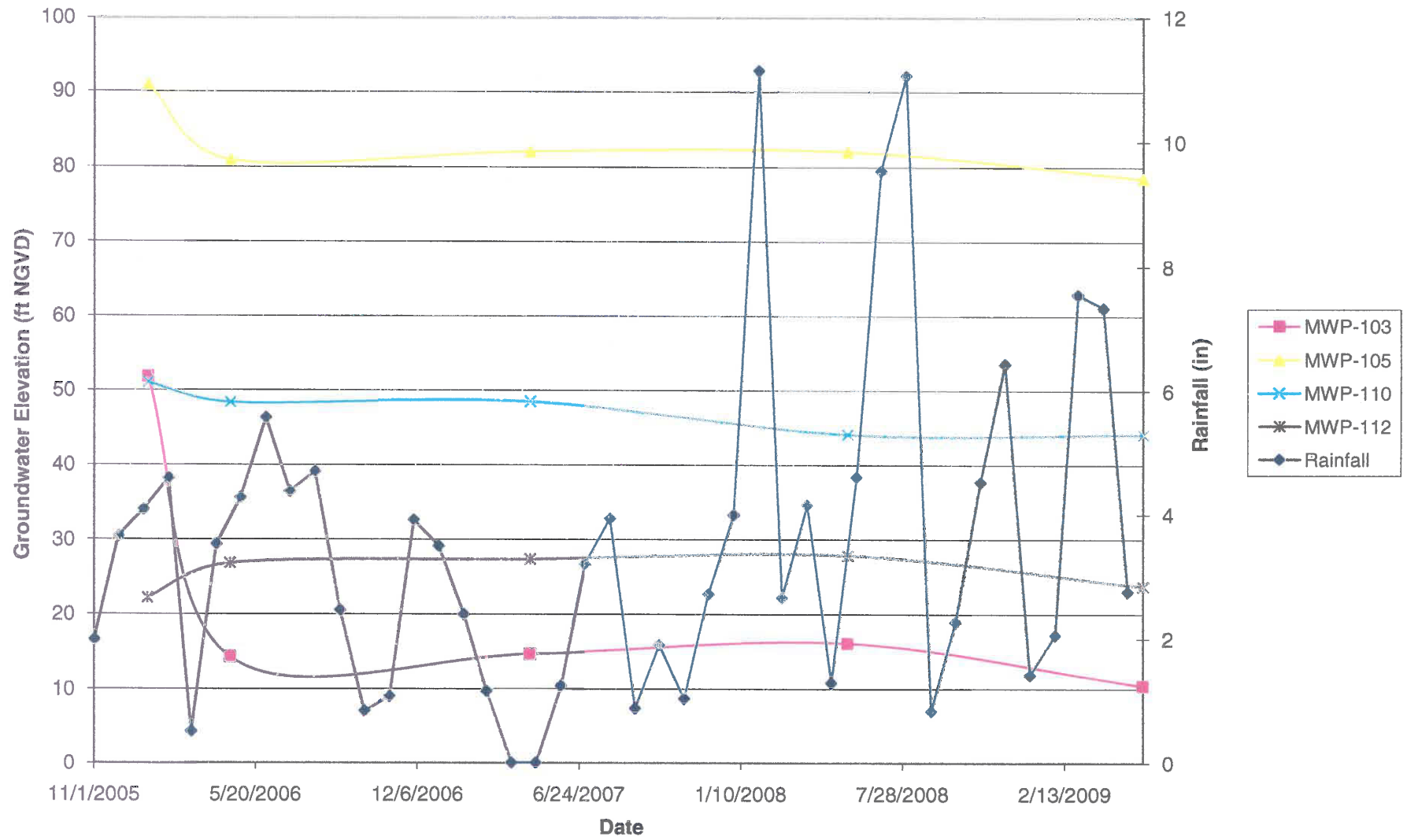
Unit 1 Hydrograph



Unit 2 Hydrograph (Part 1)



Unit 2 Hydrograph (Part 2)

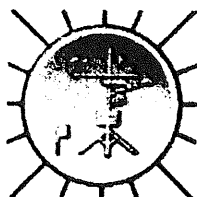
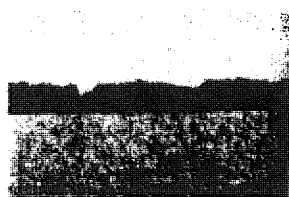


Scholz Plant Water Level Summary

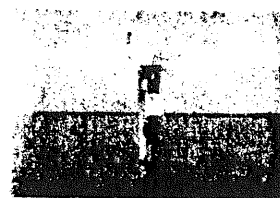
Table 4

Monitor	Aquifer		Depth	Water	Depth	Water	Depth	Water	Depth	Water	Depth	Water	Depth	Water
Well	Unit	TOC	Below TOC	Elevation	Below TOC	Elevation	Below TOC	Elevation	Below TOC	Elevation	Below TOC	Elevation	Below TOC	Elevation
	Monitored	Elevation	11/8/2005*	11/8/2005*	1/6/2006	1/6/2006	4/18/2006	4/18/2006	4/24/2007	4/24/2007	5/21/2008	5/21/2008	5/20/2009	5/20/2009
MWC-2031	Unit1	62.78	16.61	46.17	11.13	51.65	13.38	49.4	15.43	47.35	15.42	47.36	11.97	50.81
MWI-204	Unit1	107.89	9.83	98.06	8.5	99.39	10.23	97.66	10.02	97.87	9.51	98.38	9.91	97.98
MWI-210S	Unit 1	93.5	Dry	Dry	9.25	84.25	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MWB-2051	Unit 1	134.25	16.28	117.97	17.25	117	16.21	118.04	16.57	117.68	13.6	120.65	11.12	123.13
MWC-203	Unit 2	63.13	18.39	44.74	10.83	52.3	17.13	46	17.47	45.66	18.59	44.54	13.19	49.94
MWC-204	Unit 2	108.01	61.1	46.91	35.26	72.75	60	48.01	60.7	47.31	60.91	47.1	57.49	50.52
MWB-205	Unit 2	135.06	82.32	52.74	80.18	54.88	81.97	53.09	83.1	51.96	82.25	52.81	79.6	55.46
MWC-210	Unit 2	94.42	49.7	44.72	42.22	52.2	48.66	45.76	48.73	45.69	49.5	44.92	44.87	49.55
MWC-212	Unit 2	75.08	28.4	46.68	22.35	52.73	27.55	47.53	28.08	47	28.48	46.6	24.72	50.36
MWC-2	Unit 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MWP-103	Unit 2	59.7			7.92	51.78	14.26	45.44	14.62	45.08	16.02	43.68	10.37	49.33
MWP-105	Unit 2	133.2			79.13	54.07	80.94	52.26	82.07	51.13	81.32	51.88	78.52	54.68
MWP-110	Unit 2	93.2			42.19	51.01	48.36	44.84	48.43	44.77	49.62	43.58	44.09	49.11
MWP-112	Unit 2	75.2			22.15	53.05	26.81	48.39	27.34	47.86	27.85	47.35	23.7	51.5

* These water levels were recorded over the period from 11/7/2005 to 11/9/2005.



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Sneads Landing
Lake Seminole seminole.uslakes.info/
Marianna, Jackson County, FL

Historical Data

(Tmin, Tmax and Precipitation amount)

From - Jan	- 1	2005	Date	Max. Temp. (°F)	Min. Temp. (°F)	Rain (in)
To - Dec	- 31	2005				
Submit			Jan 1, 2005	79.7	53.4	0.00
			Jan 2, 2005	76.1	51.8	0.00
			Jan 3, 2005	71.4	52.3	0.00
			Jan 4, 2005	73.6	52.0	0.00
			Jan 5, 2005	74.3	49.8	0.00
			Jan 6, 2005	71.6	61.2	0.00
			Jan 7, 2005	72.5	57.7	0.01
			Jan 8, 2005	71.1	61.0	0.08
			Jan 9, 2005	64.9	57.9	0.00
			Jan 10, 2005	67.5	56.5	0.00
			Jan 11, 2005	72.3	54.0	0.00
			Jan 12, 2005	73.9	53.8	0.00
			Jan 13, 2005	70.7	55.9	2.43
			Jan 14, 2005	57.4	52.5	0.08
			Jan 15, 2005	54.7	46.6	0.00
			Jan 16, 2005	57.4	44.2	0.00
			Jan 17, 2005	47.3	31.5	0.00
			Jan 18, 2005	46.9	31.8	0.00
			Jan 19, 2005	58.8	33.1	0.00
			Jan 20, 2005	63.7	46.8	0.00
			Jan 21, 2005	72.5	45.1	0.00
			Jan 22, 2005	71.2	52.2	0.00

Jan 23, 2005	52.2	29.1	0.00
Jan 24, 2005	53.6	29.8	0.00
Jan 25, 2005	64.2	33.4	0.00
Jan 26, 2005	72.0	48.9	0.00
Jan 27, 2005	64.6	51.6	0.00
Jan 28, 2005	54.3	42.6	0.01
Jan 29, 2005	49.6	39.2	1.83
Jan 30, 2005	54.5	42.3	0.00
Jan 31, 2005	53.4	39.7	0.01
Feb 1, 2005	51.4	45.3	0.21
Feb 2, 2005	51.6	44.4	0.19
Feb 3, 2005	52.0	45.5	0.00
Feb 4, 2005	57.7	41.5	0.00
Feb 5, 2005	58.5	37.8	0.00
Feb 6, 2005	63.7	42.1	0.00
Feb 7, 2005	68.7	52.7	0.00
Feb 8, 2005	73.4	49.8	0.01
Feb 9, 2005	71.6	57.0	0.00
Feb 10, 2005	63.7	45.3	0.00
Feb 11, 2005	56.7	37.0	0.00
Feb 12, 2005	66.0	35.8	0.00
Feb 13, 2005	70.5	46.0	0.00
Feb 14, 2005	72.5	53.8	0.00
Feb 15, 2005	72.3	54.3	0.00
Feb 16, 2005	76.3	57.9	0.01
Feb 17, 2005	62.1	53.2	0.20
Feb 18, 2005	57.4	42.1	0.00
Feb 19, 2005	64.9	37.6	0.00
Feb 20, 2005	70.3	44.2	0.00
Feb 21, 2005	76.1	58.6	0.00
Feb 22, 2005	71.6	60.6	0.00
Feb 23, 2005	66.0	60.1	1.19
Feb 24, 2005	67.1	60.6	0.00
Feb 25, 2005	60.6	53.6	0.13
Feb 26, 2005	59.7	46.8	0.00

Feb 27, 2005	58.5	52.2	3.16
Feb 28, 2005	63.5	49.5	0.00
Mar 1, 2005	59.7	46.0	0.00
Mar 2, 2005	57.9	37.9	0.00
Mar 3, 2005	49.6	41.9	0.06
Mar 4, 2005	63.5	37.4	0.00
Mar 5, 2005	72.0	43.0	0.00
Mar 6, 2005	66.4	50.7	0.00
Mar 7, 2005	74.7	47.5	1.82
Mar 8, 2005	63.3	52.0	0.00
Mar 9, 2005	52.7	45.9	0.00
Mar 10, 2005	62.8	39.0	0.00
Mar 11, 2005	66.9	45.7	0.00
Mar 12, 2005	72.0	42.3	0.00
Mar 13, 2005	75.2	51.8	0.00
Mar 14, 2005	77.7	61.5	0.00
Mar 15, 2005	63.1	55.9	1.26
Mar 16, 2005	66.0	53.2	4.06
Mar 17, 2005	53.8	46.0	0.01
Mar 18, 2005	53.2	43.7	0.00
Mar 19, 2005	65.7	41.2	0.00
Mar 20, 2005	69.1	47.1	0.00
Mar 21, 2005	73.0	52.9	0.00
Mar 22, 2005	73.4	60.4	2.90
Mar 23, 2005	78.6	59.2	0.56
Mar 24, 2005	73.4	56.8	0.00
Mar 25, 2005	74.1	60.6	0.93
Mar 26, 2005	75.0	64.4	3.67
Mar 27, 2005	77.7	64.6	0.26
Mar 28, 2005	70.2	53.4	0.00
Mar 29, 2005	73.6	55.0	0.00
Mar 30, 2005	78.3	52.0	0.00
Mar 31, 2005	80.6	62.8	2.23
Apr 1, 2005	64.8	61.5	4.55
Apr 2, 2005	63.5	53.6	0.00

	72.0	46.6	0.00
Apr 4, 2005	77.0	49.5	0.00
Apr 5, 2005	78.3	52.5	0.00
Apr 6, 2005	75.9	57.7	0.06
Apr 7, 2005	75.4	62.1	2.64
Apr 8, 2005	70.7	59.4	0.00
Apr 9, 2005	75.0	56.5	0.00
Apr 10, 2005	75.9	60.6	0.00
Apr 11, 2005	75.2	59.9	0.00
Apr 12, 2005	70.0	60.4	0.76
Apr 13, 2005	73.9	58.8	0.16
Apr 14, 2005	64.4	55.4	0.00
Apr 15, 2005	71.6	50.7	0.00
Apr 16, 2005	68.9	54.7	0.00
Apr 17, 2005	72.5	49.1	0.00
Apr 18, 2005	81.0	49.8	0.00
Apr 19, 2005	77.5	53.8	0.00
Apr 20, 2005	78.4	56.3	0.00
Apr 21, 2005	81.5	57.4	0.00
Apr 22, 2005	80.4	59.7	0.07
Apr 23, 2005	69.3	57.9	0.52
Apr 24, 2005	64.9	51.1	0.00
Apr 25, 2005	68.5	45.7	0.00
Apr 26, 2005	70.9	58.3	0.31
Apr 27, 2005	77.2	59.0	0.00
Apr 28, 2005	75.4	56.1	0.00
Apr 29, 2005	80.2	55.8	0.00
Apr 30, 2005	74.1	63.0	3.22
May 1, 2005	71.2	59.2	0.02
May 2, 2005	73.9	57.0	0.00
May 3, 2005	75.2	59.2	0.00
May 4, 2005	74.3	58.6	0.43
May 5, 2005	67.5	61.3	1.22
May 6, 2005	74.5	57.7	0.00
May 7, 2005	77.5	57.0	0.00

	81.5	58.3	0.00
May 9, 2005	85.1	58.1	0.00
May 10, 2005	84.7	64.8	0.00
May 11, 2005	81.5	67.6	0.00
May 12, 2005	83.3	66.7	0.00
May 13, 2005	85.5	66.6	0.00
May 14, 2005	81.9	67.3	0.00
May 15, 2005	82.6	63.5	0.00
May 16, 2005	82.4	66.4	0.00
May 17, 2005	86.2	68.2	0.00
May 18, 2005	87.8	64.2	0.00
May 19, 2005	80.8	69.6	0.00
May 20, 2005	83.1	65.8	1.88
May 21, 2005	78.1	67.1	3.71
May 22, 2005	81.0	65.8	0.00
May 23, 2005	88.2	67.5	0.00
May 24, 2005	90.7	75.7	0.00
May 25, 2005	79.2	67.3	0.00
May 26, 2005	79.9	62.2	0.00
May 27, 2005	83.3	63.9	0.00
May 28, 2005	87.1	65.5	0.00
May 29, 2005	86.4	68.5	0.00
May 30, 2005	84.9	70.9	0.01
May 31, 2005	78.8	72.9	0.07
Jun 1, 2005	79.2	71.8	1.47
Jun 2, 2005	81.9	71.2	2.63
Jun 3, 2005	81.7	72.1	0.01
Jun 4, 2005	86.0	71.6	0.00
Jun 5, 2005	88.0	72.5	0.00
Jun 6, 2005	91.0	72.0	2.37
Jun 7, 2005	87.4	71.2	0.01
Jun 8, 2005	88.2	74.3	0.36
Jun 9, 2005	86.2	72.9	0.34
Jun 10, 2005	79.2	74.3	0.12
Jun 11, 2005	83.8	75.0	1.65

	86.0	77.2	0.06
Jun 13, 2005	88.3	74.3	0.03
Jun 14, 2005	90.7	74.5	0.01
Jun 15, 2005	92.8	76.1	0.00
Jun 16, 2005	89.8	75.0	0.00
Jun 17, 2005	88.5	70.3	0.00
Jun 18, 2005	82.9	73.6	0.00
Jun 19, 2005	86.0	70.9	0.00
Jun 20, 2005	83.7	71.6	0.00
Jun 21, 2005	85.5	70.9	0.00
Jun 22, 2005	88.2	71.8	0.00
Jun 23, 2005	89.6	72.9	0.00
Jun 24, 2005	87.1	71.4	0.00
Jun 25, 2005	82.4	69.6	0.00
Jun 26, 2005	83.3	72.1	0.00
Jun 27, 2005	87.6	73.0	0.00
Jun 28, 2005	81.0	75.0	0.00
Jun 29, 2005	86.0	74.8	0.00
Jun 30, 2005	86.0	73.8	0.00
Jul 1, 2005	90.5	74.1	0.00
Jul 2, 2005	88.5	75.9	0.00
Jul 3, 2005	88.2	75.4	0.00
Jul 4, 2005	87.3	76.5	0.00
Jul 5, 2005	89.8	76.1	0.00
Jul 6, 2005	86.7	76.8	0.00
Jul 7, 2005	85.1	73.9	0.00
Jul 8, 2005	91.2	73.9	0.00
Jul 9, 2005	84.7	71.8	0.00
Jul 10, 2005	81.5	73.9	0.04
Jul 11, 2005	86.0	77.0	0.00
Jul 12, 2005	89.8	77.9	0.00
Jul 13, 2005	89.6	75.9	0.00
Jul 14, 2005	90.9	75.0	0.00
Jul 15, 2005	86.4	74.8	0.00
Jul 16, 2005	87.6	74.7	0.00

	90.7	75.2	0.00
Jul 18, 2005	92.7	76.6	0.00
Jul 19, 2005	90.5	77.2	0.00
Jul 20, 2005	89.6	76.5	0.00
Jul 21, 2005	93.7	75.7	0.00
Jul 22, 2005	93.0	75.2	0.00
Jul 23, 2005	87.8	74.7	0.00
Jul 24, 2005	91.2	74.8	0.00
Jul 25, 2005	89.1	78.4	0.01
Jul 26, 2005	96.4	76.6	0.00
Jul 27, 2005	93.2	76.3	0.00
Jul 28, 2005	94.5	76.6	0.00
Jul 29, 2005	92.1	75.6	0.00
Jul 30, 2005	83.5	73.8	0.00
Jul 31, 2005	81.1	75.2	0.00
Aug 1, 2005	83.7	74.1	0.00
Aug 2, 2005	80.6	74.5	0.00
Aug 3, 2005	83.1	75.9	0.00
Aug 4, 2005	83.3	72.1	0.01
Aug 5, 2005	81.9	72.1	0.00
Aug 6, 2005	81.9	72.1	0.00
Aug 7, 2005	84.7	73.8	0.02
Aug 8, 2005	88.0	74.7	0.02
Aug 9, 2005	93.2	75.4	0.01
Aug 10, 2005	87.3	75.9	0.01
Aug 11, 2005	88.9	74.3	0.01
Aug 12, 2005	89.8	73.6	0.00
Aug 13, 2005	90.7	75.7	0.00
Aug 14, 2005	91.0	74.7	0.00
Aug 15, 2005	93.6	74.3	0.00
Aug 16, 2005	91.6	73.4	0.00
Aug 17, 2005	91.8	76.6	0.00
Aug 18, 2005	91.4	76.3	0.00
Aug 19, 2005	94.5	76.8	0.00
Aug 20, 2005	95.5	78.8	0.03

	97.2	77.0	0.00
Aug 22, 2005	92.8	74.1	0.03
Aug 23, 2005	87.6	75.6	0.01
Aug 24, 2005	92.7	76.1	0.00
Aug 25, 2005	88.5	79.2	0.00
Aug 26, 2005	85.8	74.7	0.00
Aug 27, 2005	88.0	74.7	0.00
Aug 28, 2005	87.3	77.9	0.00
Aug 29, 2005	85.5	78.3	0.00
Aug 30, 2005	88.0	78.4	0.00
Aug 31, 2005	86.7	75.6	0.00
Sep 1, 2005	91.2	75.9	0.00
Sep 2, 2005	89.1	66.6	0.00
Sep 3, 2005	89.2	64.2	0.00
Sep 4, 2005	88.5	64.8	0.00
Sep 5, 2005	85.5	67.3	0.00
Sep 6, 2005	86.9	64.2	0.00
Sep 7, 2005	86.2	66.6	0.00
Sep 8, 2005	87.8	68.0	0.00
Sep 9, 2005	87.3	63.1	0.00
Sep 10, 2005	88.0	58.3	0.00
Sep 11, 2005	86.9	57.6	0.00
Sep 12, 2005	87.6	71.2	0.00
Sep 13, 2005	91.2	67.8	0.00
Sep 14, 2005	90.1	71.8	0.00
Sep 15, 2005	98.2	69.1	0.00
Sep 16, 2005	98.1	73.4	0.00
Sep 17, 2005	97.0	73.4	0.00
Sep 18, 2005	99.7	75.4	0.00
Sep 19, 2005	95.4	78.1	0.00
Sep 20, 2005	89.1	76.1	0.00
Sep 21, 2005	87.6	73.6	0.00
Sep 22, 2005	85.5	73.2	0.00
Sep 23, 2005	86.7	74.7	0.05
Sep 24, 2005	86.5	75.7	0.00

	86.5	73.8	0.00
Sep 26, 2005	82.4	72.3	0.00
Sep 27, 2005	76.1	72.3	0.00
Sep 28, 2005	85.8	73.0	0.00
Sep 29, 2005	90.5	72.5	0.00
Sep 30, 2005	91.6	72.9	0.00
Oct 1, 2005	84.2	74.1	0.00
Oct 2, 2005	85.5	75.0	0.00
Oct 3, 2005	84.2	75.6	0.00
Oct 4, 2005	84.6	74.5	0.00
Oct 5, 2005	78.8	72.7	0.00
Oct 6, 2005	78.8	72.3	0.68
Oct 7, 2005	86.0	74.5	0.00
Oct 8, 2005	76.8	65.3	0.00
Oct 9, 2005	75.9	66.4	0.00
Oct 10, 2005	83.7	63.5	0.00
Oct 11, 2005	81.0	68.4	0.00
Oct 12, 2005	80.2	68.0	0.00
Oct 13, 2005	78.4	67.1	0.00
Oct 14, 2005	84.6	65.7	0.00
Oct 15, 2005	82.6	63.3	0.00
Oct 16, 2005	84.9	59.2	0.00
Oct 17, 2005	86.0	58.8	0.00
Oct 18, 2005	91.9	59.2	0.00
Oct 19, 2005	94.3	57.6	0.00
Oct 20, 2005	86.7	60.3	0.00
Oct 21, 2005	88.2	69.4	0.00
Oct 22, 2005	81.3	63.0	0.00
Oct 23, 2005	71.6	57.2	0.00
Oct 24, 2005	64.9	52.2	0.00
Oct 25, 2005	61.7	44.4	0.00
Oct 26, 2005	70.9	42.8	0.00
Oct 27, 2005	68.9	44.6	0.00
Oct 28, 2005	71.1	50.5	0.00
Oct 29, 2005	68.0	51.4	0.00

	69.1	50.4	0.00
Oct 31, 2005	77.5	52.0	0.00
Nov 1, 2005	73.8	57.6	0.29
Nov 2, 2005	74.8	57.4	0.00
Nov 3, 2005	74.1	57.4	0.00
Nov 4, 2005	78.3	55.2	0.00
Nov 5, 2005	77.5	56.5	0.00
Nov 6, 2005	77.2	61.5	0.01
Nov 7, 2005	77.7	62.4	0.00
Nov 8, 2005	84.6	59.5	0.00
Nov 9, 2005	82.8	58.8	0.00
Nov 10, 2005	76.3	56.8	0.00
Nov 11, 2005	73.6	49.8	0.00
Nov 12, 2005	73.2	56.7	0.00
Nov 13, 2005	76.6	61.7	0.00
Nov 14, 2005	82.8	58.3	0.00
Nov 15, 2005	79.7	62.2	0.00
Nov 16, 2005	74.5	52.5	0.00
Nov 17, 2005	58.1	42.4	0.00
Nov 18, 2005	59.0	39.2	0.00
Nov 19, 2005	67.5	41.2	0.00
Nov 20, 2005	66.9	57.2	0.01
Nov 21, 2005	60.4	48.0	0.00
Nov 22, 2005	61.5	45.5	0.00
Nov 23, 2005	62.4	39.2	0.00
Nov 24, 2005	77.4	52.5	0.00
Nov 25, 2005	75.4	53.4	0.00
Nov 26, 2005	70.0	55.2	0.00
Nov 27, 2005	68.4	60.8	0.00
Nov 28, 2005	70.7	65.3	1.46
Nov 29, 2005	69.1	52.5	0.21
Nov 30, 2005	60.3	44.2	0.00
Dec 1, 2005	66.2	39.9	0.00
Dec 2, 2005	61.5	40.5	0.00
Dec 3, 2005	64.4	39.2	0.02

	77.0	63.3	0.00
Dec 5, 2005	71.6	47.1	0.86
Dec 6, 2005	55.8	37.8	0.00
Dec 7, 2005	53.8	46.0	0.03
Dec 8, 2005	60.8	52.2	0.36
Dec 9, 2005	58.5	45.5	0.01
Dec 10, 2005	63.7	40.3	0.00
Dec 11, 2005	58.6	42.4	0.00
Dec 12, 2005	62.6	37.9	0.00
Dec 13, 2005	57.0	39.2	0.00
Dec 14, 2005	61.2	43.9	0.00
Dec 15, 2005	70.7	48.9	0.67
Dec 16, 2005	56.8	37.8	0.00
Dec 17, 2005	48.7	45.0	0.69
Dec 18, 2005	53.1	45.7	0.38
Dec 19, 2005	55.8	42.4	0.00
Dec 20, 2005	53.2	38.1	0.00
Dec 21, 2005	52.5	36.1	0.00
Dec 22, 2005	55.8	32.4	0.00
Dec 23, 2005	57.7	30.9	0.00
Dec 24, 2005	63.7	34.7	0.08
Dec 25, 2005	63.7	48.4	0.50
Dec 26, 2005	58.6	41.0	0.00
Dec 27, 2005	66.2	35.4	0.00
Dec 28, 2005	71.4	51.1	0.07
Dec 29, 2005	64.0	46.0	0.00
Dec 30, 2005	68.2	41.5	0.00
Dec 31, 2005	73.2	55.8	0.00

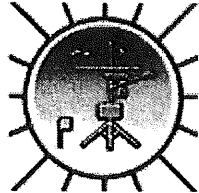
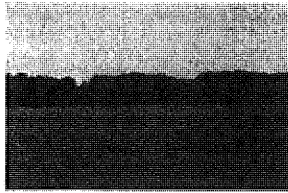
Data requested on Monday July 20 2009 at 4:47:16 PM.

For Automated Environmental Monitoring Network information
or for comments or suggestions, please contact Gerrit Hoogenboom

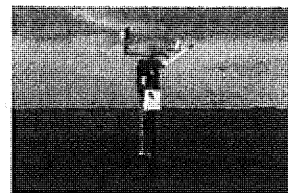
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**Georgia Automated
Environmental
Monitoring Network**
www.GeorgiaWeather.net



Sneads Landing
Lake Seminole seminole.uslakes.info/
Marianna, Jackson County, FL

Historical Data

(Tmin,Tmax and Precipitation amount)

From - Jan - 1 2006

To - Dec - 31 2006

Submit

Date	Max. Temp. (°F)	Min. Temp. (°F)	Rain (in)
Jan 1, 2006	70.2	55.2	1.47
Jan 2, 2006	73.2	60.8	1.28
Jan 3, 2006	67.3	53.4	0.00
Jan 4, 2006	70.2	45.5	0.00
Jan 5, 2006	71.6	50.7	0.00
Jan 6, 2006	50.7	41.2	0.00
Jan 7, 2006	53.4	32.7	0.00
Jan 8, 2006	68.2	37.4	0.00
Jan 9, 2006	70.9	54.7	0.00
Jan 10, 2006	70.3	49.1	0.00
Jan 11, 2006	74.5	56.8	0.01
Jan 12, 2006	73.0	58.6	0.00
Jan 13, 2006	71.8	51.1	0.01
Jan 14, 2006	55.2	42.3	0.00
Jan 15, 2006	57.2	38.3	0.00
Jan 16, 2006	69.3	46.9	0.00
Jan 17, 2006	70.2	52.3	0.64
Jan 18, 2006	58.5	39.2	0.00
Jan 19, 2006	61.5	34.5	0.00
Jan 20, 2006	66.4	43.5	0.00
Jan 21, 2006	73.6	57.6	0.00
Jan 22, 2006	73.0	56.3	0.00

Jan 23, 2006	75.6	58.6	0.03
Jan 24, 2006	66.9	54.3	0.00
Jan 25, 2006	61.0	47.7	0.00
Jan 26, 2006	62.4	40.6	0.00
Jan 27, 2006	61.7	46.8	0.00
Jan 28, 2006	67.5	49.3	0.00
Jan 29, 2006	66.4	55.8	0.42
Jan 30, 2006	70.9	54.1	0.22
Jan 31, 2006	61.5	42.1	0.00
Feb 1, 2006	64.0	37.2	0.00
Feb 2, 2006	65.1	48.9	1.45
Feb 3, 2006	70.0	57.6	0.00
Feb 4, 2006	64.2	46.8	0.00
Feb 5, 2006	58.5	38.3	0.00
Feb 6, 2006	68.7	36.3	0.04
Feb 7, 2006	62.6	46.9	0.46
Feb 8, 2006	60.3	36.0	0.00
Feb 9, 2006	53.4	39.2	0.00
Feb 10, 2006	61.3	34.0	0.00
Feb 11, 2006	60.6	42.4	1.18
Feb 12, 2006	45.1	33.3	0.00
Feb 13, 2006	50.4	30.7	0.00
Feb 14, 2006	61.0	30.2	0.00
Feb 15, 2006	66.6	46.9	0.00
Feb 16, 2006	71.8	48.6	0.00
Feb 17, 2006	73.2	47.1	0.00
Feb 18, 2006	75.9	47.5	0.05
Feb 19, 2006	50.7	42.4	0.00
Feb 20, 2006	59.4	48.7	0.02
Feb 21, 2006	60.6	56.1	0.12
Feb 22, 2006	74.5	57.4	0.00
Feb 23, 2006	69.1	56.1	0.54
Feb 24, 2006	64.6	50.2	0.00
Feb 25, 2006	70.5	53.6	0.72
Feb 26, 2006	60.4	47.3	0.00

Feb 27, 2006	60.1	39.9	0.00
Feb 28, 2006	70.9	39.7	0.00
Mar 1, 2006	75.0	48.4	0.00
Mar 2, 2006	77.7	58.1	0.00
Mar 3, 2006	70.5	56.7	0.00
Mar 4, 2006	64.0	45.5	0.00
Mar 5, 2006	72.9	42.4	0.00
Mar 6, 2006	75.9	49.8	0.00
Mar 7, 2006	63.9	49.5	0.00
Mar 8, 2006	69.1	44.2	0.00
Mar 9, 2006	69.6	47.8	0.00
Mar 10, 2006	77.0	66.7	0.00
Mar 11, 2006	79.7	63.0	0.00
Mar 12, 2006	79.3	62.1	0.00
Mar 13, 2006	79.9	61.5	0.00
Mar 14, 2006	72.1	57.7	0.13
Mar 15, 2006	72.0	48.6	0.00
Mar 16, 2006	68.5	41.7	0.00
Mar 17, 2006	77.2	57.2	0.00
Mar 18, 2006	71.4	52.2	0.00
Mar 19, 2006	69.8	52.0	0.00
Mar 20, 2006	78.4	55.4	0.00
Mar 21, 2006	81.5	60.4	0.16
Mar 22, 2006	65.8	51.3	0.00
Mar 23, 2006	57.4	50.7	0.21
Mar 24, 2006	59.2	43.9	0.01
Mar 25, 2006	61.7	38.8	0.00
Mar 26, 2006	60.8	42.8	0.00
Mar 27, 2006	66.2	39.4	0.00
Mar 28, 2006	73.4	43.0	0.00
Mar 29, 2006	72.0	53.2	0.00
Mar 30, 2006	78.4	54.1	0.00
Mar 31, 2006	78.6	57.6	0.00
Apr 1, 2006	82.0	58.5	0.00
Apr 2, 2006	83.3	66.7	0.00

	84.2	65.8	0.00
Apr 4, 2006	76.6	55.4	0.00
Apr 5, 2006	79.0	51.3	0.00
Apr 6, 2006	83.1	51.8	0.00
Apr 7, 2006	80.2	55.9	0.00
Apr 8, 2006	80.8	64.4	0.00
Apr 9, 2006	68.4	54.9	0.00
Apr 10, 2006	71.8	55.8	0.00
Apr 11, 2006	73.8	57.4	0.00
Apr 12, 2006	76.8	61.2	0.00
Apr 13, 2006	83.8	59.9	0.00
Apr 14, 2006	82.2	58.1	0.00
Apr 15, 2006	84.0	60.3	0.00
Apr 16, 2006	81.1	59.2	0.00
Apr 17, 2006	84.9	67.6	0.00
Apr 18, 2006	87.3	68.5	2.16
Apr 19, 2006	84.4	68.4	0.00
Apr 20, 2006	86.4	69.6	0.00
Apr 21, 2006	86.7	66.4	0.00
Apr 22, 2006	81.9	65.7	0.72
Apr 23, 2006	83.8	63.9	0.00
Apr 24, 2006	86.0	63.3	0.00
Apr 25, 2006	84.0	67.8	0.00
Apr 26, 2006	79.0	68.0	0.64
Apr 27, 2006	74.7	62.1	0.00
Apr 28, 2006	78.4	61.3	0.00
Apr 29, 2006	75.6	61.5	0.00
Apr 30, 2006	74.8	62.2	0.00
May 1, 2006	75.0	61.3	0.00
May 2, 2006	79.9	55.9	0.00
May 3, 2006	86.7	60.4	0.00
May 4, 2006	84.2	71.2	0.00
May 5, 2006	79.9	67.8	0.50
May 6, 2006	82.9	65.5	0.01
May 7, 2006	81.0	67.3	0.93

	81.5	67.3	0.70
May 9, 2006	81.7	64.0	0.46
May 10, 2006	82.2	66.7	0.69
May 11, 2006	76.3	65.1	0.26
May 12, 2006	76.8	57.4	0.00
May 13, 2006	79.3	56.8	0.00
May 14, 2006	83.3	62.2	0.00
May 15, 2006	79.9	63.5	0.59
May 16, 2006	73.4	58.3	0.01
May 17, 2006	75.7	59.0	0.00
May 18, 2006	82.2	57.6	0.00
May 19, 2006	86.2	66.0	0.00
May 20, 2006	90.1	69.6	0.00
May 21, 2006	89.6	69.3	0.00
May 22, 2006	88.5	64.2	0.00
May 23, 2006	88.2	70.0	0.00
May 24, 2006	92.7	70.3	0.00
May 25, 2006	86.2	71.6	0.00
May 26, 2006	88.3	69.1	0.00
May 27, 2006	90.0	70.2	0.00
May 28, 2006	94.6	71.8	0.11
May 29, 2006	87.8	72.0	0.01
May 30, 2006	89.4	71.6	0.00
May 31, 2006	87.1	71.2	0.00
Jun 1, 2006	89.6	74.3	0.69
Jun 2, 2006	89.2	72.5	0.01
Jun 3, 2006	86.0	71.8	0.00
Jun 4, 2006	89.1	70.5	0.00
Jun 5, 2006	87.3	66.7	0.00
Jun 6, 2006	86.9	68.4	0.00
Jun 7, 2006	85.1	63.7	0.00
Jun 8, 2006	91.4	67.8	0.00
Jun 9, 2006	92.3	71.8	0.00
Jun 10, 2006	92.7	67.5	0.00
Jun 11, 2006	89.1	72.0	0.00

	80.4	74.1	0.11
Jun 13, 2006	76.5	71.2	0.86
Jun 14, 2006	88.3	70.5	0.00
Jun 15, 2006	90.1	73.2	0.00
Jun 16, 2006	87.8	75.9	0.00
Jun 17, 2006	86.2	72.1	0.00
Jun 18, 2006	85.8	70.2	0.00
Jun 19, 2006	91.4	70.5	0.00
Jun 20, 2006	93.9	70.7	0.00
Jun 21, 2006	94.6	73.4	0.00
Jun 22, 2006	93.0	74.5	0.07
Jun 23, 2006	92.5	73.2	0.00
Jun 24, 2006	92.8	76.5	0.00
Jun 25, 2006	94.8	73.2	1.93
Jun 26, 2006	89.4	72.7	0.03
Jun 27, 2006	89.8	73.6	1.86
Jun 28, 2006	89.4	72.5	0.00
Jun 29, 2006	91.0	73.2	0.00
Jun 30, 2006	92.1	74.5	0.00
Jul 1, 2006	94.1	72.3	0.00
Jul 2, 2006	90.5	76.6	0.00
Jul 3, 2006	91.8	76.1	0.00
Jul 4, 2006	92.8	74.1	0.00
Jul 5, 2006	91.9	74.7	0.00
Jul 6, 2006	91.2	73.6	0.29
Jul 7, 2006	84.4	76.3	0.07
Jul 8, 2006	86.2	73.8	0.00
Jul 9, 2006	88.5	69.6	0.00
Jul 10, 2006	90.5	70.7	0.00
Jul 11, 2006	91.8	72.0	0.00
Jul 12, 2006	90.0	75.4	0.00
Jul 13, 2006	90.1	75.7	0.14
Jul 14, 2006	91.4	75.7	0.00
Jul 15, 2006	93.2	74.8	0.00
Jul 16, 2006	89.1	76.3	0.01

	88.9	73.9	0.15
Jul 18, 2006	91.9	75.6	0.60
Jul 19, 2006	93.7	74.3	1.14
Jul 20, 2006	92.3	75.9	0.01
Jul 21, 2006	99.5	73.2	0.00
Jul 22, 2006	92.1	75.0	0.17
Jul 23, 2006	86.5	74.3	0.10
Jul 24, 2006	86.0	73.8	0.25
Jul 25, 2006	87.1	73.8	0.00
Jul 26, 2006	91.2	76.3	0.01
Jul 27, 2006	95.9	75.2	0.00
Jul 28, 2006	97.5	73.6	0.00
Jul 29, 2006	90.0	75.4	1.18
Jul 30, 2006	85.5	71.2	0.25
Jul 31, 2006	86.9	72.0	0.00
Aug 1, 2006	89.1	75.0	0.00
Aug 2, 2006	91.2	76.1	0.00
Aug 3, 2006	92.7	77.2	0.01
Aug 4, 2006	91.4	73.9	1.82
Aug 5, 2006	91.2	71.2	0.00
Aug 6, 2006	91.2	75.4	0.00
Aug 7, 2006	94.5	77.9	0.65
Aug 8, 2006	93.9	72.9	0.22
Aug 9, 2006	90.9	71.6	0.01
Aug 10, 2006	91.9	76.6	0.00
Aug 11, 2006	94.1	75.0	0.00
Aug 12, 2006	93.7	76.5	0.00
Aug 13, 2006	86.2	77.4	0.37
Aug 14, 2006	89.4	76.5	0.01
Aug 15, 2006	95.0	75.9	0.00
Aug 16, 2006	94.1	76.8	0.41
Aug 17, 2006	89.8	77.4	0.00
Aug 18, 2006	90.1	78.8	0.00
Aug 19, 2006	90.0	75.9	0.00
Aug 20, 2006	97.9	74.5	0.00

	94.3	74.8	1.03
Aug 22, 2006	90.5	74.5	0.01
Aug 23, 2006	90.0	74.7	0.00
Aug 24, 2006	86.5	74.5	0.04
Aug 25, 2006	87.4	74.5	0.08
Aug 26, 2006	94.3	73.4	0.01
Aug 27, 2006	91.2	79.0	0.00
Aug 28, 2006	93.7	78.8	0.00
Aug 29, 2006	93.4	77.0	0.01
Aug 30, 2006	91.2	77.2	0.01
Aug 31, 2006	93.4	74.1	0.00
Sep 1, 2006	89.8	74.5	0.00
Sep 2, 2006	92.7	72.9	0.00
Sep 3, 2006	91.9	72.0	0.00
Sep 4, 2006	90.0	71.4	0.00
Sep 5, 2006	85.6	73.4	0.00
Sep 6, 2006	86.5	74.8	0.01
Sep 7, 2006	80.8	70.7	0.87
Sep 8, 2006	87.1	71.1	0.00
Sep 9, 2006	82.4	72.9	0.23
Sep 10, 2006	81.7	72.5	0.15
Sep 11, 2006	82.8	73.4	0.00
Sep 12, 2006	81.1	72.5	0.00
Sep 13, 2006	93.7	73.6	0.66
Sep 14, 2006	88.2	72.1	0.00
Sep 15, 2006	88.5	73.8	0.00
Sep 16, 2006	95.4	73.4	0.00
Sep 17, 2006	87.8	69.4	0.01
Sep 18, 2006	83.7	74.3	0.48
Sep 19, 2006	80.8	71.8	0.02
Sep 20, 2006	81.9	66.2	0.00
Sep 21, 2006	82.8	65.8	0.00
Sep 22, 2006	84.9	69.1	0.01
Sep 23, 2006	87.4	75.7	0.00
Sep 24, 2006	87.4	73.6	0.00

	87.8	71.6	0.01
Sep 26, 2006	84.2	66.0	0.01
Sep 27, 2006	79.5	63.9	0.00
Sep 28, 2006	84.2	62.1	0.00
Sep 29, 2006	89.2	59.7	0.00
Sep 30, 2006	83.1	55.9	0.00
Oct 1, 2006	92.8	59.0	0.00
Oct 2, 2006	87.3	69.3	0.00
Oct 3, 2006	88.9	72.0	0.00
Oct 4, 2006	84.7	67.1	0.00
Oct 5, 2006	95.0	65.7	0.00
Oct 6, 2006	88.0	65.3	0.00
Oct 7, 2006	77.5	64.4	0.00
Oct 8, 2006	76.6	59.9	0.00
Oct 9, 2006	76.1	59.0	0.00
Oct 10, 2006	89.6	61.5	0.00
Oct 11, 2006	81.5	64.4	0.00
Oct 12, 2006	82.0	63.3	0.00
Oct 13, 2006	74.3	60.4	0.02
Oct 14, 2006	73.8	55.0	0.00
Oct 15, 2006	75.4	51.1	0.00
Oct 16, 2006	73.0	64.8	0.00
Oct 17, 2006	80.8	70.2	0.60
Oct 18, 2006	87.4	71.6	0.10
Oct 19, 2006	87.3	68.0	0.04
Oct 20, 2006	77.7	63.1	0.01
Oct 21, 2006	77.0	57.4	0.00
Oct 22, 2006	80.6	65.1	0.02
Oct 23, 2006	65.3	47.8	0.00
Oct 24, 2006	70.3	42.4	0.01
Oct 25, 2006	64.6	49.8	0.00
Oct 26, 2006	64.6	55.9	0.01
Oct 27, 2006	75.0	63.3	0.01
Oct 28, 2006	69.4	55.9	0.00
Oct 29, 2006	70.7	48.0	0.01

	73.6	47.7	0.00
Oct 31, 2006	78.1	52.9	0.01
Nov 1, 2006	83.3	56.8	0.01
Nov 2, 2006	66.0	53.6	0.01
Nov 3, 2006	61.5	45.5	0.00
Nov 4, 2006	65.5	44.6	0.00
Nov 5, 2006	68.2	50.7	0.00
Nov 6, 2006	69.8	57.6	0.00
Nov 7, 2006	73.0	60.3	0.84
Nov 8, 2006	72.3	53.2	0.02
Nov 9, 2006	81.0	51.1	0.02
Nov 10, 2006	74.1	54.0	0.01
Nov 11, 2006	77.7	54.1	0.01
Nov 12, 2006	65.1	46.6	0.01
Nov 13, 2006	65.5	44.6	0.00
Nov 14, 2006	68.2	46.2	0.01
Nov 15, 2006	75.6	59.9	0.01
Nov 16, 2006	67.6	49.5	0.01
Nov 17, 2006	60.4	43.3	0.09
Nov 18, 2006	68.2	42.6	0.00
Nov 19, 2006	57.7	45.9	0.00
Nov 20, 2006	52.2	38.1	0.00
Nov 21, 2006	54.7	41.4	0.00
Nov 22, 2006	61.3	39.0	0.00
Nov 23, 2006	67.6	45.7	0.00
Nov 24, 2006	73.0	41.7	0.00
Nov 25, 2006	68.2	48.0	0.00
Nov 26, 2006	68.5	49.3	0.00
Nov 27, 2006	70.5	53.6	0.02
Nov 28, 2006	73.9	61.7	0.00
Nov 29, 2006	76.3	63.0	0.00
Nov 30, 2006	76.8	66.6	0.01
Dec 1, 2006	73.6	49.5	1.00
Dec 2, 2006	67.8	42.4	0.00
Dec 3, 2006	65.3	50.9	0.00

	57.2	42.4	0.00
Dec 5, 2006	61.3	34.3	0.00
Dec 6, 2006	67.6	36.9	0.00
Dec 7, 2006	59.4	42.6	0.00
Dec 8, 2006	44.4	29.3	0.00
Dec 9, 2006	53.1	32.0	0.00
Dec 10, 2006	66.2	40.8	0.00
Dec 11, 2006	72.0	52.0	0.00
Dec 12, 2006	67.6	57.4	0.00
Dec 13, 2006	70.9	56.7	0.00
Dec 14, 2006	72.9	57.6	0.00
Dec 15, 2006	73.8	49.1	0.00
Dec 16, 2006	82.0	45.9	0.00
Dec 17, 2006	74.7	46.6	0.00
Dec 18, 2006	83.7	54.5	0.00
Dec 19, 2006	72.9	52.2	0.00
Dec 20, 2006	72.5	54.3	0.00
Dec 21, 2006	72.5	60.6	0.11
Dec 22, 2006	70.2	63.0	1.75
Dec 23, 2006	76.1	55.4	0.00
Dec 24, 2006	61.5	55.0	0.57
Dec 25, 2006	70.0	53.8	0.45
Dec 26, 2006	53.8	43.5	0.01
Dec 27, 2006	60.1	41.0	0.00
Dec 28, 2006	67.5	37.9	0.01
Dec 29, 2006	67.6	52.9	0.00
Dec 30, 2006	73.4	58.6	0.00
Dec 31, 2006	71.8	63.5	0.01

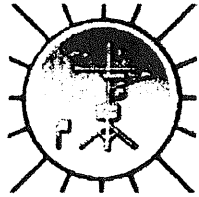
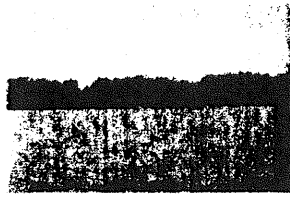
Data requested on Monday July 20 2009 at 4:47:51 PM.

For Automated Environmental Monitoring Network information
or for comments or suggestions, please contact Gerrit Hoogenboom

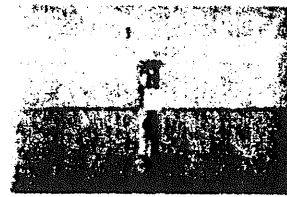
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**Georgia Automated
Environmental
Monitoring Network**
www.GeorgiaWeather.net



Sneads Landing
Lake Seminole seminole.uslakes.info/
Marianna, Jackson County, FL

Historical Data

(Tmin,Tmax and Precipitation amount)

From - Jan - 1 2007

To - Dec - 31 2007

Date	Max. Temp. (°F)	Min. Temp. (°F)	Rain (in)
Jan 1, 2007	69.4	50.4	0.00
Jan 2, 2007	52.0	42.1	0.00
Jan 3, 2007	58.3	47.8	0.00
Jan 4, 2007	67.1	56.3	0.03
Jan 5, 2007	72.0	59.2	1.13
Jan 6, 2007	65.5	55.8	0.03
Jan 7, 2007	77.4	62.8	0.91
Jan 8, 2007	70.9	49.8	0.17
Jan 9, 2007	64.4	43.9	0.00
Jan 10, 2007	53.4	40.8	0.00
Jan 11, 2007	66.4	43.3	0.01
Jan 12, 2007	70.3	54.1	0.00
Jan 13, 2007	73.0	54.0	0.00
Jan 14, 2007	73.6	54.9	0.00
Jan 15, 2007	73.0	58.3	0.00
Jan 16, 2007	65.7	45.1	0.06
Jan 17, 2007	54.3	43.0	0.00
Jan 18, 2007	49.6	43.2	0.00
Jan 19, 2007	55.0	48.0	0.02
Jan 20, 2007	57.4	45.5	0.00
Jan 21, 2007	67.5	50.5	0.34
Jan 22, 2007	67.6	50.7	0.26

Jan 23, 2007	50.9	46.4	0.01
Jan 24, 2007	49.8	44.6	0.00
Jan 25, 2007	58.1	44.4	0.02
Jan 26, 2007	63.7	37.9	0.00
Jan 27, 2007	56.7	35.8	0.40
Jan 28, 2007	56.5	39.7	0.10
Jan 29, 2007	47.3	31.1	0.00
Jan 30, 2007	53.4	31.6	0.00
Jan 31, 2007	58.1	40.5	0.00
Feb 1, 2007	68.0	51.4	1.75
Feb 2, 2007	54.3	46.8	0.00
Feb 3, 2007	46.9	37.0	0.00
Feb 4, 2007	53.2	39.7	0.00
Feb 5, 2007	55.4	38.3	0.00
Feb 6, 2007	56.8	34.9	0.00
Feb 7, 2007	69.3	37.9	0.00
Feb 8, 2007	67.6	48.0	0.00
Feb 9, 2007	64.4	46.9	0.00
Feb 10, 2007	57.2	41.9	0.00
Feb 11, 2007	61.7	39.6	0.00
Feb 12, 2007	70.3	45.1	0.00
Feb 13, 2007	66.9	52.9	0.49
Feb 14, 2007	63.1	37.0	0.00
Feb 15, 2007	46.0	33.4	0.00
Feb 16, 2007	45.1	32.0	0.00
Feb 17, 2007	57.2	26.4	0.00
Feb 18, 2007	51.1	38.1	0.00
Feb 19, 2007	61.0	30.4	0.00
Feb 20, 2007	66.7	46.0	0.00
Feb 21, 2007	68.7	50.0	0.15
Feb 22, 2007	75.0	46.6	0.00
Feb 23, 2007	70.9	50.0	0.00
Feb 24, 2007	69.4	46.2	0.00
Feb 25, 2007	74.8	56.3	0.00
Feb 26, 2007	74.3	47.5	0.00

Feb 27, 2007	79.7	52.9	0.00
Feb 28, 2007	77.0	49.6	0.00
Mar 1, 2007	76.8	64.4	0.00
Mar 2, 2007	75.2	48.0	1.16
Mar 3, 2007	67.3	45.1	0.00
Mar 4, 2007	56.1	45.9	0.00
Mar 5, 2007	61.7	38.7	0.00
Mar 6, 2007	73.4	38.7	0.00
Mar 7, 2007	73.8	41.4	0.00
Mar 8, 2007	75.9	43.7	0.00
Mar 9, 2007	74.3	48.9	0.00
Mar 10, 2007	75.7	57.7	0.00
Mar 11, 2007	82.9	52.5	0.00
Mar 12, 2007	84.4	53.4	0.00
Mar 13, 2007	78.1	54.1	0.00
Mar 14, 2007	75.2	58.8	0.00
Mar 15, 2007	73.2	61.9	0.00
Mar 16, 2007	68.7	54.9	0.00
Mar 17, 2007	60.8	46.4	0.00
Mar 18, 2007	64.4	48.4	0.00
Mar 19, 2007	70.9	43.9	0.00
Mar 20, 2007	77.5	49.3	0.00
Mar 21, 2007	73.4	57.6	0.00
Mar 22, 2007	75.2	59.2	0.00
Mar 23, 2007	83.5	61.5	0.00
Mar 24, 2007	82.6	62.8	0.00
Mar 25, 2007	87.4	58.8	0.00
Mar 26, 2007	81.1	63.1	0.00
Mar 27, 2007	78.1	65.5	0.00
Mar 28, 2007	81.9	61.7	0.00
Mar 29, 2007	82.6	61.5	0.00
Mar 30, 2007	75.4	63.9	0.00
Mar 31, 2007	76.6	64.4	0.00
Apr 1, 2007	78.4	63.7	0.00
Apr 2, 2007	81.1	64.0	0.00

	84.0	64.9	0.00
Apr 4, 2007	80.6	65.1	0.00
Apr 5, 2007	68.2	55.9	0.00
Apr 6, 2007	63.9	46.9	0.00
Apr 7, 2007	55.8	45.3	0.00
Apr 8, 2007	57.6	42.6	0.00
Apr 9, 2007	57.7	43.2	0.00
Apr 10, 2007	65.3	47.8	0.00
Apr 11, 2007	77.0	57.6	0.00
Apr 12, 2007	75.4	56.5	0.00
Apr 13, 2007	79.7	51.6	0.00
Apr 14, 2007	81.9	62.2	0.00
Apr 15, 2007	74.7	46.0	0.00
Apr 16, 2007	69.8	46.2	0.00
Apr 17, 2007	77.7	56.1	0.00
Apr 18, 2007	69.3	57.0	0.00
Apr 19, 2007	80.8	52.9	0.00
Apr 20, 2007	68.7	57.0	0.00
Apr 21, 2007	76.6	56.5	0.00
Apr 22, 2007	84.4	60.3	0.00
Apr 23, 2007	80.8	60.6	0.00
Apr 24, 2007	80.8	56.8	0.00
Apr 25, 2007	81.5	58.8	0.00
Apr 26, 2007	83.1	66.2	0.00
Apr 27, 2007	80.2	66.0	0.00
Apr 28, 2007	80.6	60.6	0.00
Apr 29, 2007	86.5	60.6	0.00
Apr 30, 2007	89.6	59.2	0.00
May 1, 2007	86.2	61.2	0.00
May 2, 2007	85.8	61.2	0.00
May 3, 2007	86.7	61.0	0.00
May 4, 2007	85.6	63.1	0.00
May 5, 2007	87.3	64.8	0.00
May 6, 2007	89.6	69.6	0.00
May 7, 2007	72.7	61.5	0.00

	79.7	57.2	0.00
May 9, 2007	80.6	65.3	0.00
May 10, 2007	84.9	68.2	0.00
May 11, 2007	92.3	67.1	0.00
May 12, 2007	85.1	71.8	0.00
May 13, 2007	90.5	67.5	0.00
May 14, 2007	83.1	70.7	0.00
May 15, 2007	82.4	66.9	0.00
May 16, 2007	84.0	66.6	0.00
May 17, 2007	81.5	68.5	0.00
May 18, 2007	79.2	61.9	0.00
May 19, 2007	79.7	62.8	0.00
May 20, 2007	85.1	59.7	0.00
May 21, 2007	87.4	60.8	0.00
May 22, 2007	85.3	65.7	0.00
May 23, 2007	84.0	67.3	0.00
May 24, 2007	81.9	68.2	0.00
May 25, 2007	82.8	68.5	0.00
May 26, 2007	81.9	67.8	0.00
May 27, 2007	82.4	68.0	0.00
May 28, 2007	83.8	69.4	0.00
May 29, 2007	85.8	69.6	0.00
May 30, 2007	84.9	69.1	0.00
May 31, 2007	90.7	70.2	0.00
Jun 1, 2007	79.3	71.1	0.00
Jun 2, 2007	73.8	66.2	0.16
Jun 3, 2007	86.0	62.1	0.00
Jun 4, 2007	86.5	72.7	0.21
Jun 5, 2007	85.6	69.8	0.00
Jun 6, 2007	89.6	73.2	0.00
Jun 7, 2007	88.7	74.3	0.00
Jun 8, 2007	91.4	71.8	0.00
Jun 9, 2007	95.9	72.0	0.00
Jun 10, 2007	95.0	74.5	0.00
Jun 11, 2007	97.0	69.4	0.00

	86.9	75.2	0.00
Jun 13, 2007	86.7	70.3	0.00
Jun 14, 2007	85.1	69.4	0.00
Jun 15, 2007	88.0	70.2	0.00
Jun 16, 2007	89.2	74.3	0.00
Jun 17, 2007	93.9	71.6	0.00
Jun 18, 2007	90.9	72.1	0.00
Jun 19, 2007	87.4	73.4	0.00
Jun 20, 2007	88.5	72.0	0.00
Jun 21, 2007	87.4	75.9	0.00
Jun 22, 2007	95.0	73.6	0.00
Jun 23, 2007	97.3	71.2	0.00
Jun 24, 2007	90.9	73.4	0.00
Jun 25, 2007	92.5	75.9	0.00
Jun 26, 2007	90.5	74.8	0.00
Jun 27, 2007	91.0	75.9	0.00
Jun 28, 2007	92.3	77.4	0.02
Jun 29, 2007	95.0	73.8	0.56
Jun 30, 2007	95.9	72.9	0.30
Jul 1, 2007	89.2	74.3	0.03
Jul 2, 2007	90.9	73.0	0.03
Jul 3, 2007	85.8	74.8	0.06
Jul 4, 2007	86.7	73.2	0.00
Jul 5, 2007	92.1	74.8	0.00
Jul 6, 2007	91.4	77.4	0.09
Jul 7, 2007	94.6	76.8	0.00
Jul 8, 2007	90.0	77.9	0.50
Jul 9, 2007	91.2	75.6	0.03
Jul 10, 2007	93.2	73.8	0.00
Jul 11, 2007	89.2	76.6	0.67
Jul 12, 2007	93.9	76.1	0.00
Jul 13, 2007	91.4	74.7	0.00
Jul 14, 2007	91.2	73.6	0.08
Jul 15, 2007	87.6	71.4	0.00
Jul 16, 2007	88.3	73.2	0.25

	91.4	74.5	0.00
Jul 18, 2007	94.1	74.1	0.00
Jul 19, 2007	94.5	75.2	0.00
Jul 20, 2007	96.3	75.6	0.00
Jul 21, 2007	89.8	73.4	0.12
Jul 22, 2007	88.7	73.6	0.03
Jul 23, 2007	84.6	73.8	0.00
Jul 24, 2007	86.0	70.5	0.00
Jul 25, 2007	86.5	71.8	0.01
Jul 26, 2007	87.4	74.3	0.00
Jul 27, 2007	91.9	76.1	0.00
Jul 28, 2007	92.8	75.6	0.00
Jul 29, 2007	94.1	73.8	1.02
Jul 30, 2007	88.7	76.8	0.22
Jul 31, 2007	92.1	74.8	0.06
Aug 1, 2007	89.8	72.7	1.46
Aug 2, 2007	85.5	73.8	0.00
Aug 3, 2007	84.4	74.8	0.07
Aug 4, 2007	98.4	74.3	0.00
Aug 5, 2007	95.0	75.0	0.00
Aug 6, 2007	95.4	77.9	0.00
Aug 7, 2007	98.2	79.5	0.57
Aug 8, 2007	96.8	76.6	0.01
Aug 9, 2007	97.7	78.4	0.00
Aug 10, 2007	96.1	79.2	0.00
Aug 11, 2007	96.4	77.5	0.20
Aug 12, 2007	90.5	75.4	0.12
Aug 13, 2007	94.5	75.4	0.00
Aug 14, 2007	96.8	77.5	0.00
Aug 15, 2007	98.4	77.5	0.00
Aug 16, 2007	94.6	76.5	0.00
Aug 17, 2007	97.3	74.7	0.88
Aug 18, 2007	90.5	72.7	0.00
Aug 19, 2007	91.6	73.9	0.00
Aug 20, 2007	96.1	77.9	0.00

	96.1	79.9	0.00
Aug 22, 2007	103.1	79.0	0.00
Aug 23, 2007	88.0	74.5	0.16
Aug 24, 2007	91.9	76.8	0.02
Aug 25, 2007	92.8	74.8	0.00
Aug 26, 2007	87.8	75.4	0.00
Aug 27, 2007	87.6	76.3	0.00
Aug 28, 2007	91.0	76.5	0.37
Aug 29, 2007	94.8	75.9	0.00
Aug 30, 2007	92.5	76.5	0.01
Aug 31, 2007	90.0	73.4	0.06
Sep 1, 2007	89.8	75.2	0.27
Sep 2, 2007	86.4	75.9	0.10
Sep 3, 2007	86.5	75.7	0.00
Sep 4, 2007	91.8	75.4	0.00
Sep 5, 2007	88.7	75.0	0.00
Sep 6, 2007	89.1	75.6	0.00
Sep 7, 2007	88.2	75.2	0.00
Sep 8, 2007	87.6	74.1	0.00
Sep 9, 2007	90.1	72.7	0.00
Sep 10, 2007	89.6	73.0	0.00
Sep 11, 2007	87.3	72.9	0.03
Sep 12, 2007	88.7	73.9	0.00
Sep 13, 2007	86.0	73.9	0.00
Sep 14, 2007	83.5	74.8	0.08
Sep 15, 2007	87.3	74.5	0.00
Sep 16, 2007	92.7	69.4	0.00
Sep 17, 2007	84.4	72.1	0.00
Sep 18, 2007	83.7	66.4	0.00
Sep 19, 2007	83.3	65.7	0.00
Sep 20, 2007	76.8	70.5	0.00
Sep 21, 2007	79.9	72.7	0.31
Sep 22, 2007	85.1	73.4	0.00
Sep 23, 2007	87.1	73.9	0.09
Sep 24, 2007	87.6	74.3	0.00

	86.0	72.5	0.00
Sep 26, 2007	86.7	73.8	0.00
Sep 27, 2007	89.6	70.9	0.00
Sep 28, 2007	90.9	72.3	0.00
Sep 29, 2007	84.6	70.7	0.00
Sep 30, 2007	82.0	66.6	0.00
Oct 1, 2007	83.5	67.3	0.00
Oct 2, 2007	83.1	67.8	0.15
Oct 3, 2007	83.3	72.3	0.20
Oct 4, 2007	85.8	72.9	0.58
Oct 5, 2007	85.5	74.8	0.21
Oct 6, 2007	83.8	74.7	0.13
Oct 7, 2007	84.2	74.8	0.13
Oct 8, 2007	84.4	73.6	0.01
Oct 9, 2007	88.5	72.5	0.00
Oct 10, 2007	89.8	73.9	0.00
Oct 11, 2007	82.4	65.8	0.00
Oct 12, 2007	85.8	57.4	0.00
Oct 13, 2007	88.0	60.1	0.00
Oct 14, 2007	84.2	64.8	0.00
Oct 15, 2007	81.0	67.8	0.00
Oct 16, 2007	76.6	70.5	0.00
Oct 17, 2007	84.2	71.4	0.00
Oct 18, 2007	76.3	68.9	0.17
Oct 19, 2007	70.0	68.2	0.15
Oct 20, 2007	75.9	60.6	0.06
Oct 21, 2007	77.4	59.4	0.03
Oct 22, 2007	79.2	71.2	0.03
Oct 23, 2007	85.3	61.5	0.01
Oct 24, 2007	63.5	55.0	0.01
Oct 25, 2007	71.1	54.7	0.01
Oct 26, 2007	76.6	60.1	0.01
Oct 27, 2007	75.4	55.6	0.01
Oct 28, 2007	71.4	54.5	0.00
Oct 29, 2007	68.2	59.4	0.00

	71.8	54.7	0.00
Oct 31, 2007	74.5	62.2	0.00
Nov 1, 2007	77.0	62.8	0.00
Nov 2, 2007	74.1	58.5	0.00
Nov 3, 2007	78.6	53.8	0.00
Nov 4, 2007	75.9	52.7	0.00
Nov 5, 2007	81.7	47.8	0.00
Nov 6, 2007	73.8	50.0	0.00
Nov 7, 2007	59.4	41.2	0.00
Nov 8, 2007	63.1	37.0	0.00
Nov 9, 2007	71.1	38.3	0.00
Nov 10, 2007	73.4	49.1	0.00
Nov 11, 2007	69.4	48.0	0.00
Nov 12, 2007	75.2	54.3	0.00
Nov 13, 2007	72.7	50.4	0.00
Nov 14, 2007	77.9	52.5	0.00
Nov 15, 2007	66.7	51.1	0.03
Nov 16, 2007	64.4	39.9	0.00
Nov 17, 2007	64.4	34.7	0.00
Nov 18, 2007	71.4	44.8	0.00
Nov 19, 2007	77.0	57.6	0.00
Nov 20, 2007	75.2	52.7	0.00
Nov 21, 2007	76.5	55.2	0.00
Nov 22, 2007	73.6	51.1	0.93
Nov 23, 2007	58.5	45.1	0.03
Nov 24, 2007	61.7	46.9	0.01
Nov 25, 2007	66.4	53.2	0.00
Nov 26, 2007	72.0	57.9	0.01
Nov 27, 2007	62.8	49.6	0.00
Nov 28, 2007	66.7	46.8	0.03
Nov 29, 2007	77.2	56.5	0.00
Nov 30, 2007	67.3	54.0	0.00
Dec 1, 2007	67.3	52.0	0.00
Dec 2, 2007	75.7	56.3	0.00
Dec 3, 2007	70.7	49.1	0.00

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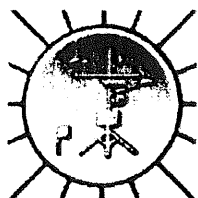
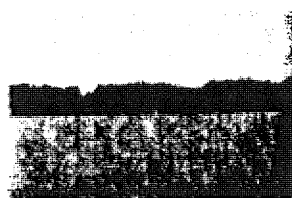
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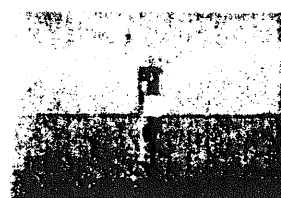
	64.6	40.5	0.00
Dec 5, 2007	67.5	36.9	0.00
Dec 6, 2007	70.7	46.8	0.00
Dec 7, 2007	74.7	48.0	0.00
Dec 8, 2007	81.3	56.8	0.00
Dec 9, 2007	82.0	59.0	0.00
Dec 10, 2007	87.6	59.4	0.00
Dec 11, 2007	78.1	59.0	0.00
Dec 12, 2007	79.7	57.9	0.00
Dec 13, 2007	78.1	62.1	0.00
Dec 14, 2007	66.9	58.6	0.00
Dec 15, 2007	73.6	61.9	0.08
Dec 16, 2007	67.1	41.5	0.02
Dec 17, 2007	52.7	36.0	0.00
Dec 18, 2007	59.7	36.1	0.00
Dec 19, 2007	68.7	37.2	0.00
Dec 20, 2007	68.7	47.1	0.04
Dec 21, 2007	63.5	54.7	0.61
Dec 22, 2007	57.4	51.3	0.13
Dec 23, 2007	62.4	47.1	0.04
Dec 24, 2007	55.6	40.5	0.00
Dec 25, 2007	50.7	42.4	0.17
Dec 26, 2007	46.6	40.8	0.00
Dec 27, 2007	70.7	43.9	0.00
Dec 28, 2007	77.4	61.3	0.01
Dec 29, 2007	74.5	61.7	0.79
Dec 30, 2007	74.3	55.9	0.83
Dec 31, 2007	76.1	50.2	0.00

Data requested on Monday July 20 2009 at 4:48:08 PM.

For Automated Environmental Monitoring Network information
or for comments or suggestions, please contact Gerrit Hoogenboom



**Georgia Automated
Environmental
Monitoring Network**
www.GeorgiaWeather.net



Sneads Landing
Lake Seminole seminole.uslakes.info/
Marianna, Jackson County, FL

Historical Data

(Tmin,Tmax and Precipitation amount)

From - Jan - 1 2008

To - Dec - 31 2008

Date	Max. Temp. (°F)	Min. Temp. (°F)	Rain (in)
Jan 1, 2008	54.7	43.7	0.00
Jan 2, 2008	44.1	32.2	0.00
Jan 3, 2008	42.3	26.4	0.00
Jan 4, 2008	47.8	34.2	0.00
Jan 5, 2008	64.2	38.7	0.00
Jan 6, 2008	67.1	44.4	0.00
Jan 7, 2008	72.3	48.7	0.00
Jan 8, 2008	73.2	53.6	0.00
Jan 9, 2008	74.1	59.7	0.01
Jan 10, 2008	74.8	61.9	0.00
Jan 11, 2008	68.2	56.8	0.45
Jan 12, 2008	76.3	49.8	0.00
Jan 13, 2008	65.8	46.0	0.00
Jan 14, 2008	58.5	41.9	0.00
Jan 15, 2008	57.0	39.7	0.00
Jan 16, 2008	55.6	45.3	0.87
Jan 17, 2008	55.8	45.3	0.10
Jan 18, 2008	58.6	45.9	0.00
Jan 19, 2008	53.1	40.1	0.83
Jan 20, 2008	43.0	32.7	0.35
Jan 21, 2008	52.7	32.0	0.00
Jan 22, 2008	58.8	45.5	0.30

Jan 23, 2008	54.7	52.2	0.00
Jan 24, 2008	52.5	40.5	0.09
Jan 25, 2008	48.9	32.2	0.00
Jan 26, 2008	49.3	42.4	0.32
Jan 27, 2008	58.6	43.7	0.00
Jan 28, 2008	61.5	36.0	0.00
Jan 29, 2008	66.7	37.8	0.00
Jan 30, 2008	64.6	40.3	0.56
Jan 31, 2008	67.8	44.4	0.11
Feb 1, 2008	68.4	43.7	0.97
Feb 2, 2008	61.3	37.6	0.00
Feb 3, 2008	70.7	39.9	0.00
Feb 4, 2008	75.9	48.6	0.00
Feb 5, 2008	77.7	58.6	0.00
Feb 6, 2008	75.9	57.9	0.16
Feb 7, 2008	61.3	46.4	0.00
Feb 8, 2008	67.5	40.6	0.00
Feb 9, 2008	71.8	48.4	0.00
Feb 10, 2008	71.1	45.3	0.00
Feb 11, 2008	70.7	40.1	0.00
Feb 12, 2008	68.9	52.0	0.12
Feb 13, 2008	62.1	35.1	0.09
Feb 14, 2008	56.1	32.2	0.00
Feb 15, 2008	66.6	37.6	0.00
Feb 16, 2008	72.9	45.7	0.00
Feb 17, 2008	73.2	57.4	1.84
Feb 18, 2008	66.9	51.1	1.24
Feb 19, 2008	64.0	45.1	0.00
Feb 20, 2008	70.0	40.6	0.00
Feb 21, 2008	62.2	49.3	4.20
Feb 22, 2008	73.6	57.4	2.23
Feb 23, 2008	66.9	54.1	0.10
Feb 24, 2008	65.7	46.0	0.00
Feb 25, 2008	73.2	48.9	0.00
Feb 26, 2008	74.8	48.9	0.19

Feb 27, 2008	50.0	39.9	0.00
Feb 28, 2008	52.2	36.7	0.00
Feb 29, 2008	63.7	39.4	0.00
Mar 1, 2008	69.3	43.9	0.00
Mar 2, 2008	73.6	47.8	0.00
Mar 3, 2008	75.2	57.4	0.00
Mar 4, 2008	70.7	52.5	0.48
Mar 5, 2008	63.3	42.6	0.00
Mar 6, 2008	72.1	43.7	0.00
Mar 7, 2008	68.2	58.5	1.49
Mar 8, 2008	59.0	40.8	0.01
Mar 9, 2008	60.8	38.3	0.00
Mar 10, 2008	69.1	47.3	0.00
Mar 11, 2008	58.6	48.9	0.10
Mar 12, 2008	69.3	44.4	0.01
Mar 13, 2008	70.7	46.0	0.00
Mar 14, 2008	65.7	54.5	0.00
Mar 15, 2008	79.0	63.7	0.00
Mar 16, 2008	80.2	60.1	0.00
Mar 17, 2008	75.4	58.8	0.00
Mar 18, 2008	74.5	59.4	0.00
Mar 19, 2008	77.9	63.5	0.57
Mar 20, 2008	66.4	52.3	0.00
Mar 21, 2008	72.7	48.4	0.00
Mar 22, 2008	71.2	50.5	0.00
Mar 23, 2008	69.3	55.4	0.00
Mar 24, 2008	58.1	47.5	0.00
Mar 25, 2008	62.2	42.1	0.00
Mar 26, 2008	72.1	41.5	0.00
Mar 27, 2008	74.1	48.0	0.00
Mar 28, 2008	75.2	52.2	0.00
Mar 29, 2008	77.5	55.4	0.00
Mar 30, 2008	70.9	57.9	0.00
Mar 31, 2008	70.7	53.2	0.00
Apr 1, 2008	76.8	59.9	0.00

	81.5	62.6	0.00
Apr 3, 2008	82.0	61.0	0.00
Apr 4, 2008	80.2	67.5	0.80
Apr 5, 2008	73.8	63.0	2.57
Apr 6, 2008	70.5	64.2	0.01
Apr 7, 2008	73.4	64.9	0.00
Apr 8, 2008	72.3	62.4	0.00
Apr 9, 2008	76.6	59.9	0.00
Apr 10, 2008	79.2	64.6	0.00
Apr 11, 2008	82.8	63.9	0.00
Apr 12, 2008	75.6	61.3	0.02
Apr 13, 2008	68.5	53.1	0.00
Apr 14, 2008	58.5	47.7	0.00
Apr 15, 2008	62.2	44.1	0.00
Apr 16, 2008	69.4	42.4	0.00
Apr 17, 2008	74.8	46.4	0.00
Apr 18, 2008	77.2	52.3	0.00
Apr 19, 2008	76.3	62.4	0.33
Apr 20, 2008	80.1	51.4	0.00
Apr 21, 2008	78.6	59.9	0.00
Apr 22, 2008	79.5	56.5	0.00
Apr 23, 2008	79.0	64.9	0.00
Apr 24, 2008	81.0	64.6	0.00
Apr 25, 2008	81.5	67.8	0.00
Apr 26, 2008	80.2	61.9	0.00
Apr 27, 2008	77.5	66.6	0.00
Apr 28, 2008	75.0	64.0	0.42
Apr 29, 2008	72.5	57.4	0.00
Apr 30, 2008	78.8	53.2	0.00
May 1, 2008	80.4	56.5	0.00
May 2, 2008	79.3	61.2	0.00
May 3, 2008	77.5	62.6	0.02
May 4, 2008	83.8	60.8	0.00
May 5, 2008	81.3	63.1	0.00
May 6, 2008	83.7	57.4	0.00

	83.7	61.5	0.00
May 8, 2008	82.2	64.9	0.00
May 9, 2008	85.6	74.1	0.00
May 10, 2008	86.4	74.7	0.00
May 11, 2008	88.7	72.0	0.00
May 12, 2008	79.2	61.9	0.00
May 13, 2008	85.1	61.2	0.00
May 14, 2008	80.6	65.7	0.00
May 15, 2008	79.0	66.4	0.23
May 16, 2008	75.4	69.3	0.95
May 17, 2008	79.2	62.8	0.05
May 18, 2008	79.5	63.1	0.00
May 19, 2008	85.3	64.2	0.00
May 20, 2008	85.5	66.2	0.00
May 21, 2008	86.7	73.6	0.00
May 22, 2008	82.0	71.2	0.03
May 23, 2008	83.1	69.8	0.01
May 24, 2008	88.9	69.8	0.00
May 25, 2008	85.3	72.3	0.00
May 26, 2008	87.8	68.2	0.00
May 27, 2008	87.8	67.6	0.00
May 28, 2008	88.3	67.3	0.00
May 29, 2008	89.4	73.2	0.00
May 30, 2008	89.1	73.8	0.00
May 31, 2008	91.9	73.2	0.00
Jun 1, 2008	92.1	73.2	0.00
Jun 2, 2008	93.4	73.8	0.00
Jun 3, 2008	91.6	75.0	0.00
Jun 4, 2008	91.2	73.8	0.00
Jun 5, 2008	91.8	71.6	0.00
Jun 6, 2008	91.6	74.3	0.00
Jun 7, 2008	94.6	75.4	0.00
Jun 8, 2008	97.5	75.6	0.04
Jun 9, 2008	90.3	71.6	0.46
Jun 10, 2008	88.5	73.4	0.01

	87.6	71.6	0.00
Jun 12, 2008	89.6	73.9	0.68
Jun 13, 2008	86.5	73.8	0.11
Jun 14, 2008	86.5	74.1	0.29
Jun 15, 2008	87.1	73.0	0.11
Jun 16, 2008	88.5	70.2	0.01
Jun 17, 2008	92.3	72.1	0.00
Jun 18, 2008	88.7	74.7	0.00
Jun 19, 2008	90.7	71.1	0.00
Jun 20, 2008	90.5	68.7	0.00
Jun 21, 2008	91.0	71.8	0.00
Jun 22, 2008	83.1	70.0	0.00
Jun 23, 2008	88.5	69.3	0.01
Jun 24, 2008	90.5	72.9	0.00
Jun 25, 2008	91.8	72.0	0.01
Jun 26, 2008	85.1	70.3	0.04
Jun 27, 2008	86.2	71.8	0.00
Jun 28, 2008	86.4	71.8	0.77
Jun 29, 2008	81.0	70.9	0.73
Jun 30, 2008	81.5	71.2	1.33
Jul 1, 2008	86.0	70.0	0.00
Jul 2, 2008	87.3	71.1	0.00
Jul 3, 2008	84.9	72.5	0.01
Jul 4, 2008	89.1	72.5	0.00
Jul 5, 2008	88.5	73.0	0.00
Jul 6, 2008	85.6	72.7	0.03
Jul 7, 2008	84.9	73.6	0.00
Jul 8, 2008	85.5	73.2	0.16
Jul 9, 2008	85.1	74.1	0.00
Jul 10, 2008	89.2	73.4	0.00
Jul 11, 2008	87.6	73.6	1.69
Jul 12, 2008	89.4	73.9	0.51
Jul 13, 2008	90.3	72.1	0.90
Jul 14, 2008	88.0	73.4	0.00
Jul 15, 2008	87.4	74.3	0.63

	88.9	73.9	0.01
Jul 17, 2008	88.0	75.9	0.00
Jul 18, 2008	91.8	75.7	0.00
Jul 19, 2008	96.1	75.0	0.00
Jul 20, 2008	93.4	76.3	0.00
Jul 21, 2008	94.1	77.0	0.03
Jul 22, 2008	89.8	75.4	0.00
Jul 23, 2008	88.9	69.8	4.40
Jul 24, 2008	89.8	70.0	0.00
Jul 25, 2008	93.2	75.9	0.00
Jul 26, 2008	90.9	75.7	0.00
Jul 27, 2008	90.9	74.5	0.00
Jul 28, 2008	89.2	76.1	0.22
Jul 29, 2008	87.4	76.8	0.38
Jul 30, 2008	87.3	75.2	0.51
Jul 31, 2008	83.8	76.1	0.05
Aug 1, 2008	88.2	75.7	0.00
Aug 2, 2008	85.3	74.8	0.00
Aug 3, 2008	89.6	73.9	0.00
Aug 4, 2008	87.3	75.0	0.00
Aug 5, 2008	90.5	75.0	0.00
Aug 6, 2008	93.7	75.0	0.00
Aug 7, 2008	93.2	75.9	0.00
Aug 8, 2008	87.6	73.6	0.00
Aug 9, 2008	89.6	73.6	0.00
Aug 10, 2008	89.8	68.2	0.03
Aug 11, 2008	88.0	71.4	0.00
Aug 12, 2008	78.4	72.7	2.87
Aug 13, 2008	80.6	71.6	0.72
Aug 14, 2008	88.0	74.3	0.00
Aug 15, 2008	87.6	72.3	0.00
Aug 16, 2008	82.4	71.1	0.34
Aug 17, 2008	83.5	73.6	0.00
Aug 18, 2008	83.7	72.1	0.01
Aug 19, 2008	86.9	74.1	0.02

	86.9	74.5	0.00
Aug 21, 2008	84.2	75.9	0.01
Aug 22, 2008	78.3	74.5	2.52
Aug 23, 2008	78.6	74.7	1.54
Aug 24, 2008	83.7	74.1	1.39
Aug 25, 2008	83.1	72.7	1.30
Aug 26, 2008	85.8	76.3	0.04
Aug 27, 2008	89.2	75.0	0.00
Aug 28, 2008	91.8	73.6	0.00
Aug 29, 2008	93.4	76.1	0.00
Aug 30, 2008	88.3	74.8	0.00
Aug 31, 2008	85.8	74.1	0.26
Sep 1, 2008	87.4	79.9	0.00
Sep 2, 2008	84.6	77.5	0.13
Sep 3, 2008	85.1	74.1	0.00
Sep 4, 2008	89.8	73.4	0.00
Sep 5, 2008	86.7	71.4	0.00
Sep 6, 2008	88.3	71.2	0.32
Sep 7, 2008	92.8	75.0	0.18
Sep 8, 2008	87.3	78.4	0.00
Sep 9, 2008	88.3	76.5	0.00
Sep 10, 2008	87.4	75.9	0.20
Sep 11, 2008	87.6	77.0	0.00
Sep 12, 2008	87.1	76.8	0.00
Sep 13, 2008	88.7	75.4	0.00
Sep 14, 2008	89.1	72.5	0.00
Sep 15, 2008	87.8	71.4	0.01
Sep 16, 2008	84.0	71.4	0.00
Sep 17, 2008	82.9	69.4	0.00
Sep 18, 2008	83.3	71.1	0.00
Sep 19, 2008	81.7	71.4	0.00
Sep 20, 2008	78.3	70.2	0.00
Sep 21, 2008	77.0	69.6	0.00
Sep 22, 2008	82.8	69.8	0.00
Sep 23, 2008	82.9	70.5	0.00

	77.7	64.2	0.00
Sep 25, 2008	79.3	60.4	0.00
Sep 26, 2008	85.3	58.8	0.00
Sep 27, 2008	86.5	57.9	0.00
Sep 28, 2008	83.8	60.1	0.00
Sep 29, 2008	88.2	65.1	0.00
Sep 30, 2008	88.5	69.3	0.00
Oct 1, 2008	80.8	66.9	0.00
Oct 2, 2008	77.4	60.6	0.00
Oct 3, 2008	80.1	56.5	0.00
Oct 4, 2008	89.2	59.9	0.00
Oct 5, 2008	80.8	65.7	0.00
Oct 6, 2008	82.4	68.5	0.00
Oct 7, 2008	80.2	69.6	0.13
Oct 8, 2008	78.8	69.1	0.05
Oct 9, 2008	81.5	67.5	0.00
Oct 10, 2008	79.5	66.2	0.00
Oct 11, 2008	75.9	69.3	0.00
Oct 12, 2008	78.4	68.7	0.00
Oct 13, 2008	79.3	72.7	0.00
Oct 14, 2008	79.3	68.5	0.00
Oct 15, 2008	89.8	66.2	0.00
Oct 16, 2008	86.4	62.8	0.00
Oct 17, 2008	83.8	62.6	0.00
Oct 18, 2008	71.4	60.6	0.06
Oct 19, 2008	68.4	56.5	0.00
Oct 20, 2008	75.0	52.9	0.00
Oct 21, 2008	75.6	55.8	0.00
Oct 22, 2008	78.1	56.3	0.00
Oct 23, 2008	68.7	61.9	0.54
Oct 24, 2008	68.2	59.9	1.49
Oct 25, 2008	70.3	57.9	0.00
Oct 26, 2008	75.6	54.1	0.00
Oct 27, 2008	64.2	50.0	0.00
Oct 28, 2008	56.5	43.7	0.00

	61.9	38.7	0.00
Oct 30, 2008	67.1	44.4	0.00
Oct 31, 2008	68.2	53.2	0.00
Nov 1, 2008	68.7	47.8	0.00
Nov 2, 2008	70.5	51.6	0.00
Nov 3, 2008	73.0	54.7	0.00
Nov 4, 2008	66.6	58.3	0.00
Nov 5, 2008	75.0	52.2	0.00
Nov 6, 2008	71.8	52.0	0.00
Nov 7, 2008	75.6	51.6	0.01
Nov 8, 2008	70.7	51.6	0.01
Nov 9, 2008	68.9	46.8	0.00
Nov 10, 2008	68.4	45.5	0.00
Nov 11, 2008	70.0	46.0	0.00
Nov 12, 2008	72.7	56.8	0.00
Nov 13, 2008	79.3	67.3	0.47
Nov 14, 2008	81.0	65.5	1.06
Nov 15, 2008	67.5	49.1	0.00
Nov 16, 2008	56.5	41.7	0.00
Nov 17, 2008	65.3	40.6	0.00
Nov 18, 2008	51.8	41.7	0.00
Nov 19, 2008	56.7	37.0	0.00
Nov 20, 2008	68.4	36.5	0.00
Nov 21, 2008	57.6	41.9	0.00
Nov 22, 2008	52.9	35.1	0.00
Nov 23, 2008	64.4	36.1	0.00
Nov 24, 2008	67.6	47.8	0.03
Nov 25, 2008	62.6	41.2	0.00
Nov 26, 2008	60.1	34.9	0.00
Nov 27, 2008	68.0	45.0	0.00
Nov 28, 2008	70.0	54.7	1.13
Nov 29, 2008	70.5	61.5	0.45
Nov 30, 2008	62.4	52.3	1.36
Dec 1, 2008	59.4	45.3	0.00
Dec 2, 2008	55.6	37.4	0.00

	59.7	34.2	0.00
Dec 4, 2008	68.2	39.9	0.00
Dec 5, 2008	59.2	48.9	0.05
Dec 6, 2008	64.0	47.7	0.00
Dec 7, 2008	57.7	38.8	0.00
Dec 8, 2008	61.7	36.5	0.00
Dec 9, 2008	72.0	52.7	0.00
Dec 10, 2008	70.9	61.9	2.86
Dec 11, 2008	69.1	42.4	3.29
Dec 12, 2008	57.6	42.1	0.00
Dec 13, 2008	52.2	39.4	0.00
Dec 14, 2008	61.5	46.0	0.00
Dec 15, 2008	72.0	56.5	0.00
Dec 16, 2008	75.7	56.7	0.00
Dec 17, 2008	76.6	56.7	0.00
Dec 18, 2008	75.6	55.2	0.00
Dec 19, 2008	74.8	56.7	0.00
Dec 20, 2008	74.3	64.8	0.00
Dec 21, 2008	68.9	47.1	0.02
Dec 22, 2008	47.3	33.8	0.00
Dec 23, 2008	64.4	37.0	0.00
Dec 24, 2008	71.1	55.8	0.00
Dec 25, 2008	74.1	60.1	0.05
Dec 26, 2008	72.3	59.0	0.01
Dec 27, 2008	73.8	59.9	0.00
Dec 28, 2008	74.1	62.1	0.00
Dec 29, 2008	71.4	55.4	0.15
Dec 30, 2008	70.2	44.1	0.00
Dec 31, 2008	64.0	47.1	0.00

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Sneads Landing
Lake Seminole seminole.uslakes.info/
Marianna, Jackson County, FL

Historical Data

(Tmin,Tmax and Precipitation amount)

From - Jan	- 1	2009	Date	Max. Temp. (°F)	Min. Temp. (°F)	Rain (in)
To - Jun	- 30	2009				
Submit			Jan 1, 2009	55.4	41.4	0.00
			Jan 2, 2009	72.5	48.9	0.00
			Jan 3, 2009	72.0	62.1	0.00
			Jan 4, 2009	74.8	59.2	0.62
			Jan 5, 2009	70.9	59.4	0.00
			Jan 6, 2009	75.7	63.1	0.00
			Jan 7, 2009	73.2	50.0	0.07
			Jan 8, 2009	71.1	44.8	0.00
			Jan 9, 2009	68.0	48.6	0.00
			Jan 10, 2009	70.7	47.7	0.03
			Jan 11, 2009	68.2	46.2	0.04
			Jan 12, 2009	53.2	38.7	0.00
			Jan 13, 2009	59.5	45.7	0.00
			Jan 14, 2009	55.0	37.2	0.00
			Jan 15, 2009	57.4	34.2	0.00
			Jan 16, 2009	42.8	30.4	0.00
			Jan 17, 2009	52.9	32.4	0.00
			Jan 18, 2009	63.0	40.3	0.21
			Jan 19, 2009	58.6	40.3	0.00
			Jan 20, 2009	42.4	32.0	0.00
			Jan 21, 2009	47.5	29.1	0.00
			Jan 22, 2009	59.7	27.0	0.00

Jan 23, 2009	68.2	38.3	0.00
Jan 24, 2009	68.5	52.7	0.02
Jan 25, 2009	58.5	52.9	0.04
Jan 26, 2009	69.1	54.7	0.01
Jan 27, 2009	72.7	53.1	0.00
Jan 28, 2009	72.5	55.9	0.34
Jan 29, 2009	59.2	46.6	0.04
Jan 30, 2009	54.9	44.1	0.00
Jan 31, 2009	59.7	32.9	0.00
Feb 1, 2009	64.0	36.3	0.00
Feb 2, 2009	57.7	46.2	0.05
Feb 3, 2009	55.2	37.2	0.00
Feb 4, 2009	48.0	29.7	0.00
Feb 5, 2009	46.2	30.4	0.00
Feb 6, 2009	58.1	29.8	0.00
Feb 7, 2009	68.4	34.2	0.00
Feb 8, 2009	66.9	39.7	0.00
Feb 9, 2009	68.9	43.7	0.00
Feb 10, 2009	68.5	46.0	0.00
Feb 11, 2009	72.5	55.2	0.05
Feb 12, 2009	71.6	49.6	0.00
Feb 13, 2009	72.3	41.9	0.04
Feb 14, 2009	65.3	53.1	1.38
Feb 15, 2009	62.1	55.4	0.03
Feb 16, 2009	58.6	46.0	0.01
Feb 17, 2009	63.7	45.0	0.00
Feb 18, 2009	71.4	50.7	0.05
Feb 19, 2009	70.3	48.4	0.15
Feb 20, 2009	54.3	37.6	0.00
Feb 21, 2009	60.6	32.4	0.00
Feb 22, 2009	55.6	46.6	0.00
Feb 23, 2009	55.0	37.2	0.00
Feb 24, 2009	62.2	43.0	0.00
Feb 25, 2009	67.6	47.7	0.00
Feb 26, 2009	70.2	52.9	0.00

Feb 27, 2009	71.6	55.0	0.00
Feb 28, 2009	74.3	61.9	0.30
Mar 1, 2009	61.9	39.2	0.05
Mar 2, 2009	52.5	35.4	0.00
Mar 3, 2009	50.9	34.9	0.00
Mar 4, 2009	57.2	37.9	0.00
Mar 5, 2009	67.5	39.9	0.00
Mar 6, 2009	73.4	48.0	0.00
Mar 7, 2009	74.5	49.3	0.00
Mar 8, 2009	76.1	51.3	0.00
Mar 9, 2009	73.6	55.2	0.00
Mar 10, 2009	78.6	55.9	0.00
Mar 11, 2009	75.0	51.1	0.00
Mar 12, 2009	80.6	56.5	0.00
Mar 13, 2009	79.2	56.8	0.00
Mar 14, 2009	77.5	58.6	0.00
Mar 15, 2009	77.7	66.2	0.02
Mar 16, 2009	71.1	62.6	0.25
Mar 17, 2009	69.4	59.4	0.01
Mar 18, 2009	70.3	55.6	0.00
Mar 19, 2009	75.7	57.7	0.00
Mar 20, 2009	69.8	54.7	0.00
Mar 21, 2009	68.9	54.0	0.00
Mar 22, 2009	68.4	51.6	0.00
Mar 23, 2009	72.1	53.6	0.00
Mar 24, 2009	74.1	59.2	0.00
Mar 25, 2009	74.8	60.4	0.00
Mar 26, 2009	68.5	60.8	1.76
Mar 27, 2009	67.8	59.7	1.18
Mar 28, 2009	72.9	62.6	2.36
Mar 29, 2009	68.0	51.8	0.00
Mar 30, 2009	69.1	47.8	0.00
Mar 31, 2009	68.9	51.3	1.92
Apr 1, 2009	72.3	62.6	0.69
Apr 2, 2009	72.0	62.4	4.79

	73.0	60.8	0.02
Apr 4, 2009	72.5	57.4	0.01
Apr 5, 2009	75.4	58.1	0.02
Apr 6, 2009	72.7	48.0	0.01
Apr 7, 2009	55.9	41.7	0.00
Apr 8, 2009	67.5	39.7	0.00
Apr 9, 2009	75.6	50.5	0.00
Apr 10, 2009	77.2	59.2	0.00
Apr 11, 2009	76.3	64.4	0.00
Apr 12, 2009	77.5	57.9	0.00
Apr 13, 2009	73.6	61.3	1.66
Apr 14, 2009	73.4	57.0	0.01
Apr 15, 2009	70.3	49.6	0.00
Apr 16, 2009	72.5	55.4	0.00
Apr 17, 2009	70.5	57.7	0.00
Apr 18, 2009	75.4	55.0	0.00
Apr 19, 2009	76.3	59.4	0.00
Apr 20, 2009	75.6	65.3	0.00
Apr 21, 2009	77.4	54.3	0.12
Apr 22, 2009	79.0	54.7	0.00
Apr 23, 2009	86.7	63.9	0.00
Apr 24, 2009	84.4	57.4	0.00
Apr 25, 2009	82.0	63.0	0.00
Apr 26, 2009	80.1	64.8	0.00
Apr 27, 2009	79.0	63.9	0.00
Apr 28, 2009	79.5	65.5	0.00
Apr 29, 2009	80.2	66.4	0.00
Apr 30, 2009	80.2	65.3	0.00
May 1, 2009	81.7	62.2	0.00
May 2, 2009	82.8	64.6	0.00
May 3, 2009	81.5	66.7	0.00
May 4, 2009	78.1	68.5	0.01
May 5, 2009	81.9	71.4	0.00
May 6, 2009	85.3	69.4	0.00
May 7, 2009	85.3	68.5	0.00

	85.5	69.6	0.00
May 9, 2009	86.7	64.8	0.00
May 10, 2009	86.7	69.4	0.00
May 11, 2009	85.8	71.4	0.00
May 12, 2009	77.9	69.8	0.00
May 13, 2009	82.2	68.0	0.00
May 14, 2009	86.2	70.0	0.00
May 15, 2009	85.1	70.2	0.00
May 16, 2009	83.3	71.2	0.00
May 17, 2009	81.1	68.7	0.00
May 18, 2009	68.9	59.5	0.00
May 19, 2009	70.3	58.3	0.00
May 20, 2009	75.9	65.5	0.00
May 21, 2009	75.6	67.6	0.00
May 22, 2009	76.6	69.8	0.29
May 23, 2009	81.0	70.5	0.32
May 24, 2009	76.8	68.0	0.60
May 25, 2009	76.8	69.6	0.09
May 26, 2009	78.8	70.5	1.18
May 27, 2009	82.8	71.4	0.27
May 28, 2009	84.6	69.4	0.00
May 29, 2009	86.5	73.4	0.00
May 30, 2009	82.4	68.2	0.00
May 31, 2009	90.5	67.1	0.00
Jun 1, 2009	92.8	69.4	0.00
Jun 2, 2009	91.4	69.8	0.00
Jun 3, 2009	80.8	70.2	0.38
Jun 4, 2009	80.8	70.5	0.92
Jun 5, 2009	78.3	69.1	0.57
Jun 6, 2009	84.0	66.9	0.01
Jun 7, 2009	85.5	71.8	0.00
Jun 8, 2009	89.4	72.0	0.00
Jun 9, 2009	89.4	72.5	0.00
Jun 10, 2009	92.7	72.1	0.00
Jun 11, 2009	90.9	74.7	0.00

	91.9	72.1	0.00
Jun 13, 2009	90.0	75.0	0.00
Jun 14, 2009	91.2	72.3	0.02
Jun 15, 2009	91.8	72.3	0.00
Jun 16, 2009	93.7	75.2	0.00
Jun 17, 2009	96.3	77.2	0.00
Jun 18, 2009	93.9	76.1	0.00
Jun 19, 2009	95.5	77.5	0.00
Jun 20, 2009	96.6	77.9	0.00
Jun 21, 2009	95.0	77.7	0.00
Jun 22, 2009	95.4	79.9	0.00
Jun 23, 2009	94.5	76.6	0.00
Jun 24, 2009	91.2	75.4	0.00
Jun 25, 2009	92.3	73.9	0.00
Jun 26, 2009	92.5	73.6	0.00
Jun 27, 2009	91.9	76.1	0.00
Jun 28, 2009	94.5	74.5	0.26
Jun 29, 2009	91.0	75.0	0.56
Jun 30, 2009	90.1	75.4	0.02

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LEGEND:

MWB-1

Monitoring Well

117

Groundwater Elevation

Groundwater Flow Direction

Equipotential Line

UNIT 1



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FIGURE 1
PLANT SCHOLZ POTENTIOMETRIC MAP
OF THE SURFICIAL AQUIFER
JANUARY 6, 2006

Southern Company Generation
Engineering and Construction Services
FOR

Gulf Power Company

SCALE	PROJECT	DRAWING NUMBER	SHEET	CON ID	REV
AS SHOWN		FIGURE 1	1	FINAL	0



LEGEND:

MWB-1
●

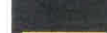
Monitoring Well

118.04

Groundwater Elevation



Groundwater Flow Direction



Equipotential Line

UNIT 1



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FIGURE 2
PLANT SCHOLZ POTENTIOMETRIC MAP
OF THE SURFICIAL AQUIFER
APRIL 18, 2006

Southern Company Generation
Engineering and Construction Services
FOR

Gulf Power Company

SCALE	PROJECT ID	DRAWING NUMBER	SHEET	CON'D	REV
AS SHOWN		FIGURE 2	1	FINAL	0



LEGEND:

- MWB-1 Monitoring Well
- 117.68 Groundwater Elevation
- Groundwater Flow Direction
- Equipotential Line

UNIT 1



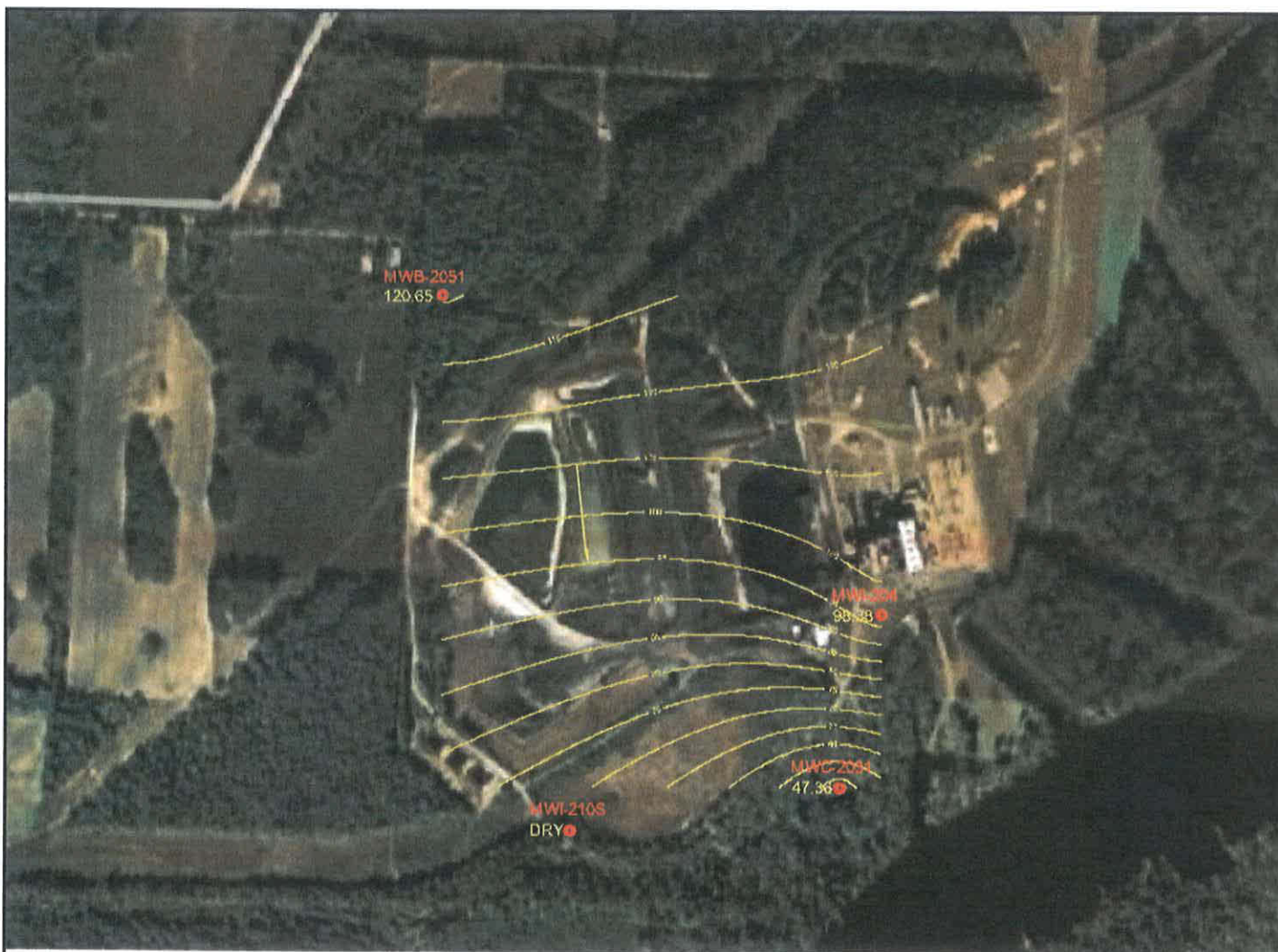
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FIGURE 3
PLANT SCHOLZ POTENTIOMETRIC MAP
OF THE SURFICIAL AQUIFER
APRIL 24, 2007

Southern Company Generation
Engineering and Construction Services
FOR

Gulf Power Company

SCALE	PROJECT	DRAWING NUMBER	SHEET	CONT.	REV.
AS SHOWN		FIGURE 3	1	FINAL	0



LEGEND:

- MWB-1 Monitoring Well
- 120.65 Groundwater Elevation
- Groundwater Flow Direction
- Equipotential Line

UNIT 1



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FIGURE 4
PLANT SCHOLZ POTENTIOMETRIC MAP
OF THE SURFICIAL AQUIFER
MAY 21, 2008

Southern Company Generation
Engineering and Construction Services
FOR

Gulf Power Company

SCALE	PROJECT ID	DRAWING NUMBER	SHEET	CON'D	REV
AS SHOWN		FIGURE 4	1	FINAL	0



LEGEND:

- MWB-1 Monitoring Well
- 123.13 Groundwater Elevation
- Groundwater Flow Direction
- Equipotential Line

UNIT 1



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FIGURE 5
PLANT SCHOLZ POTENTIOMETRIC MAP
OF THE SURFICIAL AQUIFER
MAY 20, 2008

Southern Company Generation
Engineering and Construction Services
FOR

Gulf Power Company

SCALE	PROJECT	DRAWING NUMBER	SHEET	CON'TO	TOTAL
AS SHOWN		FIGURE 5	1	FINAL	0



LEGEND:

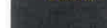
MWB-1



Monitoring Well

52.30

Groundwater Elevation



Groundwater Flow Direction



Equipotential Line

UNIT 2



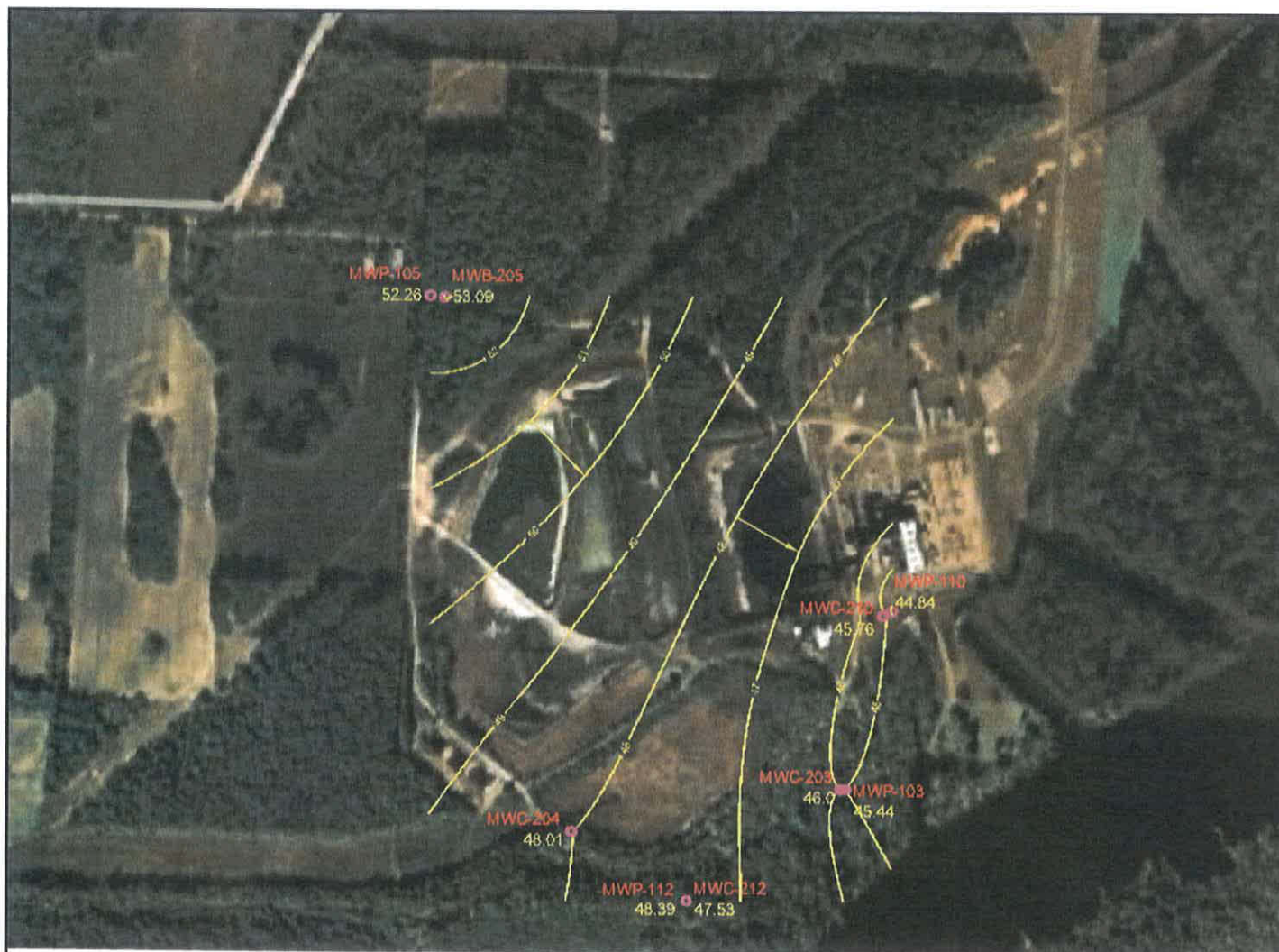
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FIGURE 6
PLANT SCHOLZ POTENTIOMETRIC MAP
OF THE FLORIDIAN AQUIFER
JANUARY 6, 2006

Southern Company Generation
Engineering and Construction Services
FOR

Gulf Power Company

SCALE	PREPARED	DRAWING NUMBER	SHEET	CON TO	REV
AS SHOWN		FIGURE 6	1	FINAL	0



LEGEND:

- MWB-1 Monitoring Well
- 52.30 Groundwater Elevation
- Groundwater Flow Direction
- Equipotential Line

UNIT 2



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FIGURE 7
PLANT SCHOLZ POTENTIOMETRIC MAP
OF THE FLORIDIAN AQUIFER
APRIL 18, 2006

Southern Company Generation
Engineering and Construction Services
FOR

Gulf Power Company

SCALE	PROJECT	DRAWING NUMBER	SHEET	CON'D	T&V
AS SHOWN		FIGURE 7	1	FINAL	0



LEGEND:

MWB-1



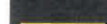
Monitoring Well

52.30

Groundwater Elevation



Groundwater Flow Direction



Equipotential Line

UNIT 2



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FIGURE 8
PLANT SCHOLZ POTENTIOMETRIC MAP
OF THE FLORIDIAN AQUIFER
APRIL 24, 2007

Southern Company Generation
Engineering and Construction Services
FOR

Gulf Power Company

SCALE	PROJECT	DRAWING NUMBER	SHEET	CON TO	REV
AS SHOWN		FIGURE 8	1	FINAL	0



LEGEND:

MWB-1



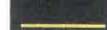
Monitoring Well

52.30

Groundwater Elevation



Groundwater Flow Direction



Equipotential Line

UNIT 2



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FIGURE 9
PLANT SCHOLZ POTENTIOMETRIC MAP
OF THE FLORIDIAN AQUIFER
MAY 21, 2008

Southern Company Generation
Engineering and Construction Services
FOR

Gulf Power Company

SCALE	FIGURE	DATE/REVISION	SHEET	CONTR	REV
AS SHOWN		FIGURE 9	1	FINAL	0



LEGEND:

- MWB-1 Monitoring Well
- 52.30 Groundwater Elevation
- Groundwater Flow Direction
- Equipotential Line



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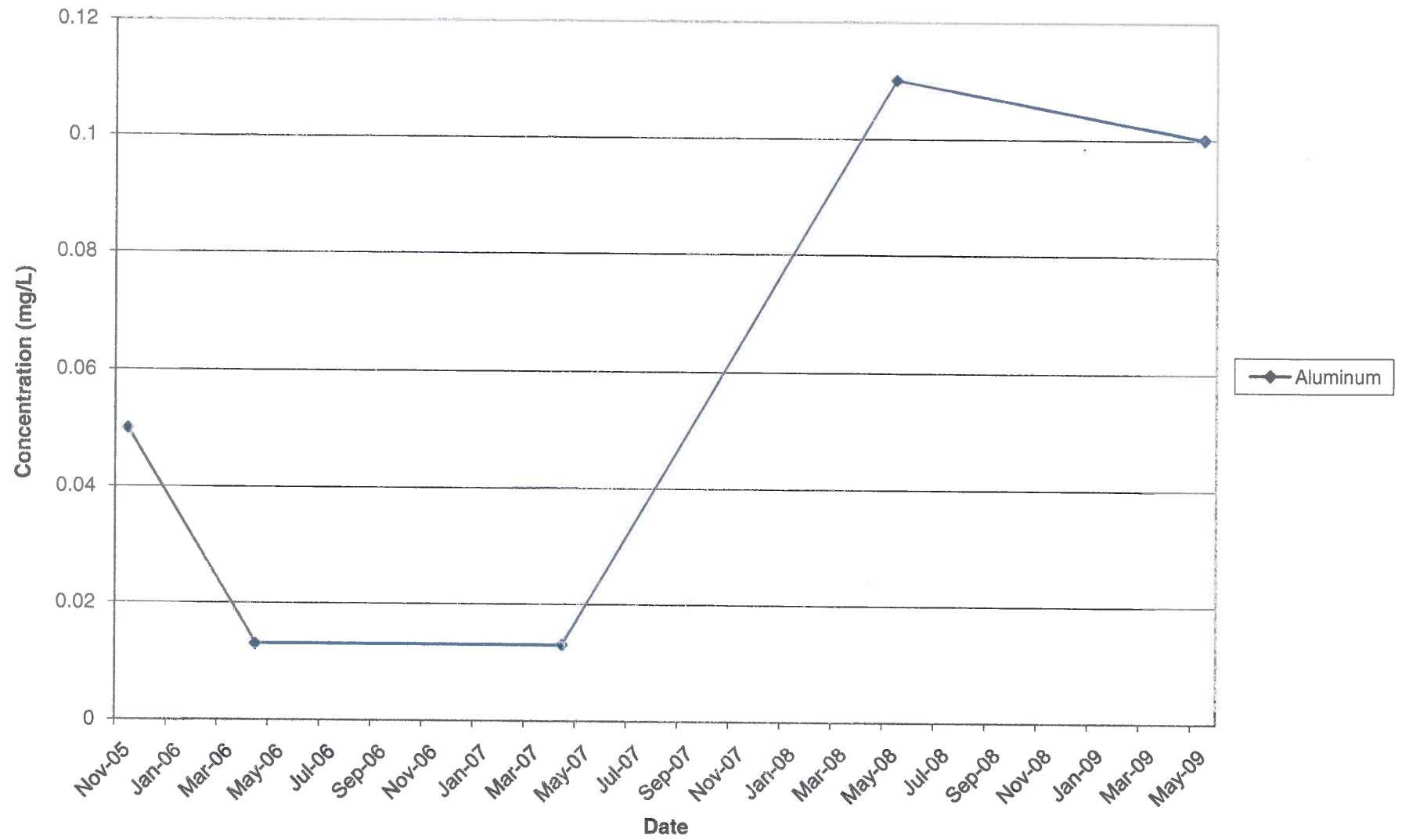
FIGURE 10
PLANT SCHOLZ POTENTIOMETRIC MAP
OF THE FLORIDIAN AQUIFER
MAY 20, 2008

Southern Company Generation
Engineering and Construction Services
FOR

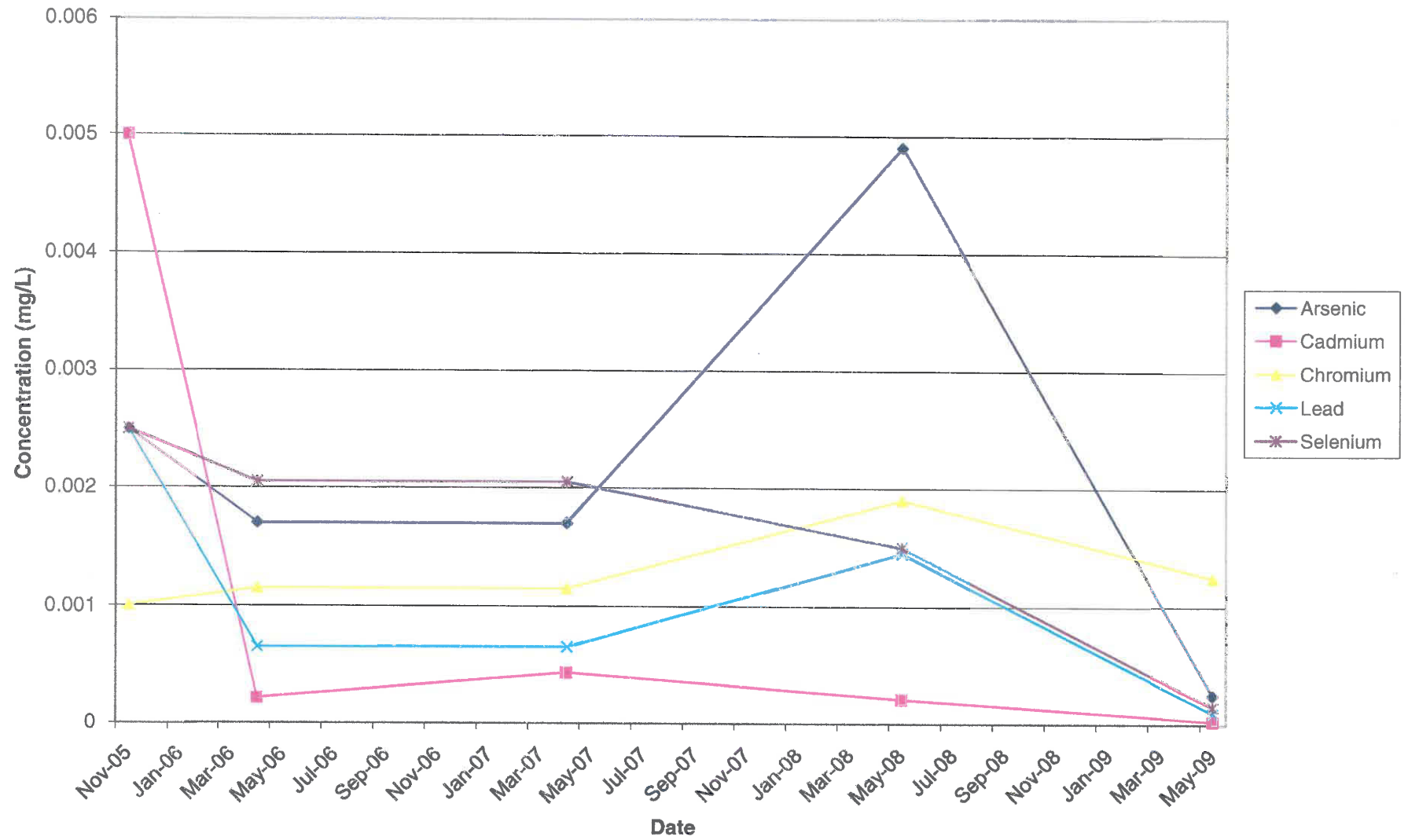
Gulf Power Company

SCALE	PROJECT	DRAWING NUMBER	SHEET	CON'D	REV
AS SHOWN		FIGURE 10	1	FINAL	0

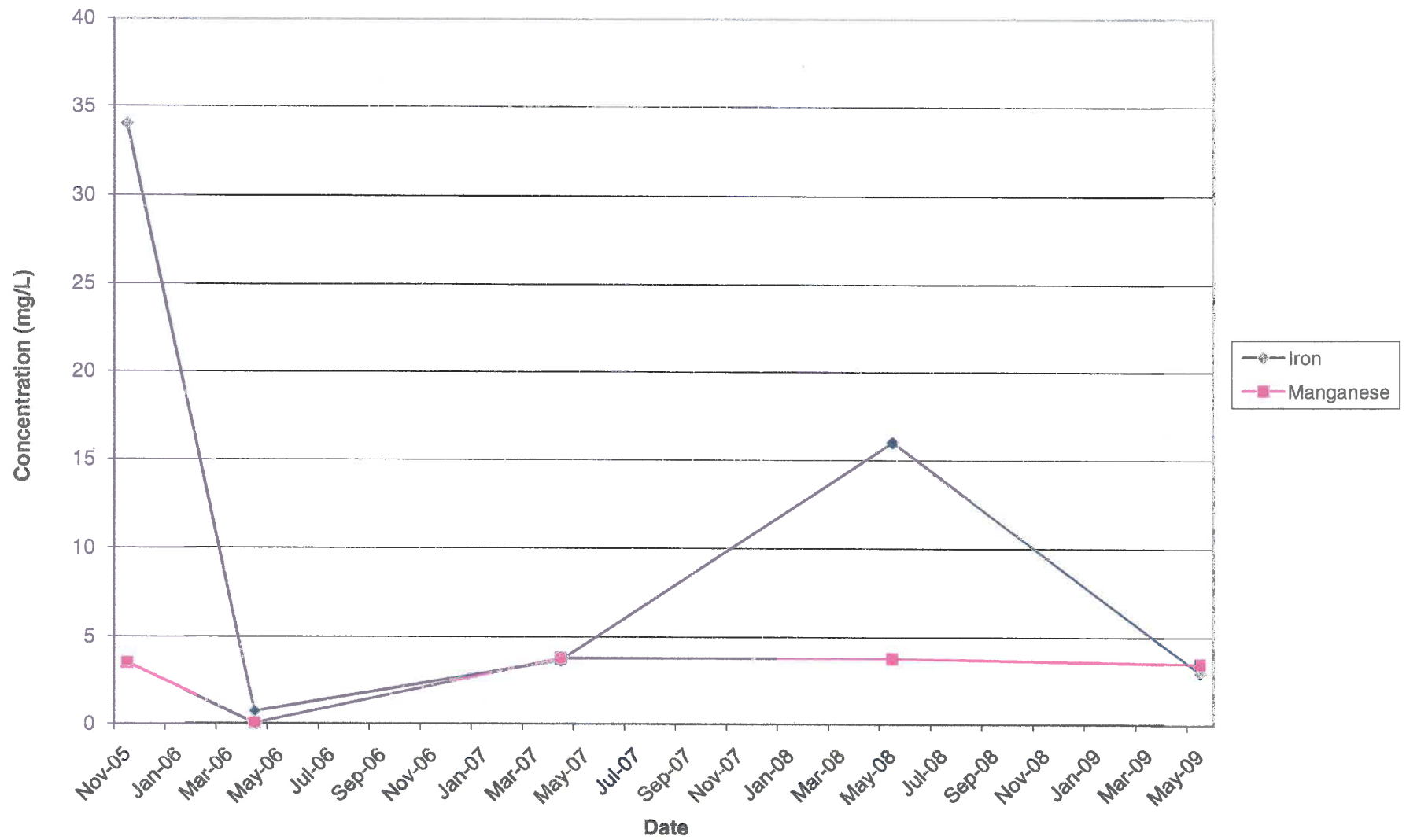
MWC-2031 Metals (Part 1)



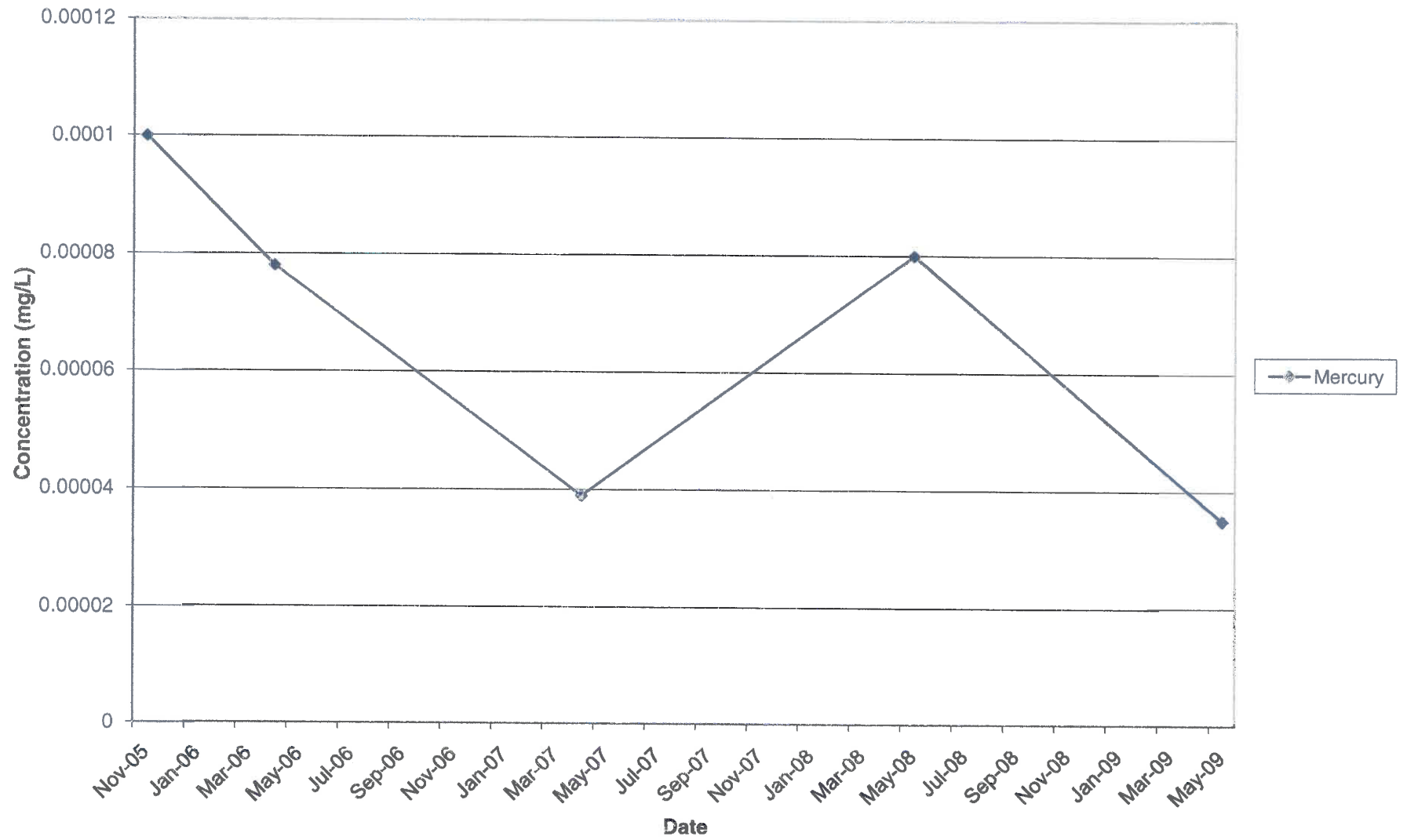
MWC-2031 Metals (Part 2)



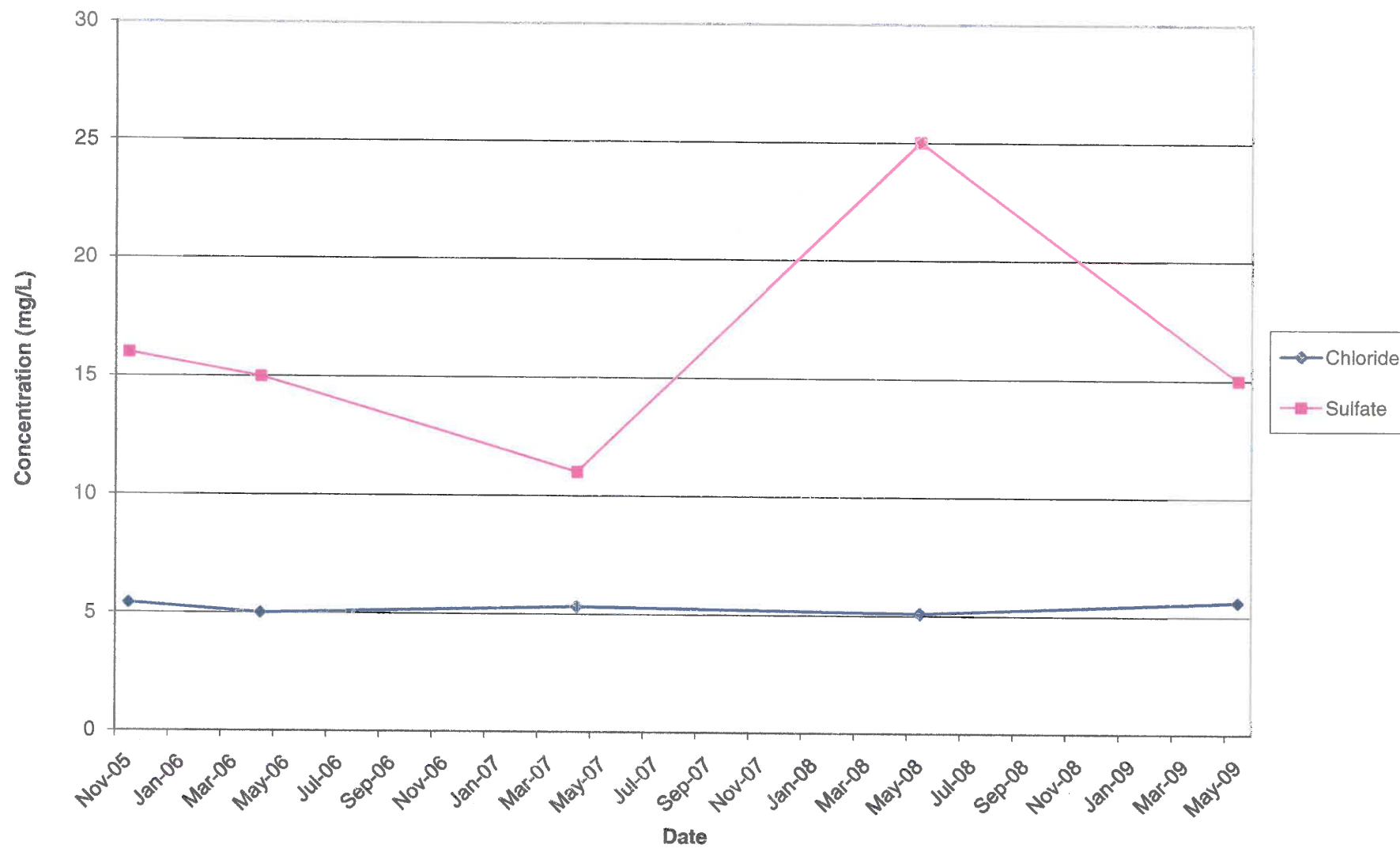
MWC-2031 Metals (Part 3)



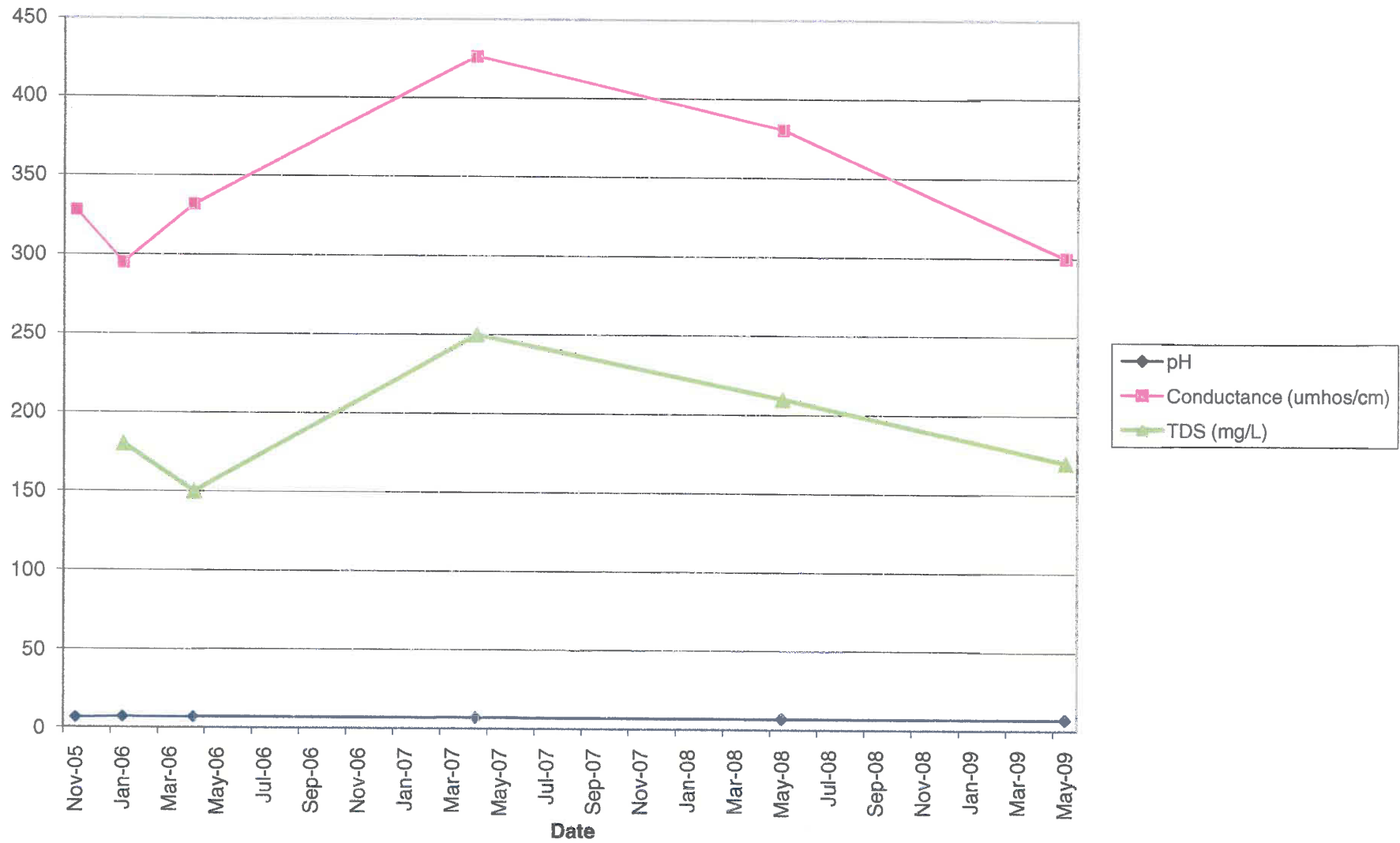
MWC-2031 Metals (Part 4)



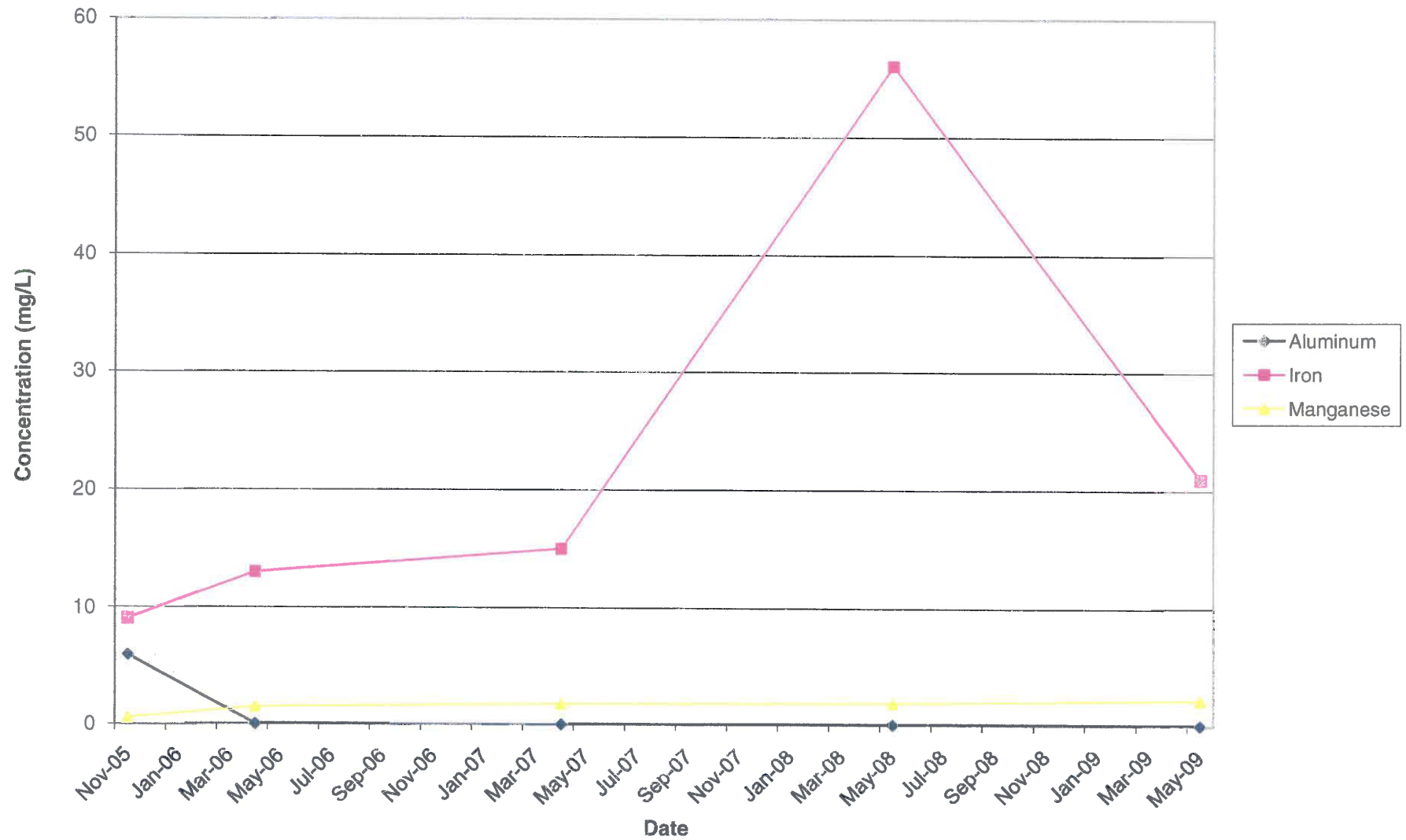
MWC-2031 General Chemistry



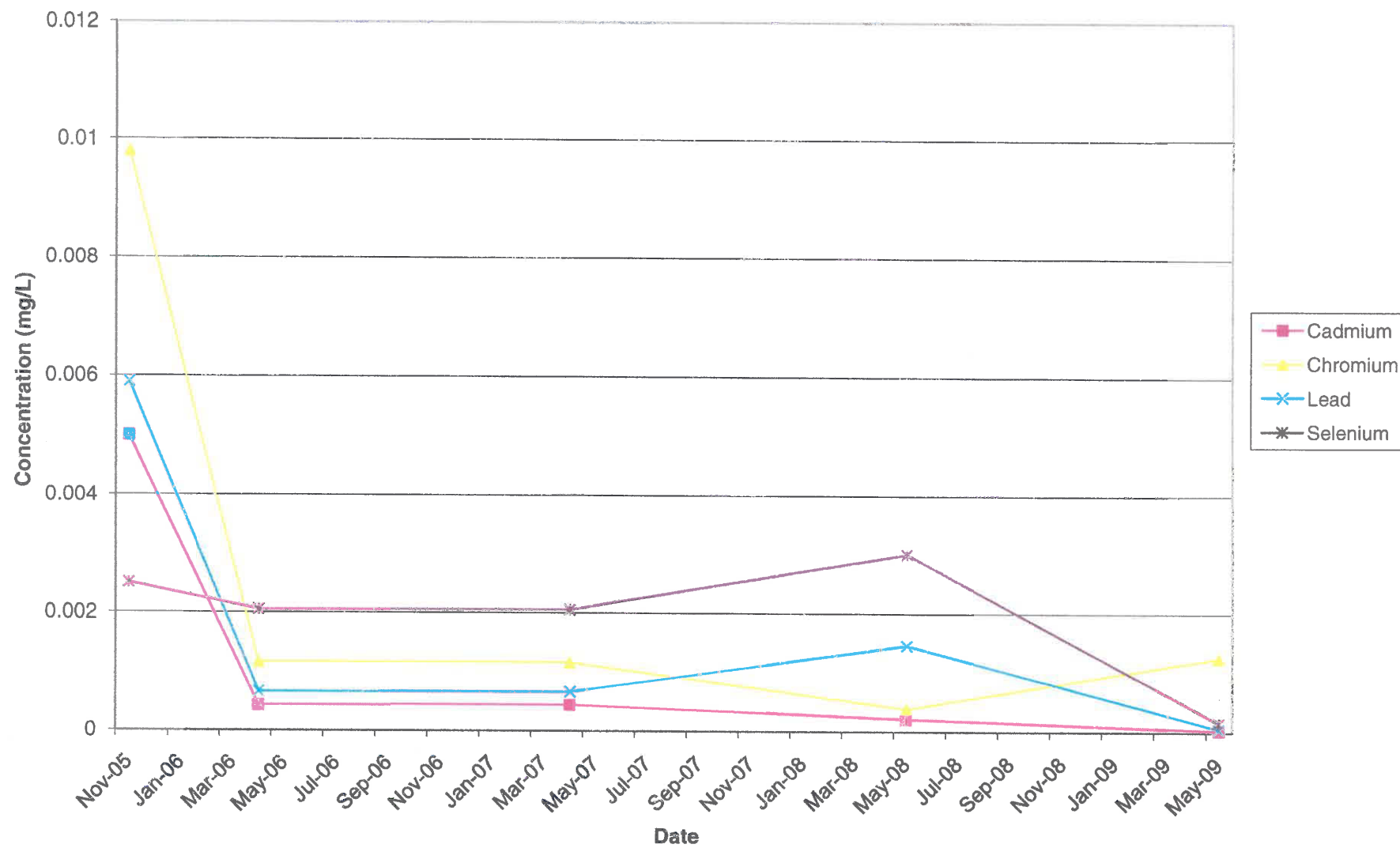
MWC-2031 Field Parameters



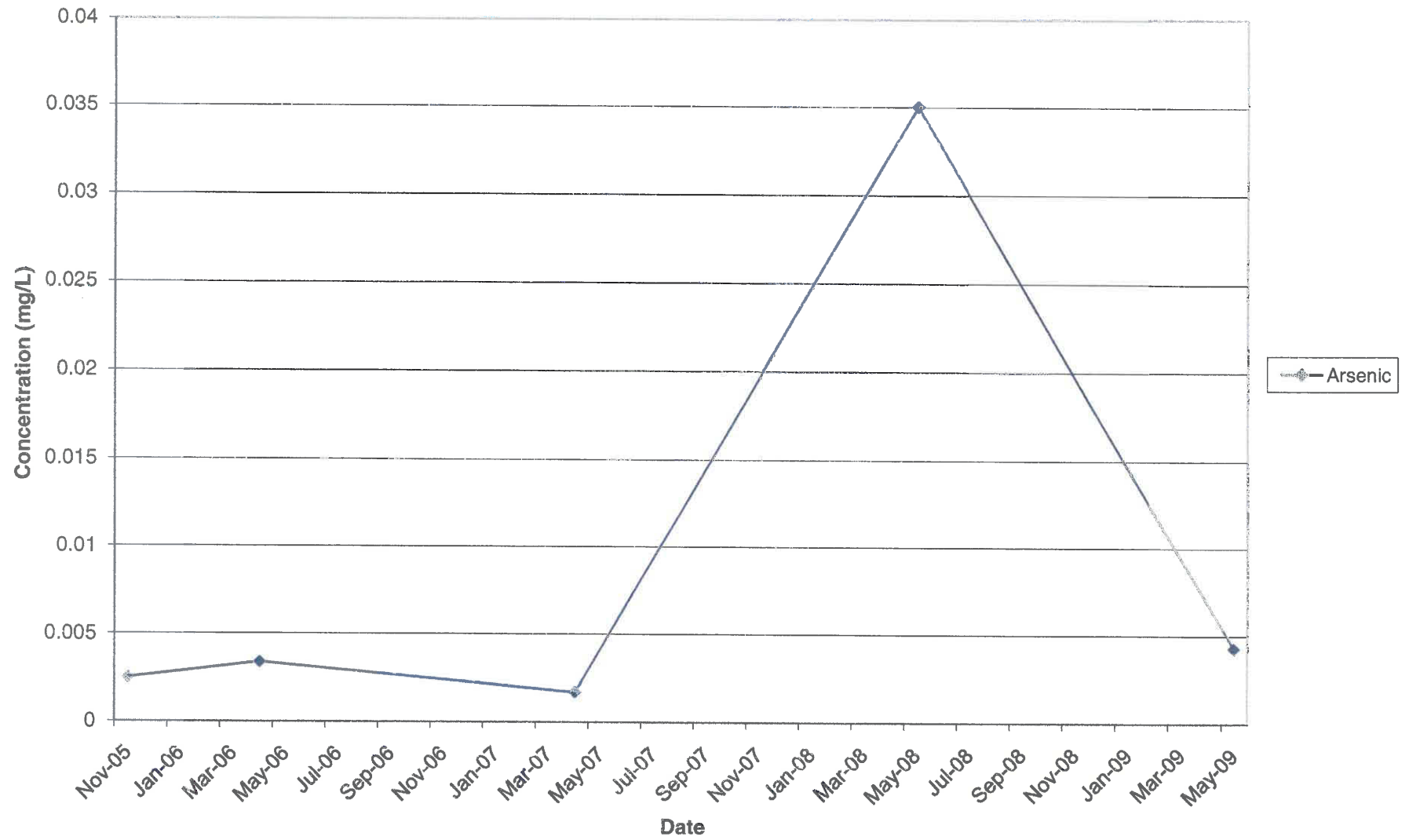
MWI-204 Metals (Part 1)



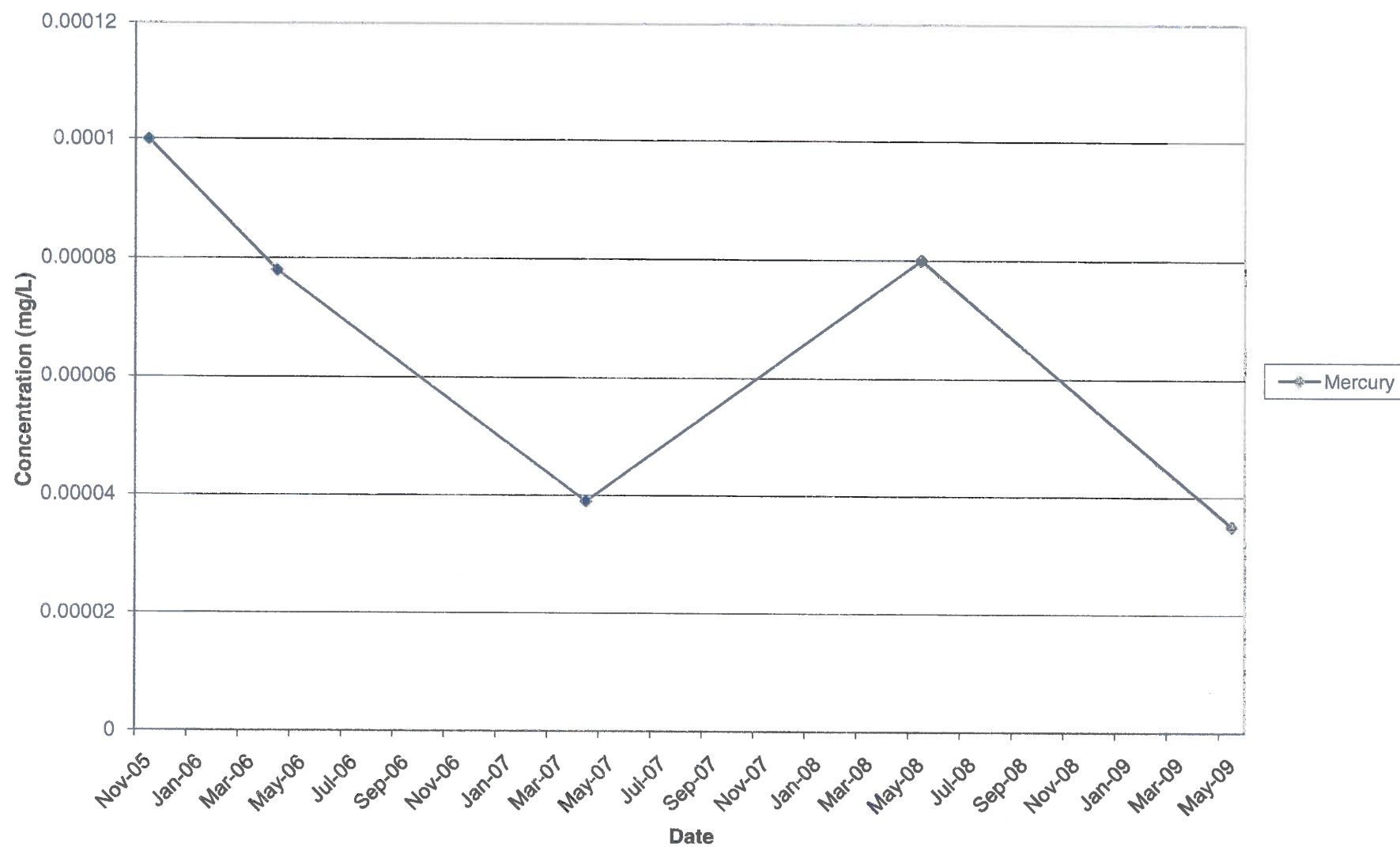
MWI-204 Metals (Part 2)



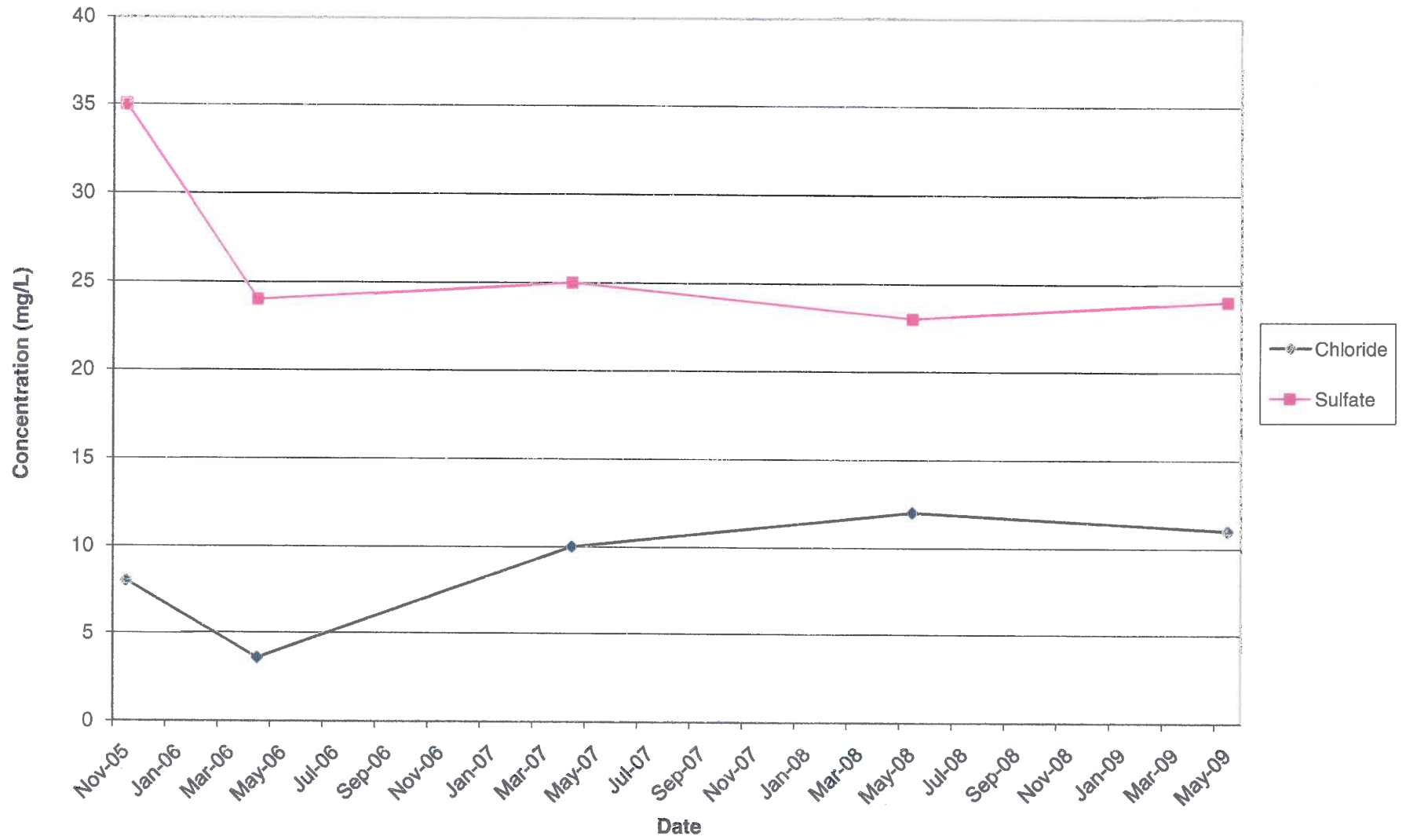
MWI-204 Metals (Part 3)



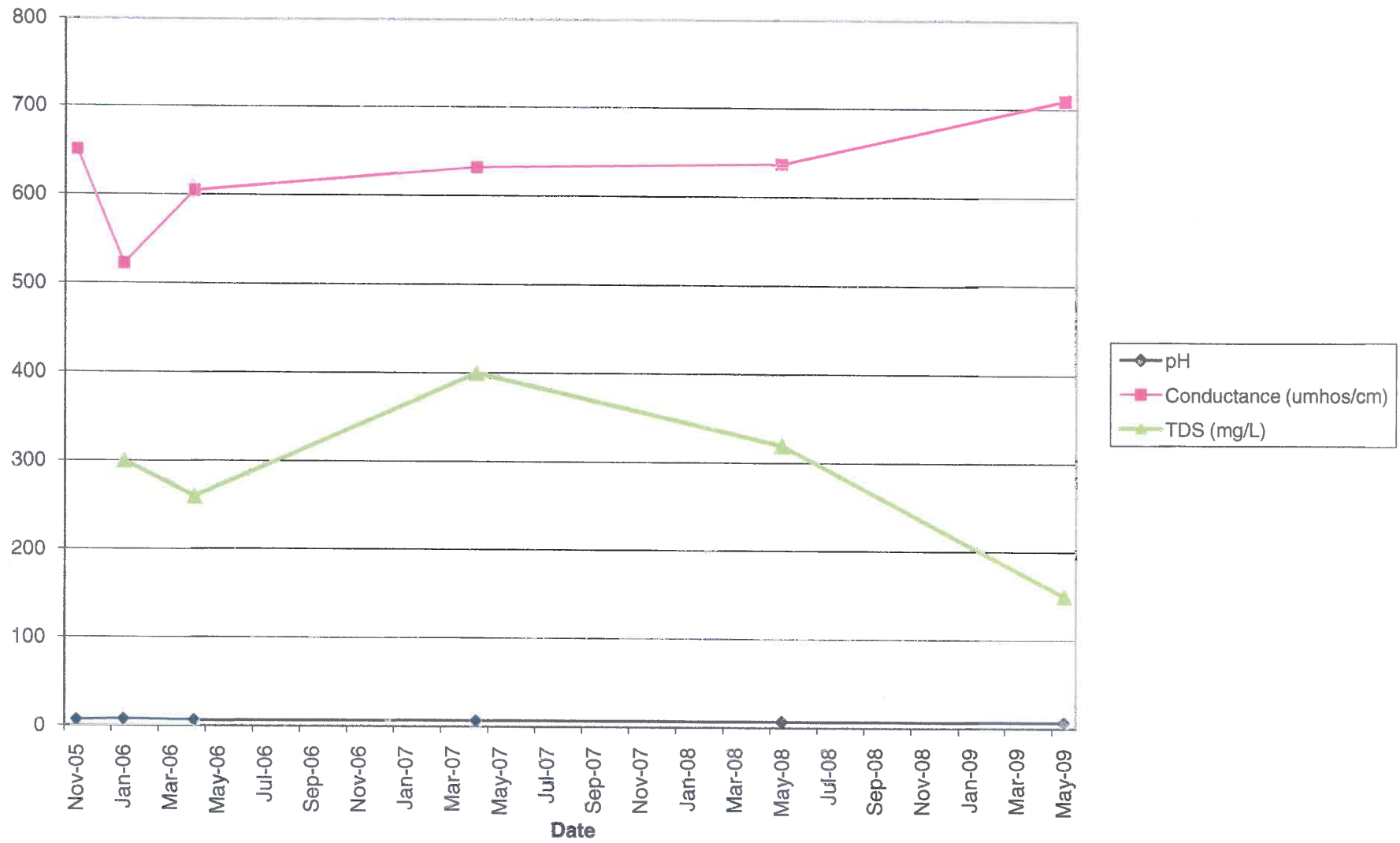
MWI-204 Metals (Part 4)



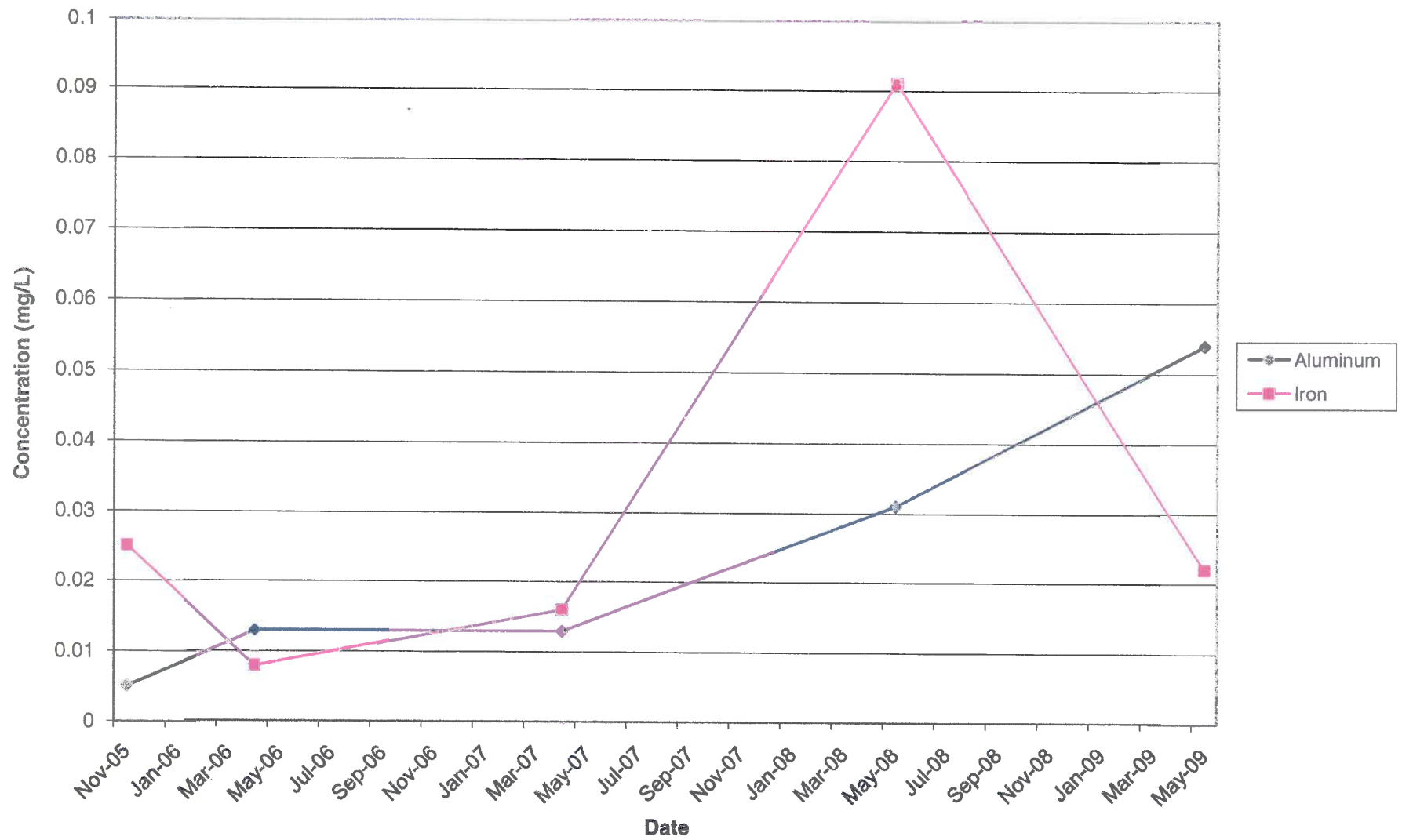
MWI-204 General Chemistry



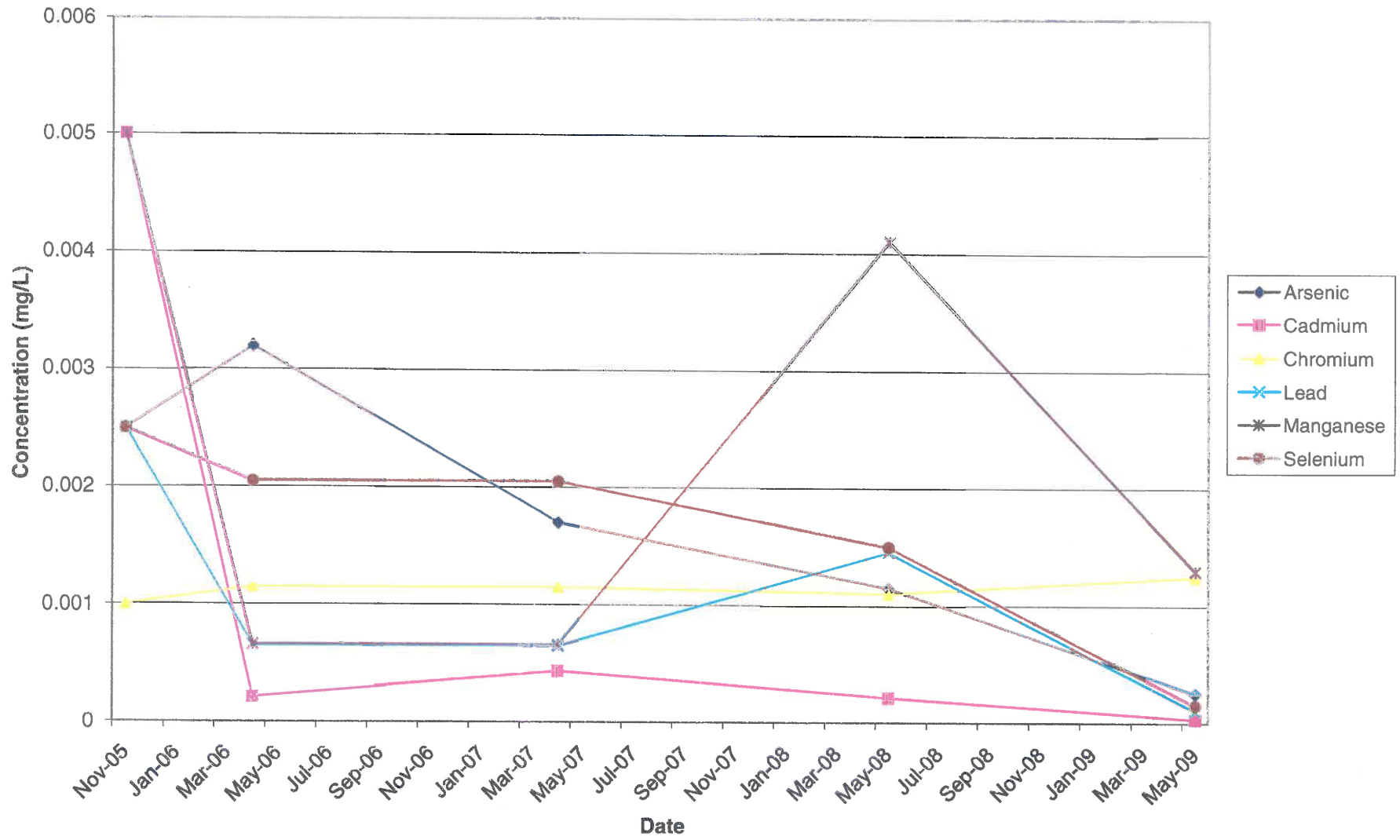
MWI-204 Field Parameters



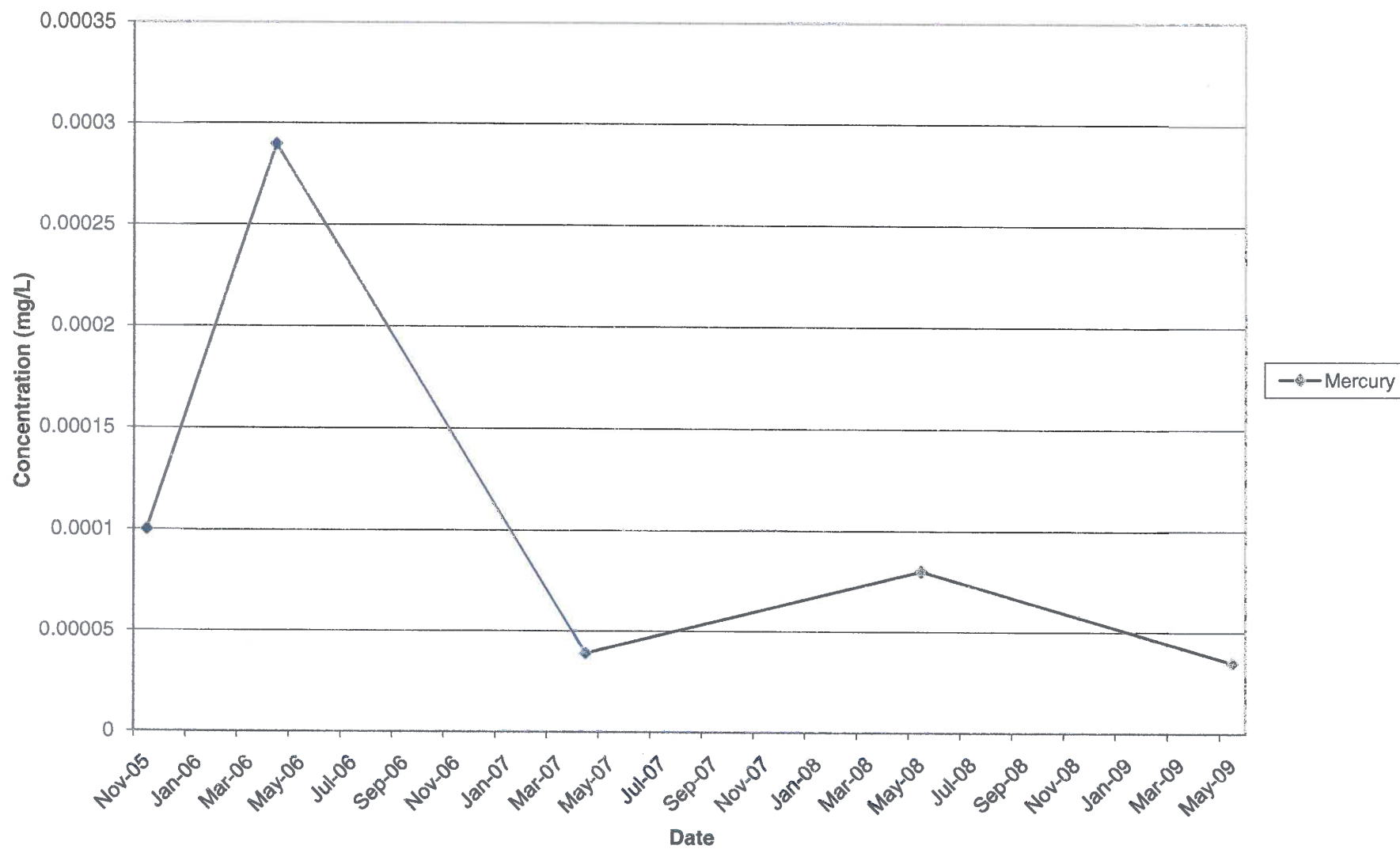
MWB-2051 Metals (Part 1)



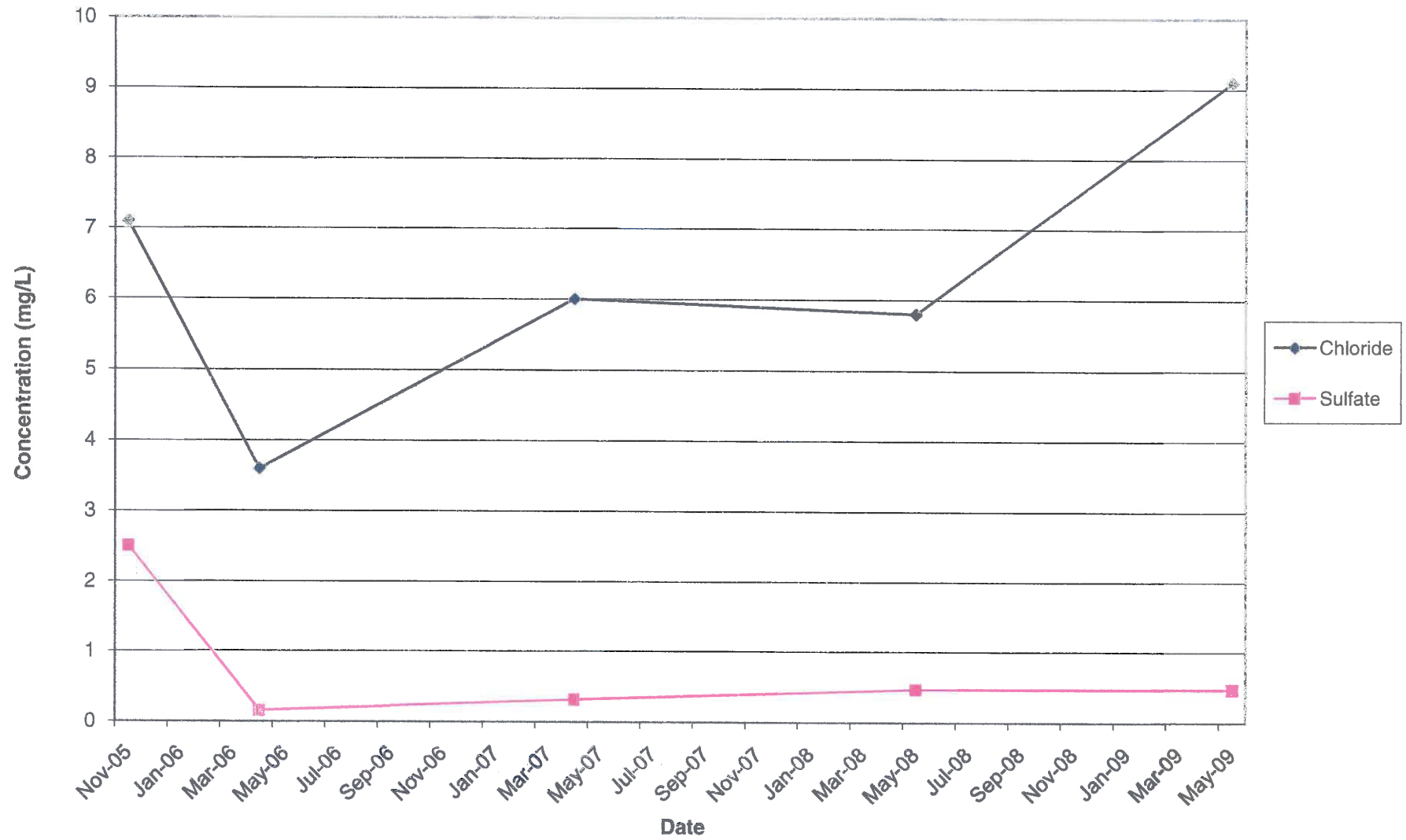
MWB-2051 Metals (Part 2)



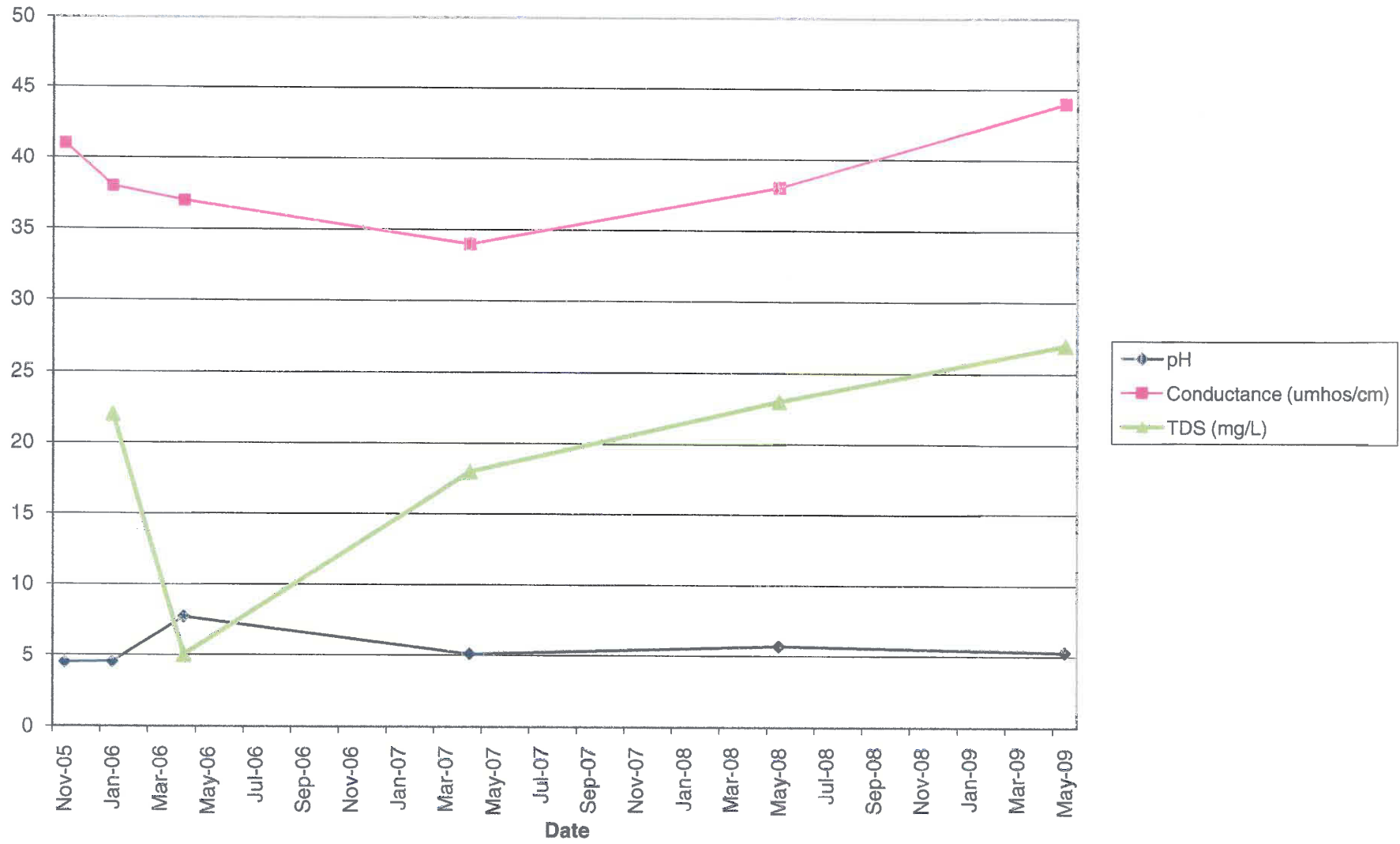
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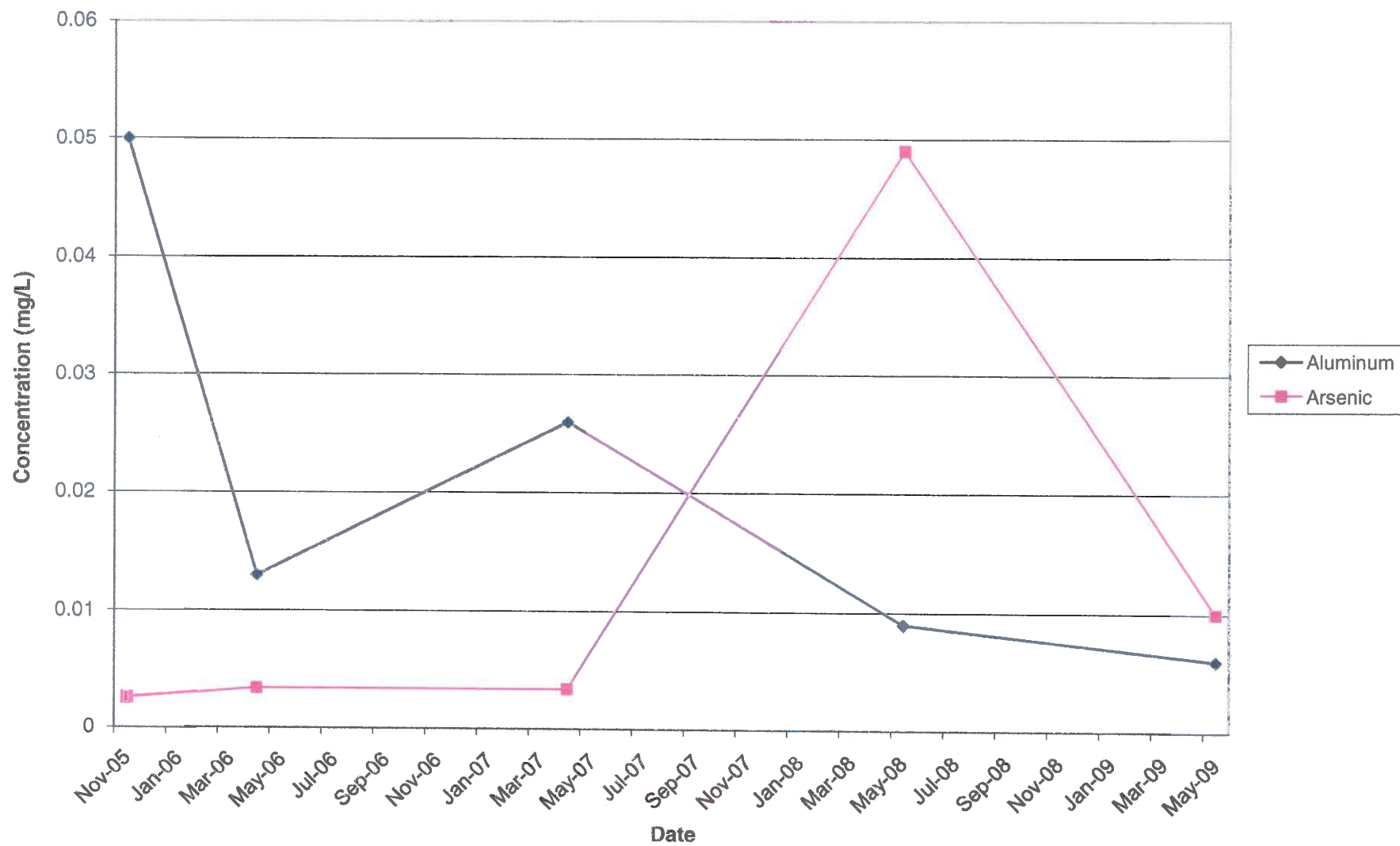
MWB-2051 General Chemistry



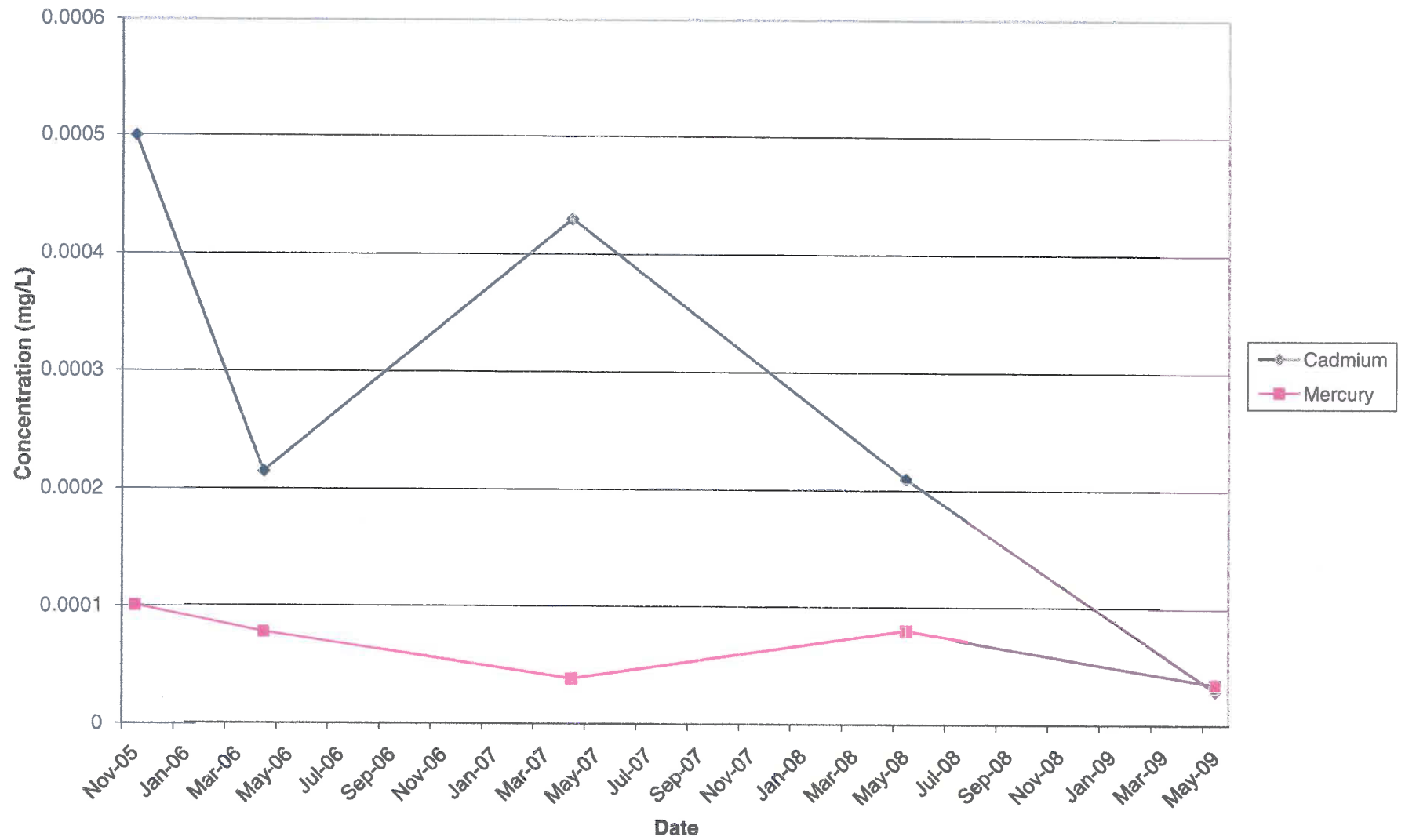
MWB-2051 Field Parameters



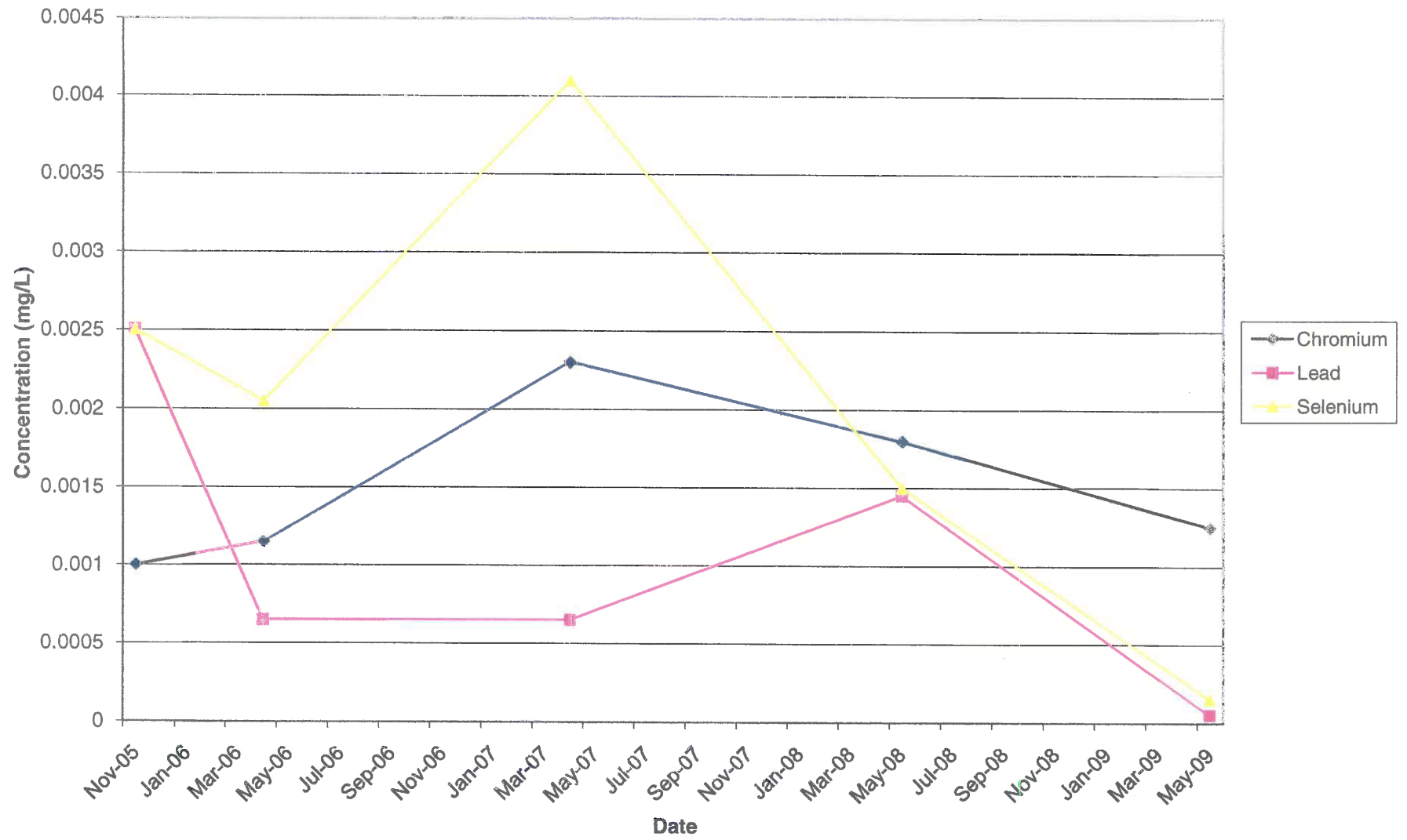
MWC-203 Metals (Part 1)



MWC-203 Metals (Part 2)



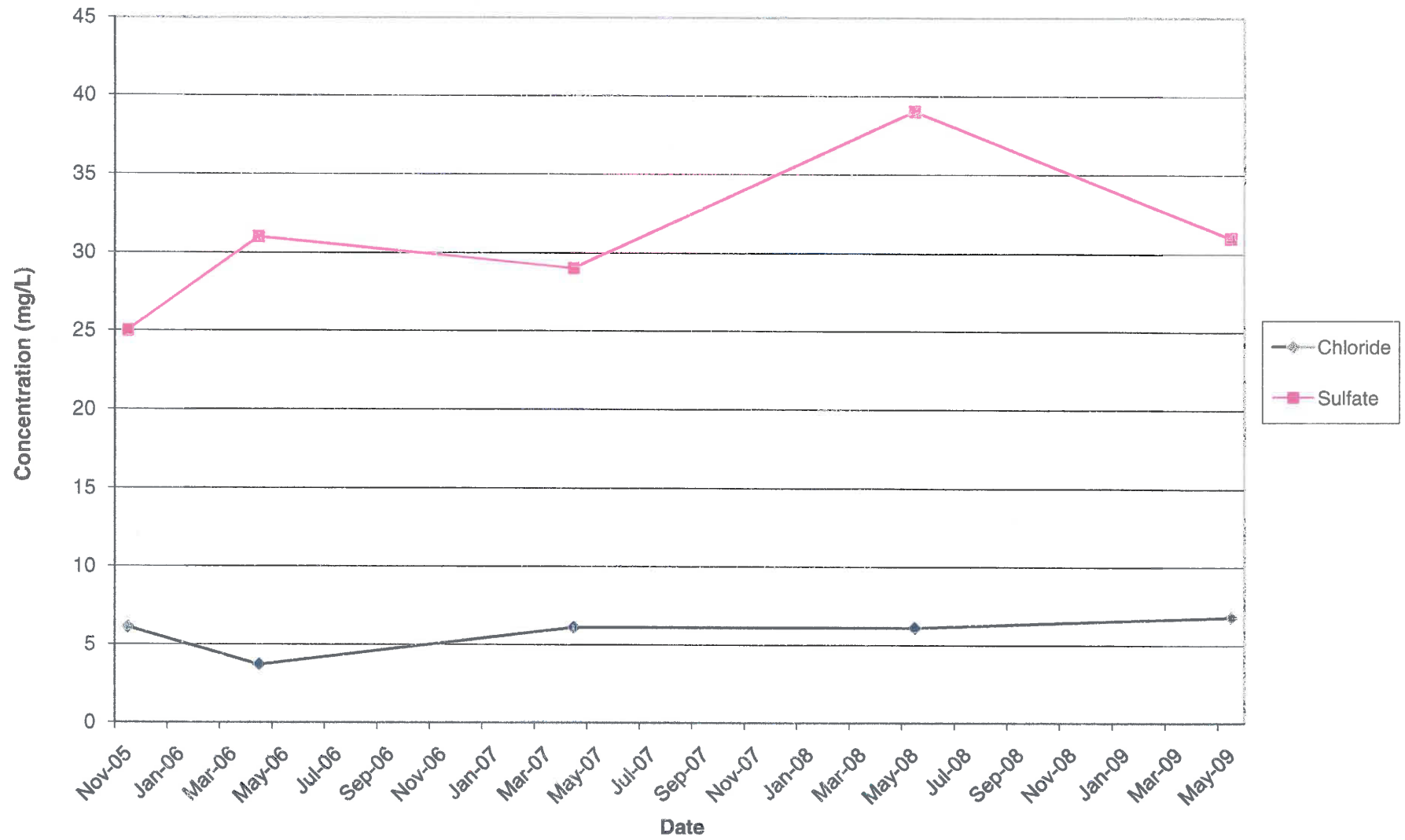
MWC-203 Metals (Part 3)



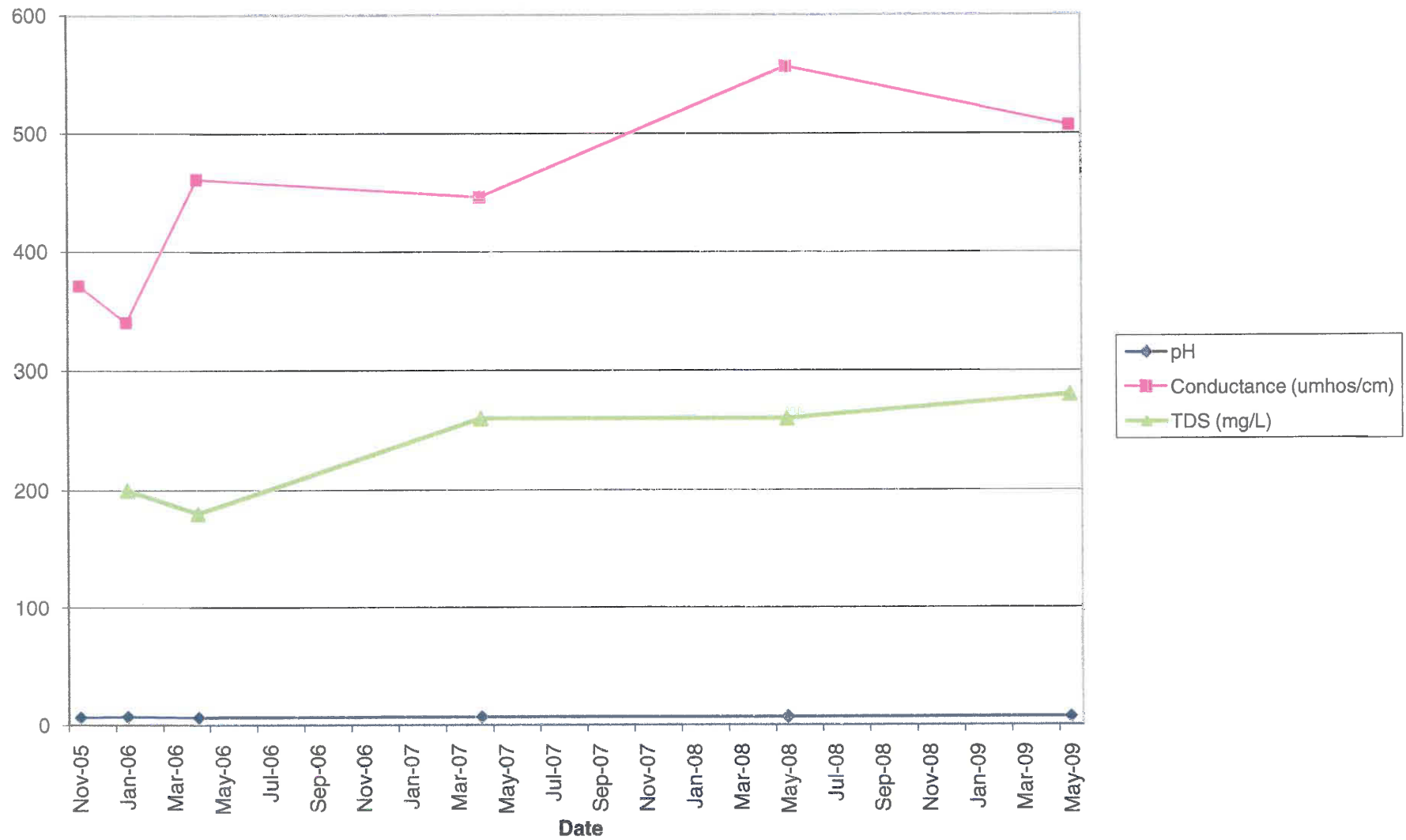
MWC-203 Metals (Part 4)



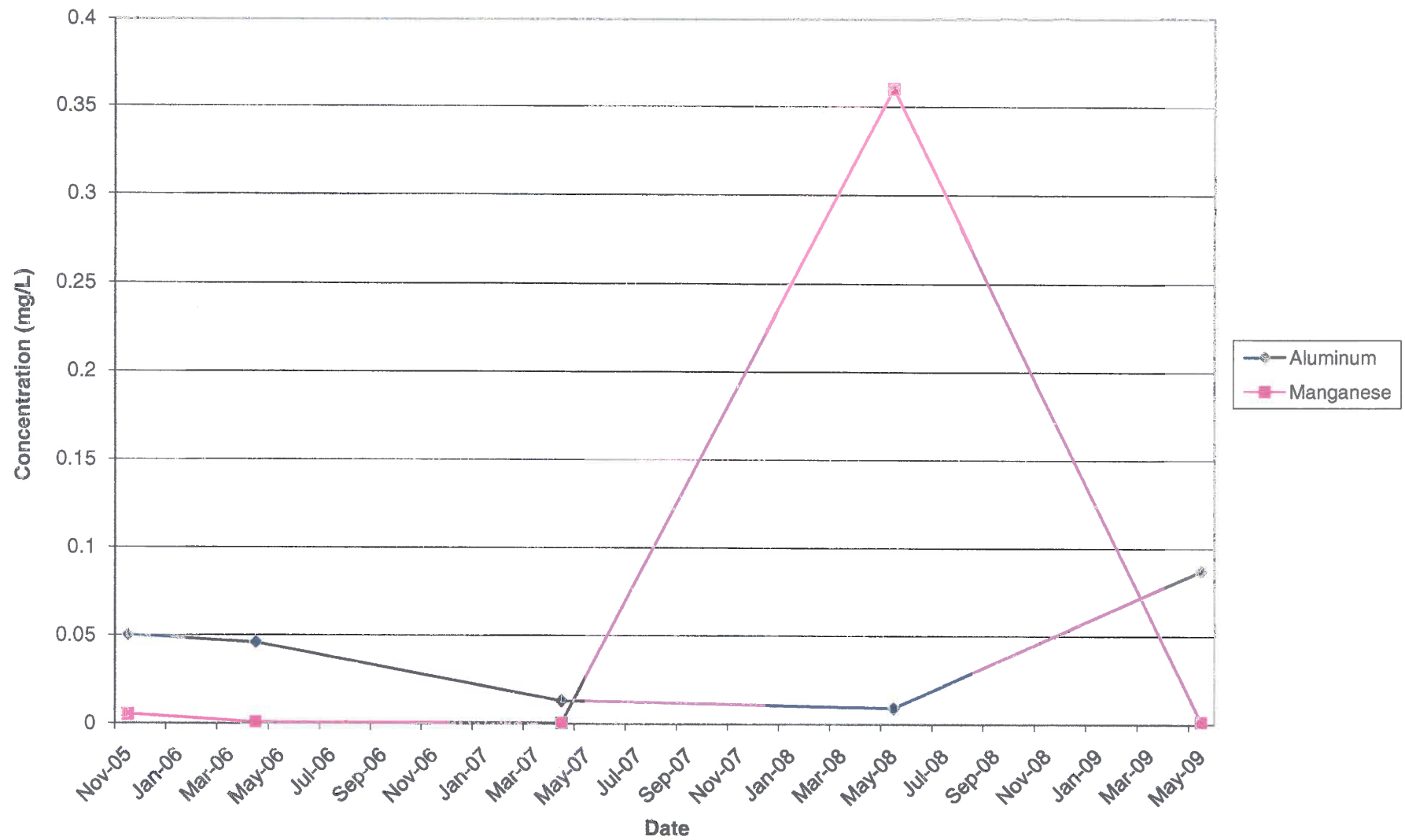
MWC-203 General Chemistry



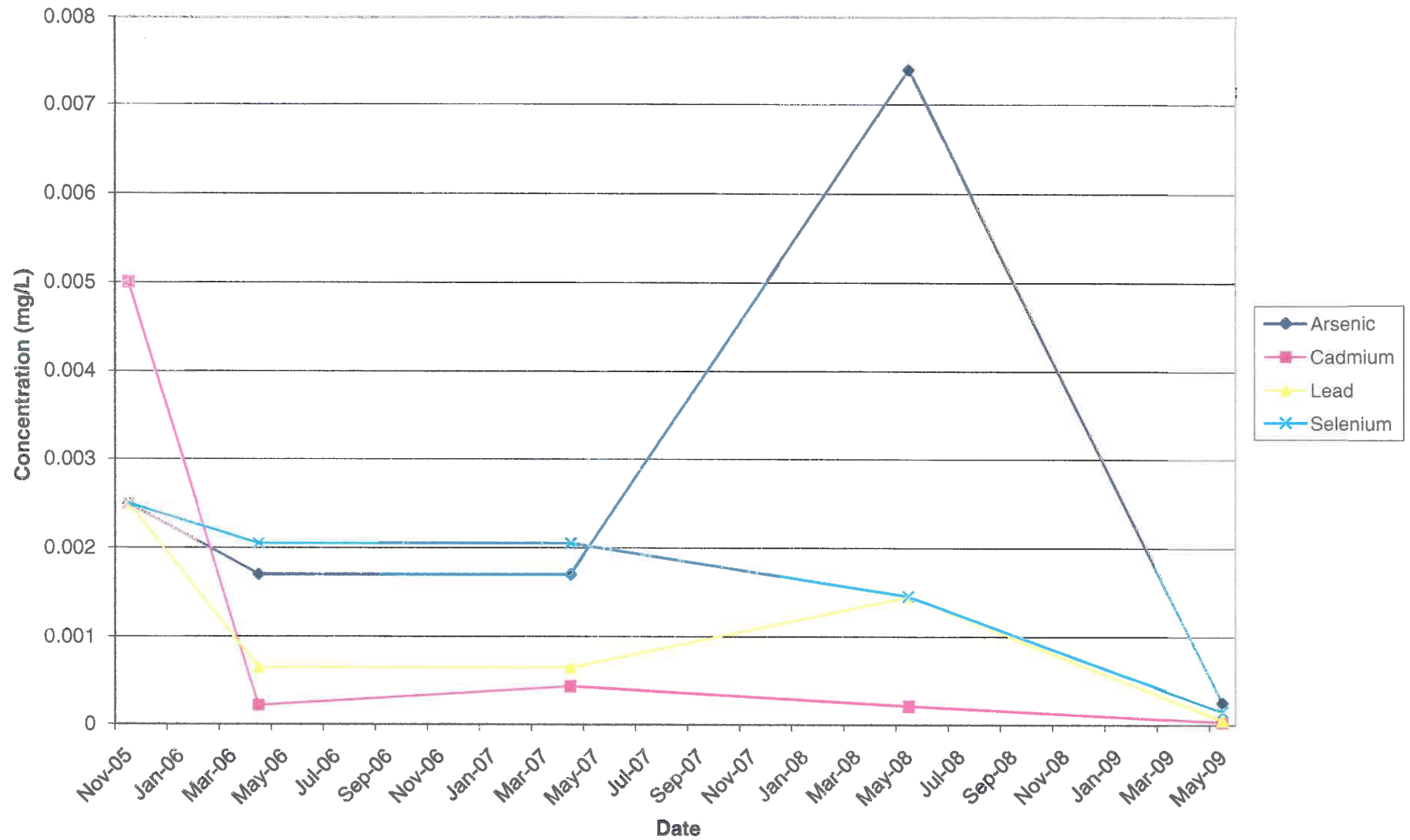
MWC-203 Field Parameters



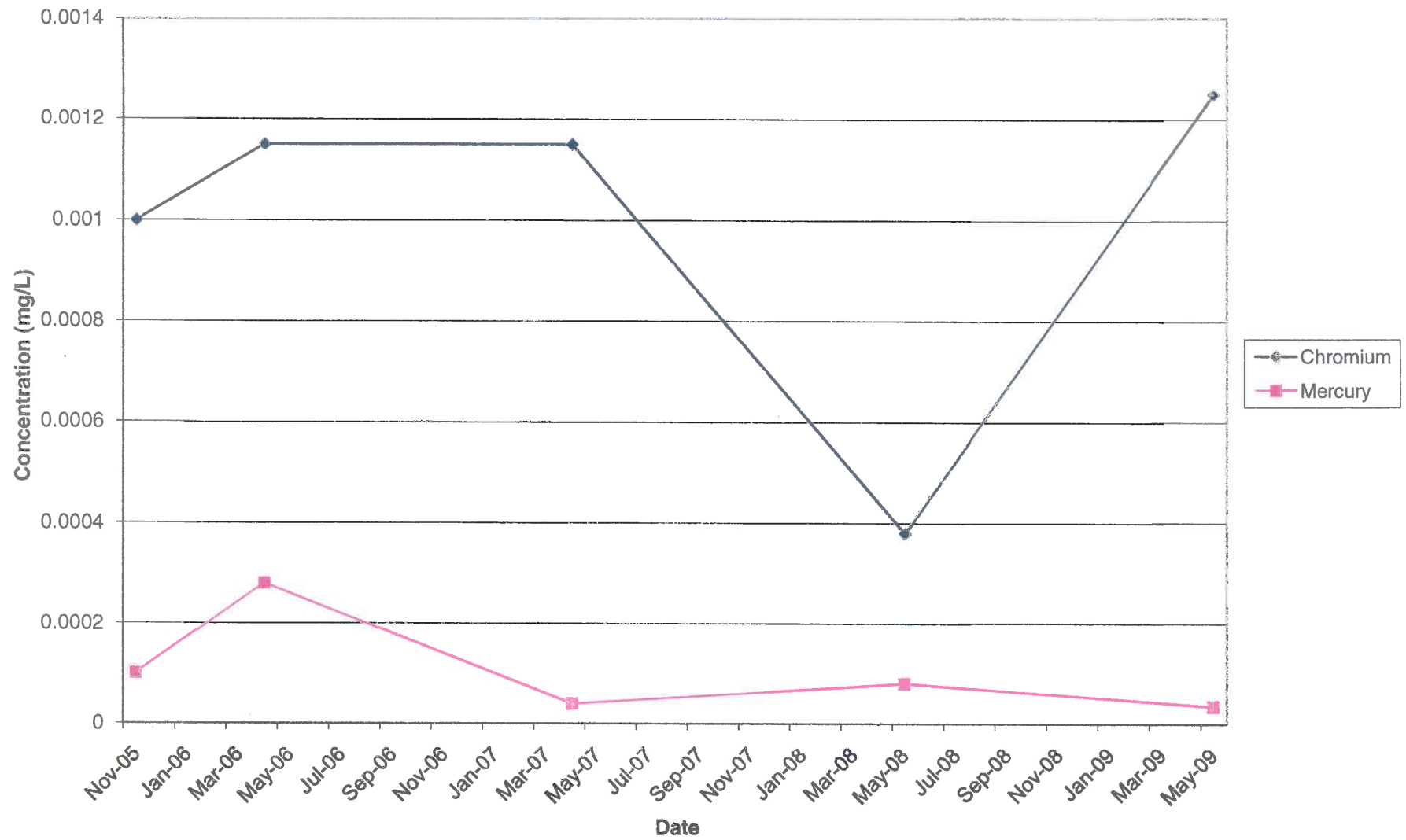
MWC-204 Metals (Part 1)



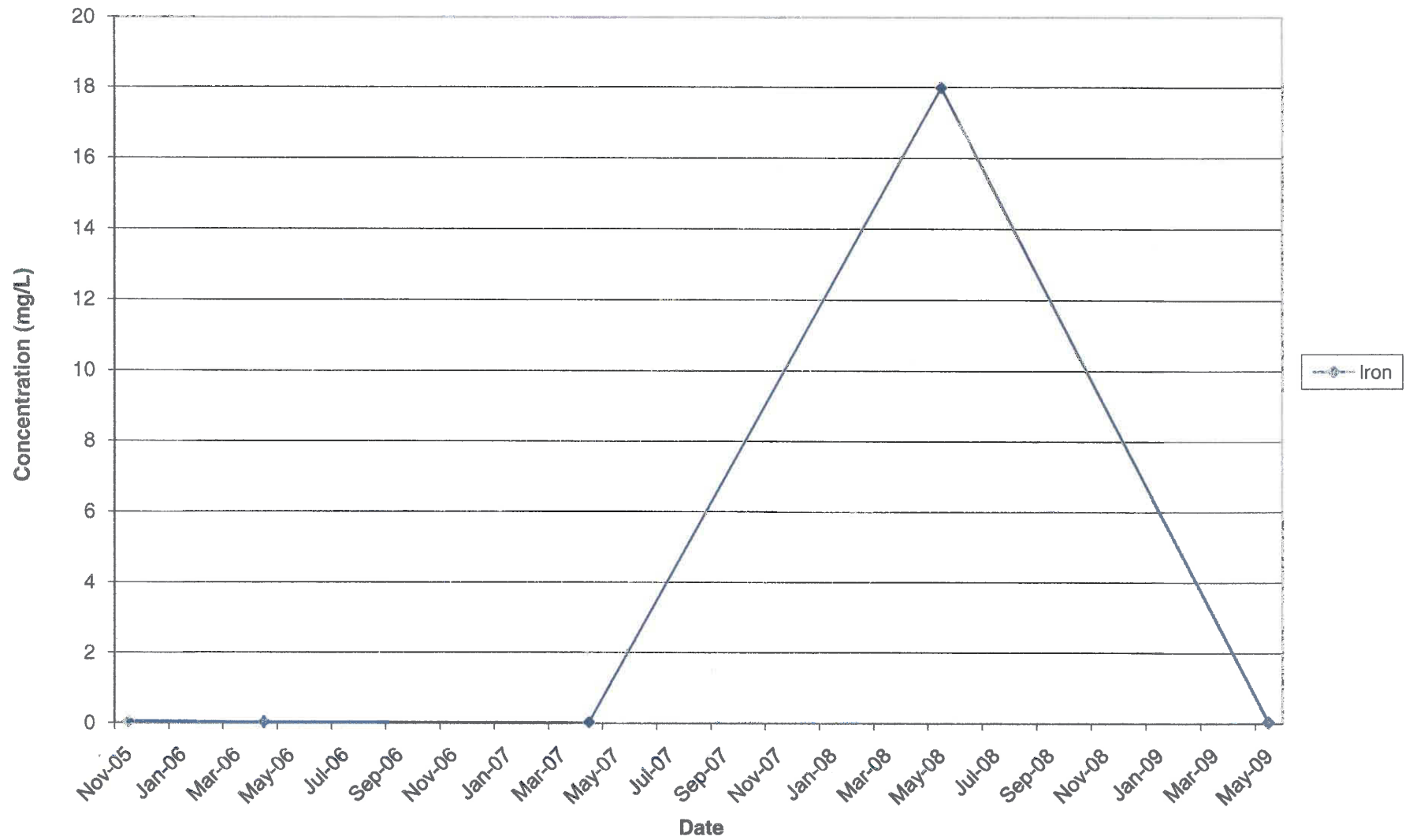
MWC-204 Metals (Part 2)



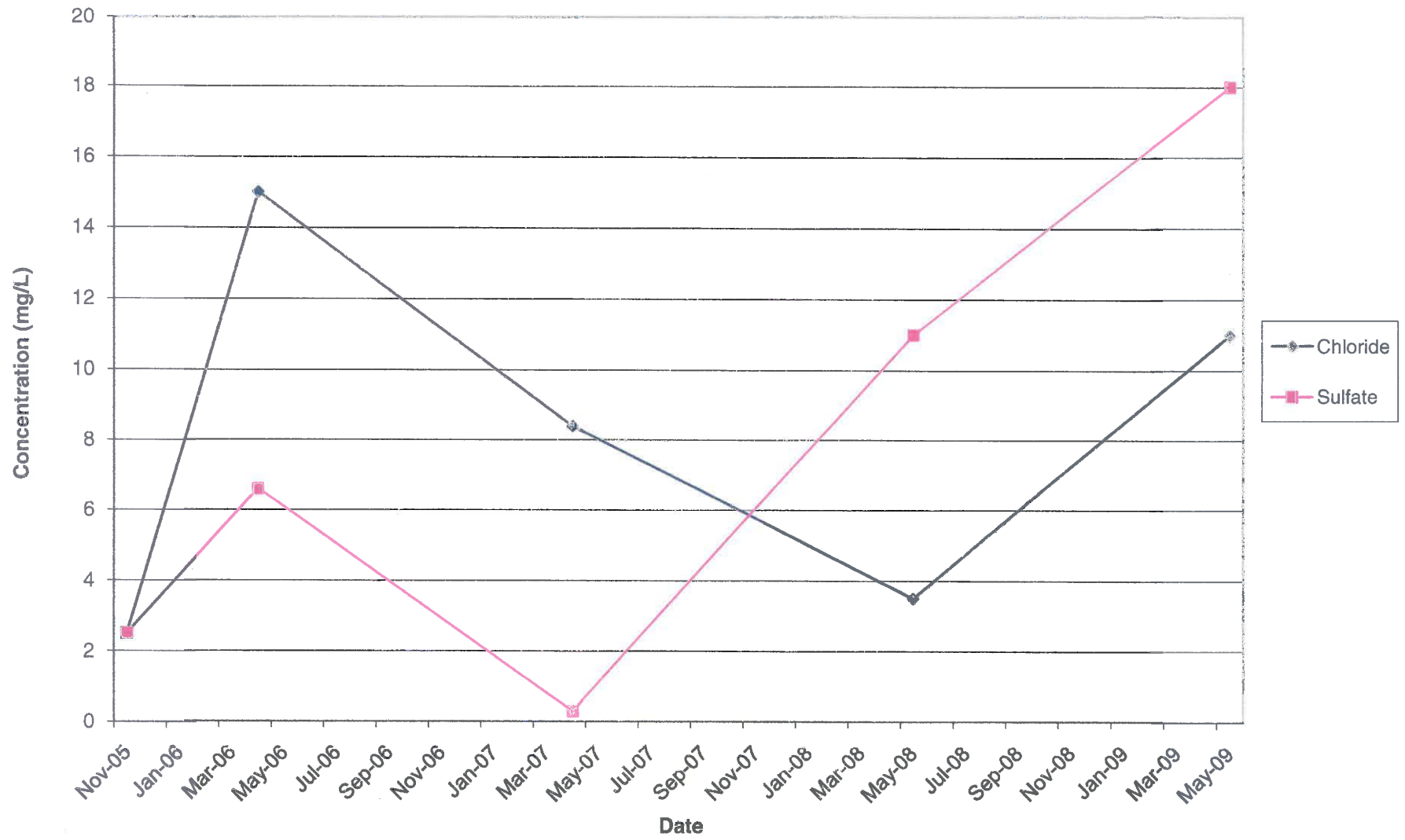
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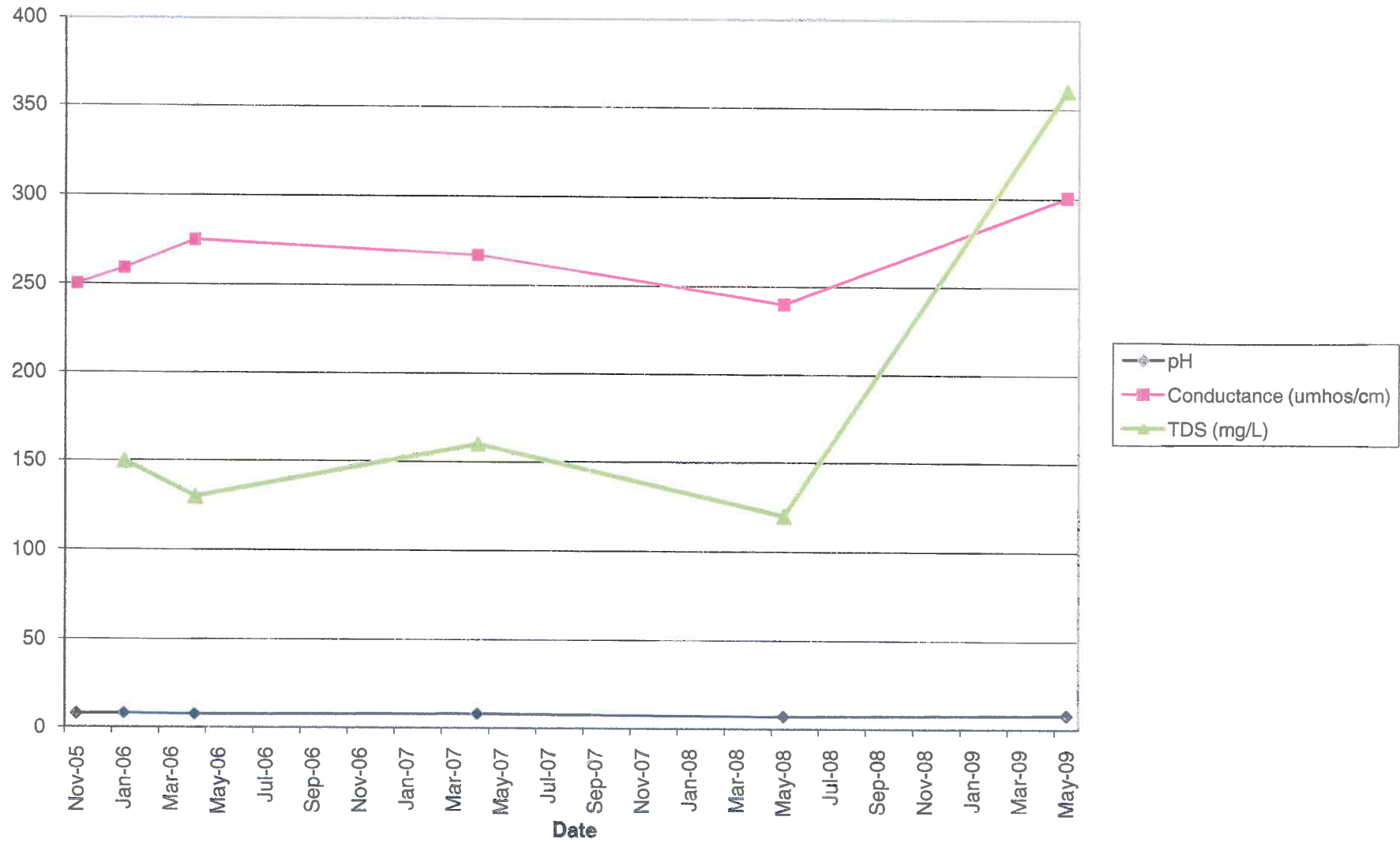
MWC-204 Metals (Part 4)



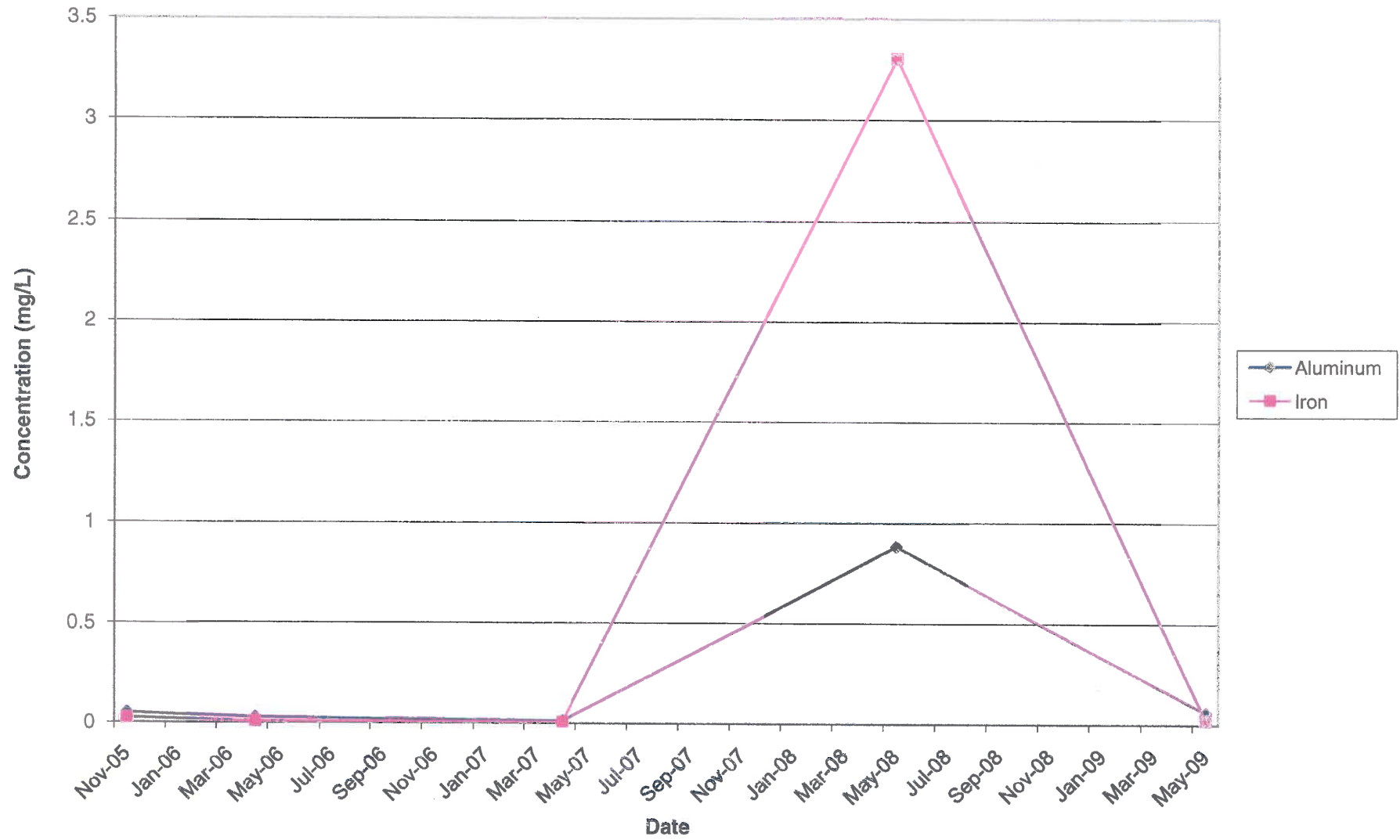
MWC-204 General Chemistry



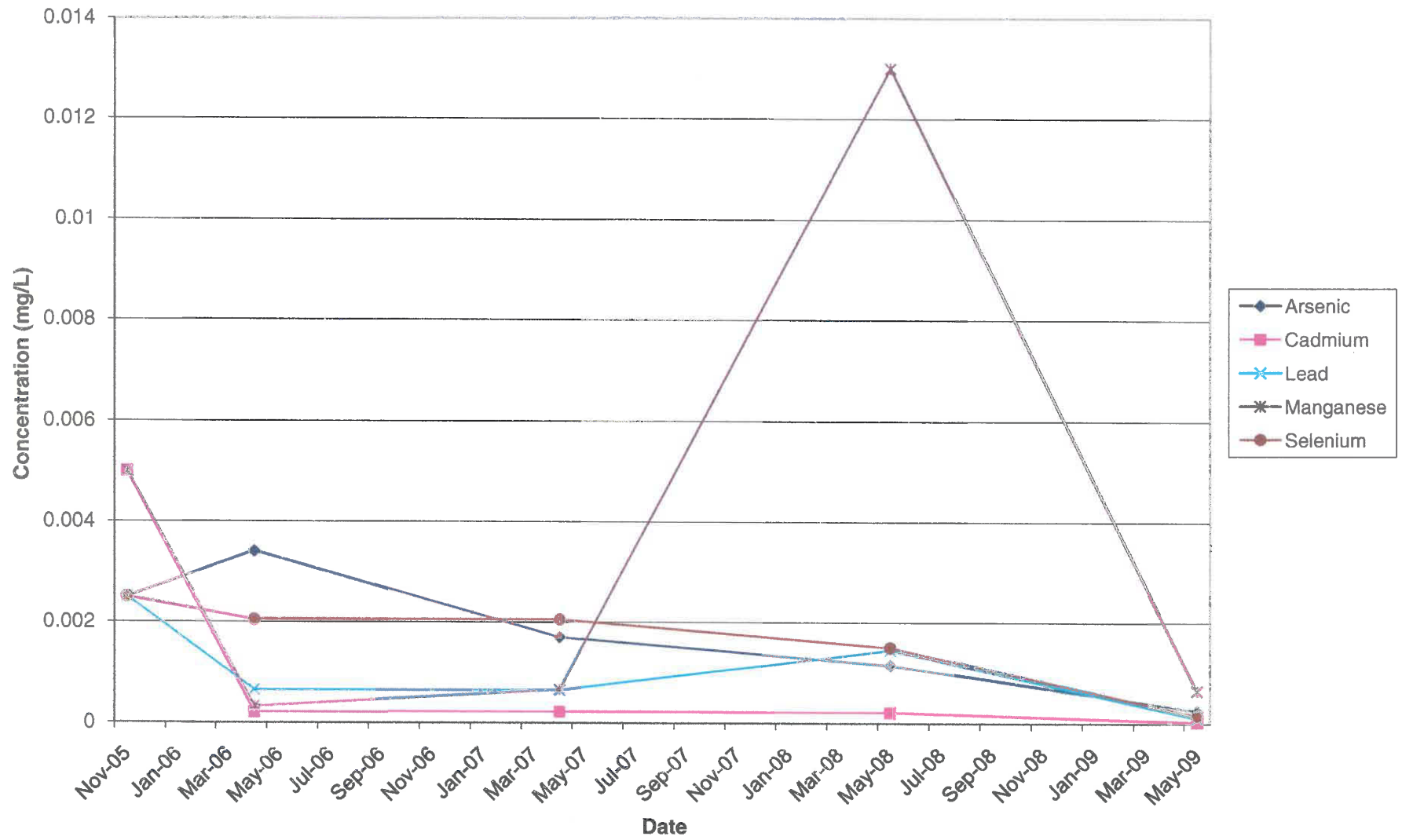
MWC-204 Field Parameters



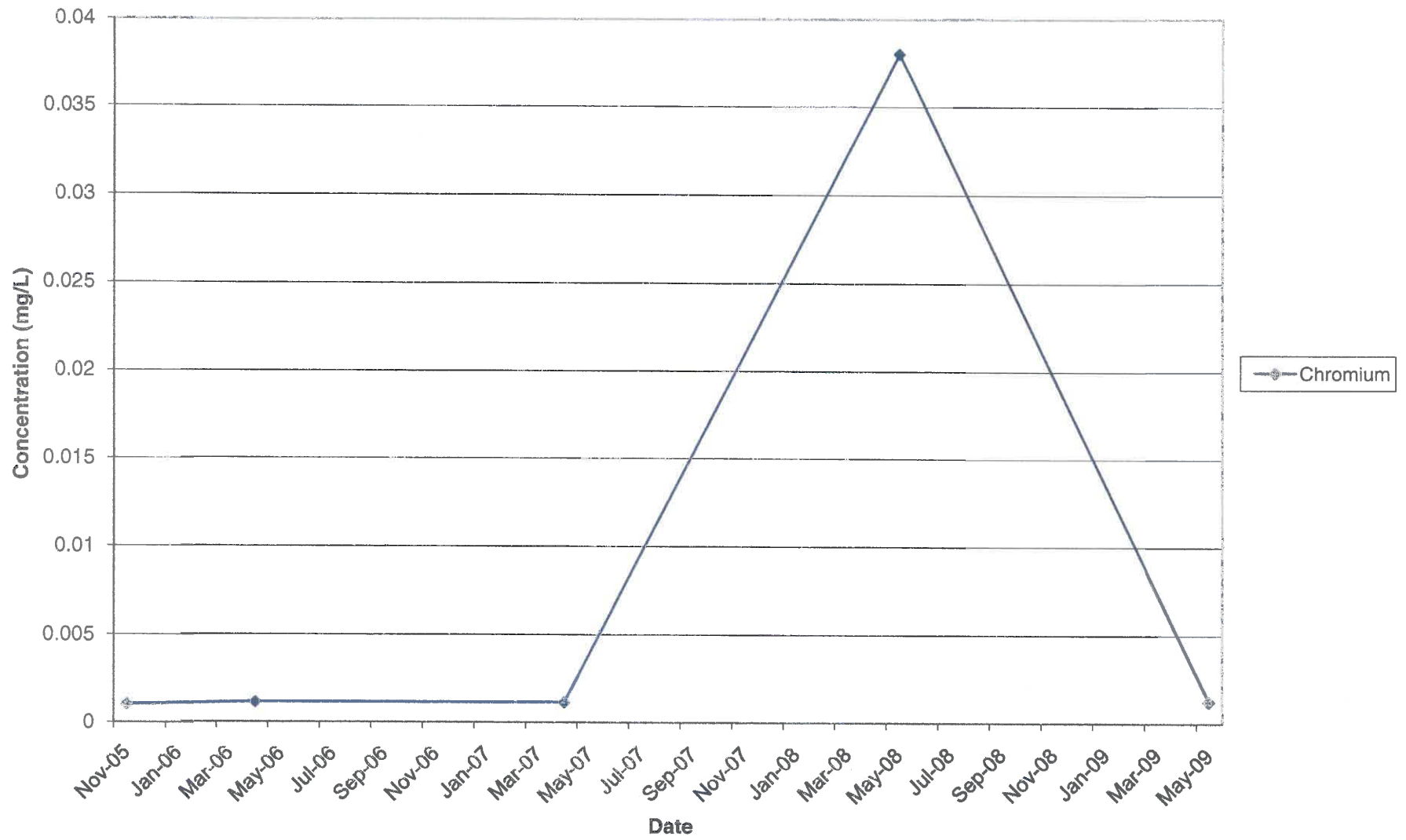
MWB-205 Metals (Part 1)



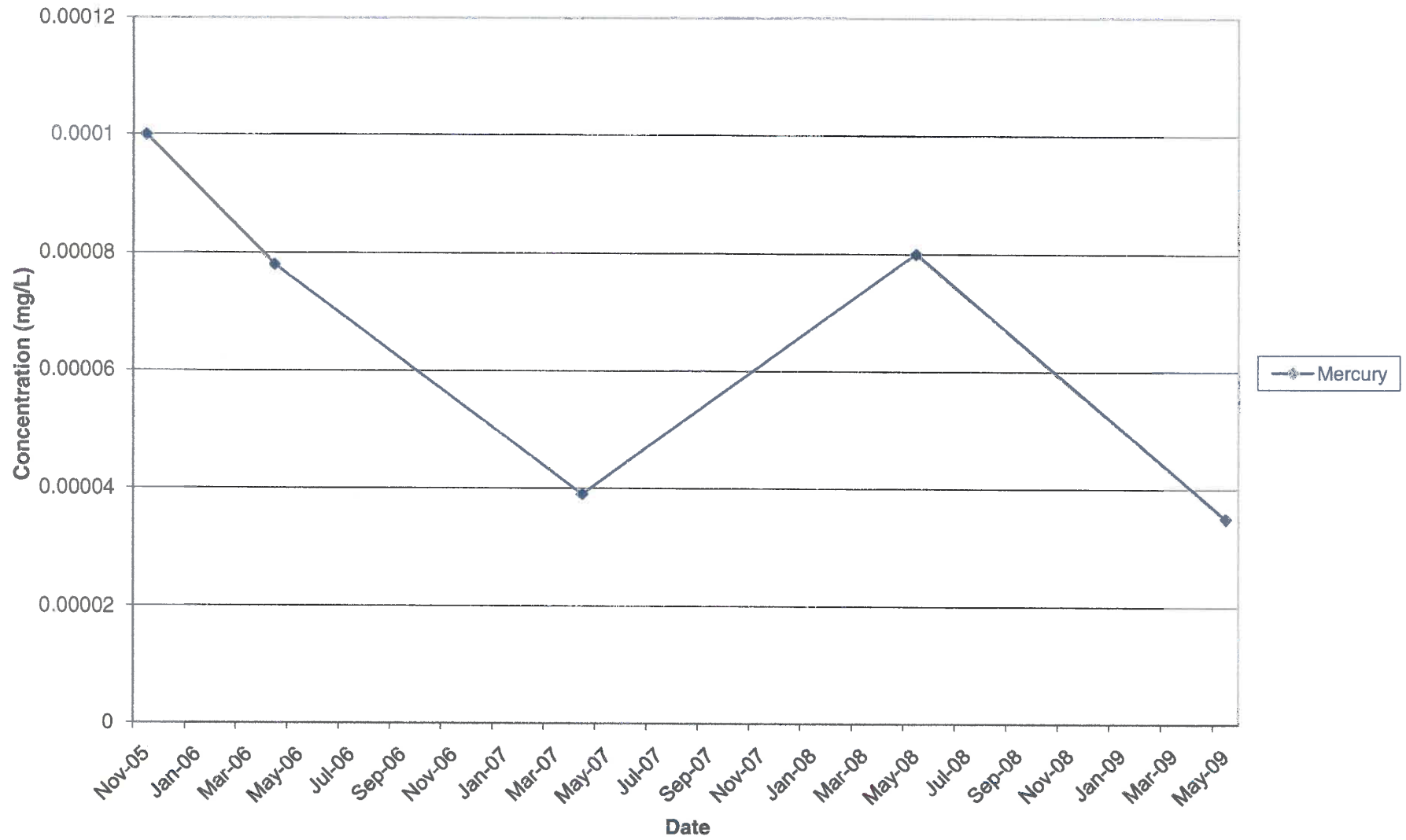
MWB-205 Metals (Part 2)



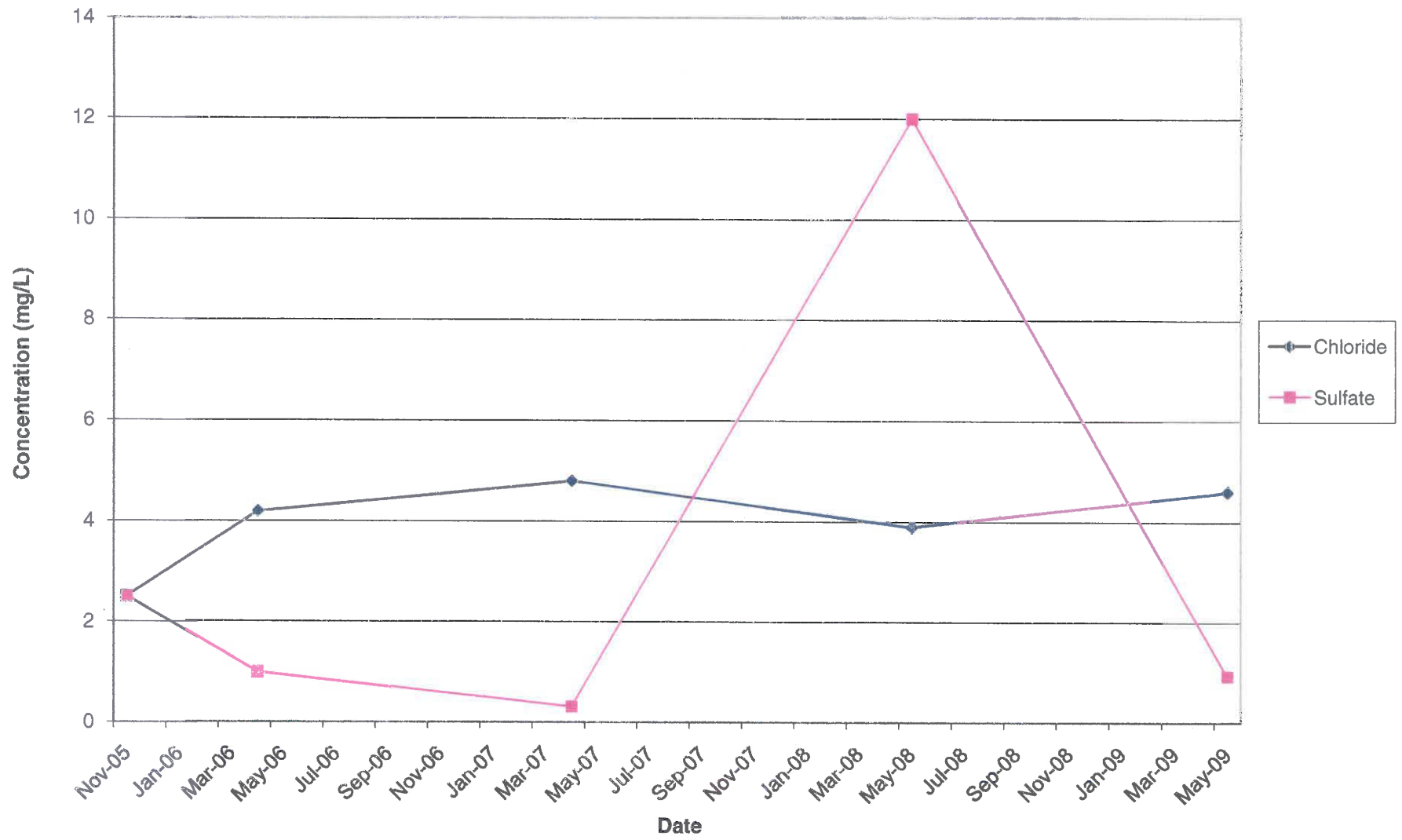
MWB-205 Metals (Part 3)



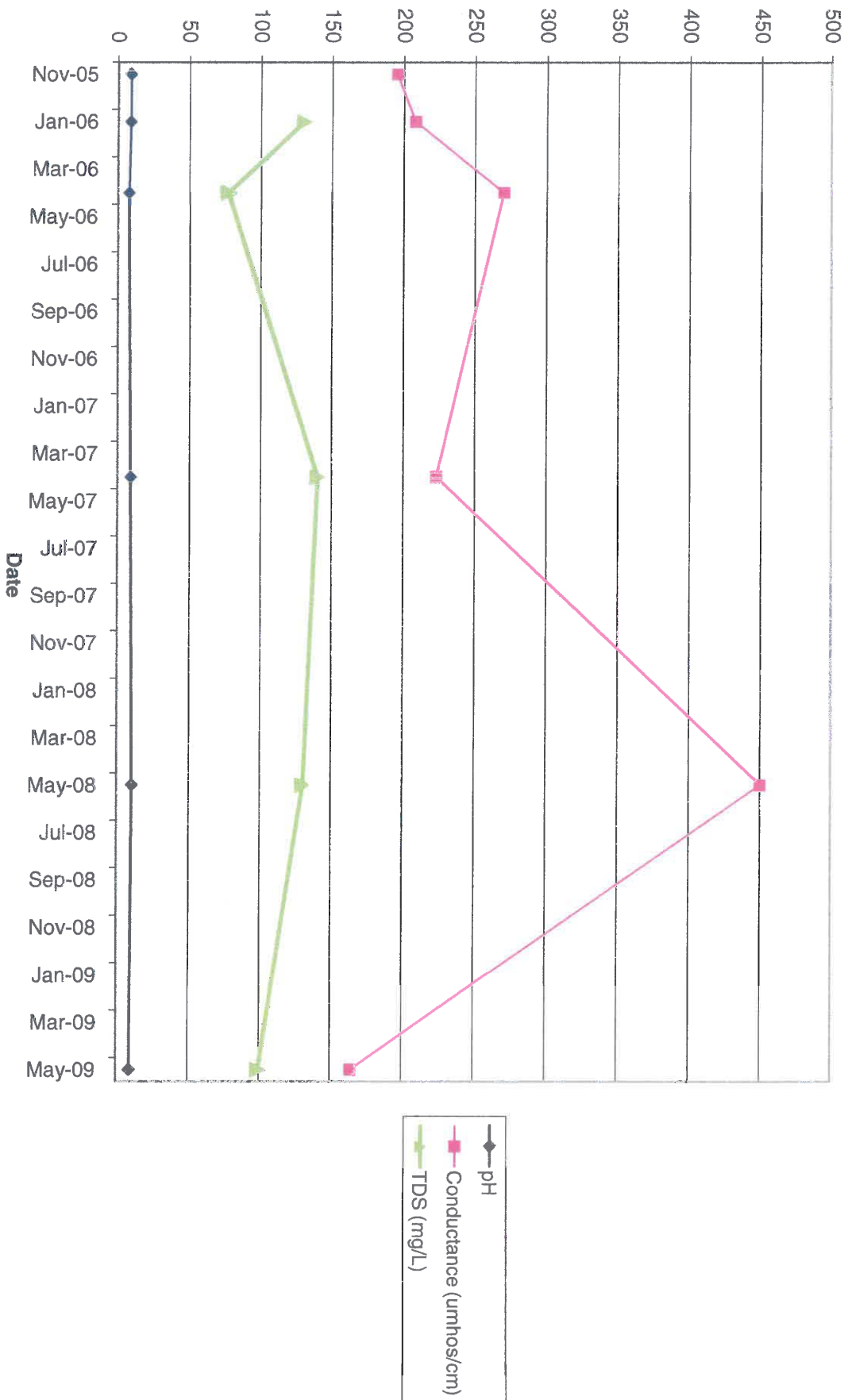
MWB-205 Metals (Part 4)



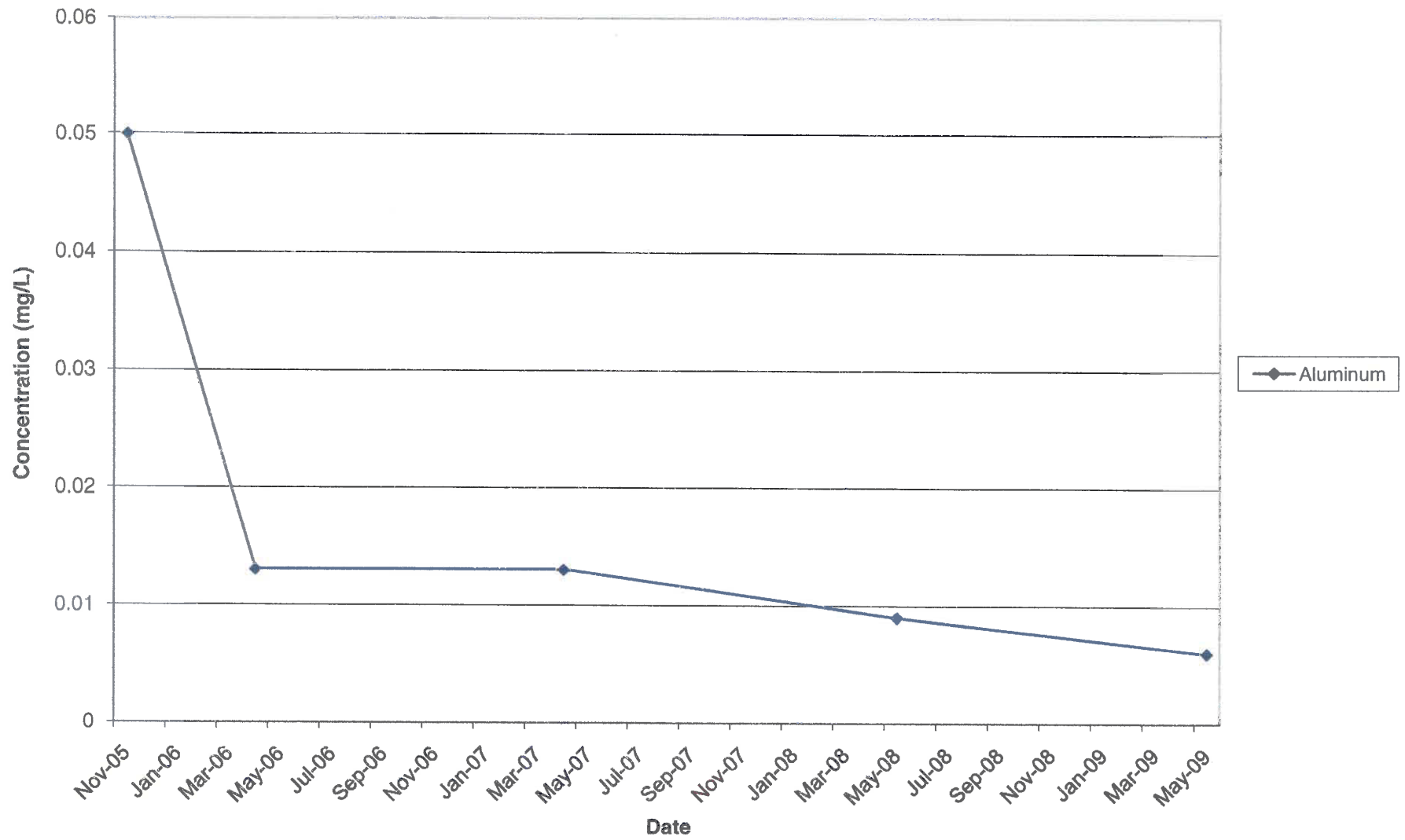
MWB-205 General Chemistry



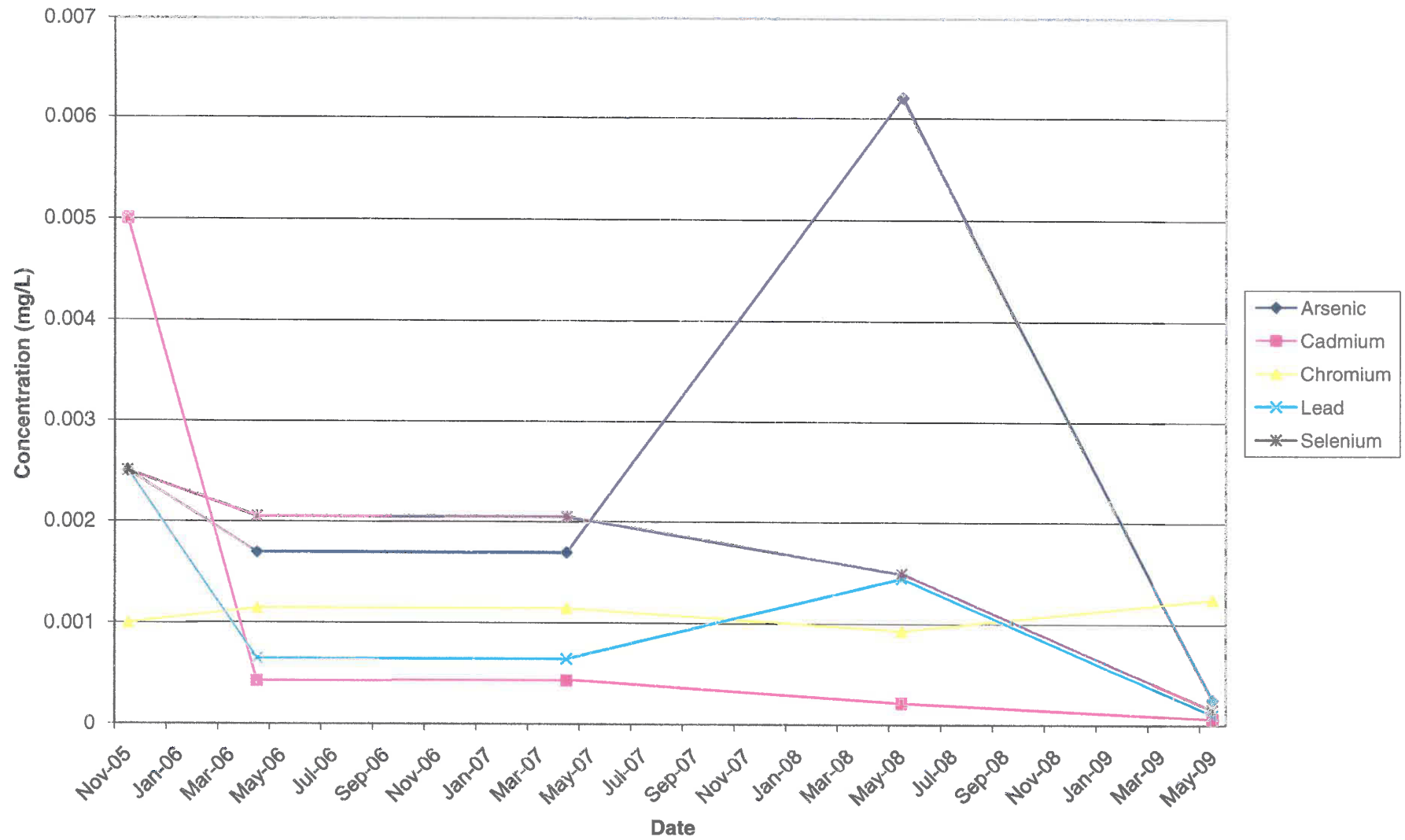
MWB-201 Field Parameters



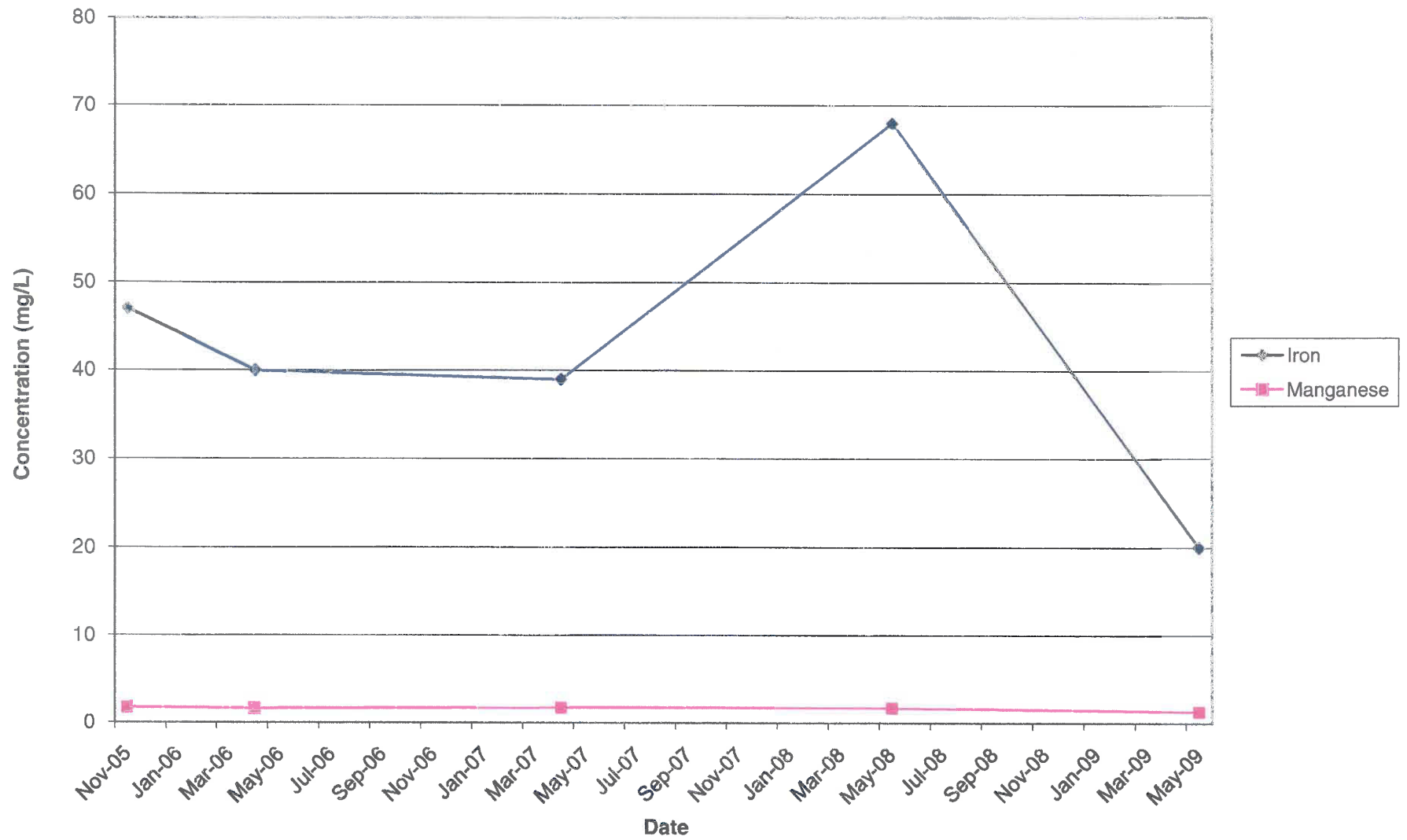
MWC-210 Metals (Part 1)



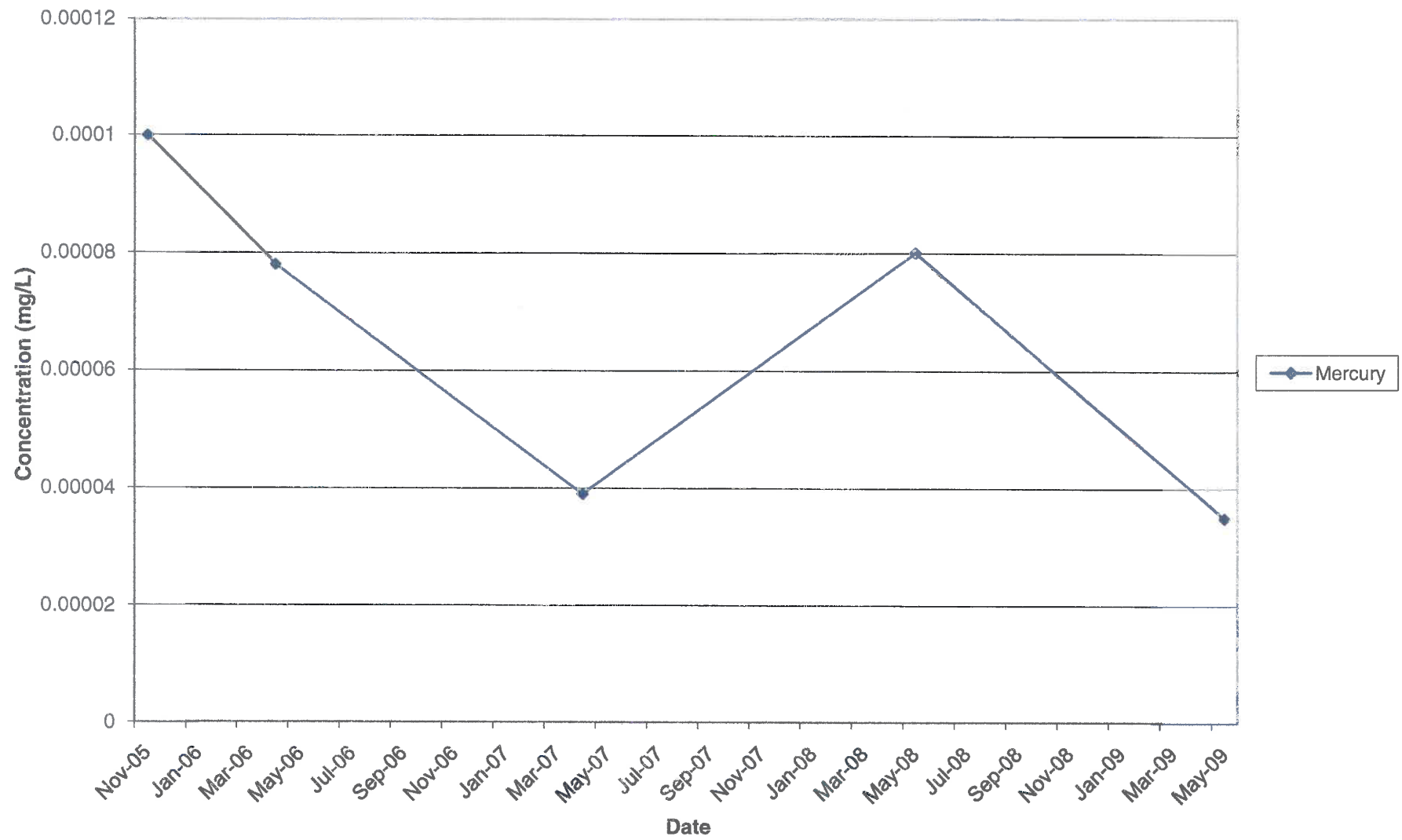
MWC-210 Metals (Part 2)



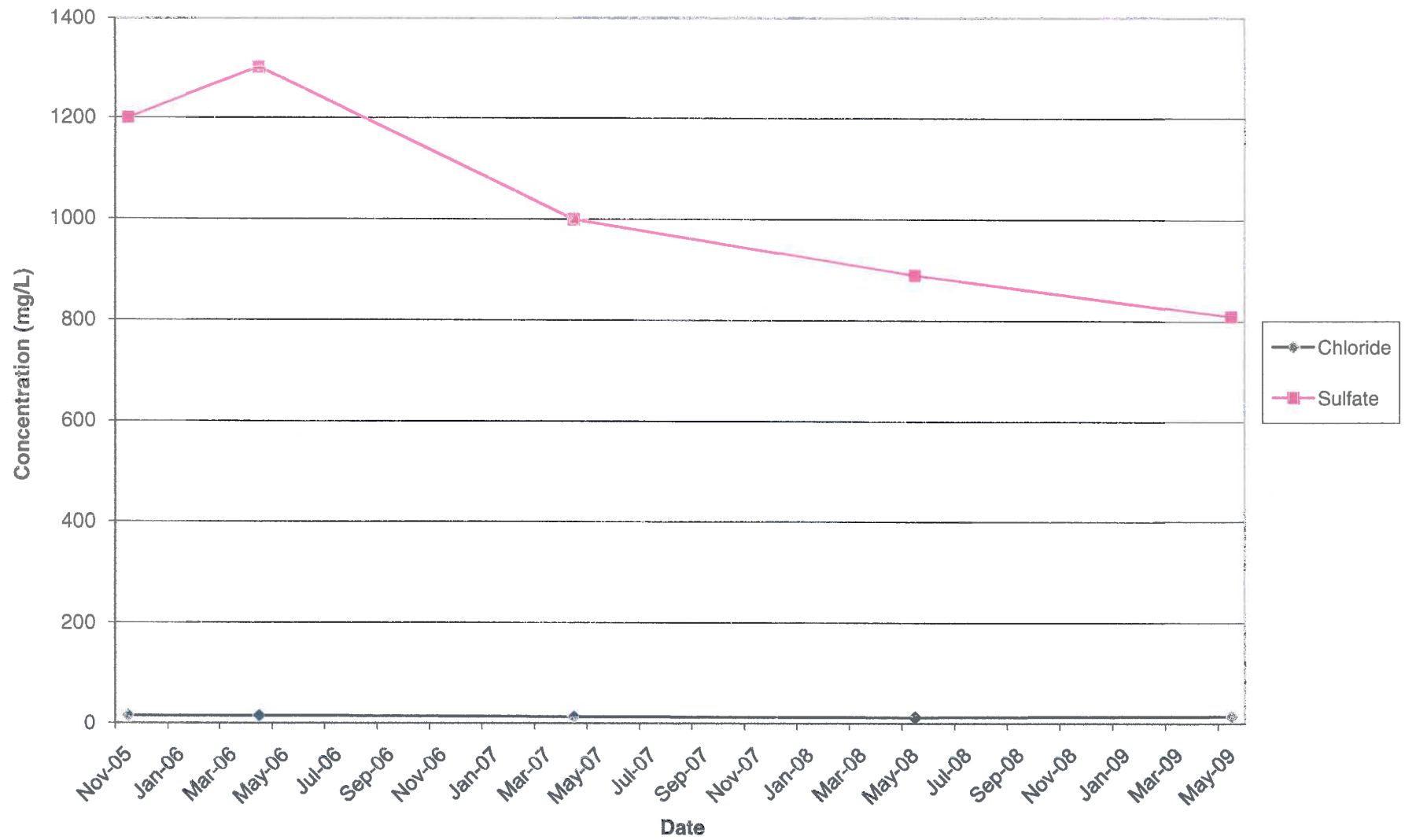
MWC-210 Metals (Part 3)



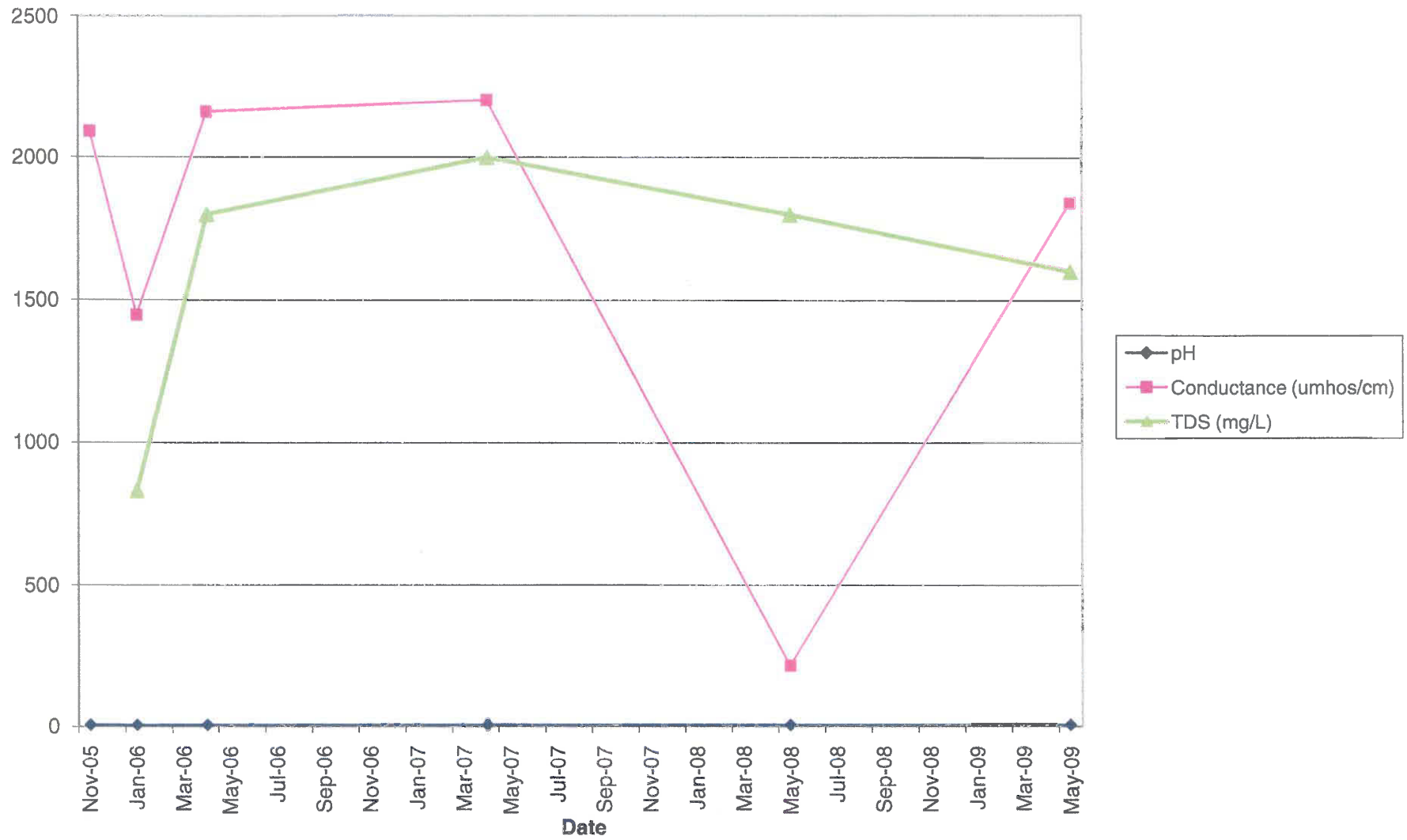
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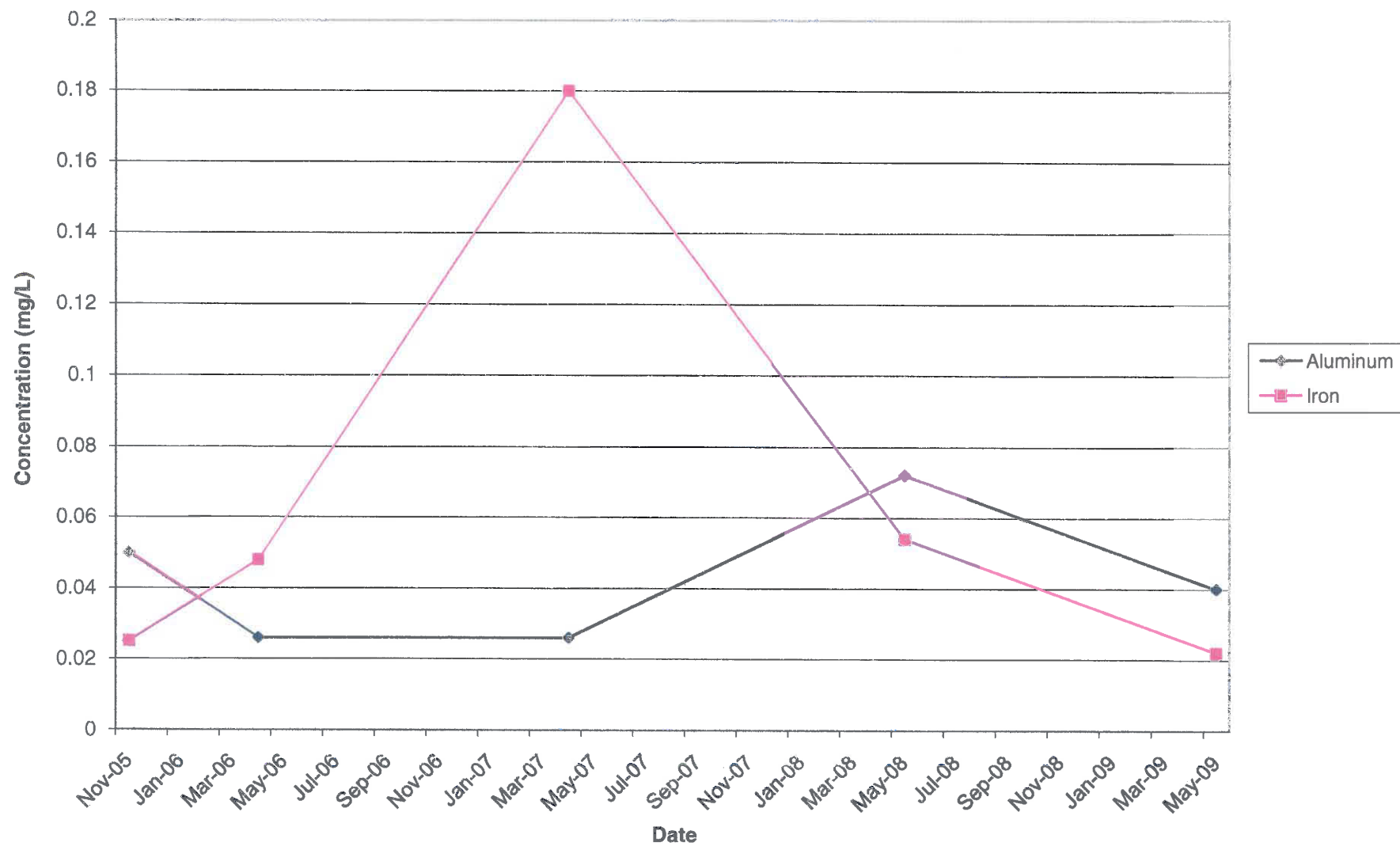
MWC-210 General Chemistry



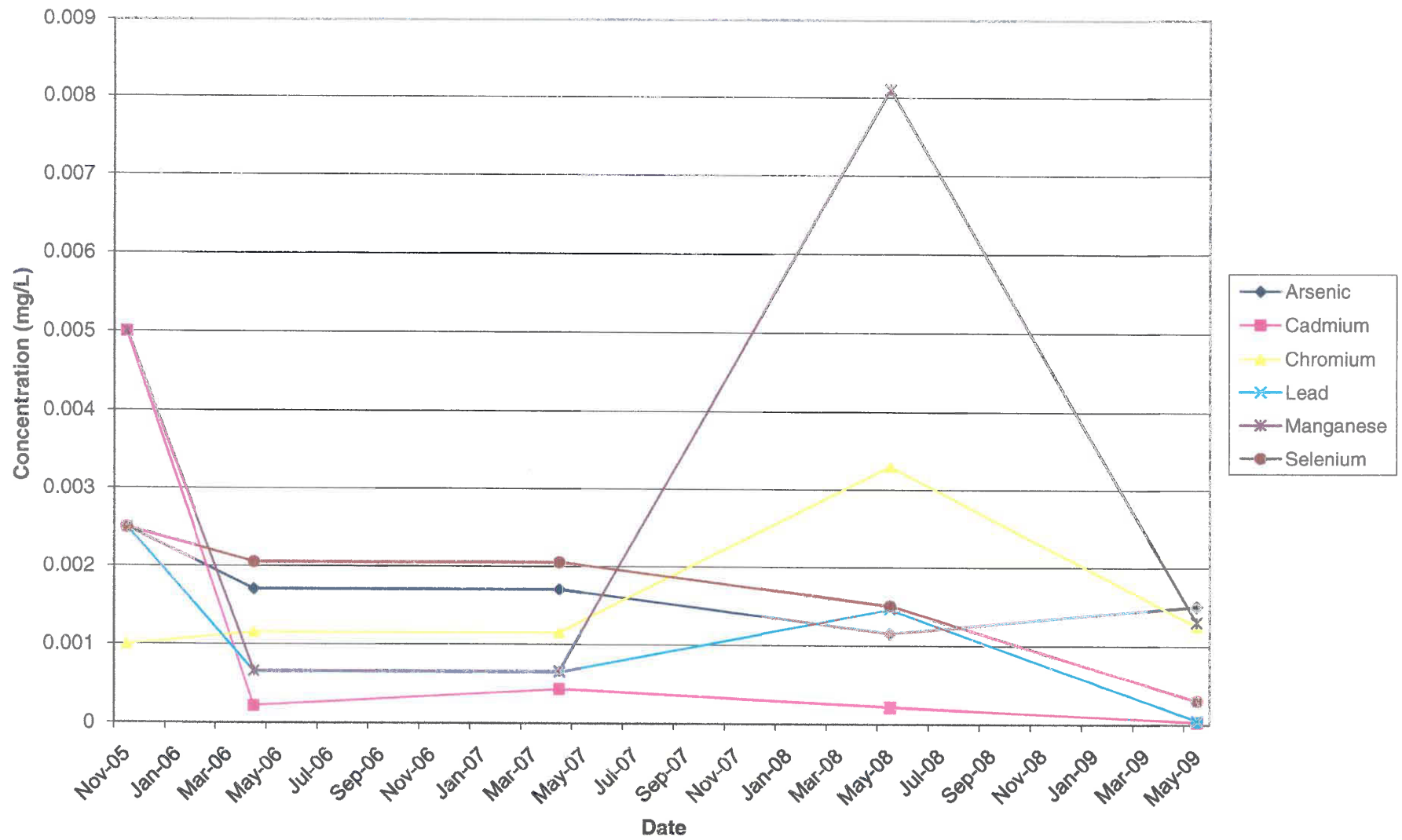
MWC-210 Field Parameters



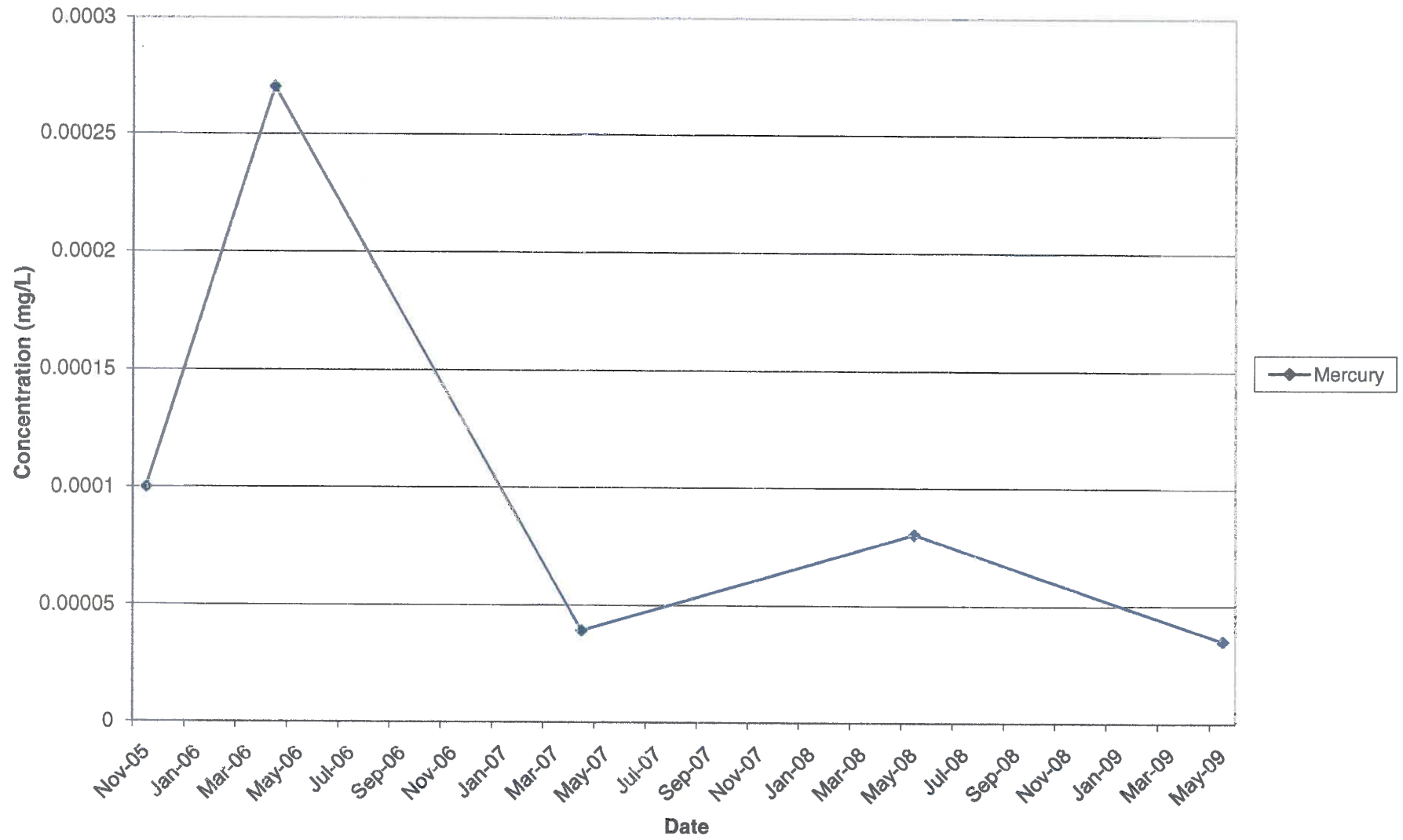
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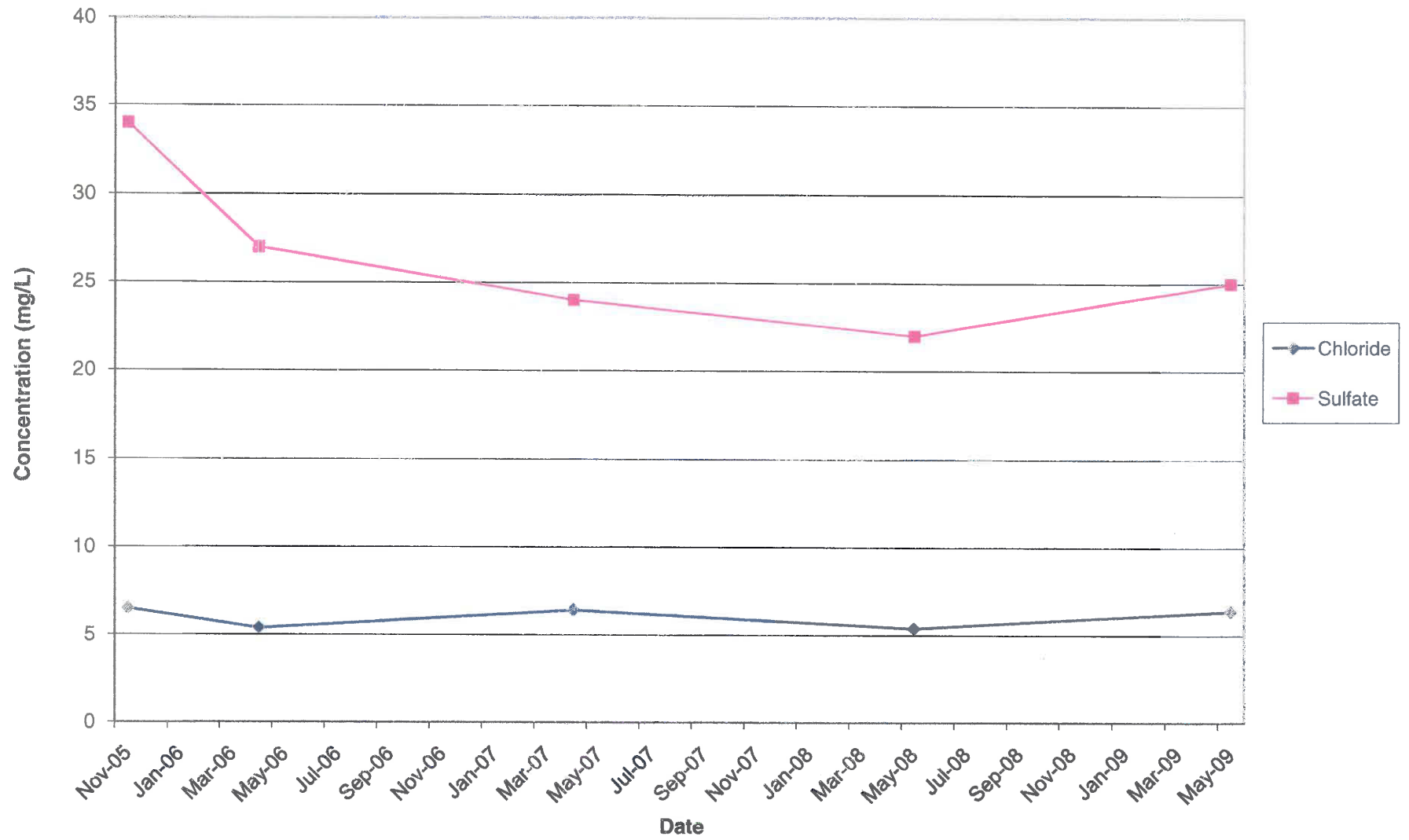
MWC-212 Metals (Part 2)



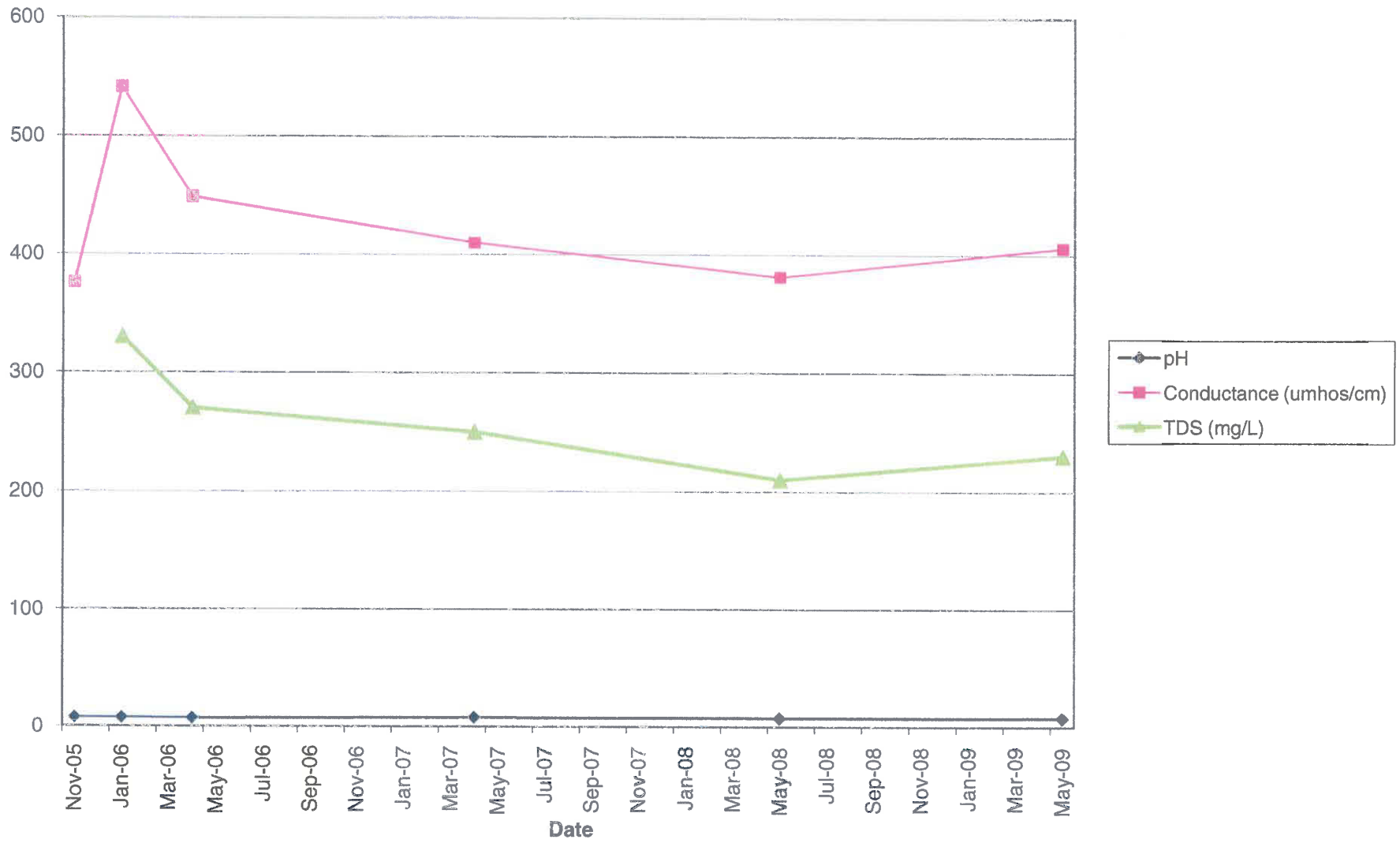
MWC-212 Metals (Part 3)



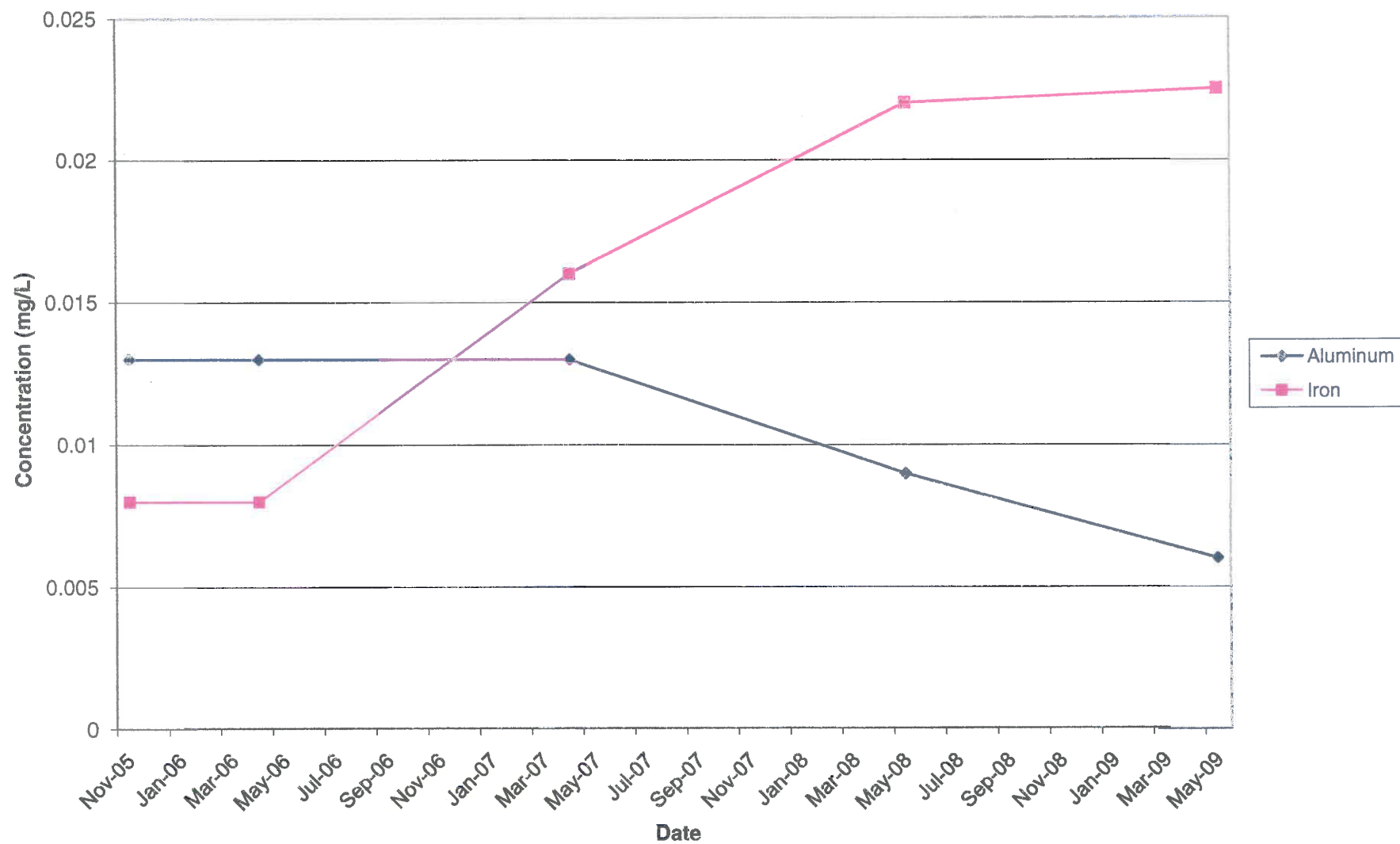
MWC-212 General Chemistry



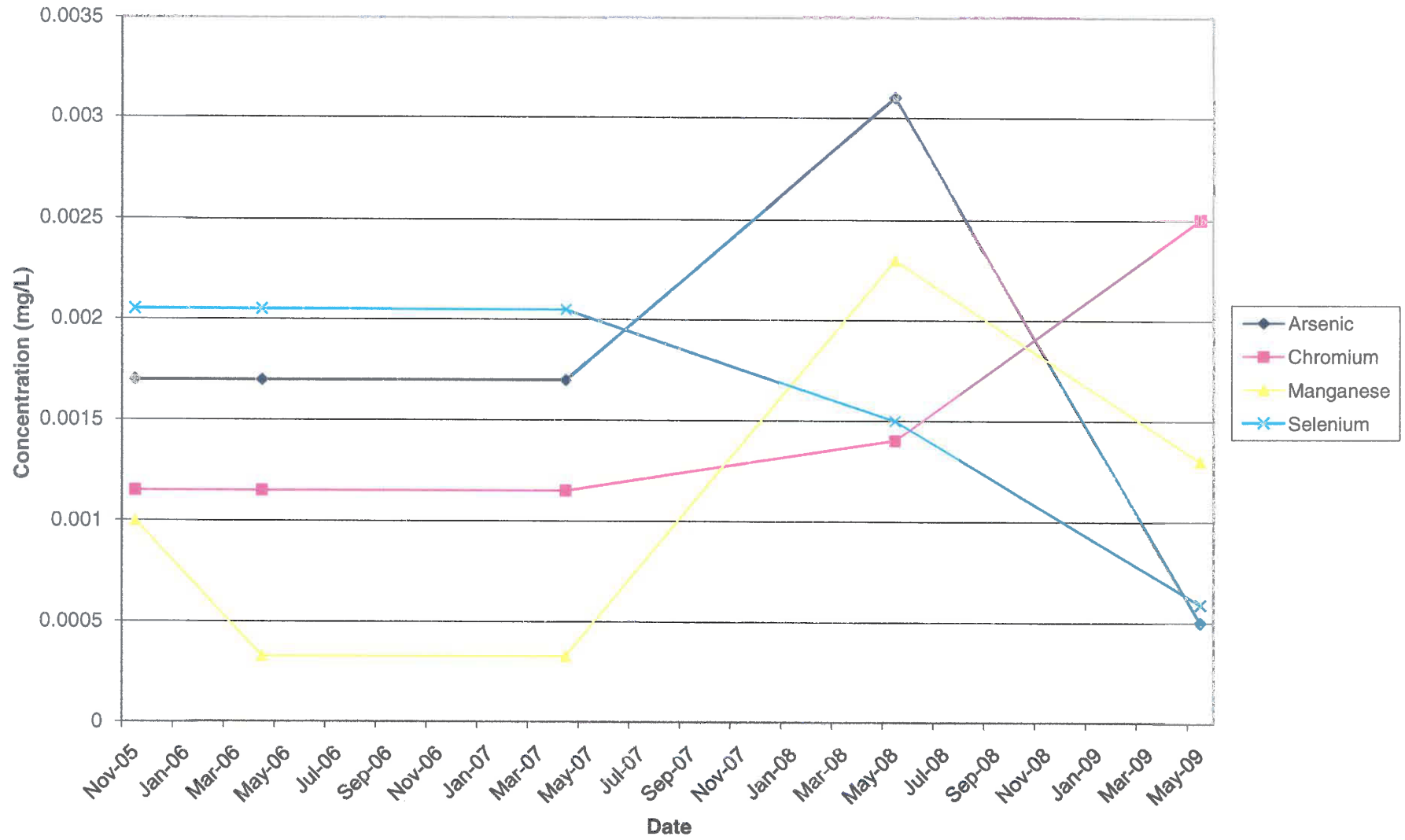
MWC-212 Field Parameters



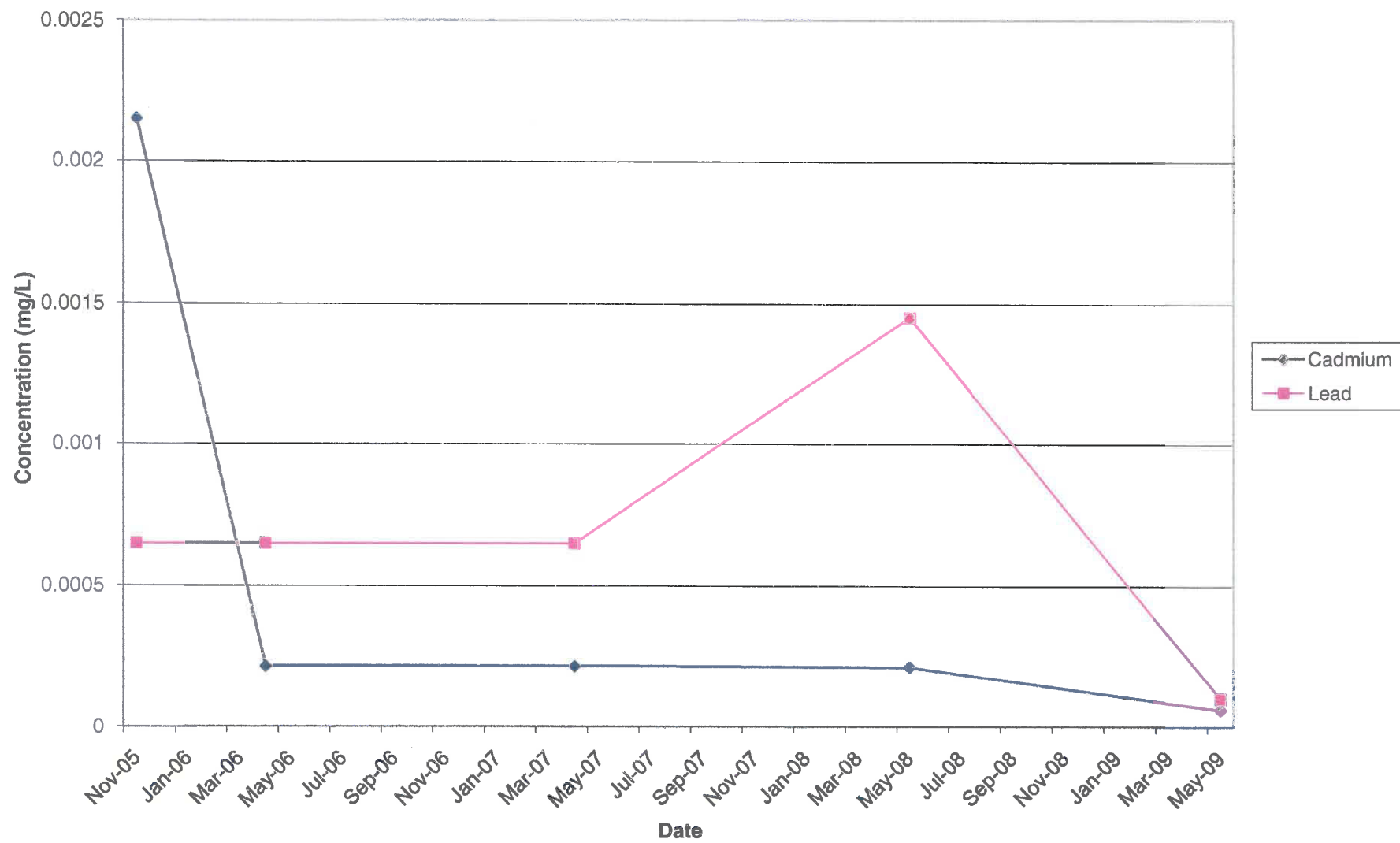
MWC-2 Metals (Part 1)



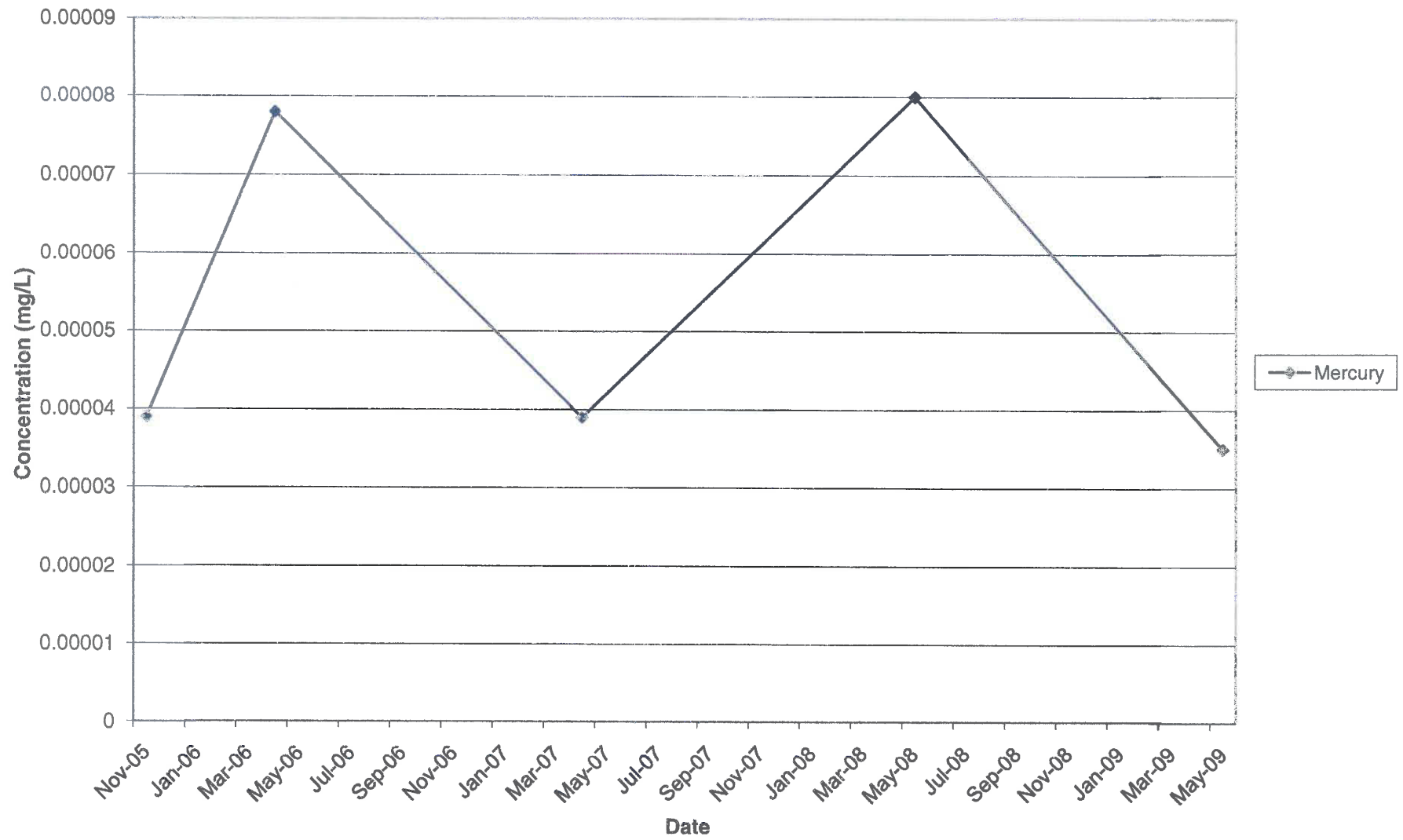
MWC-2 Metals (Part 2)



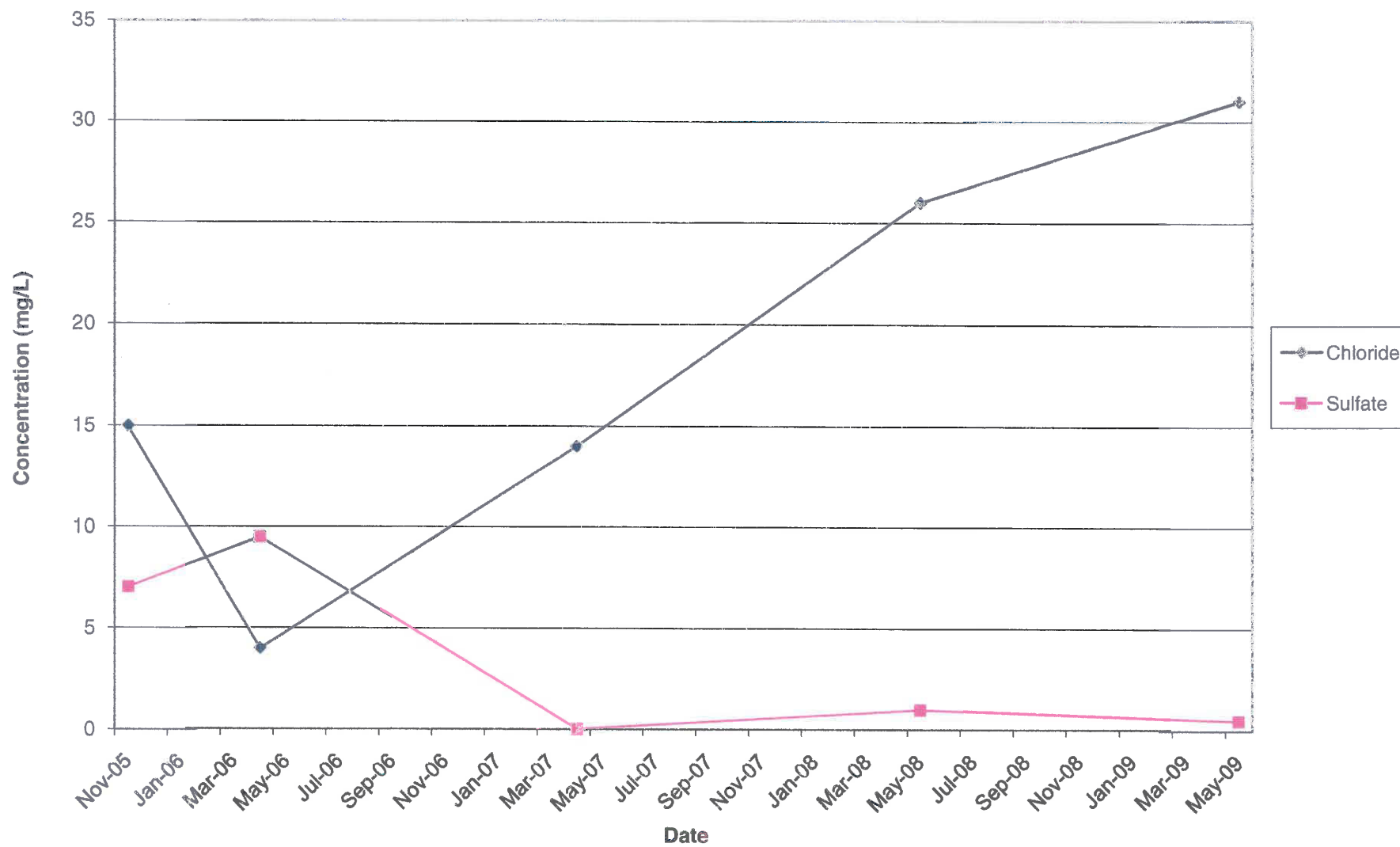
MWC-2 Metals (Part 3)



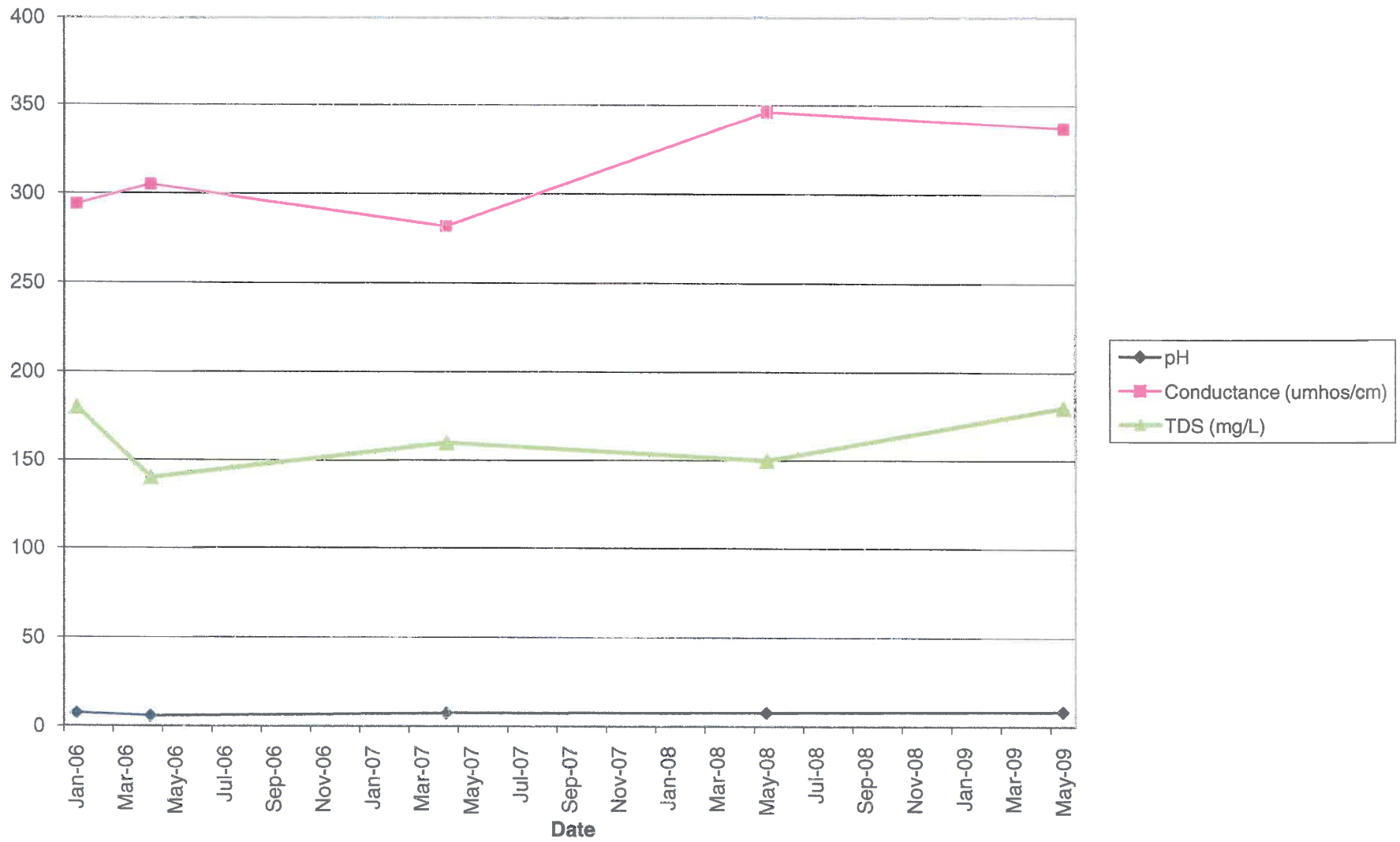
MWC-2 Metals (Part 4)



MWC-2 General Chemistry



MWC-2 Field Parameters





**WASTEWATER PERMIT
APPLICATION FORM 2A**

**FOR
DOMESTIC WASTEWATER
FACILITIES**



WASTEWATER APPLICATION FORM 2A FOR A DOMESTIC WASTEWATER FACILITY PERMIT

Instructions for selected items are included in the "INSTRUCTIONS FOR FORM 2A". Refer to these instructions before filling out each item.

SECTION 1. APPLICANT AND FACILITY DESCRIPTION

1. Application Type

- ☐ New
☐ Substantial Modification
☒ Permit Renewal

2. Facility Type

- ☒ Wastewater Treatment
☐ Reuse or Disposal
☐ Limited Wet Weather Discharge
☐ Residuals/Septage Management

3. Treatment Facility Information

a. Name

Scholz Electric Generating Plant WWTP

b. Facility Identification Number

FL0002283

c. Location

Number and Street

1460 Gulf Power Road

City/State/Zip Code

Sneads, FL 32460

Telephone

850-444-6153

Latitude

30°

40'

11.55"N

Longitude

84°

53'

15.76"W

Dates Coordinates Determined

10/07/09

Method Used to Obtain Coordinates

Scholz NPDES Permit FL0002283

d. Ownership Type

- ☐ Municipal
☐ County
☐ State
☒ Private

e. Contact

Name Susan Butler-Kennedy
Title Sr. Environmental Affairs Speclst
Telephone 850-444-6153

f. Facility Mailing Address

Number and Street One Energy Place
City/State/Zip Code Pensacola, Florida 32520-0328

g. Year Facility Began Operation WWTP - 1993

4. Applicant or Authorized Representative

Legal Name Gulf Power Company
Number and Street One Energy Place
City/State/Zip Code Pensacola, Florida 32520-0328
Telephone 850-444-6153
Contact Person Susan Butler-Kennedy
Title Environmental Affairs Specialist
Telephone Number 850-444-6153

Is the applicant the owner or operator (or both) of the facility? ☒ Owner ☒ Operator

Indicate whether correspondence regarding this facility should be directed to the facility or the applicant.
☐ Facility ☒ Applicant

5. Project Name and Description

n/a

6. Municipalities or Areas Served

Name of Municipality or Area	Ownership	Population Served
none		
Total Population Served		

7. Reclaimed Water Reuse and Effluent Disposal

Method of Reuse or Disposal	Number of Reuse or Disposal Points	Total Design Capacity (mgd)	Basis of Design Flow
Surface Waters - Excluding Ocean Outfalls and Wetlands (Rule 62-600.510, F.A.C.)	0		
Ocean Outfalls (Rule 62-600.520, F.A.C.)	0		
Wetlands (Rule 62-600.620, F.A.C.)	0		
Reuse of Reclaimed Water and Land Application (Rule 62-600.530, F.A.C.)	1		
Ground Water Disposal by Underground Injection (Rule 62-600.540, F.A.C.)	0		
Other (Describe)	Industrial WW System	0.0025	
Total	1	0.0025	

8. Flows to Another Wastewater Facility

- a. Does the facility discharge or transport treated or untreated wastewater to another treatment facility?
☐ Yes ☒ No

b. If yes, describe the mean(s) by which the wastewater from the treatment facility is discharged or transported to the other treatment facility (e.g., collection/transmission system, reclaimed water distribution system)?
 n/a

If transport is by a party other than the applicant, provide the following:

Transporter name: n/a
 Mailing Address: _____

 Contact person: _____
 Title: _____
 Telephone number: _____

- c. For each treatment facility that receives this discharge, provide the following:

Name: _____
 Mailing Address: _____

 Contact person: _____
 Title: _____
 Telephone number: _____

d. Facility Identification Number of Facility Which
Receives the Flow

e. Average Daily Flow Rate to the Receiving Facility

mgd

9. Residuals Use or Disposal

a. Amount of Residuals Generated by the Facility

7212 gallons/3 years

dry tons/year

b. Does this facility receive residuals from another
facility for further treatment and disposal?

☐ Yes ☒ No

c. Method of Residuals Use or Disposal

Method	Number of Sites or Number of Receiving Facilities	Dry Tons Used or Disposed per Year
Land Application (Chapter 62-640, F.A.C.)	0	
Distribution and Marketing (Chapter 62-640, F.A.C.)		
Landfill Disposal (Chapter 62-701, F.A.C.)	0	
Incineration (Chapter 62-200 Series, F.A.C.)	0	
Transport to Another Treatment Facility	1	7212 gallons/3 years
Other (Describe)	0	
Total		7212 gallons/3 years

d. If residuals are transported to another facility
for landfill disposal, incineration, or treatment,
provide the facility name, Facility identification
number and address.

Name

McCoys Septic Tank Service

Facility Identification Number

32QM1001613

Number and Street

2106 Vantage Lane

City/State/Zip Code

Sneads, FL 32460

County

Jackson

Telephone

850-526-5451

Treatment Processes Used by Receiving Facility

Lime Stabilization

10. Permits and Applications

a. Expiration Date of Current NPDES Permit 06/30/10

b. Expiration Date of Current DEP Permit 06/30/10

c. Permit Number of Any Existing Environmental Permits

NPDES	<u>FL0002287</u>	PSD	<u>na</u>
UIC	<u>na</u>	Other	<u>na</u>
RCRA	<u>CESQG FLD043868660</u>	Other	<u>Title V 06330014-010-AV</u>

d. Orders and Notices

Type or Order or Notice	Issuing Agency	Date of Order or Notice
Notice or Violation	n/a	
Consent Order	n/a	
Administrative Order	n/a	
Other (Describe.)		

SECTION 2. TREATMENT FACILITY DESCRIPTION

1. Flow

a. Design Capacity

Current Design Capacity	0.0025	mgd
Proposed Incremental Design Capacity	+0	mgd
Proposed Total Design Capacity	=0.0025	mgd

b. Basis of Design Flow

- ☒ Annual Average Daily Flow
☐ Maximum Monthly Average Daily Flow
☐ Three-Month Average Daily Flow
☐ Other. If other, specify.

c. Annual Average Daily Flow Rate

d. Maximum Daily Flow Rate

Two Years Ago	Last Year	This Year	
0.000408	0.000586	0.000300	mgd
0.002061	0.002244	0.001063	mgd

2. Design Treatment Levels

Parameter	Effluent Concentration	Units	Basis	Percent Removal
pH	N/A	Standard Units		
CBOD ₅	8.425	mg/L	2008 Mon. Average	NA
TSS	15.5	mg/L	2008 Mon. Average	NA

3. Disinfection Level Provided

- ☐ Low-level
☒ Basic
☐ Intermediate
☐ High-level
☐ High-level Alternative

If the facility disinfects by chlorination and the discharge is to surface waters, is dechlorination provided?

☐ Yes ☐ No

4. Residuals Treatment

a. Class of Residuals

- ☐ Class AA (Rule 62-640.850, F.A.C.)
- ☐ Class A (Rule 62-640.600, F.A.C.)
- ☐ Class B (Rule 62-640.600, F.A.C.)
- ☒ Other

If other, describe Residuals are transported to a Residuals Management Facility

b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:

Residuals are transported to a Residuals Management Facility

c. Which vector attraction reduction option is met for the sewage sludge at your facility?

- ☐ Option 1 (Minimum 38 percent reduction in volatile solids)
- ☐ Option 2 (Anaerobic process, with bench-scale demonstration)
- ☐ Option 3 (Aerobic process, with bench-scale demonstration)
- ☐ Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
- ☐ Option 5 (Aerobic processes plus raised temperature)
- ☐ Option 6 (Raise pH to 12 and retain at 11.5)
- ☐ Option 7 (75 percent solids with no unstabilized solids)
- ☐ Option 8 (90 percent solids with unstabilized solids)
- ☐ Option 9 (Injection below land surface)
- ☐ Option 10 (Incorporation into soil within 6 hours)
- ☐ Option 11 (Covering active sewage sludge unit daily)
- ☒ None or unknown

d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:

Residuals are transported to a Residual Management Facility.

e. Parameter Concentrations

POLLUTANT	CONC.	UNITS
Total Nitrogen	na	% dry weight
Total Phosphorus	na	% dry weight
Total Potassium	na	% dry weight
Arsenic	na	mg/kg dry weight
Cadmium	na	mg/kg dry weight
Chromium	na	mg/kg dry weight
Copper	na	mg/kg dry weight
Lead	na	mg/kg dry weight
Mercury	na	mg/kg dry weight
Molybdenum	na	mg/kg dry weight
Nickel	na	mg/kg dry weight
Selenium	na	mg/kg dry weight
Zinc	na	mg/kg dry weight
pH	na	standard units
Total Solids	na	%
Other Parameters		

Date of Sample _____

5. Reliability Class

- ☐ Class I
☐ Class II
☐ Class III
☐ Other Equivalent Reliability

SECTION 3. A. DISCHARGES TO SURFACE WATERS (including wetlands)

1. Discharge Serial Number and Name

Discharge Serial Number

n/a; all discharges are to onsite IWW system

2. Discharge Location

County

Jackson

Street or Description

Scholz IWW Pond

City or Town (if applicable)

Sneads

Zip Code

32460

Latitude

30°

40'

11.55"N

Longitude

84°

53'

15.76"W

Dates Coordinates Determined

Method Used to Obtain Coordinates

Scholz NPDES Permit

3. Design Capacity of the Outfall

Current Design Capacity

na mgd

Proposed Incremental Design Capacity

$$+ \frac{\quad}{\quad} \text{mgd}$$

Proposed Total Design Capacity

$$= \underline{\hspace{2cm}} \text{ mgd}$$

4. Basis of Design Flow

- ☐ Annual Average Daily Flow
☐ Maximum Monthly Average Daily Flow
☐ Three-Month Average Daily Flow
☐ Other

If other, specify

5. Basis for Effluent Limitations

- ☐ TBEL
☐ Level I WQBEL
☐ Level II WQBEL
☐ Other

If other, specify

6. Description of Receiving Waters

a. Name of Receiving Water

b. Type of Receiving Waterbody

- ☐ Fresh
☐ Brackish or Marine

c. Classification of Receiving Waterbody

- ☐ Class I
☐ Class II
☐ Class III
☐ Class IV
☐ Class V

Is the receiving waterbody contiguous to,
or identified as, an Outstanding Florida Water
(OFW) or an Outstanding National Resource Water?

☐ Yes ☐ No

If yes, name and locate on a USGS map.

Does this facility discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flow through) Indian Country? ☐ Yes ☐ No

d. Name of Watershed (if known)

United States Soil Conservation Service 14-digit
Watershed Code (if known)

e. Name of State Management/River Basin (if known)

United States Geological Survey 8-digit Hydrologic
Cataloging Unit Code (if known)

f. Critical low flow of receiving stream (if applicable)

acute _____ cfs chronic _____ cfs

g. Total hardness of receiving stream at critical low flow (if applicable) _____ mg/l of CaCO₃

7. Outfall Information

Description of Outfall and Diffuser

Construction Materials

Length From Shore

Diameter

Discharge Depth Below Water Surface

Receiving Water Bottom Depth Below Water Surface

Is the outfall equipped with a diffuser? ☐ Yes ☐ No

_____ feet

_____ inches

_____ feet

_____ feet

8. Surface Water Improvement and Management (SWIM)

a. Will the discharge affect any SWIM
plan waterbodies?

☐ Yes ☐ No

b. If yes, name the waterbody

c. Has the SWIM plan been approved by a water
management district and the Department?

☐ Yes ☐ No

d. If yes, attach documentation that the proposed
discharge is consistent with the SWIM plan.

9. Additional Information Required for Intermittent or Periodic Discharges

Frequency
Duration
Volume
Occurrence

_____ Times Per Year
_____ Days
_____ Thousand Gallons Per Incident

	Jan		May		Sep
	Feb		Jun		Oct
	Mar		Jul		Nov
	Apr		Aug		Dec

10. Additional Information Required for Limited Wet Weather Discharges Permitted in Accordance with Rule 62-610.860, F.A.C.

a. Downstream Waterbody

Name of nearest downstream lake, estuary, reservoir, OFW, or Class I water. Show location on a USGS map.

Classification of Downstream Waterbody

- ☐ Class I
☐ Class II
☐ Class III
☐ Class IV
☐ Class V

Distance Downstream

_____ miles

Average Flow Velocity During Anticipated Periods of Discharge

_____ feet per second

Travel Time During Anticipated Periods of Discharge

_____ hours

b. Rainfall Information

Rainfall Gauging Station Location

Period of Record Analyzed:

Beginning Year

Ending Year

Number of Years

Average Annual Rainfall

_____ inches per year

- c. Simulation of Operation of the Reuse, Storage, and Limited Wet Weather Discharge for an Average Rainfall Year

Year Simulated _____

Annual Rainfall During Average Year _____ inches

Number of Days Limited Wet Weather Discharge is Used During Average Rainfall Year (N) _____ days

Percent of the Days of the Year that the Limited Wet Weather Discharge will Occur During Average Rainfall Year (P) _____ %

Note:

$$P = [(N) / (365)] \times 100\%.$$

P cannot exceed 25% or be less than 1%.

- d. Reclaimed Water Quality (maximum monthly average)

CBOD₅ _____ mg/L
TKN (as Nitrogen) _____ mg/L

- e. Minimum Acceptable Stream Dilution Factor (SDF) _____

Note:

$$SDF = P(0.085 \times CBOD_5 + 0.272 \times TKN - 0.484)$$

The values for CBOD₅ and TKN should be in terms of maximum monthly average limitations as provided in 14.d. above. The value of P should be as calculated in 14.c. above.

- f. Adjusted Stream Dilution Factor _____

Note:

If the travel time shown in 14.a., above, is less than 24 hours, provide the adjusted minimum acceptable stream dilution factor.

$$\text{Adjusted SDF} = SDF \times (24 \text{ hours}) / (\text{travel time in hours})$$

11. Additional Information Required for Wetland Discharges

- a. Is the wetland a jurisdictional wetland (i.e. within the landward extent of waters as defined in Rule 62-301.400, F.A.C., or isolated and not owned entirely by one person, or owned entirely by the State)?

☐ Yes ☐ No

- b. Will the wetland be used as a treatment wetland or receiving wetland?

☐ Treatment
☐ Receiving

If the wetland is to be used as a treatment wetland, attach documentation showing ownership or the applicant's legal interest in the treatment wetland.

- c. If the wetland is to be used for treatment, identify the type.

☐ Man-made
☐ Hydrologically Altered
☐ Unaltered

- d. Is the wetland herbaceous or woody?

☐ Herbaceous
☐ Woody

- e. Identify the classification of surface waters within the wetland.

☐ Class I
☐ Class II
☐ Class III
☐ Class IV
☐ Class V

- f. Are the waters within the wetland part of an OFW?

☐ Yes ☐ No

12. Effluent Testing Information.

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)		s.u.	-	-	-
pH (Maximum)		s.u.	-	-	-
Flow Rate					
Temperature (Winter)					
Temperature (Summer)					
* For pH, please report a minimum and maximum daily value.					

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	MDL/ PQL
	Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.							
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)							
TOTAL SUSPENDED SOLDS (TSS)							
FECAL COLIFORM							

13. Additional Application Information for Applicants with a Design Flow Greater Than or Equal to 0.1 mgd

a. Effluent Testing Data

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	MDL/ PQL
	Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.							
AMMONIA (as N)							
CHLORINE (TOTAL RESIDUAL TRC)							
DISSOLVED OXYGEN							
TOTAL KJELDAHL NITROGEN (TKN)							
NITRATE PLUS NITRITE							
NITROGEN							
OIL and GREASE							
PHOSPHORUS (Total)							
TOTAL DISSOLVED SOLIDS (TDS)							
OTHER PARAMETERS							

b. Inflow and Infiltration

Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration _____ gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

c. Operation/Maintenance Performed by Contractor(s).

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? ☐ Yes ☐ No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: _____

Mailing Address: _____

Telephone Number: _____

Responsibilities of Contractor: _____

14. Expanded Effluent Testing Data: 1.0 mgd and Pretreatment Treatment Works.

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.											
ANTIMONY											
ARSENIC											
BERYLLIUM											
CADMIUM											
CHROMIUM											
COPPER											
LEAD											
MERCURY											
NICKEL											
SELENIUM											
SILVER											
THALLIUM											
ZINC											
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (AS CaCO ₃)											
Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.											
VOLATILE ORGANIC COMPOUNDS.											
ACROLEIN											
ACRYLONITRILE											
BENZENE											
BROMOFORM											
CARBON TETRACHLORIDE											
CHLOROBENZENE											
CHLORODIBROMOMETHANE											
CHLOROETHANE											
2-CHLOROETHYL VINYL ETHER											
CHLOROFORM											
DICHLOROBROMOMETHANE											
1,1-DICHLOROETHANE											
1,2-DICHLOROETHANE											
TRANS-1,2-DICHLOROETHYLENE											
1,1-DICHLOROETHYLENE											
1,2-DICHLOROPROPANE											
1,3-DICHLOROPROPYLENE											
ETHYLBENZENE											
METHYL BROMIDE											
METHYL CHLORIDE											
METHYLENE CHLORIDE											

DI-N-OCTYL PHTHALATE												
DIBENZO(A,H) ANTHRACENE												
1,2- DICHLOROBENZENE												
1,3- DICHLOROBENZENE												
1,4- DICHLOROBENZENE												
3,3- DICHLOROBENZIDIN E												
DIETHYL PHTHALATE												
DIMETHYL PHTHALATE												
2,4- DINITROTOLUENE												
2,6- DINITROTOLUENE												
1,2-DIPHENYL- HYDRAZINE												
FLUORANTHENE												
FLUORENE												
HEXACHLORO- BENZENE												
HEXACHLORO- BUTADIENE												
HEXACHLORO- CYCLO-PENTADIENE												
HEXACHLORO- ETHANE												
INDENO(1,2,3- CD)PYRENE												
ISOPHORONE												
NAPHTHALENE												
NITROBENZENE												
N-NITROSODI-N- PROPYLAMINE												
N-NITROSODI- METHYLAMINE												
N-NITROSODI- PHENYLAMINE												
PHENANTHRENE												
PYRENE												
1,2,4-TRICHLORO- BENZENE												
Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.												
Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.												

SECTION 3. B. REUSE AND LAND APPLICATION SYSTEMS

1. Reuse or Land Application System Serial Number and Name

Reuse or Land Application System Serial Number

NA

Effluent is discharged to onsite Industrial
Wastewater System

2. Reuse or Land Application System Location

County

City or Town (if applicable)

Street or Description

Latitude

°

'

"N

Longitude

°

'

"W

Dates Coordinates Determined

Method Used to Obtain Coordinates

3. Design Capacity of the Reuse or Land Application System

Current Design Capacity

n/a mgd

Proposed Incremental Design Capacity

+ _____ mgd

Proposed Total Design Capacity

= _____ mgd

4. Basis of Design Flow

☐ Annual Average Daily Flow

☐ Maximum Monthly Average Daily Flow

☐ Three-Month Average Daily Flow

☐ Other

If other, specify _____

5. Is land application continuous or intermittent?

☐ Continuous ☐ Intermittent

6. Underdrains and Perimeter Ditches

a. Is the reuse or land application system underdrained?

☐ Yes ☐ No

b. Are perimeter ditches used?

☐ Yes ☐ No

If yes, will they be excavated to a depth which will intersect the seasonal high ground water table or the ground water mound during any portion of the year?

☐ Yes ☐ No

7. Type of Reuse or Land Application System

- ☐ Slow-rate land application system/restricted public access (Chapter 62-610, F.A.C., Part II)
☐ Slow-rate land application system/public access areas, residential irrigation, and edible crop irrigation (Chapter 62-610, F.A.C., Part III)
☐ Rapid-rate land application system (Chapter 62-610, F.A.C., Part IV)
☐ Absorption field system (Chapter 62-610, F.A.C., Part V)
☐ Overland flow system (Chapter 62-610, F.A.C., Part VI)
☐ Other land application system with additional levels of preapplication treatment (Rule 62-610.660, F.A.C.)
☐ Other land application system with lower levels of preapplication treatment (Rule 62-610.670, F.A.C.)

8. Application Areas and Rates

Site/Use Type/Major User	Area (acres)	Rate (inches/week)	Capacity (mgd)
n/a			
Total			

9. Additional Information Required for Reuse Systems Permitted Under Part III of Chapter 62-610, F.A.C.

a. Areas Irrigated

- ☐ Residential lawns
☐ Golf courses
☐ Cemeteries
☐ Parks, playgrounds
☐ Landscape areas
☐ Highway medians, rights-of-way
☐ Edible crops
☐ Others

If other, specify _____

b. Other Uses of Reclaimed Water

- ☐ Toilet flushing
☐ Fire protection
☐ Construction dust control
☐ Aesthetic purposes (decorative ponds, fountains, etc.)
☒ Others

If other, specify. _____

- c. How many hours per day, seven days per week, is or will an operator be on-site at the wastewater treatment facility?

n/a hours per day

If the treatment facility is or will be staffed by an operator less than 24 hrs/day, describe the additional levels of reliability included within the treatment or reuse systems (See Rule 62-610.462, F.A.C.)

- d. For permit renewals, list the dates on which the operating protocols (as described in Rule 62-610.463, F.A.C.) were submitted to the Department and the date of the Department's approvals during the last five years.

Date Submitted	Date Approved

- e. For each site where edible crops are or will be irrigated with reclaimed water, describe the crops grown; the type of application system used; provisions for crop washing and for processing, if any; and provisions for control of public access, if any. (See Rule 62-610.475, F.A.C.)

n/a

SECTION 3. C. GROUND WATER DISPOSAL BY UNDERGROUND INJECTION

1. Underground Injection Well Facility Serial Number and Name

Underground Injection Well Facility Serial Number none

2. Underground Injection Well Facility Location

County _____
City or Town (if applicable) _____
Street or Description _____

Latitude _____ ° _____ ' _____ "N
Longitude _____ ° _____ ' _____ "W
Dates Coordinates Determined _____
Method Used to Obtain Coordinates _____

3. Underground Injection Well Facility DEP Identification Number or Permit Application Number

4. Design Capacity of the Underground Injection Well Facility

Current Design Capacity _____ mgd
Proposed Incremental Design Capacity + _____ mgd
Proposed Total Design Capacity = _____ mgd

5. Basis of Design Flow

- ☐ Annual Average Daily Flow
☐ Maximum Monthly Average Daily Flow
☐ Three-Month Average Daily Flow
☐ Other

If other, specify. _____

6. Is injection continuous or intermittent?

☐ Continuous ☐ Intermittent

SECTION 4. SCHEDULED IMPROVEMENTS AND SCHEDULES OF IMPLEMENTATION

1. Improvements Required

- a. Discharge Serial Numbers, Reclaimed Water Reuse or Land Application System Serial Numbers, and Underground Injection Well Facility Serial Numbers Affected

_____ none _____

- b. Authority Imposing Requirement

- ☐ Local
☐ State
☐ Federal
☐ Developed by Applicant
☐ Other

If other, specify. _____

2. Implementation Schedule and Actual Completion Dates

Implementation Steps	Schedule	Actual Completion
a. Preliminary Plans Complete		
b. Final Plans and Specifications Complete		
c. Financing Complete		
d. Site Acquired		
e. Begin Construction		
f. End Construction		
g. Begin Reuse or Disposal		
h. Operational Level Attained		

3. Have appropriate permits/clearances concerning other Federal/State requirements been obtained?

☐ Yes ☐ No

If so, describe briefly:

SECTION 5. INDUSTRIAL WASTEWATER CONTRIBUTIONS

1. Does the treatment works have, or is it subject to, an approved pretreatment program? ☐ Yes ☒ No

2. Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. _____

b. Number of CIUs. _____

3. Significant Industrial User Information

Name _____
Number and Street _____
City/State/Zip Code _____
County _____

4. Industrial processes Affecting or Contributing to the SIU's Discharge

5. Principal Product(s) and Raw Material(s)

Principal product(s): _____

Raw material(s): _____

6. Flow Rate

a. Process wastewater flow rate.

_____ gpd ☐ Intermittent ☐ Continuous

b. Non-process wastewater flow rate.

_____ gpd ☐ Intermittent ☐ Continuous

7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☐ Yes ☐ No

b. Categorical pretreatment standards ☐ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

8. **Problems at the Treatment Works Attributed to Waste Discharged by the SIU.** Has the SIU caused or contributed to any problems (e.g. upsets, interference) at the treatment works in the past three years?

☐ Yes ☐ No

If yes, describe each episode.

9. **RCRA Waste.** Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe?

☐ Yes ☐ No If no, go to question 12.

10. **Waste Transport.** Method by which RCRA waste is received (check all that apply):

☐ Truck ☐ Rail ☐ Dedicated Pipe

11. **Waste Description.** Give EPA hazardous waste number and amount (volume or mass, specify units).

<u>EPA Hazardous Waste Number</u>	<u>Amount</u>	<u>Units</u>

12. **Remediation Waste.** Does the treatment works currently (or has it been modified that it will) receive waste from remedial activities?

☐ Yes (complete 13. through 15.)

☐ No

Provide a list of sites and the requested information (13. – 15.) for each current and future site.

13. **Waste Origin.** Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

14. **Pollutants.** List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).

15. Treatment.

- a. Is this waste treated (or will it be treated) prior to entering the treatment works?

☐ Yes ☐ No

If yes, describe the treatment (provide information about the removal efficiency):

- b. Is the discharge (or will the discharge be) continuous or intermittent?

☐ Continuous ☐ Intermittent

If intermittent, describe discharge schedule.

SECTION 6. ADDITIONAL INFORMATION REQUIRED FOR PERMIT RENEWALS

1. Have there been any modifications to the treatment facilities or reuse or disposal system, since the issuance of the current permit? If yes, describe on a separate sheet and attach. ☐ Yes ☒ No

2. For limited wet weather discharges, have any modifications been made to the operation, frequency of discharge, or stream hydrology since the original limited wet weather discharge permit or the most recent permit. If yes, describe on a separate sheet and attach. ☐ Yes ☒ No ☐ NA

3. Have there been any violations during the last six months? If yes, describe on a separate sheet and attach. ☐ Yes ☒ No

4. Have there been any treatment facility interferences due to the discharge of industrial wastewater to the treatment facility during the last six months? If yes, describe on a separate sheet and attach. ☐ Yes ☒ No

5. Is there any enforcement action pending against these treatment, reuse, or disposal facilities? If yes, describe on a separate sheet and attach. ☐ Yes ☒ No

6. Have all previous permit conditions, including pretreatment requirements, monitoring requirements, and operator attendance been complied with? If no, describe on a separate sheet and attach. ☐ Yes ☒ No

7. For permit renewals involving a limited wet weather discharge permitted under Rule 62-610.860, F.A.C., list the number of days during each of the last five years that the limited wet weather discharge was used. Also, list the total annual rainfall for each year.

Year	Number of Days Used	P (%)	Annual Rainfall (inches)
1. n/a			
2.			
3.			
4.			
5.			
Total/Average			

SUPPLEMENTAL INFORMATION
SECTION 6.6.

During the last 3 years, this facility had one instance whereby a permit condition was not complied with. Specifically in the second quarter 2007, one exceedance was reported for the BOD. The 2nd quarter BOD sampled measured 34 mg/L in exceedance of the 30 mg/L permit limit. The next sample collected the following quarter measured <2.0 mg/L which brought the plant back into compliance.

8. For permit renewals involving a limited wet weather discharge permitted under Rule 62-610.860, F.A.C., provide the number of days during each of the last five years that the actual dilution ratio, as defined in Rule 62-610.860, F.A.C., was less than the minimum SDF and the number of months in which the monthly average CBOD₅ or TKN in the limited wet weather discharge exceeded the permit limitations.

Year	Number of Days the Dilution Ratio Was Less Than SDF	Number of Months the Limits Were Exceeded	
		CBOD ₅	TKN
1. n/a			
2.			
3.			
4.			
5.			

SECTION 7. ADDITIONAL INFORMATION REQUIRED FOR RESIDUALS/SEPTAGE MANAGEMENT FACILITIES

1. Location of Residuals Treatment Processes n/a

(Describe in relation to the wastewater treatment processes.)

2. Type and Amount of Waste Treated at this Facility

Type	Amount (dry tons/day)	Amount (gallons/day)
Residuals	or	
Septage		
Food Establishment Sludge		
Portable Toilet Waste		
Holding Tank Waste		
Boat or Marina Waste		
Other (Describe.)	or	
Total	or	

Is the total amount estimated or actual?

☐ Estimated
☐ Actual

3. Information on Treatment Facilities Transporting Residuals

a. DEP Permit Number

b. Facility Name

Number and Street

City/State/Zip Code

County

Telephone

c. Facility Type

☐ Type I
☐ Type II
☐ Type III

d. Amount of Residuals Received From This Facility

_____ dry tons/day or _____ gpd

Is this amount estimate or actual?

☐ Estimated
☐ Actual

e. Describe the treatment provided by this facility before transport

f. Parameter Concentrations

POLLUTANT	CONC.	UNITS
Total Nitrogen		% dry weight
Total Phosphorus		% dry weight
Total Potassium		% dry weight
Arsenic		mg/kg dry weight
Cadmium		mg/kg dry weight
Chromium		mg/kg dry weight
Copper		mg/kg dry weight
Lead		mg/kg dry weight
Mercury		mg/kg dry weight
Molybdenum		mg/kg dry weight
Nickel		mg/kg dry weight
Selenium		mg/kg dry weight
Zinc		mg/kg dry weight
pH		standard units
Total Solids		%
Other Parameters		

Date of Sample

4. Describe the manifest system used for tracking residuals during transport from the facilities.

SECTION 8. DOCUMENTATION SUBMITTED

1. General Application Requirements	Attached	
	Yes	No
a. Process Flow Diagram	XX	
b. Site Plan	XX	
c. Location Map	XX	
d. Agricultural Use Plan or Dedicated Site Plan		XX
e. Capacity Analysis Report		XX
f. Results of Whole Effluent Biological Toxicity Testing		XX
g. Reuse Feasibility Study		XX
h. Binding Agreements and Documentation of Controls on Individual Users of Reclaimed Water		XX

2. Additional Application Requirements for New Facilities and Modifications to Existing Facilities	Yes	No
a. Preliminary Design Report	N/A	
b. Documentation of Compliance with Antidegradation Requirements	N/A	
c. Public Service Commission Certification Number and Copy of Certificate or Order Number and Copy of Order	N/A	
d. Letter from the Management and Storage of Surface Waters Permitting Agency	N/A	
e. Request for Approval of Monitoring Plans for Discharge of Domestic Wastewater to Wetlands	N/A	
f. Concurrent Application for Ground Water Disposal by Underground Injection	N/A	
g. Application for Monitoring Plan Approval	N/A	

3. Additional Application Requirements for Permit Renewals	Yes	No
a. Operation and Maintenance Performance Report		X
b. Reclaimed Water or Effluent Analysis Report		XX
c. Technical Evaluation of Need to Revise Local Pretreatment Limits		XX
d. Results of Mechanical Integrity Testing		XX

SECTION 9. CERTIFICATIONS

1. Certifications for Construction of New Facilities or Modifications to Existing Facilities

a. Applicant or Authorized Representative

I certify that the statements made in this application for a permit and all attachments are true, correct, and complete to the best of my knowledge and belief. I agree to retain the design engineer, or another professional engineer registered in Florida, to conduct on-site observation of construction, to prepare a notification of completion of construction, and to review record drawings for adequacy as referenced in Rule 62-620.630, F.A.C. Further, I agree to provide an appropriate operation and maintenance manual for the facilities pursuant to Rule 62-620.630, F.A.C., and to retain a professional engineer registered in Florida to examine (or to prepare or revise, if necessary) the manual. For projects regulated by Chapter 62-610, F.A.C., I agree to provide the additional operation requirements of that Chapter.

_____ (Signature of Applicant or Authorized Representative ¹)	_____ Date
_____ Name (please type)	_____ Company Name
_____ Title	_____ Company Street Address or P O Box
_____ Telephone No. (including area code)	_____ City, State, Zip Code

b. Professional Engineer Registered in Florida

I certify that the engineering features of this domestic wastewater project have been (designed) (examined) by me and found to conform to engineering principles applicable to such projects. In my professional judgment, this facility, when properly constructed, operated, and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department.

_____ Name (please type):	_____ Company Name:
_____ Florida Registration Number:	_____ Company Street Address or P O Box
_____ Telephone No. (including area code)	_____ City/State/Zip Code:
_____	(Seal, Signature, Date, Registration No.)

¹ If signed by the authorized representative, attach a letter of authorization.

c. Professional Engineer Registered in Florida

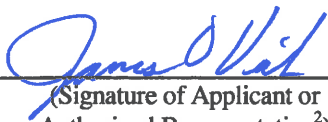
I certify that this firm or individual has been retained by the applicant to prepare a notification of completion of construction, to prepare operation and maintenance manuals, and to review record drawings for adequacy as referenced in Rules 62-620.630, 62-600.717, and 62-600.720, F.A.C.

Name (please type):	Company Name:
Florida Registration Number:	Company Street Address or P O Box
Telephone No. (including area code)	City/State/Zip Code:
(Seal, Signature, Date, Registration No.)	

2. Certifications for Permit Renewals

a. Applicant or Authorized Representative

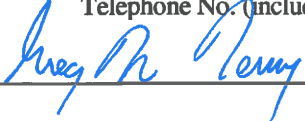
I certify that the statements made in this application for a permit and all attachments are true, correct and complete to the best of my knowledge and belief. I agree to operate and maintain these wastewater facilities in such a manner as to comply with the provisions of Chapter 403, F.S., Chapter 62-600, F.A.C., and all other applicable rules of the Department. Further, an appropriate operation and maintenance manual which has been examined by a professional engineer as certified below is available and located at N/A and can be submitted upon request as part of the permit procedure. A copy of the record drawings or other plans (as applicable) showing modifications to existing facilities, as referenced in Rule 62-600.717, F.A.C., is available at the same location. I also understand that a permit if granted by the Department, is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C., and I will notify the Department in accordance with this rule upon sale or legal transfer of the permitted facilities. In the event of abandonment or inactivation of the facilities, I will notify the Department and ensure that public health and safety are protected as required by Rule 62-620.610, F.A.C.

 (Signature of Applicant or Authorized Representative ²)	<u>12/8/09</u> Date
James O. Vick	Gulf Power Company
Name (please type)	Company Name
Director, Environmental Affairs	One Energy Place
Title	Company Street Address or P O Box
850-444-5311	Pensacola, Florida 32520-0328
Telephone No. (including area code)	City, State, Zip Code

² If signed by the authorized representative, attach a letter of authorization.

b. Professional Engineer

I certify that the engineering features of these domestic wastewater facilities have been examined by me and found to conform to engineering principles applicable to such projects. I certify that the operation and maintenance manual for these wastewater facilities has been prepared or examined by me or by individual(s) under my direct supervision and that there is reasonable assurance, in my professional judgement, that the facilities, when properly operated and maintained in accordance with this manual, will comply with all applicable statutes of the State of Florida and rules of the Department.

<u>Greg N. Terry</u>	<u>Gulf Power Company</u>
Name (please type):	Company Name:
<u>52786</u>	<u>One Energy Place</u>
Florida Registration Number:	Company Street Address or P O Box
<u>850-444-6144</u>	<u>Pensacola, Florida 32520-0328</u>
Telephone No. (including area code)	City/State/Zip Code:
<u> 12-08-2009</u>	(Seal, Signature, Date, Registration No.)