CHAPTER 1

GENERAL CONTENTS

Mine # C/041/0002
File Incoming
Record # 0022
Doc. Date 2·13·06
Recd. Date 2·13·06

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CHAPTER 1
GENERAL CONTENTS

110 Minimum Requirements for Legal, Financial, Compliance and Related Information

111 Introduction

For information pertaining to this section(s) refer to the General Chapter 1 binder for Canyon Fuel Company, LLC prepared for the Dugout Canyon Mine, Soldier Canyon Mine, SUFCO Mine, Skyline Mines and Banning Loadout operations.

112 Identification of Interests

112.100 Business Entity

For information pertaining to this section(s) refer to the General Chapter 1 binder for Canyon Fuel Company, LLC prepared for the Dugout Canyon Mine, Soldier Canyon Mine, SUFCO Mine, Skyline Mines and Banning Loadout operations.

112.200 Applicant and Operator

For information pertaining to this section(s) refer to the General Chapter 1 binder for Canyon Fuel Company, LLC prepared for the Dugout Canyon Mine, Soldier Canyon Mine, SUFCO Mine, Skyline Mines and Banning Loadout operations.

112.300 Control Persons

For information pertaining to this section(s) refer to the General Chapter 1 binder for Canyon Fuel Company, LLC prepared for the Dugout Canyon Mine, Soldier Canyon Mine, SUFCO Mine, Skyline Mines and Banning Loadout operations.

112.400 Coal Mining and Reclamation Operation Permit Applications Previous, Current or Pending

The following list describes all permits held by Canyon Fuel Company, LLC, all pending applications for permits, and any permit recognized as necessary in the future for which no application has been filed. Identification numbers of applications or permits are contained in the following list. Many of the agencies listed, however, have review responsibility only and may not have submitted a numbered permit.

Permit	Issuing Authority	Approval Status/ Identification No.
Mining and Reclamation Permit C/041/002	State of Utah Department of Natural Resources Division of Oil, Gas and Mining Department of Interior U.S. Geological Survey and Office of Surface Mining Department of Agriculture U.S. Forest Service Fishlake National Forest and Manti La Sal National Forest	Approved
U.P.D.E.S. Permit UT-0022198	Environmental Protection Agency and Utah D.E.Q.	Approved
Disposal for Water Discharge	Utah Department of Health	Approved
Business License	Sevier County	Approved
Mine Health and Safety Permits 42-00089	Mine Safety and Health Administration - Utah	Approved

ID No. 1211-UT-09-00089-01	Mine Safety and Health Administration	Waste Rock Disposal Area Construction Plan
Radio Permits	Federal Communications Commission	Approved
Certificate of Insurance and Authorization to do Business in State	State Industrial Development Commission	Approved
Public Water Supply Permit #21020	State of Utah Department of Health Division of Environmental Health	Approved
Radiation Control	State of Utah Department of Environmental Quality, Division of Radiation Control	Approved
Special Use 4078-2	U.S. Forest Service Fishlake National Forest	Approved
Air Quality Approval Orders	State of Utah Utah Air Conservation Committee Department of Health Division of Environmental Health	Approved
Water Rights	State Engineer	Approved

The Canyon Fuel Company, LLC mining permits and operations are:

SUFCO Mine	C/041/002
Skyline Mine	C/007/005
Soldier Canyon Mine	C/007/018
Banning Loadout	C/007/034
Dugout Canyon	C/007/039

The issuing authority for the Canyon Fuel Company, LLC permits is the UDOGM.

Operations held by subsidiary companies of Arch Coal, Inc. and corporate structure are presented on Figure 1-1 in the General Chapter 1 for Canyon Fuel Company, LLC. Facility names, mailing addresses and permit numbers for these operations are provided in either Table 1-1 and/or Table

1-2. For additional information refer to the General Chapter 1 binder for Canyon Fuel Company, LLC prepared for the Dugout Canyon Mine, Soldier Canyon Mine, SUFCO Mine and Skyline Mines and Banning Loadout operations.

112.500 Legal or Equitable Owner of the Surface and Mineral Properties

Owner of all the surface under Federal Coal Leases U-062453, SL-062583, U-0149084, U-047080, U-063214, U-28297, UTU-76195 and State of Utah Coal Lease ML 49443-OBA is:

United States of America
Department of Agriculture
U.S. Forest Service
Fishlake National Forest
115 East 900 North
Richfield, Utah 84701

United States of America
Department of Agriculture
U.S. Forest Service
Manti-La Sal Forest
599 West Price River Drive
Price, Utah 84501

United States of America
Department of Interior
Bureau of Land Management
Price Coal Office
125 South 600 West
Price, Utah 84501

Lessee for the Federal Coal Leases is:

Canyon Fuel Company, LLC
225 North 5th Street, 9th Floor
Grand Junction, CO 81501
Telephone: (970) 263-5130

Lessee for the State of Utah Coal Lease is:

Ark Land Company and Arch Coal Inc.
Cityplace One, Suite 300
St. Louis, MO 63141

The Bureau of Land Management owns the mineral rights for the Federal Coal Leases and the State of Utah owns the mineral rights for the State Coal Lease.

United States of America
Department of Interior
Bureau of Land Management
Price Coal Office
125 South 600 West
Price, Utah 84501

State of Utah
School and Institutional Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102-2818

The Applicant owns 640 acres of coal within the permit area. Surface ownership of these acres is listed below:

Neal J. Mortensen
c/o UNELCO, Inc.
Aurora, Utah 84620

Roger E. Nielsen and Ruth Nielsen
515 East 240 North
Salina, Utah 84654

Canyon Fuel Company, LLC
225 North 5th Street, 9th Floor
Grand Junction, CO 81501
Telephone: (970) 263-5130

A property ownership map of the permit area and adjacent area is presented as Plate 5-6.

No area within the lands to be affected by surface operations and facilities or within the area of coal to be mined is under a real estate contract.

Coal mining and reclamation operations are listed on Table 1-1 and the corporate structures is presented on Figure 1-1 in the General Chapter 1 binder.

112.600 Owners of Record of Property Contiguous to Proposed Permit Area

The following list contains the names and addresses of all owners of surface lands contiguous to the permit boundary:

United States of America
Department of Agriculture
U.S. Forest Service
Fishlake National Forest
115 East 900 North
Richfield, Utah 84701

United States of America
Department of Agriculture
U.S. Forest Service
Manti-La Sal National Forest
599 West Price River Drive
Price, Utah 84501

State of Utah
School and Institutional Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102-2818

United States of America
Department of Interior
Bureau of Land Management
Price Coal Office
125 South 600 West
Price, Utah 84501

The following list contains the names and addresses of the owners of mineral acreage contiguous to the permit boundary:

State of Utah
School and Institutional Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102-2818

United States of America
Department of Interior
Bureau of Land Management
Price Coal Office
125 South 600 West
Price, Utah 84501

112.700 MSHA Numbers

Mine ID No. 42-00089, Waste Rock ID No. 1211-UT-09-00089-01.

112.800 Interest in Contiguous Lands

The applicant owns or controls, directly or indirectly, no legal or equitable interest in any lands contiguous to the permit area.

112.900 Certification of Submitted Information

Canyon Fuel Company, LLC hereby attests that the information contained in this permit document is true and correct to the best of their knowledge.

113 Violation Information

For violation information refer to Table 1-2 in the General Chapter 1 binder for Canyon Fuel Company, LLC prepared for the Dugout Canyon Mine, Soldier Canyon Mine, SUFCO Mine, Skyline Mines and Banning Loadout operations.

114 Right-of-Entry Information

Copies of documents granting the legal right to enter and begin underground coal mining activities have not changed with the acquisition. They can be found in Appendix 1.1 Mining and Reclamation Plan for the SUFCO Mine, which is unmodified by this Notice of Change in Ownership and Control Information.

The right to enter the leaseholds conveyed by the Federal Coal Leases is conferred to the lessee by the Mineral Leasing Act of 1920 and the leases themselves. Copies of Federal Coal Leases U-47080, U-28297, U-62453, U-149084, U-63214, UTU-76195, SL-062583 and State of Utah Coal Lease ML 49443-OBA which grant the right to enter and conduct underground mining operations

on the leased premises are presented in Appendix 1-2 Mining and Reclamation Plan for the SUFCO Mine. Appendix 1-2 is unmodified by this Notice of Change in Ownership and Control Information.

Federal Coal Lease SL-062583 grants the right to use lands for the construction and utilization of surface facilities necessary for underground coal mining.

The legal description of the SUFCO coal leases:

Federal Coal Lease U-28297 - (2,631.98 acres) - Approved January 1979
- T. 21 S., R. 5 E., SLM, Utah
  - Sec. 32, lots 1-4, N1/2S1/2
  - Sec. 33, lot 1, NW1/4SW1/4
- T. 22 S., R. 5 E., SLM, Utah
  - Sec. 4, lot 4, SW1/4NW1/4, W1/2SW1/4
  - Sec. 5, all;
  - Sec. 7, S1/2NE1 /4, E1/2SW1/4, SE1/4;
  - Sec. 8, all;
  - Sec. 17, NE1/4, N1/2NW1/4
  - Sec. 18, NE1/4, E1/2NW1/4

Federal Coal Lease U-062453 - (480 acres) - Approved March 1962
- T. 21 S., R. 5 E., SLM, Utah
  - Sec. 28, SW1/4SW1/4
  - Sec. 29, SE1/4SE1/4
  - Sec. 32, N1/2
  - Sec. 33, W1/2NW1/4

Federal Coal Lease U-0149084 - (240 acres) - Approved June 1966
- T. 22 S., R. 4 E., SLM, Utah
  - Sec. 12, NE1/4 and N1/2SE1/4

Federal Coal Lease SL-062583 - (2,202.77 acres) - Approved September 1941
Modified January 1973
- T. 21 S., R. 4 E., SLM, Utah
  - Sec. 36, S1/2
- T. 21 S., R. 5 E., SLM, Utah
  - Sec. 31, all;
- T. 22 S., R. 4 E., SLM, Utah
  - Sec. 1, lots 1 to 4 incl. S1/2N1/2, S1/2
  - Sec. 12, NW1/4
- T. 22 S., R. 5 E., SLM, Utah
  - Sec. 6, all;
  - Sec. 7, N1/2NE1/4, E1/2NW1/4

Federal Coal Lease U-47080 - (1,158.05 acres) - Approved October 1981

T. 21 S., R. 4 E., SLM, Utah
Sec. 25, all;
Sec. 36, N1/2
T. 21 S., R. 5 E., SLM, Utah
Sec. 30, lots 2-4, W1/2SE1/4.

Federal Coal Lease U-63214 - (10,055.46 acres) - Approved July 1989
Modified June 1999

T. 21 S., R. 4 E., SLM, Utah
Sec. 12, E1/2SE1/4
Sec. 13, E1/2NE1/4, S1/2
Sec. 14, E1/2SW1/4, SE1/4
Sec. 23, E1/2, E1/2W1/2
Sec. 24, all.
T. 21 S., R. 5 E., SLM, Utah
Sec. 10, SE1/4NW1/4, E1/2SW1/4, E1/2E1/2SW1/4SW1/4, E1/2E1/2NW1/4SW1/4, E1/2E1/2SW1/4NW1/4
Sec. 15, W1/2
Secs. 16-21, all;
Sec. 22, W1/2
Sec. 26, W1/2NW1/4SW1/4, SW1/4SW1/4
Sec. 27, all;
Sec. 28, N1/2, N1/2SW1/4, SE1/4SW1/4, SE1/4
Sec. 29, E1/2NE1/4, NE1/4SE1/4
Sec. 30, lot 1, N1/2NE1/4
Sec. 33, lots 2-4, NE1/4, E1/2NW1/4, NE1/4SW1/4, N1/2SE1/4
Sec. 34, all;
Sec. 35, lots 1, 2, W1/2NW1/4, N1/2SW1/4.

T. 22 S., R. 5 E., SLB&M, Utah
Sec. 3, lots 1-4, S1/2N1/2, NE1/4SW1/4, S1/2SW1/4, N1/2SE1/4, SW1/4SE1/4
Sec. 4, lots 1, 2, S1/2NE1/4, SE1/4SE1/4
Sec. 9, NE1/4NE1/4
Sec. 10, W1/2NE1/4, NW1/4, N1/2SW1/4.

Federal Coal Lease UTU-76195 - (7,171.66 acres) - Approved October 1999
T. 20 S., R. 5 E., SLM
Sec. 35, S1/2NE1/4, SE1/4NW1/4, NE1/4SW1/4, S1/2SW1/4, SE1/4
Sec. 36, W1/2SW1/4, SE1/4SW1/4

T. 21 S., R. 5 E., SLM
Sec. 1, lots 3-4, S1/2SW1/4, SW1/4 SE1/4
Sec. 2, lots 1-4, S1/2S1/2
Sec. 10, E1/2
Sec. 11-14 all
Sec. 15, E1/2

Sec. 22, E1/2
Sec. 23-24, all
Sec. 25, N1/2, N1/2S1/2
Sec. 26, N1/2, NE1/4SW1/4, E1/2NW1/4SW1/4, SE1/4

T. 21 S., R. 6 E., SLM
Sec. 19, lots 3-4, E1/2SW1/4
Sec. 30, lots 1-3, E1/2NW1/4, NE1/4SW1/4

State of Utah Coal Lease ML 49443-OBA - (2,134.19 acres) - Approved October 2004
T. 21 S., R. 5 E., SLB&M
Sec. 4: Lots 1, 2, 3, 4, S1/2S1/2
Sec. 5: Lots 1, 2, 3, 4, S1/2S1/2
Sec. 7: Lots 2, 3, 4, S1/2NE1/4, SE1/4
Sec. 8: All
Sec. 9: All

Canyon Fuel Company, LLC acquired the right to entry on these properties in the merger described in Section 111 hereinabove.

In addition, the SUFCO Mine permit area includes certain fee lands owned by Canyon Fuel Company, LLC as follows:

T. 21 S., R. 5 E., SLB&M, Utah
Sec. 29, SW1/4, NW1/4, W1/2NE1/4, W1/2SE1/4
Sec. 30, S1/2NE1/4, E1/2SE1/4
containing 640.00 acres
T. 22 S., R. 4 E., SLB&M, Utah
Sec. 18, NW1/4NE1/4
containing 40 acres

The name of the owner of these fee lands changed from Coastal States Energy Company to Canyon Fuel Company, LLC as a result of the merger transaction described in Section 111 hereinabove.

The SUFCO Mine also uses certain Forest Service lands in its operation for a spring collection system, pumphouse, water transmission line, sanitary discharge line, sanitary drainfield, access road to the sediment pond, and 25 KV powerline. These USFS special use permit areas are shown on Plate 5-6 through portions of:

T. 22 S., R. 4 E., SLB&M, Utah
Sec. 12, S1/2
containing 13.03 acres

The name of the permittee changed from Southern Utah Fuel Company to Canyon Fuel Company, LLC pursuant to the merger described in Section 111 hereinabove.

115 Status of Unsuitability Claims

To the best knowledge of Canyon Fuel Company, LLC, no portion of the area to be permitted is designated, or under study for being designated, unsuitable for mining.

Since the SUFCO Mine was in production before passage of the Surface Mining Control and Reclamation Act of 1977, the unsuitability criteria were not applied to the existing surface facilities.

Canyon Fuel Company, LLC does not propose to conduct coal mining or reclamation operations within 300 feet of any occupied dwelling. Coal mining and reclamation operations have been or will be conducted within 100 feet of a public road, see Section 5.2.1.1 for details. Forest Service approval to conduct coal mining and reclamation operations within 100 feet of the Link Canyon forest service road is located in Appendix 1-1 and the newspaper advertisement for public comment is located in Appendix 1-3.

116 Permit Term

The following information is presented to identify permit term requirements and stipulations. Canyon Fuel Company will be operating the SUFCO Mine with continuous miner and longwall mining methods. Although the Mining and Reclamation Permit Application covers the next five-year period of mining, information is presented below for the life of the mining operation.

1.	First coal produced	1941
2.	Termination of mining activity	December, 2016
3.	Horizontal extent of mine workings	26,767.14 acres (Life of mine)
4.	Vertical extent of mine workings	Surface to 2,000 feet deep (Life of mine)

The anticipated total acreage to be affected during the five years of operation by underground mining activities is 1,500 acres. The estimated number of total surface acres to be affected over the entire mining operation is 46.306 acres.

PERMITTED DISTURBED AREA BOUNDARY	ACTUAL AREA CURRENTLY DISTURBED TO BE RECLAIMED	SITE DESCRIPTION
28.084	16.758	Mine Site, East Spring Canyon
0.286	0.017	3 East Portals
1.774	0.70	4 East Portals
0.302	0.017	South Portals
0.396	0.017	Quitchupah Portals
0.967	0.39	Spring Collection Field, Convulsion Canyon
0.220	0.075	Pump House, Convulsion Canyon
0.784	0.40	Leach Field, Convulsion Canyon
1.595	0.193	Water Tank, East Spring Canyon
0.287	0.18	Substation, Link Canyon No. 1
0.245	0.12	Substation, Link Canyon No. 2
0.380	0.18	Link Canyon Portal
10.986	8.733	Waste Rock Disposal Site
46.306	27.780	Totals

The permit area, which is the same as the lease area legal descriptions in Section 114, includes 23,939.92 acres of Federal coal leases, 2,134.19 acres of State of Utah coal leases, 640 acres of fee coal leases, the 40 acres waste rock disposal site and 13.03 acres under U.S. Forest Service special use permit for a total of 26,767.14 acres.

117 Insurance and Proof of Publication

Certificates of Insurance issued to Canyon Fuel Company, LLC are located in the General Chapter 1 binder prepared for the Dugout Canyon Mine, Soldier Canyon Mine, SUFCO Mine, Skyline Mines and Banning Loadout operations and in Appendix 8-1.

The newspaper advertisement appears in Appendix 1-3. Verification of the advertisement appearing in the appropriate newspapers will be added to Appendix 1-3 and submitted to the Division no later than 4 weeks after publication.

118 Filing Fee

A photocopy of the receipt is presented in Appendix 1-4 as proof of payment of the permit filing fee.

120 Permit Application Format and Contents

The permit application contains clear, concise, current information, in the format required by the UDOGM.

130 Reporting of Technical Data

All technical data submitted in the permit application is accompanied by the names of persons or organizations that collected and analyzed the data. The technical data also contains the dates of collection and analysis of the data, and descriptions of the method used to collect and analyze data. A professional qualified in the subject, planed or directed the technical analyses.

140 Maps and Plans

The maps submitted in this permit application correspond to the format required by the regulations.

Those portions in the mine plan area in which underground coal mining activities occurred before August 3, 1997, and from August 3, 1977 to May 3, 1978 are presented on Plate 5-1.

150 Completeness

The Applicant believes the information in this permit application to be compete and correct.

CHAPTER 2

SOILS

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2-2 Soil Types Pines Tract

2-3 Soil Types SITLA Muddy Tract

LIST OF APPENDICES

(Appendices appear in Volume 4)

Appendix

2-1 Prime Farmland Determination Documents

2-2 Report of Studies of Vegetation and Soils for SUFCO Mine

2-3 Water and Soil Data Report

2-4 Submittal of Drainage Plan and Slope Stability for Reclamation for Convulsion Canyon Mine, Sergent, Hauskins & Beckwith

2-5 Final Reclamation Cut and Fill Quantities

2-6 Link Canyon Substation Soils Investigation

2-7 (Revisions have eliminated this appendix)

2-8 Pines Tract Soils Types

2-9 Link Canyon Portal Vegetation, Aquatic Fauna, and Soil Investigations

2-10 Muddy Tract Soils Types

2.20 Environmental Description

The SUFCO Mine area lies in central Utah at the southern end of the Wasatch Plateau. Topography is dominated by plateaus separated by deeply incised canyons. Canyon walls are generally composed of laterally continuous (several thousand feet) ledge-forming sandstones, interbedded with slope forming shales and siltstones. Topography in the SUFCO Mine area ranges from 6500 to about 9,000 feet above sea level. Soils are generally not cultivated due to their thin nature, shortage of irrigation water, and a short growing season. Residual and colluvial soils are present at the SUFCO Mine surface facilities area. These soils have formed from residual sandstone and shale particles that mixed as they migrated down slope. Soils are usually very shallow, consisting predominantly of sand and silty sand loams which have high percolation rates. The soils are highly susceptible to wind erosion. The inherent erosion hazard from water is low. Rock outcrops consist of alternating layers of sandstone and shale. Subordinate amounts of coal and limestone are also present. The landscape is steep and rocky with massive sandstone ledges, and siltstone/shale slopes. Surface and subsurface layers are often rocky.

2.2.1 Prime Farmland Investigation

No prime farmland exists in the SUFCO Mine disturbed area, Link Canyon disturbed area, or in any of its lease areas. Mining activities will not impact prime farmland. In compliance with R645-302-313, a pre-application investigation was conducted by the Applicant to determine if any prime farmland would be impacted by the project. Based on the federal criteria for determining the presence or absence of prime farmland, the Convulsion Canyon area, Link Canyon, the Pines Tract area, and the SITLA Muddy Tract area cannot be classified as prime farmland. Consultation with Dr. Theron B. Hutchings, State Soil Scientist for the Soil Conservation Service, substantiated the absence of prime farmland in the Convulsion Canyon and Link Canyon areas. (Appendix 2-1).

2.2.2 Soil Survey

A Level I soil survey of the entire SUFCO Mine disturbed area, including the Link Canyon Substations No. 1 and 2 , has been conducted. Soil survey data are presented in Appendix 2-2 for the majority of the permit area, Appendix 2-6 for the Link Canyon Substation areas, and are herein summarized in Sections 2.2.2.1 through 2.2.2.3. Survey data includes the following information:

taxonomic classification, horizon name and depth, dry and moist color, texture (percent sand, silt, and clay), class, structure, percent rock fragments and organic matter, pH, effervescence, EC, and solubility of calcium, magnesium, and sodium (Appendices 2-2, and 2-6). A cross-reference list of map unit, soil taxonomic classification, and sample site appears in pages 17 through 19 of Appendix 2-2.

An Order 2 soil survey has been completed for the Link Canyon Substation No. 1 disturbed area and is included in Appendix 2-2. Additionally, an Order 1 soil survey was conducted of the substation Nos. 1 and 2 pad areas and the results are included in Appendix 2-6.

An Order 3 soil survey has been conducted for the Pines Tract and the results are included in Appendix 2-8. (Plate 2-2)

An Order 3 soil survey has been conducted for the SITLA Muddy Tract and the results are included in Appendix 2-10. (Plate 2-3)

2.2.2.1 Soils Map

Plates 2-1 and 2-2 delineates the soil types present in the disturbed and adjacent areas.

2.2.2.2 Soil Identification

Soils present in the narrow V-shaped East Spring Canyon, which lie within and immediately adjacent to the disturbed area of the SUFCO Mine have been identified, characterized, and their spatial occurrences documented (Appendix 2-2). Four soil types are present in the disturbed area, and are herein referred to as soil types O, W, T, and X (Plate 2-1). Soil type O is a loamy-skeletal, mixed, frigid Ustic Torriorthent. Soil W is a loamy-skeletal, mixed, frigid Typic Xerothent. Soil type T is a loamy-skeletal, mixed, frigid, Calcixerollic Xerochrept. Soil X is a complex composed of both a clayey-skeletal, mixed, frigid, shallow Lithic Calcixeroll, and a fine, mixed, frigid Mollic Haploxeralf.

The Mollic Haploxeralf soil is characterized by an A, AC, and Cca soil horizons. The surficial A horizon extends to 5 inches below ground level, and is a very dark brown (10YR 2/2) sandy clay loam. It is typically composed of 59% sand, 15% silt, and 26% clay. Gravel accounts for only 5% by volume of this horizon. Percent organic matter is about 7%. A pH of 7.63 and an EC of 1620 mmhos/cm are present. The soluble concentrations (ppm) of Ca, Mg, and Na are 168, 72, and 26, respectively.

The underlying AC soil zone occurs between 5 to 14 inches below the surface, and is a pale brown (10YR 6/3) clay. Clay is the dominant constituent comprising 44% of this zone, silt (39%) and sand (17%) are also present. Rock fragments make up 20% (5% gravel, 15% cobbles) of this horizon, by volume. An organic matter value of 3.8%, a pH level of 7.48, and an EC of 6340 mmhos/cm characterize this soil horizon. Solubilities of Ca, Mg, and Na are 517, 279, and 317 ppm, respectively.

The basal soil horizon, Cca, a light brownish gray clay, typically extends to depths of 34 inches where bedrock is encountered. Cca is composed of 52% clay, 37% silt, and 11% sand. Rock fragments comprise 40% (10% gravel, 20% cobbles, 10% stones) of this horizon. Percent organic matter is only 1.7. PH and EC values are 7.87 and 9590 mmhos/cm, respectively.

Link Canyon Soils

A description of the soils located in the Link Canyon Substation Nos. 1 and 2 disturbed areas is provided in Appendix 2-6.

Link Canyon Mine Portals

A description of the soils located in the Link Canyon Mine Portals area is provided in Appendix 2-9. The description of the soils was prepared by Dan Larsen, a soils scientist with EIS Environmental and Engineering Consultants.

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BIOLOGY

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Field sampling of these plant communities was initially done in July of 1983 and the findings were documented in the INV report. A Level II riparian inventory has been conducted along portions of East Fork of Box Canyon (USDA-USFS, 1993). The plant communities and reference areas are outlined on Plate 3-1. In 1999, another vegetation (and wildlife) report (VWP) was prepared for the proposed mine expansion called the Pines Tract Project. Vegetation communities were described and shown on a map included in that document, most of which are also listed in the plant communities shown above. The vegetation types in the SITLA Muddy Tract were identified by Cirrus and reported in EIS documents for the entire BLM and SITLA Muddy Tract. The vegetation types in the SITLA Muddy Tract are illustrated on Plate 3-1. This plate will be updated in the appropriate season of 2006 to more clearly indicate types and extent of vegetation in the SITLA Muddy Tract. As of October 2005, the available Forest Service information used to create the map is essentially correct but Sufco has agreed the vegetation boundaries and descriptions can be further refined. The work to be performed in 2006 will include the evaluation of available aerial photos of the area by a qualified person who then will create an updated vegetation map of the tract. The updated version of the plate will be submitted to the Division before the end of 2006.

A description of the potential impacts of mining on vegetation is included in Section 3.3.3.3 of this permit.

3.2.1.2 Land Productivity Prior to Mining

The land productivity of the mine area was not measured in 1941 when mining began. However, Appendix 2-2 contains a consultant study (EPS, pgs. 45 - 78) compiled in 1980, which states total cover, production pounds per acre and species within the permit area. Additional information was presented in INV Report, August 12, 1983 (Appendix 3-1).

3.2.2 Fish and Wildlife Information

A summary of the fish and wildlife resource information for the permit and adjacent areas is contained in Sections 3.2.2.1 through 3.2.2.3. As mentioned above, a wildlife report was included with a vegetation report in 1999 (VWP) for the proposed mine expansion called the Pines Tract Project. Fish and wildlife resources in the SITLA Muddy tract are as described in Sections 3.2.2.1

through 3.2.2.3 and in the "Muddy Creek Summary Report - Wildlife" prepared by Cirrus and included as Appendix 3-11. A description of the potential impacts and mitigation of impacts of mining on fish and wildlife is included in Section 3.3.3.3 of this permit.

Due to either their small size, intermittent flows, poor habitat or water quality, the surface waters in the lease area are not of game fish quality. The low importance of the streams as a fishery resource, has categorized them as being of little value for extensive study. An inventory of the aquatic resources is located in Appendix 3-2. Aquatic resources of the Pines Tract Project are briefly described in the wildlife section of Appendix 3-9. Aquatic resources within the Muddy Tract are summarized in Appendix 3-11.

3.2.2.1 Level of Detail

The scope and level of detail within this M&RP are sufficient to design the protection and enhancement plan for wildlife and fish in the area.

This assessment of wildlife resources has been compiled pursuant to guidelines issued by the State of Utah Division of Oil, Gas and Mining (UDOGM). Appendices 3-3, 3-4, 3-5, and 3-9 contain wildlife studies related to their resources in the mine area.

3.2.2.2 Site-specific Resource Information

The following information was summarized from the WIL, RAP, AQU, and VWP Reports. Additional information is available in Appendix 3-2 through 3-5, and 3-9.

Reptiles and Amphibians

Increasing elevation rapidly reduces the number and kind of reptiles and amphibians. Furthermore, in Utah the effects of the more northern latitude reduces the number of reptiles in much the same way as does the increase in elevation.

These geographical and associated climatic factors have eliminated most desert species, leaving species that are adapted either to mountain habitats or montane type habitats developed in the more northern areas.

Literature pertaining to the amphibians and reptiles is extensive; but, much of it refers to species occurring in the desert areas and has only limited reference to forms inhabiting Utah mountains.

Based on the extensive literature review and limited field work it was determined that potentially 8 species of amphibians (Appendix 3-5) inhabit the area of concern which provides substantial value habitat . All amphibians are legally protected, but since the species listed are all widespread throughout the mountains of Utah, none are treated as high-interest species. It is doubtful that the proposed action would seriously impact populations, but localized individuals may be involve in habitat destruction due to subsidence. An exception to this would be if subsidence interrupted underground aquifers and caused drying of present wet habitats essential to reproduction.

Based on the literature search and limited field work, it was determined that potentially 14 species of reptiles (Appendix 3-5) occupy the mine land area, a substantial value habitat for all species. All reptiles are legally protected but since the species listed are all widespread throughout montane habitats in Utah, none are treated as high-interest species and, therefore, are not individually discussed. It is doubtful that the proposed action would seriously impact populations.

Information about reptiles and amphibians specific to the Pines Tract Project area is provided in the VWP report (Appendix 3-9). Information about reptiles and amphibians specific to the Muddy Tract area is provided in the Cirrus report (Appendix 3-11).

Wetlands and riparian areas exist within the permit area and have been estimated to represent less than one percent of the total acreage within Pines Tract Project Area and SITLA Muddy Tract. These areas are supported by streams, springs, and seeps located throughout the drainages. Studies in the semi-arid West comparing riparian areas with adjacent uplands showed that riparian zones support up to 400 percent more plant biomass, up to 200 percent more species, and

contribute to large increases in density and species richness for birds when compared to upland areas.

Between 69% to 92% of all amphibian occur in wetland ecosystems. The scaleless, permeable amphibian skin requires constant moisture to retain body fluids. Both water quantity and quality parameters are of importance to the survival of individual amphibians and ultimately populations of the species.

Reptiles are not nearly as dependent on wetlands since their scaly covering provide resistance to desiccation. Riparian areas are heavily utilized (50% to 72% of all species) for the available drinking water, prey, and vegetative resource (cover). The moist soil characteristic of riparian zones also provide preferred nesting habitat for many reptiles.

The riparian areas for the Pines tract Project Area, Link Canyon, and SITLA Muddy Tract are shown on Plate 3-1. A survey for amphibians and mollusks was conducted in the Link Canyon Portal area in June of 2002. No amphibians or mollusks where found in the portal area nor where any protected or sensitive species found in the area. A copy of a report of the investigation is contained in Appendix 2-9.

Raptors

Only one nest, that of a Cooper's Hawk, was found in 1980 (Appendix 3-4). The one Cooper's Hawk nest found was in an area seemingly less favorable than surrounding canyons. Quitchupah Canyon appeared to be prime habitat, but no nests were found.

Golden Eagles were seen on nearly every survey day during the 1980 survey by Clayton White of Brigham Young University (Appendix 3-4). The presence of two adults accompanied by a juvenile suggest their nearby breeding, however no nests were located.

Appendix 3-4, Table 1 contains a list and the number of sightings for the birds inventoried during the 1980 raptor survey.

A raptor survey conducted April 14, 1987, located three Golden Eagle nests (Appendix 3-4). Two of the nests were tended and contained greenery, the third had an adult eagle incubating eggs.

In October of 1988 an environmental assessment of the Quitchupah Lease area was performed by personnel from the Forest Service and Bureau of Land Management. During the assessment 6 Golden Eagle nests were located.

The SUFCO Mine portions of the annual raptor surveys conducted by UDWR are located in Appendix 3-4 in the Sufco Mine MRP Confidential file. The annual raptor surveys will be submitted each year in the annual report to the Division.

Most raptor nest locations are located outside the current planned mining subsidence areas. Any raptor nest that has a potential to be disturbed by subsidence will be evaluated with DWR and FWS. An appropriate plan of action will be developed on a case by case basis.

The Prairie Falcon has also been reported by U.S. Forest Service and Bureau of Land Management personnel for the planning unit that encompasses the SUFCO Mine area.

The Quitchupah Drainage, of which Link Canyon is a tributary, was identified in the Quitchupah Creek Road DEIS (2001) as not likely to contain Mexican Spotted Owls and dedicated surveys were not necessary. However, the Manti-La Sal National Forest reported that a Mexican Spotted Owl survey of the area was being conducted as part of their Muddy Creek EIS Data Adequacy study. Results of surveys conducted in 2002 and 2003 indicated no Mexican Spotted Owls were found in the Link Canyon Portal area or the Muddy Tract area (Appendix 3-12). Additionally, Sufco does not plan to conduct construction activities during the nesting and rearing times (February 1 through August 31) of the owl.

The lack of permanently running water has an effect on raptors. Many species, such as accipiters, appear to rely on streams and the associated riparian vegetation (Hennessy, 1978).

Any area with suitable habitat where raptor nests could be adversely affected by subsidence will be monitored for both known and potential new nests on a yearly basis using a helicopter flight near the end of May. Known raptor nests are shown on Plate 3-3. Personnel from Utah State DWR or Federal FWS will be included on the flight.

Information about raptors specific to the Pines Tract Project area is provided in the VWP report (Appendix 3-9). Information about raptors specific to the Muddy Tract area is provided in the Cirrus report (Appendix 3-11).

Elk

The elk herd (#14) is a significant wildlife resource to the citizens of Utah and there is considerable hunting pressure. Winter and summer range is in generally good conditions, but drought is an immediate concern (Big Game Annual Report, 1991).

Although the potential area of impact is not critical to the continued existence and perpetuation of the herd, it is important to maintenance of current population levels, and portions of the entire lease area are used annually on a seasonal basis. The aspen areas of Duncan Mountain serve as calving areas for the small herd, (10-20 animals observed during the 1980 summer in that area) but based on pellet counts (WIL, Table 7) the major portion of the lease area is utilized in late fall, winter, and early spring.

In May, while there was still snow on the ground, considerable fresh elk sign (pellets and tracks) was found around the Acord Lakes. By June 5, 1980, when access was available to the other areas, elk tracks were concentrated in the ponderosa, mahogany, aspen and manzanita communities along the ridges and rims of the canyon, plus in the canyons such as Duncan's Draw and Lizonbee Springs. During the summer the elk and elk signs were sighted near the top of Duncan Mountain and at the head of the South Fork of Quitchupah. It seems that the elk in question do not always winter on the rims nor the plateau but in the lower elevation areas to the southeast. This observation was substantiated by a conversation with a local forest ranger out of Richfield. The amount of snow is probably the determinant, with the elk wintering wherever there is available forage from the rim to the low brush areas in the southeast.

The fact that elk utilize the entire area of concern during some time of the year means that all aspects and timing of the actions must be considered. However, since the SUFCO Mine has been operational since the early 1940's and since there are no plans for additional surface facilities other than ventilation portals along the cliffs, there should be little additional disturbance to the elk. The animals have already accommodated the human disturbance associated with the mining and hauling of coal.

Information about elk winter-range and migration routes specific to the Pines Tract Project area is provided in the VWP report (Appendix 3-9). Information about elk winter-range and migration specific to the Muddy Tract area is provided in the Cirrus report (Appendix 3-11).

Mule Deer

Mule deer on the mine area are considered part of Herd Unit 43 by the UDWR. The animals in the environs of concern utilize the entire assessment area but seasonally concentrate in and more heavily utilize specific habitat types.

During the summer the mule deer generally utilize all of the habitats near watering areas. The most heavily used communities were the sage, mountain brush and the composite of aspen, mountain mahogany, manzanita and ponderosa. This is as expected since there is considerably more browse in these communities than in the others sampled.

With the onset of fall and winter the mule deer latitudinally migrate. Initially (late fall and early winter) they concentrate on the plateau area where they intermingle with the elk but when the snow gets too deep for them to traverse they move into the low elevation sage, and pinyon juniper areas to the southwest. The wintering areas for mule deer make them susceptible to road strikes in the vicinity of the haul and access road for the SUFCO Mine and Interstate 70.

Information about mule deer winter-range and migration routes specific to the Pines Tract Project area is provided in the VWP report (Appendix 3-9). Information about mule deer winter-range and migration specific to the Muddy Tract area is provided in the Cirrus report (Appendix 3-11).

Cougar

The entire SUFCO Mine area provides substantial value, and yearlong habitat for cougar. The animal ranges throughout the area as evidenced by a sighting one third of the way down the slope in Quitchupah Canyon, one half mile below the confluence of South Fork, and tracks in the mud near Jack Adley's Monument, Broad Hollow, and in the dust of the road near Acord Lakes. Though animals range throughout the area, their movements are often dictated by migration patterns of their primary food source (mule deer) and human disturbance. Concern must be given to the cougars particularly when the females are accompanied by their young who are learning to hunt and survive. This is considered a sensitive period for cougars and it is best if disturbance is minimized during this time. However, this period in their life cycle is difficult to determine for cougars since they are known to reproduce year round.

Bobcat

The mine and adjacent areas provide substantial value habitats for bobcats, who were evidenced, by sightings and tracks, to occupy or use all terrestrial habitats on the entire area of potential impact. Sensitive periods would be late February when parturition occurs, May and June when young bobcats are first exploring and learning to hunt. Bobcats are not as secretive as cougar, making them less likely to avoid the high human disturbance areas and making them more vulnerable to open human harassment and illegal killing. Since this is an ongoing mining operation, pressures on bobcats should be unchanged.

Black Bear

Bear tracks were observed in Broad Hollow, but Forest Service personnel indicated to us that most of the bear sightings occurred on White Mountain. At best black bear are not abundant nor are they active year round. Sensitive periods in the life cycle of the black bear are February and March when the cubs are born and when they accompany their mother on initial foraging expeditions during early summer. Since parturition occurs within the winter den and since disturbance in the black bear habitat will be limited to subsidence, this sensitive period will be little impacted by the proposed action.

Mountain Cottontail

The entire mine area provides substantial value, and yearlong habitats for cottontail rabbits. The young are born between April and July which is considered a sensitive period, but the proposed actions will in all probability not seriously alter the reproductive potential of the population. Hunting pressure will likely not increase, nor will illegal kills. However, this would not matter since hunted rabbit populations are more healthy and stable than non-hunted populations. Subsidence could potentially cause death from caving burrows and disrupt reproduction for a short time.

Snowshoe Hare

The snowshoe hare is present in and dependent upon the limited spruce-fir vegetation habitat of the mine area year round. The sensitive period for reproduction is from April 1 to August 15. Subsidence will not impact the above ground dweller as it does subterranean inhabitants. Little change in snowshoe hare populations will result from the proposed actions. Hunting pressure, legal and illegal, will be the most influential activity of man upon snowshoe hares, but will be of little far reaching impact.

Fur bearers

Limited portions of the mine and adjacent areas provide substantial value habitats for a few species categorized by management agencies as fur bearers: ermine, long-tailed weasel, badger and the striped skunk. The breeding and rearing activities of these non-migratory species occurs within the area and their dens and burrow systems are important to maintenance of their populations, but it is unlikely that the proposed actions will seriously impact them for any length of time. Subsidence will be localized and new burrows will be built or old ones reconstructed after it occurs. These species are widespread and adaptable to the activities of man.

Small Mammals

Small mammals represent a significant part of the ecosystem. The majority are herbivores and are the primary source of food for higher trophic levels, particularly raptorial birds, canids and felids. The potential exists for caving burrows in and/or changing burrow continuity due to fracturing of the strata. Should this occur, it is likely that young mammals in the nest would be crushed or cut off from parental care. Although this would temporarily alter the population density and age structure,

recovery would be imminent and rapid. The 1997 Bat Survey for the SUFCO Mine conducted by J. Mark Perkins & Joshua R. Peterson is included in Appendix 3-8.

Information about small mammals specific to the Pines Tract Project area is provided in the VWP report (Appendix 3-9). General information about small mammals specific to the Muddy Tract area is provided in the Cirrus report (Appendix 3-11).

Threatened and Endangered Plant and Wildlife Species. Passage of the Endangered Species Act of 1973 (Public Law 23-20S) provided the legal basis for establishment of lists of endangered and threatened plant species. Such lists were prepared under direction of the Smithsonian Institution, and were published subsequently in the Federal Register (40: 2782 427924, 1975; and 41: 2452 4 24572, 1976). The region under investigation was included in a report on threatened and endangered species of the Central Coal lands of Utah (Welsh 1976). An inventory of endangered wildlife species performed in 1989 by the Division of Wildlife Resources recorded no species within the proposed permit area (conversation with Pamela Hill, DWR, Cedar City, 1991). Table 3-1 provides a list of Federally listed Threatened and Endangered Species that have been identified in the Utah counties in which Sufco lies. However, this list does not necessarily indicate these species are found within the mine permit boundaries.

A survey of the literature has failed to indicate the presence of any endangered or threatened plant species in the area. This lack of critical or unique species is supported by the field surveys of the lease areas. The region was searched by walking parallel transects on a quarter-section by quarter-section basis, with each community type within each quarter-section being traversed. No endangered or threatened species were encountered in the lease area or in the adjacent areas. There are no federally listed threatened or endangered fish species inhabiting the aquatic habitat.

A discussion about threatened, endangered or otherwise sensitive plant and animal species of the Pines Tract Project area is given in Appendix 3-9. A discussion about threatened, endangered or otherwise sensitive plant and animal species of the Muddy Tract area is provided in the Cirrus report (Appendix 3-11).

Table 3-1

Federal Listed and Proposed Endangered Species in Utah

Sevier and Emery Counties

January 2005 (Revised)

Plants		**Status**
Barneby Reed-Mustard	Schoenocrambe barnebyi	E
Heliotrope Milk-Vetch	Astragalus montii	T
Jones Cycladenia	Cycladenis humilis var. jonesii	T
Last Chance Townsendia	Townsendia aprica	T
Maguire Daisy	Erigeron maguirei	T
San Rafael Cactus	Pediocactus despainii	E
Wright Fishhook Cactus	Sclerocactus wrightiae	E
Winkler Cactus	Pediocactus winkleri	T
Mammals		
Black-Footed Ferret[1]	Mustela nigripes	E
Utah Prairie Dog	Cynomys parvidens	T

Birds

Bald Eagle[3]	Haliaeetus leucocephalus	T
Mexican Spotted Owl[2]	Strix occidentalis lucida	T
Southwest Willow Flycatcher	Empidonax traillii extimus	E

Fish

Bonytail Chub	Gila elegans	E
Colorado Pikeminnow	Ptychocheilus lucius	E
Humpback Chub	Gila cypha	E
Razorback Sucker	Xyrauchen texanus	E

Reptiles

None listed in the Sevier and Emery Counties

Snails

None listed in the Sevier and Emery Counties

[1]Two confirmed sightings were made in Utah in 1982.

[2]Nests in Utah.

[3]Wintering populations.

E - Endangered T - Threatened

For additional information contact: U. S. Fish and Wildlife Service, 2078 Administration Building, 1745 West 1700 South, Salt Lake City, Utah 84204-5110

Telephone: Commercial (801) 524-5001

Habitats of Unusually High Value. The area of potential impact contains a variety of important habitats for several species that are considered of "high interest" to various management agencies because these species are of economic or recreational value. There are ten recognizable vegetation habitats from a faunal standpoint: chaparral (ponderosa pine, curl-leaf mountain mahogany, manzanita, aspen), spruce-fir (englemann spruce, douglas fir, sub-alpine fir, white-fir), aspen, sagebrush, mountain brush (oak, curl-leaf mountain mahogany, smooth-leaf mountain mahogany, service berry sagebrush), streamside, pinyon-juniper, ponderosa pine, grass, and scotch pine-spruce. Conifer, aspen, high sage and meadow areas on Duncan Mountain are used as summer range and calving areas for elk and summer range for mule deer. Ponderosa pine along ridge tops are heavily used by elk during the late winter, early spring and occasionally during the summer. The cliff areas harbor mountain lion, bobcat and bear. Mountain brush habitats are heavily utilized by deer and elk during the winter and spring. Deer and elk winter on the lower elevation areas, particularly in the vegetation communities traversed by the access road (WIL, pgs. 2-3, Appendix 3-3).

Literature and field data were summarized for all terrestrial vertebrates of concern, and the species categorized to determine habitat affinities and high interest species status. These results are reported in tabular form (WIL, Tables 3 through 5, Appendix 3-3). They are listed according to their various ecological classifications. All species whose ranges appear to overlap any or all of the potential area of impact are listed. Generally speaking, the project area could potentially be inhabited by 64 mammalian, 8 amphibian and 14 reptilian species (Wasatch Plateau, Appendix 3-5). Some of these are considered high interest species for the habitats and local area of concern.

Since the immediate area of the mine portal, access roads, loading and storage facilities has already been lost as habitat, concern will be given to revegetation with species that will not only benefit, but promote wildlife.

The cliffs in Quitchupah Canyon are habitat for cougar. The observed animals seem to use them for denning activities. Therefore care has been taken to avoid placement of portal openings where there are caves or other natural denning sites. There are a limited number of trails going from the

plateau area through the cliffs to the valley floor to the southeast. It appears that these trails are important to elk migration from summer to winter range, and therefore construction of ventilation portals has not been allowed to interrupt this limited number of access routes.

No endangered or threatened mammal species occur within the mine boundary as recorded in a study performed by H. Duane Smith and Clyde L. Pritchett (WIL, Appendix 3-3).

A peregrine falcon eyrie existed in 1997 about one half mile from the site but during aerial surveys conducted in 1998 and 1999 no falcons were sighted. Discussion about threatened, endangered or otherwise sensitive plant and animal species of the Pines Tract Project area is given in Appendix 3-9.

The disturbed area of the Link Canyon Mine Portals contains approximately 0.05 acres (2000 square feet) of riparian vegetation typified by willow, alder, stinging nettle, rose, horsetail, carex, Kentucky Bluegrass, rush, and clematis (Zobell, 2000). A vegetation study of the western portal area was conducted by Mt. Nebo Scientific in July 2002. The report of this study includes a detailed map of the western portal area vegetation. A copy of the report is included in Appendix 2-9. The vegetation is supported by discharge from the abandoned Link Canyon Mine and subsurface moisture within the Link Canyon Drainage. Only the western-most portal area will be disturbed as part of Sufco's plan to re-open Link Canyon portals to establish an escape-way and ventilation for mining in the Pines Tract and access to the Link Canyon substation. The natural discharge of water from the portals will be maintained at rates similar to those that existed prior to reopening of the western portal. Only water from the existing abandoned works will be allowed to discharge from the portals. Thus, no harm due to a reduction in flow is anticipated to the riparian areas downstream of the portals. Additionally, the discharges from the portals will remain after the western Link Canyon Portal is reclaimed.

Species of High Federal or State Interest. The species of interest to the state of Utah are listed on Table 3-2. The species are divided into eight categories (extinct, extirpated, endangered, threatened, declining populations, limited distribution, declining populations/limited distribution and

conservation). The Western Bluebird classified as sensitive, appears to be restricted to the Ponderosa Pine as a nesting bird. It can be locally common and its habitat is widespread over the state. It therefore does not represent any special problem in the lease area.

Sensitive Species of High Federal Interest. The species of interest to the federal Forest Service are listed on Table 3-3. The species are all sensitive as determined by the FS MLS Sensitive Species List and have the potential to occur within the permit area.

The Link Trail Columbine is the only Forest Service Region 4 sensitive species known to exist on the mine areas called the Pines Tract and Muddy Tract. SUFCO monitors populations of the Link Trail Columbine within the East Fork of the Box Canyon where it has been determined that mining might negatively affect the populations within the permit area. A discussion about threatened, endangered or otherwise sensitive plant and animal species of the Pines Tract Project area and Muddy tract is given in Appendices 3-9 and 3-11.

150-Acre Incidental Boundary Change. Sensitive species listed in Table 3-3 may be found within the boundary area. Species of most concern are the Link Trail columbine, Northern Goshawk, Northern Three-Toed Woodpecker, Flammulated Owl, and the Spotted Bat.

- Link Trail columbine - No populations have been found within the 150 acre IBC area. The boundary area is located on a plateau. Adjacent to the boundary area is Box Canyon that has suitable habit for this vegetation. A survey of the canyon will be conducted to locate representative populations of the columbine. The location of the populations of the columbine will be recorded using a topographic map and a GPS survey will be used to verify the coordinates. Photographs of the colonies will be taken during the survey. The survey will be conducted during the growing season to ensure as many colonies as reasonably possible are located.
- Northern Goshawk - No populations have been found within the 150 IBC boundary area. The Goshawk requires wooded areas for nesting and the vegetative cover of the area is generally sagebrush with few trees.

- Northern Three-Toed Woodpecker - The woodpecker is likely to use the general area but no populations have been found within the 150 acre IBC. The woodpecker requires forests containing spruce, fir, aspen, pine, and tamarack for nesting. The vegetative cover of the area is sagebrush with few trees.
- Flammulated Owl - The owl has been seen in the general area but no populations have been found within the 150 acre IBC area. The owl prefers mature ponderosa pine or Douglas fir forests with open canopies. Nests are made in large diameter dead trees with cavities. Vegetative cover of the 150 acre IBC area is sagebrush with few ponderosa pines and Douglas fir.
- Spotted Bat - The bat has been seen in both Muddy and Box Canyons. These canyons are in close proximity to the 150 acre IBC but no populations have been found within the 150 acre IBC area. The spotted bat usually roosts in rock crevices high on steep cliff faces but will inhabit Ponderosa pine, desert shrub, and pinyon-juniper stands. Few steep cliff faces are located within the 150 acres but are adjacent to the area. The 150 acres is part of a plateau and the vegetation is mainly Ponderosa pine, desert shrub, and pinyon-juniper stands.

Link Canyon Mine Portals. A few of the Sensitive species listed in Table 3-3 may be found within the portal area. The disturbed area associated with the re-opened portal is less than one acre and is included in an area previously disturbed by mining activities. No sensitive plants species were found in the area by Zobell (2000) or Mt. Nebo Scientific (2002) nor have mammals included in Table 3-3 been found in the portal area. Previous bat surveys indicated Spotted Bats are not present in the portal area. No access to the mines appear to be available to bats as the portals were completely closed by rubble in the 1980's. No Bald Eagle nests are known to occur in the area. A Peregrine Falcon eyrie was reported two miles to the east of the site in 1998 and 2001 but the eyrie was inactive in 1999, 2000 and 2002. Because the flow of water from the portals is minimal (one gallon per minute or less), fish are not found at this location. A survey specifically conducted for endangered mollusks was conducted in the portal area in June 2002. It is unlikely any endangered

snails are present in the general area because of its isolated location and since the source of water only became available after the mine closed in the 1950's. Amphibians have not been reported in the area, possibly for the same reasons as those listed previously for the mollusks.

East Fork Of Box Canyon. Sufco intends to undermine portions of the East Fork of Box Canyon beginning in the Fall of 2003 as they extract coal from the 3LPE and 4LPE longwall panels. Prior to the initiation of undermining and subsidence, a pre-subsidence qualitative evaluation of vegetation and channel conditions will be conducted in the East Fork of Box Canyon from the Joe's Mill Ponds downstream to a location above the west gate roads associated with the 3LPE panel. The survey will consist of video taping the condition of the stream channel paying particular note to surface flows and ground water discharge, vegetation types and conditions, animal species in the area including documenting the absence or presence of macroinvertabrates in the stream channel by filming the turning over of rocks or debris, general soil conditions, and the general geomorphology of the area. A qualified botanist will be used to identify and report in the video tape the major representative plant species along the stream channel. This will include riparian and spring locations found along the stream channel. Major hanging gardens will be identified and discussed. The general stream morphology will be discussed in the video including the width and depth of pools, height of natural drops, existing joints, cracks, and fractures, locations where flows naturally diminish or increase, etc.

A video tape will be made of the same portion of the East Fork at the same time of the year on the third year following undermining. A comparison will be made of the two tapes using the parameters described above and any changes due to mining activities will be noted. The tapes will be submitted to the Division as part of the Annual Report; the Fall 2003 video tape will be submitted with the 2003 Annual Report and the comparison tape will presumably be submitted with the 2006 Annual Report.

Fourteen sites have been identified and established during the qualitative pre-subsidence survey for use in a quantitative evaluation of site-specific vegetative and hydrologic conditions (See Chapter 7 Section 7.3.1.2) The site locations have been mapped and identified in the field with stakes and

flagging. The sites include each of the springs found within the portion of the East Fork to be subsided and the Joe's Mill pond area.

A survey of the identified stream and spring monitoring sites will include a concentrated study of vegetative communities associated with the stream and spring sites. The vegetative survey of the East Fork will be conducted following the USFS and D.L. Rosgen stream channel survey protocol. The condition of the riparian vegetation flanking the channel at each of the sites will be described and the hillsides above the channels will also be monitored for changes in morphology. Maps of the surveyed areas will be prepared. The survey will be conducted before subsidence begins in the effected areas of Box Canyon Creek and will be repeated in 2004, 2005, 2006, and 2008.

The conditions of the vegetation at the spring sites will be monitored for the same parameters as the stream sites. The source and discharge area will be included in the survey. Photographs will be obtained at each of the monitoring stations of the vegetative communities along the stream channel, hillsides above the site, and at the spring locations. Permanent photo points will be established to allow for repeatability of photographing the vegetation.

Qualitative surveys of the vegetation at each monitoring station will be conducted twice per year, once at the beginning of the growing season and again at the end of the season, for the first three years as mining is commenced in the East Fork and then in the fifth year following undermining. The surveys will include observations of the conditions, types, notable changes, etc., of the vegetation in the Joe's Mill pond area vegetation and along stream banks and spring locations identified as monitoring sites.

Erosion of the hillsides will be monitored during the twice yearly qualitative vegetation survey using a numerical ranking system to identify the degree of erosion. The ranking system will be as follows:

4-Extreme erosion	deeply incised rills and gullies with unstable, actively slumping walls and loose material moving rapidly to the rill or gully floor, freshly exposed plant roots, no remaining topsoil, no vegetative litter, little to no vegetative cover.

3-High erosion	incised rills and gullies slightly unstable slopes, only occasional slumps of the rill or gully wall, some plant roots exposed, little to no topsoil remaining, little to no vegetative litter, poor vegetative cover.
2-Moderate erosion	small rills, no gullies, moderately stable slopes, very little to no exposed roots, most of the topsoil remains, moderate vegetative cover.
1-Slight erosion	occasional small rills, no significant channeling in the soils, no exposed roots, topsoil remains, most vegetative litter in place, good vegetative cover.
0-No erosion	Appears relatively undisturbed, essentially no rills, vegetative litter in-place, healthy vegetative cover.

Photographic evidence of the state of erosion will be obtained each year at the East Fork monitoring sites for annual comparative and evaluation purposes. The climatic and overall vegetative conditions of the area will be noted. Particular attention will be paid to the effects of grazing on the vegetation and soils with respect to changes in the rank of erosion.

As part of the quantitative evaluation of the East Fork of Box Canyon, the locations of populations of the Link Canyon Columbine will be identified, mapped, and locations staked. The number of individuals in the populations will be counted or accurately estimated. All other populations of Threatened and Endangered and Sensitive Species found in the area of concern will be identified. The population location will be mapped, if appropriate, and the number of individuals will be recorded. The surveys of the TEC and Sensitive Species, if found, will be repeated in 2004, 2005, 2006, and 2008.

A low level, colored infrared aerial survey will be conducted of the East Fork of Box Canyon in 2003 and in 2008. The survey will include the stream and spring monitoring points. The results of the survey will be reported to the Division in the mine's Annual Report in the year following the survey.

The vegetative, erosion, and colored infrared survey reports will be submitted to the Division as part of the annual report according to the schedule provided below. Two copies of the reports will be sent to the Division so that they may forward one copy to the Manti-LaSal National Forest.

1. 2003 Baseline Vegetation Report to be submitted with the mine's 2004 Annual Report. Also includes baseline colored infrared aerial photos and report of the monitored stream and spring areas within the east Fork of Box Canyon

2. Both 2004 Quantitative and Qualitative Vegetation Reports for the 1st year data collected following undermining will be submitted in the 2005 Annual Report.
3. 2005 Qualitative Vegetation Reports for the 2nd year following undermining will be submitted in the 2006 Annual Report. The Qualitative surveys only will be conducted.

4. 2006 Quantitative and Qualitative Vegetation Reports for the 3rd year following undermining will be submitted in the 2007 Annual Report.

5. 2008 Quantitative and Qualitative Vegetation Reports for the 5th year following undermining will be submitted in the 2009 Annual Report. Also includes the colored infrared aerial photos and report of the monitored stream and spring areas within the East Fork of Box Canyon.

If substantiated mining-induced changes occur in the vegetation within the affected areas of the East Fork of Box Canyon, a revegetation/enhancement mitigation plan will be created and submitted to the Division. The permittee understands that the mitigation plan will be approved only after the Division consults with the USFS on the proposed plan.

In addition to the East Fork of Box Canyon vegetative monitoring and mitigation plan, Sufco will implement a hydrologic monitoring plan as well as a stream channel subsidence crack mitigation plan. These plans are discussed in greater detail in Section 7.3.1.2 and Section 5.2.5.1 of this M&RP. Mitigation of cracks, if they occur, in the bottom of the stream channel requires the placement of bentonite grout to stop the diversion of surface flows. If mitigation is required during the critical elk and deer time periods of November 1st through April 1st and May 1st through July 1st, or

during the raptor nesting and rearing season of February 1st through August 31st, the Division will be contacted and the mitigation plans reviewed with the appropriate regulatory personnel. Mitigation work will be performed in such a manner as to minimize disturbance to wildlife.

A baseline macroinvertebrate survey was performed on the East Fork of the Box Canyon on October 20, 2003 by Dr. Dennis K. Shiozawa with assistance from Patrick Collins of Mt. Nebo Scientific. Ms. Katherine Foster of the Manti-LaSal National Forest was also present during the survey. Locations of the macroinvertebrate populations survey were determined based on the stream channel floor conditions, availability of water, and potential repeatability of the survey. Sites in the area of EFB-4 were not acceptable to Dr. Shiozawa since the channel floor was not stable and consisted of loose sand. The current environmental conditions, specifically the channel floor configuration, would likely be changing naturally over time and with every significant precipitation event. These naturally occurring changes would make repeating the survey in these types of locations very difficult at best. Additionally, the loose sands that formed the channel floor are abrasive and very detrimental to macroinvertebrate life. The movement of sand through the system as a result of a precipitation event could easily significantly diminish or destroy populations. Therefore, four locations were selected in the area of and upstream of site EFB-11. These locations appeared to have the most stable channel floor, bed rock, and repeatability of the survey at these locations would be possible.

The survey consisted of obtaining two sample sets from each site. The organisms captured at each site will be identified to the species level. The number of organisms per unit of measure were counted and recorded. Two copies of the results of this baseline survey will be submitted to the Division with the 2004 Annual Report. A second and third survey will be performed in 2004 and 2005 following undermining and two copies of the results will be submitted to the Division with the 2005 and 2006 Annual Reports.

A copy of the October 2003 "Monitoring and Mitigation Plan for Mining Under the East Fork of Box Canyon" prepared by the Division and reviewed and accepted by the Forest with some modifications has been included in Appendix 3-10. The preceding paragraphs have been prepared based on this plan. Sufco will meet all of the monitoring and mitigation responsibilities described in the plan as it pertains to the undermining of the East Fork of Box Canyon.

3.2.2.3 Fish and Wildlife Service Review

If requested, the applicant authorizes the release of information pertaining to Section 3.2.2 and 3.3.3 to the U.S. Fish and Wildlife Service Regional and Field office for their review.

3.2.3 Maps and Aerial Photographs

The lease area was mapped by use of a mosaic of aerial photographs and assured by ground inspection. Vegetation sampling locations/reference areas are shown on Plate 3-1.

3.2.3.1 Location and Boundary of Proposed Reference Area

The locations of the vegetative reference areas are found on Plate 3-1. Area 13 shown on Plate 3-1 is to be used as a mapping unit only and not a reference area or validation site. Site 12 will be used as the reference area for the minesite sedimentation pond area.

3.2.3.2 Elevations and Locations of Monitoring Stations

Raptor nest locations and elk and deer range are shown on Plate 3-2 and 3-3. The permit area contains no fish monitoring stations.

3.2.3.3 Facilities for Protection and Enhancement

Sections 3.3.3.3 and 3.5.8.5 contain additional discussion pertaining to protective measures taken by the applicant in behalf of wildlife.

Power lines within the SUFCO Mine permit area were modified during the summer of 1981 to comply with the guidelines of REA Bulletin 61-10, "Power Line Contacts by Eagles and Other Large Birds" (see Plate 5-5 for the power pole locations).

3.2.3.4 Vegetation Type and Plant Communities

Vegetative types and plant communities are outlined on Plate 3-1 of this application.

Table 3-2

Native Utah Wildlife Species of Special Interest

January 2005 (Revised)

Mammals		**Status**
Grizzly Bear	Ursus arctos	EX
Fisher	Martes pennanti	EX
Gray Wolf	Canis lupus	EX
Black-footed Ferret	Mustela nigripes[1]	EN
Utah Prairie Dog	Cynomys parvidens[2]	T
Wolverine	Gulo gulo	T
Spotted Bat	Euderma maculatum	SP
Allen's Big-eared Bat	Idionycteris phyllotis	SD
Fringer Myotis	Myotis thysanodes	SD
Dwarf Shrew	Sorex nanus	SD
Desert Shrew	Notiosorex crawfordi	SD
Abert's Squirrel	Sciurus aberti navajo	SD

Belding ground Squirrel	Spermophilus beldingi	SD
Thirteen-lined Ground Squirrel	Spermophilus tridecemlineatus	SD
Spotted Ground Squirrel	Spermophilus spilosoma	SD
Wyoming Ground Squirrel	Spermophilus elegans	SD
Yellow Pine Chipmunk	Tamias amoenus	SD
Rock Pocket Mouse	Chaetodipus intermedius	SD
Olive-backed Pocket Mouse	Perognathus fasciatus	SD
Merriam's Kangaroo Rat	Dipodomys merriami	SD
Chisel-toothed Kangaroo Rat	Dipodomys microps celsus	SD
Cactus Mouse	Peromyscus eremicus	SD
Southern Grasshopper Mouse	Onychomys torridus	SD
Marten	Martes americana	SD
Pika	Ochotona princeps	SD
Ringtail	Bassariscus astutus	SD
Northern Flying Squirrel	Glaucomys sabrinus	SD
Western Red Bat	Lasiurus blossevillii	SP/SD

Big Free-tailed Bat	Nyctinomops macrotis	SP/SD
Brazilian Free-tailed Bat	Tadarida brasiliensis mexicana	SP/SD
Townsend's Big-eared Bat	Plecotus townsendii	SP/SD
Desert Kangaroo Rat	Dipodomys deserti	SP/SD
Northern Rock Mouse	Peromyscus nasutus	SP/SD
Stephen's Woodrat	Neotoma stephensi	SP/SD
Virgin River Montane Vole	Microtus montanus rivularis	SP/SD
Mexican Vole	Microtus mexicanus	SP/SD
Northern River Otto	Lutra canadensis	SP/SD
North American Lynx	Felis lynx canadensis	SP/SD
Canada Lynx	Lynx canadensis	T

Birds

Passenger Pigeon	Ectopistes migratorius	E
Southern Willow Flycatcher	Empidonax traillii extimus[1]	EN
Bald Eagle	Haliaeetus leucocephalus[2]	T

history. During winter, wildlife are often in a delicate energy state and unnecessary disturbance by man causes them to use up critical and limited energy reserves that may result in mortality. In less severe cases the fetus being carried by gestating mammals may be reabsorbed or aborted thus reducing reproductive success and productivity of the population. Surface activities are curtailed from November 1 through April 1, and between May 1 and July 1 in the calving area, except in the portal areas, so as not to disturb wintering elk. Employees will be encouraged to report violators to the proper company and management authorities for reprimand or prosecution. Employees should be impressed that they as hunting and recreation users stand to gain the most by preserving what they have in proximity to their places of work and abode.

Livestock and wildlife will be protected from the effects of mining related subsidence to the extent possible. Surface cracks that open to the point of creating a physical hazard to livestock and wildlife will be mitigated. This mitigation may include but not limited to backfilling the cracks with available local native materials and soil, partially backfilling with imported fill, or simply reshaping of the nearby ground surface to lessen the offset or abruptness of the crack faces and depth. The repaired areas will then be reseeded with a seed mix appropriate to the area and one approved by the Division and land owner/agency. Several such mitigation efforts have already been successfully conducted in the Quitchupah and Pines Tract areas.

Subsidence induced seismicity has not been noted to have an adverse impact on livestock or wildlife in the existing mined portions of the Sufco permit area. It is not anticipated the impact to wildlife and livestock due to mining induced seismicity will change or increase as the permit area is expanded into new lease areas.

Any raptor nest that has a potential to be disturbed by subsidence will be evaluated with DWR and FWS. An appropriate plan of action will be developed on a case by case basis. The Division of Oil Gas and Mining will be informed in advance when such an evaluation is necessary. The applicant will obtain any permits necessary for disturbance of the nest if this is the course of action decided upon.

The Link Canyon Substation No. 1 pad ~~area has an~~ old historic golden eagle nest (#31) that was not found during the 1997 Raptor Survey and a tended falcon scrape (#33) within the buffer zone. These two nests will not be disturbed with the planned mining activity. To protect these nests during the construction of the Substation No. 1 pad the nests will be avoided, and the timing of the construction activity will be after the nesting period of August 15, 1998.

In Link Canyon during the 1998 Raptor Survey a new tended golden eagle nest was found (#321) and the other old historic golden eagle nest sites (#31, and #32) and the falcon scrape (#33) were not found.

In Link Canyon during the 1999 Raptor Survey the golden eagle nest (#321) was inactive and the other old historic golden eagle nest sites (#31, and #32) and the falcon scrape (#33) were not found. Golden eagle site #32 was renumbered in the 1999 survey as #799 and the old historic site #31 shown next to the Link Canyon road and Substation No. 1 pad was deleted.

To protect these nests during the construction of the Substation No. 2 pad the nests will be avoided. The timing of the construction activity started on October 15, 1999 with the construction of a small 20'x 30' pad for drilling the power cable boreholes out from within the mine, casing the boreholes, and pulling power cables into the boreholes. The construction of the proposed Substation No. 2 pad and substation will be started right after the drilling and power cables are completed in February, weather permitting. Construction activities began before and continues into the nesting season, any birds wanting to use these old nests in the area would be able to choose if they can tolerate the disturbance. These nests will be monitored during the construction period to see if they are being used.

After the Link Canyon Substation is in place very little mining activity will occur in the area with only emergency maintenance and monthly electrical inspections required. This maintenance and inspection activity will be similar to general public access on the road. Minor maintenance and monthly inspections will only require a pickup truck, ATV or snowmobile going up the canyon for access to the substation. Any major maintenance requiring heavy construction equipment will require

monitoring from December 1 to April 15 for big game winter range and from January 1 to August 15 for raptors and will require a clearance from the DWR and USFS.

Construction associated with the reopening of the western Link Canyon Mine portal, will require minimizing activities that disturb big game from December 1 to April 15. Construction activities from January 1 to August 15 will require a clearance from the DWR and US Fish and Wildlife Service because of potential disturbance to nesting raptors. This proposed project is located in a MMA (Minerals Management Area) in the Manti-La Sal forest plan (Figure 3-15, Management Area Direction, Manti-La Sal National Forest Pines Tract Project, Final Environmental Impact Statement, January 1999). A GWR (General Big-Game Winter Range) Management Unit is located adjacent to the MMA Management Unit. Although this direction does not apply to the adjacent MMA Management Unit where the current proposal is located, the Manti-La Sal National Forest Record of Decision considered this management direction. Direction for operations in adjacent GWR Management Units calls for minimizing potential conflicts. The current proposal will have negligible effects to wintering big game because there will be very little activity at the site following the initial short-term construction activity (pages 14-15, Manti-La Sal National Forest, SUFCO Mine Link Canyon Portal Record of Decision, Oct. 10, 2002). The area will be surveyed for raptor nests. If any are found within the prescribed buffer zone, they will be monitored for activity and work at the portal site will occur following the same guidelines as those described for the Link Canyon Substation.

Mining within the SITLA Muddy Tract will be limited to underground activities; no surface disturbance, other than exploration drilling, is anticipated in this area. Exploration drilling is typically handled by the Division under a separate permit application process. No known raptor nests are known to exist within the SITLA Muddy tract where subsidence will occur. However, if future raptor monitoring finds any raptor nest that has a potential to be disturbed by subsidence, the nest and potential damage will be evaluated with DWR and FWS. An appropriate plan of action will be developed on a case by case basis. The Division of Oil Gas and Mining will be informed in advance when such an evaluation is necessary. The applicant will obtain any permits necessary for disturbance of the nest if this is the course of action decided upon.

Generally, vegetation within the permit area outside of disturbed areas is protected from mining related impacts, such as subsidence, by the depth of overburden and depth of soil. Experience in mining the Pines and Quitchupah leases has shown that upland vegetation does not appear to be significantly affected by subsidence. Cracks that form in the soil tend to heal quickly and the majority of the vegetation in the area of surface cracks does not appear to be suffering from undue stress. The only cases of damage to vegetation related to mining appears to occur when subsidence cracks form in areas where a brittle sandstone body is near the surface with little soil cover and a crack either visibly bifurcates a plants root system or opens wide enough for soils and small plants to fall into. In a few locations, tree roots have been weakened by surface cracks and have resulted in the trees toppling shortly after the cracking occurs. This impact appears to be typically limited to areas near a canyon rim such as in the West and East Forks of Box Canyon. In areas where there are at least a few feet of soils over bedrock, such as in the previously mined portions of the Quitchupah Lease, this phenomenon has not been observed. Significant impacts to upland vegetation from subsidence are not anticipated in the SITLA Muddy Tract since most of the tract area has a relatively thick mantle of soils.

The depth of overburden in the SITLA Muddy Tract ranges from 900 to nearly 2200 feet. Areas projected to be undermined are covered by a minimum of 1000 feet to a maximum of 2100 feet. Most of the vegetation in the tract is found to be growing in the Price River and the North Horn Formations where the depth of cover is at least 1000 feet. Where these formations are exposed to mining induced subsidence in the Sufco area, the formations tend to react more plastic than brittle and subsidence crack formation is often muted. Subsidence cracks in thick soils and heavily weathered bedrock near the ground surface will frequently heal or fill in a relatively short period of time. Because of the depth and type of cover, Sufco anticipates there will be little impact to upland vegetation due to the subsidence. Subsidence cracks that form that are determined to be a safety hazard will be mitigated as discussed previously in this section.

The applicant has implemented a program to monitor the effect of subsidence on the vegetative communities. The applicant uses color infrared photography (CIR) to document changes to vegetation. This CIR coverage was begun in 1987 and will be updated at least every 5 years.

The riparian vegetation within upper Box Canyon adjacent to the 150 acre lease modification is of special concern to the permitting agencies and the permittee. Because of this concern, SUFCO commits to monitoring the effects of subsidence on the riparian vegetation within the upper Box Canyon by including this area within the color infrared photography monitoring program described in the preceding paragraph. Previous infrared surveys have included most of the 150 acre lease modification area and upper Box Canyon. These previous surveys will be used to provide baseline data for the monitoring of subsidence effects, if they occur, on the riparian vegetation within the area. This data will be reviewed by qualified personnel to make determinations concerning the effects of subsidence on the riparian vegetation.

A survey will be conducted to locate representative populations of vegetation growing within bedding planes and fractures in the walls of Box Canyon. The location of the populations will be recorded using a topographic map and a GPS survey will be used to verify the coordinates. Photographs of the vegetation will be taken during the survey. The survey will be conducted during the growing season. This survey may coincide with the survey for the Link Trail Columbine as discussed previously in this chapter. A report of this survey will be included in the SUFCO annual report.

The applicant has implemented a program to monitor surface flowing water to determine diminished flows resulting from mine-related subsidence. The plan is incorporated as part of the over all surface water monitoring program. Monitoring with respect to wildlife watering sources has been discussed in Appendix 7-2. The applicant will cooperate with regulatory agencies to develop and provide alternative water sources for wildlife if mine-related subsidence disturbs the present sources.

In areas where wetlands and habitats of unusually high value for fish and wildlife exist, more intensive water and subsidence monitoring may occur when deemed necessary by the permittee, Division, and/or landowner/manager. This type of monitoring has already taken place in the East Fork of Box Canyon in the Pines Tract area and is described in detail in Chapter 5 Section 5.2.5.1 and Chapter 7 Section 7.3.1.2. Only two short segments of Cowboy Creek are within the SITLA Muddy Tract. Both segments are located on the eastern portion of the tract. One segment is located in the northeast 1/4 of Section 7, T21 S, R 5 E and the other is in the eastern 1/4 of Section 5 Section 7, T 21 S, R 5 E. Both of these segments of stream are perennial and contain riparian vegetation in the

channel bottom and on the banks of the channel. Additionally, there are several low flow springs within the SITLA Muddy Tract supporting riparian vegetation. The locations of these springs are identified on Plate 7-3. The riparian vegetation associated with Cowboy Creek and the springs is identified on Plate 3-1.

As discussed in the SITLA Muddy Tract PHC (Appendix 7-20), springs in the area occur within the North Horn and Price River Formations. The springs typically occur on the down gradient end of a perched aquifer where the beds containing the water are truncated by surface topography. Most of the springs occur in areas where overburden depths are approximately 1500 feet or greater. Sufco has undermined a few springs where the cover was greater than 800 feet, most of them occurring in the East Fork of Box Canyon. A few of the springs that discharged at or near the Blackhawk Formation - Castlegate Sandstone contact moved down-gradient. The remainder that discharge from the Castlegate Sandstone where the overburden is greater than 800 feet do not appear to have been significantly impacted by subsidence (PHC Appendix 7- 20 and personal communication with Erik Petersen of Petersen Hydrologic, Inc., Lehi, Utah, October 2005). Based on this experience, Sufco believes undermining the springs supporting associated riparian vegetation in the SITLA Muddy Tract will not significantly impact the vegetation.

Sufco has undermined a portion of the East Fork of Box Canyon where the flow is perennial. In the segment of the stream supported the Blackhawk Formation, subsidence related cracking of the brittle sandstone and silty sandstone beds did result in a temporary diversion of surface water into the subsurface. However, it was observed the water resurfaced down-gradient where the channel down cut through the brittle sandstone layers and encountered more plastic siltstones and shales. Mine personnel successfully repaired the channel floor with bentonite and native soils and restored the flow to the surface. Subsequent spring runoff also appears to have aided in natural repairing of the channel floor. Initial annual monitoring of the vegetation in the lower East Fork of the Box Canyon, begun in late 2003 and early 2004, has indicated the riparian vegetation adjacent to the stream channel does not appear to have been significantly impacted by subsidence.

Based on the experience to date (Fall 2005) of undermining the East Fork of Box Canyon, subsidence of the short segments of Cowboy Creek present in the SITLA Muddy tract is not anticipated to

adversely impact the perennial vegetation associated with the creek. The overburden between the coal seam to be mined and the stream channel in the tract is between 1100 and 1600 feet. The underlying formations contain rock types that would be expected to easily heal surface cracks that form beneath the stream channel. Additionally, the alluvium within the stream channel supporting riparian vegetation is derived from the fine-grained rocks of the Price River and North Horn formations. This alluvium is expected to naturally readily fill fractures that may occur in the channel substrate thus limiting the loss of flow, if any, supporting the riparian vegetation.

Though not anticipated, short segments of Cowboy Creek could be subsided in the SITLA Muddy Tract. If this is anticipated to occur, Sufco, with the approval of the Division and concurrence of the Forest, will instigate a vegetation monitoring and mitigation plan similar to the plan implemented prior to the undermining of the East Fork of Box Canyon. If mitigation of surface cracks is required, methods similar to those proposed and implemented in the East Fork of Box Canyon as described in Chapter 5 Section 5.2.5.1 and Chapter 7 Section 7.3.1.8 will be used.

The applicant will request that future power lines on the SUFCO Mine site be constructed per OSM and UDOGM regulations or with alternative guidelines approved by the regulatory authority. Additional information referencing power lines is located in Section 3.5.8.5.

Efforts will be taken to regulate the use of pesticides when needed. Before a pesticide is used, the type and concentration will be approved by the Regulatory Authority.

CHAPTER 4

LAND USE AND AIR QUALITY

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CHAPTER 4

LAND USE AND AIR QUALITY

4.10 Land Use

This section of the permit application includes descriptions of the premining and proposed postmining land use(s).

4.1.1 Environmental Description

A statement of the conditions and capabilities of the land to be affected by coal mining and reclamation operations follows in this section.

4.1.1.1 Premining Land Use

The surface lands within the permit area (except for 640 acres privately owned) are owned by the U.S. Government and are either parts of the Fishlake National Forest, the Manti-La Sal National Forest or lands administered by the Bureau of Land Management. These lands have been inventoried by the respective regulatory agencies who are responsible for the administration and use of these government lands. Federal comprehensive land use plans have been prepared by the U.S. Forest Service Offices.

Land Use Map. Plates 4-1A & 4-1B presents these Federal comprehensive land use plans information in the permit area.

Land Capability. The SUFCO Mine area's recreational use (excluding hunting) is approximately 427 days annually. Most of this use is dispersed among horseback riding, snowmobiling, hiking, camping, four wheeling and fuel wood gathering (Billy Dye, Ferron Ranger District; Bob Tuttle, Fishlake National Forest).

The major plant communities in the SUFCO Mine area are identified in Section 3.2.1.1.

The pinyon/juniper woodland occurs on steep unstable slopes and is considered unsuitable for grazing although it is grazed within the allotment. The vegetation condition within the pinyon/juniper woodland type was considered good. Forage production (mainly Indian rice-grass and bluebunch wheatgrass) is low. Arnold et. al. (1964), Jameson and Dodd (1964), and Jameson (1971) found that as tree canopy increased, understory vegetation decreased. Phillips (1965) found that mature stands with a 74 per unit crown canopy produced 96 pounds of forage per acre while stands with 1-2 percent cover produced from 418-577 pounds per acre. Lewis et. al. (1965-1967) found production values between 40 and 460 pounds per acre in stands sampled. Areas where trees had been removed produced as much as 900 pounds per acre. Canopy cover of pinyon and juniper in the SUFCO Mine Quitchupah lease area fairly dense and forage production in the type would generally be less than 100 lbs./acre in an average year. Assuming 50 percent utilization and 25 lbs./animal/day, it would take 15 acres to carry an animal for a month (WESTECH, 1978).

A large part of the flatter upland area is dominated by sagebrush/ grassland. The U.S. Forest Service (unpublished, 1971) has mapped this area as suitable rangeland with vegetation condition. The sagebrush/grassland type within the SUFCO Mine Quitchupah lease area is the most desirable type for grazing, producing the most available forage per acre for livestock. It generally has lower vegetation condition than other types indicating it receives heavier grazing pressure. Three transects established in 1971 by the U.S. Forest Service on the SUFCO Mine Quitchupah lease area averaged 1100 lbs/acre (dry weight). Of this, about 940 lbs/acre was perennial grasses and sedges. The transects established, however, are in areas where shrub coverage is low and forage production would probably be lower for most of the sagebrush/grassland type where shrub coverage is higher. For this type, it would take 2-3 acres to carry an animal for a month. The U.S. Forest Service estimates a carrying capacity of 0.5 animal units per month (AUM) per acre (B. Bass personal correspondence, 1979).

The aspen type is an important producer of forage for big game and domestic stock. A high percentage of the production is forbs which makes this type more desirable to big game and sheep. Mature aspen with a herbaceous understory in good to excellent condition will produce from 1,000 to 1,800 lbs/acre air dry forage (Lewis, 1971). The U.S. Forest Service estimates that in this area,

aspen type produces 1,000 to 1,500 lbs/acre with 0.6 to 0.65 AUM/acre (M. Stubbs personal correspondence, 1979). Most of the aspen stands in the SUFCO Mine Quitchupah lease area serial with vegetation condition (U.S. Forest Service, unpublished, 1971).

The ponderosa pine, mountain shrub and coniferous forest types are generally lower forage producers although the extent of these types on the study area makes them an important component of the grazing system. Portions of these types, especially along the steep canyon walls, have been rated unsuitable for grazing and receive little grazing pressure due to limited accessibility to livestock. Areas of these types on more gentle slopes receive heavier grazing as indicated by lower vegetation condition. These areas provide some forage for livestock and are valuable forage producers for big game. Julander (1955) estimated forage production for mountain brush and oak types. He found that the mountain brush type produced 723 lbs/acre (green weight) of which 11 lbs/acre were grasses. He found that grasses are preferred forage for cattle and are selected as their key forage species. Where grasses were unavailable, however, cattle used forb and shrub species resulting in competition with big game species.

Valley bottoms receive little grazing pressure except in the vicinity of water sources where pressure is locally heavy. Valley bottoms are generally narrow and represent limited available forage. Steep slopes receive limited grazing pressure from livestock because of the steep inclines and lack of water. Flatter mesa tops and rolling terrain receive heavier pressure because of easier movement by livestock and more available forage. Grazing pressure is heaviest around water sources in these more accessible areas.

Very little of the SUFCO Mine area is in vegetation communities capable of producing timber products. The pinyon/juniper woodland community generally occurs on steep, unstable slopes making it undesirable for accessibility.

The coniferous forest type also occurs on steep slopes and generally in small stands. Economics of harvesting these stands would result in a high cost/benefit ratio. Other than very limited

consumption for posts and poles, this type receives no use in the area as a timber producer. Christmas tree cutting, however, is higher in this community type than others in the area.

The ponderosa pine type is the only vegetation community receiving substantial use for timber production. This type generally occurs on flatter sandy sites and is readily accessible. Large, mature (250 + years) trees have been harvested on a selective basis. Pine regeneration in cut over stands is sparse and mountain mahogany and manzanita appear to be increasing in the understory. Within the SUFCO Mine Quitchupah lease area approximately 528 thousand board feet (MBF) have been harvested between 1977 and 1978 with average volumes of 1.3 average net volume/acre (M. Stubbs personal correspondence, 1979). Quaking aspen stands receive limited local pressure for posts and poles.

The vegetation communities supported in the Pines Tract area and SITLA Muddy Tract area are discussed in Chapter 3 of this M&RP.

Land Use Description. The leased areas lie within the Manti-La Sal and Fishlake National Forests and are subject to the Land and Resource Management plans prepared by the agency. These plans identify the principle use of the lease areas as rangeland with small areas set aside for timber harvesting and as general big game range. Recreation in the lease areas includes camping, firewood gathering, hunting, some snowmobiling, and sight seeing from late spring to late fall. Yearly recreation use is light, but during deer and elk hunts, use is extremely heavy.

There are no developed or inventoried recreation campgrounds on the lease areas. The mining operation will not impact any of these uses and will preserve the uses into the postmining period.

The timber on the lease areas are open grown Ponderosa pine. All commercial stands occur on the benches. Trees are of low quality because of the poor tree growing site. Cutting is limited to older over-matured trees and occurs infrequently. No adverse timber impacts are anticipated.

The aesthetic value of the area has been categorized by the U.S. Forest Service as follows:

"The mesa rim and deep canyons can be seen as background from Emery (Dog Valley). They are classified as distinctive with variety. Activity from the proposal will not be visually evident from the valley. The lease area is seen as middle ground from a few remote spots on the Duncan Mountain Road. This scene area is presently classified in Sensitivity Level 2 (Average Sensitivity). The visual objective as recommended by the Land Use Plan is 2 (Modification). This permits activities to visually dominate the characteristic landscape. Very few people visit the area and those that do, come for something other than scenic attractions."

With the inclusion of the Pines Tract into the SUFCO permit area "changes in the existing landscape could include escarpment failures. This is not expected to change the visual character of the region."

A portion of the surface area is grazed by cattle under the Quitchupah Grazing Association allotment (Fishlake National Forest). The allotment covers approximately 43,156 acres, it presently supports 813 head of cattle from June 11 through September 30, for a total of 2,981 cow months (Bob Tuttle, Fishlake National Forest).

The Emery allotment (Manti-La Sal Forest) supports 1,300 head of cattle. This allotment is under an intensive rest-rotation management system, placing the cattle in the mine area for approximately one month a year. Several ranches in Emery County are dependent on the allotment. Structural range improvements include one watering trough (spring fed) and two cattle guards on the access route into the lease.

The number of hunters in the Salina Planning Unit increased 122 percent from 1969 to 1972 (U.S. Forest Service, 1976). In Deer Unit #43/45 (Salina) 9,383 hunters were recorded afield during the 1990 hunting season. The Fishlake Elk Herd Unit #14 hosted 4,027 hunters during the 1990 season. Additional hunter use information reported by the Utah Division of Wildlife Resources can be found in the Utah Big Game Annual Report for 1991 (Appendix 4-1).

Pines Tract Area

The existing land uses in the Pines Tract area include: timber production, livestock grazing, wildlife habitat, recreation, transportation corridors and underground coal mining (SUFCO Mine). The existing land uses not previously discussed are the transportation corridors and underground coal mining (SUFCO Mine, Quitchupah Lease). The roads/transportation corridors are generally single-lane native surface forest development roads which are passable during the drier months of the year. The forest development roads connect with local roads that access major highways.

In the late 1970s two Roadless Area Review and Evaluation (RARE) II areas were inventoried. Neither area was designated as wilderness, nor were they classified as roadless or semi-primitive recreation management areas under the Forest Plan in 1986 (Pines Tract Project EIS, 1999).

The Pines grazing unit is part of the Emery C&H grazing allotment. The Pines unit supports 1,387 head of cattle during the early grazing season. Eight ponds for livestock and wildlife use have been developed in the Pines Tract area (see Chapter 3, Appendix 3-9, Figure 2 - Springs, Seeps and Riparian Areas). The Link Canyon troughs and the Joe Mill ponds are the most reliable sources of developed water within the tract area.

The limited amount of perennial water within the analysis area reduces the potential for many species of fish to be present. However, Muddy Creek and the lower portion of Box Canyon Creek support fish populations.

The Sevier County Zoning Resolution designates the area as GRF-1. The primary uses designated for GRF-1 areas include gravel pits, clay pits, rock quarries, oil and gas wells, mines, mineral reduction, processing structures and facilities. There are no oil or gas leases associated with the Pines Tract area.

Muddy Tract Area

The existing land uses in the SITLA Muddy Tract area include: timber production, livestock grazing, wildlife habitat, recreation, transportation corridors and underground coal mining (SUFCO Mine). The

roads/transportation corridors are generally single-lane native surface forest development and maintenance roads which are passable during the drier months of the year. The roads are classified by the Forest as Level 2 roads and generally no restrictions are placed on these roads for public use. The Forest does recommend the use of high clearance vehicles for most of the roads in the SITLA Muddy Tract area and to avoid use when the road surfaces are wet. However, if the permittee is using the roads for other than periodic monitoring, special use permits must be obtained from the Forest. Many of the forest development roads connect with local roads that access major highways.

In the late 1970s two Roadless Area Review and Evaluation (RARE) II areas within the SITLA Muddy Tract region were inventoried. Neither area was designated as wilderness, nor were they classified as roadless or semi-primitive recreation management areas under the 1986 Forest Plan Revision (Pines Tract Project EIS, 1999). Recent re-inventories (July 2004) of Roadless Areas by the Manti LaSal National Forest as part of their Forest Plan Revision to be completed by the end of 2006 have included nearly all of the SITLA Muddy Tract as potentially "roadless". This designation excludes the existing Forest Development Roads 044, 2033, and 010 that lie within the eastern and northern portions of the SITLA Muddy Tract. Only a small segment of land west and north of the Main Fork of Box Canyon and western SITLA Muddy Tract boundary, east of Forest Road 044, and south of the southern boundary of sections 2, 3, and 4 of T 21 S., R 5 E., SLM is identified as not being included in the proposed roadless area. Currently, the Forest typically administers most of the areas identified as having "roadless" characteristics as though the areas were officially accepted as roadless. This action is being taken to preserve, where possible, unroaded characteristics of portions of the Forest.

The SITLA Muddy Tract area is part of the Emery C&H grazing allotment. The SITLA Muddy Tract unit supports 1,387 head of cattle during the early grazing season. Three ponds for livestock and wildlife use have been developed in the SITLA Muddy Tract area.

The limited amount of perennial water within the analysis area reduces the potential for many species of fish to be present. However, Muddy Creek and the lower portion of Box Canyon Creek support fish populations.

There are no oil or gas leases associated with the SITLA Muddy Tract area.

Cultural and Historic Resources Information. Cultural resource information and maps identifying cultural and historical study areas are located in Appendix 4-2. An intensive cultural resource evaluation of five coal exploration well locations has been conducted on the Quitchupah Lease by Dr. Richard Hauck of AERC (see Appendix 4-2). As part of this evaluation he also made a record search at the State Historic Preservation office and the National Register of Historic Places. No sites were found that would be effected by the drilling activity. A ten percent cultural resource potential survey was completed by Les Sikle, Forest Archeologist, Manti-La Sal National Forest. A copy of his report is included in Appendix 4-2 along with the Utah State Historical Society's concurrence letter.

An intensive cultural resource evaluation of a proposed breakout, substation and power line in the Link Canyon Locality conducted by Dr. Richard Hauck of AERC is included in Appendix 4-2. No cultural or paleoentological resources were observed within the proposed Link Canyon development area during the archaeological survey.

A cultural resource evaluation of the Link Canyon Mine portals area in Link Canyon was conducted by John Senulis of Senco-Phoenix. A copy of his report is included in Appendix 4-2. The conclusion of his evaluation of the portal site was that no cultural or paleoentological resources are present. Many of his conclusions were based on work previously performed in the immediate portal area and surrounding areas by Dames and Moore, AERC, JBR, and the BLM.

There are no cemeteries, public parks, historic places, or areas within the boundaries of any units of the National System of Trails or the Wild and Scenic Rivers System located in areas to be affected by the SUFCO Mine. The Applicant agrees, however, to notify the regulatory authority and

the Utah State Historical Society of previously unidentified cultural resources discovered in the course of mining operations. The Applicant also agrees to have any such cultural resources evaluated in terms of National Register of Historic Places eligibility criteria. Protection of eligible cultural resources will be in accordance with regulatory authority and Utah SHPO requirements. The Applicant will also instruct its employees that it is a violation of federal and state laws to collect individual artifacts or to otherwise disturb cultural resources.

150 Acre Incidental Boundary Change

Cultural and Historic Information. Cultural resource information and maps identifying cultural and historical study areas are located in Appendix 4-2. Dr. Richard Hauck of AERC conducted an intensive evaluation of the 150 acre IBC. Four new sites were discovered and recorded during the evaluation. All the sites are located on or near the east rim of Box Canyon. The sites include two significant rock shelters (42SV 2492 and 42SV 2495), a significant ceramic scatter (42SV 2493), and a non-significant kill-butchering locus (42SV 2494).

Site 42 SV 2492 - The site consists of a rock shelter. This site is considered to be a significant resource and excellent potential for National Register classification. The site is 15 meter wide with a sandstone arched roof and is susceptible to surface subsidence.

Site 42 SV 2493 - The site consists of ceramic scatter occupying an area of 20 to 30 meters on the bedrock top at the canyon rim. This site is considered to be a significant resource and has the potential for National Register classification. This site is not considered to be at-risk or susceptible to surface subsidence.

Site 42 SV 2494 - The site consists of a dispersed scatter of debris and lithic tool fragments and is situated on the bedrock on the east rim overlooking Box Canyon. This site is not considered to be a significant resources and lacks potential for National Register classification.

Site 42 SV 2495 - The site consists of a scatter of debris primarily on the north facing slope below the base of a shallow shelter under a sandstone ledge. The site is considered to be a significant resource and has limited potential for National Register classification. This site is not considered to be at-risk or susceptible to surface subsidence.

The Applicant agrees, however, to notify the regulatory authority and the Utah State Historical Society of previously unidentified cultural resources discovered in the course of mining operations. The Applicant also agrees to have any such cultural resources evaluated in terms of National Register of Historic Places eligibility criteria. Protection of eligible cultural resources will be in accordance with regulatory authority and Utah SHPO requirements. The Applicant will also instruct its employees that it is a violation of federal and state laws to collect individual artifacts or to otherwise disturb cultural resources.

Pines Tract Area

Cultural and Historic Information. Cultural resource information and maps identifying cultural and historical study areas are located in Appendix 4-2. Dr. Richard Hauck of AERC made a record search at the State Historic Preservation office, National Register of Historic Places and conducted field investigations under state project numbers UT-96-AF-0443f and UT-97-AF-0598f. AERC coordinated the research and field investigations with SHPO.

Information concerning the potential of specific sites as to being either in the subsidence zone or out of the zone or being evaluated or unevaluated is contained in the Memorandum of Agreement between Federal and State agencies.

The monitoring, treatment plans and mitigation of the cultural resource sites will be in accordance with the Memorandum of Agreement (MOA) 00-MU-11041000-017, and any amendment to it, between the USFS - Manti-La Sal, USHPO, the Advisory Council on Historic Places, UDOGM, and the SUFCO Mine located in Appendix 4-5.

Sufco intends to undermine portions of the East Fork of Box Canyon beginning in the Fall of 2003 as they extract coal from the 3LPE and 4LPE longwall panels. This change in the mining plan will change the required monitoring schedule in accordance with the Memorandum of Agreement for site 42SV2430/ML-3446 - Elusive Peacock which will be undermined under the 3LPE longwall panel. In accordance with pages 11-12 of the MOA the required monitoring schedule of this site will change from Monitor Schedule A (Sites in areas that will be mined using full-support methods) to Monitor Schedule B (Sites in areas which will be mined under and subsided) requiring the implementation of additional monitoring of the site. Monitoring results will be provided in DOGM Annual Reports. (2003, 2004, 2005, 2006, and indefinitely until movement ceases)

Historic properties documented in the Pines Tract area include 42SV2424, a sawmill, and site 42SV2391 a complex of trash scatters. Both sites are considered ineligible for the NRHP.

The Applicant agrees, however, to notify the regulatory authority and the Utah State Historical Preservation Office (SHPO) of previously unidentified cultural resources discovered in the course of mining operations. The Applicant also agrees to have any such cultural resources evaluated in terms of National Register of Historic Places eligibility criteria.

Muddy Creek Coal Tract Area

Cultural and Historic Information. Cultural resource information and maps identifying cultural and historical study areas are located in Appendix 4-2. Cirrus Ecological Solutions, LC conducted an intensive evaluation of the Muddy Tract Area. Thirty-four sites were documented during the evaluation.

The three sites located in the SITLA Muddy Tract lease area are located on or near the east rim of Box Canyon. The sites include two significant lithic scatters (42SV2554 and 42SV2597), and a non-significant lithic scatter (42SV2594). None of these three sites will be undermined under the present mine plan.

The Applicant agrees, however, to notify the regulatory authority and the Utah State Historical Preservation Office (SHPO) of previously unidentified cultural resources discovered in the course of mining operations. The Applicant also agrees to have any such cultural resources evaluated in terms of National Register of Historic Places eligibility criteria.

4.1.1.2 Previous Mining Activity

Portions of the mine plan area were mined prior to the filing of this permit application. SUFCO Mine began a small operation mining the Upper Hiawatha Coal seam in 1941. There was no previous mining activity prior to the 1941 SUFCO operation.

From 1941 through 1974, the coal was removed by conventional mining techniques. From 1974 through 1978, both conventional and continuous mining methods were used. From 1978 until October 1985, all mining used continuous mining methods. Since October 1985 both continuous mining and longwall mining methods have been used. The portion of the seam mined by conventional methods was only partially extracted leaving all pillars for support. The majority of the mining done has been full extraction. All longwall mining is full extraction.

The quantity of coal mined prior to this permit application was approximately 37,058,100 tons. The earlier workings are shown on Plate 5-1 as an integral part of the mining operation.

Use of the land preceding mining was primarily grazing. The area also supported limited timbering in the Ponderosa stands and hunting.

4.1.2 Reclamation Plan

4.1.2.1 Postmining Land Use Plan

All uses of the land immediately prior to mining and the capability of the land to support prior alternate uses will remain equally available throughout the life of the mine without impact from underground mining except on insignificant levels. The infinitesimal effect of underground mining on surface use is accounted for as follows:

1. Isolated facilities in use for duration of the mine, including portal and associated buildings, comprise only 46.233 of the 26,767.14 acres under consideration, which is too small to adversely affect general land use.

2. Gradual and even subsidence over most of the permit area is too imperceptible to affect general land use. The ultimate subsidence affect over the lease will be "uniform." As a qualification, there probably will be an uneven arching effect on the surface over the full-extraction mining areas during actual mining operations which will stabilize in uniform subsidence once the entire area has been mined. The total subsidence effect should be minor so as to not affect general land use.

The Applicant intends that the postmining land uses will be consistent with the land use plans prepared by the Forest Service. Final reclamation activities such as grading and seeding as detailed within this M&RP will be completed in a manner to provide uses of the lands consistent with those uses required by the U.S. Forest Service land use plans. Retention of pre-SMCRA highwalls is discussed in Section 5.5.3.6.

The SUFCO Mine lease areas are predominantly U.S. Forest Service land managed under the multiple use and sustained yield concepts. Present management emphasizes livestock grazing, wildlife, timber and watershed development.

The land use plans for the lease areas developed by the U.S. Forest Service includes eight different management prescriptions (U.S. Forest Service 1986):

a. Management prescription MMA. Emphasis is on leaseable minerals development. Land surface is to be made available for existing and potential major mineral developments. In units where mineral development is pending, renewable resource activities strive to be compatible with the management goals of adjacent management units. Long-term investments, such as timber planting, generally are not made. However, short-term investments, such as range and wildlife revegetation projects, may be made on these units. As the developments are removed and restoration is completed, these areas may be changed to other appropriate management units.

b. Management prescription TBR. Emphasis is on wood-fiber production and harvest. The harvest methods by Forest cover type are single tree and group selection and shelterwood in Englemann spruce-subalpine fir, Douglas-fir, ponderosa pine, mixed conifers, and clear cutting in aspen. Wildlife habitat diversity may be enhanced by vegetative manipulation. Livestock grazing may be permitted. Water yield could be altered through vegetation management, as well as decrease evapotranspiration and maximize snow retention in small openings on low energy slopes. Dispersed recreation opportunities vary between semiprimitive non-motorized and roaded natural appearing.

c. Management prescription RNG. Emphasis is on production of forage and cover for domestic livestock and wildlife. Intensive grazing management systems are generally favored. Nonstructural restoration practices include a full spectrum of treatments such as plowing, seeding, cutting, chaining, burning, spraying with herbicides, crushing, pitting, furrowing, and fertilization. Dispersed recreation opportunities vary between semiprimitive non-motorized and roaded natural

appearing. Management activities are evident, but harmonize with the natural setting.

d. Management prescription GWR. Management emphasis is on providing general big-game winter range. These are areas wildlife traditionally use. Treatments of various types are applied to increase forage production and plant species composition. This may include chaining, cutting, prescribed burning, seeding, spraying, planting, and other treatments. Selected browse species are regenerated to maintain a variety of age classes. Permanent roads and special uses may be permitted. Short-term or temporary roads are obliterated and rehabilitated within one year after intended use. Motorized use is managed as
appropriate to prevent unacceptable stress on big-game animals during the primary use season.

e. Management prescription 4B. Management emphasis is on habitat for management indicator species. The goal is to optimize habitat capability, and thus numbers of the species. Investments in other compatible resource uses may occur but will be secondary to habitat requirements. Recreation and other human activities are regulated to favor the needs of the designated species. Roaded-natural recreation opportunities are provided along forest arterial and collector roads. Local roads and trails are either open or closed to public motorized travel. Management activities may dominate in foreground and middleground , but harmonize and blend with the natural setting.

f. Management prescription 6B. Management emphasis is on livestock grazing intensive range resource management is applied. Condition is improved through use of vegetation and soil restoration practices, improved livestock management, and regulation of other resource activities. Dispersed recreational opportunities vary between semi-primitive non-motorized and roaded natural. Management activities are evident but harmonize and blend with the natural setting.

g. Management prescription 9F. Management emphasis is on improving watershed condition. This will be achieved by protection, seeding, cultural treatment or any combination of other methods that will accomplish the objectives. Management activities in the foreground, middleground, and background may dominate, but should be designed to harmonize and blend with the natural setting to the extent possible. Motorized travel is prohibited except for over-snow machines and for designated routes.

h. Management prescription KWR. Management emphasis is on providing key big-game winter range. These areas are essential to wildlife. Motorized use is managed as appropriate to prevent unacceptable stress on big-game animals during the primary use season.

4.1.2.2 Land Owner or Surface Manager Comments

Surface owner approval of the Applicant's proposed postmining land use will be confirmed by the approval of this Mining and Reclamation Plan by the respective Forest Service units for those federal lands that they administer. The private landowner comments concerning the postmining land use are contained in the UNELCO letter in Appendix 1-1.

4.1.2.3 Suitability and Capability

Final fills will not contain excess spoils.

4.1.3 Performance Standards

The performance standards for the areas to be reclaimed for postmining land use are contained in this section.

4.1.3.1 Postmining Land Use

The proposed postmining land uses will be identical to the premining land uses and the land will be capable of supporting such land uses.

4.1.3.2 Determining Premining Uses of Land

The Applicant plans for the same postmining land uses as existed before the operation began.

4.1.3.3 Criteria for Alternative Postmining Land Uses

No alternative postmining land uses have been planned.

4.1.4 Alternative Land Use

No alternative postmining land uses have been planned.

4.20 Air Quality

This section includes descriptions of plans to comply with the Clean Air Act and applicable Utah or federal statutes and regulations pertaining to air quality standards.

4.2.1 Air Quality Standards

SUFCO Mine's mining activities are being conducted in compliance with the requirements of the Clean Air Act and the Utah Air Quality Regulations.

4.2.2 Compliance Efforts

The state of air quality control of the SUFCO Mine is generally excellent except the control of fugitive dust in the product loadout area. Watering of this area is done in accordance with stipulations in the Air Quality Permit.

a. Access road - The access road is paved and free of mud and potholes. Access to the road is limited by the surrounding terrain which leaves it free of carried-on mud or dirt by vehicles. Emissions from the access road are minimal.

b. Service area - Fugitive Emissions. The service area is compact and efficient in size and layout. The area in front of the portal and office building as well as the area in front of the shop is paved. Traffic to and from the mine is limited by the small parking area available (approximately 25 car capacity). Personnel are transported to and from the work site by company bus and van pools. Dust emissions caused by personnel and mining support operations are minimal in spite of the partially unpaved parking area. The SUFCO Mine currently employs approximately 234 people. Based-on an average round trip of 62 miles per day, 3.0 million miles of personal car transportation is saved annually by the use of company transportation. This represents an extremely significant limitation of vehicular emissions.

Fugitive dust emissions from the load out area are moderate. Coal load out operations are the source of most of the fugitive dust emissions. Trucks are routed

near the emergency coal storage area. Because some stored material must be loaded with a front end loader, physical separation of the driveway and the storage area is not feasible. Trucks encroach upon the coal storage piles resulting in a thin layer of pulverized coal dust. This emission source is controlled through regular water applications. The area is within the sediment pond collection system.

c. Coal crushing and conveying - All crushing is conducted in closed areas. The main conveyor belts are covered, as are most lifts and drop points. Fugitive emissions observed are extremely low. The low emissions were evidenced even during winds of approximately 15 miles per hour. The extremely good dust control in this area is attributed to the excellent condition of covers and seals and to the relatively high water content of the product.

d. Truck loading - Loading is primarily accomplished by dropping the product from a bin-hopper into the haul trucks. Drop points are well protected from the prevailing wind directions. Loading is accomplished almost immediately after the product is removed from the mine and the water content of the product is assumed responsible for severely limiting dust emissions. Loading of temporarily stored material by front end loader results in significantly increased fugitive emissions. The limited use of this method of loading allows discounting its overall contribution.

The operator controls fugitive dust by application of water to areas where needed. An assessment of the particulate emissions at the mine site are included as Appendix 4-3.

Due to the general excellent air quality and the Pines Tract area's high air mixing, cumulative impacts on the quality of the ambient air are minimal (Pines Tract Project EIS, 1999).

4.2.3 Monitoring Program

The UDOGM does not require an air monitoring program for the SUFCO underground mine at this time. The mine currently operates under Division of Air Quality approval orders BAQE-126-88 Waste Rock Disposal Site dated April 1, 1988 and DAQE-714-98 SUFCO Mine site dated October 28, 1998 found in Appendix 4-4.

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ENGINEERING

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will not allow mining to occur at the minimum height without putting quality at unacceptable levels. Much of the seam height in these areas is between 4-6 feet. Reserves are also lost to burn in these areas as a result of several promontories in the area which allow greater exposure of the outcrop to the atmosphere.

Mining is not planned on the northern portion of the SITLA Muddy Tract Lease ML 49443-OBA in the Upper Hiawatha Seam as a result of a sand channel and seam height that will not allow mining to occur.

The Lower Hiawatha seam will be mined in the northwest portion of the permit area where the interburden thickness between the Upper and Lower Hiawatha seams exceeds 30 feet. The mine plans are columnized or stacked where both seams are to be extracted. The Duncan seam does not contain sufficient minable reserves to warrant mining within the permit area.

The Duncan seam occurs about 100 to 130 feet above the Upper Hiawatha seam in a small portion of lease U-28297. The unsplit area of the Duncan seam is of small extent, probably less than 50 acres. Federal Lease U-28297 grants Coastal States Energy Company only the right to mine the Upper Hiawatha seam.

The Quitchupah Tract Resource Recovery and Protection Plan (R2P2) for Coastal States Energy Company's SUFCO Mine is on file with the Bureau of Land Management. The R2P2 contains detailed mine plan and reserve calculations for all of the Quitchupah Tract leases operated by Southern Utah Fuel Company.

The Pines Tract Resource Recovery and Protection Plan (R2P2) for Canyon Fuel Company, LLC SUFCO Mine is on file with the Bureau of Land Management. The R2P2 contains detailed mine plan and reserve calculations for the Pines Tract lease operated by Canyon Fuel Company, LLC SUFCO Mine.

The SITLA Muddy Tract Plan of Operations Resource Recovery and Protection Plan (R2P2) for Canyon Fuel Company, LLC SUFCO Mine is on file with the State of Utah, School and Institutional Trust Lands Administration. The Plan of Operations Resource Recovery and Protection Plan (R2P2) contains detailed mine plan and reserve calculations for the SITLA Muddy Tract lease operated by Canyon Fuel Company, LLC SUFCO Mine.

5.2.3 Mining Methods

A combination of room-and-pillar and longwall mining methods are used in the SUFCO Mine. The use of these two mining methods has been selected to maximize coal recovery and enhance production rates within the specific geologic constraints of the permit area.

Mining Methods. As noted in Section 5.2.3, both room-and-pillar and longwall mining methods are used in the SUFCO Mine. The size, sequence, and timing for the development of the underground workings are shown on Plates 5-7 and 5-8.

Physical Conditions Affecting Subsidence. A detailed description of the physical conditions in the permit area that influence subsidence (i.e., overburden lithology and thickness, coal seam thickness, etc.) is provided in Chapter 6.

Subsidence Control Measures. Most of the land within the permit area will eventually be affected by subsidence. Anticipated areas of subsidence and those areas planned for protection from subsidence are shown on Plates 5-10A & 5-10B. The primary areas where subsidence is not anticipated are the areas overlying the pre-1977 workings in Lease SL-062583 shown on Plate 5-1 (referred to herein as the "Old Mine") and certain lease areas underlying Quitchupah Canyon, Box Canyon, and Muddy Creek.

The "Old Mine" area was mined in such a manner that coal pillars were left for support throughout the entire workings. Since these pillars are large enough to support the overburden and further mining is not anticipated in these workings, the surface area above the workings should not experience any subsidence.

Where perennial streams are not undermined they will be protected from subsidence by establishing stream buffer corridors within the mine from which only limited coal recovery will occur. Support pillars will be left in these locations to preclude subsidence. Underground stream buffers will only be crossed to the extent necessary to allow access to reserves. This access will consist of entries and cross cuts with support pillars. Entries that cross through the underground stream buffer corridors with less than 300 feet of cover will be sealed and/or backfilled upon abandonment using the best available technology to prevent disturbance of the overlying streams.

Protected cultural resource sites (see Plates 5-10AC & 5-10BC located in the Sufco Mine MRP Confidential file) will be designed to include a buffer zone to protect the area from the effects of subsidence caused by underground full extraction mining. The width of the corridor will be calculated as follows: the depth of overburden to the coal seam will first be established. This depth will be multiplied by tan 15° to obtain the distance underground mining needs to be away from the area to not cause subsidence effects. An additional 25 foot buffer will be added to this calculated distance to account for minor irregularities in the course of the stream or cultural resource site.

Surface structures overlying the area to be subsided consist of trails, unimproved dirt roads, fences, runoff catchment ponds, and streams. The applicant will repair any subsidence caused damage to these or other structures to the extent economically and technically feasible, and will comply with R645-301-525.160 and R645-301-525.230. Additional mediation and remedial measures are described in Section 5.2.5.2 Subsidence Control.

Monitoring within the permit area has shown that subsidence rarely exceeds 50 percent of the mining height where the overburden thickness is greater than 800 feet. This overburden thickness is generally achieved above the rim of the Castlegate Sandstone (see Plates 5-10A & 5-10B). Topography above the Castlegate Sandstone is gently sloping while that within and below the sandstone outcrop contains cliffs and steep slopes. With the exception of the experimental mining practice described below, future subsidence is typically planned only for those areas above the rim of the Castlegate Sandstone where the overburden thickness exceeds 800 feet.

Experimental Mining and Subsidence. To protect the environmental resources associated with escarpments, SUFCO Mine currently has a general policy of precluding subsidence below the rim of the Castlegate Sandstone. This requires that significant quantities of coal remain unrecovered.

Pillars were extracted from room-and-pillar workings beneath two areas of escarpment. The location of these areas is shown on Plate 5-1. These areas involved a 5,000-foot section of

Additional aerial photography of the permit area is currently obtained on an annual basis. New elevations are then determined at each of the previously-selected horizontal coordinates and the differences between the original and the new elevation measurements are used to generate a subsidence contour map. This map and supporting narrative are submitted annually to the UDOGM in the form of a subsidence report. This subsidence report outlines the history of subsidence at SUFCO Mine as well as the status of subsidence during the previous year.

Numerous control points have been established within the permit area to assist in the subsidence surveys (see Plates 5-10A & 5-10B). Current (2005) coordinates and elevations of these control points are provided in Table 5-2. Additional control points will be added as necessary when existing points become influenced by subsidence. Future points will typically consist of 3-foot lengths of No. 4 rebar embedded in concrete with a stamped brass cap for identification. Since geologic and mining uncertainties often force a change in planned mining sequences, future control points will be installed only after the mine panels are in their development phase.

All subsidence areas will be monitored and reported in the Annual Subsidence Report for a minimum of three years after no additional subsidence is detected within the area. The applicant will map and report areas 3 and 4 in the 1993 Subsidence Report as required by Division Order #93A issued May 11, 1993.

A annual monitoring program was developed to analyze the subsidence cracks related to undermining of the West Fork of Box Canyon. Mining in the area in 1999 did produce visible fracturing at the surface on both the northwest and southeast walls of the canyon in this area. The monitoring program includes measuring the offset and/or width of portions of selected subsidence cracks. Similar data will also be collected from specified segments of subsidence cracks that have occurred away from the walls of the canyon and do not appear to be influenced by the lack of bedrock support created by the canyon. Information gathered from this monitoring program, along with previous studies that SUFCO has performed, will be used to predict the effects of subsidence within other areas of the Pines Tract and other areas of the

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
23	122238.22	110529.04	8324.02
24	122772.02	112735.32	8378.99
25	123102.58	115175.24	8425.55
43	120606.07	096818.65	8881.26
46	131958.54	096834.02	8965.92
47	131406.54	099790.57	8735.34
48	131437.05	102945.33	8696.96
49	133890.18	103488.82	8895.49
50	134285.40	106489.01	9136.09
51	134414.30	109927.37	9099.71
52	133973.55	112700.77	8892.07
53	133972.65	116076.79	8582.82
54	133222.58	119010.34	8401.40
55	133461.52	122393.42	8389.11
56	123282.97	122424.74	8686.57
57	122795.99	125334.62	8596.05
58	119334.53	118753.99	8611.25
59	112742.29	118595.02	8251.06
60	112677.39	121836.63	8657.35
61	113580.99	1253124.33	811.95
62	115900.41	125001.19	8664.21
65	122998.42	100043.41	8275.61
67	120410.01	125583.66	7658.96
67 (Revised)	120400.21	125572.86	7658.25
68	121008.67	128517.71	8667.17

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Muddy Rim	145288.54	124311.74	8328.19
Muddy Vista	145902.97	120205.73	8576.45
Murphy	119417.11	114774.23	8572.64
Nancy	124336.02	124784.67	8778.42
No Name	124961.47	107615.96	8304.06
Oak	115633.20	110789.61	8468.06
Old Road	128492.07	115262.29	8456.61
One Jump	116111.78	115519.96	8536.01
Oscar	111252.09	103359.60	8414.10
Over Time	122089.28	114328.53	8468.99
Paintbrush	136700.67	125597.47	8420.74
Pine Grove	120940.90	128889.96	8683.13
Pine Hen	115127.26	099989.19	9001.95
P.K. Nail	118833.16	109123.46	8380.49
Pot Hole	108988.85	099782.73	8294.55
Prairie View	131204.98	125857.42	8451.01
Pump Pad	103149.00	101805.27	7556.70
Rain Gauge	102915.72	101948.95	7558.47
Rain Rock	121342.03	130240.93	8691.08
Ramble On	121927.63	131923.04	8758.11
Range Pole	125342.96	113084.37	8356.94
Rattle Snake	105717.67	105315.88	8411.86
Red Nose	111823.28	124354.97	8667.55
Ridge	117277.94	107079.12	8631.14

geommorphology; location, width, frequency of cracks; and a description of repairs, if any, conducted. If the prescribed inspections cannot be conducted, the reason for the missed inspection and a record of the attempt to conduct the inspection will be submitted to the Division in the weekly report. The Division will be notified immediately after mining-induced cracks, if any, are found in the East Fork stream channel and the steps taken or planned to be taken as mitigation. Thereafter, the Division will be advised of continuing mitigation efforts, if needed, in the weekly report.

A copy of the October 2003 "Monitoring and Mitigation Plan for Mining Under the East Fork of Box Canyon" prepared by the Division and reviewed and accepted by the Forest with some modifications has been included in Appendix 3-10. The preceding paragraphs have been prepared based on this plan. Sufco will meet all of the monitoring and mitigation responsibilities described in the plan as it pertains to the undermining of the East Fork of Box Canyon.

Though not anticipated, short segments of Cowboy Creek could be subsided in the SITLA Muddy Tract. If this is anticipated to occur, Sufco, will submit a plan for mitigation to address, if it occurs, adverse impacts to Cowboy Creek. With the approval of the Division and concurrence of the Forest, Sufco will instigate a flow monitoring plan similar to the plan implemented prior to the undermining of the East Fork of Box Canyon. If mitigation of surface cracks are required, methods similar to those proposed and implemented in the East Fork of Box Canyon as described above could be used.

Mining within the area of the East Fork of the Box Canyon and within the area of Cowboy Canyon in the SITLA Muddy Tract will be conducted in accordance with State and Federal rules and regulations and the requirements and stipulations presented in the BLM's Conditions of Approval of the Resource Recovery and Protection Plan (July 31, 2003) located in Appendix 1-2. A survey of the water quality and quantity of surface and groundwater, including State appropriated waters, within the SITLA Muddy Tract has been completed. The results of the area survey are included in the PHC for the SITLA Muddy Tract and included in Appendix 7-20. Ground and surface waters in the tract that have attached rights are listed in Appendix 7-1.

A discussion regarding the methods Sufco would employ to mitigate and replace an adversely affected State appropriated water supply is provided in Chapter 7, Section 7.3.1.8.

5.2.5.2 Subsidence Control

Adopted Control Measures. As indicated above, SUFCO Mine has adopted subsidence-control measures in areas where surface resources are to remain protected. These controls consist primarily of leaving support pillars in place in those areas designated on Plates 5-10A & 5-10B as not planned for subsidence. Based on experience and data collected from the permit area, the design of support pillars for those areas where subsidence is not planned has been based on the following equations:

$$SF = SD/OS \qquad (5\text{-}1)$$

where SF = safety factor against pillar failure (fraction)

SD = support strength density (psi)
= $(Y_c)(1\text{-}ER)$

Y_c = average compressive yield strength of the coal (psi)
= 3090 psi for the Upper Hiawatha seam

ER = extraction ratio (fraction)
= $1\text{-}(A_p/A_t)$

A_p = pillar area (ft^2)

A_t = area supported by pillar (ft^2)

OS = overburden stress (psi)
= $(d)(D_o)/144$

d = overburden depth (ft)

D_o = overburden density (lb/ft^3)
= 160 lb/ft^3 for the permit area

Based on these equations and data, the support pillar designs summarized in Table 5-3 have been derived. This equation does not take into account either size effect or shape effects and is based on a one-dimensional stress field. Historically this equation has provided good results when used in areas where a number of uniform pillars are extracted. One area (5 North panels) of the mine

experienced pillar failure when the area was flooded with water after mining of the panels had been completed. This particular area was mined using a double pass technique and the mining height was from 14 to 18 feet. The resulting pillars varied from 25 feet x 25 feet to 40 feet x 40 feet. The underlying floor was a weak mudstone that lost its cohesive strength when wet. When the 1R5N and 2R5N panels were flooded the underlying mudstone became saturated and lost its cohesive strength. This allowed the pillars in the area with SF < 2.5 to fail, because frictional confinement on the bottom of the pillar was lost. To prevent reoccurrence the Applicant will commit to not flood areas of the mine that have small pillars and a weak mudstone floor in areas where subsidence is to be prevented.

Compliance With Control Plan. SUFCO Mine will comply with all provisions of the approved subsidence control plan.

Correction of Material Damage. No material damage of surface resources is anticipated as a result of subsidence in the permit area. However, should material damage occur, SUFCO Mine will correct any material damage resulting from subsidence caused to surface lands to the extent technologically and economically feasible by restoring the land to a condition capable

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GEOLOGY

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CHAPTER 6
GEOLOGY

6.10 Introduction

This chapter presents a description of the geologic resources in the area of the SUFCO Mine.

6.1.1 General Requirements

The geologic resources in the SUFCO Mine area are discussed in Sections 6.2.1 through 6.2.7 of this chapter. The plans for casing and sealing of exploration holes and for subsidence monitoring are addressed in Sections 6.3.1 through 6.3.2.

6.1.2 Certification

All maps, plans, and cross-sections presented in this chapter, required by the regulations, have been certified by a professional engineer.

6.20 Environmental Description

This section presents a description of the geologic resources in the area of the SUFCO Mine.

6.2.1 General Requirements

This section presents the regional and site-specific geologic information for the SUFCO Mine area. The site-specific geologic information for the nearby waste rock disposal site is contained in Volume 3, Part 2.2.

6.2.2 Cross Sections, Maps and Plans

Plate 6-1 presents the surficial geology of the site area, the coal outcrop lines and the strike and dip of the coal seam mined. Plate 6-1 also presents the locations of the drillholes in the mine area. Elevations are given for the drillholes which were logged and sampled. These logs are presented in Appendix 6-1.

The geologic cross-sections, presented on Plate 6-2, 6-3, 6-4 and 6-5, displays the thickness of the coal seams together with their surrounding lithology and the lateral correlation of coal seams using the following drillholes, measured underground mine sections, and measured outcrop sections. (Figure 6-1 presents the generalized stratigraphic section for the mine area.)

- MC-80-16-7
- MC-80-17-8C
- TP-1
- 76-29-Y
- 2L4E (Underground)
- US-77-5
- 76-32-J
- 76-32-I
- US-79-14
- 2R5E (Underground)
- US-79-17
- US-79-10
- US-79-8
- 01-8-1
- MC-80-9-2C
- MC-80-2-1C
- CH-83-6
- MC-80-15-6
- TP-4
- MC-80-13-5C
- WM-82
- DS-97-2
- MC-80-2-1C
- MC-80-12-4
- MC-80-23-10
- TP-3
- UL-77-2
- MC-80-26-13C
- 01-7-1
- 01-9-1
- MC-80-10-3

(Figure 6-1)

Generalized Stratigraphic Section

The Applicant has a Resource Recovery and Protection Plan (R2P2) on file with the Bureau of Land Management. This R2P2 contains a detailed description of the two mineable coal seams on the SUFCO Mine leasehold. The overlying Duncan Seam is not considered mineable (see Section 5.2.2).

There is a plugged and abandoned gas well located in Section 23, T21S, R5E in the Pines Tract. No other oil or gas wells are known to exist within a quarter mile of the mine area. No other water wells have been drilled in the permit area except those drilled by the applicant for the purpose of monitoring the groundwater.

6.2.3 Geologic Determinations

The information required by UDOGM to make a determination of the acid or toxic forming characteristics of the site strata is presented in Section 6.2.4.3 of this M&RP.

The information required by UDOGM to make a determination as to whether the reclamation plan, described in Section 5.40, can be accomplished is presented in Section 6.2.4.

The information required to prepare the subsidence control program is addressed in Section 6.2.4.

6.2.4 Geologic Information

6.2.4.1 Regional Setting

The SUFCO Mine is located beneath the Old Woman Plateau, 20 miles east of Salina, Utah. The Old Woman Plateau lies in the Wasatch Plateau Subprovince of the Colorado Plateau Physiographic Province.

Stratigraphy. All rock units within the SUFCO Mine property boundaries are sedimentary (Plate 6-1 and Figure 6-1). No igneous or metamorphic units are found in the area. Most exposed, consolidated sedimentary rocks in the area were deposited during the Cretaceous Age of the Mesozoic Era. The uppermost North Horn Formation is Upper Cretaceous to lower Tertiary

(Paleocene) in age. The oldest unit is the Upper Cretaceous Masuk Member of the Mancos Shale, which is overlain in order of increasingly younger rocks, by the Star Point Sandstone Member of the Blackhawk Formation; the Upper Blackhawk Formation, the Castlegate Sandstone, the Price River Formation and the overlying North Horn Formation (Figure 6-1).

Mancos Shale-Masuk Member

The Masuk Member of the Mancos Shale has been mapped throughout eastern Utah and western Colorado. The Masuk Member crops out along the entire eastern edge of the Wasatch Plateau and varies in thickness from 300 to 1,300 feet (Davis, and Doelling, 1976). It thins from north to south and from east to west. The Masuk is probably 500 to 600 feet thick in the North Fork of Quitchupah Canyon on the east side of the mine property.

The Masuk Member of the Mancos Shale is the lowest rock unit exposed and consists of blue-gray fissile claystone or silty claystone which weathers light blue-gray to light tan. The unit contains thin calcareous sandy or silty interbeds which increase in frequency toward the top of the unit. The interbeds are usually light tan to yellow, and in places their weathering gives the Masuk a light tan cast. The Member forms the lower slopes of the Convulsion and North Fork Quitchupah Canyons on the south and east sides of the mine property. It forms steep, barren, easily eroded slopes with occasional ledges of more resistant fine-grained sandstone, siltstone, or sandy claystone.

Star Point Sandstone

Exposures of the Star Point Sandstone form a broad, arcuate band crossing eastern Utah and extending into eastern Wyoming, where it is roughly correlative to the Shannon Sandstone of the Cody Shale, and into southwestern Colorado and northeastern New Mexico, where its equivalent is the Point Lookout Sandstone (McGookey, 1973). The Star Point in Utah is almost continuously exposed for about 100 miles along the eastern edge of the Wasatch Plateau (Spieker, 1931).

The unit ranges in thickness to more than 1,000 feet in the Pleasant Valley area in the northern part of the Wasatch Plateau. Eastward, it intertongues and grades with the Mancos Shale until it is absent as a unit near Sunnyside in the Bookcliffs. The unit thins southward along the Wasatch Plateau, and the lowermost units of the Star Point grade into the underlying Masuk Shale (Spieker,

1931). Near the SUFCO Mine property, Bucurel (1977) estimates the Star Point to be about 200 feet thick. The top of the Star Point is nearly planar in the mine area, with the exception of some intertonguing with the overlying Blackhawk Formation (Marley, 1980) in Convulsion Canyon, and again in the Link Canyon-Muddy Creek area northeast of the SUFCO Mine property.

The Star Point Sandstone is a tan to gray, fine- to medium-grained, friable, usually well sorted sandstone, with minor thin interbeds of siltstone or claystone. In places, the upper few feet are bleached white. Marley and Flores (1977) note that the Star Point contains trace fossils, and that siltstones and shales in the unit are intensely bioturbated. Marley et. al. (1979) state that the Star Point Sandstone is a coastal complex of distributary channel, delta front, and beach barrier sediments. The Star Point Sandstone in the mine area is a massive cliff-forming unit which created a nearly unbroken ledge along Convulsion Canyon and North Fork Quitchupah Canyons.

Blackhawk Formation

The Blackhawk Formation outcrops from Thousand Lakes Mountain in south central Utah along the Wasatch Plateau northward to the Bookcliffs, and eastward along the Bookcliffs to a few miles east of Thompson, Utah, in Grand County, where it pinches out. The unit is well exposed along the front of the Wasatch Plateau and in the canyons cutting the Plateau. In the mine area, it is well exposed in Convulsion and Quitchupah Canyons. The Blackhawk Formation varies in thickness from 400 feet, south of John's Peak (Davis, and Doelling, 1976), to 1,750 feet in the Pleasant Valley area (Hintze, 1973) with a general thickening from east to west. On the SUFCO Mine property the Blackhawk varies in thickness from 700 to 830 feet,generally thickening northeastward.

The Blackhawk Formation consists of interbedded alluvial plain and marginal marine deposits of sandstone, siltstone, claystone and coal. Sandstone comprises up to 65 percent of the total thickness of the Blackhawk Formation. The fine- to medium-grained sandstones occur as thin to massively bedded paleochannel deposits. The paleochannels increase in frequency, thickness, and lateral extent upward in the formation. There is also a vertical repetition of erosional scours within the upper sandstones (Marley et. al., 1979). The sandstones grade laterally into siltstones and shale. Most of the coal seams in the Blackhawk occur in the lower 200 feet, with the thicker coal seams occurring in the lower 150 feet.

Three coal seams with thickness greater than five feet (the Upper Hiawatha Seam and two others of lesser importance; the Lower Hiawatha Seam and the Duncan Seam) are found in the Blackhawk Formation within the mine property (Figure 6-1). The Upper Hiawatha Seam is the only one of the three which is minable within most of the mine property boundary. This seam has a thickness of between 9 and 18 feet over most of the property but thins sufficiently due to a mid-seam parting in the southeastern portion of the property that it becomes unminable. The Lower Hiawatha Seam occurs in the interval between the Upper Hiawatha Seam and the Star Point Sandstone. It is 2 to 29 feet above the Star Point Sandstone. The interval between the two coal seams varies between 5.6 and 70 feet. The Lower Hiawatha Seam is thin and discontinuous, varying in thickness from 0 to 17.2 feet. The seam is rendered unminable over much of the property due to partings. The Lower Hiawatha seam is only considered to be mineable where the interburden between the Upper Hiawatha seam is greater than 30 feet. This condition and a sufficient mining height occurs only in the northwest corner of the SUFCO Mine property.

The third coal seam occurs 100 to 130 feet above the Upper Hiawatha and has been informally named the Duncan Seam by the SUFCO Mine. The Duncan seam occurs in a small portion of lease U-28297. Because it is of such limited lateral extent, it cannot be correlated with any coal seams in areas surrounding the SUFCO Mine property. It has a maximum thickness of ten feet and is not mineable because of its limited lateral extent. The unsplit area of the Duncan seam is of small extent, probably less than 50 acres. The Duncan zone may correlate with the Muddy coal seam which occurs north of the SITLA lease.

The Upper Member of the Blackhawk Formation generally forms a steep, irregular slope between the cliffs of the underlying Star Point Sandstone and the overlying Castlegate Sandstone. Ledges of sandstone up to 50 feet thick break the slope. In some exposures, the unit is nearly vertical where the Star Point below has sheared off and erosion has not brought the slope to equilibrium. In Convulsion and Quitchupah Canyons, there are large areas of coal burn where the coal has burned naturally and baked the enveloping clays and sandstones to form a resistant reddish clinker layer. These areas are generally steeper than the surrounding slopes. Vegetative cover is generally sparse such that the Blackhawk strata can be easily seen except on some north-facing slopes where vegetation masks the unit.

Castlegate Sandstone

The Castlegate Sandstone extends across the eastern part of Utah, along part of the Bookcliffs and the entire length of the Wasatch Plateau (Spieker, 1931) but loses its character as a cliff-former south of Interstate Highway 70. It is correlative to the Cliffhouse Sandstone of southwestern Colorado and northern New Mexico (McGookey, 1973). In the Wasatch Plateau, its thickness varies from 50 to 500 feet (Spieker, 1931). It is thickest in Price River Canyon at the north end of the Wasatch Plateau. The Castlegate Sandstone is exposed along the rims of Convulsion and North Fork of Quitchupah Canyons. Its thickness varies across the SUFCO Mine property from about 120 to 260 feet with a general northwestward thickening.

The Castlegate Sandstone is a fluvial deposit composed mostly of sandstone, conglomeratic sandstone, pebble conglomerate, and gritstone lenses. There are some thin interbeds of siltstone and claystone, especially toward the base of the unit. The member forms much of the surface of Old Woman Plateau in the southern part of the mine property, and creates a nearly unbroken cliff along the canyons which flank the SUFCO Mine on the south and east.

Price River Formation

The Price River Formation is the uppermost member of the Mesa Verde Group and in the vicinity of the mine it caps the mesa which forms the Old Woman Plateau. The formation is reported to be approximately 550 feet thick in the mine area.

The Price River Formation consists of gray to white gritty sandstone, interbedded with subordinate shale and conglomerate. The formation is resistant to weathering and is a ledge and slope former due to interbedding of resistant sandstones with less resistant shales and claystones.

North Horn Formation

The North Horn Formation straddles the Cretaceous-Tertiary boundary. The maximum thickness of the North Horn within the permit area occurs on Big Ridge where it is estimated to be approximately 430 feet thick. A few seasonal springs are found in the North Horn. The Castlegate

Sandstone, other beds of the Price River Formation and the North Horn Formation constitute the cap rock in this area of the Wasatch Plateau.

According to Spieker (1931), the North Horn "consists in the central part of the Plateau predominantly of vari-colored shale, in which the combinations of various shades of red, purple, chocolate-brown, green, and gray are characteristic of the coloring of (correlative) rocks in the general region, but it contains many irregular beds of gray, brown, and cream-colored sandstone of various texture, and thin beds of fresh-water limestone, chiefly steel-gray and cream colored but in places also white, tan, and dark blue-gray. In the southwestern, central-eastern, and northern parts of the Plateau the member contains more sandstone. Beds of conglomerate occur in the member irregularly both as to horizon and locality."

Structure. The mine area lies midway between the Joe's Valley-Paradise Fault Zone to the east and the Musinia Fault Zone to the west. Rock units in the mine area strike roughly N40°E and dip 1 to 2 degrees (about 250 feet per mile) to the northwest (Plate 6-1). Local dips may range up to 10 degrees in areas where paleochannels underlying the coal seam cause significant differential compaction. Such local structural variations cannot generally be predicted based on drilling due to the narrow width and sinuous character of these paleochannels found in the lower Blackhawk Formation.

Small displacement faults (apparent vertical displacement of about three feet or less) and some of greater displacement have been encountered and will be encountered as development of the SUFCO Mine progresses. These faults most commonly strike approximately N10° to 15°W and are near vertical. Joints occur parallel and normal to the fault trend.

Geomorphology. The Old Woman Plateau is a gently rolling plateau which is dissected by canyons incised by Quitchupah Creek and its tributaries (Plate 6-1). These canyons are steep-walled and adjacent plateau areas are capped by the Castlegate Sandstone. In the southern part of the mine area, there are areas on the plateau where the nearly flat-lying bedrock forms the surface of the plateau. This structural plain feature is common in the Colorado Plateau. There are

also erosional remnants above the plateau surface such as Duncan Mountain and Little Duncan Mountain that are comprised of the Price River Formation and the North Horn Formation. Range terraces were developed on one of the slopes of Little Duncan Mountain during the 1930's.

Tension cracks were developed during the 1970's near East Spring Canyon due to subsidence. These cracks are now mostly healed at the surface by the soil filling them in. Additional subsidence-related tensions cracks have formed within the Pines Lease. Those occurring in soil have healed over time, however, those occurring in the Castlegate Sandstone outcrop are still visible.

Quitchupah and Box Canyon Creeks are perennial and are supplied by springs and ephemeral streams.

Surface and Groundwater Impact. Surface and groundwater impact are discussed in Chapter 7 of this M&RP.

Coal Geology. The coal which is extracted from the SUFCO Mine occurs in the lower portion of the Blackhawk Formation of the Mesa Verde Group of rocks of Upper Cretaceous age. Doelling (1972) identifies the seam as being the Upper Ivie bed while the SUFCO Mine calls it the Upper Hiawatha. The Blackhawk is overlain by the Price River Formation, including the Castlegate Sandstone, and is underlain by the Star Point Sandstone, all being members of the Mesa Verde Group.

The Upper Hiawatha coal seam has quite uniform thickness from southwest to northeast as shown in the Cross-Sections (Plates 6-2, 6-3 and 6-4). North and west of section 7, T22S, R5E, the thickness is also uniform and averages approximately 15 feet. Drillhole information (Appendix 6-1) and Spieker (1931) indicate that the coal thins from Section 7 toward Convulsion Canyon to the southeast. Drillhole data show 6.3 feet of coal in Section 7.

The as-mined quality of the Upper Hiawatha coal seam averages 11,400 BTU, 9.4% ash, 9.5% moisture, 38% volatile matter and 44% fixed carbon.

The Duncan Coal Seam will not be mined as a part of the SUFCO Mine operations because it is discontinuous and has insufficient minable reserves. The Lower Hiawatha Coal Seam will only be mined in the western portion of the Quitchupah lease because this is the only area where the coal is thick enough to mine and there is sufficient interburden between the Upper and Lower Hiawatha seams to allow mining. The Lower Hiawatha seam may also occur in minable thickness at the northern edge of the SITLA lease but it is not currently under lease (only the Upper Hiawatha seam is under lease).

Cross-Sections, Maps and Plans. The cross-sections and maps are discussed in Section 6.2.4 and are located at the end of this chapter. The applicant request's that this information remain confidential.

Drill Logs and Chemical Analyses. See Section 6.2.4.3 and Appendices 6-1 and 6-2. The applicant requests that this information remain confidential and that public access to these sections be limited to only persons with an interest which is or may be adversely affected as provided under Section 40-10-10(4) of the Act.

6.2.4.2 Test Boring and Drillhole Data (overburden removed)

SUFCO Mine does not plan to remove any overburden above the coal seam to be mined. Regulations related to overburden removal do not apply to this M&RP.

6.2.4.3 Test Boring and Drillhole Data (overburden not removed)

The drill logs and chemical analyses required by regulations R645-301-624.310 through R645-301-624.330 are presented in Appendices 6-1 and 6-2.

Lithologic Logs. Lithologic logs of drillholes are presented in Appendix 6-1. The applicant requests that this information be kept confidential and that public access to these sections be limited to only persons with an interest which is or may be adversely affected as provided under Section 40-10-10(4) of the Act.

Acid, Toxic, and Alkaline Chemical Analyses (above and below the coal seam). Chemical analyses for acid- and toxic-forming and alkalinity-producing materials from the waste rock disposal site and roof and floor rock material from drill cores is presented in Appendix 6-2. Using Table 2 in the Guidelines for Management of Topsoil and Overburden for Underground and Surface Coal Mining (Appendix 6-3), only two unacceptable values have been reported. Samples of material placed in the waste rock disposal site are taken regularly and analyzed quarterly and are considered to be representative of the coal, roof, floor, and partings. The boron concentration of the waste rock disposal site sample taken in the second quarter of 1991 exceeds the acceptable level of 5.0 ppm by only 0.44 ppm; therefore, this boron value is not of significant concern. Secondly, the SAR value of 19.30 for the Upper Hiawatha coal seam in drillhole 89-20-2 is unacceptable. However, as there have been no other unacceptable SAR values since this sample was taken, it is probably due to contamination, lab error or sampling error. Analytical results of all other samples are acceptable.

Acid, Toxic, and Alkaline Chemical Analyses (coal seam). The chemical analyses discussed above are also representative of the coal seam mined. Additionally, analyses of pyrite and sulfur forms have been performed on roof, parting, and floor samples taken from various core holes. The results of these analyses are reported in Appendix 6-2.

Properties of Rocks in Room and Pillar Areas. Room and pillar mining is now only used in the stream buffer zones and beneath escarpments to prevent subsidence. Pillars are not removed in these areas.

The clay content of floor and roof rock samples from two drill holes was determined analytically (see Appendix 6-2) but otherwise clay content is based on description of cores. The lithology of the stratum immediately below the minable coal varies from drillhole to drillhole. Therefore, the clay content will range from almost 100% (pure claystone) to less than 5% (submature or mature sandstone). Drillholes 74-36-5, 76-28-K, 76-29-Y, US-79-14, US-79-15 and US-81-4 penetrate the stratum immediately below the coal seam to be mined. Lithologic logs for these drillholes (which include lithotypes of the stratum immediately below the coal seam to be mined) are presented in

Appendix 6-1. No engineering properties for the underlying claystone have been determined, because its friable nature makes it next to impossible to prepare samples.

6.2.5 Additional Geologic Information

It is not anticipated that any additional geologic data will need to be collected for this site.

6.2.6 Sampling Waivers

SUFCO Mine does not request a sampling waiver for this site.

6.2.7 Description of the Overburden Thickness and Lithology

Overburden thickness above the coal seam varies due to the plateau and canyon-type topography from approximately 600 to 1800 feet and averages about 900 feet. Stratigraphically, the overburden consists of the Upper Blackhawk Formation which contains the coal seams, the Castlegate Sandstone, the Price River Formation, and the North Horn Formation, as described in Section 6.2.4.1 of this M&RP.

6.30 Operation Plan

6.3.1 Casing and Sealing of Exploration Holes

The information addressing regulations for casing and sealing of exploration holes is found in Section 7.6.5 of this M&RP. This includes both the temporary and permanent casing and sealing of exploration holes. The applicant believes all exploration boreholes that have not been used for piezometers have been plugged properly prior to abandonment as required by the regulatory authority. This plugging was the final step in the drilling process prior to abandonment of the well.

6.3.2 Subsidence Monitoring

Subsidence and subsidence monitoring points are discussed in detail in Section 5.2.5 of this M&RP. The extent of the subsidence is shown on Plate 5-10. Subsidence monitoring is performed on an annual basis and the results of the monitoring are reported in the annual report.

Surface cracking related to mine subsidence has occurred above the existing mine workings at the Sufco mine. The cracks are surveyed and illustrated on the Mine Subsidence Map included in the annual report. Subsidence cracks that form due to mining generally occur over mined panels and above the inside edges of the gateroads. Where the overlying topography is relatively flat, such as in the Pines tract, cracks will form in the soils and bedrock parallel, sub-parallel and perpendicular to the long axis of the panel. In this type of area, the cracks will typically have minimal aperture and minor vertical offset. Subsidence in areas of the Quitchupah and Pines Tract where a deep drainage with steep canyon walls capped by Castlegate Sandstone exist, cracks have formed parallel to the drainage rim and may or may not be parallel to the axis of the panel. Occasionally, these cracks remain open after subsidence is complete. Sufco has repaired several cracks on the rim above the East Fork of Box Canyon where it was determined they presented a safety hazard.

Where bedrock is exposed at the surface and the local joint pattern is evident, subsidence fractures appear to be parallel or sub-parallel to the orientation of the panel. The cracks typically form an en echelon pattern on either side of the joint and may intersect with the joint. After the crack intersects the joint, it will travel within the joint itself for a short distance. However, the crack will reappear in

the bedrock again outside of the joint as the en echelon pattern continues. In the Pines Tract and Quitchupah areas, jointing generally does not appear to have significant effect on the location or propagation of subsidence related fractures. Exceptions to this occur where the Castlegate Sandstone has been subsided at or near the rim of steep drainages or canyons. In these areas, large blocks of sandstone have been observed to rotate toward the drainage during subsidence. Often, after subsidence is complete, the blocks remain at their new attitudes leaving an opening between the block and the in-place sandstone. Where the aperture is deemed hazardous, Sufco has backfilled the openings.

Subsidence in the Muddy tract area will occur in the Price River and North Horn Formations. Because these formations consist of ledge/slope forming interbedded sandstone, siltstone, shale and limestone and are typically overlain by a mantle of soil, little bedrock is exposed at the surface. Therefore, it would be difficult to determine the relationship of subsidence crack formation and bedrock jointing. It would be appropriate to assume, however, that subsidence cracks will form in this tract similarly to those found in the previously mined and subsided areas of the Sufco mine.

6.3.3 Exploration Drilling

The purpose of exploration drilling is to obtain stratigraphic and coal quality information to make for more accurate mine planning and maintain a high level of miner safety. The exploration area is located within the current mining permit boundary of Permit ACT/041/002 as shown on Plate 6-1. The SUFCO Mine is planning to drill up to 5drill holes over the next 5 years. In the case of the SITLA lease, drilling will be conducted as approved under a Division-approved Minor Coal Exploration Permit. As in the past, drilling on federal leases with USFS administered surface will continue to be permitted through the BLM Exploration Plan process. The SUFCO Mine understands that UDOGM, the BLM, and the USFS all have a important roles in approval of drilling and will continue to work diligently to ensure requirements of all involved agencies are met prior to conducting surface exploration work.

Drill site preparation, drilling, and final reclamation work will last approximately two weeks per year. Reclamation will be concurrent with drilling to minimize the duration of the project.

The type of exploration to be used is rotary drilling or continuous wireline core drilling using a 2,000 ft rated drill rig. The drilling procedure for rotary drilling will be as follows: rotary drill using a tri-cone bit to core point, core the coal intervals using air with a diamond or carbide bit, ream the cored interval and rotary drill to total depth. Air will be used as a drilling medium as much as possible though conditions may warrant water, foam or mud. The drilling procedure for continuous wireline core drilling will be as follows: continuous core drill through total depth. Drilling medium will be water, polymer, and/or mud. Upon completion of drilling, the holes will be geophysically logged then plugged the full depth with concrete or a combination of concrete and bentonite hole plug or abandonite as approved by the BLM. A total of up to 4.0 acre-feet of water will be pumped from the North and/or South Fork of Quitchupah Creek or Muddy Creek for use during drilling and hole plugging operations. No coal will be removed beyond that which is cored.

Some of the drill sites will be accessed using existing wheel tracks or over the existing surface and a few will require that new roads be built off of U. S. Forest Service roads or existing wheel tracks (see amended Plate 6-1). Helicopter-supported drilling techniques may also be utilized at times to minimize surface impacts.

The drill sites will be approximately 80 feet by 100 feet in size. One half of the site will be for the drill rig and water truck while the other half will have 1 to 2 mud pits and temporary supply storage.

The applicant requests that any information from exploration drilling be kept confidential and that public access to any of the information be limited to only persons with an interest which is or may be adversely affected as provided under Section 40-10-10 (4) of the Act.

6.3.4 Exploration Hole Reclamation

The exploration holes will be filled with concrete or concrete/hole plug-abandonite slurry through their full depth after exploration activities are completed. Concrete will be used through all minable coal zones. This will be done by pumping concrete or slurry through the drill pipe which hangs 40-60 ft. off the bottom of the hole until the hole up to the drill pipe is filled. The drill pipe is then tripped-out another 40-60 ft. and more concrete or slurry is pumped into the hole. This process is repeated

until the full depth of the hole is filled and good drill hole wall to concrete/hole plug-abandonite contact is assured.

6.40 Performance Standards

6.4.1 Exploration and Drillholes

The performance standards used in the casing and sealing of all exploration holes and drillholes are outlined in Section 7.6.5 of this M&RP.

6.4.2 Monuments and Surface Markers of Subsidence Monitoring Points

The performance standards used in the reclamation of all monuments and surface markers used as subsidence monitoring points are outlined in Section 5.2.5.

6.4.3 Exploration Drilling

6.4.3.1 Exploration Activities

During drill site preparation, drilling and reclamation, any trash or contamination that may result from these activities, will be removed from the site. Trash and contaminants will be disposed of in an approved disposal site.

No heavy equipment will be moved if the ground is soft and rutting potential exists. All travel will stay within a twelve-foot wide track. All drilling and related equipment will be promptly removed from the exploration area when no longer needed.

The applicant's representative will, while in the exploration area, have a copy of the Division Approval for Exploration within the permit area available for review.

6.4.3.2 Soils

Where topsoil and subsoil are removed for drill site construction the methods described in Chapter 2 Soils Section 2.3.1.1 will be followed. Soil will be salvaged to at least a 12 inch depth or the full soil depth from drill sites and constructed roads to consolidated material, whichever is less. Wheel tracks used to access drill sites are considered minor disturbance as described in R645-301-232.400 and will be treated as described in Chapter 2 Soils Section 2.3.2.4. Due to the

short time topsoil and subsoil will be stockpiled and the small amount stockpiled, it will not be vegetated. All topsoil and subsoil stockpiles will be completely surrounded by a properly constructed silt fence.

Soil from constructed roads will be salvaged by pushing it into a berm and protected by diverting water away from the berm. The soil in wheel tracks will be ripped then scarified prior to reseeding.

6.4.3.3 Biology

The performance standards described in Chapter 3 Biology Section 3.5 will be followed during drill site and wheel track reclamation. A raptor survey will be done in the Spring/early Summer of 2005 and the new information will be used to ensure that nesting sites are not disturbed during drilling. Exploration activities (drilling, dirt work and reclamation) will only occur between August 1 and December 1 unless otherwise approved by involved agencies. The mitigation requested by the U. S. Forest Service NEPA documentation for the loss of water from the North Fork of Quitchupah Creek will be satisfied. No trees having cavities which could be used by nesting migratory birds of high federal interest will be removed during the exploration activities.

6.4.3.4 Hydrology

The performance standards described in Chapter 7 Hydrology will be followed where applicable during the exploration period. Though sediment yield will be negligible, sediment from drill sites will be controlled by either a properly constructed silt fence located at the lowest point on each drill site or by diverting all run-off from each drill site into the mud pit. Sediment from topsoil and subsoil stockpiles will be controlled by a silt fence around their base.

Sedimentation control from newly built temporary roads will meet that described in R 742-410 while the roads are in use. Reclamation of those roads will follow that described in Chapter 7 Hydrology, Section 7.60, to ensure post-use sedimentation control.

6.4.3.5 Archaeology

~~An archaeological survey~~ will be conducted prior to site preparation, drilling activities and use of wheel tracks for those areas which have not been previously surveyed. Should cultural or historical resources be found during these activities the activity will be stopped and the UDOGM notified.

6.4.3.6 Acid or Toxic-Forming Materials

No acid or toxic-forming materials have been encountered previously and thus are not expected to be encountered during this drilling program. The addition of suspended solids to streams will be negligible due to the small areas disturbed, the short life of the drilling program and sediment control measures that will be used.

6.50 Reclamation

6.5.1 Wheel Tracks and Drill Sites

Wheel tracks will be reclaimed by ripping followed by scarifying the soil and reseeding. Drill sites will be reclaimed by first replacing the material excavated for the mudpits, distributing the soil, and lastly reseeding. The seed mix to be used is as follows (as approved by USFS during 2004 drilling):

		Pounds PLS/Acre
Western Wheatgrass	Elymus smithii	2
Basin Wild Rye	Elymus cinereus	1
Blue Bunch Wheatgrass	Agropyron Spicatum	2
"Paiute" Orchardgrass	Dactylis glomeratus	1
Intermediate Wheatgrass	Agropyron (elymus) intermedium	2
Ladak Alfalfa	Medicago sativa Var Ladak	1
Small Burnet	Sanguisorba minor	1
Silvery Lupine	Lupinus argenteus	0.75
Mountain Aster	Aster adscendens	0.25

The seed mixture certificate will state seed germination test date, germination rate, and elevation, county and state of origin. The seed will be sold in compliance with the State Seed Act. U. S. Forest Service certified noxious weed free straw or hay will be used as mulch.

Revegetation success will be determined using the Erosion Condition Classification System developed by OSMRE and by comparison to established reference areas. The reference areas will be undisturbed areas of a similar vegetative type adjacent to the drill sites. Equipment used to reclaim wheel tracks, build roads and drill sites will be either a D-7 or D-8 size dozer or a road grader to fill mud pits, redistribute soils, and rip and scarify wheel tracks.

6.5.2 Permanent Casing and Sealing of Wells

All drill holes will be plugged with concrete as described in Chapter 7 Hydrology section 7.6.5. A permanent marker will be placed at the top of each drill hole bearing the drill hole number.

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HYDROLOGY

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Muddy Tract Hydrologic Baseline Data (Includes SITLA Tract baseline data)

TABLE 7-1

OBSERVATION WELL COMPLETION SUMMARY[a]

Well Number	Total Drilled Depth (ft)	Elev. Top of Casing (ft)	Total Depth Cased (ft)	Casing ID (in)	Length of Perf. (ft)	Formation Monitored[b]
US-77-7	1220	8495.7	Unknown	1.25	Unknown	Unknown
US-77-8	1140	8424.6	160	1.25	110	Kc
US-77-9	1140	8360.2	100	1.25	75	Lower Kc/Upper Kbh
US-79-9	970	8541.8	860	2.0	20	Upper Hiawatha Coal
US-79-10	990	8553.8	880	2.0	20	Upper Hiawatha Coal
US-79-12	990	8523.1	860	2.0	20	Upper Hiawatha Coal
US-79-13	1014	8527.6	710	2.0	20	Kbh
US-80-2	207	8380.0	200	4.0	40	Kc
US-80-4	245	8394.0	240	4.0	40	Kc
US-81-1	1300	8492.3	1300	2.0	20	Upper Hiawatha Coal
US-81-2	1450	8688.0	1460	2.0	20	Upper Hiawatha Coal
US-81-3	1980	9029.4	1940	6.0/2.0	20	Upper Hiawatha Coal
US-81-4	1300	8383.9	1300	4.5	20	Upper Hiawatha Coal
89-16-1	1065	8374.2	1003	2.875	60	Upper and Lower Hiawatha
89-16-1W	160	8374.8	154	2.875	60	Kc
89-18-1	1300	8405.8	1282	2.875	60	Upper and Lower Hiawatha
89-20-1	1025	8272.1	983	2.875	60	Upper Hiawatha Coal
89-20-2	1022	8359.5	975	2.875	60	Upper and Lower Hiawatha
89-20-2W	170	8358.8	167	2.875	60	Kc
89-21-1	1014	8389.8	973	2.875	60	Upper and Lower Hiawatha
01-8-1	1910	8994.1	1865	2.375	20	Upper Hiawatha Coal

(a) See Plate 7-3 for well locations

(b) Kc = Castlegate Sandstone member of the Price River Formation. Kbh = Blackhawk Formation

- Box Canyon, including East Fork Box Canyon (as measured at stations SUFCO-090, Pines 403, Pines 407 and Pines 408)
- Muddy Creek (as measured at stations Pines 405 and Pines 406)
- Cowboy Creek (as measured at station M-STR4)

According to Thiros and Cordy (1991), Link Canyon contains an ephemeral stream. Two small areas of riparian vegetation are supported in the canyon by discharge from springs near the head of the canyon (Link Canyon Spring GW-21, Plate 7-3) and the abandoned Link Canyon Mine workings (Link Portal West and Link Portal East, Plate 7-3). Water from Spring GW-21 near the head of Link Canyon typically flows only about 300 to 750 feet below the source, depending upon the season. Water discharged from the Link Canyon portals typically flows on the surface for 500 feet or less during early spring. In 2002, the surface flow only reached about 250 feet downstream of the portals.

Link Canyon, in the area of the portals, is typified by four types of stream gradient segments or reaches. The initial drainage segment, Segment 1, flows across a low gradient surface with a slope of approximately 3 percent (Plate 7-9). The drainage sits on top of the Castlegate Sandstone and the channel floors consist of bed rock with a thin covering of loose, fine to coarse grain sands and silts. Channels can be shallow and broad or narrow and deeply incised in the minimal soil cover. Surface water is observed flowing in this reach only after significant storm events or on a few warm days during the spring runoff. No significant riparian vegetation is associated with this reach of the drainage.

From the point where the drainage enters the canyon near spring GW-21 (which discharges from the Castlegate Sandstone) to a point approximately 1200 feet downstream, the gradient increases to approximately 12 percent. In this reach, Segment 2, the drainage is cutting through the Castlegate Sandstone and the channel floors are typified by very shallow soils consisting of sand. Bedrock is exposed at or near the surface in the channel walls in this reach. The channel itself is in the very bottom of the canyon and in locations where soil is present, it is deeply incised in the soils with steep, eroding banks. This area of the drainage is typically heavily grazed by livestock. Water flows from the springs for about 300 to 750 feet in the channel bottom before disappearing into the sands of the channel floor, into the bedrock, or evaporates. Riparian vegetation is supported in this reach

beginning at spring Pines 100 and continuing downstream about 1200 feet. The riparian vegetation consists of alders, willows, wild rose, horsetails, etc. The riparian vegetation is limited generally to the floor of the channel and the spring areas (Plate 7-9). The riparian vegetation does extend further downstream than typical surface flows suggesting water does continue to flow in the subsurface downstream of where surface water disappears. The vegetation typical of this area has been described in Chapter 3 of this M&RP.

The third segment of the stream, Segment 3, is approximately 1500 feet long and extends from a point approximately 1200 feet below Pines 100 to a point approximately 250 feet below the Link Canyon Mine Portals. The slope of the gradient in this reach is approximately 50 percent. The drainage cuts through the Blackhawk Formation and the upper Star Point Sandstone. This reach is typified by alternating sandstone ledges and shaley slopes with little to no soil cover. The channel contains large boulders, cobbles and gravel and at times is poorly defined. Surface water above the mine portals has only been observed in this reach during and shortly after significant storm events. Surface water flows downstream of the portals for a distance typically less than 500 feet. Riparian vegetation is located slightly upstream and for approximately 800 feet below the Link Canyon portals. This vegetation is typified by willow, alder, stinging nettle, rose, horsetail, carex, Kentucky Bluegrass, rush, and clematis. As in segment 2, the riparian vegetation is typically limited to the bottom of the channel or a short distance up the channel walls. This suggests that the water source for these plants is the water discharged from the mine into the channel and not an areal extensive aquifer discharging to the channel at numerous locations and elevations.

The final reach of the drainage, Segment 4, described herein runs from a point beginning approximately 250 feet below the portals to the USFS boundary and the south section line of Section 26, or approximately 2600 feet. The slope of the gradient in this reach is approximately 10 percent. The drainage channel cuts through the Mancos shale in this reach and typically has a floor of sandstone cobbles and boulders resting in fine to coarse sand and silt. The channel itself can be incised in the minimal soil cover or be broad and flat where bedrock is exposed and little soil cover is found. Surface water would flow in this reach only after significant precipitation events. However, in five years of monitoring the two sites, Link 001 (located near the base of the third stream segment)

and 002 (located near the base of the fourth stream segment), surface water has not been observed in the channel.

Station locations are indicated on Plate 7-3. All other streams within the permit and adjacent areas are ephemeral.

Based on channel-geometry measurements and a technique described by Fields (1975), Waddell et al. (1981) estimated that the historic average annual flow of Quitchupah Creek is approximately 3800 acre-feet immediately above the confluence with Link Canyon. With a drainage area of 85.4 square miles (Waddell et al., 1981), this results in a unit-area average annual streamflow of 44.5 acre-feet per square mile per year (AF/mi^2/yr) for Quitchupah Creek above Link Canyon.

The U.S. Geological Survey collected streamflow data from Ivie Creek from 1951 through 1961 at a station located approximately 11 miles south of the mine surface facilities. During the period of record, data published by the U.S. Geological Survey indicate that the average annual streamflow at this station was 2830 AF/yr. Based on a published drainage area of 50 mi^2, the unit-area average annual streamflow of upper Ivie Creek was 56.6 AF/mi^2/yr. This compares favorably with the unit-area yield of Quitchupah Creek and with the mean annual water yields presented by the Utah Division of Water Resources (1977).

Seasonal variations in historic streamflow in the vicinity of the permit area are portrayed graphically in Figure 7-5. The Muddy Creek station is located approximately 6 miles downstream from the confluence of Box Canyon and Muddy Creek while the Ivie Creek station

- Increased sediment yield from disturbed areas;
- Increased total dissolved solids concentrations;
- Flooding or stream flow alteration;
- Impacts to groundwater or surface water availability;
- Hydrocarbon contamination from above ground storage tanks or from the use of hydrocarbons in the permit area;
- Contamination of surface and groundwater from road salting; and
- Contamination of surface water from coal spillage due to hauling operations.

These potential impacts are addressed in the following sections of this M&RP.

7.2.8.2 Baseline Hydrologic and Geologic Information

Baseline geologic information is presented in Chapter 6 of this M&RP. Baseline hydrologic information is presented in Sections 7.2.4.1 and 7.2.4.2 of this M&RP. The baseline monitoring sources are believed to be representative of existing ground water and surface water. An additional inventory is not planned unless circumstances dictate a need for change.

7.2.8.3 PHC Determination

Potential Impacts to the Hydrologic Balance. Potential impacts to the hydrologic balance are addressed in the following subsections of this M&RP and in Appendices 7-17, 7-18, 7-19, and 7-20. Appendices 7-18 and 7-20 contain PHC determinations for mining activities in the Pines Tract and SITLA Muddy Tracts, respectively.

Acid- or Toxic- Forming Materials. Information on acid-and toxic-forming materials is presented in Chapter 6. These data reveal boron, sodium absorption ratio, and specific conductance exceedances of the Table 2 guidelines for management of topsoil and overburden (Leatherwood and Duce, 1988) in waste rock from the SUFCO mine. As noted in Section 7.2.4.2 of this M&RP, the alkalinity of the mine discharge water typically exceeds the acidity of this water by a factor of 20. Additionally, mine discharge water typically meets the standards for water quality for the state of Utah

(Utah Water Quality Board, 1987). Thus, analytical data obtained from mine-water discharges indicate that although potential exists in localized portions of the mine for acid- or toxic-forming materials to be present, there has been no known impact to the surface or groundwater in the permit and adjacent areas.

Sediment Yield. The potential impact of mining and reclamation on sediment yield is an increase in sediment in the surface waters downstream from disturbed areas. Sediment-control measures (such as sedimentation ponds, diversions, etc.) have been installed to minimize this impact. These facilities are regularly inspected (see Section 5.1.4) and maintained.

Data on file with the Utah Department of Environmental Quality (formerly the Utah Division of Environmental Health) indicate that waters discharging from the mine have typically not exceeded the total suspended solids standards (40 CFR 434) of 70.0 mg/l maximum, 35.0 mg/l 7-day average, and the 25.0 mg/l average daily. Samples of sedimentation pond discharge have rarely exceeded the maximum standard with the exceedances ranging from 26.0 to 261 mg/l. Except under unusual circumstances, the average total suspended solids concentration of the sedimentation pond discharge is less than the average daily standards. Thus, although a limited number of exceedances of the standards have occurred, the sediment-control measures at the mine are considered effective at minimizing the impacts of increased sediment yield on adjacent streams.

Sediment yields may increase locally due to subsidence. Subsidence cracks which intersect ephemeral drainages with steep gradients could, for a short period of time, increase the sediment yield of the stream. However, this sediment increase would cause the crack to be quickly filled, recreating pre-subsidence stream channel conditions. Thus, the potential impact to sediment yield would be minor and of short duration.

An assessment of the Alternative Sediment Control Measures to be implemented during reclamation was performed as indicated in Appendix 7-15. These calculations indicate that the implementation of each sediment control measure substantially reduces the amount of sediment erosion from the reclaimed areas, to the point that the mulch theoretically inhibits soil loss more effectively than a

baseline level of undisturbed ground cover. In fact, the combination of surface soil preparation, an application of wood fiber hydromulch at 2000 pounds per acre, and the use of silt fences results in a 37% to 85% reduction of soil erosion below that which would be expected from naturally vegetated grass/sage slopes. Thus, sediment control measures to be implemented during reclamation will preclude adverse impacts to the environment.

In the area of the Link Canyon Portal and Link Canyon Substation No. 1 and No. 2 pads and access roads, sediment yield from the disturbed areas will be controlled with berms and/or silt fences. The calculations supporting the use of berms and /or silt fences for these areas are presented in Appendix 7-15. Undisturbed runoff from above the Link Canyon Portal pad area that naturally flowed down the Link Canyon drainage will be diverted under the pad area by the use of a diversion culvert and will be channeled back into the existing Link Canyon drainage. Undisturbed runoff from above the substation pad areas that naturally flowed directly into the existing Link Canyon Road inside ditch will be diverted around the substation pad areas by the use of a diversion ditch and will be channeled back into the existing Link Canyon Road inside ditch. Sediment yield from the undisturbed drainage ditch will be controlled with a silt fence. From the point that the Substation No. 2 undisturbed drainage reenters the existing Link Canyon Road ditch the existing road ditch drainage flows for about 30' along the inside of the road before the flow is diverted across the road by an existing water bar were the flow is directed toward the channel at the bottom of Link Canyon. This drainage is by Division definition an intermittent stream. However, water only flows in this canyon in the substation areas as the result of snow melt runoff or the occasional summer thunderstorm.

Acidity, Total Suspended Solids, and Total Dissolved Solids. Probable impacts of mining and reclamation operations to the acidity and total suspended solids concentrations of surface and

7.3.1.2 Water Monitoring

Groundwater Monitoring. Groundwater monitoring is proposed to be conducted in the SUFCO permit and adjacent areas according to the water monitoring plans presented in Tables 7-2 through 7-5A and for the rock waste disposal site in Section 4.7.2 in Volume 3 of this M&RP. These tables are based on the studies done by Mayo and Associates (Appendices 7-17 and 7-18) and supersede previous plans.

The location of the monitoring points are presented on Plate 7-3. The location of the monitoring wells for the rock waste disposal site are presented on Map 2, Volume 3 of this M&RP. The monitoring plans were developed based on information presented in the PHC determinations, the baseline hydrologic data, and the geology chapter of this M&RP.

The monitoring programs provide data that are reviewed and compared to the baseline data. Any significant changes are evaluated to determine their impact on the hydrologic balance. These comparisons have taken the form of reports prepared by Hydrometrics early in the permit term (1978-1987). Results of these evaluations are submitted periodically to the UDOGM. The annual Water Quality Report submitted to the Division contains the monitoring data.

Baseline data collected for the Pines Tract area included performing field surveys to identify existing springs. Additionally, springs identified in the USGS publication "Hydrology and Effects of Mining in the Quitchupah and Pines -Coal Lease Tracts, Central Utah " (Thiros and Cordy, 1991) were searched for and, when found, included in the baseline survey. Those springs identified and found within the Pines Tract in the above referenced publication are labeled on Plate 7-3 with the prefix "GW - ". During the baseline surveys, several springs identified in the publication could not be found as illustrated on the document maps or by using the printed location descriptions. It is assumed the springs that could not be found have a) stopped flowing; b) were miss mapped; or c) were in close proximity to springs found during the baseline surveys but could not be positively identified as USGS located springs and were therefore given new number designations.

Baseline data collected for the Muddy Tract area is located in the "Coal Tract Evaluations on the Manti-La Sal National Forest" report prepared for the Manti-La Sal National Forest by Cirrus Ecological

Solutions, LC. Those springs identified and found within the Muddy Tract in the above referenced publication are labeled on Plate 7-3 with the prefix "M- ".

Sampling for the SUFCO Mine and adjacent areas is accomplished in accordance with the schedule outlined on Tables 7-2 through 7-5A. Sampling for the waste rock disposal site is

TABLE 7-2
Water Monitoring Program

Monitoring Wells	Protocol	Comments
US-80-2	A	Screened in Castlegate Sandstone
US-80-4	B	Screened in Castlegate Sandstone
89-20-2W	A	Screened in Castlegate Sandstone
US-79-13	B	Screened in Blackhawk Formation
US-81-4	A	Screened in Blackhawk Formation
89-18-1	A	Screened in Blackhawk Formation
89-20-1	A	Screened in Blackhawk Formation
01-8-1	A	Screened in Blackhawk Formation
Streams		
SUFCO 006	C,2	upper South Fork Quitchupah Creek
SUFCO 007	C,2	upper North Fork Quitchupah Creek
SUFCO 041	C,2	lower Quitchupah Creek
SUFCO 042	C,2	lower North Fork Quitchupah Creek
SUFCO 046	C,2	upper Quitchupah Creek
SUFCO 047A	C,2	lower East Spring Canyon Creek
SUFCO 090	C,1	upper Box Canyon Creek
Pines 106	C,2	upper East Fork Box Canyon
Pines 302	C,1	Muddy Creek-Last Water Creek Confluence
Pines 403	C,2	lower Box Canyon Creek
Pines 405	C,1	Muddy Creek - Box Creek Confluence
Pines 406b*	C,1	lower Muddy Creek
Pines 407	F,1	Box Canyon Creek
Pines 408	F,1	East Fork Box Canyon Creek
USFS-109	C,1	upper Main Fork of Box Canyon Creek
Link 001	C,2	Link Canyon Drainage
Link 002	C,2	Link Canyon Drainage
FP-1	G,6	East Fork of Main Fork of Box Canyon
FP-2	G,6	East Fork of East Fork of Box Canyon
M-STR4	C,1	Cowboy Creek

*Monitoring point Pines 406 was moved downstream to the USGS monitoring point in 1999 and renumbered as Pines 406b. The point is located in the NW1/4NE1/4, Sec. 21, T21S. R6E.

TABLE 7-2 (Continued)
Water Monitoring Program

Springs	Protocol	Comments
SUFCO 001	D,3	Blackhawk Formation
SUFCO 047	D,4	Star Point Sandstone
SUFCO 057A	D,3	North Horn Formation
SUFCO 089	E,3	Castlegate Sandstone
GW-13	D,3	North Horn Formation
GW-20	D,5	Castlegate Formation
GW-21	D,3	Castlegate Formation
Pines 100	D,4	Castlegate Formation
Pines 105	D,3	Castlegate Formation
Pines 206	D,5	Blackhawk Formation
Pines 209	D,5	Blackhawk Formation
Pines 212	D,5	Blackhawk Formation
Pines 214	D,5	Blackhawk Formation
Pines 218	D,3	Castlegate Formation
Pines 303	D,3	Blackhawk Formation
Link Portal-West	D,4	Link Canyon Portal
Link Portal-East	D,4	Link Canyon Portal
M-SP01	D,3	Price River Formation
M-SP02	D,3	Price River Formation
M-SP08	D,3	North Horn Formation
M-SP18	D,3	Price River Formation
M-SP39	D,3	Price River Formation
M-SP53	D,3	North Horn Formation

5-2D and 5-2E. Similar information for the Link Canyon Portal facility area is presented on Plate 5-2F.

Locations and elevations of each station to be used for water monitoring during coal mining and reclamation operations are presented on Plate 7-3.

The construction details and cross sections for the concrete sediment trap are located in the "Alternate #1 Drainage Facilities and Sediment Control Plan" (Appendix 7-8). The existing topography and cross sections for the main sedimentation pond are located on Plates 7-4 and 7-5. The design topography and cross sections for the waste rock disposal site sedimentation pond are located in Volume 3 of this M&RP.

Other Cross Sections and Maps. Other relevant cross sections or maps are presented and discussed in Chapter 5 of this M&RP.

7.3.1.8 Water Rights and Replacement

Ground and surface water rights do exist within the Sufco Mine permit area. Mitigation has been performed at stock pond locations where claims have been made that the available surface water has been impacted by subsidence. Mitigation at these locations has been performed by the placement of bentonite in the bottom of stock ponds and by hauling replacement water to the ponds for livestock use during summer months.

The Permittee will mitigate and replace the water supply of any land owner or adversely affected State appropriated water if such a water supply proves to be contaminated, diminished or interrupted as a result of mining operations. First, a determination will be made by the Division in accordance with R645-301-731.800 as to whether or not material damage has occurred. Then, in accordance with Regulation R645-301-525.510, the operator will correct any material damage resulting from subsidence caused to surface lands (which includes water rights), to the extent technologically and economically feasible. Negotiations will be held immediately with the impacted party to determine the appropriate mitigation activities. The restoration of water flows to impacted sources will be accomplished using the Best Technology Currently Available (BTCA). These activities may include, but not necessarily be limited to: piping or trucking water to the location of the loss; sealing surface

fractures to prevent further losses (i.e., stream floors on bed rock or in shallow alluvium), and; construction of a ground water well and the installation of pumps to restore flows. If the above efforts are not successful, then the operator will explore the transferring of water rights to the injured party in flow equal to the determined loss and/or monetary reimbursement for proven material damages.

The water supply in the East Fork of Box Canyon is of special concern to Sufco and the regulatory authorities. In an effort to protect the minimal surface flows in this area, an intense monitoring and mitigation plan will be implemented prior to full extraction mining taking place under the East Fork. If changes in the quantity and quality of the water in the East Fork are noted, the Division will be immediately notified. A determination of the amount of water, if any, that is lost due to mining activities will be made using surface and ground water flow and climatic data. If a loss of flow is confirmed, the loss will be addressed as described in the proceeding text of this section.

7.3.2 Sediment Control Measures

The existing sediment control measures within the permit area have been designed, constructed, and maintained to prevent additional contributions of sediment to streamflow or to runoff outside the permit area. In addition, they have been designed to meet applicable effluent limitations, and minimize erosion to the extent possible.

The structures to be used for the runoff-control plan for the permit area include disturbed and undisturbed area diversion channels, sedimentation ponds, containment berms, silt fences, and road diversions and culverts.

7.3.2.1 Siltation Structures

The siltation structures within the permit area consist of the sedimentation ponds described in Section 7.3.2.2.

CHAPTER 9

ALLUVIAL VALLEY FLOOR

All of the surface on the Quitchupah Lease is owned by the United States. The surface management agencies (USFS and BLM) have determined that no alluvial valley floors exist on the lease. Their finding is documented on page 6 in the Environmental Assessment for the Quitchupah Lease Tract included as Appendix 9-1.

All of the surface on the Pines Tract Lease is owned by the United States. Based on the above discussions, the Natural Resources Conservation Service Determination on the Pines Tract (located in Appendix 2-1), and the information provided in Chapters 2, 3, 6, and 7, alluvial valley floors are not present within the Pines Tract.

All of the surface on the SITLA Muddy Tract Lease is owned by the United States. Based on the above discussions, and the information provided in Chapters 2, 3, 6, and 7, alluvial valley floors are not present within the SITLA Muddy Tract.

APPENDIX 1-2

Lease Documents

GRANT: **Multiple**

UTAH STATE LEASE FOR COAL
ML 49443-OBA

THIS COAL MINING LEASE AND AGREEMENT (the "Lease") is entered into and executed in duplicate as of October 1, 2004 (the "Effective Date") by and between the STATE OF UTAH, acting by and through the SCHOOL AND INSTITUTIONAL TRUST LANDS ADMINISTRATION, 675 East 500 South, Suite 500, Salt Lake City, Utah 84102 ("Lessor"), and

ARK LAND COMPANY AND ARCH COAL INC.
CITYPLACE ONE, SUITE 300
ST. LOUIS, MO 63141

having a business address as shown above ("Lessee").

WITNESSETH:

That the State of Utah, as Lessor, in consideration of the rentals, royalties, and other financial consideration paid or required to be paid by Lessee, and the covenants of Lessee set forth below, does hereby GRANT AND LEASE to Lessee the exclusive right and privilege to explore for, drill for, mine, remove, transport, convey, cross-haul, commingle, and sell only the coal of the Upper Hiawatha Coal Zone within the Blackhawk Formation, located within the boundaries of the following-described tract of land (the "Leased Premises") located in Sevier County, State of Utah:

T21S, R5E, SLB&M
Sec. 4: Lots 1, 2, 3, 4, S½S½
Sec. 5: Lots 1, 2, 3, 4, S½S½
Sec. 7: Lots 2, 3, 4, S½NE¼, SE4
Sec. 8: All
Sec. 9: All

Containing 2,134.19 acres, more or less.

Together with the right and privilege to make use of the surface (but only to the extent owned by Lessor) and subsurface of the Leased Premises for uses incident to the mining of coal by Lessee on the Leased Premises or on other lands under the control of Lessee or mined in connection with operations on the Leased Premises, including, but not limited to, conveying, storing, loading, hauling, commingling, cross-hauling, and otherwise transporting coal; excavating; removing, stockpiling, depositing and redepositing of surface materials; and the subsidence, mitigation, restoration and reclamation of the surface.

This Coal Mining Lease and Agreement is subject to, and Lessee hereby agrees to and accepts, the following covenants, terms, and conditions:

1. LEASED MINERALS.

1.1 Coal. This mineral lease covers coal, which shall mean and include black or brownish-black solid fossil fuels that have been subjected to the natural processes of coalification, and which fall within the classification of coal by rank as anthracitic, bituminous, sub-bituminous, or lignitic, together with closely associated substances which include, but are not limited to other hydrocarbon substances physically contained within the same geologic strata as the coal. In the event that minerals other than coal are discovered during lease operations, Lessee shall promptly notify the Lessor.

1.2 Coalbed Methane. To the extent that Lessor owns gas, coalbed methane or coal seam gas (collectively "coalbed methane") within the Leased Premises, Lessee may remove, vent, flare or capture such coalbed methane from the coal strata being mined and any overlying formations if such removal is necessary for safety reasons in the reasonable discretion of Lessee. If Lessee captures or uses such coalbed methane, it shall pay Lessor royalties on the value of such coalbed methane at the prevailing state royalty rate for natural gas, unless such royalties are expressly waived by Lessor. In the event that Lessor does not own coalbed methane within the Leased Premises, Lessee must obtain the consent of the owner of such coalbed methane prior to removal or capture of such gas. Except as expressly granted herein, the right to extract gas, coalbed methane and coal seam gas is not granted by this Lease.

1.3 No Warranty of Title. Lessor claims title to the mineral estate covered by this Lease. Lessor does not warrant title nor represent that no one will dispute the title asserted by Lessor. It is expressly agreed that Lessor shall not be liable to Lessee for any alleged deficiency in title to the mineral estate, nor shall Lessee become entitled to any refund for any rentals, bonuses, or royalties paid under this Lease in the event of title failure.

1.4 Reversion of Leased Premises to United States. Pursuant to the May 8, 1998 "Agreement to Exchange Utah School Trust Lands Between the State of Utah and the United States of America", as ratified by Pub. L. No. 105-335, 112 Stat. 3139, ownership of the Leased Premises shall revert to the United States when thirty-four (34) million tons of coal have been produced from either or both the Leased Premises and the Muddy Coal Tract. Upon reversion, the United States shall succeed the State of Utah as Lessor.

2. RESERVATIONS TO LESSOR. Subject to the exclusive rights and privileges granted to Lessee under this Lease, and further provided that Lessor shall refrain from taking actions with respect to the Leased Premises that may unreasonably interfere with Lessee's operations, Lessor hereby excepts and reserves from the operation of this Lease the following rights and privileges (to the extent that Lessor has the right to grant such rights and privileges):

2.1 Rights-of-Way and Easements. Lessor reserves the right, following consultation with the Lessee, to establish rights-of-way and easements upon, through or over the Leased Premises, under terms and conditions that will not unreasonably interfere with operations under this Lease, for roads, pipelines, electric transmission lines, transportation and utility corridors, mineral access, and any other purpose deemed reasonably necessary by Lessor.

2.2 Other Mineral Leases. Lessor reserves the right to enter into mineral leases and agreements with third parties covering minerals other than coal, under terms and conditions that will not unreasonably interfere with operations under this Lease in accordance with Lessor's regulations, if any, governing multiple mineral development.

2.3 Use and Disposal of Surface. To the extent that Lessor owns the surface estate of the Leased Premises and subject to the rights granted to the Lessee pursuant to this Lease, Lessor reserves the right to use, lease, sell, or otherwise dispose of the surface estate or any part thereof. Lessor shall notify Lessee of any such sale, lease, or other disposition of the surface estate.

2.4 Previously Authorized Improvements. If authorized improvements have been placed upon the Leased Premises by a third party prior to the commencement of this Lease, Lessee shall allow the owner of such improvements to remove them within ninety (90) days after the Lease term commences. Nothing in this paragraph shall authorize Lessee to remove surface improvements where Lessor does not own the surface estate.

2.5 Rights Not Expressly Granted. Lessor further reserves all rights and privileges of every kind and nature, except as specifically granted in this Lease.

3. TERM OF LEASE; READJUSTMENT.

3.1 Primary Term. This Lease is granted for a "primary term" of ten (10) years commencing on the Effective Date and for a "secondary term" of an additional ten (10) years, subject to Lessee's compliance with the requirements of paragraph 3.3, Diligent Operations; Minimum Royalty.

3.2 Extension Beyond Secondary Term. Subject to Lessee's compliance with the other provisions of this Lease, this Lease shall remain in effect beyond the secondary term and for as long thereafter as coal is produced in commercial quantities from the Leased Premises, or from lands constituting either (i) a logical mining unit approved by the Bureau of Land Management containing the Leased Premises, or (ii) a mining unit, in which the recoverable coal reserves can be developed in an efficient, economical and orderly manner as a unit with due regard to the conservation of recoverable coal reserves. The second type of mining unit requires a determination by the Lessor that the criteria set forth in item (ii) have been satisfied. The satisfaction of either (i) or (ii) above shall mean that the Lease is contained within an "approved mining unit." For the purposes of this Lease, production of coal in commercial quantities shall mean production during each lease year

of at least one per cent (1%) of the recoverable coal reserves within the Leased Premises or within lands constituting an approved mining unit which includes the Leased Premises, as such recoverable coal reserves are determined by Lessor after consultation with Lessee, subject to adjustment from time to time based upon reasonable justification from the Lessee.

3.3 Diligent Operations; Minimum Royalty. In the absence of actual production in commercial quantities as set forth in paragraph 3.2, Extension Beyond Secondary Term, this Lease shall remain in effect beyond the primary term only if the Lessee is engaged in diligent operations, exploration, or development activity (which development activity shall include, but not be limited to, pursuit of required permits and approvals) which in Lessor's reasonable discretion is calculated to advance development or production of coal from the Leased Premises or lands constituting an approved mining unit which includes the Leased Premises, and Lessee pays an annual minimum royalty in advance on or before the anniversary date of the Effective Date. The minimum royalty shall be calculated by determining the production royalty that would be payable upon production of one per cent (1%) of the recoverable coal reserves within the Leased Premises, as such recoverable coal reserves are determined by Lessor after consultation with Lessee, subject to adjustment from time to time based upon reasonable justification from the Lessee. The unit value of the recoverable coal reserves for purposes of determining the minimum royalty shall be determined by Lessor using the methodology set forth in 43 Code of Federal Regulations 3483.4(c)(1)-(3) (1998). Minimum royalties paid by Lessee pursuant to this paragraph may be credited against production royalties accruing during the term of this Lease.

3.4 Expiration; Cessation of Production. This Lease may not be extended pursuant to paragraph 3.3, Diligent Operations; Minimum Royalty, beyond the end of the twentieth year after the Effective Date except by the actual production of coal in commercial quantities from the Leased Premises or from lands constituting an approved mining unit which includes the Leased Premises. After expiration of the secondary term, this Lease will expire of its own terms, without the necessity of any notice or action by Lessor, if Lessee ceases production of coal in commercial quantities for an entire lease year, unless the Lease is suspended pursuant to paragraph 16.3, Suspension.

3.5 Readjustment. At the end of the primary term and at the end of each period of ten (10) years thereafter, Lessor may readjust the terms and conditions of this Lease (including without limitation rental rates, minimum royalties, royalty rates and valuation methods, and provisions concerning reclamation). In the event that the State as Lessor makes such readjustment prior to reversion, it shall not apply terms and conditions more economically disadvantageous than corresponding federal regulations and lease terms unless, based upon written findings after consultation with Lessee, it determines that the individual term or condition imposing the economic disadvantage is necessary to serve the best interests of the beneficiaries of the subject trust lands. If within thirty (30) days after submission of the readjusted lease terms to the Lessee, the Lessee determines that any or all of the proposed readjusted terms and conditions are unacceptable, then Lessee shall so notify Lessor in writing and the parties shall attempt to resolve the objectionable term or condition. If the parties are unable to resolve the matter and agree upon

the readjusted terms and conditions submitted by Lessor at the end of such ten (10) year period, Lessee shall forfeit any right to the continued extension of this lease, and the lease shall automatically terminate, provided that nothing herein shall be deemed to preclude Lessee from appealing any readjustment by Lessor pursuant to applicable law

3.6 Relinquishment. Lessee may relinquish all or portions of this Lease at any time by filing a written notice of relinquishment with Lessor. Lessor may disapprove any relinquishment if Lessee has failed to pay all rentals, royalties, and other amounts due and owing to the Lessor, if the lease is otherwise not in good standing, or if relinquishment would in Lessor's reasonable determination cause waste of economically recoverable coal. Lessee may not relinquish parcels smaller than a quarter-quarter section or surveyed lot. Upon approval, relinquishment shall relieve the Lessee of all future rental obligations as to the relinquished lands effective as of the date of filing of the relinquishment, but shall not relieve Lessee from other obligations to the extent provided in paragraph 15.2, Effect of Termination.

4. BONUS BID. Lessee agrees to pay Lessor, an initial bonus bid in the sum of Four Million, Three Hundred and Twenty Thousand Dollars ($4,320,000.00) as partial consideration for Lessor's issuance of this Lease, payable in seven equal annual installments of $617,142.86 commencing on the Effective Date. The unpaid balance of the bonus bid shall not bear interest; provided, however, that if this Lease is relinquished or otherwise terminated prior to the payment in full of the bonus bid, or if Lessee fails to make any bonus bid payment when due, the entire unpaid balance of the bonus bid shall immediately become due without regard to such relinquishment or termination, and such balance shall thereafter bear interest as provided in paragraph 16.2, Interest. Lessor may require Lessee to submit a bond or other sufficient surety to secure Lessee's obligation to pay the unpaid balance of the bonus bid. The bonus bid may not be credited against any other bonus payments, annual rentals or royalties accruing under the lease.

5. RENTALS. Lessee agrees to pay Lessor an annual rental of three dollars ($3.00) for each acre and fractional part thereof within the Leased Premises. Lessee shall promptly pay annual rentals each year in advance on or before the anniversary date of the Effective Date. Lessee may not credit rentals against production royalties or against minimum royalties payable pursuant to paragraph 3.3, Diligent Operations; Minimum Royalty.

6. ROYALTIES.

6.1 Production Royalties. Lessee shall pay Lessor a production royalty of eight per cent (8%) of the value of all coal severed and removed from the Leased Premises. For all coal sold pursuant to an arm's-length contract, value shall be determined on the basis of the gross proceeds received by Lessee from the sale or disposition of such coal. Gross proceeds shall include all bonuses, allowances or other consideration of any nature received by Lessee for coal actually produced. For any coal that is sold or disposed of other than by an arms-length contract, or for coal that is used within the mine permit area containing the Leased Premises for generation of electricity or

for gasification, liquefaction, in situ processing, or other method of extracting energy from such coal, the value of such coal shall be determined by Lessor with reference to (in order of priority): (i) comparable arms-length contracts or other dispositions of like-quality coal produced in the same coal field; (ii) prices reported for that coal to a public utility commission; (iii) prices reported to other governmental agencies; or (iv) other relevant information.

6.2 Allowable Deductions. It is expressly understood and agreed that none of Lessee's mining or production costs, including but not limited to costs for materials, labor, overhead, distribution, transportation within the mine permit area prior to the point of sale, loading, crushing, sizing, screening, or general and administrative activities, may be deducted in computing Lessor's royalty. All such costs shall be entirely borne by Lessee and are anticipated by the rate of royalty set forth in this Lease. In the event that the point of sale for coal produced from this Lease is located outside the mine permit area boundary, Lessee may deduct the reasonable, actual costs of transportation of such coal from the mine permit area boundary to the point of sale from gross proceeds in computing Lessor's royalty; provided, however, that transportation deductions for coal transported by Lessee, Lessee's affiliates, or by non-arm's-length contract are subject to review and modification by Lessor. Lessee shall be allowed to deduct its actual, reasonable washing and treatment costs from gross proceeds in computing Lessor's royalty; provided, however, that, upon Lessor's request Lessee shall provide to Lessor appropriate justification to demonstrate that Lessee's costs are reasonable.

6.3 Reference to Federal Regulations. It is the intent of Lessor and Lessee that the calculation of the value of coal for royalty purposes be consistent with federal coal regulations governing the valuation of coal, except where this Lease expressly provides otherwise. In no event shall the value of coal used for calculation of royalties under this Lease be less than the value which would be obtained were federal royalty valuation regulations applied.

6.4 Royalty Payment. For all coal severed and removed from the Leased Premises that is used, sold, transported or otherwise disposed of during a particular month, Lessee shall pay royalties to Lessor on or before the end of the next succeeding month. Royalty payments shall be accompanied by a verified statement, in a form approved by Lessor, stating the amount of coal sold or otherwise disposed of, the gross proceeds accruing to Lessee, the calculation of allowable deductions, and any other information reasonably required by Lessor to verify production and disposition of the coal or coal products. In the event that Lessee uses or disposes of coal pursuant to a non-arm's-length contract, or uses coal for generation of electricity or for gasification, liquefaction, in situ processing, or other method of extracting energy from such coal, Lessee shall notify Lessor of such use or disposal on or before the end of the next succeeding month following such use or disposal, and shall pay royalties upon Lessee's good faith estimate of the value of such coal, subject to Lessor's right to determine the value of such coal pursuant to paragraph 6.1, Production Royalties. After reversion of the Leased Premises to the United States pursuant to paragraph 1.4, Reversion of Leased Premises to United States, Lessee shall report production and royalties monthly in accordance with applicable federal regulations.

6.5 Royalty Valuation After Reversion. After reversion of the Leased Premises to the United States, the Secretary of the Interior may establish the reasonable value of post-reversion production for royalty purposes in the same manner and by the same methods as the United States establishes value under coal leases issued by the United States.

6.6 Suspension, Waiver or Reduction of Rents or Royalties. Lessor, to the extent not prohibited by applicable law, is authorized to waive, suspend, or reduce the rental or minimum royalty, or reduce the royalty applicable with respect to the entire Lease, whenever in Lessor's judgment it is necessary to do so in order to promote development, or whenever in the Lessor's judgment the Lease cannot be successfully operated under the terms provided herein.

7. RECORDKEEPING; INSPECTION; AUDITS.

7.1 Registered Agent; Records. Lessee shall maintain a registered agent within the State of Utah to whom any and all notices may be sent by Lessor and upon whom process may be served. Lessee shall also maintain an office within the State of Utah containing originals or copies of all maps, engineering data, permitting materials, books, records or contracts (whether such documents are in paper or electronic form) generated by Lessee that pertain in any way to coal production, output and valuation; mine operations; coal sales and dispositions; transportation costs; and calculation of royalties from the Leased Premises. Lessee shall maintain such documents for at least seven years after the date of the coal production to which the documents pertain.

7.2 Inspection. Lessor's employees and authorized agents at Lessor's sole risk and expense shall have the right to enter the Leased Premises to check scales as to their accuracy, and to go on any part of the Leased Premises to examine, inspect, survey and take measurements for the purposes of verifying production amounts and proper lease operations. Upon reasonable notice to Lessee, Lessor's employees and authorized agents shall further have the right to audit, examine and copy (at Lessor's expense) all documents described in paragraph 7.1, Registered Agent; Records, whether such documents are located at the mine site or elsewhere. Lessee shall furnish all conveniences necessary for said inspection, survey, or examination; provided, however, that such inspections shall be conducted in a manner that is in conformance with all applicable mine safety regulations and does not unreasonably interfere with Lessee's operations.

7.3 Federal Inspections. Lessee agrees that, prior to reversion of the Leased Premises to the United States, employees and authorized agents of the Bureau of Land Management ("BLM") may conduct underground inspections of the Leased Premises, both independently and in cooperation with the State in its capacity as Lessor. After reversion, employees and authorized agents of BLM may conduct underground inspections of the Leased Premises under the authority of applicable federal laws and regulations.

7.4 Geologic Information. In the event Lessee conducts core-drilling operations or other geologic evaluation of the Leased Premises, Lessor may inspect core samples, evaluations thereof, and proprietary geologic information concerning the Leased Premises.

7.5 Confidentiality. Any and all documents and geologic data obtained by Lessor through the exercise of its rights as set forth in paragraphs 7.2, Inspection., and 7.4, Geologic Information., may be declared confidential information by Lessee, in which event Lessor and its authorized agents shall maintain such documents and geologic data as protected records under the Utah Governmental Records Access Management Act or other applicable privacy statute (including applicable federal law after reversion), and shall not disclose the same to any third party without the written consent of Lessee, the order of a court of competent jurisdiction requiring such disclosure, or upon termination of this Lease. Following reversion of the Leased Premises to the United States, the United States as Lessor shall treat such information as confidential to the extent permitted by federal law.

8. USE OF SURFACE ESTATE.

8.1 Lessor-Owned Surface. If Lessor owns the surface estate of all or some portion of the Leased Premises, by issuance of this Lease the Lessee has been granted the right to make use of such lands to the extent reasonably necessary and expedient for the economic operation of the leasehold. Lessee's right to surface use of Lessor-owned surface estate shall include the right to subside the surface. Such surface uses shall be exercised subject to the rights reserved to Lessor as provided in paragraph 2, RESERVATIONS TO LESSOR, and without unreasonable interference with the rights of any prior or subsequent lessee of Lessor.

8.2 Split-Estate Lands. If Lessor does not own the surface estate of any portion of the Leased Premises, Lessee's access to and use of the surface of such lands shall be determined by applicable law governing mineral development on split-estate lands, including without limitation applicable statutes governing access by mineral owners to split estate lands, and reclamation and bonding requirements. Lessee shall indemnify, defend and hold Lessor harmless for all claims, causes of action, damages, costs and expenses (including attorney's fees and costs) arising out of or related to damage caused by Lessee's operations to surface lands or improvements owned by third parties.

9. APPLICABLE LAWS AND REGULATIONS; HAZARDOUS SUBSTANCES

9.1 Trust Lands Statute and Regulations. This Lease is issued pursuant to the provisions of Title 53C, Utah Code Annotated, 1953, as amended, and Lessee is subject to and shall comply with all current and future rules and regulations adopted by the School and Institutional Trust Lands Administration and its successor agencies until reversion of the Leased Premises to the United States pursuant to paragraph 1.4, Reversion of Leased Premises to United States.

9.2 Regulation Upon Reversion. After reversion of the Leased Premises to the United States pursuant to paragraph 1.4, Reversion of Leased Premises to United States, Lessee will be subject to the requirements of the Mineral Leasing Act, 30 U.S.C. 181 *et seq.* (the "MLA"), and to the royalty, operating, and administrative procedure rules and regulations of the Department of Interior, the Minerals Management Service, and the Bureau of Land Management, and to any other federal laws and regulations generally applicable to coal leases issued under the MLA to the same extent as if the Lease were a federally-issued lease. Notwithstanding the foregoing, to the extent that the State, as Lessor, approves a significant operational decision prior to reversion, and Lessee makes a substantial economic commitment based upon that approval, Lessee may continue to rely upon that approval after reversion; provided, however, that no such approval shall act to limit the liability of Lessee, if any, under CERCLA, RCRA, the Clean Water Act, 33 U.S.C. 1251 *et seq* or other applicable environmental law. Upon reversion, nothing in this paragraph shall be deemed to require that the Leased Premises be included in the calculation of acreage held by Lessee for the purposes of the acreage limitation provisions of the MLA and associated regulations.

9.3 Other Applicable Laws and Regulations. Lessee shall comply with all applicable federal, state and local statutes, regulations, and ordinances, including without limitation the Utah Coal Mining and Reclamation Act, applicable statutes and regulations relating to mine safety and health, and applicable statutes, regulations and ordinances relating to public health, pollution control, management of hazardous substances and environmental protection.

9.4 Hazardous Substances. Lessee [or other occupant pursuant to any agreement authorizing mining] shall not keep on or about the premises any hazardous substances, as defined under 42 U.S.C. 9601(14) or any other Federal environmental law, any regulated substance contained in or released from any underground storage tank, as defined by the Resource Conservation and Recovery Act, 42 U.S.C. 6991, *et seq,* or any substances defined and regulated as "hazardous" by applicable State law, (hereinafter, for the purposes of this Lease, collectively referred to as "Hazardous Substances") unless such substances are reasonably necessary in Lessee's mining operations, and the use of such substances or tanks is noted and approved in the Lessee's mining plan, and unless Lessee fully complies with all Federal, State and local laws, regulations, statutes, and ordinances, now in existence or as subsequently enacted or amended, governing Hazardous Substances. Lessee shall immediately notify Lessor, the Bureau of Land Management, the surface management agency, and any other Federal, State and local agency with jurisdiction over the Leased Premises, or contamination thereon, of (i) all reportable spills or releases of any Hazardous Substance affecting the Leased Premises, (ii) all failures to comply with any applicable Federal, state or local law, regulation or ordinance governing Hazardous Substances, as now enacted or as subsequently enacted or amended, (iii) all inspections of the Leased Premises by, or any correspondence, order, citations, or notifications from any regulatory entity concerning Hazardous Substances affecting the Leased Premises, (iv) all regulatory orders or fines or all response or interim cleanup actions taken by or proposed to be taken by any government entity or private Party concerning the Leased Premises.

9.5 Hazardous Substances Indemnity. Lessee [or other occupant pursuant to any agreement authorizing mining] shall indemnify, defend, and hold harmless Lessor and the United States (as successor Lessor or owner pursuant to reversion or as owner of surface estate) its agencies, employees, officers, and agents with respect to any and all damages, costs, liabilities, fees (including attorneys' fees and costs), penalties (civil and criminal), and cleanup costs arising out of or in any way related to Lessee's use, disposal, transportation, generation, sale or location upon or affecting the Leased Premises of Hazardous Substances, as defined in paragraph 9.4 of this Lease. This indemnity shall extend to the actions of Lessee's employees, agents assigns, sublessees, contractors, subcontractors, licensees and invitees. Lessee shall further indemnify, defend and hold harmless Lessor and the United States from any and all damages, costs, liabilities, fees (including attorneys' fees and costs), penalties (civil and criminal), and cleanup costs arising out of or in any way related to any breach of the provisions of this Lease concerning Hazardous Substances. This indemnity is in addition to, and in no way limits, the general indemnity contained in paragraph 16.1 of this Lease.

9.6 Waste Certification. The Lessee shall provide upon abandonment, transfer of operation, assignment of rights, sealing-off of a mined area, and prior to lease relinquishment, certification to the Lessor and the Bureau of Land Management that, based upon a complete search of all the operator's records for the Lease, and upon its knowledge of past operations, there have been no reportable quantities of hazardous substances as defined in 40 Code of Federal Regulations 302.4, or used oil as defined in Utah Administrative Code R315-15, discharged (as defined at 33 U.S.C. 1321(a)(2)), deposited or released within the Leased Premises, either on the surface or underground, and that all remedial actions necessary have been taken to protect human health and the environment with respect to such substances. Lessee shall additionally provide to Lessor and the Bureau of Land Management a complete list of all hazardous substances, hazardous materials, and their respective Chemical Abstracts Service Registry Numbers, and oil and petroleum products used or stored on, or delivered to, the Leased Premises. Such disclosure will be in addition to any other disclosure required by law or agreement.

10. BONDING.

10.1 Lease Bond Required. At the time this Lease is executed, Lessee shall execute and file with the Lessor a good and sufficient bond(s) or other financial guarantee acceptable to Lessor in order to: (a) guarantee Lessee's performance of all covenants and obligations under this Lease, including Lessee's obligation to pay bonus bids, rentals and royalties; and (b) ensure compensation for damage, if any, to the surface estate and any surface improvements. The Lease Bond shall meet all federal mineral lease bond requirements as described in 43 Code of Federal Regulations Subpart 3474. The Lease Bond shall further provide that upon forfeiture after reversion of the Leased Premises to the United States, the Lease Bond shall be payable to the Secretary of the Interior.

10.2 Reclamation Bonding. The bond filed with the Utah Division of Oil, Gas and Mining ("UDOGM") in connection with the issuance of a mine permit which includes the Leased Premises shall be deemed to satisfy Lessor's bonding requirements with respect to Lessee's reclamation obligations under this Lease; provided, however, upon notice to Lessee and a public hearing with respect to the basis for its decision,

the Lessor may, in its reasonable discretion, determine that the bond filed with UDOGM is insufficient to protect Lessor's interests. In such an event the Lessor shall enter written findings as to the basis for its calculation of the perceived insufficiency and enter an order establishing the amount of additional bonding required. Lessee shall file any required additional bond with Lessor within thirty (30) days after demand by Lessor. Lessor may increase or decrease the amount of any additional bond from time to time in accordance with the same procedure.

10.3 Release of Additional Bond. Any additional bond required by Lessor pursuant to 10.2, Reclamation Bonding, may be released by Lessor at any time and shall be released no later than the time of final bond release by UDOGM with respect to the Leased Premises.

11. WATER RIGHTS.

11.1 Water Rights in Name of Lessor. If Lessee files to appropriate water for coal mining operations on the Leased Premises, the filing for such water right shall be made by Lessee in the name of Lessor at no cost to Lessor, and such water right shall become an appurtenance to the Leased Premises, subject to Lessee's right to use such water right at no cost during the term of this Lease.

11.2 Option to Purchase. If Lessee purchases or acquires an existing water right for coal mining operations on the Leased Premises, Lessor shall have the option to acquire that portion of such water right as was used on the Leased Premises upon expiration or termination of this Lease. The option price for such water right shall be the fair market value of the water right as of the date of expiration or termination of this Lease. Upon expiration or termination of this Lease, Lessee shall notify Lessor in writing of all water rights purchased or acquired by Lessee for coal mining operations on the Leased Premises and its estimate of the fair market value of such water right. Lessor shall then have forty-five (45) days to exercise its option to acquire the water by payment to Lessee of the estimated fair market value. If Lessor disagrees with Lessee's estimate of fair market value, Lessor shall notify Lessee of its disagreement within the 45 day option exercise period. The fair market value of the water right shall then be appraised by a single appraiser mutually acceptable to both parties, which appraisal shall be final and not subject to review or appeal. If the parties cannot agree upon the choice of an appraiser, the fair market value of the water right shall be determined by a court of competent jurisdiction. Conveyance of any water right pursuant to this paragraph shall be by quit claim deed.

11.3 Reversion. Upon reversion of the Leased Premises to the United States, the United States shall succeed to the interests of the State of Utah pursuant to this article 11.

12. ASSIGNMENT OR SUBLEASE; OVERRIDING ROYALTIES.

12.1 Consent Required. Lessee shall not assign or sublease this Lease in whole or in part, or otherwise assign or convey any rights or privileges granted by this Lease, including, without limitation, creation of overriding royalties or production payments, without the prior written consent of Lessor. Any assignment, sublease or other conveyance made without prior written consent of Lessor shall have no legal effect unless and until approved in writing by Lessor. Exercise of any right with respect to the Leased Premises in violation of this provision shall constitute a default under this Lease.

12.2 Binding Effect. All of the terms and provisions of this Lease shall be binding upon and shall inure to the benefit of their respective successors, assigns, and sublessees.

12.3 Limitation on Overriding Royalties. Lessor reserves the right to disapprove the creation of an overriding royalty or production payment that would, in Lessor's reasonable discretion, constitute an unreasonable economic burden upon operation of the Lease. In exercising its discretion to disapprove the creation of an overriding royalty, Lessor shall consult with Lessee and any third parties involved and shall prepare findings to evidence the basis of its decision. Cumulative overriding royalties of 2% or less shall be deemed presumptively reasonable unless special circumstances are shown by Lessor to exist.

13. OPERATIONS.

13.1 Permitting. Before Lessee commences exploration, drilling, or mining operations on the Leased Premises, it shall have obtained such permits and posted such bonds as may be required under applicable provisions of the Utah Coal Mining and Reclamation Act, the Surface Mining Control and Reclamation Act, and associated regulations, together with applicable regulations of the surface management agency. Lessee shall maintain any required permits in place for the duration of mining operations and reclamation. Upon request, Lessee shall provide Lessor with a copy of all regulatory filings relating to permitting matters.

13.2 Plan of Operations. Prior to the commencement of any underground mining operations on the Leased Premises, Lessee shall obtain Lessor's approval of a plan of operations for the Leased Premises. The plan of operations shall contain all information required to be contained in a federal Resource Recovery and Protection Plan, as described in 43 Code of Federal Regulations 3482.1(b) and (c) (1998). Lessor may modify the proposed plan of operations as is needed to insure that there is no waste of economically recoverable coal reserves contained on the Leased Premises. In this context "waste" shall mean the inefficient utilization of, or the excessive or improper loss of an otherwise economically recoverable coal resource. Lessor shall notify Lessee in writing of its approval or modifications of the plan of operations. The plan of operations submitted by Lessee shall be deemed approved by Lessor if Lessor has not otherwise notified Lessee within sixty (60) days of filing.

13.3 Plan of Operations - Modification. In the event that material changes are required to the plan of operations during the course of mining, Lessee shall submit a modification of the plan of operations to the Lessor. Routine adjustments to the plan of operations based upon geologic circumstances encountered during day-to-day mining operations do not require the submission of a modification. If the proposed changes require emergency action by Lessor, then the Lessee shall so notify the Lessor at the time of submission of the modification and the parties shall use their best efforts to meet the Lessee's time schedule regarding implementation of the changes. Non-emergency modifications will be reviewed promptly by Lessor to insure that there is no waste of economically recoverable coal reserves pursuant to the plan of operations, as modified, and Lessor shall notify lessee in writing of its approval or modification of the proposed modification. Prior to reversion, modifications shall be deemed approved by Lessor if Lessor has not otherwise notified Lessee within thirty (30) days of filing. After reversion, modifications shall be approved in accordance with applicable federal regulations.

13.4 Mine Maps. Lessee shall maintain at the mine office clear, accurate, and detailed maps of all actual and planned operations prepared and maintained in the manner prescribed by 43 Code of Federal Regulations 3482.3 (1998). Lessee shall provide copies of such maps to Lessor upon request.

13.5 Good Mining Practices. Lessee shall conduct exploration and mining operations on the Leased Premises in accordance with standard industry operating practices, and shall avoid waste of economically recoverable coal. Lessee shall comply with all regulations and directives of the Mine Safety and Health Administration or successor agencies for the health and safety of employees and workers. Lessee shall further comply with the performance standards for underground resource recovery set forth at 43 Code of Federal Regulations 3484.1(c) (1998); provided, however, that Lessor may waive such standards from time to time in its reasonable discretion, upon request by Lessee. Coal shall be mined from this Lease by underground methods only.

13.6 Mining Units. Lessor may approve the inclusion of the Leased Premises in a mining unit with federal, private or other non-state lands upon terms and conditions that it deems necessary to protect the interests of the Lessor, including without limitation segregation of production, accounting for commingled coal production, and minimum production requirements or minimum royalties for the Leased Premises.

14. EQUIPMENT; RESTORATION.

14.1 Equipment. Upon termination of this Lease, Lessee shall remove, and shall have the right to remove, all improvements, equipment, stockpiles, and dumps from the Leased Premises within six (6) months; provided, however, that Lessor may, at Lessor's sole risk and expense, and subject to Lessee's compliance with requirements imposed by UDOGM and MSHA, require Lessee to retain in place underground timbering supports, shaft linings, rails, and other installations reasonably necessary for future mining of the Leased Premises. All improvements and equipment remaining on the Leased Premises after six (6) months may be deemed forfeited to Lessor upon written notice of such forfeiture to Lessee. Lessee may abandon underground improvements, equipment of any type, stockpiles and dumps in place if such abandonment is in compliance with applicable law, and further provided that Lessee provides Lessor with financial or other assurances sufficient in Lessor's reasonable discretion to protect Lessor from future environmental liability with respect to such abandonment or any associated hazardous waste spills or releases. Lessee shall identify and locate on the mine map the location of all equipment abandoned on the Lease Premises.

14.2 Restoration and Reclamation. Upon termination of this Lease, Lessee shall reclaim the Leased Premises in accordance with the requirements of applicable law, including mine permits and reclamation plans on file with UDOGM. Lessee shall further abate any hazardous condition on or associated with the Leased Premises. Lessee and representatives of all governmental agencies having jurisdiction shall have the right to re-enter the Leased Premises for reclamation purposes for a reasonable period after termination of the Lease.

15. DEFAULT

15.1 Notice of Default; Termination. Upon Lessee's violation of or failure to comply with any of the terms, conditions or covenants set forth in this Lease, Lessor shall notify Lessee of such default by registered or certified mail, return receipt requested, at the last address for Lessee set forth in Lessor's files. Lessee shall then have thirty (30) days, or such longer period as may be granted in writing by Lessor, to either cure the default or request a hearing pursuant to the Lessor's administrative adjudication rules. In the

event Lessee fails to cure the default or request a hearing within the specified time period, Lessor may cancel this Lease without further notice to or appeal by Lessee.

15.2 Effect of Termination. The termination of this Lease for any reason, whether through expiration, cancellation or relinquishment, shall not limit the rights of the Lessor to recover any royalties and/or damages for which Lessee may be liable, to recover on any bond on file, or to seek injunctive relief to enjoin continuing violations of the Lease terms. No remedy or election under this Lease shall be deemed exclusive, but shall, wherever possible, be cumulative with all other remedies available under this Lease, at law, or in equity. Lessee shall surrender the Leased Premises upon termination; however, the obligations of Lessee with respect to reclamation, indemnification and other continuing covenants imposed by this Lease shall survive the termination.

16. MISCELLANEOUS PROVISIONS.

16.1 Indemnity. Except as limited by paragraph 7.2, Inspection, Lessee shall indemnify and hold Lessor and the United States (as successor Lessor or owner pursuant to reversion or as owner of surface estate) harmless for, from and against each and every claim, demand, liability, loss, cost, damage and expense, including, without limitation, attorneys' fees and court costs, arising in any way out of Lessee's occupation and use of the Leased Premises, including without limitation claims for death, personal injury, property damage, and unpaid wages and benefits. Lessee further agrees to indemnify and hold Lessor harmless for, from and against all claims, demands, liabilities, damages and penalties arising out of any failure of Lessee to comply with any of Lessee's obligations under this Lease, including without limitation attorneys' fees and court costs.

16.2 Interest. Except as set forth in paragraph 4, BONUS BID, interest shall accrue and be payable on all obligations arising under this Lease at such rate as may be set from time to time by rule enacted by Lessor. Interest shall accrue and be payable, without necessity of demand, from the date each such obligation shall arise.

16.3 Suspension. In the event that Lessor in its reasonable discretion determines that suspension is necessary in the interests of conservation of the coal resource, or if Lessee has been prevented from performing any of its obligations or responsibilities under this Lease or from conducting mining operations by labor strikes, fires, floods, explosions, riots, any unusual mining casualties or conditions, Acts of God, government restrictions or orders, severe weather conditions, or other extraordinary events beyond its control, then the time for performance of this Lease by Lessee shall be suspended during the continuance of such acts which prevent performance, excepting any payments due and owing to Lessor.

16.4 Consent to Suit; Jurisdiction. Prior to reversion of the Leased Premises to the United States: (i) this Lease shall be governed by the laws of the State of Utah; (ii) Lessor and Lessee agree that all disputes arising out of this Lease shall be litigated only in the Third Judicial District Court for Salt Lake County, Utah; (iii) Lessee consents to the jurisdiction of such court; and (iv) Lessee shall not bring any action against Lessor without exhaustion of available administrative remedies and compliance with applicable requirements of the Utah Governmental Immunity Act. Notwithstanding the foregoing, after reversion of the Leased Premises to the United States, any litigation between the United States as Lessor and the Lessee shall be governed by the laws of the United States otherwise applicable to federal coal leases.

16.5 No Waiver. No waiver of the breach of any provision of this Lease shall be construed as a waiver of any preceding or succeeding breach of the same or any other provision of this Lease, nor shall the acceptance of rentals or royalties by Lessor during any period of time in which Lessee is in default be deemed to be a waiver of such default.

16.6 Severability. The invalidity of any provision of this Lease, as determined by a court of competent jurisdiction, shall in no way affect the validity of any other provision hereof.

16.7 Special Stipulations. The special stipulations set forth in Exhibit "A" to this Lease are hereby incorporated into and made an integral part of this Lease.

16.8 Entire Lease. This Lease, together with any attached stipulations, sets forth the entire agreement between Lessor and Lessee with respect to the subject matter of this Lease. No subsequent alteration or amendment to this Lease shall be binding upon Lessor and Lessee unless in writing and signed by each of them.

IN WITNESS WHEREOF, the parties have executed this Lease as of the date hereinabove first written.

APPROVED AS TO FORM:
MARK SHURTLEFF
ATTORNEY GENERAL

By_____

THE STATE OF UTAH, acting by and through the SCHOOL AND INSTITUTIONAL TRUST LANDS ADMINISTRATION, LESSOR
KEVIN S. CARTER, DIRECTOR

By_____

ARK LAND COMPANY

By: _____

Its: President

ARCH COAL ~~COMPANY~~ INC.

By: _____

Its: Vice President

EXHIBIT A

SPECIAL STIPULATIONS pursuant to 1) Section 10 of the Utah Schools and Land Exchange Act of 1998, Pub. L. No. 105-335, 112 Stat. 3139, which ratified the May 8, 1998 "Agreement to Exchange Utah School Trust Lands Between the State of Utah and the United States of America" entered into between the State of Utah and the United States of America ("the Agreement"); and 2) the 1999 "Memorandum of Understanding Between the Utah School and Institutional Trust Lands Administration, The United States Department of Agriculture, and the United States Department of the Interior" entered into between the parties to facilitate the implementation of the Agreement:

Section 10 of the Agreement calls for the development of any mineral interests transferred to the State of Utah where the United States retains ownership interests in the land to be subject to all laws, rules, and regulations applicable to such development within the National Forest System. The Regulations of the Secretary of Agriculture at Title 36, Code of Federal Regulations ("C.F.R."), section 251.50 will apply to the occupancy of the surface estate of National Forest System lands for the development of the conveyed coal estate. However, mining induced subsidence need not be permitted separately where the State of Utah has authorized mining in accordance with 30 C.F.R. section 994.30, Article VI, B.5. To the extent provided by law, in surface occupancy permits and conditions of concurrence to mining permits, the USDA-Forest Service will abide by the standards and quidelines contained in the Land and Resource Management Plan for the Manti-La Sal National Forest which were in effect on May 8, 1998. Subject to reasonable terms and conditions for the protection of the surface estate consistent with the Forest Plan, any permit requirement may not prohibit reasonable economic development of the conveyed coal estate.

STATE OF UTAH)
: ss.
COUNTY OF SALT LAKE)

On the 18th day of Oct 2004, personally appeared before me THOMAS B FADDIES who being by me duly sworn did say that he is the ASSISTANT DIRECTOR/MINERALS of the School and Institutional Trust Lands Administration of the State of Utah and the signer of the above instrument, who duly acknowledged that he executed the same.

Given under my hand and seal this 18th day of Oct, 2004.

Becky Pritchett
Notary Public
Residing at: SLC UT

BECKY PRITCHETT
NOTARY PUBLIC • STATE OF UTAH
675 EAST 500 SOUTH, SUITE 500
SALT LAKE CITY, UT 84102
COMM. EXP. 9-04-06

My commission expires:

STATE OF ~~UTAH~~ MISSOURI)
: ss.
COUNTY OF ~~SALT LAKE~~ ST. LOUIS)

On the 11th day of OCTOBER, 2004, STEVEN E. McCOY, personally appeared before me AS PRESIDENT, who being duly sworn did say that he is an officer of _____ARK LAND COMPANY and that said instrument was signed in behalf of said corporation by resolution of its Board of Directors, and said that HE acknowledged to me that said corporation executed the same.

Given under my hand and seal this 11th day of OCTOBER, 2004.

Notary Public Notary Seal State of Missouri
MARY C. HAMILTON
St. Louis City
My Commission Expires
September 14, 2007

Mary C. Hamilton
Notary Public
Residing at: ST. LOUIS, MISSOURI

My commission expires: SEPTEMBER 14, 2007

STATE OF ~~UTAH~~ MISSOURI)
: ss.
COUNTY OF ~~SALT LAKE~~ ST. LOUIS)

On the 11th day of OCTOBER, 2004, DAVID B. DEUGH, personally appeared before me AS VICE PRES, who being duly sworn did say that he is an officer of _____ARCH COAL COMPANY and that said instrument was signed in behalf of said corporation by resolution of its Board of Directors, and said that HE acknowledged to me that said corporation executed the same.

Given under my hand and seal this 11th day of OCTOBER, 2004.

Notary Public Notary Seal State of Missouri
MARY C. HAMILTON
St. Louis City
My Commission Expires
September 14, 2007

Mary C. Hamilton
Notary Public
Residing at: St Louis, Missouri

My commission expires:
September 14, 2007

APPENDIX 2-10

Muddy Tract Soil Types

7 Shupert - Winetti families, 2 - 8% slopes

Acres: 1557

Number of Delineations: 11

Mapping Areas: EC ET CG

Named Components / Taxonomic Classification:
Shupert: Fine-loamy, mixed, superactive, calcareous, frigid Typic Ustifluvents
Winetti: Loamy-skeletal, mixed, superactive, calcareous, frigid Typic Ustifluvents

Component Percentage:
Shupert: 50%
Winetti: 40%

Mapping Unit / Component Slope:
All: 2 - 8%

Mapping Unit / Component Aspect:
All aspects

Mapping Unit / Component Elevation:
Dominantly 6400 - 7800'

Mapping Unit / Component Landform / Parent Material:
Low stream terraces and floodplains in alluvium from Mesa Verde group.

Mapping Unit / Component Vegetation:
Tree-dominated riparian, perennial grass.

Component Depth Class:
All: very deep

Mapping Unit Position / Associations:
Mapping unit 7 occurs on flood plains and low stream terraces along major drainages at lower elevations. This unit is associated with unit 26 in the Joes Valley area, with unit 26 occurring on a coalesced alluvial fan terrace immediately above unit 7. In the eastern canyons, unit 7 is associated with unit 27, occurring on a pediment terrace over the Mancos formation, and with unit 26T, on a stream terrace immediately above unit 7 along major drainages.

Component Moisture / Temperature Regime:
All: Ustic, frigid

20 Strych - Pathead - Wiggler families, 30 - 80% slopes

Acres: 9982

Number of Delineations: 53

Mapping Areas: EC ET CG

Named Components / Taxonomic Classification:
Strych: Loamy-skeletal, mixed, superactive, mesic Ustic Haplocalcids
Pathead: Loamy-skeletal, mixed, superactive, frigid Typic Haplustepts
Wiggler: Loamy, mixed, superactive, calcareous, frigid, shallow Typic Ustorthents

Component Percentage:
Strych: 45%
Pathead: 25%
Wiggler: 20%

Mapping Unit / Component Slope:
Strych, Pathead: 30 - 70%
Wiggler: 30 - 80%

Mapping Unit / Component Aspect:
All but N aspects

Mapping Unit / Component Elevation:
Dominantly 7200 - 9400'

Mapping Unit / Component Landform / Parent Material:
Steep slopes on Mesa Verde group.

Mapping Unit / Component Vegetation:
Mountain mahogany, with mountain brush, pinyon-juniper, and sparse Douglas fir

Component Depth Class:
Strych: deep
Pathead: moderately deep
Wiggler: shallow over weathered bedrock

Mapping Unit Position / Associations:
Mapping unit 20 occurs on steep slopes on the Mesa Verde group, with dominantly south and west aspects. It is a warm, dry unit that occurs in association with units 20A and 20X. Unit 20A is warmer and drier than unit 20, and typically occurs in lower positions. Unit 20X occurs on the steepest slopes and breaks, in a similar position to unit 20A.

Component Moisture / Temperature Regime:
Strych: Ustic, mesic
Pathead: Ustic, frigid
Wiggler: Ustic, frigid

20A Andok - Strych - Wiggler families, 30 - 80% slopes

Acres: 28077

Number of Delineations: 55

Mapping Areas: EC ET CG

Named Components / Taxonomic Classification:
Andok: Loamy-skeletal, mixed, active, mesic Typic Haplustepts
Strych: Loamy-skeletal, mixed, superactive, mesic Ustic Haplocalcids
Wiggler: Loamy, mixed, superactive, calcareous, frigid, shallow Typic Ustorthents

Component Percentage:
Andok: 35%
Strych: 30%
Wiggler: 20%

Mapping Unit / Component Slope:
All: 30 - 80%

Mapping Unit / Component Aspect:
All but N aspects

Mapping Unit / Component Elevation:
Dominantly 6700 - 8900'

Mapping Unit / Component Landform / Parent Material:
Steep slopes on Mesa Verde group

Mapping Unit / Component Vegetation:
Pinyon-juniper, with other mountain brush.

Component Depth Class:
Andok, Strych: deep
Wiggler: shallow over weathered bedrock

Mapping Unit Position / Associations:
Mapping unit 20A occurs on steep slopes on the Mesa Verde group, with dominantly south and west aspects. It is a hot, dry unit that occurs in association with units 20 and 20X. Unit 20 is cooler and moister than unit 20, and typically occurs in higher positions. Unit 20X occurs on the steepest slopes and breaks, in a similar position to unit 20A.

Component Moisture / Temperature Regime:
Andok, Strych: Ustic, mesic
Wiggler: Ustic, frigid

20X Andok - Welring families - Rock Outcrop, 50 - 100% slopes

Acres: 7264

Number of Delineations: 11

Mapping Areas: ET

Named Components / Taxonomic Classification:
Andok: Loamy-skeletal, mixed, active, mesic Typic Haplustepts
Welring: Loamy-skeletal, carbonatic, mesic Lithic Ustorthents

Component Percentage:
Andok: 40%
Welring: 25%
Rock Outcrop: 20%

Mapping Unit / Component Slope:
Andok, Welring: 50 - 80%
Rock Outcrop: 50 - 100%

Mapping Unit / Component Aspect:
All aspects, dominantly E.

Mapping Unit / Component Elevation:
6700 - 8700'

Mapping Unit / Component Landform / Parent Material:
Very steep slopes and scarps on Mesa Verde formation.

Mapping Unit / Component Vegetation:
Perennial grass / forbs, pinyon, scattered Douglas fir.

Component Depth Class:
Andok: moderately deep to deep
Welring: shallow

Mapping Unit Position / Associations:
Mapping unit 20X occurs on very steep slopes and breaks along the eastern scarp of the Mesa Verde group, with dominantly east and south aspects. It is a hot, dry unit that occurs in association with units 20A and 20. Units 20 and 20A are less steep and more stable than unit 20X; in addition, unit 20 is cooler and moister than unit 20X, and typically occurs in higher positions.

Component Moisture / Temperature Regime:
All: Ustic, mesic

24 Rabbitex - Repp families, 5 - 30% slopes

Acres: 21932

Number of Delineations: 62

Mapping Areas: CG EP SB

Named Components / Taxonomic Classification:
Rabbitex: Fine-loamy, mixed, superactive, frigid Aridic Calciustolls
Repp: Loamy-skeletal, mixed, superactive, frigid Typic Haplustepts

Component Percentage:
Rabbitex: 45%
Repp: 35%

Mapping Unit / Component Slope:
All: 5 - 30%

Mapping Unit / Component Aspect:
All aspects

Mapping Unit / Component Elevation:
Dominantly 7500 - 9200'

Mapping Unit / Component Landform / Parent Material:
Pediment terrace on North Horn formation.

Mapping Unit / Component Vegetation:
Mountain big sage, perennial grass, black sage, mountain brush

Component Depth Class:
All: very deep

Mapping Unit Position / Associations:
Mapping unit 24 occurs on pediment terraces on the lower North Horn formation, the lowest of which is just above and grading to the Price River Tablelands. It is associated with units 24S, 24A, 110, 600, and 640. Unit 24S occurs in the same position as unit 24, only in eroded areas. Unit 24A occurs immediately below unit 24, on an eroded surface of the Price River Tablelands. Unit 110 occurs between and above the unit 24 pediment terraces, on steeply sloping breaks. Units 600 and 640 occur above or around unit 24, on mass wasting deposits.

Component Moisture / Temperature Regime:
All: Ustic, frigid

24A Whetrock - Detra families, 5 - 30% slopes

Acres: 13079

Number of Delineations: 33

Mapping Areas: ET

Named Components / Taxonomic Classification:
Whetrock: Loamy-skeletal, mixed, superactive, frigid Aridic Calciustolls
Detra: Fine-loamy, mixed, superactive, frigid Pachic Argiustolls

Component Percentage:
Whetrock: 50%
Detra: 30%

Mapping Unit / Component Slope:
All: 5 - 30%

Mapping Unit / Component Aspect:
All aspects

Mapping Unit / Component Elevation:
7800 - 9100'

Mapping Unit / Component Landform / Parent Material:
Eroded surface immediately below North Horn pediment terrace of mapping unit 24 and Price River tablelands of 35.

Mapping Unit / Component Vegetation:
Mountain big sage, black sage, perennial grass, mountain brush.

Component Depth Class:
Whetrock: moderately deep
Detra: deep

Mapping Unit Position / Associations:
Mapping unit 24A occurs on an eroded surface of the Price River Tablelands, in association with units 24, 24S, and 35. Units 24 and 24A occur on the North Horn pediment terrace immediately above unit 24A, and unit 35 occurs on the stable, less sloping Price River Tablelands immediately below unit 24A.

Component Moisture / Temperature Regime:
All: Ustic, frigid

26 Mara - Rabbitex families, 5 - 20% slopes

Acres: 4226

Number of Delineations: 15

Mapping Areas: CG ET

Named Components / Taxonomic Classification:
Mara: Fine-loamy, mixed, superactive, frigid Typic Haplustepts
Rabbitex: Fine-loamy, mixed, superactive, frigid Aridic Calciustolls

Component Percentage:
Mara: 50%
Rabbitex: 30%

Mapping Unit / Component Slope:
All: 5 - 20%

Mapping Unit / Component Aspect:
All aspects

Mapping Unit / Component Elevation:
7000 - 8400'

Mapping Unit / Component Landform / Parent Material:
Coalesced alluvial fan-terrace in central Joes Valley basin, in alluvium derived from North Horn, Flagstaff formations.

Mapping Unit / Component Vegetation:
Mountain big sage, black sage, perennial grass

Component Depth Class:
All: very deep

Mapping Unit Position / Associations:
Mapping unit 26 occurs on a coalesced alluvial fan terrace, predominantly in the Joes Valley area. It is associated with units 23 and 23B, with these units occurring on a higher fan terrace above unit 26.

Component Moisture / Temperature Regime:
All: Ustic, frigid

Notes:
This unit occurs on a lower, less-sloping fan terrace immediately below the 23 / 23B fan terrace, in the central Joes Valley basin.

35 Detra family, 3 - 15% slopes

Acres: 16414

Number of Delineations: 29

Mapping Areas: ET

Named Components / Taxonomic Classification:
Detra: Fine-loamy, mixed, superactive, frigid Pachic Argiustolls

Component Percentage:
Detra: 85%

Mapping Unit / Component Slope:
Detra: 3 - 15%

Mapping Unit / Component Aspect:
All aspects

Mapping Unit / Component Elevation:
7000 - 8900'

Mapping Unit / Component Landform / Parent Material:
Price River tablelands.

Mapping Unit / Component Vegetation:
Mountain big sage, black sage

Component Depth Class:
Detra: deep

Mapping Unit Position / Associations:
Mapping unit 35 occurs on the stable, flat surface of the Price River Tablelands. It is associated with unit 57, on the same position only under ponderosa pine, and with unit 24A, on a moderately sloping eroded surface of the Price River Tablelands above unit 35.

Component Moisture / Temperature Regime:
Detra: Ustic, frigid

57 Falcon family - Rock Outcrop, 2 - 10% slopes

Acres: 6074

Number of Delineations: 13

Mapping Areas: ET

Named Components / Taxonomic Classification:
Falcon: Loamy, mixed, superactive, frigid Lithic Haplustolls

Component Percentage:
Falcon: 90%

Mapping Unit / Component Slope:
Falcon: 2 - 10%

Mapping Unit / Component Aspect:
Falcon: All aspects

Mapping Unit / Component Elevation:
8300 - 8900'

Mapping Unit / Component Landform / Parent Material:
Price River tablelands.

Mapping Unit / Component Vegetation:
Ponderosa pine, with mountain mahogany, mountain big sage.

Component Depth Class:
Falcon: shallow

Mapping Unit Position / Associations:
Mapping unit 57 occurs on the stable, flat surface of the Price River Tablelands under ponderosa pine. It is associated with unit 35, on the same position only under black sagebrush and mountain big sagebrush.

Component Moisture / Temperature Regime:
Falcon: Ustic, frigid

107 712 Bundo - Scout - Uinta families, 30 - 70% slopes

Acres: 15307

Number of Delineations: 71

Mapping Areas: EC, ET

Named Components / Taxonomic Classification:
Bundo: Loamy-skeletal, mixed, superactive Ustic Palecryalfs
Scout: Loamy-skeletal, mixed, superactive Ustic Eutrocryepts
Uinta: Fine-loamy, mixed, superactive Eutric Glossocryalfs

Component Percentage:
Bundo: 35%
Scout: 30%
Uinta: 20%

Mapping Unit / Component Slope:
All: 30 - 70%

Mapping Unit / Component Aspect:
North aspects

Mapping Unit / Component Elevation:
Dominantly 7500 - 9700'

Mapping Unit / Component Landform / Parent Material:
Steep north slopes on Mesa Verde group.

Mapping Unit / Component Vegetation:
Douglas fir, with scattered aspen pockets.

Component Depth Class:
All: very deep

Mapping Unit Position / Associations:
Mapping unit 107 occurs on steep north slopes on the Mesa Verde group under Douglas fir. It is associated with units 100C and 711, both of which occur on north aspects in similar positions, unit 100C being under mountain brush and perennial grass, and unit 711 under mixed aspen and conifer.

Component Moisture / Temperature Regime:
All: Ustic, cryic

107A Circleville - Scout - Panguitch families, 40 - 80% slopes

Acres: 6141

Number of Delineations: 45

Mapping Areas: ET

Named Components / Taxonomic Classification:
Circleville: Loamy-skeletal, mixed, frigid Calcidic Argiustolls
Scout: Loamy-skeletal, mixed, superactive Ustic Eutrocryepts
Panguitch: Coarse-loamy, mixed, superactive, frigid Typic Argiustolls

Component Percentage:
Circleville: 40%
Scout: 30%
Panguitch: 20%

Mapping Unit / Component Slope:
All: 40 - 80%

Mapping Unit / Component Aspect:
North aspects

Mapping Unit / Component Elevation:
Dominantly 6900 - 9000'

Mapping Unit / Component Landform / Parent Material:
Steep north slopes on Mesa Verde group

Mapping Unit / Component Vegetation:
Open stands Douglas fir, w/ pinyon pine.

Component Depth Class:
Circleville: moderately deep
Scout, Panguitch: deep to very deep

Mapping Unit Position / Associations:
Mapping unit 107A occurs on steep north slopes on the Mesa Verde group at lower elevations, under Douglas fir and pinyon pine. It is associated with units 20A and 20, which occur on drier sites on non-north aspects under pinyon-juniper and mountain mahogany.

Component Moisture / Temperature Regime:
Circleville, Panguitch: Ustic, frigid
Scout: Ustic, cryic

110 Castino - Elwood families, 20 - 50% slopes

Acres: 2984

Number of Delineations: 32

Mapping Areas: Dominantly CG, SB; also in NP, NB, EP

Named Components / Taxonomic Classification:
Castino: Clayey-skeletal, smectitic, Pachic Argicryolls
Elwood: Loamy-skeletal, mixed, superactive Typic Argicryolls

Component Percentage:
Castino: 50%
Elwood: 30%

Mapping Unit / Component Slope:
All: 20 - 50%

Mapping Unit / Component Aspect:
All but N aspects.

Mapping Unit / Component Elevation:
Dominantly 8300 - 8900'

Mapping Unit / Component Landform / Parent Material:
Steep slopes on North Horn uplands.

Mapping Unit / Component Vegetation:
High mountain brush, mountain big sage.

Component Depth Class:
All: moderately deep to deep.

Mapping Unit Position / Associations:
Mapping unit 110 occurs on steep North Horn slopes and breaks on all but north aspects. It is associated with units 561 and 411, on rolling to moderately sloping North Horn uplands under aspen and mountain big sagebrush, respectively, and unit 24, on North Horn pediment terraces.

Component Moisture / Temperature Regime:
All: Ustic, cryic

600 Faim - Clayburn - Castino families, 5 - 30% slopes

Acres: 55374

Number of Delineations: 25

Mapping Areas: SB WM

Named Components / Taxonomic Classification:
Faim: Fine, smectitic, Pachic Argicryolls
Clayburn: Fine-loamy, mixed, superactive, Pachic Argicryolls
Castino: Clayey-skeletal, smectitic, Pachic Argicryolls

Component Percentage:
Faim: 45%
Clayburn: 25%
Castino: 20%

Mapping Unit / Component Slope:
All: 5 - 30%

Mapping Unit / Component Aspect:
All aspects

Mapping Unit / Component Elevation:
Dominantly 7700 - 10000'

Mapping Unit / Component Landform / Parent Material:
Rolling, hummocky depositional surfaces derived from North Horn formation, including mass wasting deposits.

Mapping Unit / Component Vegetation:
Dominantly aspen, with high mountain brush, scattered conifer

Component Depth Class:
All: very deep

Mapping Unit Position / Associations:
Mapping unit 600 occurs on rolling, often hummocky depositional surfaces derived from the North Horn formation and mass wasting deposits, in the Southern Benches and Western Monocline areas. It is associated with units 600 and 602, with unit 602 occurring on finer textured materials, and unit 640 occurring on unstable areas of active transport.

Component Moisture / Temperature Regime:
All: Ustic, cryic

640 600E Iyers - Kildor families, 10 - 40% slopes

Acres: 13641

Number of Delineations: 19

Mapping Areas: SB WM

Named Components / Taxonomic Classification:
Iyers: Fine, smectitic Ustic Eutrocryepts
Kildor: Fine, smectitic Ustic Haplocryolls

Component Percentage:
Iyers: 50%
Kildor: 35%

Mapping Unit / Component Slope:
All: 10 - 40%

Mapping Unit / Component Aspect:
All aspects

Mapping Unit / Component Elevation:
Dominantly 7400 - 9700'

Mapping Unit / Component Landform / Parent Material:
Rolling, hummocky depositional surfaces derived from North Horn formation, including mass wasting deposits.

Mapping Unit / Component Vegetation:
Mountain big sage, mountain brush, black sage, perennial forbs, scattered aspen

Component Depth Class:
All: very deep

Mapping Unit Position / Associations:
Mapping unit 640 occurs on unstable, active transport surfaces on mass wasting deposits derived from the North Horn formation, in the Southern Benches and Western Monocline areas. It is associated with units 600 and 602, on more stable depositional surfaces, and unit 24, on North Horn pediment terraces, typically in a lower position than unit 640.

Component Moisture / Temperature Regime:
All: Ustic, cryic

Notes:
This unit is mapped on the unstable areas of the mass wasting deposits, and includes many areas of blowouts, slumping, and active soil movement.

715A 713A Croydon - Lucky Star families, 25 - 60% slopes

Acres: 22791

Number of Delineations: 126

Mapping Areas: CG NP SB SP WM WS

Named Components / Taxonomic Classification:
Croydon: Fine-loamy, mixed, superactive Pachic Argicryolls
Lucky Star: Loamy-skeletal, mixed, superactive Typic Palecryolls

Component Percentage:
Croydon: 50%
Lucky Star: 30%

Mapping Unit / Component Slope:
All: 25 - 60%

Mapping Unit / Component Aspect:
North aspects.

Mapping Unit / Component Elevation:
Dominantly 7800 - 10200'

Mapping Unit / Component Landform / Parent Material:
Steep north slopes - North Horn / Flagstaff uplands.

Mapping Unit / Component Vegetation:
Mixed aspen / spruce-fir.

Component Depth Class:
All: deep to very deep

Mapping Unit Position / Associations:
Mapping unit 715A occurs on steep north slopes under mixed aspen and spruce-fir on the Flagstaff and North Horn formations, primarily in the Western Slopes and Western Monocline areas, extending into the Northern Plateau and Central Grabens areas as well. It is associated with unit 701, on steep north slopes under spruce-fir, unit 570, on steep south slopes under aspen, and unit 561, on moderate slopes under aspen.

Component Moisture / Temperature Regime:
All: Udic, cryic

Component Name: Andok

Mapping Units: 20A, 20X

Taxonomic Classification: Loamy-skeletal, mixed, active, mesic Typic Haplustepts.

Moisture Regime: Ustic

Temperature Regime: Mesic

Parent Material: Slope alluvium and colluvium from sandstone – Mesa Verde Group.

Landform / Landscape Position: Steep uplands on the Mesa Verde group at 6700 – 8900 feet.

Slope Range: 30 – 80%

Aspect: all but N

Depth: moderately deep to deep

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 2 to 8 inches. It is a very gravelly or very cobbly loam or sandy loam, calcareous, and mildly to moderately alkaline.

A cambic horizon is present below the ochric surface, extending to a depth of 12 to 30 inches. It is a very gravelly or very cobbly loam, calcareous, and moderately to strongly alkaline.

A C horizon of relatively unaltered slope alluvium and colluvium may be present below the cambic horizon. It is a very gravelly or very cobbly loam or sandy loam, and extends to sandstone bedrock a depth of 30 to 60 inches.

Precipitation: 12 – 16"

Permeability: moderate
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 30 – 60"
Runoff: rapid
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Bundo

Mapping Units: 81, 107, 711, 711A, 820

Taxonomic Classification: Loamy-skeletal, mixed, superactive Ustic Palecryalfs

Moisture Regime: Ustic

Temperature Regime: Cryic

Parent Material: Colluvium and slope alluvium from sandstone and shale, dominantly from the Mesa Verde group (except unit 711A).

Landform / Landscape Position: Steep upland slopes at 7500 – 10300 feet.

Slope Range: Dominantly 30 – 70% (unit 711A is 15 – 50%)

Aspect: dominantly N aspects

Depth: very deep

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 3 to 10 inches. It is a gravelly sandy loam, and is medium to slightly acid.

An albic horizon (zone of significant leaching) occurs at a depth of 3 to 10 inches, extending to a depth of 20 to 30 inches. It is a gravelly or very gravelly sandy loam, and is medium acid.

An argillic horizon occurs below the albic horizon, with an upper boundary of 22 to 28 inches, to a depth of 40 to 60+ inches. It is a very gravelly sandy clay loam or loam, and is medium to slightly acid. The albic horizon tongues into the upper argillic horizon.

Precipitation: 20 – 30"

Permeability: moderately rapid
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Castino

Mapping Units: 1, 2, 4, 41

Taxonomic Classification: Clayey-skeletal, smectitic Pachic Argicryolls

Moisture Regime: Ustic

Temperature Regime: Cryic

Parent Material: Colluvium and residuum from Flagstaff limestone upper North Horn formation.

Landform / Landscape Position: Cap and associated uplands, in upper Flagstaff and North Horn formations, at 8800 – 10800 feet.

Slope Range: 0 – 30%

Aspect: all

Depth: moderately deep to deep

Drainage: well drained

Diagnostic Horizons:

A thick mollic surface is present, with a thickness of 20 to 30 inches. It is a very cobbly or very gravelly clay loam, and is neutral.

An argillic horizon occurs at a depth of 10 to 15 inches, extending to a depth of 30 to 50 inches. It is a very gravelly, very cobbly, or very stony clay, and is neutral to mildly alkaline. A few lime masses may be present in the lower part of the argillic horizon.

A C horizon may be present below the argillic horizon, extending to a depth of 30 to 60 inches. It is a very gravelly, very cobbly, or very stony clay loam, clay, or sandy clay loam, neutral to mildly alkaline, and may be calcareous.

Bedrock occurs at a depth of 30 to 60 inches.

Precipitation: 20 – 30"

Permeability: slow
Available Water Capacity: moderate
Hydrologic Group: C
Potential Rooting Depth: 30 – 60"
Runoff: medium
Soil Erodibility: low
Erosion Hazard (bare soil): moderate

Component Name: Circleville

Mapping Units: 107A

Taxonomic Classification: Loamy-skeletal, mixed, super., frigid Calcidic Argiustolls.

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Colluvium and slope alluvium from sandstone.

Landform / Landscape Position: Mesa Verde group uplands at 6900 – 9000 feet.

Slope Range: 40 – 80%

Aspect: dominantly N aspects

Depth: moderately deep

Drainage: well drained

Diagnostic Horizons:

A mollic surface is present, with a thickness of 10 to 16 inches. It is a very gravelly or very cobbly loam, and is neutral.

An argillic horizon occurs at a depth of 6 to 10 inches, and extends to a depth of 25 to 35 inches. It is a very gravelly or very cobbly clay loam or sand clay loam, and is neutral to mildly alkaline. The lower part of the argillic horizon may be calcareous.

A calcic horizon is present at a depth of 20 to 35 inches. It is a very gravelly or very cobbly loam, and is mildly to moderately alkaline.

Sandstone bedrock occurs at a depth of 30 to 40 inches.

Precipitation: 14 – 18"

Permeability: moderate
Available Water Capacity: low
Hydrologic Group: C
Potential Rooting Depth: 20 – 40"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Clayburn

Mapping Units: 45, 109A, 110A, 600

Taxonomic Classification: Fine-loamy, mixed, superactive Pachic Argicryolls

Moisture Regime: Ustic to udic

Temperature Regime: Cryic

Parent Material: Colluvium and slope alluvium from limestone, sandstone and shale.

Landform / Landscape Position: Bedrock controlled uplands; also mass wasting deposits in unit 600.

Slope Range: dominantly 15 to 60%, ranging to 5% in unit 600

Aspect: all

Depth: deep to very deep

Drainage: well drained

Diagnostic Horizons:

A thick mollic surface is present, to a depth of 20 to 30 inches. It is a loam, gravelly loam, or cobbly loam, and is slightly acid to neutral.

An argillic horizon occurs at a depth of 10 to 15 inches, extending to a depth of 40 to 50 inches. It is a clay loam, gravelly clay loam, sandy clay loam, or gravelly sandy clay loam, and is slightly acid to neutral in the upper part, and neutral to moderately alkaline in the lower part.

A C horizon typically occurs below the argillic horizon, extending to a depth of 40 to 60+ inches. It is a gravelly or cobbly loam, sandy loam, or sandy clay loam, and is neutral to mildly alkaline.

Bedrock, if present, occurs at a depth of greater than 40 inches.

Precipitation: 20 – 30"

Permeability: moderately slow
Available Water Capacity: high
Hydrologic Group: C
Potential Rooting Depth: 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Croydon

Mapping Units: 143, 145, 701, 715, 715A, 715B

Taxonomic Classification: Fine-loamy, mixed, superactive Pachic Argicryolls

Moisture Regime: Udic

Temperature Regime: Cryic

Parent Material: Slope alluvium and colluvium from North Horn formation.

Landform / Landscape Position: Steep upland slopes at 6800 – 10200 feet.

Slope Range: 20 – 60%

Aspect: dominantly N and E

Depth: deep

Drainage: well drained

Diagnostic Horizons:

A thick mollic surface is present, to a depth of 16 to 25 inches. It is a gravelly or cobbly loam, and is slightly acid.

An albic horizon (zone of significant leaching) is present below the mollic surface and above the argillic horizon. It is a loam, gravelly loam, sandy loam, or gravelly sandy loam, and is slightly acid.

An argillic horizon occurs at a depth of 14 to 20 inches, extending to a depth of 40 to 50 inches. It is a clay loam or gravelly clay loam, and is slightly acid. The albic horizon tongues into the upper argillic horizon.

Weathered shale or sandstone bedrock occurs at a depth of 40 to 60 inches.

A C horizon may occur below the argillic horizon and above bedrock. It is a gravelly clay loam or gravelly loam, and is neutral.

Precipitation: 20 – 30"

Permeability: moderately slow
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 40 – 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Detra

Mapping Units: 24A

Taxonomic Classification: Fine-loamy, mixed, superactive, frigid Pachic Argiustolls

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Residuum and slope alluvium from sandstone.

Landform / Landscape Position: Price River tablelands, at 7000 – 8900 feet.

Slope Range: 5 – 30%

Aspect: all

Depth: very deep

Drainage: well drained

Diagnostic Horizons:

A thick mollic surface is present, to a depth of 16 to 32 inches. It is a sandy loam or gravelly sandy loam, and is neutral.

An argillic horizon is present, which includes the lower part of the mollic horizon, extending to a depth of 40 to 50 inches. It is a sandy clay loam, clay loam, gravelly sandy clay loam, or gravelly clay loam, and is mildly to moderately alkaline. Secondary carbonates may be present, and increase with depth.

A C horizon is present below the argillic horizon, extending to a depth of 60+ inches. It is a sandy loam, gravelly sandy loam, loam, or gravelly loam, and is mildly to moderately alkaline.

Precipitation: 16 – 20"

Permeability: moderate
Available Water Capacity: high
Hydrologic Group: B
Potential Rooting Depth: 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Detra

Mapping Units: 35

Taxonomic Classification: Fine-loamy, mixed, superactive, frigid Pachic Argiustolls

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Residuum and slope alluvium from sandstone.

Landform / Landscape Position: Price River tablelands, at 7000 – 8900 feet.

Slope Range: 3 – 15%

Aspect: all

Depth: deep

Drainage: well drained

Diagnostic Horizons:

A thick mollic surface is present, to a depth of 16 to 32 inches. It is a sandy loam or gravelly sandy loam, and is neutral.

An argillic horizon is present, which includes the lower part of the mollic horizon, extending to a depth of 40 to 50 inches. It is a sandy clay loam, clay loam, gravelly sandy clay loam, or gravelly clay loam, and is mildly to moderately alkaline. Secondary carbonates may be present, and increase with depth.

A C horizon is present below the argillic horizon, extending to a depth of 60+ inches. It is a sandy loam, gravelly sandy loam, loam, or gravelly loam, and is mildly to moderately alkaline.

Precipitation: 16 – 20"

Permeability: moderate
Available Water Capacity: high
Hydrologic Group: B
Potential Rooting Depth: 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): moderate

Component Name: Elwood

Mapping Units: 45, 109, 109A, 110, 110B, 401, 402, 701, 701C

Taxonomic Classification: Loamy-skeletal, mixed, superactive Typic Argicryolls

Moisture Regime: Ustic to Udic

Temperature Regime: Cryic

Parent Material: Colluvium and slope alluvium from sandstone, limestone and shale.

Landform / Landscape Position: Bedrock-controlled uplands at 8200 – 11000 feet.

Slope Range: 10 – 70%

Aspect: all

Depth: moderately deep to deep

Drainage: well drained

Diagnostic Horizons:

A mollic surface is present, with a thickness of 10 to 16 inches. It is a very gravelly or very cobbly loam or sandy loam, and is slightly acid to neutral.

An argillic horizon occurs below the mollic surface, extending to a depth of 30 to 50 inches. It is a very gravelly or very cobbly clay loam or sandy clay loam, and is slightly acid to neutral. Secondary carbonates may be present in the lower part of the argillic horizon.

Weathered bedrock occurs at a depth of 30 to 50 inches.

Precipitation: 18 – 30"

Permeability: moderate
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 30 – 50"
Runoff: rapid
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Faim

Mapping Units: 45A, 110A, 715B, 600, 600H, 602

Taxonomic Classification: Fine, smectitic Pachic Argicryolls

Moisture Regime: Ustic to Udic

Temperature Regime: Cryic

Parent Material: Colluvium and slope alluvium from limestone and shale.

Landform / Landscape Position: Moderately sloping bedrock-controlled uplands; also on mass wasting deposits in units 600, 600H and 602.

Slope Range: 5 – 60%

Aspect: all

Depth: deep to very deep

Drainage: well drained

Diagnostic Horizons:

A thick mollic surface is present, with a thickness of 20 to 30 inches. It is a clay loam, silty clay loam, gravelly clay loam, or gravelly silty clay loam, and is slightly acid to neutral.

An argillic horizon is present at a depth of 8 to 15 inches, extending to a depth of 30 to 45 inches. It is a clay, gravelly clay, silty clay, or gravelly silty clay, and is neutral to mildly alkaline.

A C horizon, comprised of fine textured colluvium and slope alluvium, occurs below the argillic horizon. It is a clay, clay loam, gravelly clay, or gravelly clay loam, moderately alkaline, and typically calcareous. It extends to a depth of 40 to 60+ inches.

Weathered bedrock may occur in some units at a depth of greater than 40 inches.

Precipitation: 20 – 30"

Permeability: slow
Available Water Capacity: moderate
Hydrologic Group: D
Potential Rooting Depth: 40 – 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Falcon

Mapping Units: 57

Taxonomic Classification: Loamy, mixed, superactive, frigid Lithic Haplustolls

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Residuum from sandstone.

Landform / Landscape Position: Price River tablelands at 8300 – 8900 feet.

Slope Range: 2 – 10%

Aspect: all

Depth: shallow

Drainage: well drained

Diagnostic Horizons:

A mollic surface is present, with a thickness of 7 to 10 inches. It is a sandy loam or gravelly sandy loam, and is slightly acid to neutral.

A cambic horizon occurs below the mollic surface, extending to fractured sandstone bedrock at a depth of 12 to 20 inches. It is a sandy loam or gravelly sandy loam, and is slightly acid to neutral.

Fractured sandstone bedrock occurs at a depth of 12 to 20 inches.

Precipitation: 16 – 22"

Permeability: moderately rapid
Available Water Capacity: low
Hydrologic Group: C
Potential Rooting Depth: < 20"
Runoff: slow
Soil Erodibility: moderate
Erosion Hazard (bare soil): moderate

Component Name: Kildor

Mapping Units: 640

Taxonomic Classification: Fine, smectitic Ustic Haplocryolls

Moisture Regime: Ustic

Temperature Regime: Cryic

Parent Material: Mass wasting and landslide materials derived from North Horn formation.

Landform / Landscape Position: Unstable, hummocky mass wasting transport surfaces at 7400 – 9700 feet.

Slope Range: 10 – 40%

Aspect: all

Depth: very deep

Drainage: well drained

Diagnostic Horizons:

A mollic surface is present, with a thickness of 8 to 12 inches. It is a silty clay loam, silty clay, or clay, mildly alkaline, and calcareous.

A cambic horizon occurs below the mollic surface, extending to a depth of 20 to 30 inches. It is a silty clay loam, silty clay, or clay, mildly to moderately alkaline, and calcareous.

A C horizon occurs below the cambic horizon, extending to a depth of 60+ inches. It is comprised of fine textured alluvial and colluvial materials, typically silty clay, clay, or silty clay loam. It is moderately to strongly alkaline, and strongly calcareous. Secondary lime features may be present.

Precipitation: 18 – 24"

Permeability: slow
Available Water Capacity: moderate
Hydrologic Group: C
Potential Rooting Depth: 60"
Runoff: medium
Soil Erodibility: high
Erosion Hazard (bare soil): high

Component Name: Mara

Mapping Units: 26

Taxonomic Classification: Fine-loamy, mixed, superactive, frigid Typic Haplustepts

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Alluvium from sandstone, shale.

Landform / Landscape Position: Coalesced alluvial fan terrace at 7000 – 8400 feet.

Slope Range: 5 – 20%

Aspect: all

Depth: very deep

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 2 to 6 inches. It is a gravelly, very gravelly, cobbly, or very cobbly loam or sandy loam, mildly to moderately alkaline, and calcareous.

A cambic horizon occurs below the ochric surface, extending to a depth of 25 to 30 inches. It is a gravelly or cobbly loam or sandy clay loam, mildly to moderately alkaline, and calcareous. Secondary lime features may be present.

A calcic horizon occurs below the cambic horizon, extending to a depth of 35 to 45 inches. It is a gravelly or cobbly loam or sandy clay loam, moderately to strongly alkaline, and strongly calcareous.

A C horizon, comprised of mixed alluvium, occurs below the calcic horizon, extending to a depth of 60+ inches. It is a gravelly or cobbly loam or sandy loam, moderately to strongly alkaline, and calcareous.

Precipitation: 12 – 16"

Permeability: moderately slow
Available Water Capacity: high
Hydrologic Group: B
Potential Rooting Depth: 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Mortenson

Mapping Units: 715

Taxonomic Classification: Clayey-skeletal, smectitic Ustic Palecryalfs

Moisture Regime: Ustic

Temperature Regime: Cryic

Parent Material: Colluvium / slope alluvium from North Horn formation.

Landform / Landscape Position: Steep North Horn uplands at 7400 – 9100 feet.

Slope Range: 30 – 70%

Aspect: N

Depth: very deep

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 2 to 6 inches. It is a gravelly silt loam, sandy loam, or loam, and is slightly to medium acid.

An albic horizon (zone of significant leaching) is present below the ochric surface, extending to a depth of 22 to 28 inches. It is a silt loam or sandy loam, and may be gravelly or cobbly. It is slightly to medium acid.

An argillic horizon occurs below the albic horizon, extending to a depth of 60+ inches. It is a very gravelly, very cobbly, or very stony clay or clay loam, and is slightly acid. The albic horizon tongues into the upper 8 to 12 inches of the argillic horizon.

Precipitation: 25 – 30"

Permeability: slow
Available Water Capacity: moderate
Hydrologic Group: C
Potential Rooting Depth: 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Panguitch

Mapping Units: 107A

Taxonomic Classification: Coarse-loamy, mixed, superactive, frigid Typic Argiustolls

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Colluvium / slope alluvium from sandstone.

Landform / Landscape Position: Steep Mesa Verde group uplands at 6900 – 9000 feet.

Slope Range: 40 – 80%

Aspect: dominantly N

Depth: deep

Drainage: well drained

Diagnostic Horizons:

A mollic surface is present, with a thickness of 12 to 18 inches. It is a loam or sandy loam, may be gravelly or cobbly, and is neutral.

An argillic horizon occurs at a depth of 6 to 12 inches, extending to a depth of 25 to 40 inches. It is a loam or sandy loam, and may be gravelly. It is neutral to moderately alkaline, and calcareous in the lower part.

A C horizon may occur below the argillic horizon, extending to a depth of 40 to 60 inches. It is a sandy loam or gravelly sandy loam, and is neutral to mildly alkaline.

Sandstone bedrock may occur at a depth of 40 to 60 inches.

Precipitation: 14 – 18"

Permeability: moderate
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 40 – 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Pathead

Mapping Units: 20, 25, 25A, 100, 100B

Taxonomic Classification: Loamy-skeletal, mixed, superactive, frigid Typic Haplustepts

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Colluvium / slope alluvium from sandstone, shale.

Landform / Landscape Position: Moderate to steep Mesa Verde group uplands at 6700 – 9300 feet.

Slope Range: 5 – 70%

Aspect: all aspects on lower slopes; all but N aspects on steep slopes.

Depth: moderately deep

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 2 to 6 inches. It is a very gravelly or very cobbly loam or sandy loam, mildly alkaline, and calcareous.

A cambic horizon occurs below the ochric surface, extending to a depth of 22 to 40 inches. It is a very gravelly or very cobbly loam, mildly to moderately alkaline, and calcareous. Secondary carbonates occur at a depth of 14 to 40 inches.

Weathered sandstone or shale bedrock occurs at a depth of 22 to 40 inches.

Precipitation: 12 – 18"

Permeability: moderate
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 20 – 40"
Runoff: rapid
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Rabbitex

Mapping Units: 24, 24S

Taxonomic Classification: Fine-loamy, mixed, superactive, frigid Aridic Calciustolls

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Slope alluvium / residuum from North Horn formation.

Landform / Landscape Position: North Horn pediment terrace, at 7000 – 9200 feet.

Slope Range: 5 – 40%

Aspect: all

Depth: very deep

Drainage: well drained

Diagnostic Horizons:

A mollic surface is present, with a thickness of 10 to 15 inches. It is a loam or silt loam, and may be gravelly or cobbly. It is mildly to moderately alkaline, and slightly calcareous.

A cambic horizon is present at a depth of 6 to 10 inches, extending to a depth of 16 to 25 inches. It is a loam or clay loam, and may be gravelly or cobbly. It is mildly to moderately alkaline, and calcareous.

A calcic horizon occurs below the cambic horizon, extending to a depth of 40 to 50 inches. It is a loam, clay loam, or sandy clay loam, and may be gravelly or cobbly. It is moderately to strongly alkaline, and strongly calcareous.

A C horizon, comprised of slope alluvium and colluvium, occurs below the calcic horizon, extending to a depth of 60+ inches. It is a loam, sandy clay loam, or sandy loam, and may be gravelly or cobbly. It is moderately alkaline and calcareous.

Precipitation: 14 – 18"

Permeability: moderate
Available Water Capacity: high
Hydrologic Group: B
Potential Rooting Depth: 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Repp

Mapping Units: 24, 24S

Taxonomic Classification: Loamy-skeletal, mixed, superactive, frigid Typic Haplustepts

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Colluvium / residuum from North Horn formation.

Landform / Landscape Position: North Horn pediment terrace at 7200 – 9200 feet.

Slope Range: 5 – 40%

Aspect: all

Depth: deep to very deep

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 6 to 10 inches. It is a very gravelly or very cobbly loam or silt loam, mildly alkaline, and slightly calcareous.

A cambic horizon occurs below the ochric surface, extending to a depth of 12 to 20 inches. It is a very gravelly or very cobbly loam, silt loam, or sandy clay loam, slightly to moderately alkaline, and calcareous.

A calcic horizon occurs below the cambic horizon, extending to a depth of 30 to 40 inches. It is a very gravelly or very cobbly loam or sandy clay loam, moderately to strongly alkaline, and strongly calcareous.

A C horizon, comprised of colluvium and slope alluvium, occurs below the calcic horizon, extending to a depth of 40 to 60+ inches. It is a very gravelly or very cobbly loam or sandy clay loam, moderately to strongly alkaline, and calcareous.

Weathered shale bedrock may occur at a depth of 40 to 60 inches.

Precipitation: 14 – 18"

Permeability: moderate
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 40 – 60"
Runoff: rapid
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Scout

Mapping Units: 81, 107, 107A, 711

Taxonomic Classification: Loamy-skeletal, mixed, superactive Ustic Eutrocryepts

Moisture Regime: Ustic / Udic

Temperature Regime: Cryic

Parent Material: Colluvium / slope alluvium from sandstone, other Mesa Verde group.

Landform / Landscape Position: Steep Mesa Verde group uplands at 6500 – 10200 feet.

Slope Range: 30 – 80%

Aspect: dominantly N

Depth: very deep

Drainage: well drained

Diagnostic Horizons:

A thin dark surface is present, with a thickness of 4 to 6 inches. It is a loam or sandy loam, and may be gravelly or cobbly. It is slightly to strongly acid.

An albic horizon (zone of significant leaching) is present at a depth of 4 to 6 inches, extending to a depth of 20 to 30 inches. It is a gravelly, cobbly, very gravelly, or very cobbly sandy loam, and is slightly to strongly acid.

A cambic horizon occurs below the albic horizon, extending to a depth of 40 to 60 inches. It is a very gravelly or very cobbly sandy loam or loam, and is neutral to medium acid.

A C horizon, comprised of slope alluvium and colluvium, occurs below the cambic horizon, extending to a depth of 60+ inches. It is a very gravelly or very cobbly sandy loam or loam, and is neutral to strongly acid.

Precipitation: 18 – 28"

Permeability: moderate
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Shupert

Mapping Units: 7, 12

Taxonomic Classification: Fine-loamy, mixed, superactive, calcareous, frigid Typic Ustifluvents

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Mixed alluvium.

Landform / Landscape Position: Low stream terraces and flood plains adjacent to drainages in canyon bottoms, at 6400 – 8000 feet.

Slope Range: 2 – 8%

Aspect: all

Depth: very deep

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 4 to 12 inches. It is a loam, sandy loam, or silt loam, and may be gravelly or cobbly. It is mildly alkaline and slightly calcareous.

The subsoil, to a depth of 60+ inches, is stratified stream alluvium. It is a loam, clay loam, sandy clay loam, or silt loam, and may be gravelly or cobbly. It is mildly to moderately alkaline, and calcareous, with most lime disseminated.

Precipitation: 12 – 18"

Permeability: slow
Available Water Capacity: high
Hydrologic Group: C
Potential Rooting Depth: 60"
Runoff: slow
Soil Erodibility: low
Erosion Hazard (bare soil): moderate

Component Name: Strych

Mapping Units: 9, 9A, 9M, 20, 20A

Taxonomic Classification: Loamy-skeletal, mixed, superactive, mesic Ustic Haplocalcids

Moisture Regime: Aridic ustic

Temperature Regime: Mesic

Parent Material: Colluvium / slope alluvium from shale, sandstone.

Landform / Landscape Position: Mancos and lower Mesa Verde group uplands at 6400 – 8900 feet.

Slope Range: 5 – 70%

Aspect: all

Depth: deep

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 2 to 6 inches. It is a very gravelly or very cobbly loam, sandy loam, or silt loam, mildly to moderately alkaline, and calcareous.

A cambic horizon occurs below the ochric surface, extending to a depth of 8 to 15 inches. It is a very gravelly or very cobbly loam, sandy loam, or clay loam, mildly to moderately alkaline, and calcareous.

A calcic horizon occurs below the cambic horizon, extending to a depth of 25 to 45 inches. It is a very gravelly or very cobbly loam, sandy loam, or sandy clay loam, moderately to strongly alkaline, and strongly calcareous.

A C horizon, comprised of slope alluvium and colluvium, occurs below the calcic horizon, extending to a depth of 40 to 60 inches. It is a very gravelly or very cobbly loam or sandy loam, moderately to strongly alkaline, and calcareous.

Weathered sandstone or shale bedrock may occur at a depth of 40 to 60 inches.

Precipitation: 12 – 16"

Permeability: moderately rapid
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 40 – 60"
Runoff: rapid
Soil Erodibility: high
Erosion Hazard (bare soil): high

Component Name: Uinta

Mapping Units: 107, 107B, 711A

Taxonomic Classification: Fine-loamy, mixed, superactive Eutric Glossocryalfs

Moisture Regime: Ustic to Udic

Temperature Regime: Cryic

Parent Material: Slope alluvium / colluvium from sandstone, shale, limestone.

Landform / Landscape Position: North Horn, Mesa Verde group uplands at 7500 – 10400 feet.

Slope Range: 5 – 70%

Aspect: all on lower slopes; N aspects on steeper slopes

Depth: deep

Drainage: well drained

Diagnostic Horizons:

A thin dark surface is present, with a thickness of 2 to 6 inches. It is a loam, gravelly loam, sandy loam, or gravelly sandy loam, and is neutral.

An albic horizon (zone of significant leaching) occurs below the surface horizon, extending to a depth of 8 to 16 inches. It is a loam, sandy loam, or silt loam, and may be gravelly or cobbly. It is neutral to slightly acid.

An argillic horizon occurs below the albic horizon, extending to a depth of 40 to 60 inches. It is a clay loam or sandy clay loam, and may be gravelly or cobbly. The albic horizon tongues into the upper part of the argillic horizon. It is neutral to slightly acid.

Weathered bedrock occurs at a depth of 40 to 60 inches.

Precipitation: 20 – 30"

Permeability: moderately slow
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 40 – 60"
Runoff: medium
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Welring

Mapping Units: 20X

Taxonomic Classification: Loamy-skeletal, carbonatic, mesic Lithic Ustorthents

Moisture Regime: Ustic

Temperature Regime: Mesic

Parent Material: Slope alluvium / colluvium from sandstone.

Landform / Landscape Position: Steep slopes, scarps on Mesa Verde group at 6700 – 8700 feet.

Slope Range: 50 – 80%

Aspect: all; dominantly E

Depth: shallow

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 2 to 6 inches. It is a very gravelly or very cobbly sandy loam, neutral to mildly alkaline, and slightly calcareous.

A cambic horizon is present below the ochric surface, extending to sandstone bedrock at a depth of 12 to 20 inches. It is a very gravelly or very cobbly sandy loam or loam, mildly alkaline, and calcareous.

Weathered sandstone bedrock occurs at a depth of 12 to 20 inches.

Precipitation: 12 – 16"

Permeability: moderately rapid
Available Water Capacity: low
Hydrologic Group: C
Potential Rooting Depth: < 20"
Runoff: rapid
Soil Erodibility: high
Erosion Hazard (bare soil): high

Component Name: Whetrock

Mapping Units: 24A

Taxonomic Classification: Loamy-skeletal, superactive, frigid Aridic Calciustolls

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Residuum / colluvium from sandstone.

Landform / Landscape Position: Price River tablelands at 7800 – 9200 feet.

Slope Range: 5 – 30%

Aspect: all

Depth: moderately deep

Drainage: well drained

Diagnostic Horizons:

A mollic surface is present, with a thickness of 7 to 12 inches. It is a very gravelly or very cobbly loam, sandy loam, or silt loam, moderately alkaline, and calcareous.

A calcic horizon occurs below the mollic surface, extending to weathered shale bedrock at a depth of 20 to 40 inches. It is a very gravelly or very cobbly loam, sandy loam or silt loam, moderately to strongly alkaline, and strongly calcareous.

Weathered sandstone bedrock occurs at a depth of 20 to 40 inches.

Precipitation: 14 – 18"

Permeability: moderate
Available Water Capacity: low
Hydrologic Group: C
Potential Rooting Depth: 20 – 40"
Runoff: rapid
Soil Erodibility: moderate
Erosion Hazard (bare soil): high

Component Name: Wiggler

Mapping Units: 20, 20A

Taxonomic Classification: Loamy, mixed, superactive, calcareous, frigid, shallow Typic Ustorthents

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Residuum / colluvium from sandstone, shale.

Landform / Landscape Position: Steep Mesa Verde group uplands at 6700 – 9400 feet.

Slope Range: 30 – 80%

Aspect: all but N

Depth: shallow

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 2 to 4 inches. It is a gravelly, very gravelly, cobbly, or very cobbly loam or sandy loam, moderately alkaline, and calcareous.

A C horizon, comprised of slope alluvium and colluvium, occurs below the ochric surface, extending to weathered bedrock at a depth of 12 to 20 inches. It is a gravelly, cobbly, or stony loam or clay loam, moderately to strongly alkaline, and calcareous.

Weathered sandstone or shale bedrock occurs at a depth of 12 to 20 inches.

Precipitation: 12 – 16"

Permeability: moderate
Available Water Capacity: low
Hydrologic Group: D
Potential Rooting Depth: < 20"
Runoff: rapid
Soil Erodibility: high
Erosion Hazard (bare soil): high

Component Name: Winetti

Mapping Units: 7

Taxonomic Classification: Loamy-skeletal, mixed, superactive, calcareous, frigid Typic Ustifluvents

Moisture Regime: Ustic

Temperature Regime: Frigid

Parent Material: Mixed alluvium, dominantly from Mesa Verde group.

Landform / Landscape Position: Low stream terraces and floodplains along major drainages at 6400 – 7800 feet.

Slope Range: 2 – 8%

Aspect: all

Depth: very deep

Drainage: well drained

Diagnostic Horizons:

An ochric surface is present, with a thickness of 6 to 12 inches. It is a gravelly, very gravelly, cobbly, very cobbly, stony, or very stony loam, sandy loam, or silt loam, mildly alkaline, and slightly calcareous.

The subsoil, to a depth of 60+ inches, is stratified stream alluvium. It is a very gravelly, very cobbly, or very stony loam, sandy loam, or silt loam. It is mildly to moderately alkaline, and calcareous, with most lime disseminated.

Precipitation: 12 – 16"

Permeability: moderately rapid
Available Water Capacity: moderate
Hydrologic Group: B
Potential Rooting Depth: 60"
Runoff: slow
Soil Erodibility: low
Erosion Hazard (bare soil): low

APPENDIX 7-1

Water Rights Data

STATE OF UTAH -- DIVISION OF WATER RIGHTS -- DATA PRINT OUT for 94-449

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 01/12/2005

WRNUM: 94-449 APPLICATION/CLAIM NO.: CERT. NO.:

OWNERSHIP

NAME: USA Forest Service
ADDR: 324 - 25th Street
Ogden UT 84401

LAND OWNED BY APPLICANT?

DATES, ETC.

FILED: 12/14/1981	PRIORITY: 00/00/1879	PUB BEGAN:	PUB ENDED:	NEWSPAPER:
ProtestEnd:	PROTESTED: [No]	HEARNG HLD:	SE ACTION: [ ]	ActionDate:
EXTENSION:	ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC: 12/14/1981	LAP, ETC:
RENOVATE:	RECON REQ:	TYPE: [ ]		

PROOF DUE:
PROV LETTER:

PD Book No. 1 Map: *

Type of Right: Diligence Claim Source of Info: Proposed Determination Status: WUC

LOCATION OF WATER RIGHT

FLOW: SOURCE: Green Canyon & Hollow Stream

COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION -- POINT TO POINT:
(1)Stockwatering directly on stream from a point at ,
to a point in NE4SE4 Sec 28, T20S, R5E, SLBM.
Source:

USES OF WATER RIGHT

WATER RIGHT CLAIMS IN COMMON: See WUC 94-512.
Referenced To: 94-512 Claims Groups: Type of Reference -- Claims: X Purpose: Remarks:

###STOCKWATERING: 1367 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 06/16 TO 09/30
Emery Allotment

E N D O F D A T A

STATE OF UTAH -- DIVISION OF WATER RIGHTS -- DATA PRINT OUT for 94-455

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 01/12/2005

WRNUM: 94-455 APPLICATION/CLAIM NO.: CERT. NO.:

OWNERSHIP

NAME: USA Forest Service
ADDR: 324 - 25th Street
Ogden UT 84401

LAND OWNED BY APPLICANT?

DATES, ETC.

FILED: 08/07/1981	PRIORITY: 00/00/1879	PUB BEGAN:	PUB ENDED:	NEWSPAPER:
ProtestEnd:	PROTESTED: [No]	HEARNG HLD:	SE ACTION: [ ]	ActionDate:
EXTENSION:	ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC: 08/07/1981	LAP, ETC:
RENOVATE:	RECON REQ:	TYPE: [ ]		

PROOF DUE:		
PROV LETTER:		

PD Book No. 1 Map: *

Type of Right: Diligence Claim Source of Info: Proposed Determination Status: WUC

LOCATION OF WATER RIGHT

FLOW: SOURCE: Unnamed Stream

COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION:
(1)Stockwatering directly on reservoir located in SE4SW4 Sec 05, T21S, R5E, SLBM.
Source:

USES OF WATER RIGHT

WATER RIGHT CLAIMS IN COMMON: See WUC 94-512.
Referenced To: 94-512 Claims Groups: Type of Reference -- Claims: X Purpose: Remarks:

###STOCKWATERING: 1367 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 06/16 TO 09/30
Emery Allotment

Storage from 01/01 to 12/31, inclusive, in Unnamed Reservoir with a maximum capacity of 1.000 acre-feet, located in:

	NORTH-WEST¼	NORTH-EAST¼	SOUTH-WEST¼	SOUTH-EAST¼
Height of Dam:				
Area Inundated:	NW NE SW SE	NW NE SW SE	NW NE SW SE	NW NE SW SE
Sec 05 T 21S R 5E SLBM	* : : : *	* : : : *	* : : : X*	* : : : *

END OF DATA

STATE OF UTAH -- DIVISION OF WATER RIGHTS -- DATA PRINT OUT for 94-457

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 01/12/2005

WRNUM: 94-457 APPLICATION/CLAIM NO.: CERT. NO.:

OWNERSHIP

NAME: USA Forest Service
ADDR: 324 - 25th Street
Ogden UT 84401

LAND OWNED BY APPLICANT?

DATES, ETC.

FILED: 08/07/1981	PRIORITY: 00/00/1879	PUB BEGAN:	PUB ENDED:	NEWSPAPER:
ProtestEnd:	PROTESTED: [No]	HEARNG HLD:	SE ACTION: [ ]	ActionDate:	PROOF DUE:
EXTENSION:	ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC: 08/07/1981	LAP, ETC:	PROV LETTER:
RENOVATE:	RECON REQ:	TYPE: [ ]			

PD Book No. 1 Map: *

Type of Right: Diligence Claim Source of Info: Proposed Determination Status: WUC

LOCATION OF WATER RIGHT

FLOW: 0.011 cfs SOURCE: Unnamed Spring

COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION:
(1)Stockwatering directly on spring located in SW4NE4 Sec 08, T21S, R5E, SLBM.
Source:

USES OF WATER RIGHT

WATER RIGHT CLAIMS IN COMMON: See WUC 94-512.
Referenced To: 94-512 Claims Groups: Type of Reference -- Claims: X Purpose: Remarks:

###STOCKWATERING: 1367 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 06/16 TO 09/30
Emery Allotment

END OF DATA

STATE OF UTAH -- DIVISION OF WATER RIGHTS -- DATA PRINT OUT for 94-459

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 01/12/2005

WRNUM: 94-459 APPLICATION/CLAIM NO.: CERT. NO.:

OWNERSHIP**********

NAME: USA Forest Service
ADDR: 324 - 25th Street
Ogden UT 84401

LAND OWNED BY APPLICANT?

DATES, ETC.**********

FILED: 08/07/1981	PRIORITY: 00/00/1879	PUB BEGAN:	PUB ENDED:
			NEWSPAPER:
ProtestEnd:	PROTESTED: [No]	HEARNG HLD:	SE ACTION: [ ]
			ActionDate:
EXTENSION:	ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC: 08/07/1981
			PROOF DUE:
RENOVATE:	RECON REQ:	TYPE: [ ]	LAP, ETC:
			PROV LETTER:

PD Book No. 1 Map: *

Type of Right: Diligence Claim Source of Info: Proposed Determination Status: WUC

LOCATION OF WATER RIGHT**********

FLOW: 0.011 cfs SOURCE: Big Ridge Spring #2

COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION:
(1)Stockwatering directly on spring located in SW4SE4 Sec 08, T21S, R5E, SLBM.
Source:

USES OF WATER RIGHT**********

WATER RIGHT CLAIMS IN COMMON: See WUC 94-512.
Referenced To: 94-512 Claims Groups: Type of Reference -- Claims: X Purpose: Remarks:

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###STOCKWATERING: 1367 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 06/16 TO 09/30
Emery Allotment

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**********E N D O F D A T A**********

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STATE OF UTAH -- DIVISION OF WATER RIGHTS -- DATA PRINT OUT for 94-463

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 01/12/2005 Page 1

WRNUM: 94-463 APPLICATION/CLAIM NO.: CERT. NO.:

OWNERSHIP**********

NAME: USA Forest Service
ADDR: 324 - 25th Street
Ogden UT 84401

LAND OWNED BY APPLICANT?

DATES, ETC.**********

FILED: 12/14/1981	PRIORITY: 00/00/1879	PUB BEGAN:	PUB ENDED:	NEWSPAPER:
ProtestEnd:	PROTESTED: [No]	HEARNG HLD:	SE ACTION: [ ]	ActionDate: / PROOF DUE:
EXTENSION:	ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC: 12/14/1981	LAP, ETC: / PROV LETTER:
RENOVATE:	RECON REQ:	TYPE: [ ]		

PD Book No. 1 Map: *

Type of Right: Diligence Claim Source of Info: Proposed Determination Status: WUC

LOCATION OF WATER RIGHT**********

FLOW: SOURCE: Tributary to Cowboy Creek

COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION -- POINT TO POINT:
(1)Stockwatering directly on stream from a point in SE4SE4 Sec 05, T21S, R5E, SLBM,
to a point in SE4SE4 Sec 32, T20S, R5E, SLBM.
Source:

USES OF WATER RIGHT**********

WATER RIGHT CLAIMS IN COMMON: See WUC 94-512.
Referenced To: 94-512 Claims Groups: Type of Reference -- Claims: X Purpose: Remarks:

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###STOCKWATERING: 1367 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 06/16 TO 09/30
Emery Allotment

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**********E N D O F D A T A**********

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STATE OF UTAH -- DIVISION OF WATER RIGHTS -- DATA PRINT OUT for 94-472

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 01/12/2005

WRNUM: 94-472 APPLICATION/CLAIM NO.: CERT. NO.:

OWNERSHIP

NAME: USA Forest Service
ADDR: 324 - 25th Street
Ogden UT 84401

LAND OWNED BY APPLICANT?

DATES, ETC.

FILED: 08/07/1981	PRIORITY: 00/00/1879	PUB BEGAN:	PUB ENDED:	NEWSPAPER:
ProtestEnd:	PROTESTED: [No]	HEARNG HLD:	SE ACTION: [ ]	ActionDate:	PROOF DUE:
EXTENSION:	ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC: 08/07/1981	LAP, ETC:	PROV LETTER:
RENOVATE:	RECON REQ:	TYPE: [ ]			

PD Book No. 1 Map: *

Type of Right: Diligence Claim Source of Info: Proposed Determination Status: WUC

LOCATION OF WATER RIGHT

FLOW: 0.011 cfs SOURCE: Rough Brothers Spring

COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION:
(1)Stockwatering directly on spring located in NW4NE4 Sec 31, T20S, R5E, SLBM.
Source:

USES OF WATER RIGHT

WATER RIGHT CLAIMS IN COMMON: See WUC 94-512.
Referenced To: 94-512 Claims Groups: Type of Reference -- Claims: X Purpose: Remarks:

###STOCKWATERING: 1367 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 06/16 TO 09/30
Emery Allotment

E N D O F D A T A

STATE OF UTAH -- DIVISION OF WATER RIGHTS -- DATA PRINT OUT for 94-473

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 01/12/2005 Page 1

WRNUM: 94-473 APPLICATION/CLAIM NO.: CERT. NO.:

OWNERSHIP**********

NAME: USA Forest Service
ADDR: 324 - 25th Street
Ogden UT 84401

LAND OWNED BY APPLICANT?

DATES, ETC.**********

FILED: 08/07/1981	PRIORITY: 00/00/1879	PUB BEGAN:	PUB ENDED:	NEWSPAPER:
ProtestEnd:	PROTESTED: [No]	HEARNG HLD:	SE ACTION: [ ]	ActionDate:	PROOF DUE:
EXTENSION:	ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC: 08/07/1981	LAP, ETC:	PROV LETTER:
RENOVATE:	RECON REQ:	TYPE: [ ]			

PD Book No. 1 Map: *

Type of Right: Diligence Claim Source of Info: Proposed Determination Status: WUC

LOCATION OF WATER RIGHT**********

FLOW: 0.011 cfs SOURCE: Unnamed Spring

COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION:
(1)Stockwatering directly on spring located in NE4NE4 Sec 31, T20S, R5E, SLBM.
Source:

USES OF WATER RIGHT**********

WATER RIGHT CLAIMS IN COMMON: See WUC 94-512.
Referenced To: 94-512 Claims Groups: Type of Reference -- Claims: X Purpose: Remarks:

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###STOCKWATERING: 1367 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 06/16 TO 09/30
Emery Allotment

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**********E N D O F D A T A**********

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STATE OF UTAH -- DIVISION OF WATER RIGHTS -- DATA PRINT OUT for 94-476

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 01/13/2005

WRNUM: 94-476 APPLICATION/CLAIM NO.: CERT. NO.:

OWNERSHIP**********

NAME: USA Forest Service
ADDR: 324 - 25th Street
Ogden UT 84401

LAND OWNED BY APPLICANT?

DATES, ETC.**********

FILED: 08/07/1981	PRIORITY: 00/00/1879	PUB BEGAN:	PUB ENDED:	NEWSPAPER:
ProtestEnd:	PROTESTED: [No]	HEARNG HLD:	SE ACTION: [ ]	ActionDate:	PROOF DUE:
EXTENSION:	ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC: 08/07/1981	LAP, ETC:	PROV LETTER:
RENOVATE:	RECON REQ:	TYPE: [ ]			

PD Book No. 1 Map: *

Type of Right: Diligence Claim Source of Info: Proposed Determination Status: WUC

LOCATION OF WATER RIGHT**********

FLOW: SOURCE: Cowboy Creek

COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION -- POINT TO POINT:
(1)Stockwatering directly on stream from a point in SE4NW4 Sec 02, T21S, R4E, SLBM,
to a point in NE4NW4 Sec 32, T20S, R5E, SLBM.
Source:

USES OF WATER RIGHT**********

WATER RIGHT CLAIMS IN COMMON: See WUC 94-512.
Referenced To: 94-512 Claims Groups: Type of Reference -- Claims: X Purpose: Remarks:

###STOCKWATERING: 1367 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 06/16 TO 09/30
Emery Allotment

**********E N D O F D A T A**********

STATE OF UTAH -- DIVISION OF WATER RIGHTS -- DATA PRINT OUT for 94-478

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 01/12/2005

WRNUM: 94-478 APPLICATION/CLAIM NO.: CERT. NO.:

OWNERSHIP**********

NAME: USA Forest Service
ADDR: 324 - 25th Street
Ogden UT 84401

LAND OWNED BY APPLICANT?

DATES, ETC.**********

FILED: 08/07/1981	PRIORITY: 00/00/1879	PUB BEGAN:	PUB ENDED:	NEWSPAPER:
ProtestEnd:	PROTESTED: [No]	HEARNG HLD:	SE ACTION: [ ]	ActionDate:	PROOF DUE:
EXTENSION:	ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC: 08/07/1981	LAP, ETC:	PROV LETTER:
RENOVATE:	RECON REQ:	TYPE: [ ]			

PD Book No. 1 Map: *

Type of Right: Diligence Claim Source of Info: Proposed Determination Status: WUC

LOCATION OF WATER RIGHT**********

FLOW: 0.011 cfs SOURCE: Green Hollow Spring

COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION:
(1)Stockwatering directly on spring located in NW4NW4 Sec 32, T20S, R5E, SLBM.
Source:

USES OF WATER RIGHT**********

WATER RIGHT CLAIMS IN COMMON: See WUC 94-512.
Referenced To: 94-512 Claims Groups: Type of Reference -- Claims: X Purpose: Remarks:

.....

###STOCKWATERING: 1367 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 06/16 TO 09/30
Emery Allotment

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**********E N D O F D A T A**********

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STATE OF UTAH -- DIVISION OF WATER RIGHTS -- DATA PRINT OUT for 94-597

(WARNING: Water Rights makes NO claims as to the accuracy of this data.) RUN DATE: 01/12/2005 Page 1

WRNUM: 94-597 APPLICATION/CLAIM NO.: CERT. NO.:

OWNERSHIP**********

NAME: USA Forest Service
ADDR: 324 - 25th Street
Ogden UT 84401

LAND OWNED BY APPLICANT?

DATES, ETC.**********

FILED:	PRIORITY: 00/00/1879	PUB BEGAN:	PUB ENDED:	NEWSPAPER:
ProtestEnd:	PROTESTED: [No]	HEARNG HLD:	SE ACTION: [ ]	ActionDate:	PROOF DUE:
EXTENSION:	ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC: 08/07/1981	LAP, ETC:	PROV LETTER:
RENOVATE:	RECON REQ:	TYPE: [ ]			

PD Book No. 1 Map: *

Type of Right: Diligence Claim Source of Info: Proposed Determination Status: WUC

LOCATION OF WATER RIGHT**********

FLOW: 0.011 cfs SOURCE: Unnamed Spring

COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION:
(1)Stockwatering directly on spring located in NW4NE4 Sec 31, T20S, R5E, SLBM.
Source:

USES OF WATER RIGHT**********

WATER RIGHT CLAIMS IN COMMON: See WUC 94-512.
Referenced To: 94-512 Claims Groups: Type of Reference -- Claims: X Purpose: Remarks:

.....

###STOCKWATERING: 1367 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 06/16 TO 09/30
Emery Allotment

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**********E N D O F D A T A**********

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APPENDIX 7-20

Investigation of Surface and Groundwater Systems in the SITLA Muddy Tract Area, Sevier County, Utah: Probable Hydrologic Consequences of Coal Mining in the SITLA Muddy Tract and Recommendations for Surface and Groundwater Monitoring

Investigation of Surface and Groundwater Systems in the SITLA Muddy Tract Area, Sevier County, Utah: Probable Hydrologic Consequences of Coal Mining In the SITLA Muddy Tract And Recommendations for Surface and Groundwater Monitoring

4 October 2005

Canyon Fuel Company, LLC
Sufco Mine
Salina, Utah

PETERSEN HYDROLOGIC, LLC
CONSULTANTS IN HYDROGEOLOGY

Investigation of Surface and Groundwater Systems in the SITLA Muddy Tract Area, Sevier County, Utah: Probable Hydrologic Consequences of Coal Mining In the SITLA Muddy Tract And Recommendations for Surface and Groundwater Monitoring

4 October 2005

Canyon Fuel Company, LLC
SUFCO Mine
Salina, Utah

Prepared by:

Erik C. Petersen, P.G.
Senior Hydrogeologist
Utah P.G. No. 5373615-2250

PETERSEN HYDROLOGIC
CONSULTANTS IN HYDROGEOLOGY

2695 N. 600 E.
LEHI, UTAH 84043
(801) 766-4006
PETERSEN@RELIA.NET

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1.0 INTRODUCTION

The Sufco Mine, located approximately 20 miles east of Salina, Utah, has been in operation since 1977 (Figure 1). The mine is owned and operated by Canyon Fuel Company, LLC (Canyon Fuel). Canyon Fuel is seeking to obtain a permit from the Utah Division of Oil, Gas and Mining (DOGM) to mine in the SITLA Muddy Tract, which is north of and contiguous with Sufco's existing mine permit area (Figure 2). Sufco plans to extend its existing underground mining operations northward into the SITLA Muddy Tract area. No surface facilities or mine breakouts are currently planned within this mining tract.

This report describes the probable hydrologic consequences of coal mining in the SITLA Muddy Tract and adjacent areas as required by Utah Coal Mining rule R645-301-728. This report is written in support of Chapter 7 of the Mining and Reclamation Plan (MRP) for the Sufco Mine.

Several investigations of the hydrogeology and hydrology of the Sufco Mine permit and adjacent areas have been completed prior to this investigation. The USGS, in cooperation with the BLM (Thiros and Cordy, 1991), described the hydrology and potential effects of mining in the Quitchupah and Pines Tract. Mayo and Associates (1997) described surface water and groundwater systems and mining-related hydrologic impacts in the adjacent existing SUFCO Mine permit area. The US Forest Service (1999) completed an environmental impact statement concerning the consequences of coal mining in the Pines Tract. As part of the NEPA process, the Manti La Sal National Forest in conjunction with Cirrus Ecologic Solutions, LC, completed a technical report summarizing the potential

impacts of coal mining on groundwaters and surface waters in the Muddy Tract area, which includes the SITLA portion of the tract.

2.0 METHODS OF INVESTIGATION

The hydrology and hydrogeology of the SITLA Muddy Tract and adjacent area have been evaluated based on an analysis of: 1) solute and isotopic compositions of groundwaters, 2) surface water and groundwater discharge data, 3) piezometric data, and 4) geologic information. Specific methods of investigation are described below.

Delineation of study area

The SITLA Muddy Tract study area consists of the delineated tract area and the surrounding area within approximately ½ mile of the tract on the north, west, and southern boundaries (Figure 2). The eastern margin of the study area is defined by the deeply incised Box Canyon.

Maps and reports

Existing published and unpublished hydrologic, hydrogeologic, and geologic maps were obtained and reviewed.

Collection of water quality and flow data

In conjunction with the NEPA process, baseline discharge and water-quality data were collected by Cirrus Ecological Solutions, LC in the Muddy Tract area. This included seven spring locations and two creek monitoring sites in the SITLA Muddy Tract study area. Additionally, one spring on the SITLA Muddy Tract (GW-13) has been routinely monitored as part of Sufco's regular hydrologic monitoring program.

Collection and analysis of isotopic data

Water samples from the SITLA Muddy Tract area were collected by Cirrus Ecological Solutions, LC for stable and unstable isotopic analysis. Samples for radiocarbon were analyzed using Accelerator Mass Spectrometry (AMS) by Geochron Laboratories of Cambridge, Massachusetts. Tritium analyses were performed using direct counting methods by Geochron Laboratories (with error of +/- 2.7 TU). Stable isotopic carbon-13, deuterium, and oxygen-18 analyses were also performed by Geochron Laboratories.

Groundwater samples from the surrounding Sufco Mine area were collected by Mayo and Associates, LC for isotopic analysis. These samples included springs and seeps in the adjacent Pines area, and groundwater samples from within the Sufco Mine. Radiocarbon analyses on these samples were performed by Geochron Laboratories using either Conventional methods, or by AMS. Tritium analyses for the Mayo and Associates samples were performed by the Tritium Laboratory at the University of Miami, Florida using electrolytic enrichment and low level counting methods (with error of +/- 0.1 TU). Stable

isotopic δ^2H and $\delta^{18}O$ analyses were performed by Mountain Mass Spectrometry of Evergreen, Colorado.

Groundwater mean residence times were determined using methods described by Pearson and Hanshaw (1970), Fontes (1980), and Mookes (1980).

Data compilation

Data used in this study were obtained primarily from the DOGM on-line hydrology database located at http://ogm.utah.gov/coal/edi/wqdb.htm. Some additional data were compiled from published and unpublished consulting reports.

Data analysis

Geochemical, isotopic, discharge rate, and other data were analyzed by graphical and statistical methods. Solute compositions were graphically analyzed using Stiff (1951) diagrams.

3.0 PHYSIOGRAPHIC, CLIMATIC, AND GEOLOGIC SETTING

3.1 Physiography

The SITLA Muddy Tract is situated in the Wasatch Plateau region of central Utah. The area is divided by Big Ridge, which trends in an east-westerly direction through the middle of the study area (Figure 2). The region surrounding Big Ridge consists of a gently rolling plateau that is incised by Box Canyon on the east, and by Greens and Cowboy Canyons on the north.

To the west the study area is bounded by upland, mountainous regions of the upper Muddy Creek drainage. To the south the area is bounded by the broad expanse of the upland plateau. Surface relief in the SITLA Tract and adjacent areas exceeds 1,400 feet; with elevations ranging from approximately 7,800 feet in the bottoms of the deeply incised canyons greater than 9,200 feet at the top of Big Ridge.

The upland plateau area rolls gently and is vegetated primarily with sagebrush, grasslands, and isolated stands of Ponderosa Pines. The mountainous regions are vegetated primarily with conifer and aspen forests interspersed with sagebrush and grasslands. Vegetation on the sheer rock cliff faces in the deep canyons is sparse. The narrow canyon bottoms are commonly more heavily vegetated with bushes and grasses.

3.2 Climate

Precipitation in the vicinity of the Sufco Mine area is dependent on elevation. Annual precipitation in the vicinity ranges from 12 inches in the lower elevations to more than 20 inches in the higher elevations. Localized thunderstorms occur from July through November and contribute about half of the total annual precipitation (Thiros and Cordy, 1991). Mean monthly temperatures measured at the Emery 15 SW weather station, located about seven miles southeast of the study area, are below freezing from November to March. Snow depths measured between 1945 and 1985 at the Blacks Forks snow course, located about six miles northwest of the study area, at an elevation of 9,200 feet, averaged 44 inches, with a water content of 14.4 inches (Whaley and Lytton, 1979).

Climatic conditions in the study area have varied substantially during the period of baseline monitoring at the Muddy Tract (2001 – 2004). This is illustrated in a plot of the Palmer Hydrologic Drought Index (PHDI) for Utah Region 4 (Figure 3). The PHDI is a monthly value generated by the National Climatic Data Center using a variety of hydrologic parameters that indicates wet and dry spells. The PHDI is calculated from several hydrologic parameters including precipitation, temperature, evapotranspiration, soil water recharge, soil water loss, and runoff. Consequently, it is a useful tool for evaluating the relationship between climate and groundwater and surface water discharge data. It is apparent in Figure 3 that beginning in early 2001 the region began a transition from a period of near-normal wetness to a period of extreme drought that continued until late 2003. Beginning in late 2003, the region began transitioning into a period of significantly wetter climatic conditions that continues to the present.

3.3 Geology

Four Cretaceous- to Tertiary-age bedrock formations crop out in the SITLA Muddy Tract study area. These include, in descending order, the North Horn Formation, Price River Formation, Castlegate Sandstone, and the Blackhawk Formation. Existing beneath these formations in the study area are the Star Point Sandstone, and the Masuk Member of the Mancos Shale. These geologic formations are shown on a geologic map in Figure 4. Each of these formations, and their water bearing and transmitting potential, is described briefly below.

North Horn Formation

The North Horn Formation consists of variegated (mainly shades of red) shales with minor sandstone, conglomerate, and freshwater limestone (Doelling, 1972). It is estimated to be about 1,490 feet thick in the study area, although no drilling in the area has penetrated both the upper and lower contacts of the formation. The lower contact of the formation is transitional with the underlying Price River Formation. The formation is vulnerable to mass movement, slope failures, and landslides (USFS, 2005).

Because of the pervasiveness of low-permeability shale horizons in the North Horn Formation, vertical migration of groundwater through the formation is limited. Consequently, groundwater flow in the North Horn Formation occurs primarily though fractured or shallow weathered zones, or locally through sandstone paleochannels. Groundwater recharge through the North Horn Formation to the underlying Price River Formation is likely minimal.

Price River Formation

The Price River Formation forms low-lying hills on the plateau. The formation is reported to be approximately 550 feet thick in the existing Sufco permit area. The Price River Formation consists of gray to white gritty sandstone, interbedded with shale and conglomerate deposited in a fluvial environment. The rock is resistant to weathering and forms ledges and slopes due to interbedding of resistant sandstones with less resistant shales and claystones.

While individual fluvial sandstones in the Price River Formation are capable of transmitting water, water is typically not transmitted over great vertical or horizontal distances in the formation. This is because of the lenticular geometry of the sandstone units and the interbedded low-permeability shales and claystone layers present in the formation.

Castlegate Sandstone

The Castlegate Sandstone is a cliff-forming unit that comprises the rim rocks of the deeply incised canyons in the study area. The sandstone is directly exposed or covered by only a thin soil veneer on the plateau along the rims of the canyons. The Castlegate Sandstone is discomformably overlain by the Price River Formation, which forms low lying hills on the plateau in the vicinity of Box Canyon. The Castlegate Sandstone, which is about 200 feet thick in the study and adjacent area, is predominately a massively bedded, coarse-grained sandstone with some interbeds of shale, siltstone, and conglomerate. Pervasive silica and carbonate cement makes the formation well indurated and brittle. The Castlegate Sandstone was formed in a braided fluvial depositional system.

Groundwater flow in the Castlegate Sandstone in the study area occurs primarily thorough fracture and joint systems. Although some of the sandstone rocks in the Castlegate are sufficiently permeable to transmit appreciable groundwater, groundwater flow through the pore spaces in the formation is limited. This is due primarily to the presence of mudstone drapes and bounding layers that are interbedded in the formation. Near cliff exposures and in stream bottoms, the Castlegate Sandstone becomes friable due to the dissolution of the carbonate cement and is more capable of supporting shallow, active groundwater systems.

Blackhawk Formation

The Blackhawk Formation in the study area consists of lenticular, discontinuous beds of sandstone, siltstone, mudstone, shale, and coal. In the study area, the upper 500 feet of the formation generally has massive, fine- to medium-grained, cliff-forming sandstone units. The number and thicknesses of sandstone units decreases toward the base of the unit. The lower 300 feet of the formation contains thinly-bedded sandstone and shale. The thickness of the Blackhawk Formation in the study and adjacent area is about 800 feet.

The interbedded shale and mudstone units isolate permeable sandstone paleochannels and impede groundwater movement. Consequently, groundwater flow in the formation occurs primarily through sandstone paleochannels, or occasionally through faults and fractures, while migration of groundwater across lithologies (either vertically or horizontally) is minimal.

The Blackhawk Formation is known to contain swelling clays (montmorillonite and bentonite) that tend to naturally heal mining-induced fractures in the formation.

Star Point Sandstone

The upper Star Point Sandstone consists of three massive sandstone layers, the uppermost of which intertongues with the Blackhawk Formation (Thiros and Cordy, 1991). The Star Point Sandstone is a tan to gray, fine- to medium- grained, friable, usually well-sorted sandstone containing minor thin interbeds of siltstone or claystone. The lower Star Point Sandstone is an upward prograding sequence that intertongues with the underlying Masuk Member of the

Mancos Shale. The thickness of the Star Point Sandstone is about 200 feet in the study and surrounding area.

Groundwater flow in the Star Point Sandstone in the study area and regionally occurs primarily through joints, fractures, and faults.

Mancos Shale, Masuk Member

The Masuk Member of the Mancos Shale is 500 to 600 feet thick in the Muddy Creek Canyon area. It consists of blue-gray fissile claystone or silty claystone which weathers light blue-gray to light tan. The unit contains thin calcareous sandy or silty interbeds that increase in frequency toward the top of the unit. The member forms the lower slopes of Muddy Creek Canyon and the surrounding lowlands. It forms steep, barren, easily eroded slopes with occasional ledges of more resistant fine-grained sandstone, siltstone, or sandy claystone.

The Mancos Shale has poor water-transmitting properties.

Structure

Major faulting has not been identified in the SITLA Muddy Tract area. However, small displacement faults (apparent vertical displacement of about three feet or less) and some of greater displacement have been encountered in the SUFCO mine. These faults most commonly strike approximately N10° to 15°W and are inclined nearly vertical. Joints are both parallel and normal to the fault trend. Both minor faults and joints likely exist in the SITLA Muddy Tract area (Personal communication, Mark Bunnell, 2005). Joints in the

Castlegate Sandstone are common. The surface traces of these joints are up to a 1,000 feet in length and are spaced about 16 to 33 feet apart.

Rock units in the study area strike roughly 40°E and dip 1 to 2° (about 250 feet per mile) to the northwest. Local dips of the coal seam may range up to 10 degrees in areas where underlying paleochannels caused significant differential compaction.

4.0 PRESENTATION OF DATA

Baseline hydrologic monitoring location details are listed on Table 1. Monitoring locations are shown on Figure 2. Discharge and water-quality data for springs and streams in the study area are presented in Table 2. Discharge hydrographs for springs and steams in the study area are plotted together with the PHDI in Figure 5. Water level hydrographs for wells in the study area are presented in Figure 6. Average discharge and solute compositions are listed in Table 3. Stiff diagrams depicting the average solute compositions of streams and springs are presented in Figure 7. Stable and unstable isotopic compositions of springs and in-mine locations are presented in Table 4.

4.1 Groundwater and surface-water solute compositions

Stiff diagrams depicting the solute chemical composition of groundwaters and surface waters in the SITLA Muddy Tract area are shown on Figure 7. Stiff diagrams are a useful analytical tool that allows the graphical representation of water solute compositions. The shape of the Stiff diagram is a reflection of the geochemical type, while the size of the diagram is related to the total dissolved solids concentration of the water.

Average TDS concentrations in groundwaters in the SITLA Muddy Tract study area range from about 500 to 800 mg/l (Table 3). Solute compositions of springs in the study area have bicarbonate as the dominant anion, while there are generally no dominant cations (Figure 7). TDS concentrations of surface waters in Cowboy Creek measured in the study area range from 280 to 548 mg/l (Table 2). The average TDS concentration measured at M-STR4 (534 mg/l) is somewhat greater than that measured at M-STR5 (350 mg/l) (Table 3). The lower TDS of the streams in the study area relative to the springs reflects the influence of precipitation water (rain and snowmelt) on the water in the streams, particularly during high-flow conditions. Solute compositions of Cowboy Creek water in the study area have bicarbonate as the dominant anion, while the cations are of the no-dominant-ion type.

4.2 Groundwater isotopic compositions

Carbon-14

Carbon-14 analyses were performed on four springs in the SITLA Muddy Tract study area (Table 4). Additionally, 13 carbon-14 analyses have been performed on springs in the greater Muddy Tract area and the adjacent Pines Tract area. Five carbon-14 samples from in-mine locations in the Sufco Mine in the general vicinity of the study area have also been analyzed for radiocarbon content.

Based on the known half-life of radiocarbon (approximately 5,570 years), it is possible to calculate the time since a groundwater became isolated from the surface. However,

estimating the radiocarbon age of groundwaters is not as straightforward as estimating the age of dead organic matter. This is because groundwater acquires carbon from numerous sources, each of which must be accounted for in calculating a groundwater age. These sources may include "live" carbon from biogenic production of CO_2 in the soil zone, "dead" carbon from the dissolution of carbonate minerals in the soil zone, and the addition of both "live" and "dead" carbon by other processes. In the Wasatch Plateau region, groundwater commonly acquires its carbon through the following series of chemical reactions.

The partial pressure of CO_2 in the soil zone, which is largely derived through root-zone respiration greatly exceeds that of the atmosphere. The CO_2 reacts with water to produce carbonic acid according to:

$$CO_2 + H_2O = H_2CO_3$$

Carbonic acid dissociates to produce acid (H^+) and bicarbonate according to:

$$H_2CO_3 = H^+ + HCO_3^-$$

In western coal mines, where carbonate rocks are pervasive, the acid produced from the above equation rapidly reacts with carbonate minerals, which releases additional bicarbonate and calcium and/or magnesium ions according to:

$$CaCO_{3\,(calcite)} + H^+ = Ca^{2+} + HCO_3^-$$

Or

$$CaMg(CO_3)_{2\,(dolomite)} + 2H^+ = Ca^{2+} + Mg^{2+} + 2HCO_3^-$$

Thus, groundwater that follows this evolutionary pathway will acquire 50% of its carbon from soil-zone CO_2 and 50% of its carbon from the dissolution of carbonate minerals near the recharge zone. Because soil-zone CO_2 typically has a $\delta^{13}C$ value between about –18 and –27 ‰, most groundwaters that follow this geochemical evolutionary pathway have a $\delta^{13}C$ value in the range of approximately –9 to –13 ‰ (Mayo and Associates, 1999). The fact that the $\delta^{13}C$ values for the radiocarbon samples analyzed in this investigation are in or near this range supports the conclusion that groundwaters in the study area likely follow this geochemical evolutionary pathway.

Like tritium, radiocarbon can also be used to determine whether groundwater has a component of recent anthropogenic (human induced) carbon. As a result of atmospheric thermonuclear weapons testing, atmospheric ^{14}C levels increased dramatically above background levels. ^{14}C levels reached a peak of approximately two times background levels (200 pmC) in 1963. Thus, groundwaters with ^{14}C contents significantly greater than about 50 percent modern carbon (pmC) have a component of carbon with an activity significantly greater than 100 pmC. Groundwater that acquires its carbon through the dissolution of carbonate minerals in the presence of soil-zone CO_2 should have an A_o near 50 pmC (50% "live" soil-zone carbon with ≈ 100 pmC, and 50% "dead" carbonate mineral carbon with ≈ 0 pmC). As a result of above-ground thermonuclear testing, the ^{14}C activity of the atmosphere increased significantly above 100 pmC (with the modern 100 pmC standard being based on the 1950 radiocarbon activity; Clark and Fritz, 1997). Thus, it possible for a groundwater that recharged after about 1950 to have a ^{14}C activity greater than 50 pmC. For this reason,

groundwater age dating models that do not take this into account may not correctly determine the actual residence time of the groundwater, sometimes even calculating a recharge date in the future (Mayo and Associates, 1999).

As indicated in Table 4, all springs analyzed for carbon-14 composition in the SITLA Muddy Tract and greater Muddy Tract areas have modern radiocarbon ages. In contrast, all groundwaters analyzed for radiocarbon content in the underground Sufco Mine workings in the study area are of ancient origin, with mean residence times ranging from about 4,000 to 15,000 years (Table 4).

Most springs in the adjacent Pines area also have modern radiocarbon ages. However, springs Pines 206 and Pines 303 have radiocarbon ages of 3,000 and 4,000 years, respectively. These springs are distinct from most other springs in the area in that they are believed to discharge from groundwater systems with longer flow paths and perhaps deeper circulation depths than the other springs in the area. Mayo and Associates (1999) indicated that these springs likely recharge along the eastern margins of the Pines plateau escarpment migrate down-gradient beneath the Pines area to discharge locations in Box Canyon. This conclusion was based on isotopic compositions, discharge locations, and discharge characteristics. Springs of this type have not been identified in the Muddy Tract area.

It should be noted that the radiocarbon ages determined for groundwaters in the SITLA Muddy Tract area in this investigation are substantially different from those reported in the Cirrus Ecological Solutions, LC Technical Report for the U.S. Forest Service. In all but one

instance, the groundwater ages reported by Cirrus are much older than those determined in this investigation. This is because the carbon history and geochemical evolutionary pathways of groundwaters in the study area were apparently not incorporated into the calculation of groundwater ages in the Cirrus investigation (i.e., all the carbon in the water was apparently assumed to have been derived from "live" sources, while not considering the dilution of ^{14}C from "dead" sources in the recharge zone). Consequently, while the groundwater ages (uncorrected) of springs in the Muddy Tract were determined to range from 0 to 3,830 years in the Cirrus Technical Report, all spring waters in the Muddy Tract (as calculated by Petersen Hydrologic) were determined in this investigation to be modern in origin.

4.3 Tritium (^{3}H)

Tritium is a radioactive isotope of hydrogen that is commonly used in groundwater investigations to differentiate between groundwaters that recharged prior to or after the advent of atmospheric thermonuclear weapons testing. Tritium, whose half-life is 12.43 years, forms naturally in the upper stratosphere by the interaction of ^{14}N with cosmic ray neutrons. Tritium is rapidly incorporated into water molecules and is removed from the atmosphere by precipitation. As several decades have now past since the cessation of atmospheric thermonuclear weapons testing, the tritium concentrations in the atmosphere have now declined to near natural background levels. In continental regions, current tritium concentrations are on the order of 5 – 15 TU (Clark and Fritz, 1997). Similar concentrations have recently been measured in streams and lakes in the Wasatch Plateau coal district of central Utah.

Tritium has been widely utilized in the hydrogeologic community using both qualitative and quantitative dating approaches (Clark and Fritz, 1997). However, in this investigation, tritium has been used only as a qualitative tool to determine whether groundwater has a component that recharged after the onset of above-ground thermonuclear weapons nuclear testing. No attempt to calculate an absolute "age" of groundwater has been attempted using tritium content. This is primarily because of uncertainties determining the tritium input level of the recharge water source(s).

Tritium concentrations in the four spring samples analyzed for tritium content in the SITLA Muddy Tract study area range from 7.7 to 12.7 TU. These tritium values indicate that these springs discharge from groundwater systems that have received a significant component of recharge within the past approximately 50 years. With the exception of spring M-SP18 where tritium was reportedly measured at -0.07 TU, tritium concentrations in the springs in the greater Muddy Tract area, which range from 5 to 14.6 TU, also indicate a significant modern recharge component.

The modern radiocarbon age and anthropogenic ^{14}C content in spring M-SP18 (Table 4) considered together with the absence of tritium, may suggest a mean groundwater residence time on the order of about 50 years. However, because the tritium analysis for this sample was performed using direct counting methods (with an error range of +/- 2.7 TU), the interpretation of the measured low tritium result is somewhat ambiguous.

Four of the seven springs in the adjacent Pines area also have tritium contents indicative of modern recharge. Three other springs in the Pines area have tritium concentrations less than 1 TU. As discussed previously, some of the springs in the Pines area are believed to have considerably longer groundwater flow paths and, consequently, greater mean residence times. However, because of the geometry of the surface topography, and the hydrogeologic characteristics of the geologic formations exposed at the surface in the SITLA Muddy Tract area, springs discharging from such groundwater systems are not anticipated nor have they been identified in the SITLA Muddy Tract area.

5.0 Description of Groundwater Systems

Groundwater in the SITLA Muddy Tract study area naturally discharges as springs and seeps from the North Horn Formation and Price River Formation. Discharge hydrographs for springs in the SITLA Muddy Tract and adjacent area are presented in Figure 5. Water level hydrographs for wells in the study area are presented in Figure 6. Groundwater has been encountered in the Sufco Mine in moderate quantities in sandstone channels in the mine roof. These groundwater inflows are commonly short-lived and do not exhibit seasonal or climatic variability in discharge rates (Personal communication, Mark Bunnell, 2005). Groundwater inflows into the mine through the mine floor are not common.

Groundwater systems in the Sufco Mine are associated with one of two fundamental types of groundwater flow regime. These two regimes are described by a fairly simple conceptual model that includes "active" and "inactive" groundwater flow regimes (Mayo et. al., 2003). The operation of these two regimes is fundamentally a consequence of the vertical and

horizontal heterogeneity and discontinuity rock strata in the region. A discussion of the active- and inactive-zone groundwater regimes in the SITLA Muddy Tract study area is presented below.

5.1 Active-Zone Groundwater Systems

Active zone groundwater systems are characterized as having good hydraulic communication with groundwater or surface-water recharge sources and having active groundwater flow from recharge to discharge areas. Thus, they are dependent on annual recharge events and are affected by short-term climatic variability. The elevated tritium concentrations (which indicate groundwaters that are less than about 50 years old) and the modern radiocarbon ages of spring waters in the study area indicate these springs discharge from active-zone groundwater systems (Table 4).

Discharge hydrographs for springs in the study area are presented in Figure 5. It is apparent in Figure 5 and Table 2 that most springs exhibit seasonal variations in discharge rate and also respond to short-term climatic variability. This supports the conclusion that these springs discharge from active-zone groundwater systems, and are not related to the deep, inactive-zone groundwater systems that are encountered in the underground workings of the Sufco coal mine (discussed below).

The flow records of two springs, M-SP10 and M-SP59, indicate these springs possibly discharge groundwater in a slightly different manner than other SITLA Tract springs. Spring M-SP10, which discharges from the North Horn Formation on Big Ridge, shows a response

to climatic variability, although the response to the annual snowmelt event is muted (Figure 5). Discharge measured at the spring during 2001 - 2004 is meager, ranging from 0.22 to 0.53 gpm. The muted seasonal response is likely a result of the conditions at the man-made spring collection system. A large storage capacity relative to the spring discharge rate in the groundwater system that supports the spring may also buffer the discharge from this spring. Based on the tritium and radiocarbon contents measured at M-SP10, it is evident that the spring discharges from an active-zone groundwater system.

Spring M-SP59 also discharges from the North Horn Formation on Big Ridge. Although the data are limited, a general response in spring discharge rates to changing climatic conditions is evident (Figure 5). However, a rapid response to the annual snowmelt event is not apparent. During both 2002 and 2003, discharge measured at the spring in May was less than that measured in the following September. It is possible that these four measurements indicate a longer travel time from recharge areas to discharge areas than is common at other nearby springs. It is also possible that the observed discharge variability could be related to seasonal changes in soil moisture, air temperature, or other climatic factors, combined with difficulties measuring meager (0- 0.69 gpm) diffuse flow on the relatively flat topography at the spring.

Active-zone groundwater systems exist in the study area primarily where 1) there is adequate precipitation to facilitate groundwater recharge, 2) there is sufficient storage capacity in the near surface soils, porous rock units, and/or shallow, fractured bedrock horizons to sustain groundwater discharge for significant periods, and 3) there is a competent, impermeable

perching layer present in the subsurface that prohibits the downward migration of groundwater. Downward migration of active-zone groundwaters into deeper horizons is prevented by the presence of low permeability bedrock horizons that are widely present in the study area, creating perched groundwater conditions. The perched groundwater systems, being constrained largely by surface topography, are usually of limited aerial extent. (i.e., groundwater discharge locations are commonly near recharge locations).

5.2 Inactive-Zone Groundwater Systems

Inactive-zone groundwater systems are characterized by old groundwater (commonly from about 2,000 to 19,000 years) and a general lack of hydraulic communication with the ground surface or active recharge sources (Mayo et. al., 2003). This condition is the result of the lack of recharge potential to deeper groundwater systems, either vertically or horizontally, because of 1) the abundance of low-permeability rocks in the rock sequence, and 2) the lenticular, discontinuous nature of the interbedded more permeable horizons that limits the extent of potential groundwater movement. Inactive-zone groundwater systems are not influenced by either annual recharge events or by short-term climatic variability. This is evidenced by the lack of seasonal or climatic discharge responses of groundwater inflows into the Sufco Mine. Rather, groundwater inflows encountered in the Sufco Mine typically drain rapidly after first being encountered (Personal communication, Mark Bunnell, 2005). All groundwater inflows into the Sufco Mine have been from inactive-zone systems, as evidenced by the radiocarbon ages of the waters and the lack of tritium in in-mine groundwaters (Table 4), and the lack of seasonal or climatic response in discharge rates.

Groundwater inflows into the Sufco Mine in the vicinity of the study area have had groundwater mean residence times ranging from about 4,000 years to 15,000 years (Table 4).

Inactive-zone groundwaters in the Blackhawk Formation in the study area are not part of a regionally continuous aquifer. Groundwater in the inactive zone occurs primarily in isolated partitions created by the discontinuous nature of bedrock hydrostratigraphic horizons. Because these partitions are isolated both vertically and horizontally by low-permeable strata, lateral migration of groundwater in the deep Blackhawk Formation is limited. Mining operations in the Sufco Mine have encountered groundwater in some portions of the mine, while other nearby locations have been dry. This condition demonstrates the limited groundwater recharge potential and the limited potential for lateral groundwater migration in the lenticular rock bodies of the Blackhawk Formation.

Water level hydrographs for the two monitoring wells located in the SITLA Muddy Tract study area are presented in Figure 6. These wells are completed in the Blackhawk Formation near the mined coal seam. It is evident from these hydrographs that deep, inactive groundwater systems monitored in these wells do not respond to seasonal recharge or to climatic variability. The causes for the gradual declines in water levels in both of these wells are unknown. It is possible that the subtle declines observed in wells 89-18-1 and 01-8-1 are a result of mining activities in surrounding areas, although the distances of these wells from the nearest mining activity are substantial.

In the general sense, groundwater flow in the Blackhawk Formation is in the down-dip direction, with local flow directions being largely constrained by the geometry of the sinusoidal sandstone paleochannels through which groundwater flows. Consequently, because of the discontinuous isolated nature of saturated strata in the mine, it is not possible to create a meaningful potentiometric surface map of the Blackhawk Formation in the vicinity of the Sufco Mine.

6.0 Determination of Probable Hydrologic Consequences

The following section describes the Determination of Probable Hydrologic Consequences of Coal Mining in the SITLA Muddy Tract.

728.100 Quality and quantity of surface water and groundwater under seasonal flow conditions

Groundwaters and surface waters in the SITLA Muddy Tract area are generally of the no-dominant-cation – bicarbonate chemical type (Tables 2 and 3). Average TDS concentrations of spring waters sampled during baseline monitoring range from approximately 500 to 800 mg/l (Table 3). Stream waters sampled during baseline monitoring have average TDS concentrations ranging from about 350 to 420 mg/l (Table 3). The pH values for springs and streams in the SITLA Muddy Tract area range from 6.5 to 8.87 (Table 2).

728.200 Baseline hydrologic information

Spring and seep surveys were conducted at the SITLA Muddy Tract during 2001. As part of the spring and seep surveys, groundwater and surface-water discharge rates and field water-quality parameters, including water temperature, pH, specific conductivity, were measured.

Baseline monitoring of selected springs and streams in the SITLA Muddy Tract and surrounding area continued during both high-flow and low-flow conditions from 2002 to 2004. The results of baseline monitoring at the SITLA Muddy Tract area are listed in Tables 2, 3, and 4.

728.310 Whether adverse impacts may occur to the hydrologic balance

The hydrologic balance is the sum of the flow interactions between surface waters and groundwaters and between various groundwater flow systems. Coal mining in the SITLA Muddy Tract will likely not result in significant adverse impacts to the hydrologic balance.

Mine workings in the SITLA Muddy Tract will likely intercept primarily ancient, perched groundwater systems in sandstone channels in the mine roof. Although it is never possible to predict with certainty the nature and magnitude of groundwater inflows that will be intercepted in a new coal mining area, based on the similarity of the geologic and hydrogeologic conditions at the SITLA Muddy Tract and the existing Sufco mine areas, it is assumed that groundwater inflows in the SITLA Muddy Tract will likely be short lived and of magnitudes similar to those encountered previously in the Sufco Mine. Mining operations will dewater these perched groundwater systems. However, because these systems are not in

good hydraulic communication with the ground surface or shallow overlying active-zone groundwater systems, dewatering of the deep perched systems will likely have no impact on overlying groundwater or surface water regimes.

As discussed previously, inactive-zone groundwater systems in the Blackhawk Formation occur in isolated partitions that are not in good hydraulic communication with the land surface or shallow overlying active-zone groundwater systems that support springs and seeps and provide baseflow to streams. Therefore, it is likely that groundwater that will be intercepted in the Blackhawk Formation will be groundwater being removed from storage. Because inactive-zone groundwater systems are not in hydraulic communication with the land surface or shallow, active-zone groundwater systems, groundwater being removed from the Blackhawk Formation is likely not being replenished by recharge from adjacent or overlying groundwater systems or from infiltration of surface waters.

At any coal mine, interruption and deformation of strata above longwall-mined areas has the potential to alter pre-mining groundwater flow conditions. The potential for this impact to occur in the SITLA Muddy Tract is minimal. Rock mechanics equations have been developed that predict the height to which subsidence fractures will likely extend above areas subsided by coal mines. In western coal mines, it is estimated that subsidence fractures commonly propagate upward approximately 30 times the height of the extracted coal (Kadnuck, 1994). Assuming a mining thickness of 10 feet, it would be anticipated that fracturing would extend upward for a distance of approximately 300 feet. Above this height, rock strata tend to flex rather than fracture. Differential ground subsidence can also result in

the formation of tension cracks at the land surface, particularly above abutments, longwall panel ends, and longwall gate roads. These fractures commonly extend less than about 50 feet below the land surface. Thus, in the SITLA Muddy Tract area, a sequence of several hundred feet of unfractured rocks will likely exist between the bottom of the shallow tension cracks near the surface and the top of the fractured zone above longwall mined regions. This sequence of low-permeability rock prevents the downward migration of active-zone groundwaters into the deeper subsurface. The presence of hydrophyllic clays in the fine-grained rocks of the SITLA Muddy Tract effectively seal fractures that may form in the subsurface, preventing the downward migration of groundwater.

Where tension cracks at the surface do form, they can divert shallow, active-zone groundwaters and cause minor changes to groundwater discharge locations. Spring discharge locations could potentially be moved a short distance down gradient as a result of groundwater flow path alterations or fracturing at bedrock spring discharge locations. However, because vertical migration of groundwaters downward into deeper horizons is impeded by low-permeability perching layers in the shallow subsurface, no loss of groundwater from a groundwater basin is anticipated. Thus, the potential impacts to groundwater systems resulting from tension cracking at the surface is considered minimal.

It should be noted that discharge from a spring located on the adjacent Pines area of the Sufco Mine permit area appears to have been impacted by mining operations at the Sufco Mine. This spring (Pines 303) discharges from a sandstone channel that overlies the mined coal seam by only 100 feet. The decreased discharge from this spring is likely attributable to

the interception of the sandstone paleochannel that supports the spring by the underground Sufco Mine workings. It should be noted that the potential for this occurrence was discussed in the Pines Tract EIS (1999) prior to coal mining in the Pines Tract. Because there are no springs that discharge from sandstone channels in the Blackhawk Formation stratigraphically near the coal seams in the SITLA Muddy Tract area, this potential impact to springs should not occur in the SITLA Muddy Tract area.

Tension cracking of the substrate of a perennial stream has the potential to temporarily divert surface waters. The potential for loss of surface waters to deeper groundwater systems through downward migration of water through subsidence fractures in the SITLA Muddy Tract area is considered minimal. This is because, as discussed previously, the perching layers underlying perennial streams would not likely be compromised as a result of tension fracturing. This is the case for two reasons. First, the hydraulic conductivites of underlying bedrock formations are low and permeable horizons are lenticular and discontinuous. Thus, the underlying bedrock is not capable of accepting appreciable quantities of stream leakage, and rejected recharge occurs. Second, the presence of swelling clays in the bedrock formations in the SITLA Muddy Tract area causes the rapid healing of tension cracks in fine-grained bedrock lithologies. Surface cracks in stream substrates that occur in more brittle sandstones would be filled with sediment transported by the stream. Because, as discussed previously, active-zone groundwater systems will likely not be impacted by subsidence fracturing, the potential for diminution of baseflow in perennial streams is considered remote. Thus, the overall potential for detrimental effects resulting from subsidence fracturing beneath perennial streams in the SITLA Muddy Tract area is believed to be low.

A brief discussion of the recent undermining of the East Fork of Box Canyon in the Pines area (located about 1 mile east of the SITLA Muddy Tract) is useful to demonstrate the likelihood and nature of potential of impacts to groundwater and surface water systems in the SITLA Muddy Tract with the potential undermining of Cowboy Creek.

The East Fork of Box Canyon Creek was undermined using full-extraction longwall mining techniques starting on approximately 13 November 2003. Undermining of the drainage (by the 3 Left Panel) continued until approximately 5 January 2004. Rigorous monitoring of the stream and nearby springs was performed in the drainage before, during, and after the undermining took place. As longwall mining progressed beneath the drainage, it was noted that discharge in the creek initially increased substantially above baseline conditions. This increase was attributed to 1) compression of the aquifer matrix due to temporary changes in the stress field associated with the passing of the longwall face beneath the canyon, and 2) increases to the hydraulic conductivity of the rock strata as a result of subsidence-induced fracturing. Within a short period of time, discharge rates in the creek returned to near normal levels. Based on discharge measurements in the stream above and below the subsided area both during and after its undermining, it was determined that there was little or no loss of water from the drainage as a result of the longwall undermining (Petersen Hydrologic, LLC, 2005). However, although no water was lost from the drainage, discharge temporarily ceased in a few sections of the stream channel above longwall-mined areas. These dry reaches occurred where thin-bedded sandstone strata buckled in the uppermost channel substrate as a result of subsidence-induced stresses. (Buckling of deeper strata is not

anticipated due to the confining pressures of the overlying rocks.) It was apparent that surface water continued to flow in the shallow subsurface beneath loose or fractured rocks in these buckled areas, and discharge in the stream channel generally reemerged within a few tens of feet (up to a few hundred feet in the longest dry reach) below the start of the dry reach. In the fall of 2004, the stream channel was rehabilitated by removing loose rock and emplacing bentonite powder in subsidence cracks in the dry reaches. These repairs, together with natural healing of the stream channel, were successful and resulted in a stream channel with continuous surface flow overlying the subsided area. When the stream channel was monitored in the spring of 2005, stream flow in the creek above the longwall mined area was continuous, and discharge conditions in the creek were very similar to the pre-mined conditions.

Based on pre-mining monitoring of the East Fork, it was determined that the undermined section of the creek was a primarily a gaining stream reach. Gains in the stream channel were observed to originate from both Castlegate spring discharges on the lower canyon walls and from diffuse seepage near or directly into the creek. The combined discharge from the Castlegate Sandstone springs along the lower canyon walls before undermining was about 3 gpm (Petersen Hydrologic, LLC, 2005). After the East Fork was subsided, discharge from some of the Castlegate Sandstone springs in the canyon ceased. Concurrent with these springs going dry, additional seepage to the stream channel and canyon walls below the spring areas was noted. Stream discharge measurements in the stream reaches below the dried-up spring areas continued to indicate that the stream gained appreciably in these reaches. Consequently, it was determined that, as anticipated, the discharge from the springs

was not lost from the basin, but rather, was diverted to locations lower (several tens of feet) in the canyon. The moving of the spring discharge locations was likely a result of the interception of the spring discharge by subsidence fractures.

It should be noted that the hydrogeologic conditions in Cowboy Creek are different from those in the East Fork of Box Canyon in two significant ways. First, the thickness of the overburden beneath Cowboy Creek is several hundred feet greater than that in the East Fork of Box Canyon. Second, while the stream substrate in the East Fork of Box Canyon exists predominantly on exposed bedrock of the Castlegate Sandstone or upper Blackhawk Formation, the stream substrate in Cowboy Creek in the SITLA Muddy Tract exists on the Price River and North Horn Formations. These formations contain abundant low-permeability units that would significantly impede the potential for downward migration of surface water into underlying geologic formations. Additionally, much of the stream channel in this area is underlain by considerable thicknesses of alluvial material. Where the stream is underlain by unconsolidated sediments, the effects of subsidence cracking in the drainage would be considerably less than where the stream channel exists on bare bedrock. Specifically, "fracturing" of unconsolidated sediments in the stream channel would heal very rapidly as the loose, wet sediments collapse the fracture. Under these conditions, the hydraulic properties of the alluvium would assume essentially pre-mining characteristics very rapidly. Given the abundance of fine-grained sediments in the alluvium derived from the North Horn and Price River Formations, the alluvial material should effectively seal tension cracks that could occur beneath the alluvial sediments in the stream drainage. For these reasons, it is considered likely that longwall undermining of Cowboy Creek in the

SITLA Muddy Tract could be carried out with minimal impacts to the surface-water drainage.

728.320 Whether acid-forming or toxic-forming materials are present that could result in the contamination of surface water or groundwater supplies

Acid- and toxic-forming materials in soil and rock disturbed by mining have to potential to impact groundwater and surface water quality. Mine discharge water from the Sufco Mine is routinely monitored for indicators of increased acidity (iron, manganese, and pH) and toxic materials. Although the concentrations of iron in mine discharge water are occasionally elevated relative to springs in the region, mine discharge waters rarely exceed permitted discharge limits.

No new topsoil or waste rock piles are planned as a consequence of mining in the SITLA Muddy Tract and no impact from acid- or toxic-forming materials is anticipated.

With the exception of modest quantities of pyrite or similar sulfide minerals, no significant quantities of any acid- or toxic-forming materials are believed to be present in the SITLA Muddy Tract area. Iron pyrite and other iron sulfide minerals are common in western coal mines. The oxidation of pyrite, when exposed to water and oxygen, releases H^+ ions (acid) into the mine water. The acid produced from pyrite oxidation temporarily lowers the pH of the water. However, the acid produced from pyrite oxidation is rapidly consumed by reactions with the carbonate minerals which are pervasive in the rocks associated with the

coal fields of the Wasatch Plateau. Thus, acid mine discharge in mine discharge water does not occur. The iron released into the water from pyrite oxidation is readily precipitated as iron-hydroxide when it contacts oxygenated water.

Thus, the potential for acid-forming or toxic-forming materials to result in contamination of surface-water or groundwater supplies is believed to be negligible.

728.331 What impact the proposed coal mining and reclamation operation will have on sediment yield from the disturbed areas

The sediment load of streams can be impacted by increased sediment yield from disturbed areas and from land that has undergone subsidence. Canyon Fuel Company has implemented a rigorous sediment control program that is designed to minimize the sediment yield from disturbed areas. This includes the use of sediment control fences, re-vegetation of previously disturbed areas, and the diversion of surface waters around disturbed areas. Runoff from disturbed areas is collected near its source and diverted into sediment control ponds for retention and settlement of suspended solids before it is discharged to natural drainages. Because the SITLA Muddy Tract will be accessed through the existing Sufco Mine, the potential for additional impacts resulting from coal mining in the SITLA Muddy Tract is minimal.

Where differential subsidence of the land surface occurs in stream drainages, there is the potential for the temporary increase of sediment yield in these drainages. This potential

impact is primarily the result of subsidence induced gradient changes along areas of differential subsidence. However, this effect is generally expected to be short lived. This is because the channel substrate in areas of increased stream gradients is down-cut while sediment is being deposited in areas of decreased stream gradients and the stream gradually returns to equilibrium with its channel substrate.

728.332 What impact the proposed coal mining and reclamation operation will have on acidity, total suspended and dissolved solids and other important water quality parameters of local impact

As discussed previously, impacts to the active-zone groundwater systems that support springs and seeps and provide baseflow to streams in the SITLA Muddy Tract and adjacent area are not anticipated. Thus, detrimental impacts to important water quality parameters such as acidity, total suspended solids, and total dissolved solids in creeks and springs in the SITLA Muddy Tract area are generally considered unlikely.

It should be noted that in the event that subsidence fracturing of bedrock horizons beneath a stream or near the discharge location of a spring occurs, there is a potential of a modest, temporary increase in TDS concentration. This increase could result if the bedrock horizons fractured contained pyrite or other sulfide minerals. When subsidence-fractured rock surfaces expose pyrite in an aqueous, oxygen-rich environment, sulfide mineral oxidation may occur. Under such circumstances, some solutes, primarily sulfate, bicarbonate, calcium, and magnesium can increase. Such reactions typically do not occur in deep groundwater

systems because of the lack of available oxygen in these systems. Because the pyrite is consumed by the oxidation reaction, the reaction ceases when all the freshly exposed pyrite is oxidized.

Such an occurrence was noted in a short reach of the East Fork of Box Canyon after the stream was undermined in 2003-2004 (Petersen Hydrologic, 2004). In that instance, the TDS concentration of water increased in the creek by 66 mg/l from 325 to 374 mg/l. When the stream reach was again visited in the spring of 2005, it was apparent that the oxidation reaction in the creek had ceased. The iron hydroxide deposits that had precipitated in the stream channel as a result of pyrite oxidation had been scoured from the channel and conditions in the stream appeared normal.

Fuels, greases, and oils stored and used in the Sufco Mine permit area. There is the potential for spillage of these substances during equipment maintenance and operations, during filling of storage tanks and vehicle tanks, and from leakage from potentially leaking storage tanks. However, because the SITLA Muddy Tract will be accessed through the existing Sufco Mine, the potential for releases of these materials as a result of mining activities in the SITLA Muddy Tract above is considered minimal.

The discharge of Sufco Mine water to surface water drainages will have an impact on the water quality of receiving waters. The nature and magnitude of this impact is related to the relative quality of the receiving water and the mine discharge water. If the mine discharge water is of poorer quality than the receiving water, then the quality of the receiving water

will be degraded proportionally. If the mine discharge water is of better quality than the receiving water, the quality of the receiving water will be improved. Plots of discharge rates and TDS concentrations of Sufco Mine discharge water since October 1999 are plotted in Figure 8. During this period the average TDS concentration of the mine discharge water was about 760 mg/l, while the average discharge rate was about 2,700 gpm (DOGM, 2005). Historically, the discharge water from the Sufco Mine has generally been of relatively good quality and has usually met the beneficial use standards of the receiving water (DOGM, 2005).

Based on the fact that the geologic conditions at the SITLA Muddy Tract are generally similar to those in the adjacent existing Sufco Mine permit area, it is anticipated that the character of groundwater inflows in terms of both quality and quantity will likely be similar to those that occur in the existing Sufco Mine. Consequently, no impacts to important water quality parameters above those that may occur at the existing Sufco Mine area are anticipated as a result of mining in the SITLA Muddy Tract. The discharge of Sufco Mine water will be regulated under a UPDES permit issued from the Utah Division of Water Quality.

728.333 What impact the proposed coal mining and reclamation operation will have on flooding or streamflow alteration

It is anticipated that discharge rates from the Sufco Mine during mining in the SITLA Muddy Tract will likely be of similar magnitude to that currently occurring. Thus, no significant increase to the flooding or streamflow alteration potential of Sufco Mine discharge water to

Quitchupah Creek is anticipated above that currently occurring as a result of mining in the SITLA Muddy Tract.

728.334 What impact the proposed coal mining and reclamation operation will have on groundwater and surface-water availability

It has been demonstrated that the active-zone groundwater systems that support springs and seeps and provide baseflow to streams in the SITLA Muddy Tract are isolated from the inactive-zone groundwater systems that will be encountered during mining in the SITLA Muddy Tract. Therefore, the availability of these groundwaters and surface waters will not be impacted.

Discharge rates from the Sufco Mine are plotted in Figure 8. It is evident in Figure 8 that mine discharge from late 1999 to late 2001 was relatively stable at about 2,200 gpm. In late 2001 and early 2002 the handling of mine water underground was changed and mine water was retained underground as portions of the mine workings were flooded. Since the pumping of significant quantities of water from the mine resumed in early 2002, discharge rates have averaged about 3,250 gpm (DOGM, 2005). Future discharge rates from the Sufco Mine will also likely fluctuate as mined-out areas of the Sufco Mine are allowed to flood.

It is significant to note that over the many years that pumping of in-active-zone groundwater intercepted in the Sufco Mine has occurred, significant impacts to water quality or quantity in active-zone groundwater systems overlying mined areas have not occurred. This condition demonstrates the hydraulic disconnect between the deep, Blackhawk Formation

groundwater systems encountered in the Sufco Mine and the shallow, perched groundwater systems that support most springs and provide baseflow to streams in the Sufco Mine area.

It should be noted that discharge in spring Pines 303, which discharges from a sandstone channel only 100 feet above the mined coal seam in lower Box Canyon, was diminished coincident with mining in the Sufco Mine. This condition is likely related to the interception and draining of the sandstone channel that supports Pines 303 by the Sufco Mine workings. The potential for this occurrence was discussed in the Pines Tract EIS (1999). Because there are no springs that discharge from sandstone channels in the Blackhawk Formation stratigraphically near the coal seams in the SITLA Muddy Tract area, this potential impact to springs should not occur in the SITLA Muddy Tract area.

Current mining operations have made available several hundreds of gallons per minute of mine discharge water that has previously been unavailable for use. It is anticipated that as mining progresses in the SITLA Muddy Tract, additional groundwater inflows into the mine workings will occur and discharge of groundwater to the Quitchupah Creek surface-water drainage will likely occur. It should be noted that the discharge of mine water at current discharge rates would likely not be sustained over a long period of time. Historically, discharge rates from individual inactive-zone mine inflows decline over time. This is because the inactive-zone groundwater is being removed from storage and is not being actively recharged. It should not be assumed that the groundwater discharging from the mine will be a long-term source of water.

728.350 Whether the underground coal mining and reclamation activities may result in contamination, diminution or interruption of State-appropriated water

It has been demonstrated that the active-zone groundwater systems that support springs and seeps and provide baseflow to perennial streams in the SITLA Muddy Tract area are isolated from the inactive-zone groundwater systems that will be encountered during mining activities and the potential for contamination, diminution, or interruption of these groundwater systems is remote. Inactive-zone groundwater systems that will likely be encountered during mining in the SITLA Muddy Tract include primarily perched systems associated with sandstone channels in the Blackhawk Formation beneath the SITLA Muddy Tract. While deep, inactive-zone Blackhawk Formation groundwater systems will be intercepted and dewatered during mining activities, there are no known uses or State appropriations of these waters.

7.0 Recommended Monitoring Plan

The recommended monitoring plan for groundwater and surface-water in the SITLA Muddy Tract is presented below. This recommended monitoring plan is designed to verify that mining-related activities do not adversely impact groundwater or surface-water resources in the tract area. Additionally, the plan is designed to collect data to document that the active-zone springs and streams at the surface in the SITLA Muddy Tract area operate independently of the deep, inactive-zone groundwater systems encountered in the Sufco

Mine. The proposed monitoring sites are shown in Figure 9. The monitoring plan is summarized in Tables 5, 6, 7, and 8, and is described below.

Springs

We recommend the monitoring of seven springs in the SITLA Muddy Tract and adjacent area. This includes four springs that discharge from the Price River Formation, and three springs that discharge from the North Horn Formation.

Springs M-SP53 and GW-13 discharge from Big Ridge in the middle of the SITLA Muddy Tract. Discharge from spring M-SP53 is collected in a buried spring box and discharged to the surface through a metal pipe. Spring GW-13 discharges naturally from the North Horn Formation near the contact with the underlying Price River Formations on the north slope of Big Ridge.

Springs M-SP01 and M-SP02 discharge from the Price River Formation in Greens Hollow. Spring M-SP01 is a developed spring that supplies water to a seasonally inhabited cabin. Groundwater is piped from a spring box at the discharge location to the nearby cabin. Spring M-SP02 discharges near the stream channel in the bottom of Greens Hollow. The discharge from this spring is collected in a spring box and piped a short distance for use as stock water.

Springs M-SP08 and M-SP39 discharge in the upper Cowboy Creek drainage. Spring M-SP08, which discharges from the North Horn Formation, is developed for stock watering use. Discharge from the spring is piped to a nearby watering trough. Spring M-SP39, which

discharges near the banks of Cowboy Creek in the Price River Formation, is also a developed spring which has been equipped with automated monitoring equipment.

Spring M-SP18 is located about 1.5 miles north of the SITLA Muddy Tract in the Price River Formation. The spring is located in an unnamed tributary to Muddy Creek that is north of the Greens Canyon drainage. Discharge from the spring is collected in a spring box and piped several hundred feet down the canyon to stock watering troughs. It is very unlikely that mining activities in the SITLA Muddy Tract could impact water quality or discharge rates at the spring. However, monitoring of this spring is recommended to demonstrate that mining-related impacts do not occur, and to collect background data from a spring beyond the extent of potential mining-related impacts.

Both discharge and laboratory solute water-quality data from the springs proposed for monitoring have been collected during baseline monitoring activities from 2001 – 2004. Because the baseline discharge and water quality characteristics of these springs have been adequately characterized, we do not recommend monitoring for laboratory water quality parameters at these springs. We do recommend routine monitoring of these springs for discharge and field water-quality parameters.

Streams

We recommend the regular monitoring of Cowboy Creek at site M-STR04. This site is located on Cowboy Creek downstream of the SITLA Muddy Tract. As surface waters from a large portion of the SITLA Muddy Tract area drain into Cowboy Creek, monitoring of discharge rates at this site can provide useful data on potential impacts to discharge rates in

the Cowboy Creek drainage above M-STR04. Similarly, potential cumulative impacts to water quality in the drainage can be evaluated at this site. Thus, we also recommend the regular monitoring of M-STR04 for field water-quality parameters.

Wells

We recommend the quarterly monitoring of water levels in both of the monitoring wells in the SITLA Muddy Tract area. These include 01-8-1 and 89-18-1, both of which are screened in the lower Blackhawk Formation. Potentiometric data from these wells will assist in characterizing potential impacts to inactive-zone groundwater systems in the vicinity of proposed mine workings in the SITLA Muddy Tract. It should be noted that both of these wells may become inoperable and cease to provide meaningful data as mining in the SITLA Muddy Tract approaches these wells.

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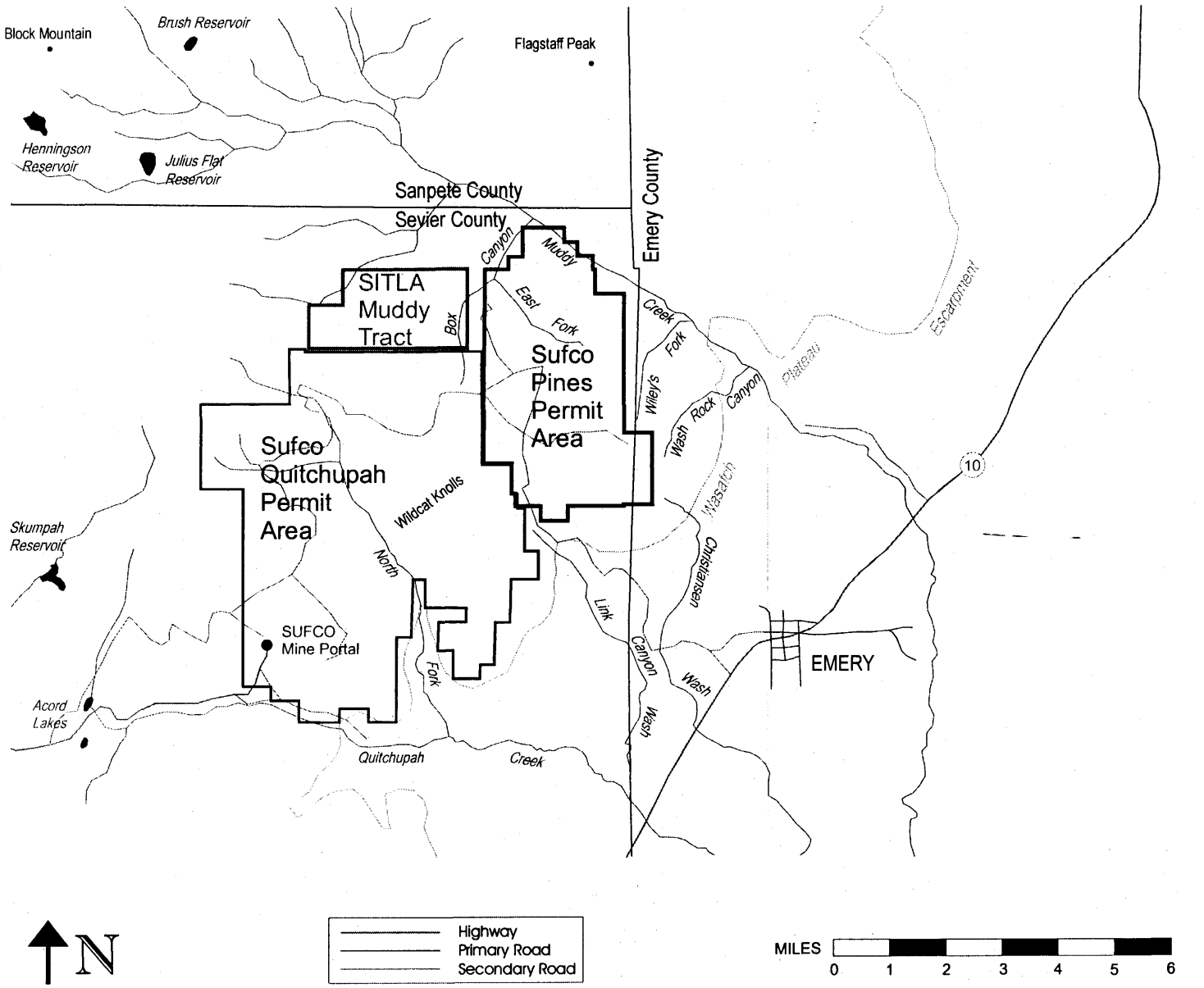
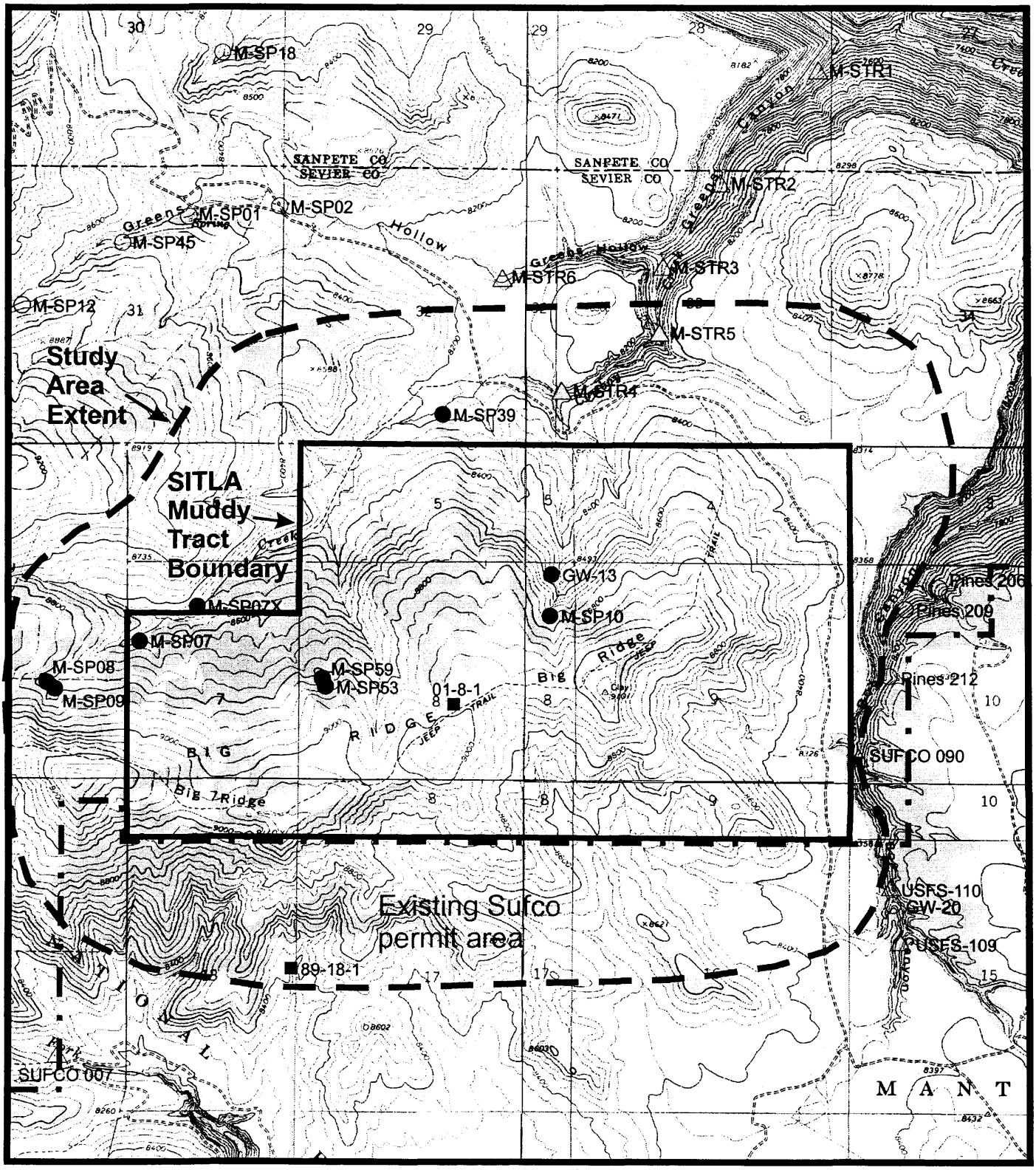


Mayo and Associates
figure1.cdr 11 Jul 99

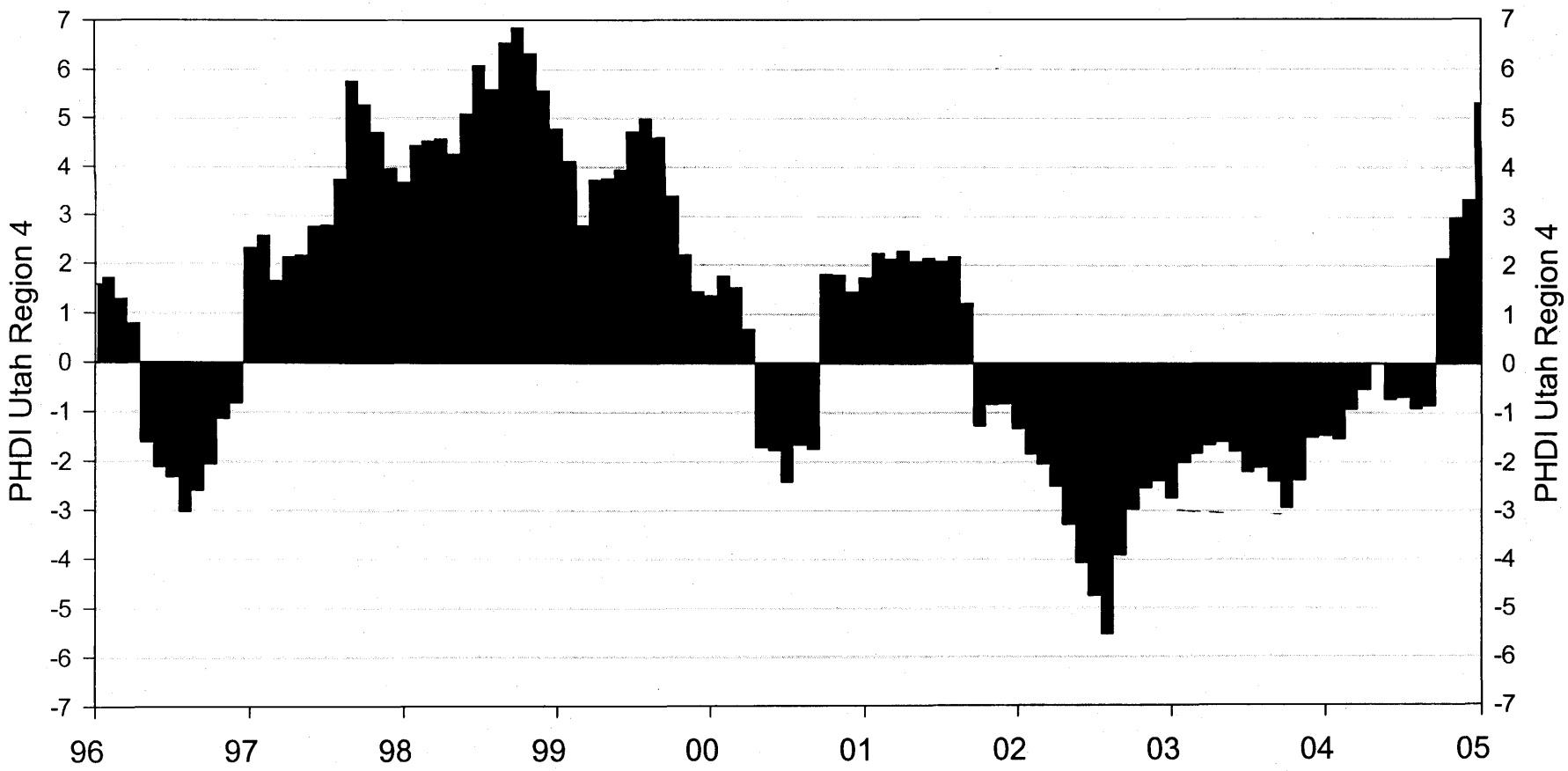
Figure 1 Location of the SITLA Muddy Tract.



0 ¼ ½ 1 Mile

0 1000 2000 3000 5000 Feet

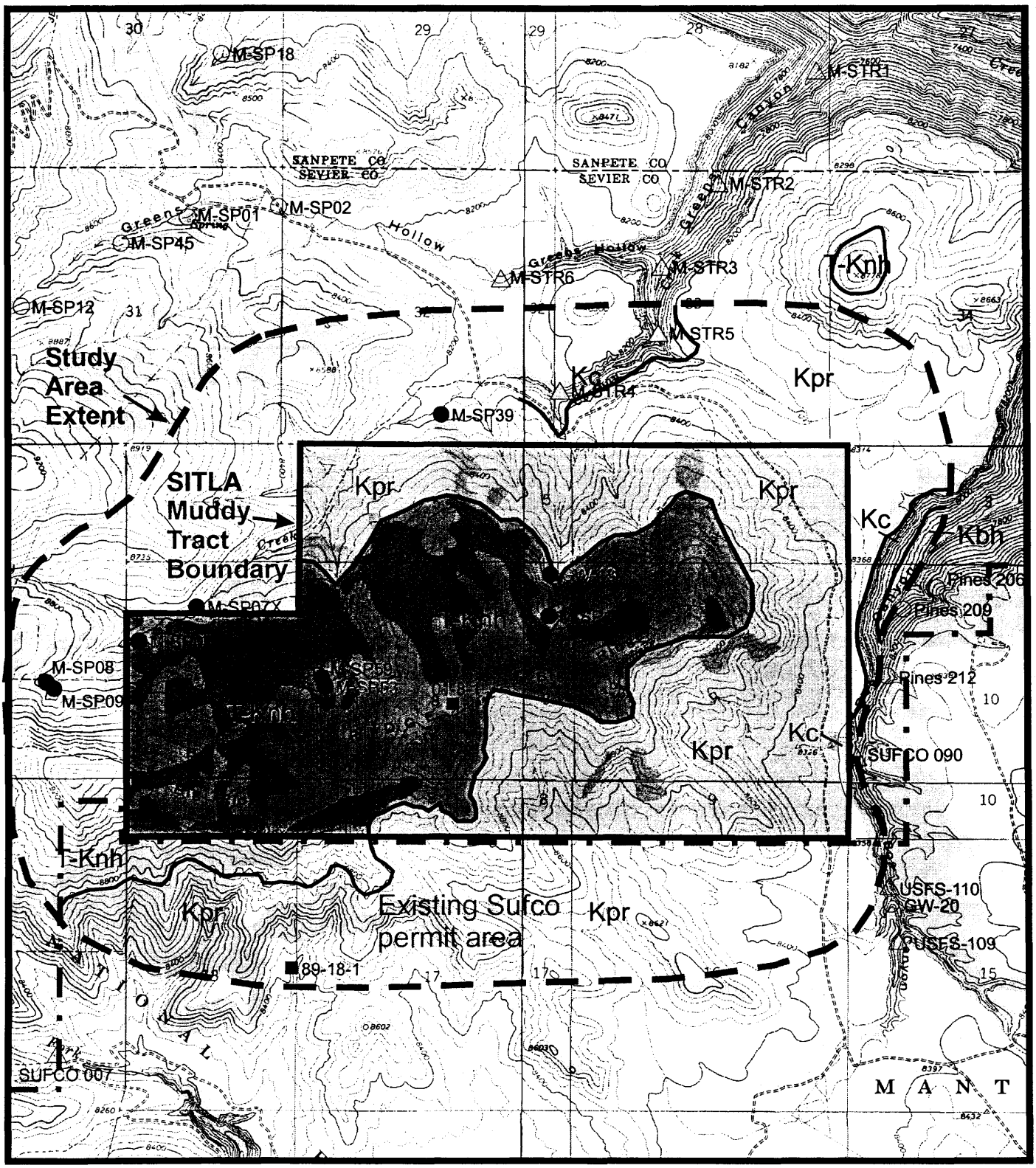
Figure 2 Location of SITLA Muddy Tract and surrounding area.



-1 to -2 Mild Drought
-2 to -3 Moderate Drought
-3 to -4 Severe Drought
-4 to -5 Extreme Drought

1 to 2 Mild Wet Spell
2 to 3 Moderate Wet Spell
3 to 4 Severe Wet Spell
4 to 5 Extreme Wet Spell

Figure 3 Plot of the PHDI for Utah Region 4.



0 ¼ ½ 1 Mile

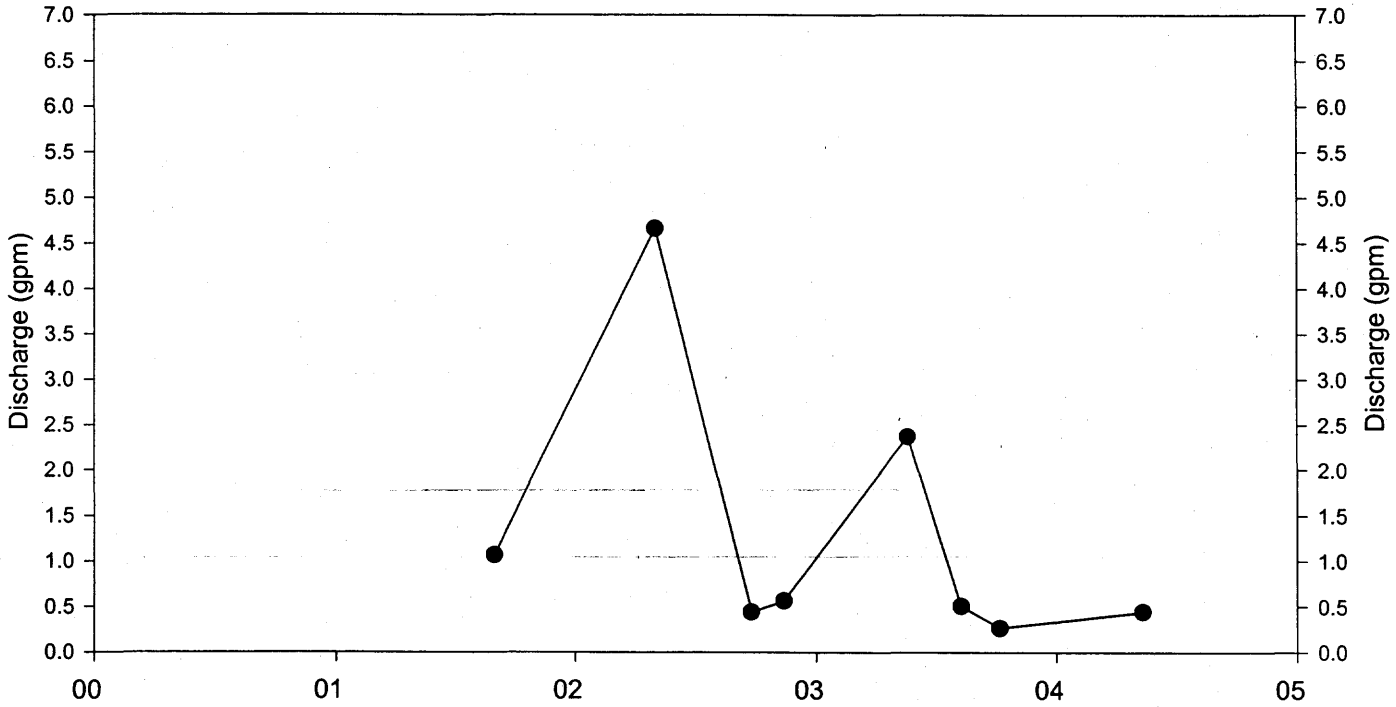
0 1000 2000 3000 5000 Feet

T-Knh North Horn Formation (Tertiary/Cretaceous)

Kpr Price River Formation (Cretaceous)

Figure 4 Geologic map of the SITLA Muddy Tract.

Spring M-SP39



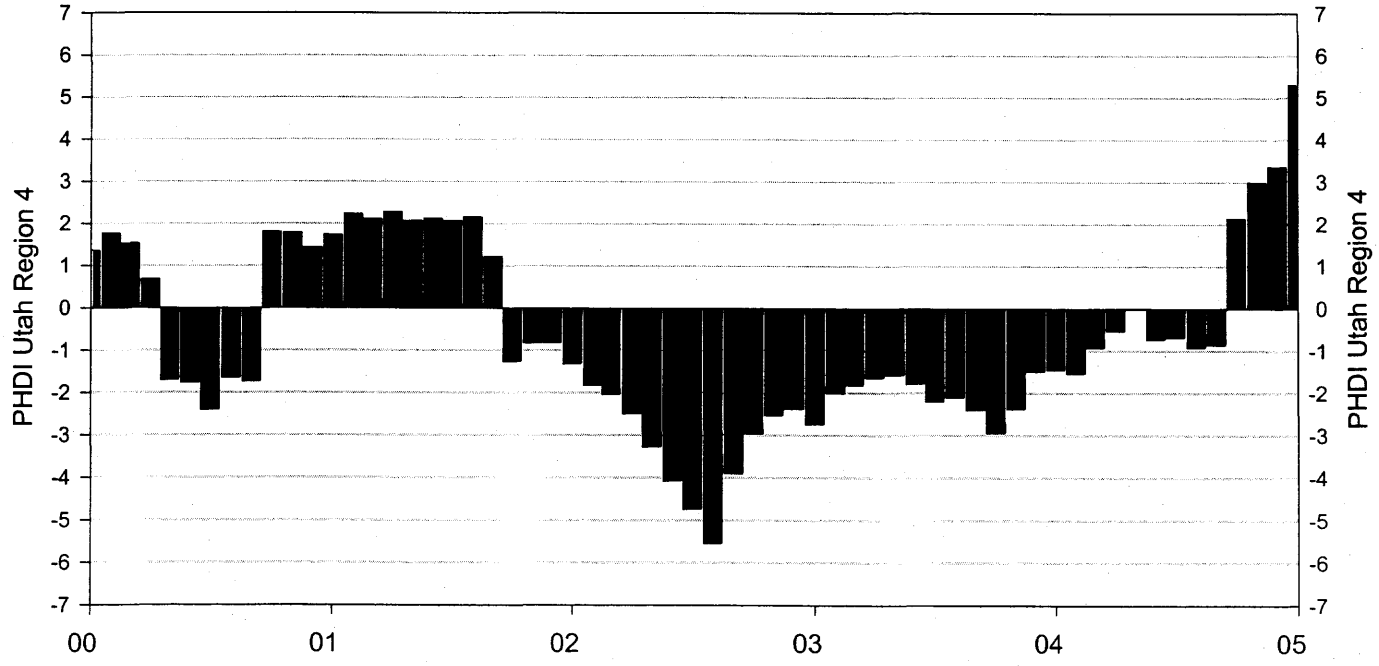
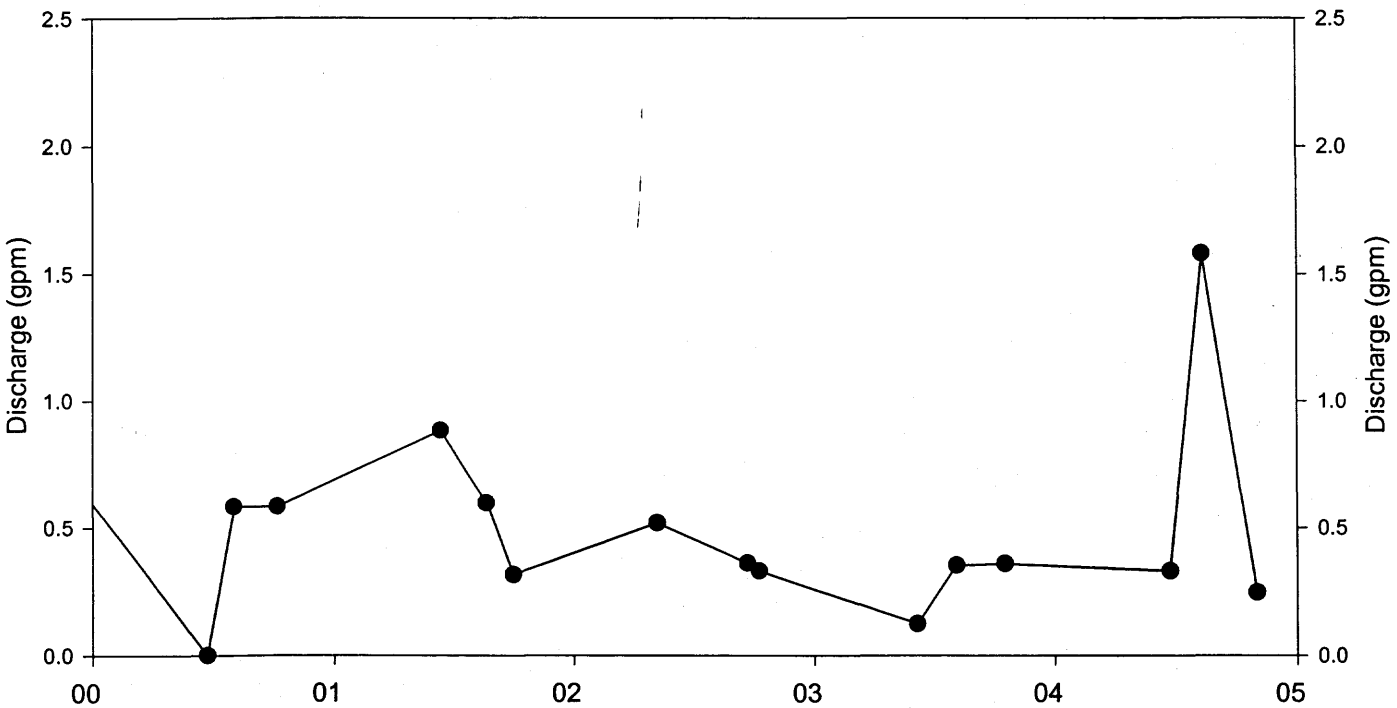


Figure 5a Discharge hydrograph and plot of the PHDI for Utah Region 4.

Spring GW-13



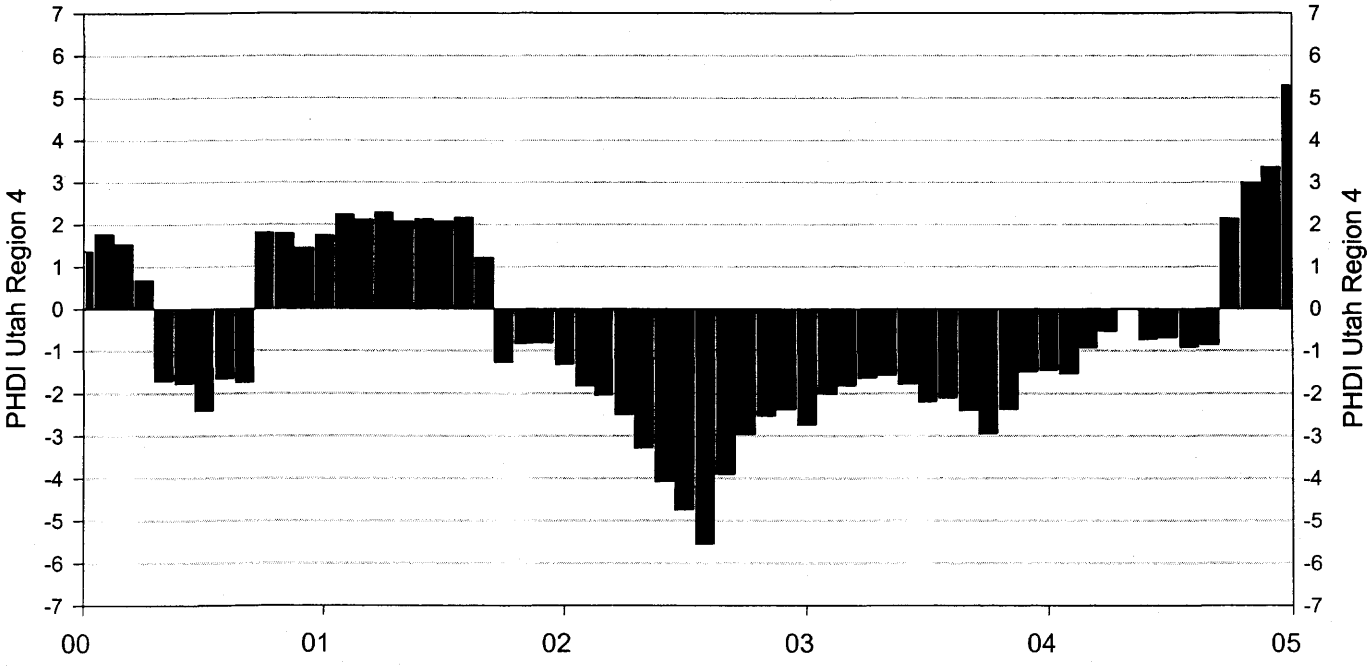
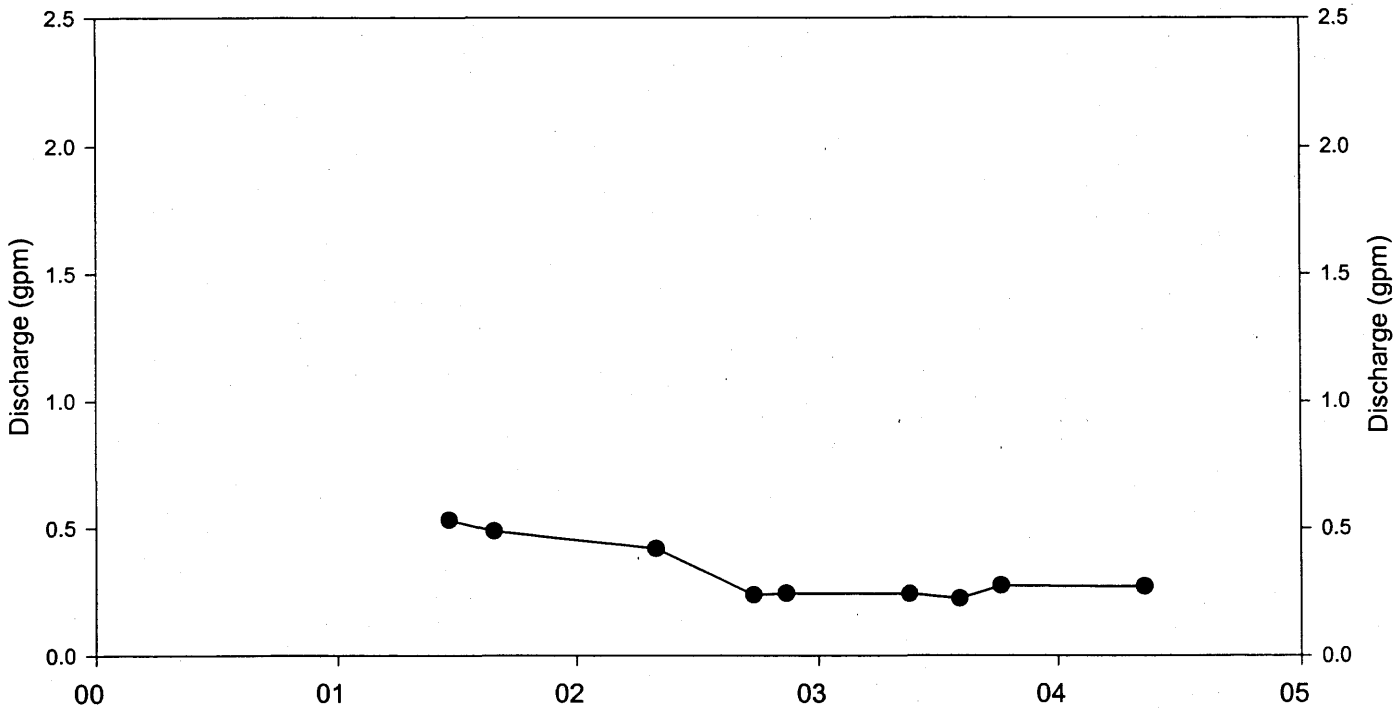


Figure 5b Discharge hydrograph and plot of the PHDI for Utah Region 4.

Spring M-SP10



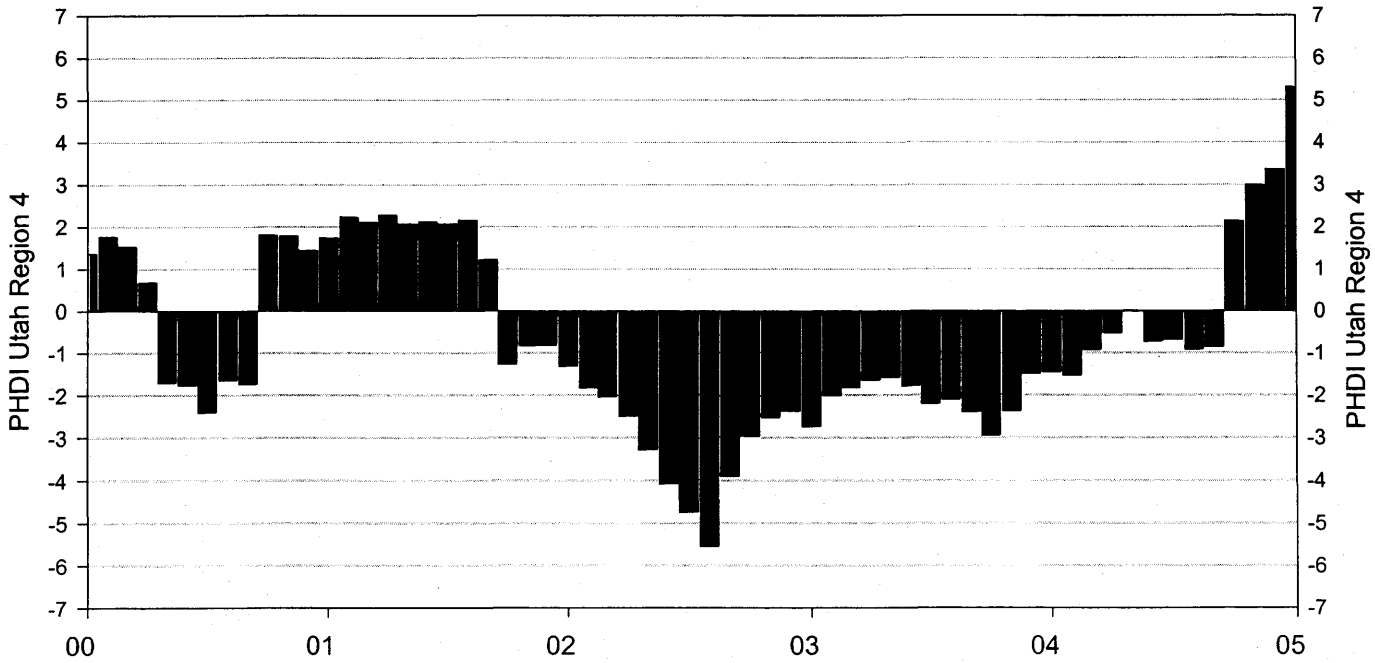
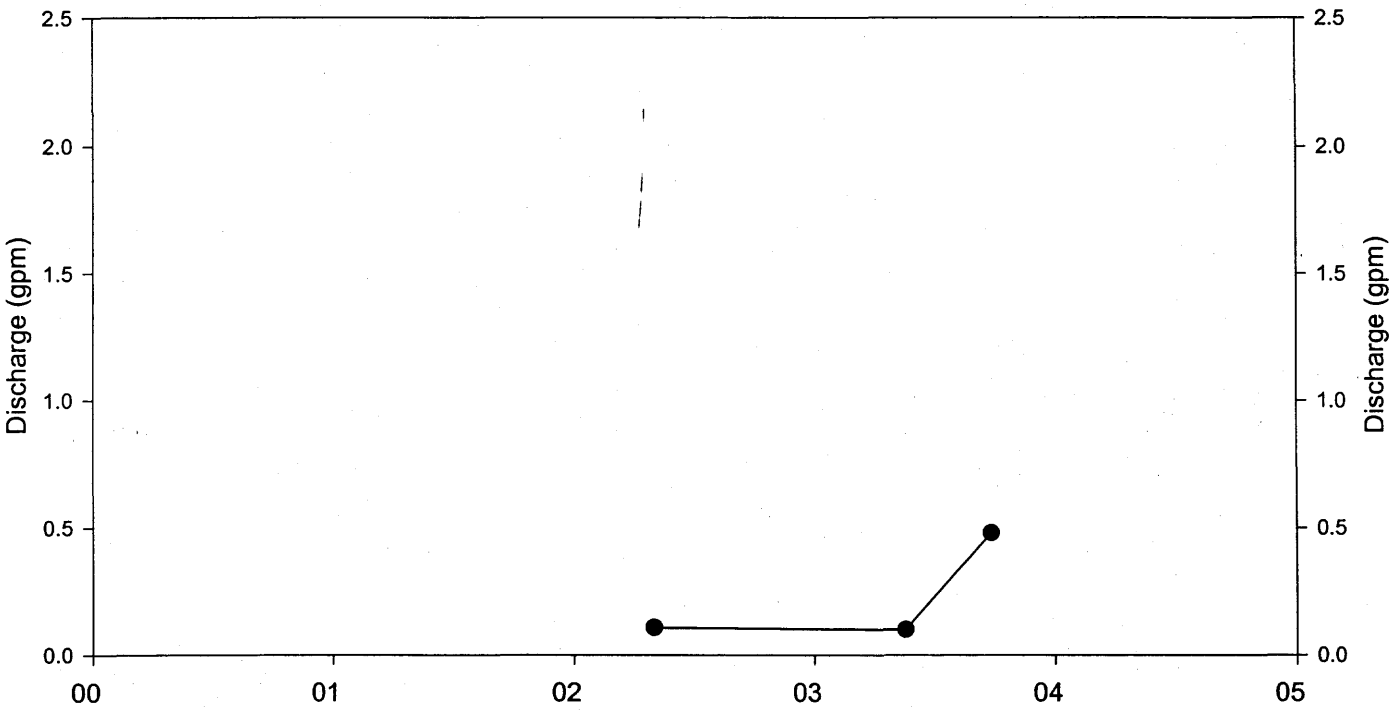


Figure 5c Discharge hydrograph and plot of the PHDI for Utah Region 4.

Spring M-SP53



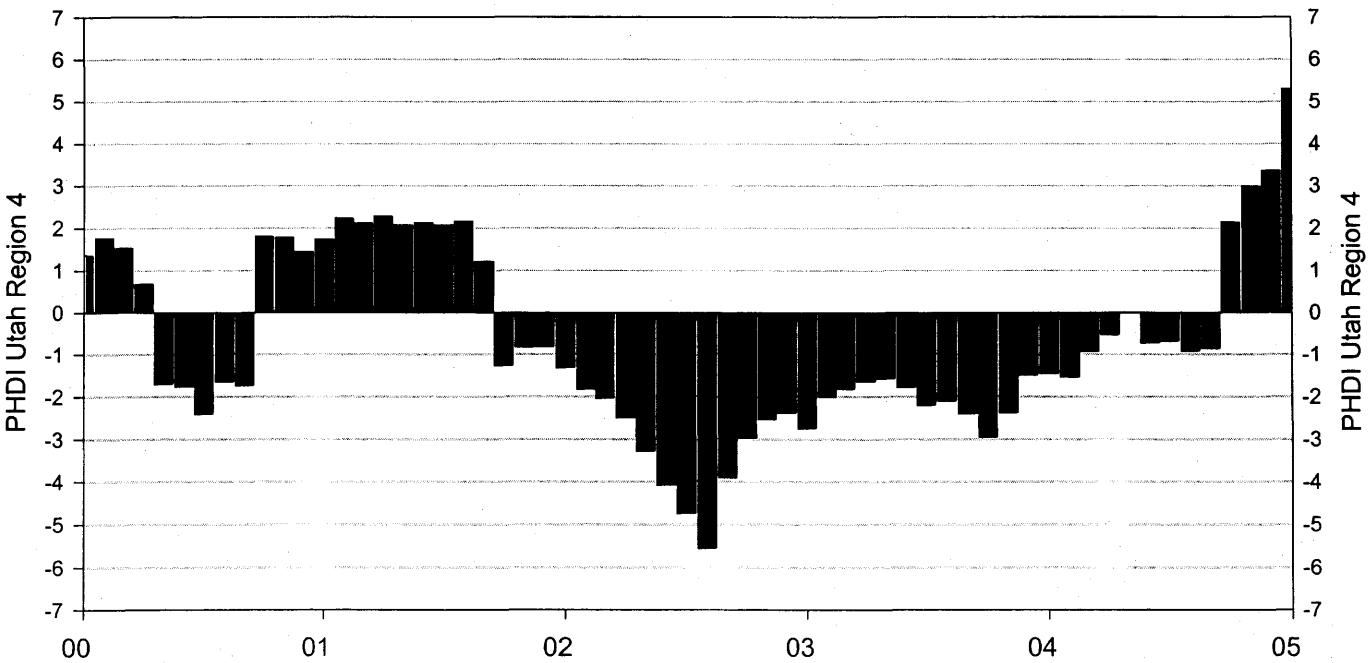
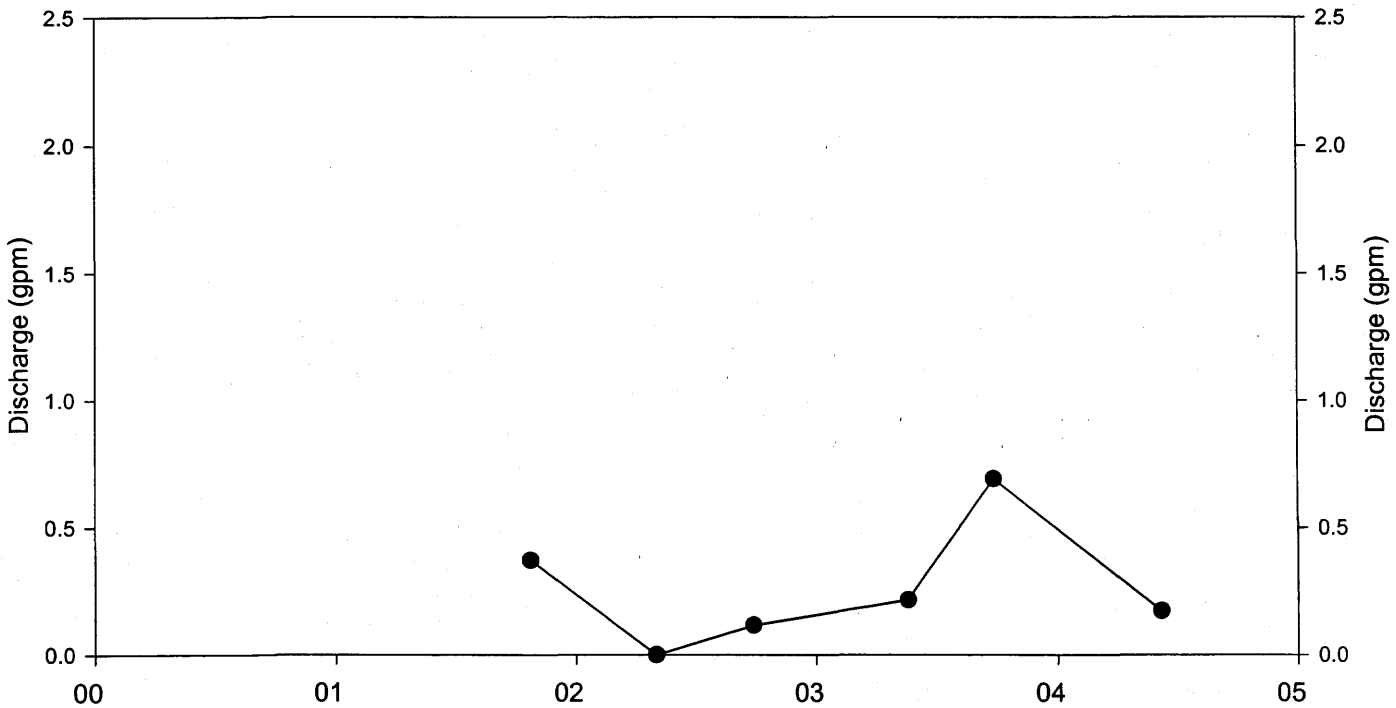


Figure 5d Discharge hydrograph and plot of the PHDI for Utah Region 4.

Spring M-SP59



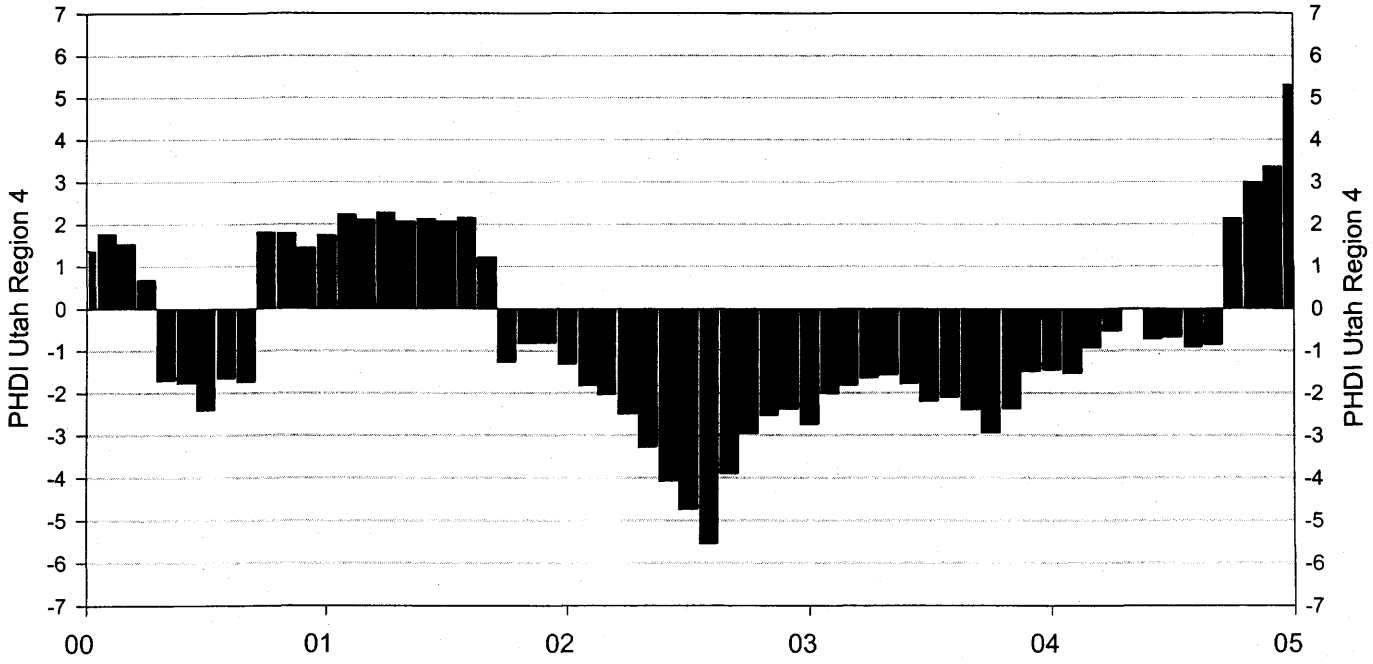


Figure 5e Discharge hydrograph and plot of the PHDI for Utah Region 4.

Spring M-SP07

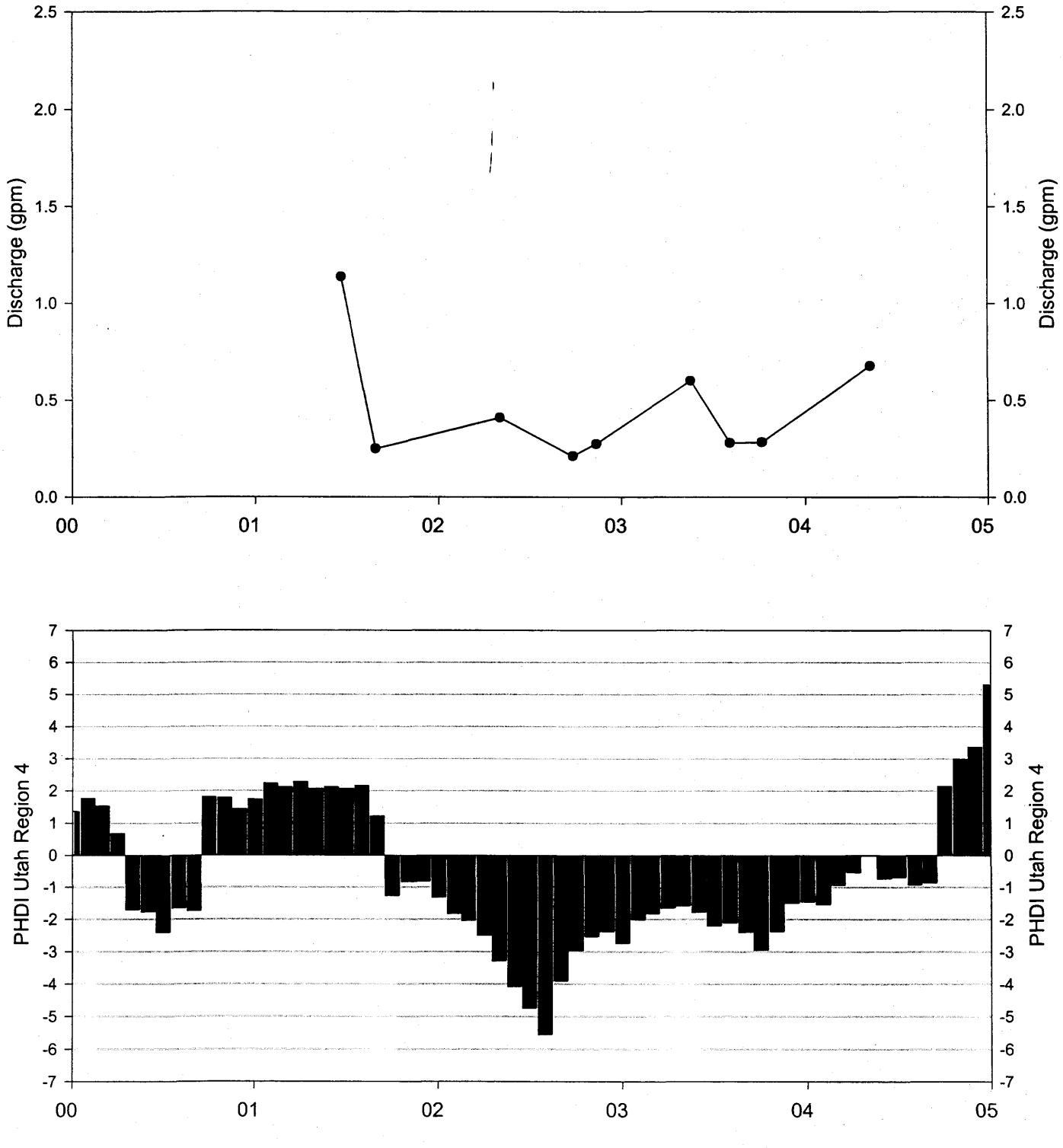
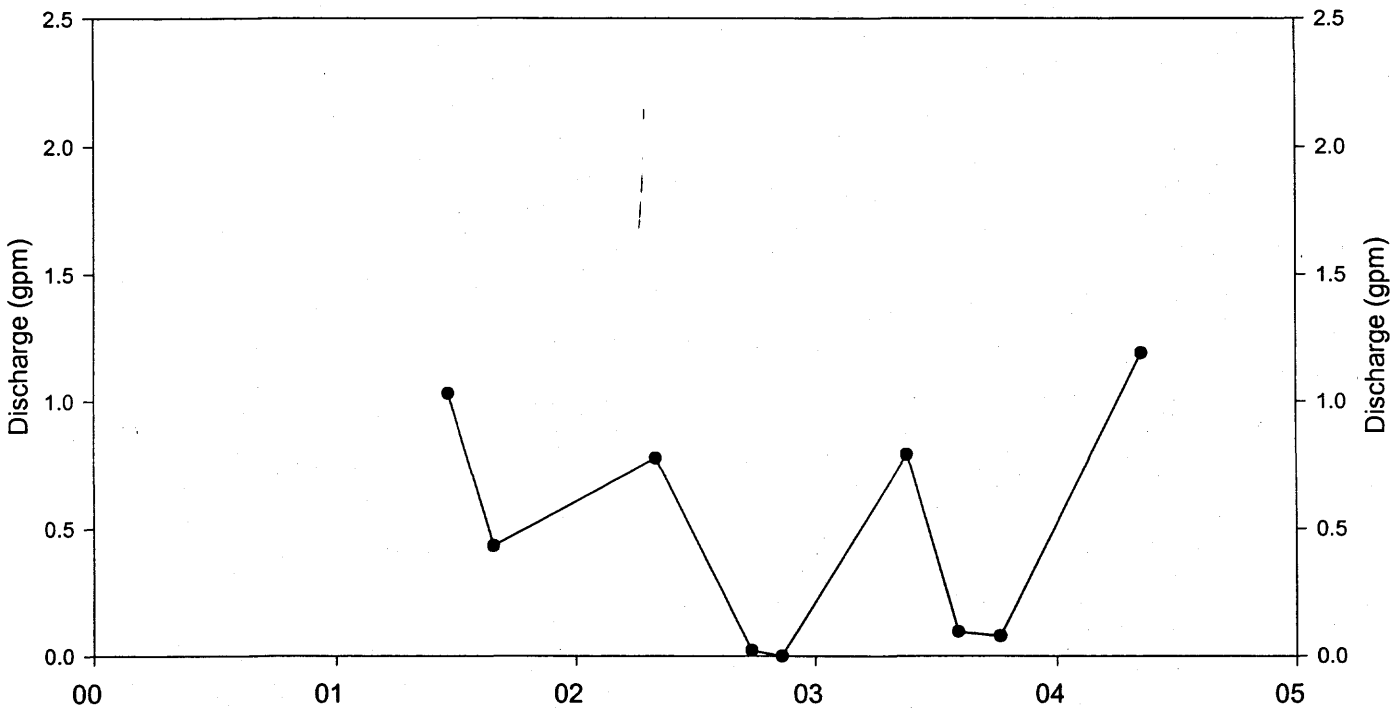


Figure 5f Discharge hydrograph and plot of the PHDI for Utah Region 4.

Spring M-SP08



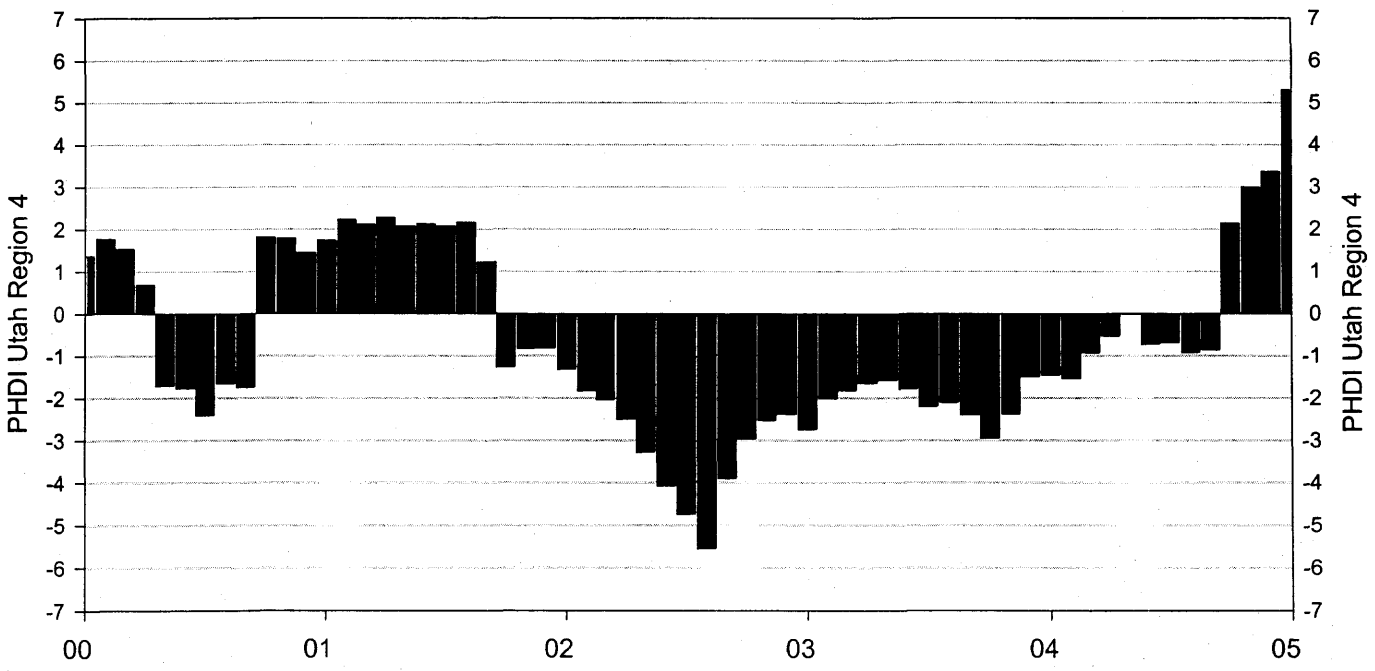
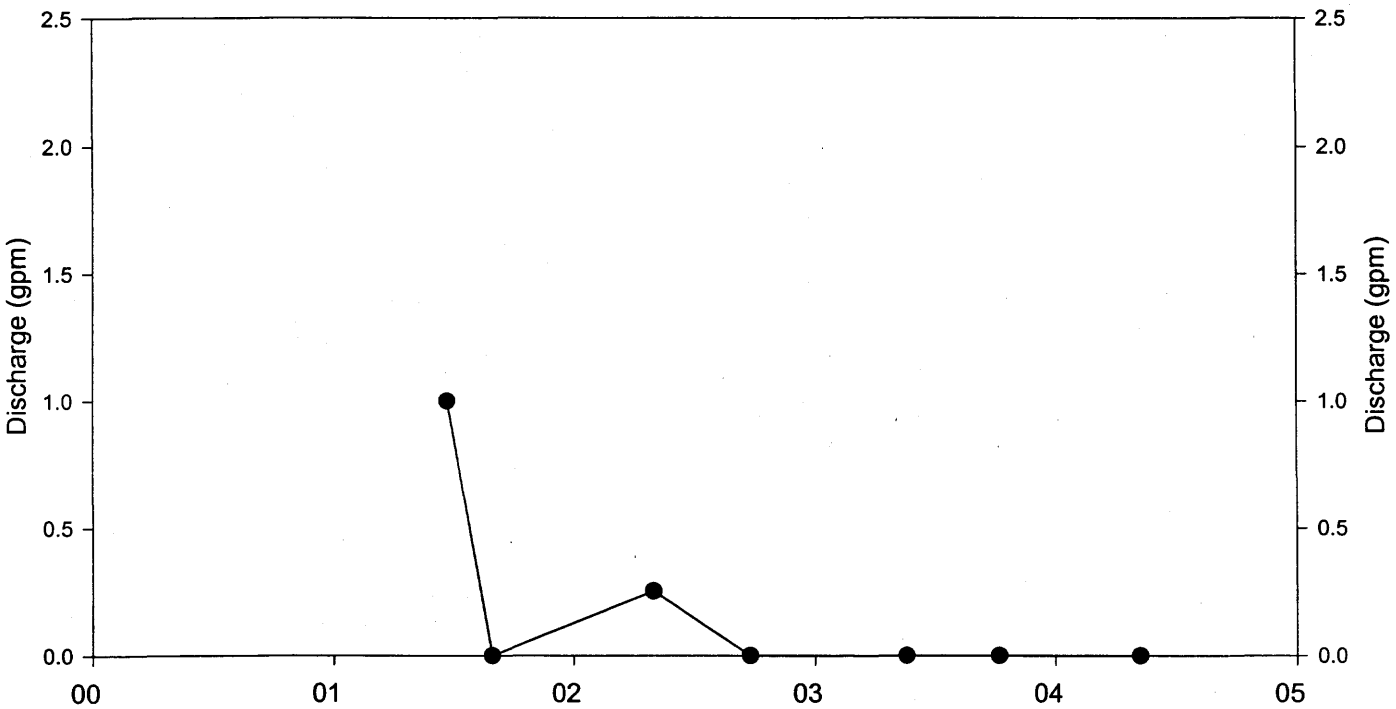


Figure 5g Discharge hydrograph and plot of the PHDI for Utah Region 4.

Spring M-SP09



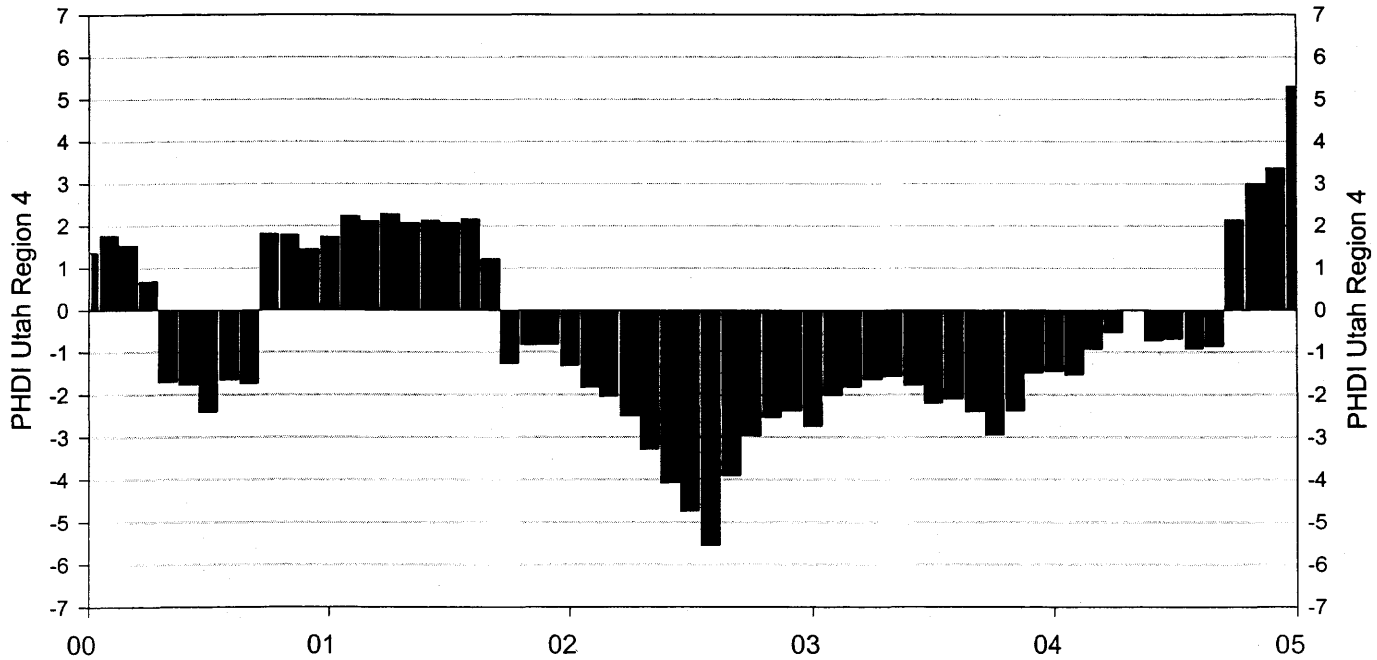
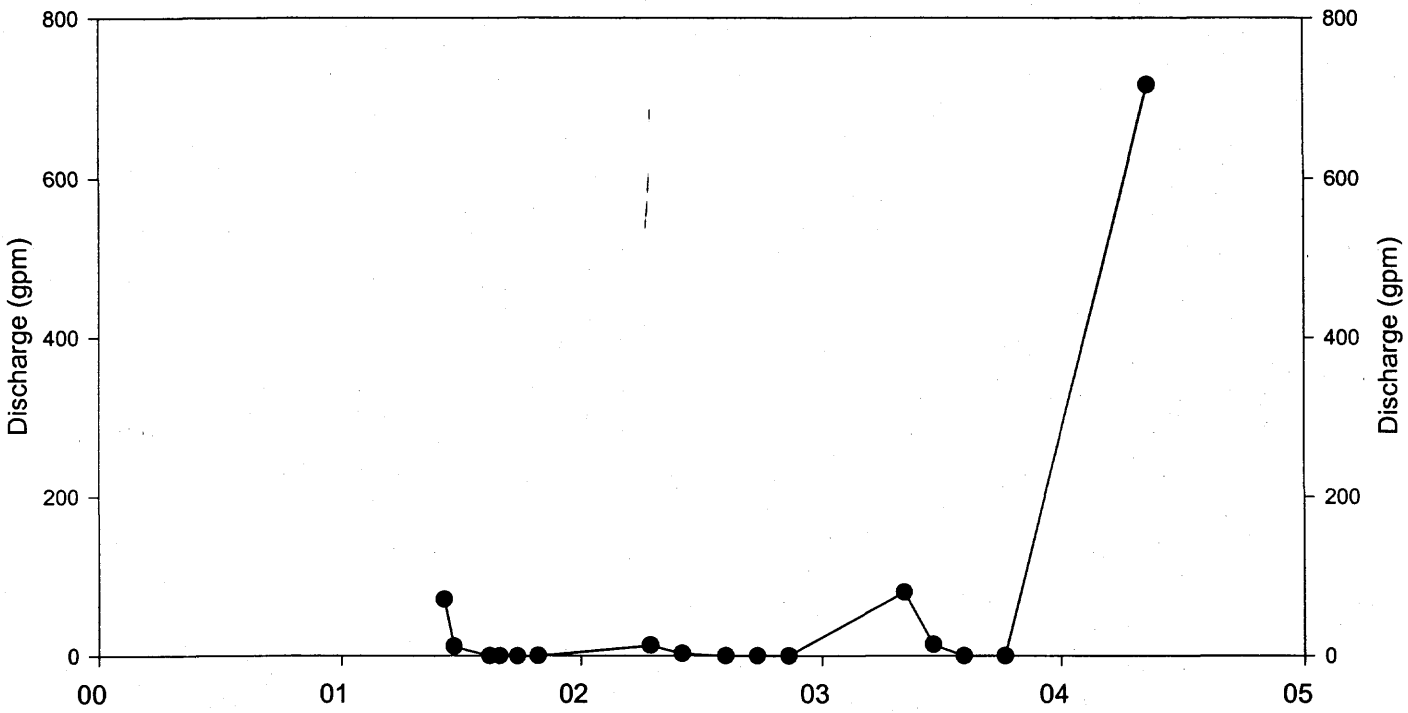


Figure 5h Discharge hydrograph and plot of the PHDI for Utah Region 4.

Stream M-STR4



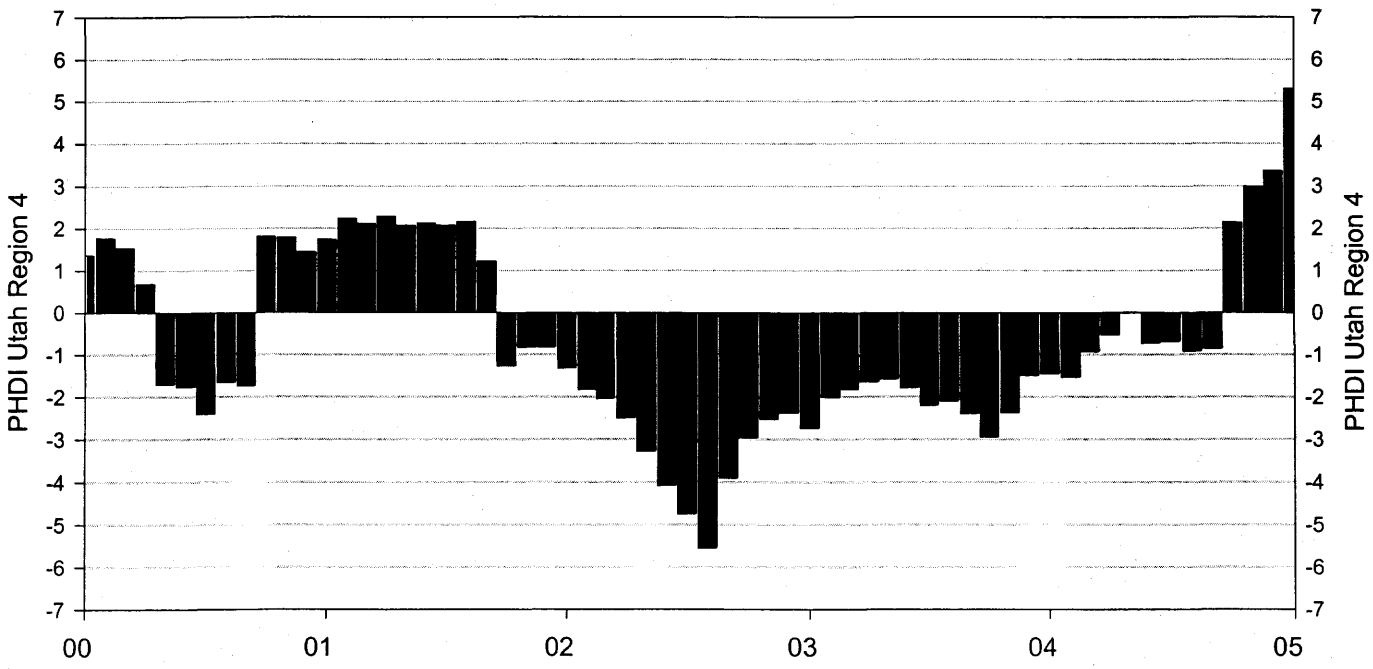


Figure 5i Discharge hydrograph and plot of the PHDI for Utah Region 4.

Stream M-STR5

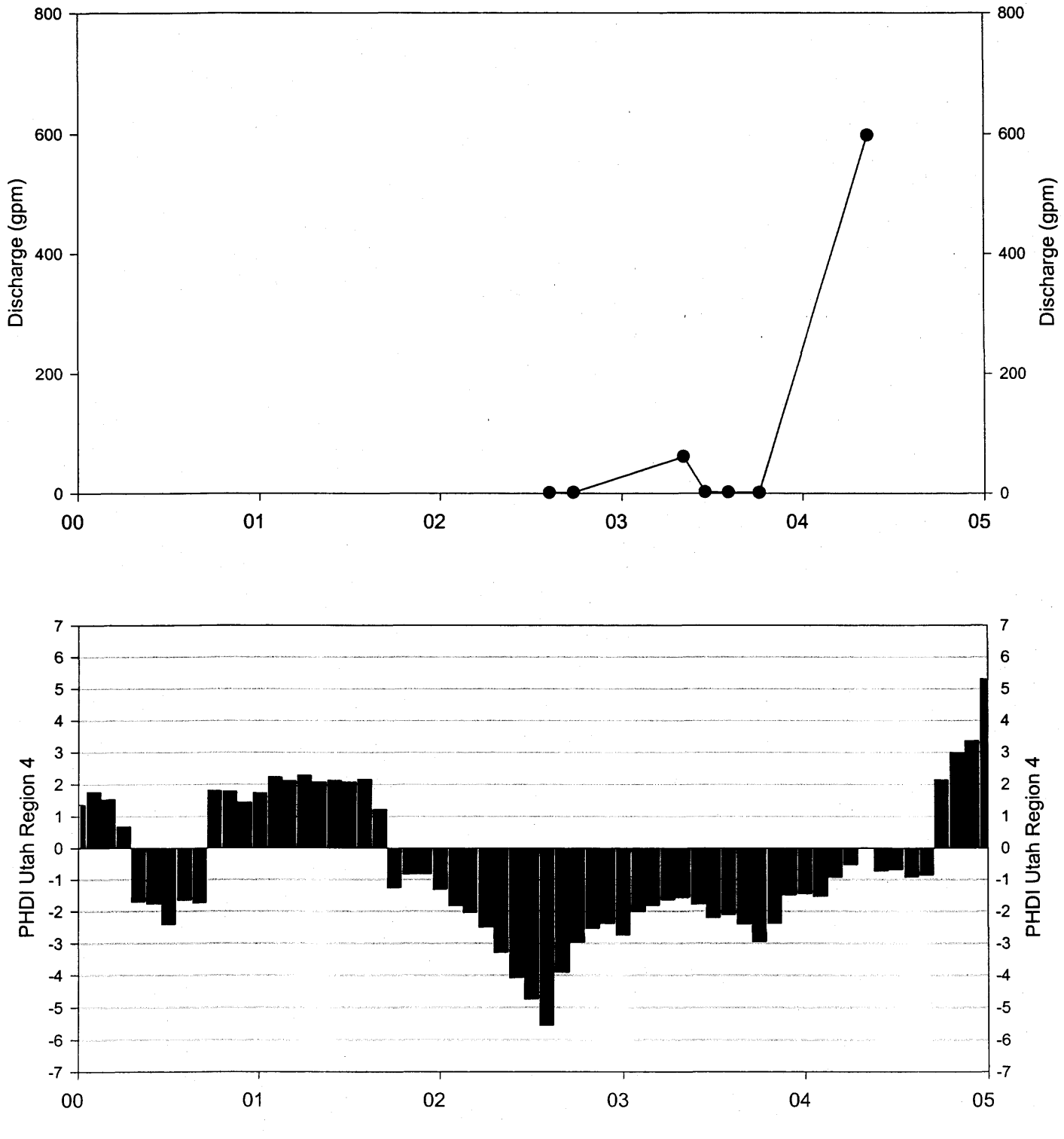
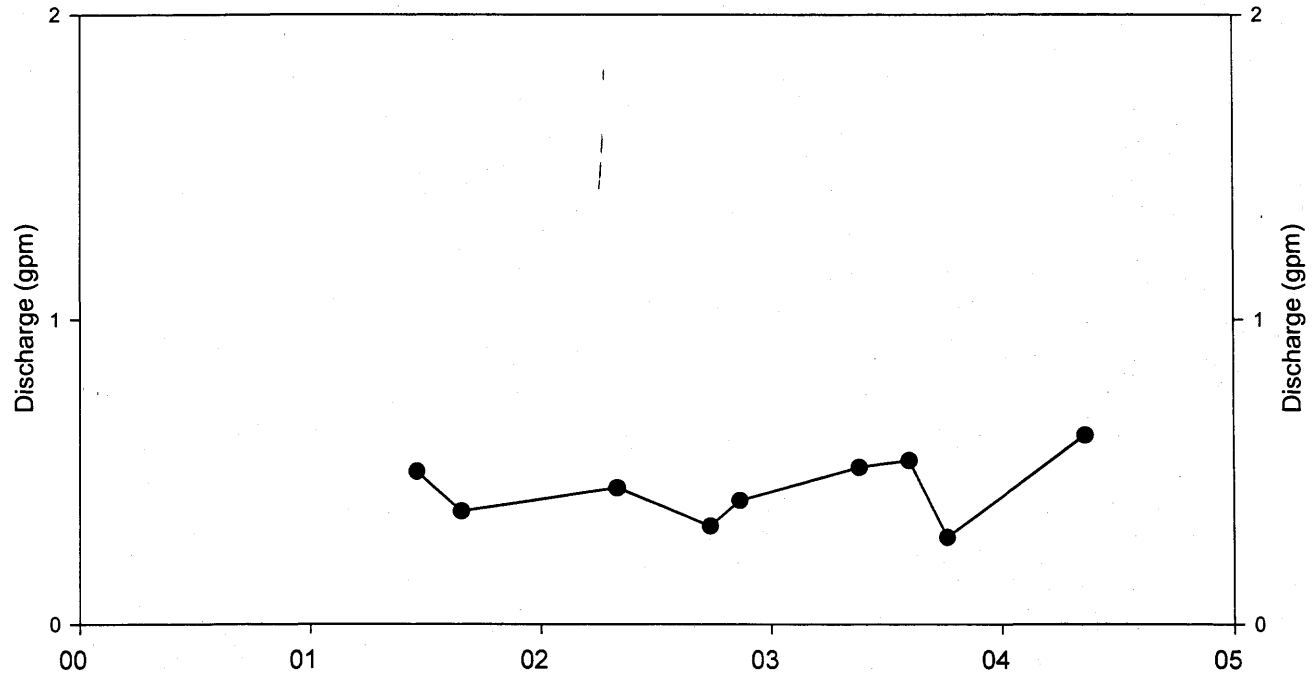


Figure 5j Discharge hydrograph and plot of the PHDI for Utah Region 4.

Spring M-SP01



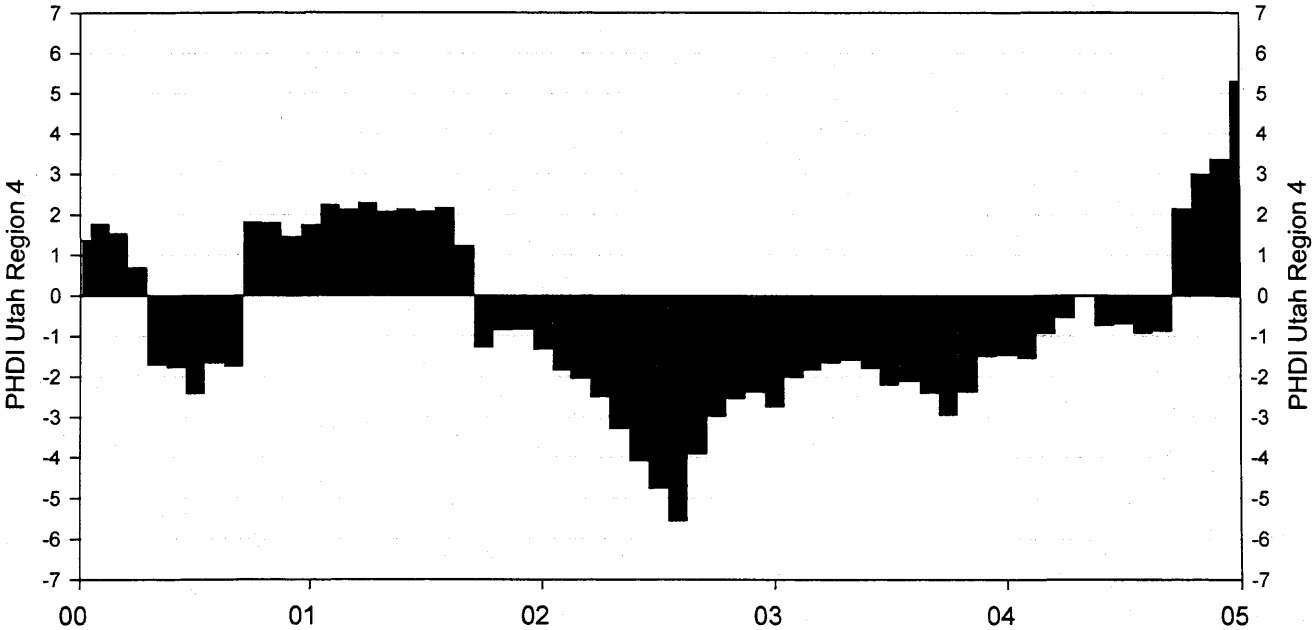


Figure 5k Discharge hydrograph and plot of the PHDI for Utah Region 4.

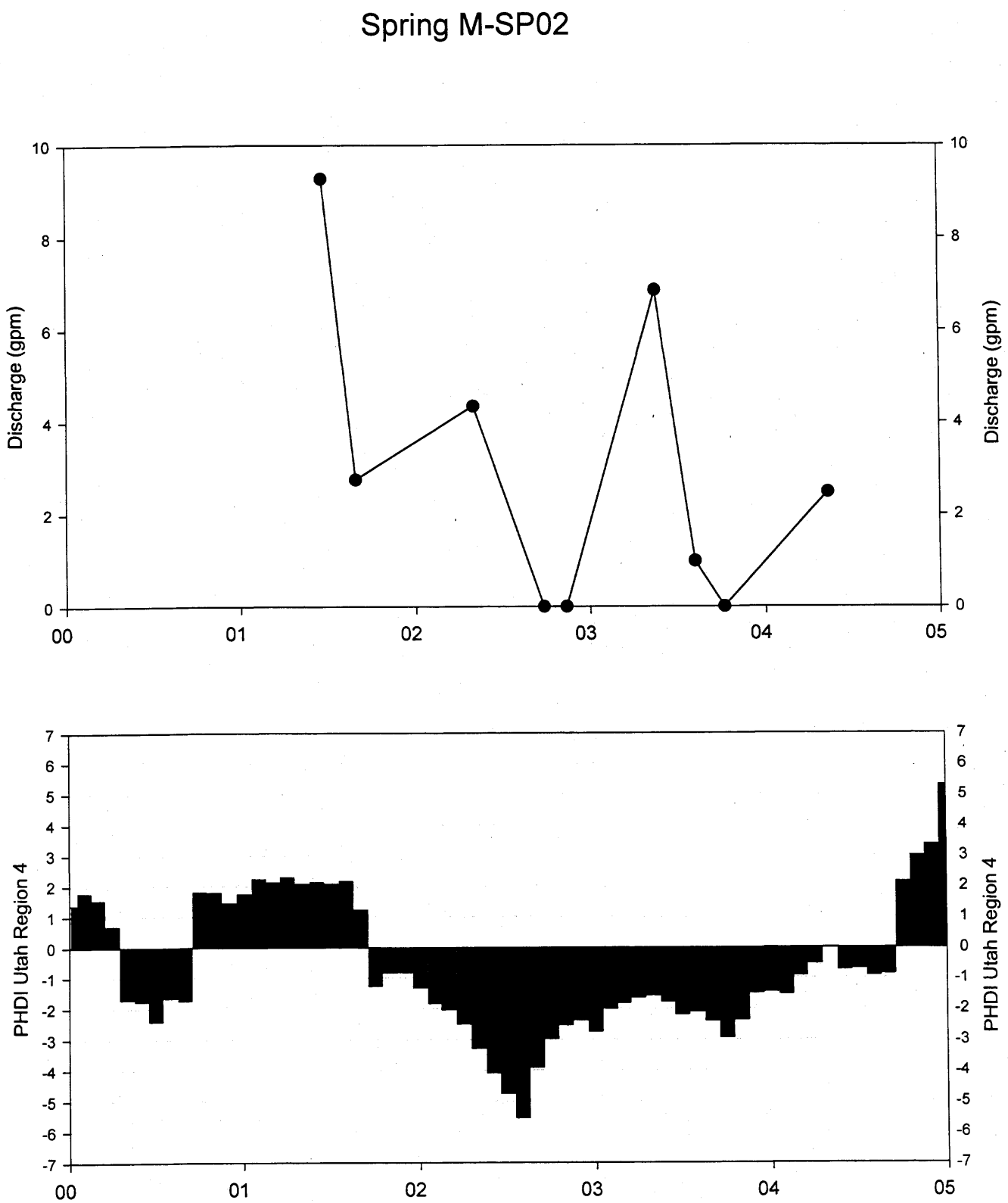


Figure 5L Discharge hydrograph and plot of the PHDI for Utah Region 4.

Spring M-SP18

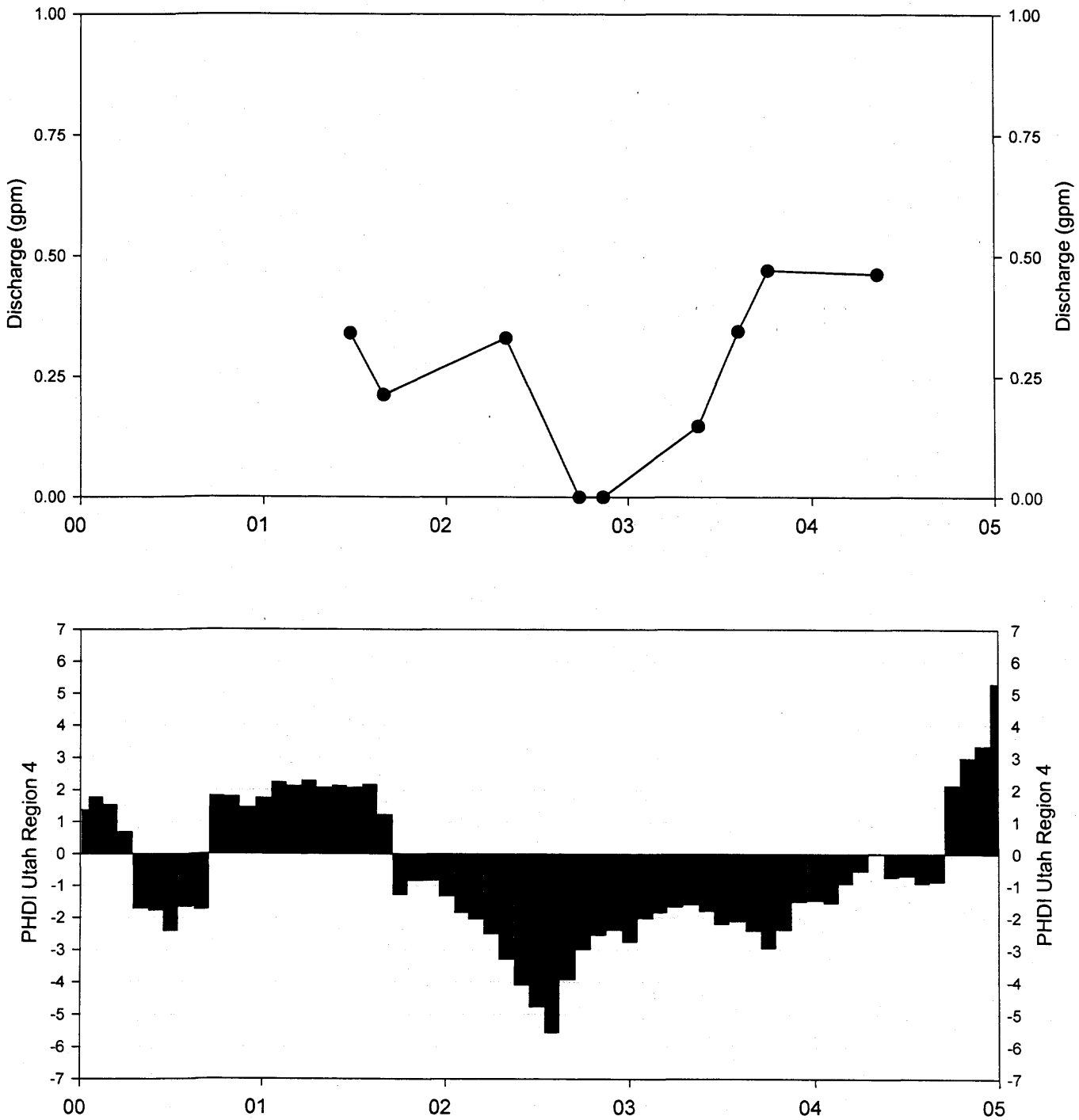
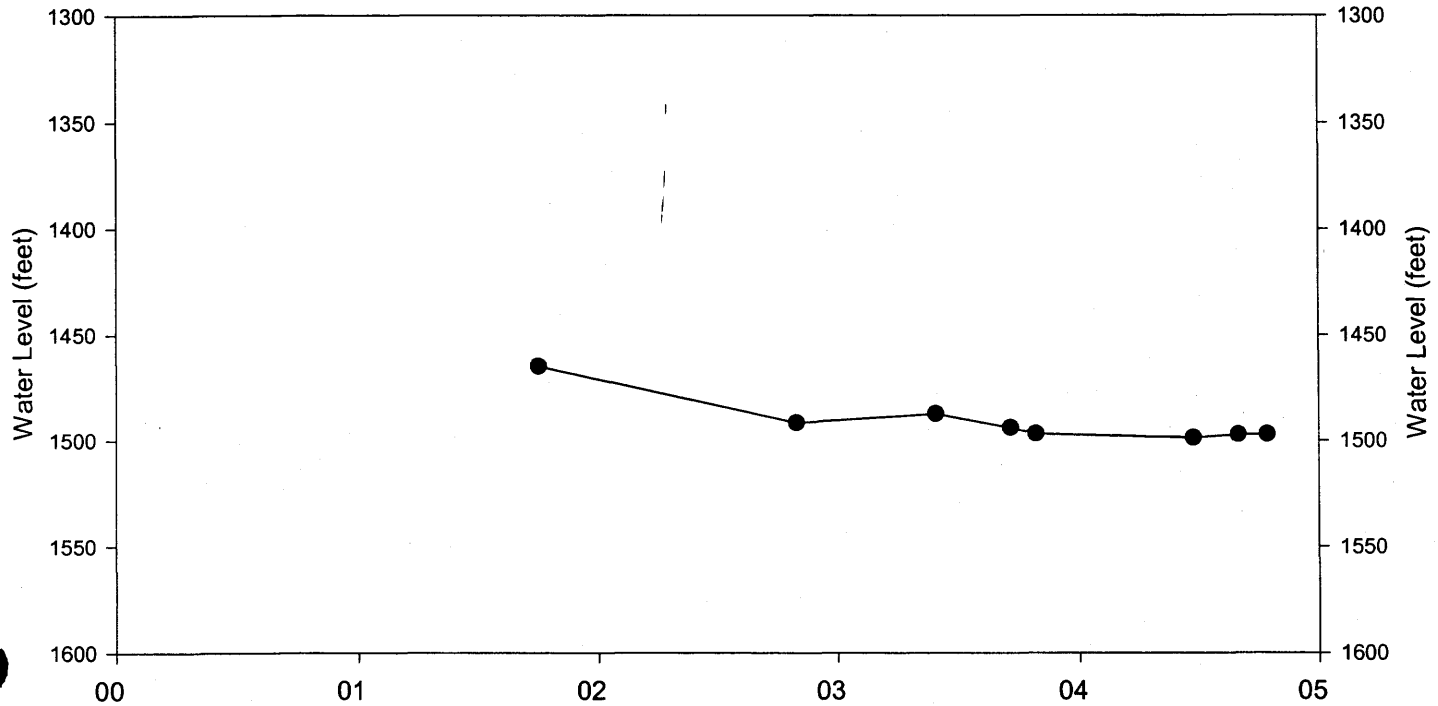


Figure 5m Discharge hydrograph and plot of the PHDI for Utah Region 4.

Monitoring Well 01-8-1



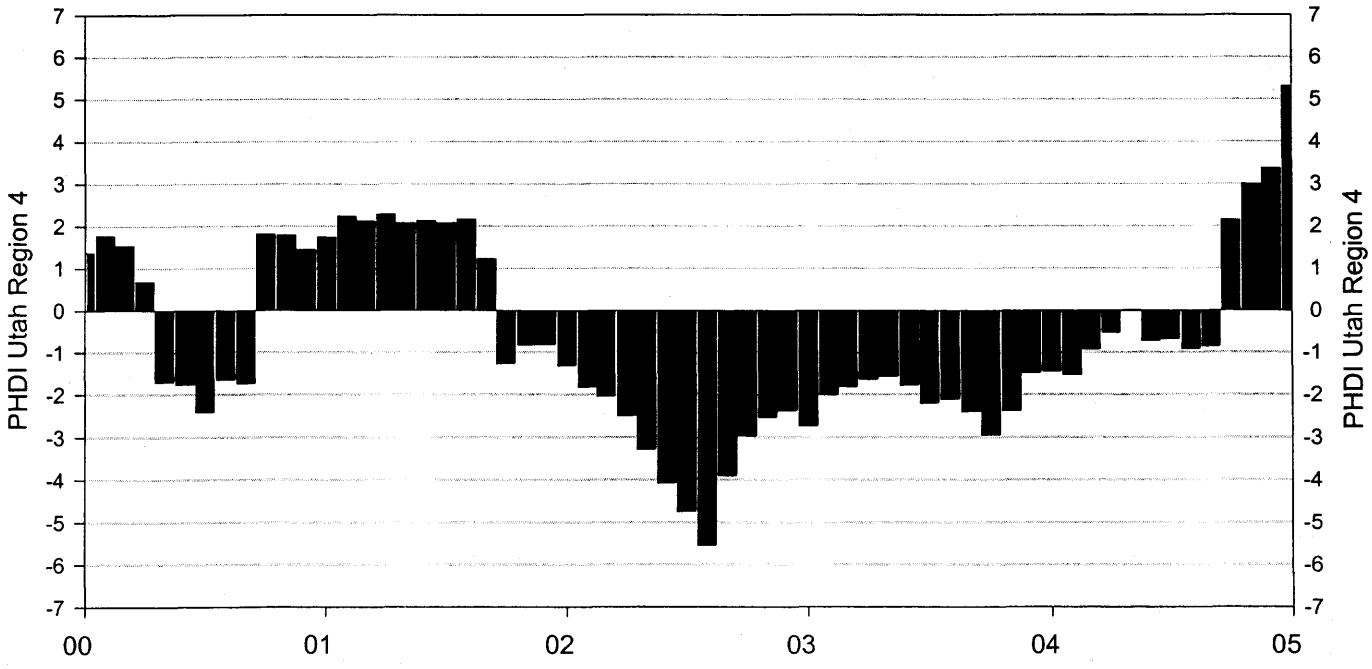
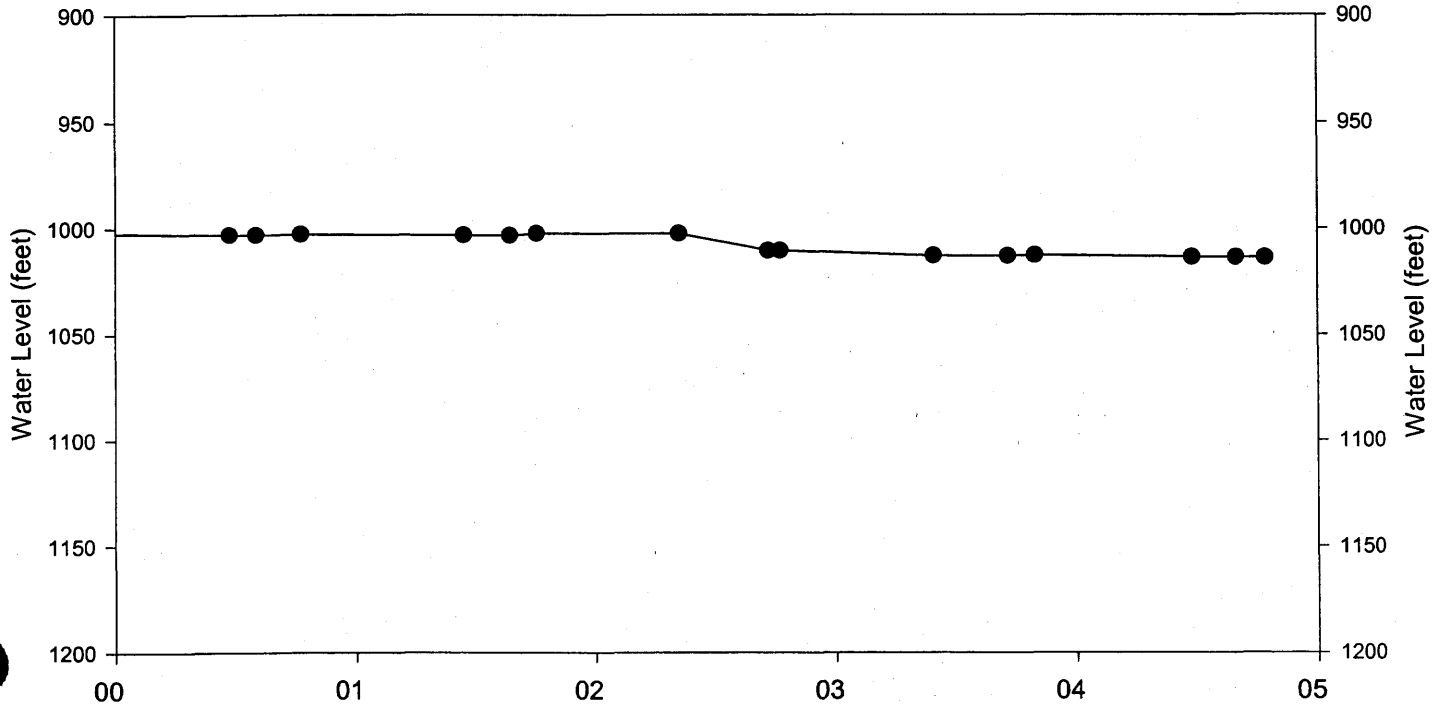


Figure 6a Water level hydrograph and plot of the PHDI for Utah Region 4.

Monitoring Well 89-18-1



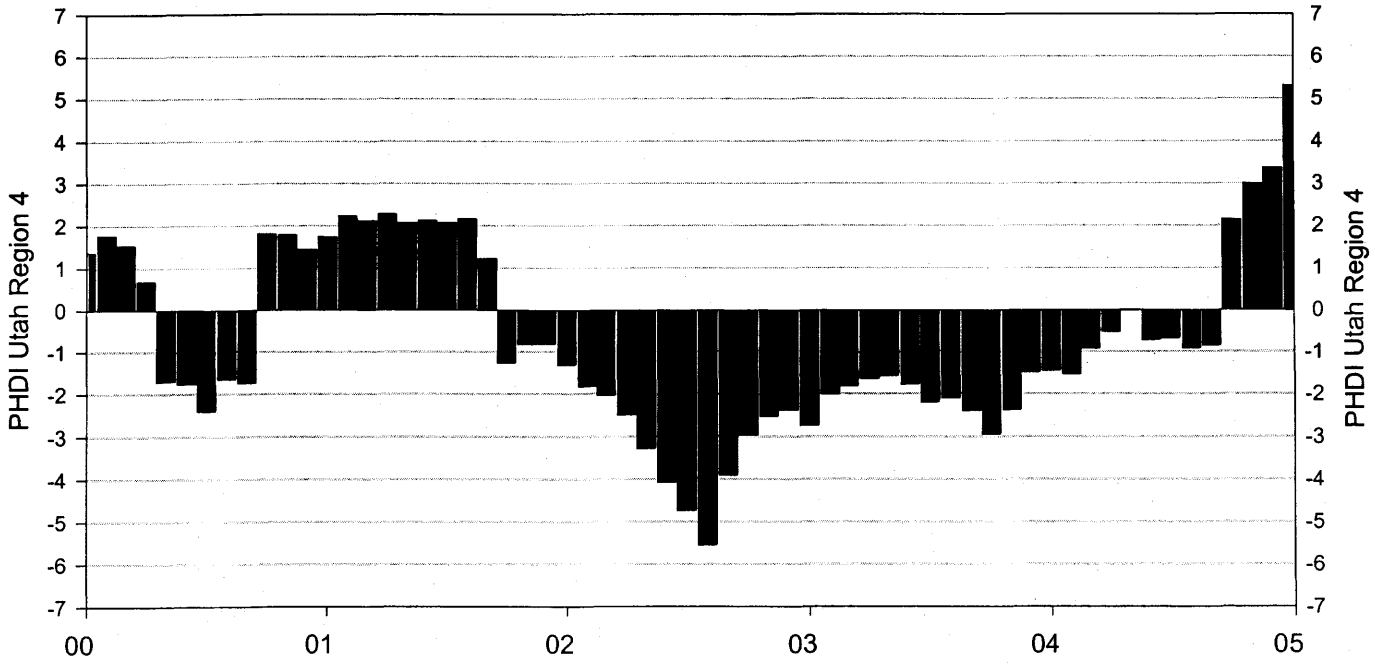


Figure 6b Water level hydrograph and plot of the PHDI for Utah Region 4.

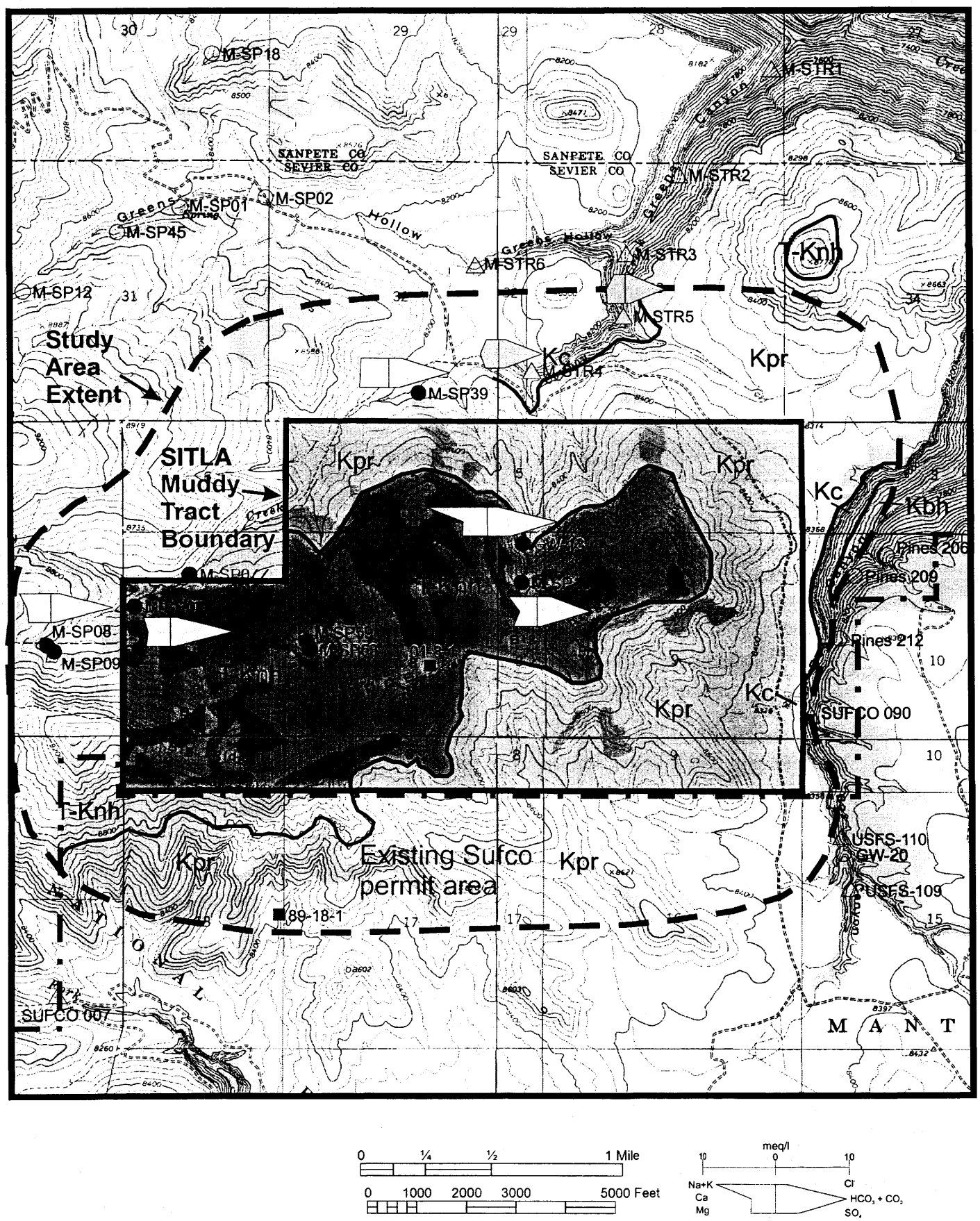


Figure 7 Stiff diagrams for groundwaters and surface water in the SITLA Muddy Tract area.

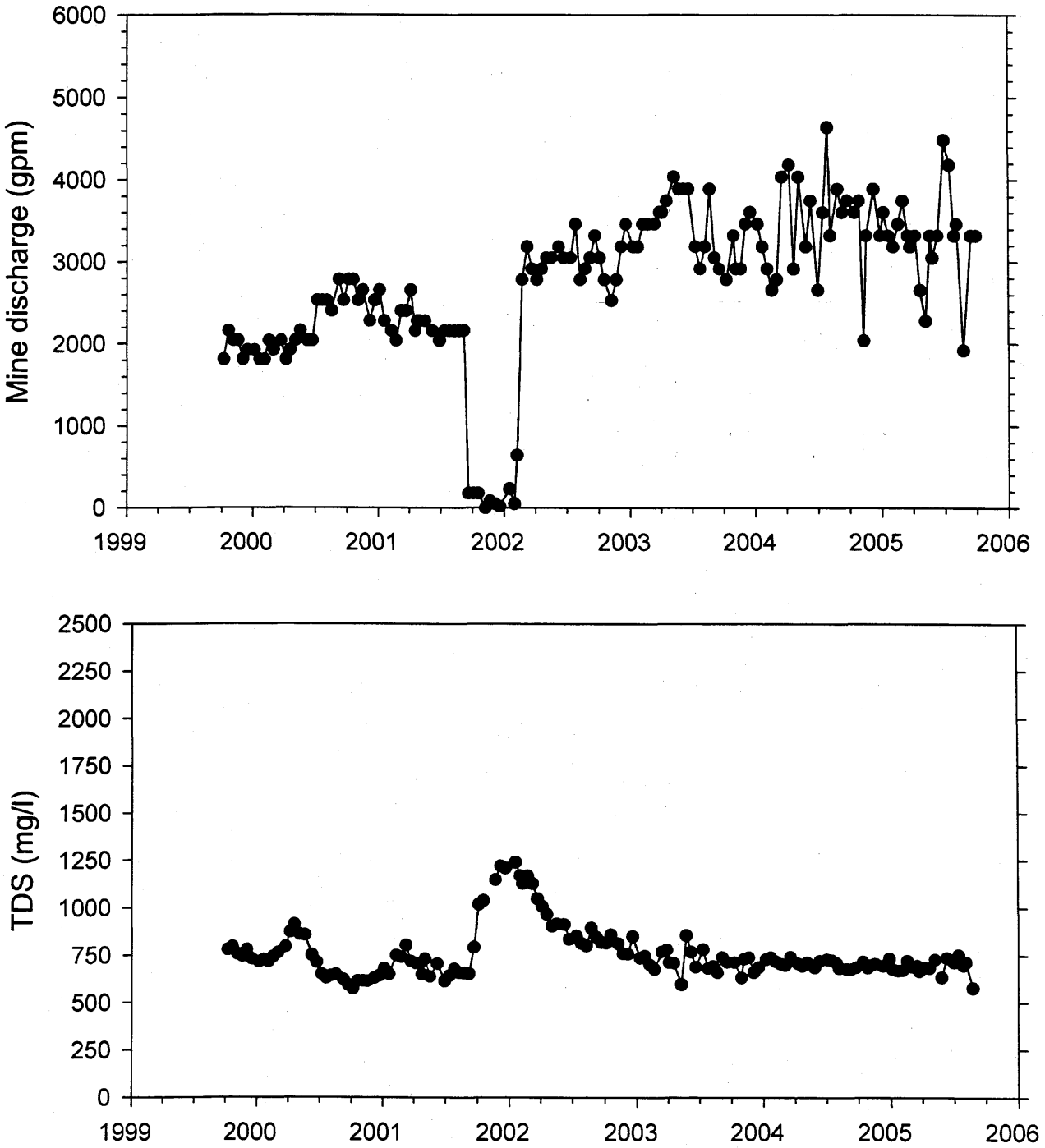
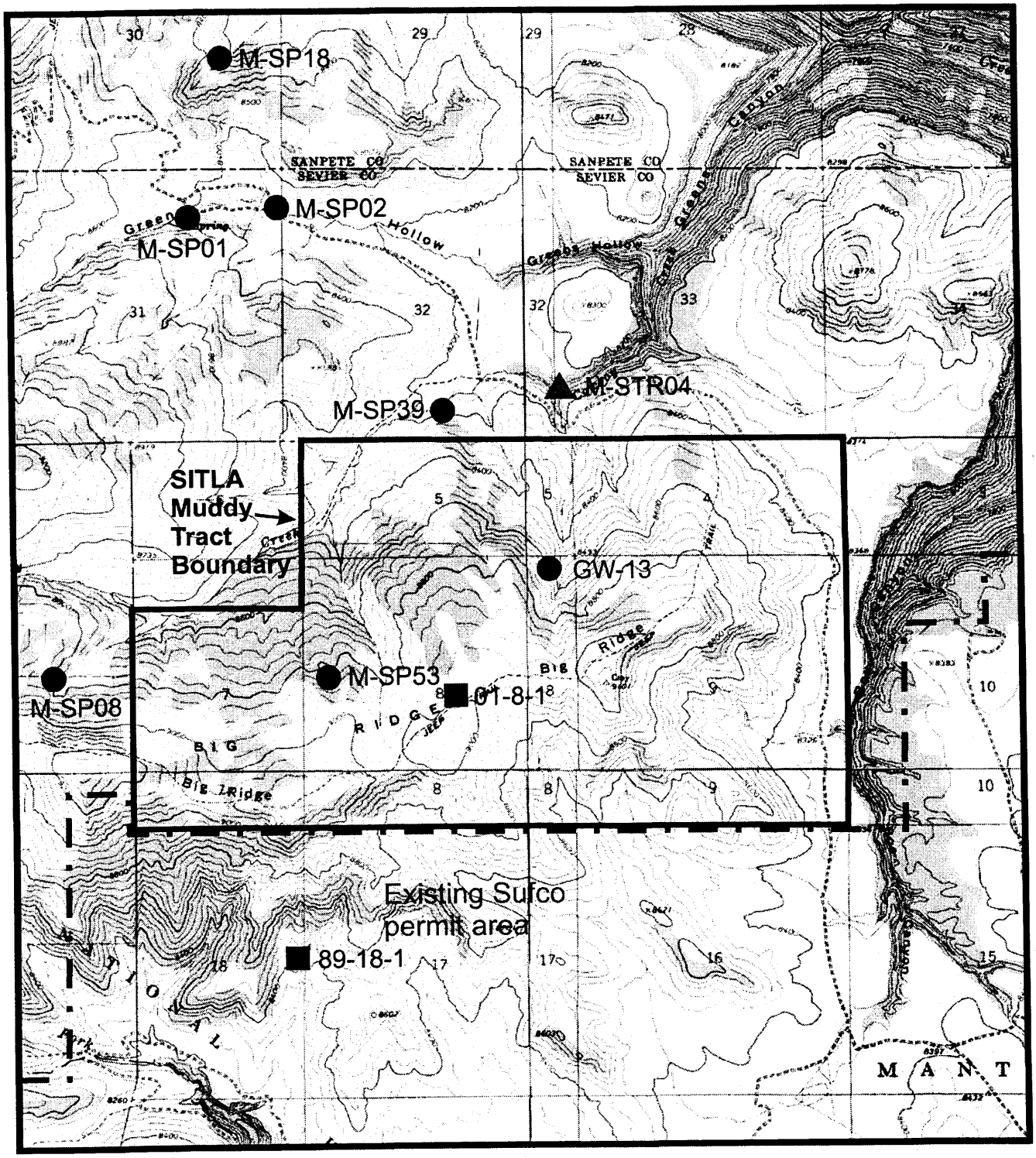


Figure 8 Plots of mine discharge and TDS from the Sufco Mine, October 1999 - September 2005.



● Spring monitoring site

▲ Stream monitoring site

■ Monitoring well

0 ¼ ½ 1 Mile

0 1000 2000 3000 5000 Feet

Figure 9 Proposed groundwater and surface-water monitoring locations.

Table 1 Monitoring site details in the SITLA Muddy Tract study area.

	Formation	Location	Drainage	Comments
Springs				
GW-13	North Horn Formation	NE 1/4 Sec 8 T21S R5E	Cowboy Creek	Spring has been monitored long-term by Sufco Mine
M-SP07	North Horn Formation	NW 1/4 Sec 7 T21S R5E	Cowboy Creek	
M-SP08	North Horn Formation	NE 1/4 Sec 12 T21S R4E	Cowboy Creek	
M-SP-09	North Horn Formation	NE 1/4 Sec 12 T21S R4E	Cowboy Creek	
M-SP10	North Horn Formation	NE 1/4 Sec 8 T21S R5E	Cowboy Creek	Developed spring for stock watering use
M-SP39	Price River Formation	SE 1/4 Sec 32, T20S R5E	Cowboy Creek	Developed spring with automated flow monitoring
M-SP53	North Horn Formation	NW 1/4 Sec 8 T21S R5E	Cowboy Creek	Developed spring for stock watering use
M-SP59	North Horn Formation	NW 1/4 Sec 8 T21S R5E	Cowboy Creek	Undeveloped spring
M-SP01	Price River Formation	NE 1/4 Sec 31 T21S R5E	Greens Hollow	Spring is outside study area, but included in monitoring plan
M-SP02	Price River Formation	NE 1/4 Sec 31 T21S R5E	Greens Hollow	Spring is outside study area, but included in monitoring plan
M-SP18	Price River Formation	SE 1/4 Sec 30 T20S R5E	Unnamed Muddy Creek	Spring is outside study area, but included in monitoring plan
Streams				
M-STR04	Castlegate Sandstone	SW 1/4 Sec 33 T20S R5E	Cowboy Creek	
M-STR05	Castlegate Sandstone	SW 1/4 Sec 33 T20S R5E	Cowboy Creek	
Wells				
01-8-1	Blackhawk Formation	NE 1/4 Sec 8 T21S R5E	Cowboy Creek	Screened in Blackhawk Formation, well installed in 2001
89-18-1	Blackhawk Formation	NE 1/4 sec 18 T21S R5E	North Fork Quitchupah	Well has been monitored long term by Sufco Mine

Table 2 Discharge and water-quality data for springs and streams in the SITLA Muddy Tract area.

Site	Date	Flow gpm	T °C	pH S.U.	Cond. µS/cm	TDS mg/l	Major Ions Ca^{2+} mg/l	Mg^{2+} mg/l	Na^{+} mg/l	K^{+} mg/l	HCO_3^- mg/l	CO_3^{2-} mg/l	SO_4^{2-} mg/l	Cl^- mg/l
M-SP01	6/19/2001	0.503	14	7.42	532									
M-SP01	8/28/2001	0.373	8	7.53	497	502					472	< 5.	26	47
M-SP01	5/1/2002	0.45	5.1	7.27	451	464					473	< 5.	28	44
M-SP01	9/25/2002	0.324	7.5	7.4	851	464					470	< 5.	26	41
M-SP01	9/25/2002						88	44	48	1.9	490	< 1.	28	43
M-SP01	11/12/2002	0.408	5.1	7.33	815	449					456	< 5.		
M-SP01	11/12/2002						80	40	43	1.7	480	< 1.	27	43
M-SP01	5/21/2003	0.517	4.3	7.26	435	473								
M-SP01	5/21/2003						81	40	45	1.9	470	< 1.	26	37
M-SP01	8/5/2003					454					464	< 5.		
M-SP01	8/8/2003	0.539	7.9	7.1	490		82	40	45	1.7	510	< 1.	27	42
M-SP01	10/7/2003	0.287	7.6	7.32	500	489					484	< 5.		
M-SP01	10/7/2003						86	42	47	1.8			26	38
M-SP01	5/11/2004	0.621	4.5	7.34	489	500					492	< 5.		
M-SP01	5/11/2004						84	42	49	1.9	490	< 1.	30	44
M-SP01	5/13/2004													
M-SP02	6/19/2001	9.274	11	7.43	497									
M-SP02	8/28/2001	2.756	10	7.62	499	504					451	< 5.	35	44
M-SP02	5/1/2002	4.348	9.1	7.57	470	463					470	< 5.	38	41
M-SP02	9/25/2002	0												
M-SP02	11/12/2002	0												
M-SP02	5/20/2003	6.856	6.1	7.22	469	486								
M-SP02	5/20/2003						80	34	56	2.1	450	< 1.	37	35
M-SP02	8/5/2003					457					459	< 5.		
M-SP02	8/8/2003	0.992	8.8	7.21	485		79	34	54	2	520	< 1.	35	38
M-SP02	10/7/2003	0												
M-SP02	5/11/2004	2.485	6	7.37	437	488					462	< 5.		
M-SP02	5/11/2004						79	33	60	2	460	< 1.	36	37
M-SP02	5/13/2004													
M-SP07	6/20/2001	1.137	7.8	7.37	491									
M-SP07	8/29/2001	0.249	7.3	7.5	541	561					560	< 5.	27	35
M-SP07	5/3/2002	0.409	4.6	8.37	530	498					540	< 5.	28	32
M-SP07	9/26/2002	0.211	6.5	7.45	878	472					520	< 5.	29	31
M-SP07	9/26/2002						65	43	86	1.9	530	< 1.	29	30
M-SP07	11/12/2002	0.273	3.9	7.46	799	509					553	< 5.		
M-SP07	11/12/2002						61	40	80	1.8	530	< 1.	30	30
M-SP07	5/20/2003	0.601	4.6	7.36	854	493								
M-SP07	5/20/2003						60	40	81	1.7	520	< 1.	27	26
M-SP07	8/5/2003	0.28	6.7	7.32	442		60	39	81	1.9	530	< 1.	28	29
M-SP07	8/5/2003					480					506	< 5.		
M-SP07	10/7/2003	0.283	6.3	7.62	865	517					516	< 5.		
M-SP07	10/7/2003						63	41	85	2			27	27
M-SP07	5/10/2004	0.677	4	7.38	500	531					528	< 5.		
M-SP07	5/10/2004						64	42	87	1.8	530	< 1.	37	30
M-SP07	5/13/2004													
M-SP08	6/20/2001	1.03	8.4	7.78	424									
M-SP08	8/29/2001	0.433	7.3	7.26	332	569					340	< 5.	28	53
M-SP08	5/3/2002	0.775	6.3	8.27	600	545					564	< 5.	33	52
M-SP08	9/26/2002	0.023	12	7.91	901	494					517	< 5.	23	43
M-SP08	9/26/2002						68	38	86	2.7	520	< 1.	24	43
M-SP08	11/12/2002	0												
M-SP08	5/20/2003	0.79	3.9	7.27	1013	590								
M-SP08	5/20/2003						69	38	110	1.9	560	< 1.	34	48
M-SP08	8/5/2003	0.096	10	7.25	541		65	36	87	2.3	550	< 1.	28	40
M-SP08	8/5/2003					501					521	< 5.		
M-SP08	10/7/2003	0.08	7.7	7.33	896	238					526	< 5.		
M-SP08	10/7/2003						67	37	90	2.1			24	37
M-SP08	5/10/2004	1.189	4.8	7.4	557	651					564	< 5.		
M-SP08	5/10/2004						67	37	120	2.5	570	< 1.	44	60
M-SP08	5/13/2004													
M-SP09	6/20/2001	1	7.9	7.53	464									
M-SP09	8/29/2001	0												
M-SP09	5/3/2002	0.254	3.6	8.55	429									
M-SP09	9/26/2002	0												
M-SP09	5/20/2003	0												
M-SP09	10/7/2003	0												

Site	Date	Nutrients NO2+NO3 mg/l	NH3 mg/l	NO2 mg/l	O-PO4 mg/l	T-P mg/l	Trace Metals T-Fe mg/l	D-Fe mg/l	T-Mn mg/l	D-Mn mg/l	D-Al mg/l	D-As mg/l	D-B mg/l	D-Cd mg/l	D-Cr mg/l	D-Cu mg/l	T-Hg ug/l	D-Hg ug/l	D-Mb mg/l	D-Ni mg/l	D-Pb mg/l	D-Se mg/l	D-Zn mg/l
M-SP01	6/19/2001																						
M-SP01	8/28/2001						< .1																
M-SP01	5/1/2002						< .1																
M-SP01	9/25/2002	< .03		< .03	< .05																		
M-SP01	9/25/2002		< .2				< .02	< .02	< .01	< .01	0.05	0.0012	0.07	< .005		< .01			< .02		< .07	0.0044	< .01
M-SP01	11/12/2002	< .03		< .03	< .05																		
M-SP01	11/12/2002		< .2				< .02	< .02	< .01	< .01	0.04	0.1	0.06	< .005		< .01			< .02		< .07	< .1	< .01
M-SP01	5/21/2003	< .03		< .03	< .05																		
M-SP01	5/21/2003		< .2				< .02	< .02	< .01	< .01	< .03	0.0009	< .05	< .005		< .01			< .02		< .07	0.0037	0.01
M-SP01	8/5/2003	< .03		< .03	< .05																		
M-SP01	8/8/2003		< .2				< .02	< .02	< .01	< .01	< .03	0.0007	0.06	< .005		< .01			< .02		< .07	0.0026	< .01
M-SP01	10/7/2003	< .03		< .03	< .05																		
M-SP01	10/7/2003		< .2				0.02	< .02	< .01	< .01	< .03	0.0006	0.06	< .005		< .01			< .02		< .07	0.0027	0.13
M-SP01	5/11/2004																						
M-SP01	5/11/2004		< .2				< .02	< .02	< .01	< .01	< .1	0.0008	0.06	< .005		< .01			< .02		< .07	0.0024	< .01
M-SP01	5/13/2004	< .03		< .03	< .05																		
M-SP02	6/19/2001																						
M-SP02	8/28/2001						< .1																
M-SP02	5/1/2002						< .1																
M-SP02	9/25/2002																						
M-SP02	11/12/2002																						
M-SP02	5/20/2003	0.12		< .03	< .05																		
M-SP02	5/20/2003		< .2				< .02	< .02	< .01	< .01	< .03	0.0012	0.19	< .005		< .01			< .02		< .07	0.0033	0.01
M-SP02	8/5/2003	0.09		< .03	< .05																		
M-SP02	8/8/2003		< .2				< .02	< .02	< .01	< .01	< .03	0.0008	0.05	< .005		< .01			< .02		< .07	0.0019	0.06
M-SP02	10/7/2003																						
M-SP02	5/11/2004																						
M-SP02	5/11/2004		< .2				0.02	< .02	< .01	< .01	< .1	0.0009	0.06	< .005		< .01			< .02		< .07	0.002	0.02
M-SP02	5/13/2004	0.11		< .03	< .05																		
M-SP07	6/20/2001																						
M-SP07	8/29/2001						0.3																
M-SP07	5/3/2002						2.2																
M-SP07	9/26/2002	0.14		< .03	< .05																		
M-SP07	9/26/2002		< .2				0.8	< .02	0.01	< .01	0.05	0.0009	0.1	< .005		< .01			< .02		< .07	0.0034	< .01
M-SP07	11/12/2002	0.14		< .03	< .05																		
M-SP07	11/12/2002		< .2				0.19	< .02	< .01	< .01	0.04	0.1	0.07	< .005		< .01			< .02		< .07	0.1	0.02
M-SP07	5/20/2003	0.33		< .03	< .05																		
M-SP07	5/20/2003		< .2				0.55	< .02	< .01	< .01	< .03	0.0009	0.08	< .005		< .01			< .02		< .07	0.0025	0.01
M-SP07	8/5/2003		< .2				0.36	< .02	< .01	< .01	< .03	0.0006	0.07	< .005		< .01			< .02		< .07	0.002	0.02
M-SP07	8/5/2003	0.22		< .03	< .05																		
M-SP07	10/7/2003	0.21		< .03	< .05																		
M-SP07	10/7/2003		< .2				2.5	0.02	0.03	0.02	< .03	0.0007	0.07	< .005		< .01			< .02		< .07	0.0024	0.02
M-SP07	5/10/2004																						
M-SP07	5/10/2004		< .2				< .02	< .02	< .01	< .01	< .1	0.0008	0.08	< .005		< .01			< .02		< .07	0.0019	< .01
M-SP07	5/13/2004	0.14		< .03	< .05																		
M-SP08	6/20/2001																						
M-SP08	8/29/2001						0.1																
M-SP08	5/3/2002						0.8																
M-SP08	9/26/2002	0.14		< .03	< .05																		
M-SP08	9/26/2002		< .2				0.02	< .02	< .01	< .01	0.05	0.0014	0.09	< .005		< .01			< .02		< .07	0.0034	< .01
M-SP08	11/12/2002																						
M-SP08	5/20/2003	0.13		< .03	< .05																		
M-SP08	5/20/2003		< .2				0.03	< .02	< .01	< .01	< .03	0.0013	0.08	< .005		< .01			< .02		< .07	0.0044	0.01
M-SP08	8/5/2003		< .2				1.4	< .02	0.05	0.01	< .03	0.0013	0.08	< .005		< .01			< .02		< .07	0.0028	< .01
M-SP08	8/5/2003	0.18		< .03	< .05																		
M-SP08	10/7/2003	0.07		< .03	< .05																		
M-SP08	10/7/2003		< .2				0.94	0.07	0.03	0.02	< .03	0.0011	0.07	< .005		< .01			< .02		< .07	0.0021	0.01
M-SP08	5/10/2004																						
M-SP08	5/10/2004		< .2				0.23	< .02	0.01	< .01	< .1	0.0012	0.11	< .005		< .01			< .02		< .07	0.0033	< .01
M-SP08	5/13/2004	0.11		< .03	< .05																		
M-SP09	6/20/2001																						
M-SP09	8/29/2001																						
M-SP09	5/3/2002																						
M-SP09	9/26/2002																						
M-SP09	5/20/2003																						
M-SP09	10/7/2003																						

Site	Date	T-Ca mg/l	T-Mg mg/l	T-K mg/l	T-Na mg/l	Other Parameters Acidity mg/l	CN mg/l	OH mg/l	T-Alk mg/l	T-Hard mg/l	Turb NTU	D.O. mg/l	TSS mg/l
M-SP01	6/19/2001										0.24		
M-SP01	8/28/2001	83	40	1	44				387		0.6		
M-SP01	5/1/2002	80	39	2	43				388				
M-SP01	9/25/2002					33			385			2.17	
M-SP01	9/25/2002	88	43	1.9	48					400			
M-SP01	11/12/2002					35			374			2.83	
M-SP01	11/12/2002	80	40							360			
M-SP01	5/21/2003					23					9.99	3.1	
M-SP01	5/21/2003	81	40	1.9	45				380	370			
M-SP01	8/5/2003					24			381				
M-SP01	8/8/2003	82	40					< 1.	420	370	0.15	2.51	
M-SP01	10/7/2003					36			397		1.82	2.03	
M-SP01	10/7/2003	86	42	1.9	48					390			
M-SP01	5/11/2004					17			403			3.29	
M-SP01	5/11/2004	85	42	1.9	49				400	380			
M-SP01	5/13/2004												
M-SP02	6/19/2001										0.08		
M-SP02	8/28/2001	80	33	2	52				370				
M-SP02	5/1/2002	81	33	2	53				385				
M-SP02	9/25/2002												
M-SP02	11/12/2002												
M-SP02	5/20/2003					56					13.68	5.78	
M-SP02	5/20/2003	82	34	2.1	58				370	340			
M-SP02	8/5/2003					23			376				
M-SP02	8/8/2003	79	34					< 1.	420	340	0.15	5.7	
M-SP02	10/7/2003												
M-SP02	5/11/2004					14			379		0.25	4.82	
M-SP02	5/11/2004	80	34	4.8	59				370	330			
M-SP02	5/13/2004												
M-SP07	6/20/2001										1.02		
M-SP07	8/29/2001	64	43	2	88				459		2.25		
M-SP07	5/3/2002	83	42	3	79				449		11.5		
M-SP07	9/26/2002					13			426		1.8	5.21	
M-SP07	9/26/2002	64	43	2.3	86					340			
M-SP07	11/12/2002					23			453		3.9	4.94	
M-SP07	11/12/2002	62	41							320			
M-SP07	5/20/2003					22					6.25	6.17	
M-SP07	5/20/2003	62	41	2	83				430	310			
M-SP07	8/5/2003	63	41					< 1.	440	310	0.95	6.03	
M-SP07	8/5/2003					17			415				
M-SP07	10/7/2003					9			423		0.56	7.02	
M-SP07	10/7/2003	63	42	2.8	81					330			
M-SP07	5/10/2004					32			433		0.53	6.28	
M-SP07	5/10/2004	65	42	2.1	86				440	330			
M-SP07	5/13/2004												
M-SP08	6/20/2001										7.58		
M-SP08	8/29/2001	70	39	2	91				279		2.04		
M-SP08	5/3/2002	71	38	2	101				463		3.5		
M-SP08	9/26/2002					7			424			5.8	
M-SP08	9/26/2002	71	39	2.8	90					340			
M-SP08	11/12/2002												
M-SP08	5/20/2003					21					0.66	2.93	
M-SP08	5/20/2003	71	39	2.1	110				460	330			
M-SP08	8/5/2003	75	39					< 1.	450	310	21	2.86	
M-SP08	8/5/2003					35			427				
M-SP08	10/7/2003					15			431		2.08	2.54	
M-SP08	10/7/2003	69	37	2.4	85					320			
M-SP08	5/10/2004					18			462			5.42	
M-SP08	5/10/2004	69	38	6.7	120				470	320			
M-SP08	5/13/2004												
M-SP09	6/20/2001										1.43,		
M-SP09	8/29/2001												
M-SP09	5/3/2002										141		
M-SP09	9/26/2002												
M-SP09	5/20/2003												
M-SP09	10/7/2003												

Date	Flow gpm	T °C	pH S.U.	Cond. µS/cm	TDS mg/l	Ca^{2+} mg/l	Mg^{2+} mg/l	Na^{+} mg/l	K^{+} mg/l	HCO_3^- mg/l	CO_3^{2-} mg/l	SO_4^{2-} mg/l	Cl mg/l	NO2+NO3 mg/l	NH3 mg/l	NO2 mg/l	O-PO4 mg/l	T-P mg/l	T-Fe mg/l	D-Fe mg/l	T-Mn mg/l	D-Mn mg/l	D-Al mg/l	D-As mg/l	D-B mg/l	D-Cd mg/l	D-Cr mg/l	D-Cu mg/l	T-Hg ug/l	D-Hg ug/l	D-Mb mg/l	D-Ni mg/l	D-Pb mg/l	D-Se mg/l	D-Zn mg/l	T-Ca mg/l	T-Mg mg/l	T-K mg/l	T-Na mg/l	Acidity mg/l	CN mg/l	OH mg/l	T-Alk mg/l	T-Hard mg/l	Turb NTU	D.O. mg/l	TSS mg/l
M-SP09	0																																															
5/10/2004																		<.1																														
																		<.1																														
M-SP10	0.532	15	7.75	610						428	<5.	29	85																																		
M-SP10	0.489	7.8	7.76	526						429	<5.	29	75																																		
M-SP10	0.42	8.5	7.99	490	531					429	<5.	29	68	0.19																																	
M-SP10	0.238	7.7	7.84	833	469					403	<5.	25	70		<.03	<.05																															
9/25/2002					456					420	<1.	27		0.22	<.03	<.05																															
M-SP10						49	40	84	2.5	512	<5.	27	73	<.2	<.03	<.05																															
11/13/2002	0.244	3.8	7.55	814	448					420	<1.	27		0.17	<.03	<.05																															
M-SP10						47	38	80	2.4					<.2																																	
11/13/2002					510									<.2	<.03	<.05																															
M-SP10	0.243	5.8	7.56	509																																											
5/20/2003						49	40	92	2.5	440	<1.	28	66																																		
M-SP10	0.224	9.9	7.7	500		46	38	84	2.3	430	4	27	67																																		
8/5/2003					420					409	<5.			0.16																																	
M-SP10					464					415	<5.			0.21																																	
10/7/2003	0.275	6.7	7.67	846											<.03	<.05																															
M-SP10						49	39	86	2.5	468	<5.	24	62	<.2				<.02	<.02	<.01	<.01	<.03	0.0007	0.05	<.005		<.01		<.02			<.07	0.0036	0.01	49	39	2.5	86									
M-SP10	0.271	6.1	7.52	538														<.02	<.02	<.01	<.01	<.03	0.0008	0.05	<.005		<.01		<.02			<.07	0.0035	0.01	46	38												
5/10/2004															<.03	<.05																															
M-SP10					473					460	<2.	30	69	<.2																																	
5/13/2004						51	41	98	2.4					0.18	<.03	<.05																															
M-SP18	0.34	6.6	6.96	728																																											
M-SP18	0.212	8.3	7.58	726	865					431	<5.	261	833																																		
M-SP18	0.33	6.8	7.23	1274	868					346	<5.	316	70																																		
9/25/2002																		0.2																													
M-SP18																		0.7																													
11/12/2002	0																																															
M-SP18	0.147	5.5	7.35	748	879																																										
5/20/2003						130	45	96	5.2	350	<1.	260	73	0.08	<.03	<.05			37	0.03	0.24	0.01	<.03	0.0015	0.06	<.005		<.01		<.02			<.07	0.0044	0.01	130	45	5.7	96									
M-SP18										344	<5.			0.07	<.03	<.05																															
8/6/2003					830					350	<1.	300	78	<.2					0.07	0.04	<.01	0.01	<.03	0.001	0.08	<.005		<.01		<.02			<.07	0.003	<.01	120	42				13								
M-SP18	0.344	10	7.34	748		120	41	88	5.1	350	<5.			0.07	<.03	<.05																															
10/6/2003	0.47	6.9	7.26	1276	876					350	<1.	300	72	<.2	<.03	<.05			0.57	0.08	0.01	<.01	<.03	0.0007	0.08	<.005		<.01		<.02			<.07	0.0032	0.01	140	46	5.6	100									
M-SP18						120	42	90	5.2		<5.			0.08	<.03	<.05																								11							
5/11/2004	0.463	4.2	7.47	728	883					329	<5.	300	81	<.2					1.2	<.02	<.01	<.01	<.1	0.0029	0.07	<.005		<.01		<.02			<.07	0.0088	0.01	130	44	6.6	95									
M-SP18						130	44	96	5.2	350	<1.	330																												12							
5/11/2004																		0.1																													
M-SP39	1.068	7.1	7.16	590	604					552	<5.	67	63					0.2																													
M-SP39	4.663	5.3	7.48	603	554					520	<5.	70	61																																		
M-SP39	0.441	6.5	7.56	1011	563					504	<5.	68	60	0.1	<.03	<.05			0.02	<.02	<.01	<.01	0.06	0.002	0.09	<.005		<.01		<.02			<.07	0.0073	0.06	77	49	2.2	88									
9/25/2002										520	<1.	68	60																																		
M-SP39					596					403	<5.			0.04	<.03	<.05																								23							
11/13/2002	0.566	5.8	7.36	986	553					510	<1.	67	61	<.2	<.03	<.05			0.02	<.02	<.01	<.01	0.05	<.1	0.08	<.005		<.01		<.02			<.07	<.1	0.01	73	46											
M-SP39						73	48	82	2.1					0.05	<.03	<.05																															
11/13/2002														<.2					<.02	<.02	<.01	<.01	<.03	0.0013	0.06	<.005		<.01		<.02			<.07	0.0051	0.01	78	50	2.1	88									
M-SP39	2.374	5.7	7.43	573	609					510	<1.	68	57																											13							
5/20/2003						79	50	88	2.1	503	<5.			<.03	<.03	<.05																															
M-SP39					596					550	<1.	75	62	<.2					<.02	<.02	<.01	<.01	<.03	0.0007	0.07	<.005		<.01		<.02			<.07	0.0032	<.01	74	46											
M-SP39	0.509	6.4	7.4	585		74	46	83	2	519	<5.			0.03	<.03	<.05																								16							
8/6/2003														<.2					0.09	0.06	0.01	0.01	<.03	0.0005	0.07	<.005		<.01		<.02			<.07	0.0035	0.07	80	49	2.2	90									
M-SP39						78	48	87	2.2					0.04	<.03	<.05																								18							
10/7/2003	0.268	6.2	7.39	1035	595					519	<5.			<.2					0.09	0.06	0.01	0.01	<.03	0.0005	0.07	<.005		<.01		<.02			<.07	0.0031	0.01	52	41	2.5	99									
M-SP39					1214					488	<5.			<.2	<.03	<.05			<.02	<.02	<.01	<.01	<.1	0.0014	0.08	<.005		<.01		<.02			<.07	0.0044	0.02	80	50	2.2	89									
5/12/2004	0.446	5.7	7.54	604						530	<1.	76	64																																		
M-SP53						80	50	89	2.1					<.2																																	
10/24/2001																																															
M-SP53	0.109	4.5	7.81	15																																											
5/2/2002																																															
M-SP53																																															
9/27/2002																																															
M-SP53	0.101	6.7	7.66	381																																											
5/21/2003																																															
M-SP53	0.48	8.5	7.69	694																																											
9/27/2003																																															
M-SP53																																															
6/6/2004																																															
M-SP59	0.372	3.4	7.58	446																																											
10/24/2001																																															
M-SP59																																															
5/2/2002	0																																														
M-SP59	0.117	6.4	7.6	451																																											
9/27/2002																																															
M-SP59	0.216	8.5	8.04	478																																											
5/21/2003																																															
M-SP59	0.69	7.1	7.92	859																																											
9/27/2003																																															
M-SP59	0.173	7.4	8.08	509																																											
6/6/2004																																															
GW-13	0.52	9	7.72	1344	850					540	20	140	56																																		
6/5/1995																																															
GW-13	0.41	10	7.85	1325	770	67	42	189	3	560	10	142	54																																		
8/23/1995																																															
GW-13	0.45	10	7.5	1353	790					585	<5.	175	56																																		
10/31/1995																																															
GW-13	0.449	13	8.22	1351	801					559	8	142	56																																		
8/26/1996																																															
GW-13	0.6	8.5	7.95	1318																																											
6/3/1997																																															
GW-13	0.269	16	7.85	1335	780					581	<5.	150	57																																		
8/18/1997																																															
GW-13	0.898	6.7	6.86	1320	800					585	<5.	150	56																																		
10/8/1997																																															
GW-13	1.76	14	8.11	1292	830					576	<5.	185	57																																		
6/20/1998																																															
GW-13	1.5	15	7.61	1335																																											
8/5/1998																																															
GW-13	0.804	7.1	7.25	1292																																											
10/3/1998																																															
GW-13	0.003	11	7.65	1334																																											
6/30/1999																																															

Site	Date	Flow gpm	T °C	pH S.U.	Cond. µS/cm	TDS mg/l	Ca^{2+} mg/l	Mg^{2+} mg/l	Na^{+} mg/l	K^{+} mg/l	HCO_3^- mg/l	CO_3^{2-} mg/l	SO_4^{2-} mg/l	Cl^- mg/l	NO2+NO3 mg/l	NH3 mg/l	NO2 mg/l	O-PO4 mg/l
GW-13	8/12/1999	1.795	11	7.69	1337													
GW-13	10/4/1999	0.898	9.9	7.58	1328													
GW-13	6/22/2000	0.002	7	7.61	1302													
GW-13	8/1/2000	0.583	10	7.86	1333													
GW-13	10/6/2000	0.583	7	7.24	1310													
GW-13	6/12/2001	0.882	6	7.89	1351													
GW-13	8/22/2001	0.597	12	7.62	135													
GW-13	10/1/2001	0.316	7.6	7.86	1205													
GW-13	5/8/2002	0.519	4.2	7.96	1187													
GW-13	9/21/2002	0.361	6.9	8.25	1335													
GW-13	10/9/2002	0.332	5.7	7.58	1347													
GW-13	6/6/2003	0.125	8.8	8.47	1209													
GW-13	8/4/2003	0.353	9.9	8.18	1243													
GW-13	10/17/2003	0.359	6.8	7.73	1346													
GW-13	6/25/2004	0.331	9.6	8.19	1315													
GW-13	8/12/2004	1.58	11	8.19	1358													
GW-13	11/2/2004	0.247	1.0	7.46	1253													
M-STR4	6/7/2001	71.081	19	8.55	386	353					344	17	22	23	< .03		< .03	< .05
M-STR4	6/7/2001																	
M-STR4	6/7/2001																	
M-STR4	6/22/2001	11.719																
M-STR4	8/16/2001	0																
M-STR4	8/31/2001	0																
M-STR4	9/27/2001	0																
M-STR4	10/28/2001	0																
M-STR4	4/17/2002	13.005	6.2	8.87	470	548					431	11	68	47	< .03			
M-STR4	4/17/2002																	
M-STR4	5/3/2002																	
M-STR4	6/4/2002	3.037	18	8.83	514	513					361	17	71	60	< .03			
M-STR4	6/4/2002																	
M-STR4	8/8/2002	0																
M-STR4	9/25/2002	0																
M-STR4	11/12/2002	0																
M-STR4	5/6/2003	79.9	8	8.74	599	399					346	13			< .03		< .03	< .05
M-STR4	5/6/2003						50	27	49	2	360	5	25	18		< .2		
M-STR4	6/20/2003	14.231	8.4	8.65	792	429					410	13	37	36	0.05			< .05
M-STR4	6/20/2003												35	35				
M-STR4	8/6/2003	0																
M-STR4	10/8/2003	0																
M-STR4	5/11/2004	717.26	12	8.82	445	280					281	6						
M-STR4	5/11/2004						52	18	27	1.6	280	8	9.3	5.6		< .2		
M-STR4	5/13/2004														< .03		< .03	< .05
M-STR5	8/8/2002	1.412	9.5	6.5	346	329					312	7	37	26	0.16			
M-STR5	8/8/2002																	
M-STR5	9/25/2002	1.717	7	8.38	353	352					326	< 5.	36	27	0.17		< .03	< .05
M-STR5	9/25/2002						52	35	32	2	320	10	37	27		< .2		
M-STR5	10/6/2002																	
M-STR5	11/12/2002		0.5	8.25	329	381					328	< 5.			0.27		< .03	< .05
M-STR5	11/12/2002						55	36	33	2	350	< 1.	39	29		< .2		
M-STR5	5/6/2003	61.6	6.1	8.73	616	405					363	11			< .03		< .03	< .05
M-STR5	5/6/2003						51	28	52	2.1	360	6	20	17		< .2		
M-STR5	6/19/2003	2.686	10	8.56	605	345					304	10	32	26	0.03			< .05
M-STR5	6/19/2003												33	22				
M-STR5	8/5/2003	2.043	10	8.35	610	329					316	6			0.12		< .03	< .05
M-STR5	8/6/2003						54	34	34	2.2	350	7	36	25		< .2		
M-STR5	10/6/2003	1.534	6	8.47	356	366					342	< 5.			0.09		< .03	< .05
M-STR5	10/6/2003						55	35	32	2			34	23		< .2		
M-STR5	5/11/2004	598.48	10	8.82	446	290					272	5			< .03		< .03	< .05
M-STR5	5/11/2004						52	18	27	1.7	290	< 1.	9.1	5.6		< .2		

Site	Date	T-P mg/l	T-Fe mg/l	D-Fe mg/l	T-Mn mg/l	D-Mn mg/l	D-Al mg/l	D-As mg/l	D-B mg/l	D-Cd mg/l	D-Cr mg/l	D-Cu mg/l	T-Hg ug/l	D-Hg ug/l	D-Mb mg/l	D-Ni mg/l	D-Pb mg/l	D-Se mg/l	D-Zn mg/l
GW-13	8/12/1999																		
GW-13	10/4/1999																		
GW-13	6/22/2000																		
GW-13	8/1/2000																		
GW-13	10/6/2000																		
GW-13	6/12/2001																		
GW-13	8/22/2001																		
GW-13	10/1/2001																		
GW-13	5/8/2002																		
GW-13	9/21/2002																		
GW-13	10/9/2002																		
GW-13	6/6/2003																		
GW-13	8/4/2003																		
GW-13	10/17/2003																		
GW-13	6/25/2004																		
GW-13	8/12/2004																		
GW-13	11/2/2004																		
M-STR4	6/7/2001	< .05	< .1																
M-STR4	6/7/2001																		
M-STR4	6/7/2001						0.03	0.0011		< .0005	0	0		< .2		0	< .005	0.0006	< .01
M-STR4	6/22/2001																		
M-STR4	8/16/2001																		
M-STR4	8/31/2001																		
M-STR4	9/27/2001																		
M-STR4	10/28/2001																		
M-STR4	4/17/2002	< .05	0.2		< .05														
M-STR4	4/17/2002						0.07	< .0005		< .0005	< .005	< .005		< .2		0	< .001	0.0016	< .01
M-STR4	5/3/2002																		
M-STR4	6/4/2002	0.1	0.4																
M-STR4	6/4/2002						0.06	0.1		< .005	< .005	< .01		< .4		< .01	< .07	< .1	< .01
M-STR4	8/8/2002																		
M-STR4	9/25/2002																		
M-STR4	11/12/2002																		
M-STR4	5/6/2003																		
M-STR4	5/6/2003	0.02	0.29	< .02	0.02	0.01	< .03	< .1	< .05	< .005	< .005	< .01		< .2	< .02	< .01	< .07	< .1	0.01
M-STR4	6/20/2003																		
M-STR4	6/20/2003	0.01	0.18				< .03	0.0014		< .0005	< .005	< .01		< .2		0.01	< .001	0.0013	< .01
M-STR4	8/6/2003																		
M-STR4	10/8/2003																		
M-STR4	5/11/2004																		
M-STR4	5/11/2004	0.05	0.57	< .02	0.03	0.01	< .1	0.0008	< .05	< .005	< .005	< .01		< .2	< .02	< .01	< .07	0.0006	0.01
M-STR4	5/13/2004																		
M-STR5	8/8/2002	< .05	< .1		< .05														
M-STR5	8/8/2002						0.04	< .002		< .001	0	< .001		< .2		0.01	< .001	< .002	0.08
M-STR5	9/25/2002																		
M-STR5	9/25/2002	0.01	0.13	< .02	< .01	< .01	0.05	0.0009	0.06	< .005	< .005	< .01		< .2	< .02	< .01	< .07	0.0035	0.01
M-STR5	10/6/2002																		
M-STR5	11/12/2002																		
M-STR5	11/12/2002		0.02	< .02	< .01	< .01	0.03	< .1	0.05	< .005		< .01			< .02		< .07	< .1	0.01
M-STR5	5/6/2003																		
M-STR5	5/6/2003	0.02	0.46	< .02	0.02	< .01	< .03	< .1	< .05	< .005	< .005	< .01		< .2	< .02	< .01	< .07	< .1	< .01
M-STR5	6/19/2003																		
M-STR5	6/19/2003	0.02	0.02				< .03	0.0009		< .0005	< .005	< .01		< .2		0.01	< .001	0.002	0.01
M-STR5	8/5/2003																		
M-STR5	8/6/2003	0.05	0.68	< .02	0.02	< .01	< .03	0.0008	0.05	< .005	< .005	< .01		< .2	< .02	< .01	< .07	0.0022	< .01
M-STR5	10/6/2003																		
M-STR5	10/6/2003	0.02	0.07	< .02	0.01	< .01	< .03	0.0006	0.05	< .005	< .005	< .01	< .2		< .02	0.01	< .07	0.002	< .01
M-STR5	5/11/2004																		
M-STR5	5/11/2004	0.05	0.63	< .02	0.02	< .01	< .1	0.0008	< .05	< .005	< .005	< .01		< .2	< .02	< .01	< .07	0.0006	0.02

Site	Date	T-Ca mg/l	T-Mg mg/l	T-K mg/l	T-Na mg/l	Acidity mg/l	CN mg/l	OH mg/l	T-Alk mg/l	T-Hard mg/l	Turb NTU	D.O. mg/l	TSS mg/l
GW-13	8/12/1999												
GW-13	10/4/1999												
GW-13	6/22/2000												
GW-13	8/1/2000												
GW-13	10/6/2000												
GW-13	6/12/2001												
GW-13	8/22/2001												
GW-13	10/1/2001												
GW-13	5/8/2002												
GW-13	9/21/2002												
GW-13	10/9/2002												
GW-13	6/6/2003												
GW-13	8/4/2003												
GW-13	10/17/2003												
GW-13	6/25/2004												
GW-13	8/12/2004												
GW-13	11/2/2004												
M-STR4	6/7/2001	39	34	1	56				310		3.08	6.84	
M-STR4	6/7/2001						< .002						
M-STR4	6/7/2001												
M-STR4	6/22/2001												
M-STR4	8/16/2001												
M-STR4	8/31/2001												
M-STR4	9/27/2001												
M-STR4	10/28/2001												
M-STR4	4/17/2002	58	41	2	79				372		7.49	9.19	
M-STR4	4/17/2002						< .002						
M-STR4	5/3/2002												
M-STR4	6/4/2002	34	42	3	87				325		2.8	5.23	
M-STR4	6/4/2002						< .002						
M-STR4	8/8/2002												
M-STR4	9/25/2002												
M-STR4	11/12/2002												
M-STR4	5/6/2003					< 5.			306		13.6	8.56	17
M-STR4	5/6/2003	60	32	2.3	55		0	< 1.	300	240			
M-STR4	6/20/2003								358		4.73	8.92	
M-STR4	6/20/2003	56	43	2.6	75		< .002						
M-STR4	8/6/2003												
M-STR4	10/8/2003												
M-STR4	5/11/2004					< 5.			240		76.3	8.12	21
M-STR4	5/11/2004	55	19	1.9	25		< .002		240	200			
M-STR4	5/13/2004												
M-STR5	8/8/2002	51	34	2	31				267		1.56	8.45	
M-STR5	8/8/2002						0						
M-STR5	9/25/2002					< 5.			267		4	8.21	6
M-STR5	9/25/2002	53	35	2	33					300			
M-STR5	10/6/2002						< .002						
M-STR5	11/12/2002					< 5.			277		2.32	11.18	8
M-STR5	11/12/2002	55	36							290			
M-STR5	5/6/2003					< 5.			316		22.5	9.04	31
M-STR5	5/6/2003	60	33	2.6	59		< .002	< 1.	300	240			
M-STR5	6/19/2003								265		1.37	8.04	
M-STR5	6/19/2003	51	34	2.3	37		< .002						
M-STR5	8/5/2003					< 5.			270			8.5	400
M-STR5	8/6/2003	58	36	2.5	34		< .002	< 1.	300	270			
M-STR5	10/6/2003					< 5.			280		3.99	7.23	11
M-STR5	10/6/2003	55	35	2.1	32		< .002			280			
M-STR5	5/11/2004					< 5.			232		17.4	8.07	49
M-STR5	5/11/2004	54	19	2	25		< .002		240	200			

Table 3 Average discharge and major-ion compositions for springs and streams in the SITLA Muddy Tract area.

						Major Ions							
	Flow	T	pH	Cond.	TDS	Ca^{2+}	Mg^{2+}	Na^{+}	K^{+}	HCO_3^{-}	CO_3^{2-}	SO_4^{2-}	Cl^{-}
	gpm	°C	S.U.	µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Springs													
M-SP01	0.4	7.1	7.3	562	474	83.5	41.33	46.17	1.8	479	<5	27.1	42.1
M-SP02	3.0	8.5	7.403	476	480	79.33	33.67	56.67	2.0	467	<5	36.2	39.0
M-SP07	0.5	5.7	7.5	656	508	62.2	40.8	83.3	1.9	530	<5	29.1	30.0
M-SP08	0.5	7.5	7.6	658	513	67.2	37.2	98.6	2.3	523	<5	29.8	47.0
M-SP09	0.2	5.8	8.0	447									
M-SP10	0.3	7.9	7.7	630	471	48.5	39.3	87.3	2.4	436	<5	27.3	70.6
M-SP18	0.3	6.9	7.3	890	867	125	43	92.5	5.2	356	<5	295	201
M-SP39	1.3	6.1	7.4	748	661	77.0	48.5	86.2	2.1	509	<5	69.3	60.4
M-SP53	0.2	6.6	7.7	363									
M-SP59	0.3	6.6	7.8	549									
GW-13	0.6	9.1	7.8	1268	803	67.0	42.0	189.0	3.0	569	12.7	155	56.0
Streams													
M-STR4	56.9	12	8.7	534	420	51.0	22.5	38.0	1.8	352	11.3	38.2	32.1
M-STR5	95.6	7.5	8.3	458	350	53.2	31.0	35.0	2.0	326	7.8	31.3	22.8

Table 4 Isotopic compositions of groundwaters and surface waters in the SITLA Muddy Tract area.

		δ^2H (‰)	$\delta^{18}O$ (‰)	Tritium (TU)	$\delta^{13}C$ (‰)	^{14}C (pmC)	Groundwater "age" radiocarbon years
Springs, Muddy Tract Area							
SITLA Muddy Tract Area							
M-SP07	9/26/2001	-123	-16.4	12.7	-10.8	93.31	modern
M-SP08	9/26/2001	-120	-16.4	13.3	-11.2	95.69	modern
M-SP10	10/4/2001	-125	-17.1	11.6	-12.2	91.15	modern
M-SP39	10/4/2001	-123	-16.6	7.7	-10.5	88.34	modern
Muddy Tract Area							
M-SP01	10/4/2001	-120	-16.1	5	-11.9	96.27	modern
M-SP02	10/4/2001	-120	-16.1	14.6	-12.6	98.15	modern
M-SP04	10/4/2001	-124	-16.3	7.7	-11.1	84.4	modern
M-SP14	9/26/2001	-117	-15.7	8	-14.1	107.73	modern
M-SP18	10/4/2001	-129	-17.4	-0.7	-12.4	78.89	modern
M-SP38	10/5/2001	-127	-17.2	9.6	-12.5	62.11	modern
Springs, Pines Area							
Pines 100	6/28/1997	-116.0	-15.8	5.15	-14.1	103.51	modern
Pines 105	6/28/1997	-116.0	-16.1	6.48	-15.6	92.55	modern
Pines 204	6/27/1997	-119.0	-16.3	0.74	-9.5	49.9	modern
Pines 206	10/29/1997			0.52	-10.9	38.40	3,000
Pines 214	6/27/1997	-116	-15.8	8.55	-10.1	62.32	modern
Pines 303	6/27/1997	-117.5	-16.2	0.2	-9.9	30.27	4,000
Pines 310	11/3/1997	-118.8	-15.8	16.4	-14.0	108.69	modern
Sufco Mine underground							
Box Canyon Area							
14 Left Setup Room	9/20/2000			0.07	-9.9	31.42	4,000
14 Left E2 XC101	9/20/2000			0.01	-10.2	24.45	6,000
Quitchupah Area							
12L 4E E3 C74 1/2	9/18/1997	-120.06	-16.22	-0.07	-11.2	21.07	7,500
12L 4E fault	9/18/1997	-118.55	-16.12	-0.02	-7.1	20.38	7,500
13L 4E E2 C53	12/7/1998			-0.02	-7.2	6.28	15,000

Table 5 Recommended monitoring program for the SITLA Muddy Tract.

Site	Protocol	Comments
Springs		
M-SP01	D, 3	Price River Formation
M-SP02	D, 3	Price River Formation
M-SP08	D, 3	North Horn Formation
M-SP18	D, 3	North Horn Formation
M-SP39	D, 3	Price River Formation
M-SP53	D, 3	North Horn Formation
GW-13	D, 3	North Horn Formation
Creeks		
M-STR4	C,1	Upper Cowboy Creek
Monitoring Wells		
01-8-1	A	Screened in Blackhawk Formation
89-18-1	A	Screened in Blackhawk Formation

Table 6 Field and laboratory measurement protocol.

Water level and flow measurements

A Monitoring well: quarterly water level measurements
B Monitoring well: annual water level measurement (3rd quarter)
C Stream: quarterly discharge measurements
D Spring: quarterly discharge measurements
E Spring Pool: quarterly water level measurement
F Stream: weekly measurements in 1999 June through October, thereafter monthly July through October until two years after mining ceases in the area or subsidence is deemed reasonably complete, whichever comes first

Water quality

1 Stream: quarterly surface water quality field measurements
2 Stream: quarterly surface water quality operational laboratory measurements
3 Spring: quarterly groundwater quality field measurements
4 Spring: quarterly groundwater quality operational laboratory measurements
5 Spring: groundwater quality operational laboratory measurements for two (2) years; then reverting to quarterly water quality field measurements
6 Stream; water quality field measurements

Table 7 Recommended groundwater discharge and field water-quality measurements.

FIELD MEASUREMENTS	REPORTED AS
Discharge	gpm
pH	pH units
Specific Conductivity	µs/cm @ 25°C
Temperature	°C

Table 8 Recommended surface water discharge and field water-quality measurements.

FIELD MEASUREMENTS	REPORTED AS
Flow	gpm
pH	pH units
Specific Conductivity	µs/cm @ 25°C
Dissolved Oxygen	mg/l
Temperature	°C

Field Data Muddy Springs

Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's_	Comments
M_SP01	36	1	FLD	06192001	06192001	1	Water Temperature		13.7	Deg. C	06/19/2001	1417	20	BH, ED	
M_SP01	36	1	FLD	06192001	06192001	2	pH		7.42	pH units	06/19/2001	1417	20	BH, ED	
M_SP01	36	1	FLD	06192001	06192001	4	Spec. Conductivity		532	umhos/cm	06/19/2001	1417	20	BH, ED	
M_SP01	36	1	FLD	06192001	06192001	11	Flow		0.503	gpm	06/19/2001	1417	20	BH, ED	
M_SP01	36	1	FLD	06192001	06192001	66	Turbidity		0.24	NTU	06/19/2001	1417	20	BH, ED	
M_SP01	36	1	CTE	59-23145	N/A	1	Water Temperature		8.0	Deg. C	08/28/2001	1110	04	ED	
M_SP01	36	1	CTE	59-23145	N/A	2	pH		7.53	pH units	08/28/2001	1110	04	ED	
M_SP01	36	1	CTE	59-23145	N/A	4	Spec. Conductivity		497	umhos/cm	08/28/2001	1110	04	ED	
M_SP01	36	1	CTE	59-23145	N/A	11	Flow		0.373	gpm	08/28/2001	1110	04	ED	
M_SP01	36	1	CTE	59-23145	N/A	66	Turbidity		0.60	NTU	08/28/2001	1110	04	ED	
M_SP01	36	1	CTE	59-23955	N/A	1	Water Temperature		5.1	Deg. C	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	N/A	2	pH		7.27	pH units	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	N/A	4	Spec. Conductivity		451	umhos/cm	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	N/A	11	Flow		0.450	gpm	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	N/A	66	Turbidity		0.00	NTU	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-24553	02-U009460	1	Water Temperature		7.5	Deg. C	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	02-U009460	2	pH		7.40	pH units	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	02-U009460	3	D.O.		2.17	mg/l	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	02-U009460	4	Spec. Conductivity		851	umhos/cm	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	02-U009460	11	Flow		0.324	gpm	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	02-U009460	66	Turbidity		0.00	NTU	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24800	02-U011436	1	Water Temperature		5.1	Deg. C	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	02-U011436	2	pH		7.33	pH units	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	02-U011436	3	D.O.		2.83	mg/l	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	02-U011436	4	Spec. Conductivity		815	umhos/cm	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	02-U011436	11	Flow		0.408	gpm	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	02-U011436	66	Turbidity		0.00	NTU	11/12/2002	1123	04	AB	
M_SP01	36	1	NOA	03112003	03112003						03/11/2003		11	MM	
M_SP01	36	1	NOA	03272003	03272003						03/27/2003		11	MM	
M_SP01	36	1	CTE	59-25175	03-U004451	1	Water Temperature		4.3	Deg. C	05/21/2003	0920	04	ED, MM	
M_SP01	36	1	CTE	59-25175	03-U004451	2	pH		7.26	pH units	05/21/2003	0920	04	ED, MM	
M_SP01	36	1	CTE	59-25175	03-U004451	3	D.O.		3.10	mg/l	05/21/2003	0920	04	ED, MM	
M_SP01	36	1	CTE	59-25175	03-U004451	4	Spec. Conductivity		435	umhos/cm	05/21/2003	0920	04	ED, MM	
M_SP01	36	1	CTE	59-25175	03-U004451	11	Flow		0.517	gpm	05/21/2003	0920	04	ED, MM	
M_SP01	36	1	CTE	59-25175	03-U004451	66	Turbidity		9.99	NTU	05/21/2003	0920	04	ED, MM	
M_SP01	36	1	CHE	59-25530	03-U007015	1	Water Temperature		7.9	Deg. C	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	59-25530	03-U007015	2	pH		7.10	pH units	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	59-25530	03-U007015	3	D.O.		2.51	mg/l	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	59-25530	03-U007015	4	Spec. Conductivity		490	umhos/cm	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	59-25530	03-U007015	11	Flow		0.539	gpm	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	59-25530	03-U007015	66	Turbidity		0.15	NTU	08/08/2003	1715	04	AB	
M_SP01	36	1	CTE	59-25788	03-U009441	1	Water Temperature		7.6	Deg. C	10/07/2003	1700	04	JS, RG	
M_SP01	36	1	CTE	59-25788	03-U009441	2	pH		7.32	pH units	10/07/2003	1700	04	JS, RG	
M_SP01	36	1	CTE	59-25788	03-U009441	3	D.O.		2.03	mg/l	10/07/2003	1700	04	JS, RG	
M_SP01	36	1	CTE	59-25788	03-U009441	4	Spec. Conductivity		500	umhos/cm	10/07/2003	1700	04	JS, RG	
M_SP01	36	1	CTE	59-25788	03-U009441	11	Flow		0.287	gpm	10/07/2003	1700	04	JS, RG	
M_SP01	36	1	CTE	59-25788	03-U009441	66	Turbidity		1.82	NTU	10/07/2003	1700	04	JS, RG	
M_SP01	36	1	NOA	02212004	02212004						02/21/2004		11	MM	
M_SP01	36	1	NOA	03242004	03242004						03/24/2004		11	JS	
M_SP01	36	1	CTE	59-26322	04-U004621	1	Water Temperature		4.5	Deg. C	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26322	04-U004621	2	pH		7.34	pH units	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26322	04-U004621	3	D.O.		3.29	mg/l	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26322	04-U004621	4	Spec. Conductivity		489	umhos/cm	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26322	04-U004621	11	Flow		0.621	gpm	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26322	04-U004621	66	Turbidity		0.00	NTU	05/11/2004	1025	04	AB	
M_SP02	36	2	FLD	06192001	06192001	1	Water Temperature		10.7	Deg. C	06/19/2001	1315	20	BH, ED	
M_SP02	36	2	FLD	06192001	06192001	2	pH		7.43	pH units	06/19/2001	1315	20	BH, ED	
M_SP02	36	2	FLD	06192001	06192001	4	Spec. Conductivity		497	umhos/cm	06/19/2001	1315	20	BH, ED	
M_SP02	36	2	FLD	06192001	06192001	11	Flow		9.274	gpm	06/19/2001	1315	20	BH, ED	
M_SP02	36	2	FLD	06192001	06192001	66	Turbidity		0.08	NTU	06/19/2001	1315	20	BH, ED	
M_SP02	36	2	CTE	59-23144	N/A	1	Water Temperature		10.3	Deg. C	08/28/2001	1010	04	ED	
M_SP02	36	2	CTE	59-23144	N/A	2	pH		7.62	pH units	08/28/2001	1010	04	ED	
M_SP02	36	2	CTE	59-23144	N/A	4	Spec. Conductivity		499	umhos/cm	08/28/2001	1010	04	ED	
M_SP02	36	2	CTE	59-23144	N/A	11	Flow		2.756	gpm	08/28/2001	1010	04	ED	
M_SP02	36	2	CTE	59-23144	N/A	66	Turbidity		0.00	NTU	08/28/2001	1010	04	ED	
M_SP02	36	2	CTE	59-23956	N/A	1	Water Temperature		9.1	Deg. C	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	N/A	2	pH		7.57	pH units	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	N/A	4	Spec. Conductivity		470	umhos/cm	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	N/A	11	Flow		4.348	gpm	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	N/A	66	Turbidity		0.00	NTU	05/01/2002	1650	04	SC	
M_SP02	36	2	NOF	09252002	09252002						09/25/2002	1620	10	AB	
M_SP02	36	2	NOF	11122002	11122002						11/12/2002	1045	10	AB	
M_SP02	36	2	NOA	03112003	03112003						03/11/2003		11	MM	
M_SP02	36	2	NOA	03272003	03272003						03/27/2003		11	MM	
M_SP02	36	2	CTE	59-25184	03-U004452	1	Water Temperature		6.1	Deg. C	05/20/2003	1950	04	ED, MM	
M_SP02	36	2	CTE	59-25184	03-U004452	2	pH		7.22	pH units	05/20/2003	1950	04	ED, MM	
M_SP02	36	2	CTE	59-25184	03-U004452	3	D.O.		5.78	mg/l	05/20/2003	1950	04	ED, MM	

Field Data Muddy Springs

Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's_	Comments
M_SP02	36	2	CTE	59-25184	03-U004452	4	Spec. Conductivity		469	umhos/cm	05/20/2003	1950	04	ED, MM	
M_SP02	36	2	CTE	59-25184	03-U004452	11	Flow		6.856	gpm	05/20/2003	1950	04	ED, MM	
M_SP02	36	2	CTE	59-25184	03-U004452	66	Turbidity		13.68	NTU	05/20/2003	1950	04	ED, MM	
M_SP02	36	2	CHE	59-25529	03-U007012	1	Water Temperature		8.8	Deg. C	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	59-25529	03-U007012	2	pH		7.21	pH units	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	59-25529	03-U007012	3	D.O.		5.70	mg/l	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	59-25529	03-U007012	4	Spec. Conductivity		485	umhos/cm	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	59-25529	03-U007012	11	Flow		0.992	gpm	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	59-25529	03-U007012	66	Turbidity		0.15	NTU	08/08/2003	1550	04	AB	
M_SP02	36	2	NOF	10072003	10072003						10/07/2003	1600	10	JS, RG	
M_SP02	36	2	NOA	02212004	02212004						02/21/2004		11	MM	
M_SP02	36	2	NOA	03242004	03242004						03/24/2004		11	JS	
M_SP02	36	2	CTE	59-26323	04-U004622	1	Water Temperature		6.0	Deg. C	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26323	04-U004622	2	pH		7.37	pH units	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26323	04-U004622	3	D.O.		4.82	mg/l	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26323	04-U004622	4	Spec. Conductivity		437	umhos/cm	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26323	04-U004622	11	Flow		2.485	gpm	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26323	04-U004622	66	Turbidity		0.25	NTU	05/11/2004	1145	04	AB	
M_SP03	36	3	FLD	06192001	06192001	1	Water Temperature		7.5	Deg. C	06/19/2001	1902	20	ED, BH	
M_SP03	36	3	FLD	06192001	06192001	2	pH		7.45	pH units	06/19/2001	1902	20	ED, BH	
M_SP03	36	3	FLD	06192001	06192001	4	Spec. Conductivity		77	umhos/cm	06/19/2001	1902	20	ED, BH	
M_SP03	36	3	FLD	06192001	06192001	11	Flow		0.485	gpm	06/19/2001	1902	20	ED, BH	
M_SP03	36	3	FLD	06192001	06192001	66	Turbidity		3.18	NTU	06/19/2001	1902	20	ED, BH	
M_SP03	36	3	NOF	09262001	09262001						09/26/2001	1100	10	ED	
M_SP03	36	3	FLD	05212002	05212002	1	Water Temperature		4.6	Deg. C	05/21/2002	1700	20	ED	
M_SP03	36	3	FLD	05212002	05212002	2	pH		7.42	pH units	05/21/2002	1700	20	ED	
M_SP03	36	3	FLD	05212002	05212002	4	Spec. Conductivity		824	umhos/cm	05/21/2002	1700	20	ED	
M_SP03	36	3	FLD	05212002	05212002	11	Flow		0.077	gpm	05/21/2002	1700	20	ED	
M_SP03	36	3	FLD	05212002	05212002	66	Turbidity		8.32	NTU	05/21/2002	1700	20	ED	
M_SP03	36	3	NOF	09262002	09262002						09/26/2002	1944	10	AB	
M_SP03	36	3	FLD	05202003	05202003	1	Water Temperature		2.7	Deg. C	05/20/2003	1618	20	AB	
M_SP03	36	3	FLD	05202003	05202003	2	pH		7.80	pH units	05/20/2003	1618	20	AB	
M_SP03	36	3	FLD	05202003	05202003	4	Spec. Conductivity		259	umhos/cm	05/20/2003	1618	20	AB	
M_SP03	36	3	FLD	05202003	05202003	11	Flow		1.646	gpm	05/20/2003	1618	20	AB	
M_SP03	36	3	FLD	05202003	05202003	66	Turbidity		0.36	NTU	05/20/2003	1618	20	AB	
M_SP03	36	3	NOF	09252003	09252003						09/25/2003	1945	10	AB	
M_SP03	36	3	FLD	06032004	06032004	1	Water Temperature		6.0	Deg. C	06/03/2004	1746	20	AB	
M_SP03	36	3	FLD	06032004	06032004	2	pH		7.38	pH units	06/03/2004	1746	20	AB	
M_SP03	36	3	FLD	06032004	06032004	4	Spec. Conductivity		355	umhos/cm	06/03/2004	1746	20	AB	
M_SP03	36	3	FLD	06032004	06032004	11	Flow		1.949	gpm	06/03/2004	1746	20	AB	
M_SP03	36	3	FLD	06032004	06032004	66	Turbidity		0.39	NTU	06/03/2004	1746	20	AB	
M_SP04	36	4	FLD	06192001	06192001	1	Water Temperature		5.6	Deg. C	06/19/2001	1945	20	ED, BH	
M_SP04	36	4	FLD	06192001	06192001	2	pH		8.05	pH units	06/19/2001	1945	20	ED, BH	
M_SP04	36	4	FLD	06192001	06192001	4	Spec. Conductivity		499	umhos/cm	06/19/2001	1945	20	ED, BH	
M_SP04	36	4	FLD	06192001	06192001	11	Flow		2.838	gpm	06/19/2001	1945	20	ED, BH	
M_SP04	36	4	FLD	06192001	06192001	66	Turbidity		0.62	NTU	06/19/2001	1945	20	ED, BH	
M_SP04	36	4	CTE	59-23146	N/A	1	Water Temperature		4.7	Deg. C	08/28/2001	1355	04	ED	
M_SP04	36	4	CTE	59-23146	N/A	2	pH		7.73	pH units	08/28/2001	1355	04	ED	
M_SP04	36	4	CTE	59-23146	N/A	4	Spec. Conductivity		379	umhos/cm	08/28/2001	1355	04	ED	
M_SP04	36	4	CTE	59-23146	N/A	11	Flow		1.832	gpm	08/28/2001	1355	04	ED	
M_SP04	36	4	CTE	59-23146	N/A	66	Turbidity		0.47	NTU	08/28/2001	1355	04	ED	
M_SP04	36	4	CTE	59-23949	N/A	1	Water Temperature		4.5	Deg. C	05/03/2002	1036	04	ED	
M_SP04	36	4	CTE	59-23949	N/A	2	pH		7.61	pH units	05/03/2002	1036	04	ED	
M_SP04	36	4	CTE	59-23949	N/A	4	Spec. Conductivity		866	umhos/cm	05/03/2002	1036	04	ED	
M_SP04	36	4	CTE	59-23949	N/A	11	Flow		2.043	gpm	05/03/2002	1036	04	ED	
M_SP04	36	4	CTE	59-23949	N/A	66	Turbidity		0.00	NTU	05/03/2002	1036	04	ED	
M_SP04	36	4	CTE	59-24556	02-U009455	1	Water Temperature		5.3	Deg. C	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	02-U009455	2	pH		7.41	pH units	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	02-U009455	3	D.O.		6.21	mg/l	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	02-U009455	4	Spec. Conductivity		844	umhos/cm	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	02-U009455	11	Flow		0.900	gpm	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	02-U009455	66	Turbidity		0.91	NTU	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24801	02-U011437	1	Water Temperature		4.8	Deg. C	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	02-U011437	2	pH		7.56	pH units	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	02-U011437	3	D.O.		6.64	mg/l	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	02-U011437	4	Spec. Conductivity		885	umhos/cm	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	02-U011437	11	Flow		1.230	gpm	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	02-U011437	66	Turbidity		5.40	NTU	11/12/2002	1355	04	AB	
M_SP04	36	4	NOA	03112003	03112003						03/11/2003		11	MM	
M_SP04	36	4	NOA	03272003	03272003						03/27/2003		11	MM	
M_SP04	36	4	CTE	59-25182	03-U004453	1	Water Temperature		4.2	Deg. C	05/20/2003	1730	04	AB	
M_SP04	36	4	CTE	59-25182	03-U004453	2	pH		7.38	pH units	05/20/2003	1730	04	AB	
M_SP04	36	4	CTE	59-25182	03-U004453	3	D.O.		7.69	mg/l	05/20/2003	1730	04	AB	
M_SP04	36	4	CTE	59-25182	03-U004453	4	Spec. Conductivity		929	umhos/cm	05/20/2003	1730	04	AB	
M_SP04	36	4	CTE	59-25182	03-U004453	11	Flow		3.226	gpm	05/20/2003	1730	04	AB	
M_SP04	36	4	CTE	59-25182	03-U004453	66	Turbidity		0.00	NTU	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	59-25534	03-U007014	1	Water Temperature		5.4	Deg. C	08/05/2003	1935	04	AB	

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Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's_	Comments
M_SP04	36	4	CHE	59-25534	03-U007014	2	pH		7.40	pH units	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	59-25534	03-U007014	3	D.O.		7.40	mg/l	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	59-25534	03-U007014	4	Spec. Conductivity		408	umhos/cm	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	59-25534	03-U007014	11	Flow		0.849	gpm	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	59-25534	03-U007014	66	Turbidity		0.10	NTU	08/05/2003	1935	04	AB	
M_SP04	36	4	CTE	59-25790	03-U009443	1	Water Temperature		5.4	Deg. C	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	03-U009443	2	pH		7.50	pH units	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	03-U009443	3	D.O.		7.30	mg/l	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	03-U009443	4	Spec. Conductivity		861	umhos/cm	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	03-U009443	11	Flow		0.747	gpm	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	03-U009443	66	Turbidity		1.02	NTU	10/06/2003	1530	04	AB	
M_SP04	36	4	NOA	02212004	02212004						02/21/2004		11	MM	
M_SP04	36	4	NOA	03242004	03242004						03/24/2004		11	JS	
M_SP04	36	4	CTE	59-26336	04-U004625	1	Water Temperature		4.4	Deg. C	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	04-U004625	2	pH		7.59	pH units	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	04-U004625	3	D.O.		0.69	mg/l	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	04-U004625	4	Spec. Conductivity		512	umhos/cm	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	04-U004625	11	Flow		2.921	gpm	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	04-U004625	66	Turbidity		0.69	NTU	05/12/2004	1455	04	AB	
M_SP05	36	5	FLD	09262002	09262002	1	Water Temperature		7.7	Deg. C	09/26/2002	1900	20	AB	
M_SP05	36	5	FLD	09262002	09262002	2	pH		7.77	pH units	09/26/2002	1900	20	AB	
M_SP05	36	5	FLD	09262002	09262002	4	Spec. Conductivity		780	umhos/cm	09/26/2002	1900	20	AB	
M_SP05	36	5	FLD	09262002	09262002	11	Flow		0.082	gpm	09/26/2002	1900	20	AB	
M_SP05	36	5	FLD	09262002	09262002	66	Turbidity		19.00	NTU	09/26/2002	1900	20	AB	
M_SP05	36	5	FLD	05202003	05202003	1	Water Temperature		4.3	Deg. C	05/20/2003	1928	20	AB	
M_SP05	36	5	FLD	05202003	05202003	2	pH		7.60	pH units	05/20/2003	1928	20	AB	
M_SP05	36	5	FLD	05202003	05202003	4	Spec. Conductivity		910	umhos/cm	05/20/2003	1928	20	AB	
M_SP05	36	5	FLD	05202003	05202003	11	Flow		0.216	gpm	05/20/2003	1928	20	AB	
M_SP05	36	5	FLD	05202003	05202003	66	Turbidity		0.35	NTU	05/20/2003	1928	20	AB	
M_SP05	36	5	FLD	09252003	09252003	1	Water Temperature		7.3	Deg. C	09/25/2003	1755	20	AB	
M_SP05	36	5	FLD	09252003	09252003	2	pH		7.78	pH units	09/25/2003	1755	20	AB	
M_SP05	36	5	FLD	09252003	09252003	4	Spec. Conductivity		533	umhos/cm	09/25/2003	1755	20	AB	
M_SP05	36	5	FLD	09252003	09252003	11	Flow		0.119	gpm	09/25/2003	1755	20	AB	
M_SP05	36	5	FLD	09252003	09252003	66	Turbidity		17.70	NTU	09/25/2003	1755	20	AB	
M_SP05	36	5	FLD	05122004	05122004	1	Water Temperature		3.9	Deg. C	05/12/2004	1635	20	AB	
M_SP05	36	5	FLD	05122004	05122004	2	pH		7.92	pH units	05/12/2004	1635	20	AB	
M_SP05	36	5	FLD	05122004	05122004	4	Spec. Conductivity		524	umhos/cm	05/12/2004	1635	20	AB	
M_SP05	36	5	FLD	05122004	05122004	11	Flow		0.264	gpm	05/12/2004	1635	20	AB	
M_SP05	36	5	FLD	05122004	05122004	66	Turbidity		0.16	NTU	05/12/2004	1635	20	AB	
M_SP06	36	6	FLD	06192001	06192001	1	Water Temperature		9.3	Deg. C	06/19/2001	2038	20	ED, BH	
M_SP06	36	6	FLD	06192001	06192001	2	pH		8.50	pH units	06/19/2001	2038	20	ED, BH	
M_SP06	36	6	FLD	06192001	06192001	4	Spec. Conductivity		550	umhos/cm	06/19/2001	2038	20	ED, BH	
M_SP06	36	6	FLD	06192001	06192001	11	Flow		2.299	gpm	06/19/2001	2038	20	ED, BH	
M_SP06	36	6	FLD	06192001	06192001	66	Turbidity		7.45	NTU	06/19/2001	2038	20	ED, BH	
M_SP06	36	6	FLD	10042001	10042001	1	Water Temperature		6.3	Deg. C	10/04/2001	1555	20	ED	
M_SP06	36	6	FLD	10042001	10042001	2	pH		8.48	pH units	10/04/2001	1555	20	ED	
M_SP06	36	6	FLD	10042001	10042001	4	Spec. Conductivity		474	umhos/cm	10/04/2001	1555	20	ED	
M_SP06	36	6	FLD	10042001	10042001	11	Flow		1.864	gpm	10/04/2001	1555	20	ED	
M_SP06	36	6	FLD	10042001	10042001	66	Turbidity		13.20	NTU	10/04/2001	1555	20	ED	
M_SP06	36	6	FLD	05032002	05032002	1	Water Temperature		4.9	Deg. C	05/03/2002	1119	20	ED	
M_SP06	36	6	FLD	05032002	05032002	2	pH		8.61	pH units	05/03/2002	1119	20	ED	
M_SP06	36	6	FLD	05032002	05032002	4	Spec. Conductivity		899	umhos/cm	05/03/2002	1119	20	ED	
M_SP06	36	6	FLD	05032002	05032002	11	Flow		2.064	gpm	05/03/2002	1119	20	ED	
M_SP06	36	6	FLD	05032002	05032002	66	Turbidity		0.88	NTU	05/03/2002	1119	20	ED	
M_SP06	36	6	FLD	09262002	09262002	1	Water Temperature		5.4	Deg. C	09/26/2002	1758	20	AB	
M_SP06	36	6	FLD	09262002	09262002	2	pH		7.55	pH units	09/26/2002	1758	20	AB	
M_SP06	36	6	FLD	09262002	09262002	4	Spec. Conductivity		895	umhos/cm	09/26/2002	1758	20	AB	
M_SP06	36	6	FLD	09262002	09262002	11	Flow		1.549	gpm	09/26/2002	1758	20	AB	
M_SP06	36	6	FLD	09262002	09262002	66	Turbidity		0.00	NTU	09/26/2002	1758	20	AB	
M_SP06	36	6	FLD	05202003	05202003	1	Water Temperature		4.6	Deg. C	05/20/2003	1905	20	AB	
M_SP06	36	6	FLD	05202003	05202003	2	pH		7.62	pH units	05/20/2003	1905	20	AB	
M_SP06	36	6	FLD	05202003	05202003	4	Spec. Conductivity		918	umhos/cm	05/20/2003	1905	20	AB	
M_SP06	36	6	FLD	05202003	05202003	11	Flow		1.472	gpm	05/20/2003	1905	20	AB	
M_SP06	36	6	FLD	05202003	05202003	66	Turbidity		1.24	NTU	05/20/2003	1905	20	AB	
M_SP06	36	6	FLD	09252003	09252003	1	Water Temperature		5.3	Deg. C	09/25/2003	1830	20	AB	
M_SP06	36	6	FLD	09252003	09252003	2	pH		7.59	pH units	09/25/2003	1830	20	AB	
M_SP06	36	6	FLD	09252003	09252003	4	Spec. Conductivity		514	umhos/cm	09/25/2003	1830	20	AB	
M_SP06	36	6	FLD	09252003	09252003	11	Flow		1.665	gpm	09/25/2003	1830	20	AB	
M_SP06	36	6	FLD	09252003	09252003	66	Turbidity		0.00	NTU	09/25/2003	1830	20	AB	
M_SP06	36	6	FLD	05122004	05122004	1	Water Temperature		4.7	Deg. C	05/12/2004	1620	20	AB	
M_SP06	36	6	FLD	05122004	05122004	2	pH		7.78	pH units	05/12/2004	1620	20	AB	
M_SP06	36	6	FLD	05122004	05122004	4	Spec. Conductivity		528	umhos/cm	05/12/2004	1620	20	AB	
M_SP06	36	6	FLD	05122004	05122004	11	Flow		1.624	gpm	05/12/2004	1620	20	AB	
M_SP06	36	6	FLD	05122004	05122004	66	Turbidity		0.05	NTU	05/12/2004	1620	20	AB	
M_SP07	36	7	FLD	06202001	06202001	1	Water Temperature		7.8	Deg. C	06/20/2001	1510	20	ED, BH	
M_SP07	36	7	FLD	06202001	06202001	2	pH		7.37	pH units	06/20/2001	1510	20	ED, BH	
M_SP07	36	7	FLD	06202001	06202001	4	Spec. Conductivity		491	umhos/cm	06/20/2001	1510	20	ED, BH	

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Spring/Stre	DO	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's_	Comments
M_SP07	36	7	FLD	06202001	06202001	11	Flow		1.137	gpm	06/20/2001	1510	20	ED, BH	
M_SP07	36	7	FLD	06202001	06202001	66	Turbidity		1.02	NTU	06/20/2001	1510	20	ED, BH	
M_SP07	36	7	CTE	59-23151	N/A	1	Water Temperature		7.3	Deg. C	08/29/2001	1803	04	ED	
M_SP07	36	7	CTE	59-23151	N/A	2	pH		7.50	pH units	08/29/2001	1803	04	ED	
M_SP07	36	7	CTE	59-23151	N/A	4	Spec. Conductivity		541	umhos/cm	08/29/2001	1803	04	ED	
M_SP07	36	7	CTE	59-23151	N/A	11	Flow		0.249	gpm	08/29/2001	1803	04	ED	
M_SP07	36	7	CTE	59-23151	N/A	66	Turbidity		2.25	NTU	08/29/2001	1803	04	ED	
M_SP07	36	7	CTE	59-23952	N/A	1	Water Temperature		4.6	Deg. C	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	N/A	2	pH		8.37	pH units	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	N/A	4	Spec. Conductivity		530	umhos/cm	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	N/A	11	Flow		0.409	gpm	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	N/A	66	Turbidity		11.50	NTU	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-24554	02-U009458	1	Water Temperature		6.5	Deg. C	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	02-U009458	2	pH		7.45	pH units	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	02-U009458	3	D.O.		5.21	mg/l	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	02-U009458	4	Spec. Conductivity		878	umhos/cm	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	02-U009458	11	Flow		0.211	gpm	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	02-U009458	66	Turbidity		1.80	NTU	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24802	02-U011438	1	Water Temperature		3.9	Deg. C	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	02-U011438	2	pH		7.46	pH units	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	02-U011438	3	D.O.		4.94	mg/l	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	02-U011438	4	Spec. Conductivity		799	umhos/cm	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	02-U011438	11	Flow		0.273	gpm	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	02-U011438	66	Turbidity		3.90	NTU	11/12/2002	1635	04	AB	
M_SP07	36	7	NOA	03112003	03112003						03/11/2003		11	MM	
M_SP07	36	7	NOA	03272003	03272003						03/27/2003		11	MM	
M_SP07	36	7	CTE	59-25178	03-U004454	1	Water Temperature		4.6	Deg. C	05/20/2003	1215	04	AB	
M_SP07	36	7	CTE	59-25178	03-U004454	2	pH		7.36	pH units	05/20/2003	1215	04	AB	
M_SP07	36	7	CTE	59-25178	03-U004454	3	D.O.		6.17	mg/l	05/20/2003	1215	04	AB	
M_SP07	36	7	CTE	59-25178	03-U004454	4	Spec. Conductivity		854	umhos/cm	05/20/2003	1215	04	AB	
M_SP07	36	7	CTE	59-25178	03-U004454	11	Flow		0.601	gpm	05/20/2003	1215	04	AB	
M_SP07	36	7	CTE	59-25178	03-U004454	66	Turbidity		6.25	NTU	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	59-25531	03-U007016	1	Water Temperature		6.7	Deg. C	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	59-25531	03-U007016	2	pH		7.32	pH units	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	59-25531	03-U007016	3	D.O.		6.03	mg/l	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	59-25531	03-U007016	4	Spec. Conductivity		442	umhos/cm	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	59-25531	03-U007016	11	Flow		0.280	gpm	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	59-25531	03-U007016	66	Turbidity		0.95	NTU	08/05/2003	1550	04	AB	
M_SP07	36	7	CTE	59-25791	03-U009444	1	Water Temperature		6.3	Deg. C	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	03-U009444	2	pH		7.62	pH units	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	03-U009444	3	D.O.		7.02	mg/l	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	03-U009444	4	Spec. Conductivity		865	umhos/cm	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	03-U009444	11	Flow		0.283	gpm	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	03-U009444	66	Turbidity		0.56	NTU	10/07/2003	1540	04	AB	
M_SP07	36	7	NOA	02212004	02212004						02/21/2004		11	MM	
M_SP07	36	7	NOA	03242004	03242004						03/24/2004		11	JS	
M_SP07	36	7	CTE	59-26324	04-U004619	1	Water Temperature		4.0	Deg. C	05/10/2004	1530	04	AB	
M_SP07	36	7	CTE	59-26324	04-U004619	2	pH		7.38	pH units	05/10/2004	1530	04	AB	
M_SP07	36	7	CTE	59-26324	04-U004619	3	D.O.		6.28	mg/l	05/10/2004	1530	04	AB	
M_SP07	36	7	CTE	59-26324	04-U004619	4	Spec. Conductivity		500	umhos/cm	05/10/2004	1530	04	AB	
M_SP07	36	7	CTE	59-26324	04-U004619	11	Flow		0.677	gpm	05/10/2004	1530	04	AB	
M_SP07	36	7	CTE	59-26324	04-U004619	66	Turbidity		0.53	NTU	05/10/2004	1530	04	AB	
M_SP08	36	8	FLD	06202001	06202001	1	Water Temperature		8.4	Deg. C	06/20/2001	1625	20	ED, BH	
M_SP08	36	8	FLD	06202001	06202001	2	pH		7.78	pH units	06/20/2001	1625	20	ED, BH	
M_SP08	36	8	FLD	06202001	06202001	4	Spec. Conductivity		424	umhos/cm	06/20/2001	1625	20	ED, BH	
M_SP08	36	8	FLD	06202001	06202001	11	Flow		1.030	gpm	06/20/2001	1625	20	ED, BH	
M_SP08	36	8	FLD	06202001	06202001	66	Turbidity		7.58	NTU	06/20/2001	1625	20	ED, BH	
M_SP08	36	8	CTE	59-23150	N/A	1	Water Temperature		7.3	Deg. C	08/29/2001	1515	04	ED	
M_SP08	36	8	CTE	59-23150	N/A	2	pH		7.26	pH units	08/29/2001	1515	04	ED	
M_SP08	36	8	CTE	59-23150	N/A	4	Spec. Conductivity		332	umhos/cm	08/29/2001	1515	04	ED	
M_SP08	36	8	CTE	59-23150	N/A	11	Flow		0.433	gpm	08/29/2001	1515	04	ED	
M_SP08	36	8	CTE	59-23150	N/A	66	Turbidity		2.04	NTU	08/29/2001	1515	04	ED	
M_SP08	36	8	CTE	59-23951	N/A	1	Water Temperature		6.3	Deg. C	05/03/2002	0930	04	SC	
M_SP08	36	8	CTE	59-23951	N/A	2	pH		8.27	pH units	05/03/2002	0930	04	SC	
M_SP08	36	8	CTE	59-23951	N/A	4	Spec. Conductivity		600	umhos/cm	05/03/2002	0930	04	SC	
M_SP08	36	8	CTE	59-23951	N/A	11	Flow		0.775	gpm	05/03/2002	0930	04	SC	
M_SP08	36	8	CTE	59-23951	N/A	66	Turbidity		3.50	NTU	05/03/2002	0930	04	SC	
M_SP08	36	8	CTE	59-24555	02-U009459	1	Water Temperature		11.7	Deg. C	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	02-U009459	2	pH		7.91	pH units	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	02-U009459	3	D.O.		5.80	mg/l	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	02-U009459	4	Spec. Conductivity		901	umhos/cm	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	02-U009459	11	Flow		0.023	gpm	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	02-U009459	66	Turbidity		0.00	NTU	09/26/2002	1135	04	AB	
M_SP08	36	8	NOF	11122002	11122002						11/12/2002	1800	10	AB	
M_SP08	36	8	NOA	03112003	03112003						03/11/2003		11	MM	
M_SP08	36	8	NOA	03272003	03272003						03/27/2003		11	MM	
M_SP08	36	8	CTE	59-25177	03-U004456	1	Water Temperature		3.9	Deg. C	05/20/2003	1015	04	AB	

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Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's	Comments
M_SP08	36	8	CTE	59-25177	03-U004456	2	pH		7.27	pH units	05/20/2003	1015	04	AB	
M_SP08	36	8	CTE	59-25177	03-U004456	3	D.O.		2.93	mg/l	05/20/2003	1015	04	AB	
M_SP08	36	8	CTE	59-25177	03-U004456	4	Spec. Conductivity		1013	umhos/cm	05/20/2003	1015	04	AB	
M_SP08	36	8	CTE	59-25177	03-U004456	11	Flow		0.790	gpm	05/20/2003	1015	04	AB	
M_SP08	36	8	CTE	59-25177	03-U004456	66	Turbidity		0.66	NTU	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	59-25525	03-U007018	1	Water Temperature		10.1	Deg. C	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	59-25525	03-U007018	2	pH		7.25	pH units	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	59-25525	03-U007018	3	D.O.		2.86	mg/l	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	59-25525	03-U007018	4	Spec. Conductivity		541	umhos/cm	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	59-25525	03-U007018	11	Flow		0.096	gpm	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	59-25525	03-U007018	66	Turbidity		21.00	NTU	08/05/2003	1345	04	AB	
M_SP08	36	8	CTE	59-25792	03-U009446	1	Water Temperature		7.7	Deg. C	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	03-U009446	2	pH		7.33	pH units	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	03-U009446	3	D.O.		2.54	mg/l	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	03-U009446	4	Spec. Conductivity		896	umhos/cm	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	03-U009446	11	Flow		0.080	gpm	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	03-U009446	66	Turbidity		2.08	NTU	10/07/2003	1350	04	AB	
M_SP08	36	8	NOA	02212004	02212004						02/21/2004		11	MM	
M_SP08	36	8	NOA	03242004	03242004						03/24/2004		11	JS	
M_SP08	36	8	CTE	59-26325	04-U004618	1	Water Temperature		4.8	Deg. C	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26325	04-U004618	2	pH		7.40	pH units	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26325	04-U004618	3	D.O.		5.42	mg/l	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26325	04-U004618	4	Spec. Conductivity		557	umhos/cm	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26325	04-U004618	11	Flow		1.189	gpm	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26325	04-U004618	66	Turbidity		0.00	NTU	05/10/2004	1325	04	AB	
M_SP09	36	9	FLD	06202001	06202001	1	Water Temperature		7.9	Deg. C	06/20/2001	1750	20	ED, BH	
M_SP09	36	9	FLD	06202001	06202001	2	pH		7.53	pH units	06/20/2001	1750	20	ED, BH	
M_SP09	36	9	FLD	06202001	06202001	4	Spec. Conductivity		464	umhos/cm	06/20/2001	1750	20	ED, BH	
M_SP09	36	9	FLD	06202001	06202001	11	Flow		1.000	gpm	06/20/2001	1750	20	ED, BH	
M_SP09	36	9	FLD	06202001	06202001	66	Turbidity		1.43	NTU	06/20/2001	1750	20	ED, BH	
M_SP09	36	9	NOF	08292001	08292001						08/29/2001	1500	10	ED	
M_SP09	36	9	FLD	05032002	05032002	1	Water Temperature		3.6	Deg. C	05/03/2002	1015	20	SC	
M_SP09	36	9	FLD	05032002	05032002	2	pH		8.55	pH units	05/03/2002	1015	20	SC	
M_SP09	36	9	FLD	05032002	05032002	4	Spec. Conductivity		429	umhos/cm	05/03/2002	1015	20	SC	
M_SP09	36	9	FLD	05032002	05032002	11	Flow		0.254	gpm	05/03/2002	1015	20	SC	
M_SP09	36	9	FLD	05032002	05032002	66	Turbidity		141.00	NTU	05/03/2002	1015	20	SC	
M_SP09	36	9	NOF	09262002	09262002						09/26/2002	1123	10	AB	
M_SP09	36	9	NOF	05202003	05202003						05/20/2003	0940	10	AB	
M_SP09	36	9	NOF	10072003	10072003						10/07/2003	1450	10	AB	
M_SP09	36	9	NOF	05102004	05102004						05/10/2004	1445	10	AB	
M_SP10	36	10	FLD	06202001	06202001	1	Water Temperature		14.5	Deg. C	06/20/2001	1930	20	ED, BH	
M_SP10	36	10	FLD	06202001	06202001	2	pH		7.75	pH units	06/20/2001	1930	20	ED, BH	
M_SP10	36	10	FLD	06202001	06202001	4	Spec. Conductivity		610	umhos/cm	06/20/2001	1930	20	ED, BH	
M_SP10	36	10	FLD	06202001	06202001	11	Flow		0.532	gpm	06/20/2001	1930	20	ED, BH	
M_SP10	36	10	FLD	06202001	06202001	66	Turbidity		0.16	NTU	06/20/2001	1930	20	ED, BH	
M_SP10	36	10	CTE	59-23147	N/A	1	Water Temperature		7.8	Deg. C	08/28/2001	1611	04	ED	
M_SP10	36	10	CTE	59-23147	N/A	2	pH		7.76	pH units	08/28/2001	1611	04	ED	
M_SP10	36	10	CTE	59-23147	N/A	4	Spec. Conductivity		526	umhos/cm	08/28/2001	1611	04	ED	
M_SP10	36	10	CTE	59-23147	N/A	11	Flow		0.489	gpm	08/28/2001	1611	04	ED	
M_SP10	36	10	CTE	59-23147	N/A	66	Turbidity		0.00	NTU	08/28/2001	1611	04	ED	
M_SP10	36	10	CTE	59-23954	N/A	1	Water Temperature		8.5	Deg. C	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	N/A	2	pH		7.99	pH units	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	N/A	4	Spec. Conductivity		490	umhos/cm	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	N/A	11	Flow		0.420	gpm	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	N/A	66	Turbidity		0.00	NTU	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-24552	02-U009457	1	Water Temperature		7.7	Deg. C	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	02-U009457	2	pH		7.84	pH units	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	02-U009457	3	D.O.		4.56	mg/l	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	02-U009457	4	Spec. Conductivity		833	umhos/cm	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	02-U009457	11	Flow		0.238	gpm	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	02-U009457	66	Turbidity		0.00	NTU	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24803	02-U011439	1	Water Temperature		3.8	Deg. C	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	02-U011439	2	pH		7.55	pH units	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	02-U011439	3	D.O.		5.98	mg/l	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	02-U011439	4	Spec. Conductivity		814	umhos/cm	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	02-U011439	11	Flow		0.244	gpm	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	02-U011439	66	Turbidity		0.00	NTU	11/13/2002	1030	04	AB	
M_SP10	36	10	NOA	03112003	03112003						03/11/2003		11	MM	
M_SP10	36	10	NOA	03272003	03272003						03/27/2003		11	MM	
M_SP10	36	10	CTE	59-25181	03-U004455	1	Water Temperature		5.8	Deg. C	05/20/2003	1716	04	ED, MM	
M_SP10	36	10	CTE	59-25181	03-U004455	2	pH		7.56	pH units	05/20/2003	1716	04	ED, MM	
M_SP10	36	10	CTE	59-25181	03-U004455	3	D.O.		4.16	mg/l	05/20/2003	1716	04	ED, MM	
M_SP10	36	10	CTE	59-25181	03-U004455	4	Spec. Conductivity		509	umhos/cm	05/20/2003	1716	04	ED, MM	
M_SP10	36	10	CTE	59-25181	03-U004455	11	Flow		0.243	gpm	05/20/2003	1716	04	ED, MM	
M_SP10	36	10	CTE	59-25181	03-U004455	66	Turbidity		1.71	NTU	05/20/2003	1716	04	ED, MM	
M_SP10	36	10	CHE	59-25533	03-U007017	1	Water Temperature		9.9	Deg. C	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	59-25533	03-U007017	2	pH		7.70	pH units	08/05/2003	0956	04	AB	

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Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's	Comments
M_SP10	36	10	CHE	59-25533	03-U007017	3	D.O.		5.60	mg/l	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	59-25533	03-U007017	4	Spec. Conductivity		500	umhos/cm	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	59-25533	03-U007017	11	Flow		0.224	gpm	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	59-25533	03-U007017	66	Turbidity		0.00	NTU	08/05/2003	0956	04	AB	
M_SP10	36	10	CTE	59-25793	03-U009445	1	Water Temperature		6.7	Deg. C	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	03-U009445	2	pH		7.67	pH units	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	03-U009445	3	D.O.		5.55	mg/l	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	03-U009445	4	Spec. Conductivity		846	umhos/cm	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	03-U009445	11	Flow		0.275	gpm	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	03-U009445	66	Turbidity		0.00	NTU	10/07/2003	1050	04	AB	
M_SP10	36	10	NOA	02212004	02212004						02/21/2004		11	MM	
M_SP10	36	10	NOA	03242004	03242004						03/24/2004		11	JS	
M_SP10	36	10	CTE	59-26326	04-U004620	1	Water Temperature		6.1	Deg. C	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26326	04-U004620	2	pH		7.52	pH units	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26326	04-U004620	3	D.O.		4.02	mg/l	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26326	04-U004620	4	Spec. Conductivity		538	umhos/cm	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26326	04-U004620	11	Flow		0.271	gpm	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26326	04-U004620	66	Turbidity		0.82	NTU	05/10/2004	1845	04	AB	
M_SP11	36	11	FLD	06212001	06212001	1	Water Temperature		12.8	Deg. C	06/21/2001	1200	20	ED, BH	
M_SP11	36	11	FLD	06212001	06212001	2	pH		7.50	pH units	06/21/2001	1200	20	ED, BH	
M_SP11	36	11	FLD	06212001	06212001	4	Spec. Conductivity		488	umhos/cm	06/21/2001	1200	20	ED, BH	
M_SP11	36	11	FLD	06212001	06212001	11	Flow		0.408	gpm	06/21/2001	1200	20	ED, BH	
M_SP11	36	11	FLD	06212001	06212001	66	Turbidity		1.08	NTU	06/21/2001	1200	20	ED, BH	
M_SP11	36	11	NOF	10042001	10042001						10/04/2001	1700	10	ED	
M_SP11	36	11	FLD	05022002	05022002	1	Water Temperature		4.4	Deg. C	05/02/2002	0950	20	ED, SC	
M_SP11	36	11	FLD	05022002	05022002	2	pH		7.72	pH units	05/02/2002	0950	20	ED, SC	
M_SP11	36	11	FLD	05022002	05022002	4	Spec. Conductivity		433	umhos/cm	05/02/2002	0950	20	ED, SC	
M_SP11	36	11	FLD	05022002	05022002	11	Flow		0.548	gpm	05/02/2002	0950	20	ED, SC	
M_SP11	36	11	FLD	05022002	05022002	66	Turbidity		0.33	NTU	05/02/2002	0950	20	ED, SC	
M_SP11	36	11	NOF	09282002	09282002						09/28/2002	1345	10	AB	
M_SP11	36	11	FLD	05222003	05222003	1	Water Temperature		7.6	Deg. C	05/22/2003	0930	20	AB	
M_SP11	36	11	FLD	05222003	05222003	2	pH		7.83	pH units	05/22/2003	0930	20	AB	
M_SP11	36	11	FLD	05222003	05222003	4	Spec. Conductivity		754	umhos/cm	05/22/2003	0930	20	AB	
M_SP11	36	11	FLD	05222003	05222003	11	Flow		6.275	gpm	05/22/2003	0930	20	AB	
M_SP11	36	11	FLD	05222003	05222003	66	Turbidity		2.49	NTU	05/22/2003	0930	20	AB	
M_SP11	36	11	NOF	09252003	09252003						09/25/2003	1710	10	AB	
M_SP11	36	11	FLD	06042004	06042004	1	Water Temperature		6.0	Deg. C	06/04/2004	1850	20	AB	
M_SP11	36	11	FLD	06042004	06042004	2	pH		8.02	pH units	06/04/2004	1850	20	AB	
M_SP11	36	11	FLD	06042004	06042004	4	Spec. Conductivity		396	umhos/cm	06/04/2004	1850	20	AB	
M_SP11	36	11	FLD	06042004	06042004	11	Flow		5.984	gpm	06/04/2004	1850	20	AB	
M_SP11	36	11	FLD	06042004	06042004	66	Turbidity		0.80	NTU	06/04/2004	1850	20	AB	
M_SP12	36	12	FLD	06192001	06192001	1	Water Temperature		22.0	Deg. C	06/19/2001	1747	20	ED, BH	
M_SP12	36	12	FLD	06192001	06192001	2	pH		8.44	pH units	06/19/2001	1747	20	ED, BH	
M_SP12	36	12	FLD	06192001	06192001	4	Spec. Conductivity		495	umhos/cm	06/19/2001	1747	20	ED, BH	
M_SP12	36	12	FLD	06192001	06192001	11	Flow		0.746	gpm	06/19/2001	1747	20	ED, BH	
M_SP12	36	12	FLD	06192001	06192001	66	Turbidity		1.68	NTU	06/19/2001	1747	20	ED, BH	
M_SP12	36	12	FLD	10042001	10042001	1	Water Temperature		5.4	Deg. C	10/04/2001	1432	20	ED	
M_SP12	36	12	FLD	10042001	10042001	2	pH		7.55	pH units	10/04/2001	1432	20	ED	
M_SP12	36	12	FLD	10042001	10042001	4	Spec. Conductivity		399	umhos/cm	10/04/2001	1432	20	ED	
M_SP12	36	12	FLD	10042001	10042001	11	Flow		0.749	gpm	10/04/2001	1432	20	ED	
M_SP12	36	12	FLD	10042001	10042001	66	Turbidity		7.99	NTU	10/04/2001	1432	20	ED	
M_SP12	36	12	FLD	05032002	05032002	1	Water Temperature		2.8	Deg. C	05/03/2002	0951	20	ED	
M_SP12	36	12	FLD	05032002	05032002	2	pH		8.07	pH units	05/03/2002	0951	20	ED	
M_SP12	36	12	FLD	05032002	05032002	4	Spec. Conductivity		785	umhos/cm	05/03/2002	0951	20	ED	
M_SP12	36	12	FLD	05032002	05032002	11	Flow		0.472	gpm	05/03/2002	0951	20	ED	
M_SP12	36	12	FLD	05032002	05032002	66	Turbidity		0.00	NTU	05/03/2002	0951	20	ED	
M_SP12	36	12	FLD	09262002	09262002	1	Water Temperature		5.5	Deg. C	09/26/2002	1523	20	AB	
M_SP12	36	12	FLD	09262002	09262002	2	pH		7.71	pH units	09/26/2002	1523	20	AB	
M_SP12	36	12	FLD	09262002	09262002	4	Spec. Conductivity		714	umhos/cm	09/26/2002	1523	20	AB	
M_SP12	36	12	FLD	09262002	09262002	11	Flow		0.422	gpm	09/26/2002	1523	20	AB	
M_SP12	36	12	FLD	09262002	09262002	66	Turbidity		0.92	NTU	09/26/2002	1523	20	AB	
M_SP12	36	12	FLD	05212003	05212003	1	Water Temperature		3.9	Deg. C	05/21/2003	2000	20	AB	
M_SP12	36	12	FLD	05212003	05212003	2	pH		7.62	pH units	05/21/2003	2000	20	AB	
M_SP12	36	12	FLD	05212003	05212003	4	Spec. Conductivity		779	umhos/cm	05/21/2003	2000	20	AB	
M_SP12	36	12	FLD	05212003	05212003	11	Flow		Immeas.	gpm	05/21/2003	2000	20	AB	
M_SP12	36	12	FLD	05212003	05212003	66	Turbidity		1.17	NTU	05/21/2003	2000	20	AB	
M_SP12	36	12	FLD	09272003	09272003	1	Water Temperature		5.5	Deg. C	09/27/2003	1100	20	AB	
M_SP12	36	12	FLD	09272003	09272003	2	pH		7.56	pH units	09/27/2003	1100	20	AB	
M_SP12	36	12	FLD	09272003	09272003	4	Spec. Conductivity		443	umhos/cm	09/27/2003	1100	20	AB	
M_SP12	36	12	FLD	09272003	09272003	11	Flow		0.263	gpm	09/27/2003	1100	20	AB	
M_SP12	36	12	FLD	09272003	09272003	66	Turbidity		0.36	NTU	09/27/2003	1100	20	AB	
M_SP12	36	12	FLD	06032004	06032004	1	Water Temperature		4.4	Deg. C	06/03/2004	1929	20	AB	
M_SP12	36	12	FLD	06032004	06032004	2	pH		7.71	pH units	06/03/2004	1929	20	AB	
M_SP12	36	12	FLD	06032004	06032004	4	Spec. Conductivity		430	umhos/cm	06/03/2004	1929	20	AB	
M_SP12	36	12	FLD	06032004	06032004	11	Flow		0.937	gpm	06/03/2004	1929	20	AB	
M_SP12	36	12	FLD	06032004	06032004	66	Turbidity		1.25	NTU	06/03/2004	1929	20	AB	
M_SP13	36	13	FLD	06212001	06212001	1	Water Temperature		11.2	Deg. C	06/21/2001	1522	20	ED, BH	

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Spring/Stre	DOC	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's_	Comments
M_SP13	36	13	FLD	06212001	06212001	2	pH		7.21	pH units	06/21/2001	1522	20	ED, BH	
M_SP13	36	13	FLD	06212001	06212001	4	Spec. Conductivity		396	umhos/cm	06/21/2001	1522	20	ED, BH	
M_SP13	36	13	FLD	06212001	06212001	11	Flow		0.523	gpm	06/21/2001	1522	20	ED, BH	
M_SP13	36	13	FLD	06212001	06212001	66	Turbidity		0.48	NTU	06/21/2001	1522	20	ED, BH	
M_SP13	36	13	NOF	08292001	08292001						08/29/2001	1945	10	ED	
M_SP13	36	13	FLD	05022002	05022002	1	Water Temperature		8.6	Deg. C	05/02/2002	1345	20	ED, SC	
M_SP13	36	13	FLD	05022002	05022002	2	pH		7.47	pH units	05/02/2002	1345	20	ED, SC	
M_SP13	36	13	FLD	05022002	05022002	4	Spec. Conductivity		543	umhos/cm	05/02/2002	1345	20	ED, SC	
M_SP13	36	13	FLD	05022002	05022002	11	Flow		1.594	gpm	05/02/2002	1345	20	ED, SC	
M_SP13	36	13	FLD	05022002	05022002	66	Turbidity		1.08	NTU	05/02/2002	1345	20	ED, SC	
M_SP13	36	13	NOF	09262002	09262002						09/26/2002	2000	10	ED	
M_SP13	36	13	FLD	05202003	05202003	1	Water Temperature		13.8	Deg. C	05/20/2003	1330	20	ED, MM	
M_SP13	36	13	FLD	05202003	05202003	2	pH		7.96	pH units	05/20/2003	1330	20	ED, MM	
M_SP13	36	13	FLD	05202003	05202003	4	Spec. Conductivity		206	umhos/cm	05/20/2003	1330	20	ED, MM	
M_SP13	36	13	FLD	05202003	05202003	11	Flow		19.000	gpm	05/20/2003	1330	20	ED, MM	
M_SP13	36	13	FLD	05202003	05202003	66	Turbidity		11.91	NTU	05/20/2003	1330	20	ED, MM	
M_SP13	36	13	NOF	10092003	10092003						10/09/2003	1100	10	AB	
M_SP13	36	13	FLD	06062004	06062004	1	Water Temperature		13.4	Deg. C	06/06/2004	1440	20	ED	
M_SP13	36	13	FLD	06062004	06062004	2	pH		7.82	pH units	06/06/2004	1440	20	ED	
M_SP13	36	13	FLD	06062004	06062004	4	Spec. Conductivity		347	umhos/cm	06/06/2004	1440	20	ED	
M_SP13	36	13	FLD	06062004	06062004	11	Flow		3.111	gpm	06/06/2004	1440	20	ED	
M_SP13	36	13	FLD	06062004	06062004	66	Turbidity		0.35	NTU	06/06/2004	1440	20	ED	
M_SP14	36	14	FLD	06212001	06212001	1	Water Temperature		4.8	Deg. C	06/21/2001	1615	20	ED, BH	
M_SP14	36	14	FLD	06212001	06212001	2	pH		7.35	pH units	06/21/2001	1615	20	ED, BH	
M_SP14	36	14	FLD	06212001	06212001	4	Spec. Conductivity		295	umhos/cm	06/21/2001	1615	20	ED, BH	
M_SP14	36	14	FLD	06212001	06212001	11	Flow		11.229	gpm	06/21/2001	1615	20	ED, BH	
M_SP14	36	14	FLD	06212001	06212001	66	Turbidity		0.01	NTU	06/21/2001	1615	20	ED, BH	
M_SP14	36	14	CTE	59-23153	N/A	1	Water Temperature		6.9	Deg. C	08/29/2001	2005	04	ED	
M_SP14	36	14	CTE	59-23153	N/A	2	pH		7.35	pH units	08/29/2001	2005	04	ED	
M_SP14	36	14	CTE	59-23153	N/A	4	Spec. Conductivity		340	umhos/cm	08/29/2001	2005	04	ED	
M_SP14	36	14	CTE	59-23153	N/A	11	Flow		0.865	gpm	08/29/2001	2005	04	ED	
M_SP14	36	14	CTE	59-23153	N/A	66	Turbidity		0.00	NTU	08/29/2001	2005	04	ED	
M_SP14	36	14	CTE	59-23950	N/A	1	Water Temperature		4.0	Deg. C	05/02/2002	1300	04	ED, SC	
M_SP14	36	14	CTE	59-23950	N/A	2	pH		7.47	pH units	05/02/2002	1300	04	ED, SC	
M_SP14	36	14	CTE	59-23950	N/A	4	Spec. Conductivity		542	umhos/cm	05/02/2002	1300	04	ED, SC	
M_SP14	36	14	CTE	59-23950	N/A	11	Flow		1.950	gpm	05/02/2002	1300	04	ED, SC	
M_SP14	36	14	CTE	59-23950	N/A	66	Turbidity		0.00	NTU	05/02/2002	1300	04	ED, SC	
M_SP14	36	14	NOF	09262002	09262002						09/26/2002	2018	10	ED	
M_SP14	36	14	NOA	11132002	11132002						11/13/2002	1400	11	AB	
M_SP14	36	14	NOA	03112003	03112003						03/11/2003		11	MM	
M_SP14	36	14	NOA	03272003	03272003						03/27/2003		11	MM	
M_SP14	36	14	CTE	59-25179	03-U004457	1	Water Temperature		3.9	Deg. C	05/20/2003	1240	04	ED, MM	
M_SP14	36	14	CTE	59-25179	03-U004457	2	pH		7.42	pH units	05/20/2003	1240	04	ED, MM	
M_SP14	36	14	CTE	59-25179	03-U004457	3	D.O.		7.27	mg/l	05/20/2003	1240	04	ED, MM	
M_SP14	36	14	CTE	59-25179	03-U004457	4	Spec. Conductivity		304	umhos/cm	05/20/2003	1240	04	ED, MM	
M_SP14	36	14	CTE	59-25179	03-U004457	11	Flow		37.200	gpm	05/20/2003	1240	04	ED, MM	
M_SP14	36	14	CTE	59-25179	03-U004457	66	Turbidity		7.11	NTU	05/20/2003	1240	04	ED, MM	
M_SP14	36	14	NOF	08042003	08042003						08/04/2003	2130	10	AB	
M_SP14	36	14	NOF	10092003	10092003						10/09/2003	1105	10	AB	
M_SP14	36	14	NOA	02212004	02212004						02/21/2004		11	MM	
M_SP14	36	14	NOA	03242004	03242004						03/24/2004		11	JS	
M_SP14	36	14	CTE	59-26441	04-U005531	1	Water Temperature		4.4	Deg. C	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	04-U005531	2	pH		7.58	pH units	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	04-U005531	3	D.O.		5.83	mg/l	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	04-U005531	4	Spec. Conductivity		309	umhos/cm	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	04-U005531	11	Flow		61.402	gpm	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	04-U005531	66	Turbidity		0.00	NTU	06/06/2004	1307	04	ED	
M_SP15	36	15	FLD	07112001	07112001	1	Water Temperature		13.5	Deg. C	07/11/2001	1015	20	ED, BH	
M_SP15	36	15	FLD	07112001	07112001	2	pH		8.26	pH units	07/11/2001	1015	20	ED, BH	
M_SP15	36	15	FLD	07112001	07112001	4	Spec. Conductivity		621	umhos/cm	07/11/2001	1015	20	ED, BH	
M_SP15	36	15	FLD	07112001	07112001	11	Flow		4.822	gpm	07/11/2001	1015	20	ED, BH	
M_SP15	36	15	FLD	07112001	07112001	66	Turbidity		69.90	NTU	07/11/2001	1015	20	ED, BH	
M_SP15	36	15	FLD	10032001	10032001	1	Water Temperature		6.4	Deg. C	10/03/2001	0940	20	ED	
M_SP15	36	15	FLD	10032001	10032001	2	pH		8.34	pH units	10/03/2001	0940	20	ED	
M_SP15	36	15	FLD	10032001	10032001	4	Spec. Conductivity		433	umhos/cm	10/03/2001	0940	20	ED	
M_SP15	36	15	FLD	10032001	10032001	11	Flow		1.733	gpm	10/03/2001	0940	20	ED	
M_SP15	36	15	FLD	10032001	10032001	66	Turbidity		3.68	NTU	10/03/2001	0940	20	ED	
M_SP15	36	15	FLD	05022002	05022002	1	Water Temperature		5.4	Deg. C	05/02/2002	1201	20	ED	
M_SP15	36	15	FLD	05022002	05022002	2	pH		7.70	pH units	05/02/2002	1201	20	ED	
M_SP15	36	15	FLD	05022002	05022002	4	Spec. Conductivity		448	umhos/cm	05/02/2002	1201	20	ED	
M_SP15	36	15	FLD	05022002	05022002	11	Flow		0.548	gpm	05/02/2002	1201	20	ED	
M_SP15	36	15	FLD	05022002	05022002	66	Turbidity		0.00	NTU	05/02/2002	1201	20	ED	
M_SP15	36	15	NOF	09272002	09272002						09/27/2002	1445	10	ED	
M_SP15	36	15	FLD	05212003	05212003	1	Water Temperature		14.9	Deg. C	05/21/2003	1613	20	ED, MM	
M_SP15	36	15	FLD	05212003	05212003	2	pH		7.65	pH units	05/21/2003	1613	20	ED, MM	
M_SP15	36	15	FLD	05212003	05212003	4	Spec. Conductivity		509	umhos/cm	05/21/2003	1613	20	ED, MM	
M_SP15	36	15	FLD	05212003	05212003	11	Flow		0.433	gpm	05/21/2003	1613	20	ED, MM	

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Spring/Stre	DO	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's	Comments
M_SP15	36	15	FLD	05212003	05212003	66	Turbidity		14.07	NTU	05/21/2003	1613	20	ED, MM	
M_SP15	36	15	NOF	10082003	10082003						10/08/2003	1705	10	RG	
M_SP15	36	15	FLD	06052004	06052004	1	Water Temperature		15.5	Deg. C	06/05/2004	1026	20	ED	
M_SP15	36	15	FLD	06052004	06052004	2	pH		8.14	pH units	06/05/2004	1026	20	ED	
M_SP15	36	15	FLD	06052004	06052004	4	Spec. Conductivity		930	umhos/cm	06/05/2004	1026	20	ED	
M_SP15	36	15	FLD	06052004	06052004	11	Flow		0.268	gpm	06/05/2004	1026	20	ED	
M_SP15	36	15	FLD	06052004	06052004	66	Turbidity		2.52	NTU	06/05/2004	1026	20	ED	
M_SP17	36	17	FLD	06212001	06212001	1	Water Temperature		9.5	Deg. C	06/21/2001	2055	20	ED, BH	
M_SP17	36	17	FLD	06212001	06212001	2	pH		8.12	pH units	06/21/2001	2055	20	ED, BH	
M_SP17	36	17	FLD	06212001	06212001	4	Spec. Conductivity		628	umhos/cm	06/21/2001	2055	20	ED, BH	
M_SP17	36	17	FLD	06212001	06212001	11	Flow		1.211	gpm	06/21/2001	2055	20	ED, BH	
M_SP17	36	17	FLD	06212001	06212001	66	Turbidity		10.81	NTU	06/21/2001	2055	20	ED, BH	
M_SP17	36	17	FLD	10042001	10042001	1	Water Temperature		6.2	Deg. C	10/04/2001	1736	20	ED	
M_SP17	36	17	FLD	10042001	10042001	2	pH		7.92	pH units	10/04/2001	1736	20	ED	
M_SP17	36	17	FLD	10042001	10042001	4	Spec. Conductivity		751	umhos/cm	10/04/2001	1736	20	ED	
M_SP17	36	17	FLD	10042001	10042001	11	Flow		0.228	gpm	10/04/2001	1736	20	ED	
M_SP17	36	17	FLD	10042001	10042001	66	Turbidity		80.50	NTU	10/04/2001	1736	20	ED	
M_SP17	36	17	FLD	05222002	05222002	1	Water Temperature		3.4	Deg. C	05/22/2002	0921	20	ED	
M_SP17	36	17	FLD	05222002	05222002	2	pH		7.37	pH units	05/22/2002	0921	20	ED	
M_SP17	36	17	FLD	05222002	05222002	4	Spec. Conductivity		1217	umhos/cm	05/22/2002	0921	20	ED	
M_SP17	36	17	FLD	05222002	05222002	11	Flow		1.637	gpm	05/22/2002	0921	20	ED	
M_SP17	36	17	FLD	05222002	05222002	66	Turbidity		0.00	NTU	05/22/2002	0921	20	ED	
M_SP17	36	17	NOF	09282002	09282002						09/28/2002	1445	10	AB	
M_SP17	36	17	FLD	05222003	05222003	1	Water Temperature		2.6	Deg. C	05/22/2003	1400	20	AB	
M_SP17	36	17	FLD	05222003	05222003	2	pH		7.24	pH units	05/22/2003	1400	20	AB	
M_SP17	36	17	FLD	05222003	05222003	4	Spec. Conductivity		971	umhos/cm	05/22/2003	1400	20	AB	
M_SP17	36	17	FLD	05222003	05222003	11	Flow		1.413	gpm	05/22/2003	1400	20	AB	
M_SP17	36	17	FLD	05222003	05222003	66	Turbidity		8.40	NTU	05/22/2003	1400	20	AB	
M_SP17	36	17	FLD	09252003	09252003	1	Water Temperature		5.9	Deg. C	09/25/2003	1600	20	AB	
M_SP17	36	17	FLD	09252003	09252003	2	pH		7.51	pH units	09/25/2003	1600	20	AB	
M_SP17	36	17	FLD	09252003	09252003	4	Spec. Conductivity		677	umhos/cm	09/25/2003	1600	20	AB	
M_SP17	36	17	FLD	09252003	09252003	11	Flow		0.207	gpm	09/25/2003	1600	20	AB	
M_SP17	36	17	FLD	09252003	09252003	66	Turbidity		15.90	NTU	09/25/2003	1600	20	AB	
M_SP17	36	17	FLD	06042004	06042004	1	Water Temperature		3.6	Deg. C	06/04/2004	2012	20	AB	
M_SP17	36	17	FLD	06042004	06042004	2	pH		7.40	pH units	06/04/2004	2012	20	AB	
M_SP17	36	17	FLD	06042004	06042004	4	Spec. Conductivity		709	umhos/cm	06/04/2004	2012	20	AB	
M_SP17	36	17	FLD	06042004	06042004	11	Flow		2.054	gpm	06/04/2004	2012	20	AB	
M_SP17	36	17	FLD	06042004	06042004	66	Turbidity		6.30	NTU	06/04/2004	2012	20	AB	
M_SP18	36	18	FLD	06222001	06222001	1	Water Temperature		6.6	Deg. C	06/22/2001	1622	20	ED, BH	
M_SP18	36	18	FLD	06222001	06222001	2	pH		6.96	pH units	06/22/2001	1622	20	ED, BH	
M_SP18	36	18	FLD	06222001	06222001	4	Spec. Conductivity		728	umhos/cm	06/22/2001	1622	20	ED, BH	
M_SP18	36	18	FLD	06222001	06222001	11	Flow		0.340	gpm	06/22/2001	1622	20	ED, BH	
M_SP18	36	18	FLD	06222001	06222001	66	Turbidity		0.36	NTU	06/22/2001	1622	20	ED, BH	
M_SP18	36	18	CTE	59-23148	N/A	1	Water Temperature		8.3	Deg. C	08/28/2001	1849	04	ED	
M_SP18	36	18	CTE	59-23148	N/A	2	pH		7.58	pH units	08/28/2001	1849	04	ED	
M_SP18	36	18	CTE	59-23148	N/A	4	Spec. Conductivity		726	umhos/cm	08/28/2001	1849	04	ED	
M_SP18	36	18	CTE	59-23148	N/A	11	Flow		0.212	gpm	08/28/2001	1849	04	ED	
M_SP18	36	18	CTE	59-23148	N/A	66	Turbidity		0.32	NTU	08/28/2001	1849	04	ED	
M_SP18	36	18	CTE	59-23957	N/A	1	Water Temperature		6.8	Deg. C	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	N/A	2	pH		7.23	pH units	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	N/A	4	Spec. Conductivity		1274	umhos/cm	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	N/A	11	Flow		0.330	gpm	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	N/A	66	Turbidity		0.46	NTU	05/01/2002	1430	04	SC	
M_SP18	36	18	NOF	09252002	09252002						09/25/2002	1515	10	AB	
M_SP18	36	18	NOF	11122002	11122002						11/12/2002	1010	10	AB	
M_SP18	36	18	NOA	03112003	03112003						03/11/2003		11	MM	
M_SP18	36	18	NOA	03272003	03272003						03/27/2003		11	MM	
M_SP18	36	18	CTE	59-25180	03-U004458	1	Water Temperature		5.5	Deg. C	05/20/2003	1530	04	ED, MM	
M_SP18	36	18	CTE	59-25180	03-U004458	2	pH		7.35	pH units	05/20/2003	1530	04	ED, MM	
M_SP18	36	18	CTE	59-25180	03-U004458	3	D.O.		4.65	mg/l	05/20/2003	1530	04	ED, MM	
M_SP18	36	18	CTE	59-25180	03-U004458	4	Spec. Conductivity		748	umhos/cm	05/20/2003	1530	04	ED, MM	
M_SP18	36	18	CTE	59-25180	03-U004458	11	Flow		0.147	gpm	05/20/2003	1530	04	ED, MM	
M_SP18	36	18	CTE	59-25180	03-U004458	66	Turbidity		9.60	NTU	05/20/2003	1530	04	ED, MM	
M_SP18	36	18	CHE	59-25528	03-U007013	1	Water Temperature		10.0	Deg. C	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	59-25528	03-U007013	2	pH		7.34	pH units	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	59-25528	03-U007013	3	D.O.		4.74	mg/l	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	59-25528	03-U007013	4	Spec. Conductivity		748	umhos/cm	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	59-25528	03-U007013	11	Flow		0.344	gpm	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	59-25528	03-U007013	66	Turbidity		1.30	NTU	08/08/2003	1955	04	AB	
M_SP18	36	18	CTE	59-25794	03-U009447	1	Water Temperature		6.9	Deg. C	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	03-U009447	2	pH		7.26	pH units	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	03-U009447	3	D.O.		5.16	mg/l	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	03-U009447	4	Spec. Conductivity		1276	umhos/cm	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	03-U009447	11	Flow		0.470	gpm	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	03-U009447	66	Turbidity		0.38	NTU	10/06/2003	1800	04	AB	
M_SP18	36	18	NOA	02212004	02212004						02/21/2004		11	MM	
M_SP18	36	18	NOA	03242004	03242004						03/24/2004		11	JS	

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Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's_	Comments
M_SP18	36	18	CTE	59-26334	04-U004623	1	Water Temperature		4.2	Deg. C	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	04-U004623	2	pH		7.47	pH units	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	04-U004623	3	D.O.		5.01	mg/l	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	04-U004623	4	Spec. Conductivity		728	umhos/cm	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	04-U004623	11	Flow		0.463	gpm	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	04-U004623	66	Turbidity		2.62	NTU	05/11/2004	1825	04	AB	
M_SP19	36	19	FLD	07112001	07112001	1	Water Temperature		10.4	Deg. C	07/11/2001	1245	20	ED, BH	
M_SP19	36	19	FLD	07112001	07112001	2	pH		8.24	pH units	07/11/2001	1245	20	ED, BH	
M_SP19	36	19	FLD	07112001	07112001	4	Spec. Conductivity		508	umhos/cm	07/11/2001	1245	20	ED, BH	
M_SP19	36	19	FLD	07112001	07112001	11	Flow		2.260	gpm	07/11/2001	1245	20	ED, BH	
M_SP19	36	19	FLD	07112001	07112001	66	Turbidity		5.90	NTU	07/11/2001	1245	20	ED, BH	
M_SP19	36	19	FLD	10032001	10032001	1	Water Temperature		6.1	Deg. C	10/03/2001	1155	20	ED	
M_SP19	36	19	FLD	10032001	10032001	2	pH		7.83	pH units	10/03/2001	1155	20	ED	
M_SP19	36	19	FLD	10032001	10032001	4	Spec. Conductivity		443	umhos/cm	10/03/2001	1155	20	ED	
M_SP19	36	19	FLD	10032001	10032001	11	Flow		1.976	gpm	10/03/2001	1155	20	ED	
M_SP19	36	19	FLD	10032001	10032001	66	Turbidity		0.17	NTU	10/03/2001	1155	20	ED	
M_SP19	36	19	FLD	05022002	05022002	1	Water Temperature		5.1	Deg. C	05/02/2002	1458	20	ED	
M_SP19	36	19	FLD	05022002	05022002	2	pH		8.28	pH units	05/02/2002	1458	20	ED	
M_SP19	36	19	FLD	05022002	05022002	4	Spec. Conductivity		456	umhos/cm	05/02/2002	1458	20	ED	
M_SP19	36	19	FLD	05022002	05022002	11	Flow		3.031	gpm	05/02/2002	1458	20	ED	
M_SP19	36	19	FLD	05022002	05022002	66	Turbidity		0.46	NTU	05/02/2002	1458	20	ED	
M_SP19	36	19	FLD	09272002	09272002	1	Water Temperature		5.8	Deg. C	09/27/2002	1653	20	ED	
M_SP19	36	19	FLD	09272002	09272002	2	pH		7.94	pH units	09/27/2002	1653	20	ED	
M_SP19	36	19	FLD	09272002	09272002	4	Spec. Conductivity		457	umhos/cm	09/27/2002	1653	20	ED	
M_SP19	36	19	FLD	09272002	09272002	11	Flow		2.114	gpm	09/27/2002	1653	20	ED	
M_SP19	36	19	FLD	09272002	09272002	66	Turbidity		0.35	NTU	09/27/2002	1653	20	ED	
M_SP19	36	19	FLD	05212003	05212003	1	Water Temperature		5.2	Deg. C	05/21/2003	1935	20	ED, MM	
M_SP19	36	19	FLD	05212003	05212003	2	pH		7.86	pH units	05/21/2003	1935	20	ED, MM	
M_SP19	36	19	FLD	05212003	05212003	4	Spec. Conductivity		449	umhos/cm	05/21/2003	1935	20	ED, MM	
M_SP19	36	19	FLD	05212003	05212003	11	Flow		2.866	gpm	05/21/2003	1935	20	ED, MM	
M_SP19	36	19	FLD	05212003	05212003	66	Turbidity		12.30	NTU	05/21/2003	1935	20	ED, MM	
M_SP19	36	19	FLD	10082003	10082003	1	Water Temperature		6.1	Deg. C	10/08/2003	1150	20	RG	
M_SP19	36	19	FLD	10082003	10082003	2	pH		8.21	pH units	10/08/2003	1150	20	RG	
M_SP19	36	19	FLD	10082003	10082003	4	Spec. Conductivity		480	umhos/cm	10/08/2003	1150	20	RG	
M_SP19	36	19	FLD	10082003	10082003	11	Flow		2.555	gpm	10/08/2003	1150	20	RG	
M_SP19	36	19	FLD	10082003	10082003	66	Turbidity		0.68	NTU	10/08/2003	1150	20	RG	
M_SP19	36	19	FLD	06052004	06052004	1	Water Temperature		6.5	Deg. C	06/05/2004	1550	20	ED	
M_SP19	36	19	FLD	06052004	06052004	2	pH		8.23	pH units	06/05/2004	1550	20	ED	
M_SP19	36	19	FLD	06052004	06052004	4	Spec. Conductivity		851	umhos/cm	06/05/2004	1550	20	ED	
M_SP19	36	19	FLD	06052004	06052004	11	Flow		3.128	gpm	06/05/2004	1550	20	ED	
M_SP19	36	19	FLD	06052004	06052004	66	Turbidity		1.34	NTU	06/05/2004	1550	20	ED	
M_SP20	36	20	FLD	07112001	07112001	1	Water Temperature		14.2	Deg. C	07/11/2001	1340	20	ED, BH	
M_SP20	36	20	FLD	07112001	07112001	2	pH		7.84	pH units	07/11/2001	1340	20	ED, BH	
M_SP20	36	20	FLD	07112001	07112001	4	Spec. Conductivity		486	umhos/cm	07/11/2001	1340	20	ED, BH	
M_SP20	36	20	FLD	07112001	07112001	11	Flow		3.507	gpm	07/11/2001	1340	20	ED, BH	
M_SP20	36	20	FLD	07112001	07112001	66	Turbidity		3.52	NTU	07/11/2001	1340	20	ED, BH	
M_SP20	36	20	FLD	10032001	10032001	1	Water Temperature		12.1	Deg. C	10/03/2001	1340	20	ED	
M_SP20	36	20	FLD	10032001	10032001	2	pH		7.85	pH units	10/03/2001	1340	20	ED	
M_SP20	36	20	FLD	10032001	10032001	4	Spec. Conductivity		435	umhos/cm	10/03/2001	1340	20	ED	
M_SP20	36	20	FLD	10032001	10032001	11	Flow		0.909	gpm	10/03/2001	1340	20	ED	
M_SP20	36	20	FLD	10032001	10032001	66	Turbidity		5.20	NTU	10/03/2001	1340	20	ED	
M_SP20	36	20	FLD	05022002	05022002	1	Water Temperature		10.5	Deg. C	05/02/2002	1626	20	ED	
M_SP20	36	20	FLD	05022002	05022002	2	pH		7.97	pH units	05/02/2002	1626	20	ED	
M_SP20	36	20	FLD	05022002	05022002	4	Spec. Conductivity		432	umhos/cm	05/02/2002	1626	20	ED	
M_SP20	36	20	FLD	05022002	05022002	11	Flow		0.814	gpm	05/02/2002	1626	20	ED	
M_SP20	36	20	FLD	05022002	05022002	66	Turbidity		0.00	NTU	05/02/2002	1626	20	ED	
M_SP20	36	20	FLD	09282002	09282002	1	Water Temperature		7.4	Deg. C	09/28/2002	1157	20	ED	
M_SP20	36	20	FLD	09282002	09282002	2	pH		7.79	pH units	09/28/2002	1157	20	ED	
M_SP20	36	20	FLD	09282002	09282002	4	Spec. Conductivity		435	umhos/cm	09/28/2002	1157	20	ED	
M_SP20	36	20	FLD	09282002	09282002	11	Flow		0.706	gpm	09/28/2002	1157	20	ED	
M_SP20	36	20	FLD	09282002	09282002	66	Turbidity		20.00	NTU	09/28/2002	1157	20	ED	
M_SP20	36	20	FLD	05222003	05222003	1	Water Temperature		7.6	Deg. C	05/22/2003	1550	20	ED, MM	
M_SP20	36	20	FLD	05222003	05222003	2	pH		7.59	pH units	05/22/2003	1550	20	ED, MM	
M_SP20	36	20	FLD	05222003	05222003	4	Spec. Conductivity		420	umhos/cm	05/22/2003	1550	20	ED, MM	
M_SP20	36	20	FLD	05222003	05222003	11	Flow		1.041	gpm	05/22/2003	1550	20	ED, MM	
M_SP20	36	20	FLD	05222003	05222003	66	Turbidity		19.05	NTU	05/22/2003	1550	20	ED, MM	
M_SP20	36	20	FLD	10082003	10082003	1	Water Temperature		11.0	Deg. C	10/08/2003	1045	20	RG	
M_SP20	36	20	FLD	10082003	10082003	2	pH		8.31	pH units	10/08/2003	1045	20	RG	
M_SP20	36	20	FLD	10082003	10082003	4	Spec. Conductivity		494	umhos/cm	10/08/2003	1045	20	RG	
M_SP20	36	20	FLD	10082003	10082003	11	Flow		0.781	gpm	10/08/2003	1045	20	RG	
M_SP20	36	20	FLD	10082003	10082003	66	Turbidity		18.60	NTU	10/08/2003	1045	20	RG	
M_SP20	36	20	FLD	06052004	06052004	1	Water Temperature		10.8	Deg. C	06/05/2004	1847	20	ED	
M_SP20	36	20	FLD	06052004	06052004	2	pH		7.92	pH units	06/05/2004	1847	20	ED	
M_SP20	36	20	FLD	06052004	06052004	4	Spec. Conductivity		814	umhos/cm	06/05/2004	1847	20	ED	
M_SP20	36	20	FLD	06052004	06052004	11	Flow		8.621	gpm	06/05/2004	1847	20	ED	
M_SP20	36	20	FLD	06052004	06052004	66	Turbidity		0.35	NTU	06/05/2004	1847	20	ED	
M_SP21	36	21	FLD	07112001	07112001	1	Water Temperature		10.1	Deg. C	07/11/2001	1445	20	ED, BH	

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Spring/Stre	DO	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's	Comments
M_SP21	36	21	FLD	07112001	07112001	2	pH		7.85	pH units	07/11/2001	1445	20	ED, BH	
M_SP21	36	21	FLD	07112001	07112001	4	Spec. Conductivity		333	umhos/cm	07/11/2001	1445	20	ED, BH	
M_SP21	36	21	FLD	07112001	07112001	11	Flow		1.337	gpm	07/11/2001	1445	20	ED, BH	
M_SP21	36	21	FLD	07112001	07112001	66	Turbidity		6.08	NTU	07/11/2001	1445	20	ED, BH	
M_SP21	36	21	NOF	10032001	10032001						10/03/2001	1715	10	ED	
M_SP21	36	21	FLD	05022002	05022002	1	Water Temperature		4.8	Deg. C	05/02/2002	1836	20	ED	
M_SP21	36	21	FLD	05022002	05022002	2	pH		8.03	pH units	05/02/2002	1836	20	ED	
M_SP21	36	21	FLD	05022002	05022002	4	Spec. Conductivity		273	umhos/cm	05/02/2002	1836	20	ED	
M_SP21	36	21	FLD	05022002	05022002	11	Flow		0.985	gpm	05/02/2002	1836	20	ED	
M_SP21	36	21	FLD	05022002	05022002	66	Turbidity		3.85	NTU	05/02/2002	1836	20	ED	
M_SP21	36	21	NOF	09282002	09282002						09/28/2002	0950	10	ED	
M_SP21	36	21	FLD	05222003	05222003	1	Water Temperature		12.6	Deg. C	05/22/2003	1400	20	ED, MM	
M_SP21	36	21	FLD	05222003	05222003	2	pH		7.94	pH units	05/22/2003	1400	20	ED, MM	
M_SP21	36	21	FLD	05222003	05222003	4	Spec. Conductivity		240	umhos/cm	05/22/2003	1400	20	ED, MM	
M_SP21	36	21	FLD	05222003	05222003	11	Flow		3.663	gpm	05/22/2003	1400	20	ED, MM	
M_SP21	36	21	FLD	05222003	05222003	66	Turbidity		73.02	NTU	05/22/2003	1400	20	ED, MM	
M_SP21	36	21	NOF	09262003	09262003						09/26/2003	1840	10	RG	
M_SP21	36	21	FLD	06052004	06052004	1	Water Temperature		7.9	Deg. C	06/05/2004	2101	20	ED	
M_SP21	36	21	FLD	06052004	06052004	2	pH		7.82	pH units	06/05/2004	2101	20	ED	
M_SP21	36	21	FLD	06052004	06052004	4	Spec. Conductivity		558	umhos/cm	06/05/2004	2101	20	ED	
M_SP21	36	21	FLD	06052004	06052004	11	Flow		1.364	gpm	06/05/2004	2101	20	ED	
M_SP21	36	21	FLD	06052004	06052004	66	Turbidity		0.94	NTU	06/05/2004	2101	20	ED	
M_SP25	36	25	FLD	07132001	07132001	1	Water Temperature		10.3	Deg. C	07/13/2001	1235	20	ED, BH	
M_SP25	36	25	FLD	07132001	07132001	2	pH		7.36	pH units	07/13/2001	1235	20	ED, BH	
M_SP25	36	25	FLD	07132001	07132001	4	Spec. Conductivity		289	umhos/cm	07/13/2001	1235	20	ED, BH	
M_SP25	36	25	FLD	07132001	07132001	11	Flow		2.244	gpm	07/13/2001	1235	20	ED, BH	
M_SP25	36	25	FLD	07132001	07132001	66	Turbidity		1.35	NTU	07/13/2001	1235	20	ED, BH	
M_SP25	36	25	NOF	10042001	10042001						10/04/2001	1800	10	ED	
M_SP25	36	25	FLD	05222002	05222002	1	Water Temperature		3.6	Deg. C	05/22/2002	1136	20	ED	
M_SP25	36	25	FLD	05222002	05222002	2	pH		7.41	pH units	05/22/2002	1136	20	ED	
M_SP25	36	25	FLD	05222002	05222002	4	Spec. Conductivity		660	umhos/cm	05/22/2002	1136	20	ED	
M_SP25	36	25	FLD	05222002	05222002	11	Flow		8.785	gpm	05/22/2002	1136	20	ED	
M_SP25	36	25	FLD	05222002	05222002	66	Turbidity		5.77	NTU	05/22/2002	1136	20	ED	
M_SP25	36	25	NOF	09282002	09282002						09/28/2002	1523	10	AB	
M_SP25	36	25	FLD	06052003	06052003	1	Water Temperature		12.1	Deg. C	06/05/2003	1642	20	ED, MM	
M_SP25	36	25	FLD	06052003	06052003	2	pH		7.81	pH units	06/05/2003	1642	20	ED, MM	
M_SP25	36	25	FLD	06052003	06052003	4	Spec. Conductivity		642	umhos/cm	06/05/2003	1642	20	ED, MM	
M_SP25	36	25	FLD	06052003	06052003	11	Flow		7.226	gpm	06/05/2003	1642	20	ED, MM	
M_SP25	36	25	FLD	06052003	06052003	66	Turbidity		8.73	NTU	06/05/2003	1642	20	ED, MM	
M_SP25	36	25	NOF	09252003	09252003						09/25/2003	1520	10	AB	
M_SP25	36	25	FLD	06162004	06162004	1	Water Temperature		10.3	Deg. C	06/16/2004	1820	20	RG	
M_SP25	36	25	FLD	06162004	06162004	2	pH		7.59	pH units	06/16/2004	1820	20	RG	
M_SP25	36	25	FLD	06162004	06162004	4	Spec. Conductivity		437	umhos/cm	06/16/2004	1820	20	RG	
M_SP25	36	25	FLD	06162004	06162004	11	Flow		3.125	gpm	06/16/2004	1820	20	RG	
M_SP25	36	25	FLD	06162004	06162004	66	Turbidity		6.32	NTU	06/16/2004	1820	20	RG	
M_SP26	36	26	FLD	07132001	07132001	1	Water Temperature		15.8	Deg. C	07/13/2001	1340	20	ED, BH	
M_SP26	36	26	FLD	07132001	07132001	2	pH		8.27	pH units	07/13/2001	1340	20	ED, BH	
M_SP26	36	26	FLD	07132001	07132001	4	Spec. Conductivity		368	umhos/cm	07/13/2001	1340	20	ED, BH	
M_SP26	36	26	FLD	07132001	07132001	11	Flow		13.274	gpm	07/13/2001	1340	20	ED, BH	
M_SP26	36	26	FLD	07132001	07132001	66	Turbidity		30.80	NTU	07/13/2001	1340	20	ED, BH	
M_SP26	36	26	FLD	10042001	10042001	1	Water Temperature		5.7	Deg. C	10/04/2001	1844	20	ED	
M_SP26	36	26	FLD	10042001	10042001	2	pH		8.12	pH units	10/04/2001	1844	20	ED	
M_SP26	36	26	FLD	10042001	10042001	4	Spec. Conductivity		371	umhos/cm	10/04/2001	1844	20	ED	
M_SP26	36	26	FLD	10042001	10042001	11	Flow		3.261	gpm	10/04/2001	1844	20	ED	
M_SP26	36	26	FLD	10042001	10042001	66	Turbidity		0.00	NTU	10/04/2001	1844	20	ED	
M_SP26	36	26	FLD	05222002	05222002	1	Water Temperature		4.8	Deg. C	05/22/2002	1241	20	ED	
M_SP26	36	26	FLD	05222002	05222002	2	pH		7.35	pH units	05/22/2002	1241	20	ED	
M_SP26	36	26	FLD	05222002	05222002	4	Spec. Conductivity		597	umhos/cm	05/22/2002	1241	20	ED	
M_SP26	36	26	FLD	05222002	05222002	11	Flow		0.624	gpm	05/22/2002	1241	20	ED	
M_SP26	36	26	FLD	05222002	05222002	66	Turbidity		0.00	NTU	05/22/2002	1241	20	ED	
M_SP26	36	26	FLD	10092002	10092002	1	Water Temperature		6.2	Deg. C	10/09/2002	1100	20	AB	
M_SP26	36	26	FLD	10092002	10092002	2	pH		8.14	pH units	10/09/2002	1100	20	AB	
M_SP26	36	26	FLD	10092002	10092002	4	Spec. Conductivity		360	umhos/cm	10/09/2002	1100	20	AB	
M_SP26	36	26	FLD	10092002	10092002	11	Flow		0.507	gpm	10/09/2002	1100	20	AB	
M_SP26	36	26	FLD	10092002	10092002	66	Turbidity		10.53	NTU	10/09/2002	1100	20	AB	
M_SP26	36	26	FLD	05222003	05222003	1	Water Temperature		4.1	Deg. C	05/22/2003	1947	20	ED, MM	
M_SP26	36	26	FLD	05222003	05222003	2	pH		7.65	pH units	05/22/2003	1947	20	ED, MM	
M_SP26	36	26	FLD	05222003	05222003	4	Spec. Conductivity		310	umhos/cm	05/22/2003	1947	20	ED, MM	
M_SP26	36	26	FLD	05222003	05222003	11	Flow		9.495	gpm	05/22/2003	1947	20	ED, MM	
M_SP26	36	26	FLD	05222003	05222003	66	Turbidity		31.05	NTU	05/22/2003	1947	20	ED, MM	
M_SP26	36	26	FLD	09252003	09252003	1	Water Temperature		8.0	Deg. C	09/25/2003	1135	20	AB	
M_SP26	36	26	FLD	09252003	09252003	2	pH		7.74	pH units	09/25/2003	1135	20	AB	
M_SP26	36	26	FLD	09252003	09252003	4	Spec. Conductivity		392	umhos/cm	09/25/2003	1135	20	AB	
M_SP26	36	26	FLD	09252003	09252003	11	Flow		0.844	gpm	09/25/2003	1135	20	AB	
M_SP26	36	26	FLD	09252003	09252003	66	Turbidity		0.00	NTU	09/25/2003	1135	20	AB	
M_SP26	36	26	FLD	06052004	06052004	1	Water Temperature		5.6	Deg. C	06/05/2004	1905	20	AB	
M_SP26	36	26	FLD	06052004	06052004	2	pH		7.77	pH units	06/05/2004	1905	20	AB	

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Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's_	Comments
M_SP26	36	26	FLD	06052004	06052004	4	Spec. Conductivity		326	umhos/cm	06/05/2004	1905	20	AB	
M_SP26	36	26	FLD	06052004	06052004	11	Flow		14.674	gpm	06/05/2004	1905	20	AB	
M_SP26	36	26	FLD	06052004	06052004	66	Turbidity		0.23	NTU	06/05/2004	1905	20	AB	
M_SP27	36	27	FLD	07132001	07132001	1	Water Temperature		5.9	Deg. C	07/13/2001	1715	20	ED, BH	
M_SP27	36	27	FLD	07132001	07132001	2	pH		7.81	pH units	07/13/2001	1715	20	ED, BH	
M_SP27	36	27	FLD	07132001	07132001	4	Spec. Conductivity		250	umhos/cm	07/13/2001	1715	20	ED, BH	
M_SP27	36	27	FLD	07132001	07132001	11	Flow		130.905	gpm	07/13/2001	1715	20	ED, BH	
M_SP27	36	27	FLD	07132001	07132001	66	Turbidity		0.17	NTU	07/13/2001	1715	20	ED, BH	
M_SP27	36	27	FLD	10192001	10192001	1	Water Temperature		5.6	Deg. C	10/19/2001	1356	20	ED	
M_SP27	36	27	FLD	10192001	10192001	2	pH		7.50	pH units	10/19/2001	1356	20	ED	
M_SP27	36	27	FLD	10192001	10192001	4	Spec. Conductivity		261	umhos/cm	10/19/2001	1356	20	ED	
M_SP27	36	27	FLD	10192001	10192001	11	Flow		84.071	gpm	10/19/2001	1356	20	ED	
M_SP27	36	27	FLD	10192001	10192001	66	Turbidity		0.23	NTU	10/19/2001	1356	20	ED	
M_SP27	36	27	FLD	05222002	05222002	1	Water Temperature		5.6	Deg. C	05/22/2002	1520	20	ED	
M_SP27	36	27	FLD	05222002	05222002	2	pH		7.38	pH units	05/22/2002	1520	20	ED	
M_SP27	36	27	FLD	05222002	05222002	4	Spec. Conductivity		489	umhos/cm	05/22/2002	1520	20	ED	
M_SP27	36	27	FLD	05222002	05222002	11	Flow		227.661	gpm	05/22/2002	1520	20	ED	
M_SP27	36	27	FLD	05222002	05222002	66	Turbidity		1.93	NTU	05/22/2002	1520	20	ED	
M_SP27	36	27	FLD	10092002	10092002	1	Water Temperature		6.7	Deg. C	10/09/2002	1131	20	ED	
M_SP27	36	27	FLD	10092002	10092002	2	pH		7.22	pH units	10/09/2002	1131	20	ED	
M_SP27	36	27	FLD	10092002	10092002	4	Spec. Conductivity		482	umhos/cm	10/09/2002	1131	20	ED	
M_SP27	36	27	FLD	10092002	10092002	11	Flow		25.683	gpm	10/09/2002	1131	20	ED	
M_SP27	36	27	FLD	10092002	10092002	66	Turbidity			NTU	10/09/2002	1131	20	ED	
M_SP27	36	27	FLD	06022003	06022003	1	Water Temperature		5.5	Deg. C	06/02/2003	1649	20	ED, MM	
M_SP27	36	27	FLD	06022003	06022003	2	pH		7.94	pH units	06/02/2003	1649	20	ED, MM	
M_SP27	36	27	FLD	06022003	06022003	4	Spec. Conductivity		242	umhos/cm	06/02/2003	1649	20	ED, MM	
M_SP27	36	27	FLD	06022003	06022003	11	Flow		92.000	gpm	06/02/2003	1649	20	ED, MM	
M_SP27	36	27	FLD	06022003	06022003	66	Turbidity		0.16	NTU	06/02/2003	1649	20	ED, MM	
M_SP27	36	27	FLD	09222003	09222003	1	Water Temperature		5.5	Deg. C	09/22/2003	1745	20	AB	
M_SP27	36	27	FLD	09222003	09222003	2	pH		7.60	pH units	09/22/2003	1745	20	AB	
M_SP27	36	27	FLD	09222003	09222003	4	Spec. Conductivity		183	umhos/cm	09/22/2003	1745	20	AB	
M_SP27	36	27	FLD	09222003	09222003	11	Flow		54.900	gpm	09/22/2003	1745	20	AB	
M_SP27	36	27	FLD	09222003	09222003	66	Turbidity		0.00	NTU	09/22/2003	1745	20	AB	
M_SP27	36	27	FLD	06152004	06152004	1	Water Temperature		5.5	Deg. C	06/15/2004	1739	20	AB	
M_SP27	36	27	FLD	06152004	06152004	2	pH		7.64	pH units	06/15/2004	1739	20	AB	
M_SP27	36	27	FLD	06152004	06152004	4	Spec. Conductivity		293	umhos/cm	06/15/2004	1739	20	AB	
M_SP27	36	27	FLD	06152004	06152004	11	Flow		96.250	gpm	06/15/2004	1739	20	AB	
M_SP27	36	27	FLD	06152004	06152004	66	Turbidity		0.00	NTU	06/15/2004	1739	20	AB	
M_SP28	36	28	FLD	10052001	10052001	1	Water Temperature		7.0	Deg. C	10/05/2001	0917	20	ED	
M_SP28	36	28	FLD	10052001	10052001	2	pH		7.68	pH units	10/05/2001	0917	20	ED	
M_SP28	36	28	FLD	10052001	10052001	4	Spec. Conductivity		240	umhos/cm	10/05/2001	0917	20	ED	
M_SP28	36	28	FLD	10052001	10052001	11	Flow		1.787	gpm	10/05/2001	0917	20	ED	
M_SP28	36	28	FLD	10052001	10052001	66	Turbidity		0.16	NTU	10/05/2001	0917	20	ED	
M_SP28	36	28	FLD	05232002	05232002	1	Water Temperature		6.6	Deg. C	05/23/2002	1924	20	ED	
M_SP28	36	28	FLD	05232002	05232002	2	pH		7.64	pH units	05/23/2002	1924	20	ED	
M_SP28	36	28	FLD	05232002	05232002	4	Spec. Conductivity		509	umhos/cm	05/23/2002	1924	20	ED	
M_SP28	36	28	FLD	05232002	05232002	11	Flow		4.060	gpm	05/23/2002	1924	20	ED	
M_SP28	36	28	FLD	05232002	05232002	66	Turbidity		1.30	NTU	05/23/2002	1924	20	ED	
M_SP28	36	28	FLD	10082002	10082002	1	Water Temperature		6.8	Deg. C	10/08/2002	1816	20	AB	
M_SP28	36	28	FLD	10082002	10082002	2	pH		7.32	pH units	10/08/2002	1816	20	AB	
M_SP28	36	28	FLD	10082002	10082002	4	Spec. Conductivity		507	umhos/cm	10/08/2002	1816	20	AB	
M_SP28	36	28	FLD	10082002	10082002	11	Flow		1.692	gpm	10/08/2002	1816	20	AB	
M_SP28	36	28	FLD	10082002	10082002	66	Turbidity		0.00	NTU	10/08/2002	1816	20	AB	
M_SP28	36	28	FLD	06042003	06042003	1	Water Temperature		6.5	Deg. C	06/04/2003	2134	20	ED	
M_SP28	36	28	FLD	06042003	06042003	2	pH		7.53	pH units	06/04/2003	2134	20	ED	
M_SP28	36	28	FLD	06042003	06042003	4	Spec. Conductivity		520	umhos/cm	06/04/2003	2134	20	ED	
M_SP28	36	28	FLD	06042003	06042003	11	Flow		3.461	gpm	06/04/2003	2134	20	ED	
M_SP28	36	28	FLD	06042003	06042003	66	Turbidity		2.67	NTU	06/04/2003	2134	20	ED	
M_SP28	36	28	FLD	09252003	09252003	1	Water Temperature		6.6	Deg. C	09/25/2003	0950	20	AB	
M_SP28	36	28	FLD	09252003	09252003	2	pH		7.37	pH units	09/25/2003	0950	20	AB	
M_SP28	36	28	FLD	09252003	09252003	4	Spec. Conductivity		296	umhos/cm	09/25/2003	0950	20	AB	
M_SP28	36	28	FLD	09252003	09252003	11	Flow		1.971	gpm	09/25/2003	0950	20	AB	
M_SP28	36	28	FLD	09252003	09252003	66	Turbidity		2.37	NTU	09/25/2003	0950	20	AB	
M_SP28	36	28	FLD	06162004	06162004	1	Water Temperature		6.6	Deg. C	06/16/2004	2015	20	RG	
M_SP28	36	28	FLD	06162004	06162004	2	pH		7.56	pH units	06/16/2004	2015	20	RG	
M_SP28	36	28	FLD	06162004	06162004	4	Spec. Conductivity		526	umhos/cm	06/16/2004	2015	20	RG	
M_SP28	36	28	FLD	06162004	06162004	11	Flow		3.704	gpm	06/16/2004	2015	20	RG	
M_SP28	36	28	FLD	06162004	06162004	66	Turbidity		0.29	NTU	06/16/2004	2015	20	RG	
M_SP29	36	29	FLD	10052001	10052001	1	Water Temperature		6.6	Deg. C	10/05/2001	0917	20	ED	
M_SP29	36	29	FLD	10052001	10052001	2	pH		7.68	pH units	10/05/2001	0917	20	ED	
M_SP29	36	29	FLD	10052001	10052001	4	Spec. Conductivity		276	umhos/cm	10/05/2001	0917	20	ED	
M_SP29	36	29	FLD	10052001	10052001	11	Flow		5.159	gpm	10/05/2001	0917	20	ED	
M_SP29	36	29	FLD	10052001	10052001	66	Turbidity		0.69	NTU	10/05/2001	0917	20	ED	
M_SP29	36	29	FLD	05232002	05232002	1	Water Temperature		7.1	Deg. C	05/23/2002	1857	20	ED	
M_SP29	36	29	FLD	05232002	05232002	2	pH		7.65	pH units	05/23/2002	1857	20	ED	
M_SP29	36	29	FLD	05232002	05232002	4	Spec. Conductivity		500	umhos/cm	05/23/2002	1857	20	ED	
M_SP29	36	29	FLD	05232002	05232002	11	Flow		12.614	gpm	05/23/2002	1857	20	ED	

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M_SP29	36	29	FLD	05232002	05232002	66	Turbidity		1.93	NTU	05/23/2002	1857	20	ED	
M_SP29	36	29	FLD	10082002	10082002	1	Water Temperature		7.0	Deg. C	10/08/2002	1836	20	AB	
M_SP29	36	29	FLD	10082002	10082002	2	pH		7.32	pH units	10/08/2002	1836	20	AB	
M_SP29	36	29	FLD	10082002	10082002	4	Spec. Conductivity		483	umhos/cm	10/08/2002	1836	20	AB	
M_SP29	36	29	FLD	10082002	10082002	11	Flow		5.303	gpm	10/08/2002	1836	20	AB	
M_SP29	36	29	FLD	10082002	10082002	66	Turbidity		0.00	NTU	10/08/2002	1836	20	AB	
M_SP29	36	29	FLD	06042003	06042003	1	Water Temperature		7.1	Deg. C	06/04/2003	2154	20	ED	
M_SP29	36	29	FLD	06042003	06042003	2	pH		7.52	pH units	06/04/2003	2154	20	ED	
M_SP29	36	29	FLD	06042003	06042003	4	Spec. Conductivity		511	umhos/cm	06/04/2003	2154	20	ED	
M_SP29	36	29	FLD	06042003	06042003	11	Flow		12.642	gpm	06/04/2003	2154	20	ED	
M_SP29	36	29	FLD	06042003	06042003	66	Turbidity		16.17	NTU	06/04/2003	2154	20	ED	
M_SP29	36	29	FLD	09252003	09252003	1	Water Temperature		6.9	Deg. C	09/25/2003	1015	20	AB	
M_SP29	36	29	FLD	09252003	09252003	2	pH		7.49	pH units	09/25/2003	1015	20	AB	
M_SP29	36	29	FLD	09252003	09252003	4	Spec. Conductivity		288	umhos/cm	09/25/2003	1015	20	AB	
M_SP29	36	29	FLD	09252003	09252003	11	Flow		5.765	gpm	09/25/2003	1015	20	AB	
M_SP29	36	29	FLD	09252003	09252003	66	Turbidity		0.00	NTU	09/25/2003	1015	20	AB	
M_SP29	36	29	FLD	06162004	06162004	1	Water Temperature		7.1	Deg. C	06/16/2004	2008	20	AB	
M_SP29	36	29	FLD	06162004	06162004	2	pH		7.56	pH units	06/16/2004	2008	20	AB	
M_SP29	36	29	FLD	06162004	06162004	4	Spec. Conductivity		305	umhos/cm	06/16/2004	2008	20	AB	
M_SP29	36	29	FLD	06162004	06162004	11	Flow		13.235	gpm	06/16/2004	2008	20	AB	
M_SP29	36	29	FLD	06162004	06162004	66	Turbidity		0.00	NTU	06/16/2004	2008	20	AB	
M_SP32	36	32	FLD	07192001	07192001	1	Water Temperature		17.7	Deg. C	07/19/2001	1550	20	ED, BH	
M_SP32	36	32	FLD	07192001	07192001	2	pH		7.96	pH units	07/19/2001	1550	20	ED, BH	
M_SP32	36	32	FLD	07192001	07192001	4	Spec. Conductivity		288	umhos/cm	07/19/2001	1550	20	ED, BH	
M_SP32	36	32	FLD	07192001	07192001	11	Flow		4.786	gpm	07/19/2001	1550	20	ED, BH	
M_SP32	36	32	FLD	07192001	07192001	66	Turbidity		11.50	NTU	07/19/2001	1550	20	ED, BH	
M_SP32	36	32	NOF	10062001	10062001						10/06/2001	1030	10	ED	
M_SP32	36	32	FLD	05232002	05232002	1	Water Temperature		9.1	Deg. C	05/23/2002	1643	20	ED	
M_SP32	36	32	FLD	05232002	05232002	2	pH		8.28	pH units	05/23/2002	1643	20	ED	
M_SP32	36	32	FLD	05232002	05232002	4	Spec. Conductivity		545	umhos/cm	05/23/2002	1643	20	ED	
M_SP32	36	32	FLD	05232002	05232002	11	Flow		35.714	gpm	05/23/2002	1643	20	ED	
M_SP32	36	32	FLD	05232002	05232002	66	Turbidity		0.00	NTU	05/23/2002	1643	20	ED	
M_SP32	36	32	NOF	10082002	10082002						10/08/2002	1518	10	ED	
M_SP32	36	32	FLD	06042003	06042003	1	Water Temperature		15.7	Deg. C	06/04/2003	1203	20	ED	
M_SP32	36	32	FLD	06042003	06042003	2	pH		8.28	pH units	06/04/2003	1203	20	ED	
M_SP32	36	32	FLD	06042003	06042003	4	Spec. Conductivity		564	umhos/cm	06/04/2003	1203	20	ED	
M_SP32	36	32	FLD	06042003	06042003	11	Flow		3.312	gpm	06/04/2003	1203	20	ED	
M_SP32	36	32	FLD	06042003	06042003	66	Turbidity		17.91	NTU	06/04/2003	1203	20	ED	
M_SP32	36	32	NOF	09222003	09222003						09/22/2003	1755	10	RG	
M_SP32	36	32	FLD	06032004	06032004	1	Water Temperature		7.8	Deg. C	06/03/2004	1858	20	ED	
M_SP32	36	32	FLD	06032004	06032004	2	pH		7.40	pH units	06/03/2004	1858	20	ED	
M_SP32	36	32	FLD	06032004	06032004	4	Spec. Conductivity		657	umhos/cm	06/03/2004	1858	20	ED	
M_SP32	36	32	FLD	06032004	06032004	11	Flow		6.909	gpm	06/03/2004	1858	20	ED	
M_SP32	36	32	FLD	06032004	06032004	66	Turbidity		0.74	NTU	06/03/2004	1858	20	ED	
M_SP33	36	33	FLD	07192001	07192001	1	Water Temperature		20.4	Deg. C	07/19/2001	1810	20	ED, BH	
M_SP33	36	33	FLD	07192001	07192001	2	pH		8.32	pH units	07/19/2001	1810	20	ED, BH	
M_SP33	36	33	FLD	07192001	07192001	4	Spec. Conductivity		255	umhos/cm	07/19/2001	1810	20	ED, BH	
M_SP33	36	33	FLD	07192001	07192001	11	Flow		3.693	gpm	07/19/2001	1810	20	ED, BH	
M_SP33	36	33	FLD	07192001	07192001	66	Turbidity		28.00	NTU	07/19/2001	1810	20	ED, BH	
M_SP33	36	33	NOF	10062001	10062001						10/06/2001	1000	10	ED	
M_SP33	36	33	FLD	05232002	05232002	1	Water Temperature		10.3	Deg. C	05/23/2002	1353	20	ED	
M_SP33	36	33	FLD	05232002	05232002	2	pH		8.41	pH units	05/23/2002	1353	20	ED	
M_SP33	36	33	FLD	05232002	05232002	4	Spec. Conductivity		467	umhos/cm	05/23/2002	1353	20	ED	
M_SP33	36	33	FLD	05232002	05232002	11	Flow		20.316	gpm	05/23/2002	1353	20	ED	
M_SP33	36	33	FLD	05232002	05232002	66	Turbidity		0.00	NTU	05/23/2002	1353	20	ED	
M_SP33	36	33	NOF	10082002	10082002						10/08/2002	1319	10	ED	
M_SP33	36	33	FLD	06042003	06042003	1	Water Temperature		17.8	Deg. C	06/04/2003	1832	20	ED	
M_SP33	36	33	FLD	06042003	06042003	2	pH		8.35	pH units	06/04/2003	1832	20	ED	
M_SP33	36	33	FLD	06042003	06042003	4	Spec. Conductivity		495	umhos/cm	06/04/2003	1832	20	ED	
M_SP33	36	33	FLD	06042003	06042003	11	Flow		27.400	gpm	06/04/2003	1832	20	ED	
M_SP33	36	33	FLD	06042003	06042003	66	Turbidity		25.23	NTU	06/04/2003	1832	20	ED	
M_SP33	36	33	NOF	09242003	09242003						09/24/2003	1315	10	RG	
M_SP33	36	33	FLD	06042004	06042004	1	Water Temperature		18.3	Deg. C	06/04/2004	2033	20	ED	
M_SP33	36	33	FLD	06042004	06042004	2	pH		8.29	pH units	06/04/2004	2033	20	ED	
M_SP33	36	33	FLD	06042004	06042004	4	Spec. Conductivity		488	umhos/cm	06/04/2004	2033	20	ED	
M_SP33	36	33	FLD	06042004	06042004	11	Flow		27.400	gpm	06/04/2004	2033	20	ED	
M_SP33	36	33	FLD	06042004	06042004	66	Turbidity		2.96	NTU	06/04/2004	2033	20	ED	
M_SP34	36	34	FLD	07192001	07192001	1	Water Temperature		10.6	Deg. C	07/19/2001	1915	20	ED, BH	
M_SP34	36	34	FLD	07192001	07192001	2	pH		7.90	pH units	07/19/2001	1915	20	ED, BH	
M_SP34	36	34	FLD	07192001	07192001	4	Spec. Conductivity		311	umhos/cm	07/19/2001	1915	20	ED, BH	
M_SP34	36	34	FLD	07192001	07192001	11	Flow		3.294	gpm	07/19/2001	1915	20	ED, BH	
M_SP34	36	34	FLD	07192001	07192001	66	Turbidity		2.27	NTU	07/19/2001	1915	20	ED, BH	
M_SP34	36	34	NOF	10062001	10062001						10/06/2001	0930	10	ED	
M_SP34	36	34	FLD	05232002	05232002	1	Water Temperature		6.9	Deg. C	05/23/2002	1315	20	ED	
M_SP34	36	34	FLD	05232002	05232002	2	pH		7.98	pH units	05/23/2002	1315	20	ED	
M_SP34	36	34	FLD	05232002	05232002	4	Spec. Conductivity		465	umhos/cm	05/23/2002	1315	20	ED	
M_SP34	36	34	FLD	05232002	05232002	11	Flow		6.780	gpm	05/23/2002	1315	20	ED	

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M_SP34	36	34	FLD	05232002	05232002	66	Turbidity		1.72	NTU	05/23/2002	1315	20	ED	
M_SP34	36	34	NOF	10082002	10082002						10/08/2002	1254	10	ED	
M_SP34	36	34	FLD	06042003	06042003	1	Water Temperature		8.0	Deg. C	06/04/2003	1422	20	ED	
M_SP34	36	34	FLD	06042003	06042003	2	pH		7.54	pH units	06/04/2003	1422	20	ED	
M_SP34	36	34	FLD	06042003	06042003	4	Spec. Conductivity		496	umhos/cm	06/04/2003	1422	20	ED	
M_SP34	36	34	FLD	06042003	06042003	11	Flow		16.358	gpm	06/04/2003	1422	20	ED	
M_SP34	36	34	FLD	06042003	06042003	66	Turbidity		27.00	NTU	06/04/2003	1422	20	ED	
M_SP34	36	34	NOF	09242003	09242003						09/24/2003	1435	10	RG	
M_SP34	36	34	FLD	06042004	06042004	1	Water Temperature		8.4	Deg. C	06/04/2004	1957	20	ED	
M_SP34	36	34	FLD	06042004	06042004	2	pH		7.85	pH units	06/04/2004	1957	20	ED	
M_SP34	36	34	FLD	06042004	06042004	4	Spec. Conductivity		484	umhos/cm	06/04/2004	1957	20	ED	
M_SP34	36	34	FLD	06042004	06042004	11	Flow		53.786	gpm	06/04/2004	1957	20	ED	
M_SP34	36	34	FLD	06042004	06042004	66	Turbidity		0.23	NTU	06/04/2004	1957	20	ED	
M_SP35	36	35	FLD	07192001	07192001	1	Water Temperature		18.7	Deg. C	07/19/2001	2100	20	ED, BH	
M_SP35	36	35	FLD	07192001	07192001	2	pH		8.04	pH units	07/19/2001	2100	20	ED, BH	
M_SP35	36	35	FLD	07192001	07192001	4	Spec. Conductivity		290	umhos/cm	07/19/2001	2100	20	ED, BH	
M_SP35	36	35	FLD	07192001	07192001	11	Flow		5.450	gpm	07/19/2001	2100	20	ED, BH	
M_SP35	36	35	FLD	07192001	07192001	66	Turbidity		0.95	NTU	07/19/2001	2100	20	ED, BH	
M_SP35	36	35	NOF	10062001	10062001						10/06/2001	0900	10	ED	
M_SP35	36	35	FLD	05232002	05232002	1	Water Temperature		9.2	Deg. C	05/23/2002	1020	20	ED	
M_SP35	36	35	FLD	05232002	05232002	2	pH		8.07	pH units	05/23/2002	1020	20	ED	
M_SP35	36	35	FLD	05232002	05232002	4	Spec. Conductivity		464	umhos/cm	05/23/2002	1020	20	ED	
M_SP35	36	35	FLD	05232002	05232002	11	Flow		24.259	gpm	05/23/2002	1020	20	ED	
M_SP35	36	35	FLD	05232002	05232002	66	Turbidity		22.78	NTU	05/23/2002	1020	20	ED	
M_SP35	36	35	NOF	10082002	10082002						10/08/2002	1155	10	ED	
M_SP35	36	35	FLD	06032003	06032003	1	Water Temperature		17.7	Deg. C	06/03/2003	2011	20	ED	
M_SP35	36	35	FLD	06032003	06032003	2	pH		7.94	pH units	06/03/2003	2011	20	ED	
M_SP35	36	35	FLD	06032003	06032003	4	Spec. Conductivity		537	umhos/cm	06/03/2003	2011	20	ED	
M_SP35	36	35	FLD	06032003	06032003	11	Flow		27.400	gpm	06/03/2003	2011	20	ED	
M_SP35	36	35	FLD	06032003	06032003	66	Turbidity		23.49	NTU	06/03/2003	2011	20	ED	
M_SP35	36	35	NOF	09242003	09242003						09/24/2003	1135	10	RG	
M_SP35	36	35	FLD	06042004	06042004	1	Water Temperature		18.0	Deg. C	06/04/2004	1833	20	ED	
M_SP35	36	35	FLD	06042004	06042004	2	pH		8.05	pH units	06/04/2004	1833	20	ED	
M_SP35	36	35	FLD	06042004	06042004	4	Spec. Conductivity		449	umhos/cm	06/04/2004	1833	20	ED	
M_SP35	36	35	FLD	06042004	06042004	11	Flow		45.800	gpm	06/04/2004	1833	20	ED	
M_SP35	36	35	FLD	06042004	06042004	66	Turbidity		0.75	NTU	06/04/2004	1833	20	ED	
M_SP36	36	36	FLD	07202001	07202001	1	Water Temperature		8.9	Deg. C	07/20/2001	1830	20	ED, BH	
M_SP36	36	36	FLD	07202001	07202001	2	pH		8.00	pH units	07/20/2001	1830	20	ED, BH	
M_SP36	36	36	FLD	07202001	07202001	4	Spec. Conductivity		562	umhos/cm	07/20/2001	1830	20	ED, BH	
M_SP36	36	36	FLD	07202001	07202001	11	Flow		2.271	gpm	07/20/2001	1830	20	ED, BH	
M_SP36	36	36	FLD	07202001	07202001	66	Turbidity		1.90	NTU	07/20/2001	1830	20	ED, BH	
M_SP36	36	36	FLD	10052001	10052001	1	Water Temperature		6.2	Deg. C	10/05/2001	1135	20	ED	
M_SP36	36	36	FLD	10052001	10052001	2	pH		8.07	pH units	10/05/2001	1135	20	ED	
M_SP36	36	36	FLD	10052001	10052001	4	Spec. Conductivity		603	umhos/cm	10/05/2001	1135	20	ED	
M_SP36	36	36	FLD	10052001	10052001	11	Flow		1.497	gpm	10/05/2001	1135	20	ED	
M_SP36	36	36	FLD	10052001	10052001	66	Turbidity		0.00	NTU	10/05/2001	1135	20	ED	
M_SP36	36	36	FLD	05222002	05222002	1	Water Temperature		9.3	Deg. C	05/22/2002	1305	20	SC	
M_SP36	36	36	FLD	05222002	05222002	2	pH		8.76	pH units	05/22/2002	1305	20	SC	
M_SP36	36	36	FLD	05222002	05222002	4	Spec. Conductivity		688	umhos/cm	05/22/2002	1305	20	SC	
M_SP36	36	36	FLD	05222002	05222002	11	Flow		0.866	gpm	05/22/2002	1305	20	SC	
M_SP36	36	36	FLD	05222002	05222002	66	Turbidity		8.67	NTU	05/22/2002	1305	20	SC	
M_SP36	36	36	FLD	09262002	09262002	1	Water Temperature		6.4	Deg. C	09/26/2002	1525	20	ED	
M_SP36	36	36	FLD	09262002	09262002	2	pH		8.02	pH units	09/26/2002	1525	20	ED	
M_SP36	36	36	FLD	09262002	09262002	4	Spec. Conductivity		626	umhos/cm	09/26/2002	1525	20	ED	
M_SP36	36	36	FLD	09262002	09262002	11	Flow		1.559	gpm	09/26/2002	1525	20	ED	
M_SP36	36	36	FLD	09262002	09262002	66	Turbidity		0.05	NTU	09/26/2002	1525	20	ED	
M_SP36	36	36	FLD	06042003	06042003	1	Water Temperature		4.3	Deg. C	06/04/2003	1044	20	MM	
M_SP36	36	36	FLD	06042003	06042003	2	pH		8.36	pH units	06/04/2003	1044	20	MM	
M_SP36	36	36	FLD	06042003	06042003	4	Spec. Conductivity		615	umhos/cm	06/04/2003	1044	20	MM	
M_SP36	36	36	FLD	06042003	06042003	11	Flow		1.715	gpm	06/04/2003	1044	20	MM	
M_SP36	36	36	FLD	06042003	06042003	66	Turbidity		0.63	NTU	06/04/2003	1044	20	MM	
M_SP36	36	36	FLD	09232003	09232003	1	Water Temperature		6.2	Deg. C	09/23/2003	1200	20	AB	
M_SP36	36	36	FLD	09232003	09232003	2	pH		8.12	pH units	09/23/2003	1200	20	AB	
M_SP36	36	36	FLD	09232003	09232003	4	Spec. Conductivity		619	umhos/cm	09/23/2003	1200	20	AB	
M_SP36	36	36	FLD	09232003	09232003	11	Flow		1.752	gpm	09/23/2003	1200	20	AB	
M_SP36	36	36	FLD	09232003	09232003	66	Turbidity		0.32	NTU	09/23/2003	1200	20	AB	
M_SP36	36	36	FLD	06162004	06162004	1	Water Temperature		4.8	Deg. C	06/16/2004	1208	20	AB	
M_SP36	36	36	FLD	06162004	06162004	2	pH		8.22	pH units	06/16/2004	1208	20	AB	
M_SP36	36	36	FLD	06162004	06162004	4	Spec. Conductivity		652	umhos/cm	06/16/2004	1208	20	AB	
M_SP36	36	36	FLD	06162004	06162004	11	Flow		1.930	gpm	06/16/2004	1208	20	AB	
M_SP36	36	36	FLD	06162004	06162004	66	Turbidity		0.63	NTU	06/16/2004	1208	20	AB	
M_SP37	36	37	FLD	07202001	07202001	1	Water Temperature		8.2	Deg. C	07/20/2001	1855	20	ED, BH	
M_SP37	36	37	FLD	07202001	07202001	2	pH		8.46	pH units	07/20/2001	1855	20	ED, BH	
M_SP37	36	37	FLD	07202001	07202001	4	Spec. Conductivity		658	umhos/cm	07/20/2001	1855	20	ED, BH	
M_SP37	36	37	FLD	07202001	07202001	11	Flow		1.528	gpm	07/20/2001	1855	20	ED, BH	
M_SP37	36	37	FLD	07202001	07202001	66	Turbidity		2.98	NTU	07/20/2001	1855	20	ED, BH	
M_SP37	36	37	FLD	10052001	10052001	1	Water Temperature		6.1	Deg. C	10/05/2001	1235	20	ED	

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M_SP37	36	37	FLD	10052001	10052001	2	pH		8.12	pH units	10/05/2001	1235	20	ED	
M_SP37	36	37	FLD	10052001	10052001	4	Spec. Conductivity		667	umhos/cm	10/05/2001	1235	20	ED	
M_SP37	36	37	FLD	10052001	10052001	11	Flow		1.660	gpm	10/05/2001	1235	20	ED	
M_SP37	36	37	FLD	10052001	10052001	66	Turbidity		0.00	NTU	10/05/2001	1235	20	ED	
M_SP37	36	37	FLD	05222002	05222002	1	Water Temperature		5.9	Deg. C	05/22/2002	1230	20	SC	
M_SP37	36	37	FLD	05222002	05222002	2	pH		8.58	pH units	05/22/2002	1230	20	SC	
M_SP37	36	37	FLD	05222002	05222002	4	Spec. Conductivity		746	umhos/cm	05/22/2002	1230	20	SC	
M_SP37	36	37	FLD	05222002	05222002	11	Flow		1.827	gpm	05/22/2002	1230	20	SC	
M_SP37	36	37	FLD	05222002	05222002	66	Turbidity		3.97	NTU	05/22/2002	1230	20	SC	
M_SP37	36	37	FLD	09262002	09262002	1	Water Temperature		6.4	Deg. C	09/26/2002	1451	20	ED	
M_SP37	36	37	FLD	09262002	09262002	2	pH		8.10	pH units	09/26/2002	1451	20	ED	
M_SP37	36	37	FLD	09262002	09262002	4	Spec. Conductivity		720	umhos/cm	09/26/2002	1451	20	ED	
M_SP37	36	37	FLD	09262002	09262002	11	Flow		1.424	gpm	09/26/2002	1451	20	ED	
M_SP37	36	37	FLD	09262002	09262002	66	Turbidity		0.10	NTU	09/26/2002	1451	20	ED	
M_SP37	36	37	FLD	06042003	06042003	1	Water Temperature		5.2	Deg. C	06/04/2003	1130	20	MM	
M_SP37	36	37	FLD	06042003	06042003	2	pH		8.33	pH units	06/04/2003	1130	20	MM	
M_SP37	36	37	FLD	06042003	06042003	4	Spec. Conductivity		714	umhos/cm	06/04/2003	1130	20	MM	
M_SP37	36	37	FLD	06042003	06042003	11	Flow		2.110	gpm	06/04/2003	1130	20	MM	
M_SP37	36	37	FLD	06042003	06042003	66	Turbidity		0.41	NTU	06/04/2003	1130	20	MM	
M_SP37	36	37	FLD	09232003	09232003	1	Water Temperature		6.1	Deg. C	09/23/2003	1240	20	AB	
M_SP37	36	37	FLD	09232003	09232003	2	pH		8.11	pH units	09/23/2003	1240	20	AB	
M_SP37	36	37	FLD	09232003	09232003	4	Spec. Conductivity		725	umhos/cm	09/23/2003	1240	20	AB	
M_SP37	36	37	FLD	09232003	09232003	11	Flow		1.540	gpm	09/23/2003	1240	20	AB	
M_SP37	36	37	FLD	09232003	09232003	66	Turbidity		0.45	NTU	09/23/2003	1240	20	AB	
M_SP37	36	37	FLD	06162004	06162004	1	Water Temperature		5.4	Deg. C	06/16/2004	1235	20	AB	
M_SP37	36	37	FLD	06162004	06162004	2	pH		8.26	pH units	06/16/2004	1235	20	AB	
M_SP37	36	37	FLD	06162004	06162004	4	Spec. Conductivity		737	umhos/cm	06/16/2004	1235	20	AB	
M_SP37	36	37	FLD	06162004	06162004	11	Flow		2.327	gpm	06/16/2004	1235	20	AB	
M_SP37	36	37	FLD	06162004	06162004	66	Turbidity		0.00	NTU	06/16/2004	1235	20	AB	
M_SP38	36	38	FLD	07202001	07202001	1	Water Temperature		8.4	Deg. C	07/20/2001	1958	20	ED, BH	
M_SP38	36	38	FLD	07202001	07202001	2	pH		7.99	pH units	07/20/2001	1958	20	ED, BH	
M_SP38	36	38	FLD	07202001	07202001	4	Spec. Conductivity		302	umhos/cm	07/20/2001	1958	20	ED, BH	
M_SP38	36	38	FLD	07202001	07202001	11	Flow		5.171	gpm	07/20/2001	1958	20	ED, BH	
M_SP38	36	38	FLD	07202001	07202001	66	Turbidity		2.52	NTU	07/20/2001	1958	20	ED, BH	
M_SP38	36	38	CTE	59-23149	N/A	1	Water Temperature		8.5	Deg. C	08/29/2001	1116	04	ED	
M_SP38	36	38	CTE	59-23149	N/A	2	pH		7.39	pH units	08/29/2001	1116	04	ED	
M_SP38	36	38	CTE	59-23149	N/A	4	Spec. Conductivity		303	umhos/cm	08/29/2001	1116	04	ED	
M_SP38	36	38	CTE	59-23149	N/A	11	Flow		5.538	gpm	08/29/2001	1116	04	ED	
M_SP38	36	38	CTE	59-23149	N/A	66	Turbidity		0.00	NTU	08/29/2001	1116	04	ED	
M_SP38	36	38	CTE	59-24013	N/A	1	Water Temperature		7.8	Deg. C	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	N/A	2	pH		7.70	pH units	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	N/A	4	Spec. Conductivity		321	umhos/cm	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	N/A	11	Flow		2.832	gpm	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	N/A	66	Turbidity		0.69	NTU	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24557	02-U009461	1	Water Temperature		8.7	Deg. C	09/26/2002	18:44	04	ED	
M_SP38	36	38	CTE	59-24557	02-U009461	2	pH		7.59	pH units	09/26/2002	18:44	04	ED	
M_SP38	36	38	CTE	59-24557	02-U009461	3	D.O.		6.86	mg/l	09/26/2002	18:44	04	ED	
M_SP38	36	38	CTE	59-24557	02-U009461	4	Spec. Conductivity		301	umhos/cm	09/26/2002	18:44	04	ED	
M_SP38	36	38	CTE	59-24557	02-U009461	11	Flow		4.956	gpm	09/26/2002	18:44	04	ED	
M_SP38	36	38	CTE	59-24557	02-U009461	66	Turbidity		0.00	NTU	09/26/2002	18:44	04	ED	
M_SP38	36	38	CTE	59-24799	02-U011435	1	Water Temperature		8.4	Deg. C	11/13/2002	1415	04	JS	
M_SP38	36	38	CTE	59-24799	02-U011435	2	pH		7.64	pH units	11/13/2002	1415	04	JS	
M_SP38	36	38	CTE	59-24799	02-U011435	3	D.O.		8.43	mg/l	11/13/2002	1415	04	JS	
M_SP38	36	38	CTE	59-24799	02-U011435	4	Spec. Conductivity		276	umhos/cm	11/13/2002	1415	04	JS	
M_SP38	36	38	CTE	59-24799	02-U011435	11	Flow		4.999	gpm	11/13/2002	1415	04	JS	
M_SP38	36	38	CTE	59-24799	02-U011435	66	Turbidity		0.00	NTU	11/13/2002	1415	04	JS	
M_SP38	36	38	NOA	03112003	03112003						03/11/2003		11	MM	
M_SP38	36	38	NOA	03272003	03272003						03/27/2003		11	MM	
M_SP38	36	38	CTE	59-25176	03-U004459	1	Water Temperature		7.7	Deg. C	05/20/2003	1000	04	ED, MM	
M_SP38	36	38	CTE	59-25176	03-U004459	2	pH		7.65	pH units	05/20/2003	1000	04	ED, MM	
M_SP38	36	38	CTE	59-25176	03-U004459	3	D.O.		7.06	mg/l	05/20/2003	1000	04	ED, MM	
M_SP38	36	38	CTE	59-25176	03-U004459	4	Spec. Conductivity		178	umhos/cm	05/20/2003	1000	04	ED, MM	
M_SP38	36	38	CTE	59-25176	03-U004459	11	Flow		5.111	gpm	05/20/2003	1000	04	ED, MM	
M_SP38	36	38	CTE	59-25176	03-U004459	66	Turbidity		10.95	NTU	05/20/2003	1000	04	ED, MM	
M_SP38	36	38	CHE	59-25532	03-U007010	1	Water Temperature		8.5	Deg. C	08/04/2003	1845	04	ED, AB	
M_SP38	36	38	CHE	59-25532	03-U007010	2	pH		7.47	pH units	08/04/2003	1845	04	ED, AB	
M_SP38	36	38	CHE	59-25532	03-U007010	3	D.O.		7.14	mg/l	08/04/2003	1845	04	ED, AB	
M_SP38	36	38	CHE	59-25532	03-U007010	4	Spec. Conductivity		267	umhos/cm	08/04/2003	1845	04	ED, AB	
M_SP38	36	38	CHE	59-25532	03-U007010	11	Flow		5.240	gpm	08/04/2003	1845	04	ED, AB	
M_SP38	36	38	CHE	59-25532	03-U007010	66	Turbidity		18.00	NTU	08/04/2003	1845	04	ED, AB	
M_SP38	36	38	CTE	59-25795	03-U009448	1	Water Temperature		8.7	Deg. C	10/07/2003	1230	04	JS, RG	
M_SP38	36	38	CTE	59-25795	03-U009448	2	pH		7.70	pH units	10/07/2003	1230	04	JS, RG	
M_SP38	36	38	CTE	59-25795	03-U009448	3	D.O.		6.29	mg/l	10/07/2003	1230	04	JS, RG	
M_SP38	36	38	CTE	59-25795	03-U009448	4	Spec. Conductivity		312	umhos/cm	10/07/2003	1230	04	JS, RG	
M_SP38	36	38	CTE	59-25795	03-U009448	11	Flow		5.764	gpm	10/07/2003	1230	04	JS, RG	
M_SP38	36	38	CTE	59-25795	03-U009448	66	Turbidity		1.37	NTU	10/07/2003	1230	04	JS, RG	
M_SP38	36	38	NOA	02212004	02212004						02/21/2004		11	MM	

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Spring/Stre	DOI	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's	Comments
M_SP38	36	38	NOA	03242004	03242004						03/24/2004		11	JS	
M_SP38	36	38	CTE	59-26442	04-U005532	1	Water Temperature		7.9	Deg. C	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	04-U005532	2	pH		7.70	pH units	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	04-U005532	3	D.O.		6.87	mg/l	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	04-U005532	4	Spec. Conductivity		313	umhos/cm	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	04-U005532	11	Flow		5.808	gpm	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	04-U005532	66	Turbidity		1.11	NTU	06/06/2004	1621	04	ED	
M_SP39	36	39	CTE	59-23152	N/A	1	Water Temperature		7.1	Deg. C	08/30/2001	0752	04	ED	
M_SP39	36	39	CTE	59-23152	N/A	2	pH		7.16	pH units	08/30/2001	0752	04	ED	
M_SP39	36	39	CTE	59-23152	N/A	4	Spec. Conductivity		590	umhos/cm	08/30/2001	0752	04	ED	
M_SP39	36	39	CTE	59-23152	N/A	11	Flow		1.068	gpm	08/30/2001	0752	04	ED	
M_SP39	36	39	CTE	59-23152	N/A	66	Turbidity			NTU	08/30/2001	0752	04	ED	
M_SP39	36	39	CTE	59-23953	N/A	1	Water Temperature		5.3	Deg. C	05/03/2002	1210	04	SC	
M_SP39	36	39	CTE	59-23953	N/A	2	pH		7.48	pH units	05/03/2002	1210	04	SC	
M_SP39	36	39	CTE	59-23953	N/A	4	Spec. Conductivity		603	umhos/cm	05/03/2002	1210	04	SC	
M_SP39	36	39	CTE	59-23953	N/A	11	Flow		4.663	gpm	05/03/2002	1210	04	SC	
M_SP39	36	39	CTE	59-23953	N/A	66	Turbidity		3.25	NTU	05/03/2002	1210	04	SC	
M_SP39	36	39	CTE	59-24551	02-U009456	1	Water Temperature		6.5	Deg. C	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	02-U009456	2	pH		7.56	pH units	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	02-U009456	3	D.O.		5.63	mg/l	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	02-U009456	4	Spec. Conductivity		1011	umhos/cm	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	02-U009456	11	Flow		0.441	gpm	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	02-U009456	66	Turbidity		0.00	NTU	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24804	02-U011440	1	Water Temperature		5.8	Deg. C	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	02-U011440	2	pH		7.36	pH units	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	02-U011440	3	D.O.		5.04	mg/l	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	02-U011440	4	Spec. Conductivity		986	umhos/cm	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	02-U011440	11	Flow		0.566	gpm	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	02-U011440	66	Turbidity		0.15	NTU	11/13/2002	1135	04	AB	
M_SP39	36	39	NOA	03112003	03112003						03/11/2003		11	MM	
M_SP39	36	39	NOA	03272003	03272003						03/27/2003		11	MM	
M_SP39	36	39	CTE	59-25183	03-U004460	1	Water Temperature		5.7	Deg. C	05/20/2003	1835	04	ED, MM	
M_SP39	36	39	CTE	59-25183	03-U004460	2	pH		7.43	pH units	05/20/2003	1835	04	ED, MM	
M_SP39	36	39	CTE	59-25183	03-U004460	3	D.O.		7.39	mg/l	05/20/2003	1835	04	ED, MM	
M_SP39	36	39	CTE	59-25183	03-U004460	4	Spec. Conductivity		573	umhos/cm	05/20/2003	1835	04	ED, MM	
M_SP39	36	39	CTE	59-25183	03-U004460	11	Flow		2.374	gpm	05/20/2003	1835	04	ED, MM	
M_SP39	36	39	CTE	59-25183	03-U004460	66	Turbidity		9.24	NTU	05/20/2003	1835	04	ED, MM	
M_SP39	36	39	CHE	59-25524	03-U007011	1	Water Temperature		6.4	Deg. C	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	59-25524	03-U007011	2	pH		7.40	pH units	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	59-25524	03-U007011	3	D.O.		5.78	mg/l	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	59-25524	03-U007011	4	Spec. Conductivity		585	umhos/cm	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	59-25524	03-U007011	11	Flow		0.509	gpm	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	59-25524	03-U007011	66	Turbidity		0.11	NTU	08/09/2003	0950	04	AB	
M_SP39	36	39	CTE	59-25796	03-U009449	1	Water Temperature		6.2	Deg. C	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	03-U009449	2	pH		7.39	pH units	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	03-U009449	3	D.O.		4.50	mg/l	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	03-U009449	4	Spec. Conductivity		1035	umhos/cm	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	03-U009449	11	Flow		0.268	gpm	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	03-U009449	66	Turbidity		0.13	NTU	10/07/2003	1805	04	AB	
M_SP39	36	39	NOA	02212004	02212004						02/21/2004		11	MM	
M_SP39	36	39	NOA	03242004	03242004						03/24/2004		11	JS	
M_SP39	36	39	CTE	59-26335	04-U004624	1	Water Temperature		5.7	Deg. C	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	04-U004624	2	pH		7.54	pH units	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	04-U004624	3	D.O.		4.86	mg/l	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	04-U004624	4	Spec. Conductivity		604	umhos/cm	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	04-U004624	11	Flow		0.446	gpm	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	04-U004624	66	Turbidity		0.24	NTU	05/12/2004	1120	04	AB	
M_SP40	36	40	FLD	09262001	09262001	1	Water Temperature		7.9	Deg. C	09/26/2001	1951	20	ED	
M_SP40	36	40	FLD	09262001	09262001	2	pH		7.64	pH units	09/26/2001	1951	20	ED	
M_SP40	36	40	FLD	09262001	09262001	4	Spec. Conductivity		497	umhos/cm	09/26/2001	1951	20	ED	
M_SP40	36	40	FLD	09262001	09262001	11	Flow		0.657	gpm	09/26/2001	1951	20	ED	
M_SP40	36	40	FLD	09262001	09262001	66	Turbidity		30.40	NTU	09/26/2001	1951	20	ED	
M_SP40	36	40	FLD	05022002	05022002	1	Water Temperature		7.5	Deg. C	05/02/2002	1530	20	SC	
M_SP40	36	40	FLD	05022002	05022002	2	pH		7.92	pH units	05/02/2002	1530	20	SC	
M_SP40	36	40	FLD	05022002	05022002	4	Spec. Conductivity		865	umhos/cm	05/02/2002	1530	20	SC	
M_SP40	36	40	FLD	05022002	05022002	11	Flow		0.455	gpm	05/02/2002	1530	20	SC	
M_SP40	36	40	FLD	05022002	05022002	66	Turbidity		11.60	NTU	05/02/2002	1530	20	SC	
M_SP40	36	40	FLD	09282002	09282002	1	Water Temperature		8.4	Deg. C	09/28/2002	1521	20	ED	
M_SP40	36	40	FLD	09282002	09282002	2	pH		7.72	pH units	09/28/2002	1521	20	ED	
M_SP40	36	40	FLD	09282002	09282002	4	Spec. Conductivity		483	umhos/cm	09/28/2002	1521	20	ED	
M_SP40	36	40	FLD	09282002	09282002	11	Flow		0.336	gpm	09/28/2002	1521	20	ED	
M_SP40	36	40	FLD	09282002	09282002	66	Turbidity		0.70	NTU	09/28/2002	1521	20	ED	
M_SP40	36	40	FLD	05222003	05222003	1	Water Temperature		6.9	Deg. C	05/22/2003	1231	20	ED, MM	
M_SP40	36	40	FLD	05222003	05222003	2	pH		7.77	pH units	05/22/2003	1231	20	ED, MM	
M_SP40	36	40	FLD	05222003	05222003	4	Spec. Conductivity		538	umhos/cm	05/22/2003	1231	20	ED, MM	
M_SP40	36	40	FLD	05222003	05222003	11	Flow		0.314	gpm	05/22/2003	1231	20	ED, MM	
M_SP40	36	40	FLD	05222003	05222003	66	Turbidity		15.03	NTU	05/22/2003	1231	20	ED, MM	

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Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	Sam	Sampler's	Comments
M_SP40	36	40	FLD	10092003	10092003	1	Water Temperature		8.3	Deg. C	10/09/2003	1220	20	AB	
M_SP40	36	40	FLD	10092003	10092003	2	pH		7.76	pH units	10/09/2003	1220	20	AB	
M_SP40	36	40	FLD	10092003	10092003	4	Spec. Conductivity		900	umhos/cm	10/09/2003	1220	20	AB	
M_SP40	36	40	FLD	10092003	10092003	11	Flow		0.180	gpm	10/09/2003	1220	20	AB	
M_SP40	36	40	FLD	10092003	10092003	66	Turbidity		19.00	NTU	10/09/2003	1220	20	AB	
M_SP40	36	40	FLD	06062004	06062004	1	Water Temperature		7.7	Deg. C	06/06/2004	1144	20	ED	
M_SP40	36	40	FLD	06062004	06062004	2	pH		8.10	pH units	06/06/2004	1144	20	ED	
M_SP40	36	40	FLD	06062004	06062004	4	Spec. Conductivity		545	umhos/cm	06/06/2004	1144	20	ED	
M_SP40	36	40	FLD	06062004	06062004	11	Flow		0.447	gpm	06/06/2004	1144	20	ED	
M_SP40	36	40	FLD	06062004	06062004	66	Turbidity		0.68	NTU	06/06/2004	1144	20	ED	
M_SP41	36	41	FLD	09262001	09262001	1	Water Temperature		5.3	Deg. C	09/26/2001	1919	20	ED	
M_SP41	36	41	FLD	09262001	09262001	2	pH		7.85	pH units	09/26/2001	1919	20	ED	
M_SP41	36	41	FLD	09262001	09262001	4	Spec. Conductivity		285	umhos/cm	09/26/2001	1919	20	ED	
M_SP41	36	41	FLD	09262001	09262001	11	Flow		0.422	gpm	09/26/2001	1919	20	ED	
M_SP41	36	41	FLD	09262001	09262001	66	Turbidity		1.25	NTU	09/26/2001	1919	20	ED	
M_SP41	36	41	FLD	05022002	05022002	1	Water Temperature		10.2	Deg. C	05/02/2002	1444	20	SC	
M_SP41	36	41	FLD	05022002	05022002	2	pH		8.53	pH units	05/02/2002	1444	20	SC	
M_SP41	36	41	FLD	05022002	05022002	4	Spec. Conductivity		616	umhos/cm	05/02/2002	1444	20	SC	
M_SP41	36	41	FLD	05022002	05022002	11	Flow		2.253	gpm	05/02/2002	1444	20	SC	
M_SP41	36	41	FLD	05022002	05022002	66	Turbidity		28.90	NTU	05/02/2002	1444	20	SC	
M_SP41	36	41	FLD	09282002	09282002	1	Water Temperature		5.1	Deg. C	09/28/2002	1432	20	ED	
M_SP41	36	41	FLD	09282002	09282002	2	pH		7.97	pH units	09/28/2002	1432	20	ED	
M_SP41	36	41	FLD	09282002	09282002	4	Spec. Conductivity		323	umhos/cm	09/28/2002	1432	20	ED	
M_SP41	36	41	FLD	09282002	09282002	11	Flow		0.427	gpm	09/28/2002	1432	20	ED	
M_SP41	36	41	FLD	09282002	09282002	66	Turbidity		4.50	NTU	09/28/2002	1432	20	ED	
M_SP41	36	41	FLD	05222003	05222003	1	Water Temperature		3.9	Deg. C	05/22/2003	1200	20	ED, MM	
M_SP41	36	41	FLD	05222003	05222003	2	pH		7.99	pH units	05/22/2003	1200	20	ED, MM	
M_SP41	36	41	FLD	05222003	05222003	4	Spec. Conductivity		429	umhos/cm	05/22/2003	1200	20	ED, MM	
M_SP41	36	41	FLD	05222003	05222003	11	Flow		0.472	gpm	05/22/2003	1200	20	ED, MM	
M_SP41	36	41	FLD	05222003	05222003	66	Turbidity		24.03	NTU	05/22/2003	1200	20	ED, MM	
M_SP41	36	41	FLD	10092003	10092003	1	Water Temperature		4.9	Deg. C	10/09/2003	1145	20	AB	
M_SP41	36	41	FLD	10092003	10092003	2	pH		7.67	pH units	10/09/2003	1145	20	AB	
M_SP41	36	41	FLD	10092003	10092003	4	Spec. Conductivity		799	umhos/cm	10/09/2003	1145	20	AB	
M_SP41	36	41	FLD	10092003	10092003	11	Flow		0.402	gpm	10/09/2003	1145	20	AB	
M_SP41	36	41	FLD	10092003	10092003	66	Turbidity		0.86	NTU	10/09/2003	1145	20	AB	
M_SP41	36	41	FLD	06062004	06062004	1	Water Temperature		6.0	Deg. C	06/06/2004	1103	20	ED	
M_SP41	36	41	FLD	06062004	06062004	2	pH		8.14	pH units	06/06/2004	1103	20	ED	
M_SP41	36	41	FLD	06062004	06062004	4	Spec. Conductivity		452	umhos/cm	06/06/2004	1103	20	ED	
M_SP41	36	41	FLD	06062004	06062004	11	Flow		0.509	gpm	06/06/2004	1103	20	ED	
M_SP41	36	41	FLD	06062004	06062004	66	Turbidity		0.48	NTU	06/06/2004	1103	20	ED	
M_SP42	36	42	FLD	07192001	07192001	1	Water Temperature		20.7	Deg. C	07/19/2001	2020	20	BH, ED	
M_SP42	36	42	FLD	07192001	07192001	2	pH		8.59	pH units	07/19/2001	2020	20	BH, ED	
M_SP42	36	42	FLD	07192001	07192001	4	Spec. Conductivity		241	umhos/cm	07/19/2001	2020	20	BH, ED	
M_SP42	36	42	FLD	07192001	07192001	11	Flow		12.676	gpm	07/19/2001	2020	20	BH, ED	
M_SP42	36	42	FLD	07192001	07192001	66	Turbidity		2.44	NTU	07/19/2001	2020	20	BH, ED	
M_SP42	36	42	NOF	10062001	10062001						10/06/2001	0915	10	ED	
M_SP42	36	42	FLD	05232002	05232002	1	Water Temperature		8.7	Deg. C	05/23/2002	1204	20	ED	
M_SP42	36	42	FLD	05232002	05232002	2	pH		8.30	pH units	05/23/2002	1204	20	ED	
M_SP42	36	42	FLD	05232002	05232002	4	Spec. Conductivity		466	umhos/cm	05/23/2002	1204	20	ED	
M_SP42	36	42	FLD	05232002	05232002	11	Flow		37.975	gpm	05/23/2002	1204	20	ED	
M_SP42	36	42	FLD	05232002	05232002	66	Turbidity		3.22	NTU	05/23/2002	1204	20	ED	
M_SP42	36	42	NOF	10082002	10082002						10/08/2002	1231	10	ED	
M_SP42	36	42	FLD	06042003	06042003	1	Water Temperature		19.5	Deg. C	06/04/2003	1554	20	ED	
M_SP42	36	42	FLD	06042003	06042003	2	pH		8.24	pH units	06/04/2003	1554	20	ED	
M_SP42	36	42	FLD	06042003	06042003	4	Spec. Conductivity		500	umhos/cm	06/04/2003	1554	20	ED	
M_SP42	36	42	FLD	06042003	06042003	11	Flow		48.600	gpm	06/04/2003	1554	20	ED	
M_SP42	36	42	FLD	06042003	06042003	66	Turbidity		26.40	NTU	06/04/2003	1554	20	ED	
M_SP42	36	42	NOF	09242003	09242003						09/24/2003	1420	10	RG	
M_SP42	36	42	FLD	06042004	06042004	1	Water Temperature		18.8	Deg. C	06/04/2004	1914	20	ED	
M_SP42	36	42	FLD	06042004	06042004	2	pH		8.06	pH units	06/04/2004	1914	20	ED	
M_SP42	36	42	FLD	06042004	06042004	4	Spec. Conductivity		484	umhos/cm	06/04/2004	1914	20	ED	
M_SP42	36	42	FLD	06042004	06042004	11	Flow		42.800	gpm	06/04/2004	1914	20	ED	
M_SP42	36	42	FLD	06042004	06042004	66	Turbidity		0.98	NTU	06/04/2004	1914	20	ED	
M_SP43	36	43	FLD	10032001	10032001	1	Water Temperature		7.7	Deg. C	10/03/2001	1455	20	ED	
M_SP43	36	43	FLD	10032001	10032001	2	pH		7.70	pH units	10/03/2001	1455	20	ED	
M_SP43	36	43	FLD	10032001	10032001	4	Spec. Conductivity		370	umhos/cm	10/03/2001	1455	20	ED	
M_SP43	36	43	FLD	10032001	10032001	11	Flow		1.077	gpm	10/03/2001	1455	20	ED	
M_SP43	36	43	FLD	10032001	10032001	66	Turbidity		24.80	NTU	10/03/2001	1455	20	ED	
M_SP43	36	43	FLD	05022002	05022002	1	Water Temperature		5.9	Deg. C	05/02/2002	1710	20	ED	
M_SP43	36	43	FLD	05022002	05022002	2	pH		7.76	pH units	05/02/2002	1710	20	ED	
M_SP43	36	43	FLD	05022002	05022002	4	Spec. Conductivity		371	umhos/cm	05/02/2002	1710	20	ED	
M_SP43	36	43	FLD	05022002	05022002	11	Flow		0.881	gpm	05/02/2002	1710	20	ED	
M_SP43	36	43	FLD	05022002	05022002	66	Turbidity		0.00	NTU	05/02/2002	1710	20	ED	
M_SP43	36	43	FLD	09282002	09282002	1	Water Temperature		9.6	Deg. C	09/28/2002	1115	20	ED	
M_SP43	36	43	FLD	09282002	09282002	2	pH		7.91	pH units	09/28/2002	1115	20	ED	
M_SP43	36	43	FLD	09282002	09282002	4	Spec. Conductivity		406	umhos/cm	09/28/2002	1115	20	ED	
M_SP43	36	43	FLD	09282002	09282002	11	Flow		0.385	gpm	09/28/2002	1115	20	ED	

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M_SP43	36	43	FLD	09282002	09282002	66	Turbidity		110.00	NTU	09/28/2002	1115	20	ED	
M_SP43	36	43	FLD	05222003	05222003	1	Water Temperature		9.6	Deg. C	05/22/2003	1513	20	ED, MM	
M_SP43	36	43	FLD	05222003	05222003	2	pH		7.87	pH units	05/22/2003	1513	20	ED, MM	
M_SP43	36	43	FLD	05222003	05222003	4	Spec. Conductivity		344	umhos/cm	05/22/2003	1513	20	ED, MM	
M_SP43	36	43	FLD	05222003	05222003	11	Flow		1.105	gpm	05/22/2003	1513	20	ED, MM	
M_SP43	36	43	FLD	05222003	05222003	66	Turbidity		31.21	NTU	05/22/2003	1513	20	ED, MM	
M_SP43	36	43	FLD	09262003	09262003	1	Water Temperature		10.4	Deg. C	09/26/2003	1730	20	RG	
M_SP43	36	43	FLD	09262003	09262003	2	pH		7.66	pH units	09/26/2003	1730	20	RG	
M_SP43	36	43	FLD	09262003	09262003	4	Spec. Conductivity		437	umhos/cm	09/26/2003	1730	20	RG	
M_SP43	36	43	FLD	09262003	09262003	11	Flow		0.647	gpm	09/26/2003	1730	20	RG	
M_SP43	36	43	FLD	09262003	09262003	66	Turbidity		52.50	NTU	09/26/2003	1730	20	RG	
M_SP43	36	43	FLD	06052004	06052004	1	Water Temperature		6.6	Deg. C	06/05/2004	1916	20	ED	
M_SP43	36	43	FLD	06052004	06052004	2	pH		7.80	pH units	06/05/2004	1916	20	ED	
M_SP43	36	43	FLD	06052004	06052004	4	Spec. Conductivity		638	umhos/cm	06/05/2004	1916	20	ED	
M_SP43	36	43	FLD	06052004	06052004	11	Flow		2.078	gpm	06/05/2004	1916	20	ED	
M_SP43	36	43	FLD	06052004	06052004	66	Turbidity		4.24	NTU	06/05/2004	1916	20	ED	
M_SP44	36	44	FLD	10032001	10032001	1	Water Temperature		9.2	Deg. C	10/03/2001	1653	20	ED	
M_SP44	36	44	FLD	10032001	10032001	2	pH		7.52	pH units	10/03/2001	1653	20	ED	
M_SP44	36	44	FLD	10032001	10032001	4	Spec. Conductivity		314	umhos/cm	10/03/2001	1653	20	ED	
M_SP44	36	44	FLD	10032001	10032001	11	Flow		0.561	gpm	10/03/2001	1653	20	ED	
M_SP44	36	44	FLD	10032001	10032001	66	Turbidity		5.39	NTU	10/03/2001	1653	20	ED	
M_SP44	36	44	FLD	05022002	05022002	1	Water Temperature		4.8	Deg. C	05/02/2002	1910	20	ED	
M_SP44	36	44	FLD	05022002	05022002	2	pH		7.66	pH units	05/02/2002	1910	20	ED	
M_SP44	36	44	FLD	05022002	05022002	4	Spec. Conductivity		269	umhos/cm	05/02/2002	1910	20	ED	
M_SP44	36	44	FLD	05022002	05022002	11	Flow		2.018	gpm	05/02/2002	1910	20	ED	
M_SP44	36	44	FLD	05022002	05022002	66	Turbidity		0.00	NTU	05/02/2002	1910	20	ED	
M_SP44	36	44	FLD	09282002	09282002	1	Water Temperature		10.3	Deg. C	09/28/2002	1009	20	ED	
M_SP44	36	44	FLD	09282002	09282002	2	pH		7.66	pH units	09/28/2002	1009	20	ED	
M_SP44	36	44	FLD	09282002	09282002	4	Spec. Conductivity		376	umhos/cm	09/28/2002	1009	20	ED	
M_SP44	36	44	FLD	09282002	09282002	11	Flow		0.196	gpm	09/28/2002	1009	20	ED	
M_SP44	36	44	FLD	09282002	09282002	66	Turbidity		110.00	NTU	09/28/2002	1009	20	ED	
M_SP44	36	44	FLD	05222003	05222003	1	Water Temperature		6.1	Deg. C	05/22/2003	1430	20	ED, MM	
M_SP44	36	44	FLD	05222003	05222003	2	pH		7.65	pH units	05/22/2003	1430	20	ED, MM	
M_SP44	36	44	FLD	05222003	05222003	4	Spec. Conductivity		276	umhos/cm	05/22/2003	1430	20	ED, MM	
M_SP44	36	44	FLD	05222003	05222003	11	Flow		13.029	gpm	05/22/2003	1430	20	ED, MM	
M_SP44	36	44	FLD	05222003	05222003	66	Turbidity		11.91	NTU	05/22/2003	1430	20	ED, MM	
M_SP44	36	44	FLD	09242003	09242003	1	Water Temperature		12.1	Deg. C	09/24/2003	1910	20	RG	
M_SP44	36	44	FLD	09242003	09242003	2	pH		7.93	pH units	09/24/2003	1910	20	RG	
M_SP44	36	44	FLD	09242003	09242003	4	Spec. Conductivity		721	umhos/cm	09/24/2003	1910	20	RG	
M_SP44	36	44	FLD	09242003	09242003	11	Flow		0.197	gpm	09/24/2003	1910	20	RG	
M_SP44	36	44	FLD	09242003	09242003	66	Turbidity		15.30	NTU	09/24/2003	1910	20	RG	
M_SP44	36	44	FLD	06052004	06052004	1	Water Temperature		5.4	Deg. C	06/05/2004	2016	20	ED	
M_SP44	36	44	FLD	06052004	06052004	2	pH		7.65	pH units	06/05/2004	2016	20	ED	
M_SP44	36	44	FLD	06052004	06052004	4	Spec. Conductivity		542	umhos/cm	06/05/2004	2016	20	ED	
M_SP44	36	44	FLD	06052004	06052004	11	Flow		4.900	gpm	06/05/2004	2016	20	ED	
M_SP44	36	44	FLD	06052004	06052004	66	Turbidity		0.00	NTU	06/05/2004	2016	20	ED	
M_SP45	36	45	FLD	10042001	10042001	1	Water Temperature		5.9	Deg. C	10/04/2001	1340	20	ED	
M_SP45	36	45	FLD	10042001	10042001	2	pH		7.32	pH units	10/04/2001	1340	20	ED	
M_SP45	36	45	FLD	10042001	10042001	4	Spec. Conductivity		508	umhos/cm	10/04/2001	1340	20	ED	
M_SP45	36	45	FLD	10042001	10042001	11	Flow		2.230	gpm	10/04/2001	1340	20	ED	
M_SP45	36	45	FLD	10042001	10042001	66	Turbidity		0.60	NTU	10/04/2001	1340	20	ED	
M_SP45	36	45	FLD	05032002	05032002	1	Water Temperature		3.5	Deg. C	05/03/2002	0900	20	ED	
M_SP45	36	45	FLD	05032002	05032002	2	pH		7.85	pH units	05/03/2002	0900	20	ED	
M_SP45	36	45	FLD	05032002	05032002	4	Spec. Conductivity		969	umhos/cm	05/03/2002	0900	20	ED	
M_SP45	36	45	FLD	05032002	05032002	11	Flow		1.837	gpm	05/03/2002	0900	20	ED	
M_SP45	36	45	FLD	05032002	05032002	66	Turbidity		0.00	NTU	05/03/2002	0900	20	ED	
M_SP45	36	45	FLD	09252002	09252002	1	Water Temperature		6.0	Deg. C	09/25/2002	1800	20	AB	
M_SP45	36	45	FLD	09252002	09252002	2	pH		7.58	pH units	09/25/2002	1800	20	AB	
M_SP45	36	45	FLD	09252002	09252002	4	Spec. Conductivity		977	umhos/cm	09/25/2002	1800	20	AB	
M_SP45	36	45	FLD	09252002	09252002	11	Flow		1.713	gpm	09/25/2002	1800	20	AB	
M_SP45	36	45	FLD	09252002	09252002	66	Turbidity		0.00	NTU	09/25/2002	1800	20	AB	
M_SP45	36	45	FLD	05212003	05212003	1	Water Temperature		3.7	Deg. C	05/21/2003	2045	20	AB	
M_SP45	36	45	FLD	05212003	05212003	2	pH		7.30	pH units	05/21/2003	2045	20	AB	
M_SP45	36	45	FLD	05212003	05212003	4	Spec. Conductivity		977	umhos/cm	05/21/2003	2045	20	AB	
M_SP45	36	45	FLD	05212003	05212003	11	Flow		1.824	gpm	05/21/2003	2045	20	AB	
M_SP45	36	45	FLD	05212003	05212003	66	Turbidity		1.67	NTU	05/21/2003	2045	20	AB	
M_SP45	36	45	FLD	09272003	09272003	1	Water Temperature		5.9	Deg. C	09/27/2003	1200	20	AB	
M_SP45	36	45	FLD	09272003	09272003	2	pH		7.30	pH units	09/27/2003	1200	20	AB	
M_SP45	36	45	FLD	09272003	09272003	4	Spec. Conductivity		545	umhos/cm	09/27/2003	1200	20	AB	
M_SP45	36	45	FLD	09272003	09272003	11	Flow		1.541	gpm	09/27/2003	1200	20	AB	
M_SP45	36	45	FLD	09272003	09272003	66	Turbidity		0.29	NTU	09/27/2003	1200	20	AB	
M_SP45	36	45	FLD	06032004	06032004	1	Water Temperature		5.0	Deg. C	06/03/2004	2017	20	AB	
M_SP45	36	45	FLD	06032004	06032004	2	pH		7.42	pH units	06/03/2004	2017	20	AB	
M_SP45	36	45	FLD	06032004	06032004	4	Spec. Conductivity		369	umhos/cm	06/03/2004	2017	20	AB	
M_SP45	36	45	FLD	06032004	06032004	11	Flow		0.673	gpm	06/03/2004	2017	20	AB	
M_SP45	36	45	FLD	06032004	06032004	66	Turbidity		1.08	NTU	06/03/2004	2017	20	AB	
M_SP46	36	46	FLD	10052001	10052001	1	Water Temperature		5.8	Deg. C	10/05/2001	1652	20	ED	

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M_SP46	36	46	FLD	10052001	10052001	2	pH		7.61	pH units	10/05/2001	1652	20	ED	
M_SP46	36	46	FLD	10052001	10052001	4	Spec. Conductivity		278	umhos/cm	10/05/2001	1652	20	ED	
M_SP46	36	46	FLD	10052001	10052001	11	Flow		1.397	gpm	10/05/2001	1652	20	ED	
M_SP46	36	46	FLD	10052001	10052001	66	Turbidity		0.15	NTU	10/05/2001	1652	20	ED	
M_SP46	36	46	FLD	05232002	05232002	1	Water Temperature		5.1	Deg. C	05/23/2002	1625	20	SC	
M_SP46	36	46	FLD	05232002	05232002	2	pH		8.35	pH units	05/23/2002	1625	20	SC	
M_SP46	36	46	FLD	05232002	05232002	4	Spec. Conductivity		286	umhos/cm	05/23/2002	1625	20	SC	
M_SP46	36	46	FLD	05232002	05232002	11	Flow		1.172	gpm	05/23/2002	1625	20	SC	
M_SP46	36	46	FLD	05232002	05232002	66	Turbidity		20.30	NTU	05/23/2002	1625	20	SC	
M_SP46	36	46	FLD	10062002	10062002	1	Water Temperature		5.5	Deg. C	10/06/2002	1749	20	AB	
M_SP46	36	46	FLD	10062002	10062002	2	pH		7.01	pH units	10/06/2002	1749	20	AB	
M_SP46	36	46	FLD	10062002	10062002	4	Spec. Conductivity		518	umhos/cm	10/06/2002	1749	20	AB	
M_SP46	36	46	FLD	10062002	10062002	11	Flow		1.185	gpm	10/06/2002	1749	20	AB	
M_SP46	36	46	FLD	10062002	10062002	66	Turbidity		0.32	NTU	10/06/2002	1749	20	AB	
M_SP46	36	46	FLD	06032003	06032003	1	Water Temperature		3.8	Deg. C	06/03/2003	1848	20	MM	
M_SP46	36	46	FLD	06032003	06032003	2	pH		7.42	pH units	06/03/2003	1848	20	MM	
M_SP46	36	46	FLD	06032003	06032003	4	Spec. Conductivity		184	umhos/cm	06/03/2003	1848	20	MM	
M_SP46	36	46	FLD	06032003	06032003	11	Flow		2.105	gpm	06/03/2003	1848	20	MM	
M_SP46	36	46	FLD	06032003	06032003	66	Turbidity		1.32	NTU	06/03/2003	1848	20	MM	
M_SP46	36	46	FLD	09252003	09252003	1	Water Temperature		5.6	Deg. C	09/25/2003	1435	20	AB	
M_SP46	36	46	FLD	09252003	09252003	2	pH		7.55	pH units	09/25/2003	1435	20	AB	
M_SP46	36	46	FLD	09252003	09252003	4	Spec. Conductivity		272	umhos/cm	09/25/2003	1435	20	AB	
M_SP46	36	46	FLD	09252003	09252003	11	Flow		1.409	gpm	09/25/2003	1435	20	AB	
M_SP46	36	46	FLD	09252003	09252003	66	Turbidity		0.13	NTU	09/25/2003	1435	20	AB	
M_SP46	36	46	FLD	06152004	06152004	1	Water Temperature		4.0	Deg. C	06/15/2004	1327	20	AB	
M_SP46	36	46	FLD	06152004	06152004	2	pH		7.49	pH units	06/15/2004	1327	20	AB	
M_SP46	36	46	FLD	06152004	06152004	4	Spec. Conductivity		315	umhos/cm	06/15/2004	1327	20	AB	
M_SP46	36	46	FLD	06152004	06152004	11	Flow		2.514	gpm	06/15/2004	1327	20	AB	
M_SP46	36	46	FLD	06152004	06152004	66	Turbidity		0.20	NTU	06/15/2004	1327	20	AB	
M_SP47	36	47	FLD	10062001	10062001	1	Water Temperature		8.3	Deg. C	10/06/2001	1132	20	ED	
M_SP47	36	47	FLD	10062001	10062001	2	pH		7.74	pH units	10/06/2001	1132	20	ED	
M_SP47	36	47	FLD	10062001	10062001	4	Spec. Conductivity		283	umhos/cm	10/06/2001	1132	20	ED	
M_SP47	36	47	FLD	10062001	10062001	11	Flow		3.517	gpm	10/06/2001	1132	20	ED	
M_SP47	36	47	FLD	10062001	10062001	66	Turbidity		1.66	NTU	10/06/2001	1132	20	ED	
M_SP47	36	47	FLD	05232002	05232002	1	Water Temperature		6.1	Deg. C	05/23/2002	1545	20	ED	
M_SP47	36	47	FLD	05232002	05232002	2	pH		7.78	pH units	05/23/2002	1545	20	ED	
M_SP47	36	47	FLD	05232002	05232002	4	Spec. Conductivity		503	umhos/cm	05/23/2002	1545	20	ED	
M_SP47	36	47	FLD	05232002	05232002	11	Flow		2.502	gpm	05/23/2002	1545	20	ED	
M_SP47	36	47	FLD	05232002	05232002	66	Turbidity		0.00	NTU	05/23/2002	1545	20	ED	
M_SP47	36	47	FLD	10082002	10082002	1	Water Temperature		8.3	Deg. C	10/08/2002	1352	20	ED	
M_SP47	36	47	FLD	10082002	10082002	2	pH		7.49	pH units	10/08/2002	1352	20	ED	
M_SP47	36	47	FLD	10082002	10082002	4	Spec. Conductivity		293	umhos/cm	10/08/2002	1352	20	ED	
M_SP47	36	47	FLD	10082002	10082002	11	Flow		3.884	gpm	10/08/2002	1352	20	ED	
M_SP47	36	47	FLD	10082002	10082002	66	Turbidity			NTU	10/08/2002	1352	20	ED	
M_SP47	36	47	FLD	06042003	06042003	1	Water Temperature		5.8	Deg. C	06/04/2003	1936	20	ED	
M_SP47	36	47	FLD	06042003	06042003	2	pH		7.59	pH units	06/04/2003	1936	20	ED	
M_SP47	36	47	FLD	06042003	06042003	4	Spec. Conductivity		530	umhos/cm	06/04/2003	1936	20	ED	
M_SP47	36	47	FLD	06042003	06042003	11	Flow		14.499	gpm	06/04/2003	1936	20	ED	
M_SP47	36	47	FLD	06042003	06042003	66	Turbidity		16.80	NTU	06/04/2003	1936	20	ED	
M_SP47	36	47	FLD	09292003	09292003	1	Water Temperature		9.4	Deg. C	09/29/2003	1155	20	RG	
M_SP47	36	47	FLD	09292003	09292003	2	pH		7.70	pH units	09/29/2003	1155	20	RG	
M_SP47	36	47	FLD	09292003	09292003	4	Spec. Conductivity		259	umhos/cm	09/29/2003	1155	20	RG	
M_SP47	36	47	FLD	09292003	09292003	11	Flow		3.123	gpm	09/29/2003	1155	20	RG	
M_SP47	36	47	FLD	09292003	09292003	66	Turbidity		13.50	NTU	09/29/2003	1155	20	RG	
M_SP47	36	47	FLD	06042004	06042004	1	Water Temperature		6.3	Deg. C	06/04/2004	2116	20	ED	
M_SP47	36	47	FLD	06042004	06042004	2	pH		7.57	pH units	06/04/2004	2116	20	ED	
M_SP47	36	47	FLD	06042004	06042004	4	Spec. Conductivity		526	umhos/cm	06/04/2004	2116	20	ED	
M_SP47	36	47	FLD	06042004	06042004	11	Flow		15.692	gpm	06/04/2004	2116	20	ED	
M_SP47	36	47	FLD	06042004	06042004	66	Turbidity		1.15	NTU	06/04/2004	2116	20	ED	
M_SP48	36	48	FLD	10192001	10192001	1	Water Temperature		9.7	Deg. C	10/19/2001	0950	20	ED	
M_SP48	36	48	FLD	10192001	10192001	2	pH		7.96	pH units	10/19/2001	0950	20	ED	
M_SP48	36	48	FLD	10192001	10192001	4	Spec. Conductivity		311	umhos/cm	10/19/2001	0950	20	ED	
M_SP48	36	48	FLD	10192001	10192001	11	Flow		1.213	gpm	10/19/2001	0950	20	ED	
M_SP48	36	48	FLD	10192001	10192001	66	Turbidity		0.30	NTU	10/19/2001	0950	20	ED	
M_SP48	36	48	FLD	05222002	05222002	1	Water Temperature		7.7	Deg. C	05/22/2002	1520	20	SC	
M_SP48	36	48	FLD	05222002	05222002	2	pH		8.08	pH units	05/22/2002	1520	20	SC	
M_SP48	36	48	FLD	05222002	05222002	4	Spec. Conductivity		345	umhos/cm	05/22/2002	1520	20	SC	
M_SP48	36	48	FLD	05222002	05222002	11	Flow		1.694	gpm	05/22/2002	1520	20	SC	
M_SP48	36	48	FLD	05222002	05222002	66	Turbidity		7.99	NTU	05/22/2002	1520	20	SC	
M_SP48	36	48	FLD	10072002	10072002	1	Water Temperature		9.6	Deg. C	10/07/2002	1040	20	AB	
M_SP48	36	48	FLD	10072002	10072002	2	pH		8.03	pH units	10/07/2002	1040	20	AB	
M_SP48	36	48	FLD	10072002	10072002	4	Spec. Conductivity		545	umhos/cm	10/07/2002	1040	20	AB	
M_SP48	36	48	FLD	10072002	10072002	11	Flow		0.959	gpm	10/07/2002	1040	20	AB	
M_SP48	36	48	FLD	10072002	10072002	66	Turbidity		3.63	NTU	10/07/2002	1040	20	AB	
M_SP48	36	48	FLD	06042003	06042003	1	Water Temperature		7.1	Deg. C	06/04/2003	1800	20	MM	
M_SP48	36	48	FLD	06042003	06042003	2	pH		7.92	pH units	06/04/2003	1800	20	MM	
M_SP48	36	48	FLD	06042003	06042003	4	Spec. Conductivity		321	umhos/cm	06/04/2003	1800	20	MM	

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M_SP48	36	48	FLD	06042003	06042003	11	Flow		1.307	gpm	06/04/2003	1800	20	MM	
M_SP48	36	48	FLD	06042003	06042003	66	Turbidity		0.27	NTU	06/04/2003	1800	20	MM	
M_SP48	36	48	FLD	09232003	09232003	1	Water Temperature		9.7	Deg. C	09/23/2003	1640	20	AB	
M_SP48	36	48	FLD	09232003	09232003	2	pH		8.00	pH units	09/23/2003	1640	20	AB	
M_SP48	36	48	FLD	09232003	09232003	4	Spec. Conductivity		330	umhos/cm	09/23/2003	1640	20	AB	
M_SP48	36	48	FLD	09232003	09232003	11	Flow		1.119	gpm	09/23/2003	1640	20	AB	
M_SP48	36	48	FLD	09232003	09232003	66	Turbidity		0.00	NTU	09/23/2003	1640	20	AB	
M_SP48	36	48	FLD	06162004	06162004	1	Water Temperature		7.6	Deg. C	06/16/2004	1632	20	AB	
M_SP48	36	48	FLD	06162004	06162004	2	pH		8.05	pH units	06/16/2004	1632	20	AB	
M_SP48	36	48	FLD	06162004	06162004	4	Spec. Conductivity		341	umhos/cm	06/16/2004	1632	20	AB	
M_SP48	36	48	FLD	06162004	06162004	11	Flow		1.482	gpm	06/16/2004	1632	20	AB	
M_SP48	36	48	FLD	06162004	06162004	66	Turbidity		0.00	NTU	06/16/2004	1632	20	AB	
M_SP49	36	49	FLD	10192001	10192001	1	Water Temperature		9.2	Deg. C	10/19/2001	1109	20	ED	
M_SP49	36	49	FLD	10192001	10192001	2	pH		8.29	pH units	10/19/2001	1109	20	ED	
M_SP49	36	49	FLD	10192001	10192001	4	Spec. Conductivity		303	umhos/cm	10/19/2001	1109	20	ED	
M_SP49	36	49	FLD	10192001	10192001	11	Flow		0.363	gpm	10/19/2001	1109	20	ED	
M_SP49	36	49	FLD	10192001	10192001	66	Turbidity		11.30	NTU	10/19/2001	1109	20	ED	
M_SP49	36	49	FLD	05222002	05222002	1	Water Temperature		7.7	Deg. C	05/22/2002	1630	20	SC	
M_SP49	36	49	FLD	05222002	05222002	2	pH		8.29	pH units	05/22/2002	1630	20	SC	
M_SP49	36	49	FLD	05222002	05222002	4	Spec. Conductivity		347	umhos/cm	05/22/2002	1630	20	SC	
M_SP49	36	49	FLD	05222002	05222002	11	Flow		0.261	gpm	05/22/2002	1630	20	SC	
M_SP49	36	49	FLD	05222002	05222002	66	Turbidity		7.86	NTU	05/22/2002	1630	20	SC	
M_SP49	36	49	FLD	10082002	10082002	1	Water Temperature		7.9	Deg. C	10/08/2002	0930	20	AB	
M_SP49	36	49	FLD	10082002	10082002	2	pH		7.22	pH units	10/08/2002	0930	20	AB	
M_SP49	36	49	FLD	10082002	10082002	4	Spec. Conductivity		538	umhos/cm	10/08/2002	0930	20	AB	
M_SP49	36	49	FLD	10082002	10082002	11	Flow		0.300	gpm	10/08/2002	0930	20	AB	
M_SP49	36	49	FLD	10082002	10082002	66	Turbidity		0.37	NTU	10/08/2002	0930	20	AB	
M_SP49	36	49	FLD	06042003	06042003	1	Water Temperature		6.3	Deg. C	06/04/2003	1938	20	MM	
M_SP49	36	49	FLD	06042003	06042003	2	pH		7.55	pH units	06/04/2003	1938	20	MM	
M_SP49	36	49	FLD	06042003	06042003	4	Spec. Conductivity		323	umhos/cm	06/04/2003	1938	20	MM	
M_SP49	36	49	FLD	06042003	06042003	11	Flow		0.313	gpm	06/04/2003	1938	20	MM	
M_SP49	36	49	FLD	06042003	06042003	66	Turbidity		0.54	NTU	06/04/2003	1938	20	MM	
M_SP49	36	49	FLD	09232003	09232003	1	Water Temperature		8.6	Deg. C	09/23/2003	1845	20	AB	
M_SP49	36	49	FLD	09232003	09232003	2	pH		7.55	pH units	09/23/2003	1845	20	AB	
M_SP49	36	49	FLD	09232003	09232003	4	Spec. Conductivity		325	umhos/cm	09/23/2003	1845	20	AB	
M_SP49	36	49	FLD	09232003	09232003	11	Flow		0.211	gpm	09/23/2003	1845	20	AB	
M_SP49	36	49	FLD	09232003	09232003	66	Turbidity		4.74	NTU	09/23/2003	1845	20	AB	
M_SP49	36	49	FLD	06162004	06162004	1	Water Temperature		7.4	Deg. C	06/16/2004	1813	20	AB	
M_SP49	36	49	FLD	06162004	06162004	2	pH		7.56	pH units	06/16/2004	1813	20	AB	
M_SP49	36	49	FLD	06162004	06162004	4	Spec. Conductivity		328	umhos/cm	06/16/2004	1813	20	AB	
M_SP49	36	49	FLD	06162004	06162004	11	Flow		0.380	gpm	06/16/2004	1813	20	AB	
M_SP49	36	49	FLD	06162004	06162004	66	Turbidity		6.73	NTU	06/16/2004	1813	20	AB	
M_SP50	36	50	FLD	10192001	10192001	1	Water Temperature		4.8	Deg. C	10/19/2001	1217	20	ED	
M_SP50	36	50	FLD	10192001	10192001	2	pH		7.39	pH units	10/19/2001	1217	20	ED	
M_SP50	36	50	FLD	10192001	10192001	4	Spec. Conductivity		286	umhos/cm	10/19/2001	1217	20	ED	
M_SP50	36	50	FLD	10192001	10192001	11	Flow		0.447	gpm	10/19/2001	1217	20	ED	
M_SP50	36	50	FLD	10192001	10192001	66	Turbidity		2.55	NTU	10/19/2001	1217	20	ED	
M_SP50	36	50	FLD	05222002	05222002	1	Water Temperature		4.1	Deg. C	05/22/2002	1646	20	ED	
M_SP50	36	50	FLD	05222002	05222002	2	pH		7.43	pH units	05/22/2002	1646	20	ED	
M_SP50	36	50	FLD	05222002	05222002	4	Spec. Conductivity		507	umhos/cm	05/22/2002	1646	20	ED	
M_SP50	36	50	FLD	05222002	05222002	11	Flow		0.180	gpm	05/22/2002	1646	20	ED	
M_SP50	36	50	FLD	05222002	05222002	66	Turbidity		22.36	NTU	05/22/2002	1646	20	ED	
M_SP50	36	50	FLD	10072002	10072002	1	Water Temperature		5.0	Deg. C	10/07/2002	1752	20	AB	
M_SP50	36	50	FLD	10072002	10072002	2	pH		7.59	pH units	10/07/2002	1752	20	AB	
M_SP50	36	50	FLD	10072002	10072002	4	Spec. Conductivity		527	umhos/cm	10/07/2002	1752	20	AB	
M_SP50	36	50	FLD	10072002	10072002	11	Flow		0.350	gpm	10/07/2002	1752	20	AB	
M_SP50	36	50	FLD	10072002	10072002	66	Turbidity		1.38	NTU	10/07/2002	1752	20	AB	
M_SP50	36	50	FLD	06022003	06022003	1	Water Temperature		10.1	Deg. C	06/02/2003	1750	20	ED, MM	
M_SP50	36	50	FLD	06022003	06022003	2	pH		7.71	pH units	06/02/2003	1750	20	ED, MM	
M_SP50	36	50	FLD	06022003	06022003	4	Spec. Conductivity		373	umhos/cm	06/02/2003	1750	20	ED, MM	
M_SP50	36	50	FLD	06022003	06022003	11	Flow		0.674	gpm	06/02/2003	1750	20	ED, MM	
M_SP50	36	50	FLD	06022003	06022003	66	Turbidity		1.28	NTU	06/02/2003	1750	20	ED, MM	
M_SP50	36	50	FLD	09242003	09242003	1	Water Temperature		5.1	Deg. C	09/24/2003	1825	20	AB	
M_SP50	36	50	FLD	09242003	09242003	2	pH		7.40	pH units	09/24/2003	1825	20	AB	
M_SP50	36	50	FLD	09242003	09242003	4	Spec. Conductivity		316	umhos/cm	09/24/2003	1825	20	AB	
M_SP50	36	50	FLD	09242003	09242003	11	Flow		0.251	gpm	09/24/2003	1825	20	AB	
M_SP50	36	50	FLD	09242003	09242003	66	Turbidity		0.73	NTU	09/24/2003	1825	20	AB	
M_SP50	36	50	FLD	06152004	06152004	1	Water Temperature		4.8	Deg. C	06/15/2004	1915	20	AB	
M_SP50	36	50	FLD	06152004	06152004	2	pH		7.39	pH units	06/15/2004	1915	20	AB	
M_SP50	36	50	FLD	06152004	06152004	4	Spec. Conductivity		400	umhos/cm	06/15/2004	1915	20	AB	
M_SP50	36	50	FLD	06152004	06152004	11	Flow		0.666	gpm	06/15/2004	1915	20	AB	
M_SP50	36	50	FLD	06152004	06152004	66	Turbidity		0.15	NTU	06/15/2004	1915	20	AB	
M_SP52	36	52	FLD	10192001	10192001	1	Water Temperature		7.2	Deg. C	10/19/2001	1532	20	ED	
M_SP52	36	52	FLD	10192001	10192001	2	pH		7.88	pH units	10/19/2001	1532	20	ED	
M_SP52	36	52	FLD	10192001	10192001	4	Spec. Conductivity		275	umhos/cm	10/19/2001	1532	20	ED	
M_SP52	36	52	FLD	10192001	10192001	11	Flow		2.396	gpm	10/19/2001	1532	20	ED	
M_SP52	36	52	FLD	10192001	10192001	66	Turbidity		1.61	NTU	10/19/2001	1532	20	ED	

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M_SP52	36	52	FLD	05222002	05222002	1	Water Temperature		6.5	Deg. C	05/22/2002	1840	20	SC	
M_SP52	36	52	FLD	05222002	05222002	2	pH		7.86	pH units	05/22/2002	1840	20	SC	
M_SP52	36	52	FLD	05222002	05222002	4	Spec. Conductivity		305	umhos/cm	05/22/2002	1840	20	SC	
M_SP52	36	52	FLD	05222002	05222002	11	Flow		0.554	gpm	05/22/2002	1840	20	SC	
M_SP52	36	52	FLD	05222002	05222002	66	Turbidity		6.68	NTU	05/22/2002	1840	20	SC	
M_SP52	36	52	FLD	10072002	10072002	1	Water Temperature		6.9	Deg. C	10/07/2002	1903	20	AB	
M_SP52	36	52	FLD	10072002	10072002	2	pH		7.71	pH units	10/07/2002	1903	20	AB	
M_SP52	36	52	FLD	10072002	10072002	4	Spec. Conductivity		503	umhos/cm	10/07/2002	1903	20	AB	
M_SP52	36	52	FLD	10072002	10072002	11	Flow		1.965	gpm	10/07/2002	1903	20	AB	
M_SP52	36	52	FLD	10072002	10072002	66	Turbidity		8.42	NTU	10/07/2002	1903	20	AB	
M_SP52	36	52	FLD	06042003	06042003	1	Water Temperature		6.7	Deg. C	06/04/2003	2154	20	MM	
M_SP52	36	52	FLD	06042003	06042003	2	pH		8.16	pH units	06/04/2003	2154	20	MM	
M_SP52	36	52	FLD	06042003	06042003	4	Spec. Conductivity		297	umhos/cm	06/04/2003	2154	20	MM	
M_SP52	36	52	FLD	06042003	06042003	11	Flow		2.142	gpm	06/04/2003	2154	20	MM	
M_SP52	36	52	FLD	06042003	06042003	66	Turbidity		0.34	NTU	06/04/2003	2154	20	MM	
M_SP52	36	52	FLD	09242003	09242003	1	Water Temperature		6.9	Deg. C	09/24/2003	1715	20	AB	
M_SP52	36	52	FLD	09242003	09242003	2	pH		7.59	pH units	09/24/2003	1715	20	AB	
M_SP52	36	52	FLD	09242003	09242003	4	Spec. Conductivity		295	umhos/cm	09/24/2003	1715	20	AB	
M_SP52	36	52	FLD	09242003	09242003	11	Flow		2.946	gpm	09/24/2003	1715	20	AB	
M_SP52	36	52	FLD	09242003	09242003	66	Turbidity		2.62	NTU	09/24/2003	1715	20	AB	
M_SP52	36	52	FLD	06152004	06152004	1	Water Temperature		6.5	Deg. C	06/15/2004	2013	20	AB	
M_SP52	36	52	FLD	06152004	06152004	2	pH		7.63	pH units	06/15/2004	2013	20	AB	
M_SP52	36	52	FLD	06152004	06152004	4	Spec. Conductivity		305	umhos/cm	06/15/2004	2013	20	AB	
M_SP52	36	52	FLD	06152004	06152004	11	Flow		4.041	gpm	06/15/2004	2013	20	AB	
M_SP52	36	52	FLD	06152004	06152004	66	Turbidity		0.00	NTU	06/15/2004	2013	20	AB	
M_SP53	36	53	FLD	10242001	10242001	1	Water Temperature		2.9	Deg. C	10/24/2001	1359	20	ED	
M_SP53	36	53	FLD	10242001	10242001	2	pH		7.82	pH units	10/24/2001	1359	20	ED	
M_SP53	36	53	FLD	10242001	10242001	4	Spec. Conductivity		368	umhos/cm	10/24/2001	1359	20	ED	
M_SP53	36	53	FLD	10242001	10242001	11	Flow		0.092	gpm	10/24/2001	1359	20	ED	
M_SP53	36	53	FLD	10242001	10242001	66	Turbidity		0.00	NTU	10/24/2001	1359	20	ED	
M_SP53	36	53	FLD	05022002	05022002	1	Water Temperature		4.5	Deg. C	05/02/2002	1800	20	SC	
M_SP53	36	53	FLD	05022002	05022002	2	pH		7.81	pH units	05/02/2002	1800	20	SC	
M_SP53	36	53	FLD	05022002	05022002	4	Spec. Conductivity		15	umhos/cm	05/02/2002	1800	20	SC	
M_SP53	36	53	FLD	05022002	05022002	11	Flow		0.109	gpm	05/02/2002	1800	20	SC	
M_SP53	36	53	FLD	05022002	05022002	66	Turbidity		0.17	NTU	05/02/2002	1800	20	SC	
M_SP53	36	53	FLD	09272002	09272002	1	Water Temperature		7.2	Deg. C	09/27/2002	1203	20	ED	
M_SP53	36	53	FLD	09272002	09272002	2	pH		7.61	pH units	09/27/2002	1203	20	ED	
M_SP53	36	53	FLD	09272002	09272002	4	Spec. Conductivity		402	umhos/cm	09/27/2002	1203	20	ED	
M_SP53	36	53	FLD	09272002	09272002	11	Flow		0.090	gpm	09/27/2002	1203	20	ED	
M_SP53	36	53	FLD	09272002	09272002	66	Turbidity		0.00	NTU	09/27/2002	1203	20	ED	
M_SP53	36	53	FLD	05212003	05212003	1	Water Temperature		6.7	Deg. C	05/21/2003	1430	20	ED	
M_SP53	36	53	FLD	05212003	05212003	2	pH		7.66	pH units	05/21/2003	1430	20	ED	
M_SP53	36	53	FLD	05212003	05212003	4	Spec. Conductivity		381	umhos/cm	05/21/2003	1430	20	ED	
M_SP53	36	53	FLD	05212003	05212003	11	Flow		0.101	gpm	05/21/2003	1430	20	ED	
M_SP53	36	53	FLD	05212003	05212003	66	Turbidity		0.75	NTU	05/21/2003	1430	20	ED	
M_SP53	36	53	FLD	09272003	09272003	1	Water Temperature		8.5	Deg. C	09/27/2003	1120	20	RG	
M_SP53	36	53	FLD	09272003	09272003	2	pH		7.68	pH units	09/27/2003	1120	20	RG	
M_SP53	36	53	FLD	09272003	09272003	4	Spec. Conductivity		694	umhos/cm	09/27/2003	1120	20	RG	
M_SP53	36	53	FLD	09272003	09272003	11	Flow		0.480	gpm	09/27/2003	1120	20	RG	
M_SP53	36	53	FLD	09272003	09272003	66	Turbidity		0.84	NTU	09/27/2003	1120	20	RG	
M_SP53	36	53	FLD	06062004	06062004	1	Water Temperature		6.9	Deg. C	06/06/2004	0855	20	ED	
M_SP53	36	53	FLD	06062004	06062004	2	pH		7.77	pH units	06/06/2004	0855	20	ED	
M_SP53	36	53	FLD	06062004	06062004	4	Spec. Conductivity		417	umhos/cm	06/06/2004	0855	20	ED	
M_SP53	36	53	FLD	06062004	06062004	11	Flow		0.087	gpm	06/06/2004	0855	20	ED	
M_SP53	36	53	FLD	06062004	06062004	66	Turbidity		0.00	NTU	06/06/2004	0855	20	ED	
M_SP54	36	54	FLD	10252001	10252001	1	Water Temperature		6.7	Deg. C	10/25/2001	1308	20	ED	
M_SP54	36	54	FLD	10252001	10252001	2	pH		8.11	pH units	10/25/2001	1308	20	ED	
M_SP54	36	54	FLD	10252001	10252001	4	Spec. Conductivity		463	umhos/cm	10/25/2001	1308	20	ED	
M_SP54	36	54	FLD	10252001	10252001	11	Flow		1.131	gpm	10/25/2001	1308	20	ED	
M_SP54	36	54	FLD	10252001	10252001	66	Turbidity		0.52	NTU	10/25/2001	1308	20	ED	
M_SP54	36	54	FLD	05232002	05232002	1	Water Temperature		4.7	Deg. C	05/23/2002	1150	20	SC	
M_SP54	36	54	FLD	05232002	05232002	2	pH		8.27	pH units	05/23/2002	1150	20	SC	
M_SP54	36	54	FLD	05232002	05232002	4	Spec. Conductivity		481	umhos/cm	05/23/2002	1150	20	SC	
M_SP54	36	54	FLD	05232002	05232002	11	Flow		1.014	gpm	05/23/2002	1150	20	SC	
M_SP54	36	54	FLD	05232002	05232002	66	Turbidity		5.50	NTU	05/23/2002	1150	20	SC	
M_SP54	36	54	FLD	10072002	10072002	1	Water Temperature		6.3	Deg. C	10/07/2002	1418	20	AB	
M_SP54	36	54	FLD	10072002	10072002	2	pH		7.89	pH units	10/07/2002	1418	20	AB	
M_SP54	36	54	FLD	10072002	10072002	4	Spec. Conductivity		869	umhos/cm	10/07/2002	1418	20	AB	
M_SP54	36	54	FLD	10072002	10072002	11	Flow		1.092	gpm	10/07/2002	1418	20	AB	
M_SP54	36	54	FLD	10072002	10072002	66	Turbidity		0.31	NTU	10/07/2002	1418	20	AB	
M_SP54	36	54	FLD	06042003	06042003	1	Water Temperature		4.2	Deg. C	06/04/2003	1554	20	MM	
M_SP54	36	54	FLD	06042003	06042003	2	pH		7.92	pH units	06/04/2003	1554	20	MM	
M_SP54	36	54	FLD	06042003	06042003	4	Spec. Conductivity		488	umhos/cm	06/04/2003	1554	20	MM	
M_SP54	36	54	FLD	06042003	06042003	11	Flow		1.282	gpm	06/04/2003	1554	20	MM	
M_SP54	36	54	FLD	06042003	06042003	66	Turbidity		0.01	NTU	06/04/2003	1554	20	MM	
M_SP54	36	54	FLD	09232003	09232003	1	Water Temperature		6.2	Deg. C	09/23/2003	1545	20	AB	
M_SP54	36	54	FLD	09232003	09232003	2	pH		7.93	pH units	09/23/2003	1545	20	AB	

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Spring/Stre	DOG	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's	Comments
M_SP54	36	54	FLD	09232003	09232003	4	Spec. Conductivity		504	umhos/cm	09/23/2003	1545	20	AB	
M_SP54	36	54	FLD	09232003	09232003	11	Flow		1.051	gpm	09/23/2003	1545	20	AB	
M_SP54	36	54	FLD	09232003	09232003	66	Turbidity		0.00	NTU	09/23/2003	1545	20	AB	
M_SP54	36	54	FLD	06162004	06162004	1	Water Temperature		4.9	Deg. C	06/16/2004	1544	20	AB	
M_SP54	36	54	FLD	06162004	06162004	2	pH		7.87	pH units	06/16/2004	1544	20	AB	
M_SP54	36	54	FLD	06162004	06162004	4	Spec. Conductivity		517	umhos/cm	06/16/2004	1544	20	AB	
M_SP54	36	54	FLD	06162004	06162004	11	Flow		1.371	gpm	06/16/2004	1544	20	AB	
M_SP54	36	54	FLD	06162004	06162004	66	Turbidity		1.06	NTU	06/16/2004	1544	20	AB	
M_SP55	36	55	FLD	10252001	10252001	1	Water Temperature		2.9	Deg. C	10/25/2001	1403	20	ED	
M_SP55	36	55	FLD	10252001	10252001	2	pH		8.20	pH units	10/25/2001	1403	20	ED	
M_SP55	36	55	FLD	10252001	10252001	4	Spec. Conductivity		519	umhos/cm	10/25/2001	1403	20	ED	
M_SP55	36	55	FLD	10252001	10252001	11	Flow		0.722	gpm	10/25/2001	1403	20	ED	
M_SP55	36	55	FLD	10252001	10252001	66	Turbidity		0.00	NTU	10/25/2001	1403	20	ED	
M_SP55	36	55	FLD	05222002	05222002	1	Water Temperature		3.8	Deg. C	05/22/2002	1015	20	SC	
M_SP55	36	55	FLD	05222002	05222002	2	pH		8.57	pH units	05/22/2002	1015	20	SC	
M_SP55	36	55	FLD	05222002	05222002	4	Spec. Conductivity		607	umhos/cm	05/22/2002	1015	20	SC	
M_SP55	36	55	FLD	05222002	05222002	11	Flow		0.879	gpm	05/22/2002	1015	20	SC	
M_SP55	36	55	FLD	05222002	05222002	66	Turbidity		14.10	NTU	05/22/2002	1015	20	SC	
M_SP55	36	55	FLD	10072002	10072002	1	Water Temperature		5.1	Deg. C	10/07/2002	1321	20	AB	
M_SP55	36	55	FLD	10072002	10072002	2	pH		7.55	pH units	10/07/2002	1321	20	AB	
M_SP55	36	55	FLD	10072002	10072002	4	Spec. Conductivity		955	umhos/cm	10/07/2002	1321	20	AB	
M_SP55	36	55	FLD	10072002	10072002	11	Flow		0.627	gpm	10/07/2002	1321	20	AB	
M_SP55	36	55	FLD	10072002	10072002	66	Turbidity		0.55	NTU	10/07/2002	1321	20	AB	
M_SP55	36	55	FLD	06042003	06042003	1	Water Temperature		4.5	Deg. C	06/04/2003	1502	20	MM	
M_SP55	36	55	FLD	06042003	06042003	2	pH		7.43	pH units	06/04/2003	1502	20	MM	
M_SP55	36	55	FLD	06042003	06042003	4	Spec. Conductivity		572	umhos/cm	06/04/2003	1502	20	MM	
M_SP55	36	55	FLD	06042003	06042003	11	Flow		0.853	gpm	06/04/2003	1502	20	MM	
M_SP55	36	55	FLD	06042003	06042003	66	Turbidity		0.14	NTU	06/04/2003	1502	20	MM	
M_SP55	36	55	FLD	09232003	09232003	1	Water Temperature		5.2	Deg. C	09/23/2003	1450	20	AB	
M_SP55	36	55	FLD	09232003	09232003	2	pH		7.51	pH units	09/23/2003	1450	20	AB	
M_SP55	36	55	FLD	09232003	09232003	4	Spec. Conductivity		575	umhos/cm	09/23/2003	1450	20	AB	
M_SP55	36	55	FLD	09232003	09232003	11	Flow		0.787	gpm	09/23/2003	1450	20	AB	
M_SP55	36	55	FLD	09232003	09232003	66	Turbidity		0.22	NTU	09/23/2003	1450	20	AB	
M_SP55	36	55	FLD	06162004	06162004	1	Water Temperature		4.4	Deg. C	06/16/2004	1500	20	AB	
M_SP55	36	55	FLD	06162004	06162004	2	pH		7.51	pH units	06/16/2004	1500	20	AB	
M_SP55	36	55	FLD	06162004	06162004	4	Spec. Conductivity		598	umhos/cm	06/16/2004	1500	20	AB	
M_SP55	36	55	FLD	06162004	06162004	11	Flow		0.898	gpm	06/16/2004	1500	20	AB	
M_SP55	36	55	FLD	06162004	06162004	66	Turbidity		0.46	NTU	06/16/2004	1500	20	AB	
M_SP56	36	56	FLD	10252001	10252001	1	Water Temperature		3.7	Deg. C	10/25/2001	1434	20	ED	
M_SP56	36	56	FLD	10252001	10252001	2	pH		8.52	pH units	10/25/2001	1434	20	ED	
M_SP56	36	56	FLD	10252001	10252001	4	Spec. Conductivity		598	umhos/cm	10/25/2001	1434	20	ED	
M_SP56	36	56	FLD	10252001	10252001	11	Flow		3.599	gpm	10/25/2001	1434	20	ED	
M_SP56	36	56	FLD	10252001	10252001	66	Turbidity		0.09	NTU	10/25/2001	1434	20	ED	
M_SP56	36	56	FLD	05222002	05222002	1	Water Temperature		7.7	Deg. C	05/22/2002	1120	20	SC	
M_SP56	36	56	FLD	05222002	05222002	2	pH		8.66	pH units	05/22/2002	1120	20	SC	
M_SP56	36	56	FLD	05222002	05222002	4	Spec. Conductivity		718	umhos/cm	05/22/2002	1120	20	SC	
M_SP56	36	56	FLD	05222002	05222002	11	Flow		3.910	gpm	05/22/2002	1120	20	SC	
M_SP56	36	56	FLD	05222002	05222002	66	Turbidity		18.60	NTU	05/22/2002	1120	20	SC	
M_SP56	36	56	FLD	10072002	10072002	1	Water Temperature		5.5	Deg. C	10/07/2002	1153	20	AB	
M_SP56	36	56	FLD	10072002	10072002	2	pH		7.84	pH units	10/07/2002	1153	20	AB	
M_SP56	36	56	FLD	10072002	10072002	4	Spec. Conductivity		1147	umhos/cm	10/07/2002	1153	20	AB	
M_SP56	36	56	FLD	10072002	10072002	11	Flow		3.305	gpm	10/07/2002	1153	20	AB	
M_SP56	36	56	FLD	10072002	10072002	66	Turbidity		0.00	NTU	10/07/2002	1153	20	AB	
M_SP56	36	56	FLD	06042003	06042003	1	Water Temperature		5.0	Deg. C	06/04/2003	1324	20	MM	
M_SP56	36	56	FLD	06042003	06042003	2	pH		7.87	pH units	06/04/2003	1324	20	MM	
M_SP56	36	56	FLD	06042003	06042003	4	Spec. Conductivity		650	umhos/cm	06/04/2003	1324	20	MM	
M_SP56	36	56	FLD	06042003	06042003	11	Flow		1.590	gpm	06/04/2003	1324	20	MM	
M_SP56	36	56	FLD	06042003	06042003	66	Turbidity		0.00	NTU	06/04/2003	1324	20	MM	
M_SP56	36	56	FLD	09232003	09232003	1	Water Temperature		5.6	Deg. C	09/23/2003	1345	20	AB	
M_SP56	36	56	FLD	09232003	09232003	2	pH		7.97	pH units	09/23/2003	1345	20	AB	
M_SP56	36	56	FLD	09232003	09232003	4	Spec. Conductivity		662	umhos/cm	09/23/2003	1345	20	AB	
M_SP56	36	56	FLD	09232003	09232003	11	Flow		2.679	gpm	09/23/2003	1345	20	AB	
M_SP56	36	56	FLD	09232003	09232003	66	Turbidity		0.00	NTU	09/23/2003	1345	20	AB	
M_SP56	36	56	FLD	06162004	06162004	1	Water Temperature		5.1	Deg. C	06/16/2004	1328	20	AB	
M_SP56	36	56	FLD	06162004	06162004	2	pH		8.01	pH units	06/16/2004	1328	20	AB	
M_SP56	36	56	FLD	06162004	06162004	4	Spec. Conductivity		682	umhos/cm	06/16/2004	1328	20	AB	
M_SP56	36	56	FLD	06162004	06162004	11	Flow		3.196	gpm	06/16/2004	1328	20	AB	
M_SP56	36	56	FLD	06162004	06162004	66	Turbidity		0.00	NTU	06/16/2004	1328	20	AB	
M_SP57	36	57	FLD	10252001	10252001	1	Water Temperature		5.7	Deg. C	10/25/2001	1522	20	ED	
M_SP57	36	57	FLD	10252001	10252001	2	pH		8.22	pH units	10/25/2001	1522	20	ED	
M_SP57	36	57	FLD	10252001	10252001	4	Spec. Conductivity		790	umhos/cm	10/25/2001	1522	20	ED	
M_SP57	36	57	FLD	10252001	10252001	11	Flow		0.726	gpm	10/25/2001	1522	20	ED	
M_SP57	36	57	FLD	10252001	10252001	66	Turbidity		4.27	NTU	10/25/2001	1522	20	ED	
M_SP57	36	57	FLD	05222002	05222002	1	Water Temperature		6.6	Deg. C	05/22/2002	1200	20	SC	
M_SP57	36	57	FLD	05222002	05222002	2	pH		8.42	pH units	05/22/2002	1200	20	SC	
M_SP57	36	57	FLD	05222002	05222002	4	Spec. Conductivity		889	umhos/cm	05/22/2002	1200	20	SC	
M_SP57	36	57	FLD	05222002	05222002	11	Flow		1.296	gpm	05/22/2002	1200	20	SC	

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Spring/Stre	DO	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's	Comments
M_SP57	36	57	FLD	05222002	05222002	66	Turbidity		11.70	NTU	05/22/2002	1200	20	SC	
M_SP57	36	57	FLD	09262002	09262002	1	Water Temperature		7.2	Deg. C	09/26/2002	1603	20	ED	
M_SP57	36	57	FLD	09262002	09262002	2	pH		8.24	pH units	09/26/2002	1603	20	ED	
M_SP57	36	57	FLD	09262002	09262002	4	Spec. Conductivity		850	umhos/cm	09/26/2002	1603	20	ED	
M_SP57	36	57	FLD	09262002	09262002	11	Flow		0.487	gpm	09/26/2002	1603	20	ED	
M_SP57	36	57	FLD	09262002	09262002	66	Turbidity		3.60	NTU	09/26/2002	1603	20	ED	
M_SP57	36	57	FLD	06042003	06042003	1	Water Temperature		5.7	Deg. C	06/04/2003	1213	20	MM	
M_SP57	36	57	FLD	06042003	06042003	2	pH		7.98	pH units	06/04/2003	1213	20	MM	
M_SP57	36	57	FLD	06042003	06042003	4	Spec. Conductivity		825	umhos/cm	06/04/2003	1213	20	MM	
M_SP57	36	57	FLD	06042003	06042003	11	Flow		1.768	gpm	06/04/2003	1213	20	MM	
M_SP57	36	57	FLD	06042003	06042003	66	Turbidity		0.18	NTU	06/04/2003	1213	20	MM	
M_SP57	36	57	FLD	09232003	09232003	1	Water Temperature		7.1	Deg. C	09/23/2003	1105	20	AB	
M_SP57	36	57	FLD	09232003	09232003	2	pH		8.10	pH units	09/23/2003	1105	20	AB	
M_SP57	36	57	FLD	09232003	09232003	4	Spec. Conductivity		833	umhos/cm	09/23/2003	1105	20	AB	
M_SP57	36	57	FLD	09232003	09232003	11	Flow		0.592	gpm	09/23/2003	1105	20	AB	
M_SP57	36	57	FLD	09232003	09232003	66	Turbidity		2.38	NTU	09/23/2003	1105	20	AB	
M_SP57	36	57	FLD	06162004	06162004	1	Water Temperature		5.8	Deg. C	06/16/2004	1135	20	AB	
M_SP57	36	57	FLD	06162004	06162004	2	pH		7.90	pH units	06/16/2004	1135	20	AB	
M_SP57	36	57	FLD	06162004	06162004	4	Spec. Conductivity		862	umhos/cm	06/16/2004	1135	20	AB	
M_SP57	36	57	FLD	06162004	06162004	11	Flow		1.631	gpm	06/16/2004	1135	20	AB	
M_SP57	36	57	FLD	06162004	06162004	66	Turbidity		0.38	NTU	06/16/2004	1135	20	AB	
M_SP59	36	59	FLD	10242001	10242001	1	Water Temperature		3.4	Deg. C	10/24/2001	1314	20	ED	
M_SP59	36	59	FLD	10242001	10242001	2	pH		7.58	pH units	10/24/2001	1314	20	ED	
M_SP59	36	59	FLD	10242001	10242001	4	Spec. Conductivity		446	umhos/cm	10/24/2001	1314	20	ED	
M_SP59	36	59	FLD	10242001	10242001	11	Flow		0.372	gpm	10/24/2001	1314	20	ED	
M_SP59	36	59	FLD	10242001	10242001	66	Turbidity		1.13	NTU	10/24/2001	1314	20	ED	
M_SP59	36	59	NOF	05022002	05022002						05/02/2002	1830	10	SC	
M_SP59	36	59	FLD	09272002	09272002	1	Water Temperature		6.4	Deg. C	09/27/2002	1234	20	ED	
M_SP59	36	59	FLD	09272002	09272002	2	pH		7.60	pH units	09/27/2002	1234	20	ED	
M_SP59	36	59	FLD	09272002	09272002	4	Spec. Conductivity		451	umhos/cm	09/27/2002	1234	20	ED	
M_SP59	36	59	FLD	09272002	09272002	11	Flow		0.117	gpm	09/27/2002	1234	20	ED	
M_SP59	36	59	FLD	09272002	09272002	66	Turbidity		1.10	NTU	09/27/2002	1234	20	ED	
M_SP59	36	59	FLD	05212003	05212003	1	Water Temperature		8.5	Deg. C	05/21/2003	1506	20	ED	
M_SP59	36	59	FLD	05212003	05212003	2	pH		8.04	pH units	05/21/2003	1506	20	ED	
M_SP59	36	59	FLD	05212003	05212003	4	Spec. Conductivity		478	umhos/cm	05/21/2003	1506	20	ED	
M_SP59	36	59	FLD	05212003	05212003	11	Flow		0.216	gpm	05/21/2003	1506	20	ED	
M_SP59	36	59	FLD	05212003	05212003	66	Turbidity		1.53	NTU	05/21/2003	1506	20	ED	
M_SP59	36	59	FLD	09272003	09272003	1	Water Temperature		7.1	Deg. C	09/27/2003	1201	20	RG	
M_SP59	36	59	FLD	09272003	09272003	2	pH		7.92	pH units	09/27/2003	1201	20	RG	
M_SP59	36	59	FLD	09272003	09272003	4	Spec. Conductivity		859	umhos/cm	09/27/2003	1201	20	RG	
M_SP59	36	59	FLD	09272003	09272003	11	Flow		0.690	gpm	09/27/2003	1201	20	RG	
M_SP59	36	59	FLD	09272003	09272003	66	Turbidity		13.90	NTU	09/27/2003	1201	20	RG	
M_SP59	36	59	FLD	06062004	06062004	1	Water Temperature		7.4	Deg. C	06/06/2004	0921	20	ED	
M_SP59	36	59	FLD	06062004	06062004	2	pH		8.08	pH units	06/06/2004	0921	20	ED	
M_SP59	36	59	FLD	06062004	06062004	4	Spec. Conductivity		509	umhos/cm	06/06/2004	0921	20	ED	
M_SP59	36	59	FLD	06062004	06062004	11	Flow		0.173	gpm	06/06/2004	0921	20	ED	
M_SP59	36	59	FLD	06062004	06062004	66	Turbidity		0.67	NTU	06/06/2004	0921	20	ED	
M_SP60	36	60	FLD	05022002	05022002	1	Water Temperature		5.7	Deg. C	05/02/2002	1415	20	ED	
M_SP60	36	60	FLD	05022002	05022002	2	pH		7.64	pH units	05/02/2002	1415	20	ED	
M_SP60	36	60	FLD	05022002	05022002	4	Spec. Conductivity		403	umhos/cm	05/02/2002	1415	20	ED	
M_SP60	36	60	FLD	05022002	05022002	11	Flow		0.888	gpm	05/02/2002	1415	20	ED	
M_SP60	36	60	FLD	05022002	05022002	66	Turbidity		5.70	NTU	05/02/2002	1415	20	ED	
M_SP60	36	60	FLD	09272002	09272002	1	Water Temperature		8.0	Deg. C	09/27/2002	1748	20	ED	
M_SP60	36	60	FLD	09272002	09272002	2	pH		7.52	pH units	09/27/2002	1748	20	ED	
M_SP60	36	60	FLD	09272002	09272002	4	Spec. Conductivity		512	umhos/cm	09/27/2002	1748	20	ED	
M_SP60	36	60	FLD	09272002	09272002	11	Flow		0.728	gpm	09/27/2002	1748	20	ED	
M_SP60	36	60	FLD	09272002	09272002	66	Turbidity		0.10	NTU	09/27/2002	1748	20	ED	
M_SP60	36	60	FLD	05212003	05212003	1	Water Temperature		6.5	Deg. C	05/21/2003	1852	20	ED, MM	
M_SP60	36	60	FLD	05212003	05212003	2	pH		7.63	pH units	05/21/2003	1852	20	ED, MM	
M_SP60	36	60	FLD	05212003	05212003	4	Spec. Conductivity		491	umhos/cm	05/21/2003	1852	20	ED, MM	
M_SP60	36	60	FLD	05212003	05212003	11	Flow		0.761	gpm	05/21/2003	1852	20	ED, MM	
M_SP60	36	60	FLD	05212003	05212003	66	Turbidity		14.25	NTU	05/21/2003	1852	20	ED, MM	
M_SP60	36	60	FLD	10082003	10082003	1	Water Temperature		7.8	Deg. C	10/08/2003	1300	20	RG	
M_SP60	36	60	FLD	10082003	10082003	2	pH		7.63	pH units	10/08/2003	1300	20	RG	
M_SP60	36	60	FLD	10082003	10082003	4	Spec. Conductivity		428	umhos/cm	10/08/2003	1300	20	RG	
M_SP60	36	60	FLD	10082003	10082003	11	Flow		0.600	gpm	10/08/2003	1300	20	RG	
M_SP60	36	60	FLD	10082003	10082003	66	Turbidity		0.81	NTU	10/08/2003	1300	20	RG	
M_SP60	36	60	FLD	06052004	06052004	1	Water Temperature		9.6	Deg. C	06/05/2004	1454	20	ED	
M_SP60	36	60	FLD	06052004	06052004	2	pH		7.79	pH units	06/05/2004	1454	20	ED	
M_SP60	36	60	FLD	06052004	06052004	4	Spec. Conductivity		943	umhos/cm	06/05/2004	1454	20	ED	
M_SP60	36	60	FLD	06052004	06052004	11	Flow		0.676	gpm	06/05/2004	1454	20	ED	
M_SP60	36	60	FLD	06052004	06052004	66	Turbidity		0.76	NTU	06/05/2004	1454	20	ED	
M_SP61	36	61	FLD	05022002	05022002	1	Water Temperature		5.3	Deg. C	05/02/2002	1749	20	ED	
M_SP61	36	61	FLD	05022002	05022002	2	pH		7.35	pH units	05/02/2002	1749	20	ED	
M_SP61	36	61	FLD	05022002	05022002	4	Spec. Conductivity		273	umhos/cm	05/02/2002	1749	20	ED	
M_SP61	36	61	FLD	05022002	05022002	11	Flow		0.345	gpm	05/02/2002	1749	20	ED	
M_SP61	36	61	FLD	05022002	05022002	66	Turbidity		0.00	NTU	05/02/2002	1749	20	ED	

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M_SP61	36	61	FLD	09282002	09282002	1	Water Temperature		10.3	Deg. C	09/28/2002	1054	20	ED	
M_SP61	36	61	FLD	09282002	09282002	2	pH		7.77	pH units	09/28/2002	1054	20	ED	
M_SP61	36	61	FLD	09282002	09282002	4	Spec. Conductivity		343	umhos/cm	09/28/2002	1054	20	ED	
M_SP61	36	61	FLD	09282002	09282002	11	Flow		0.249	gpm	09/28/2002	1054	20	ED	
M_SP61	36	61	FLD	09282002	09282002	66	Turbidity		0.00	NTU	09/28/2002	1054	20	ED	
M_SP61	36	61	FLD	05222003	05222003	1	Water Temperature		9.5	Deg. C	05/22/2003	1453	20	ED, MM	
M_SP61	36	61	FLD	05222003	05222003	2	pH		8.72	pH units	05/22/2003	1453	20	ED, MM	
M_SP61	36	61	FLD	05222003	05222003	4	Spec. Conductivity		335	umhos/cm	05/22/2003	1453	20	ED, MM	
M_SP61	36	61	FLD	05222003	05222003	11	Flow		0.365	gpm	05/22/2003	1453	20	ED, MM	
M_SP61	36	61	FLD	05222003	05222003	66	Turbidity		20.43	NTU	05/22/2003	1453	20	ED, MM	
M_SP61	36	61	FLD	10072003	10072003	1	Water Temperature		7.9	Deg. C	10/07/2003	1835	20	RG	
M_SP61	36	61	FLD	10072003	10072003	2	pH		7.69	pH units	10/07/2003	1835	20	RG	
M_SP61	36	61	FLD	10072003	10072003	4	Spec. Conductivity		36	umhos/cm	10/07/2003	1835	20	RG	
M_SP61	36	61	FLD	10072003	10072003	11	Flow		0.314	gpm	10/07/2003	1835	20	RG	
M_SP61	36	61	FLD	10072003	10072003	66	Turbidity		4.59	NTU	10/07/2003	1835	20	RG	
M_SP61	36	61	FLD	06052004	06052004	1	Water Temperature		6.7	Deg. C	06/05/2004	2000	20	ED	
M_SP61	36	61	FLD	06052004	06052004	2	pH		7.90	pH units	06/05/2004	2000	20	ED	
M_SP61	36	61	FLD	06052004	06052004	4	Spec. Conductivity		593	umhos/cm	06/05/2004	2000	20	ED	
M_SP61	36	61	FLD	06052004	06052004	11	Flow		0.328	gpm	06/05/2004	2000	20	ED	
M_SP61	36	61	FLD	06052004	06052004	66	Turbidity		0.73	NTU	06/05/2004	2000	20	ED	
M_SP62	36	62	FLD	05232002	05232002	1	Water Temperature		4.6	Deg. C	05/23/2002	1000	20	SC	
M_SP62	36	62	FLD	05232002	05232002	2	pH		8.01	pH units	05/23/2002	1000	20	SC	
M_SP62	36	62	FLD	05232002	05232002	4	Spec. Conductivity		298	umhos/cm	05/23/2002	1000	20	SC	
M_SP62	36	62	FLD	05232002	05232002	11	Flow		0.860	gpm	05/23/2002	1000	20	SC	
M_SP62	36	62	FLD	05232002	05232002	66	Turbidity		1.23	NTU	05/23/2002	1000	20	SC	
M_SP62	36	62	NOF	09282002	09282002						09/28/2002	1925	10	AB	
M_SP62	36	62	FLD	06022003	06022003	1	Water Temperature		5.6	Deg. C	06/02/2003	2031	20	ED, MM	
M_SP62	36	62	FLD	06022003	06022003	2	pH		7.60	pH units	06/02/2003	2031	20	ED, MM	
M_SP62	36	62	FLD	06022003	06022003	4	Spec. Conductivity		256	umhos/cm	06/02/2003	2031	20	ED, MM	
M_SP62	36	62	FLD	06022003	06022003	11	Flow		22.239	gpm	06/02/2003	2031	20	ED, MM	
M_SP62	36	62	FLD	06022003	06022003	66	Turbidity		0.77	NTU	06/02/2003	2031	20	ED, MM	
M_SP62	36	62	FLD	09222003	09222003	1	Water Temperature		8.0	Deg. C	09/22/2003	1955	20	AB	
M_SP62	36	62	FLD	09222003	09222003	2	pH		7.62	pH units	09/22/2003	1955	20	AB	
M_SP62	36	62	FLD	09222003	09222003	4	Spec. Conductivity		228	umhos/cm	09/22/2003	1955	20	AB	
M_SP62	36	62	FLD	09222003	09222003	11	Flow		0.773	gpm	09/22/2003	1955	20	AB	
M_SP62	36	62	FLD	09222003	09222003	66	Turbidity			NTU	09/22/2003	1955	20	AB	
M_SP62	36	62	FLD	06152004	06152004	1	Water Temperature		5.8	Deg. C	06/15/2004	1605	20	AB	
M_SP62	36	62	FLD	06152004	06152004	2	pH		7.33	pH units	06/15/2004	1605	20	AB	
M_SP62	36	62	FLD	06152004	06152004	4	Spec. Conductivity		309	umhos/cm	06/15/2004	1605	20	AB	
M_SP62	36	62	FLD	06152004	06152004	11	Flow		0.818	gpm	06/15/2004	1605	20	AB	
M_SP62	36	62	FLD	06152004	06152004	66	Turbidity		0.68	NTU	06/15/2004	1605	20	AB	
M_SP63	36	63	FLD	05232002	05232002	1	Water Temperature		6.8	Deg. C	05/23/2002	1403	20	SC	
M_SP63	36	63	FLD	05232002	05232002	2	pH		7.99	pH units	05/23/2002	1403	20	SC	
M_SP63	36	63	FLD	05232002	05232002	4	Spec. Conductivity		282	umhos/cm	05/23/2002	1403	20	SC	
M_SP63	36	63	FLD	05232002	05232002	11	Flow		0.779	gpm	05/23/2002	1403	20	SC	
M_SP63	36	63	FLD	05232002	05232002	66	Turbidity		0.69	NTU	05/23/2002	1403	20	SC	
M_SP63	36	63	FLD	09282002	09282002	1	Water Temperature		6.4	Deg. C	09/28/2002	1632	20	AB	
M_SP63	36	63	FLD	09282002	09282002	2	pH		7.24	pH units	09/28/2002	1632	20	AB	
M_SP63	36	63	FLD	09282002	09282002	4	Spec. Conductivity		515	umhos/cm	09/28/2002	1632	20	AB	
M_SP63	36	63	FLD	09282002	09282002	11	Flow		0.430	gpm	09/28/2002	1632	20	AB	
M_SP63	36	63	FLD	09282002	09282002	66	Turbidity		1.10	NTU	09/28/2002	1632	20	AB	
M_SP63	36	63	FLD	06052003	06052003	1	Water Temperature		7.1	Deg. C	06/05/2003	1103	20	ED	
M_SP63	36	63	FLD	06052003	06052003	2	pH		7.82	pH units	06/05/2003	1103	20	ED	
M_SP63	36	63	FLD	06052003	06052003	4	Spec. Conductivity		512	umhos/cm	06/05/2003	1103	20	ED	
M_SP63	36	63	FLD	06052003	06052003	11	Flow		1.746	gpm	06/05/2003	1103	20	ED	
M_SP63	36	63	FLD	06052003	06052003	66	Turbidity		9.81	NTU	06/05/2003	1103	20	ED	
M_SP63	36	63	FLD	09242003	09242003	1	Water Temperature		6.2	Deg. C	09/24/2003	1550	20	AB	
M_SP63	36	63	FLD	09242003	09242003	2	pH		7.54	pH units	09/24/2003	1550	20	AB	
M_SP63	36	63	FLD	09242003	09242003	4	Spec. Conductivity		290	umhos/cm	09/24/2003	1550	20	AB	
M_SP63	36	63	FLD	09242003	09242003	11	Flow		0.949	gpm	09/24/2003	1550	20	AB	
M_SP63	36	63	FLD	09242003	09242003	66	Turbidity		0.15	NTU	09/24/2003	1550	20	AB	
M_SP63	36	63	FLD	06152004	06152004	1	Water Temperature		6.0	Deg. C	06/15/2004	1448	20	AB	
M_SP63	36	63	FLD	06152004	06152004	2	pH		7.66	pH units	06/15/2004	1448	20	AB	
M_SP63	36	63	FLD	06152004	06152004	4	Spec. Conductivity		304	umhos/cm	06/15/2004	1448	20	AB	
M_SP63	36	63	FLD	06152004	06152004	11	Flow		2.032	gpm	06/15/2004	1448	20	AB	
M_SP63	36	63	FLD	06152004	06152004	66	Turbidity		0.26	NTU	06/15/2004	1448	20	AB	
M_SP64	36	64	FLD	05232002	05232002	1	Water Temperature		6.6	Deg. C	05/23/2002	1505	20	SC	
M_SP64	36	64	FLD	05232002	05232002	2	pH		7.59	pH units	05/23/2002	1505	20	SC	
M_SP64	36	64	FLD	05232002	05232002	4	Spec. Conductivity		268	umhos/cm	05/23/2002	1505	20	SC	
M_SP64	36	64	FLD	05232002	05232002	11	Flow		12.903	gpm	05/23/2002	1505	20	SC	
M_SP64	36	64	FLD	05232002	05232002	66	Turbidity		0.00	NTU	05/23/2002	1505	20	SC	
M_SP64	36	64	FLD	09282002	09282002	1	Water Temperature		6.2	Deg. C	09/28/2002	1739	20	AB	
M_SP64	36	64	FLD	09282002	09282002	2	pH		7.05	pH units	09/28/2002	1739	20	AB	
M_SP64	36	64	FLD	09282002	09282002	4	Spec. Conductivity		482	umhos/cm	09/28/2002	1739	20	AB	
M_SP64	36	64	FLD	09282002	09282002	11	Flow		3.569	gpm	09/28/2002	1739	20	AB	
M_SP64	36	64	FLD	09282002	09282002	66	Turbidity		0.00	NTU	09/28/2002	1739	20	AB	
M_SP64	36	64	FLD	06052003	06052003	1	Water Temperature		6.0	Deg. C	06/05/2003	1210	20	ED	

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M_SP64	36	64	FLD	06052003	06052003	2	pH		7.54	pH units	06/05/2003	1210	20	ED	
M_SP64	36	64	FLD	06052003	06052003	4	Spec. Conductivity		491	umhos/cm	06/05/2003	1210	20	ED	
M_SP64	36	64	FLD	06052003	06052003	11	Flow		34.650	gpm	06/05/2003	1210	20	ED	
M_SP64	36	64	FLD	06052003	06052003	66	Turbidity		13.86	NTU	06/05/2003	1210	20	ED	
M_SP64	36	64	FLD	09242003	09242003	1	Water Temperature		6.0	Deg. C	09/24/2003	0955	20	AB	
M_SP64	36	64	FLD	09242003	09242003	2	pH		7.56	pH units	09/24/2003	0955	20	AB	
M_SP64	36	64	FLD	09242003	09242003	4	Spec. Conductivity		275	umhos/cm	09/24/2003	0955	20	AB	
M_SP64	36	64	FLD	09242003	09242003	11	Flow		14.556	gpm	09/24/2003	0955	20	AB	
M_SP64	36	64	FLD	09242003	09242003	66	Turbidity		0.00	NTU	09/24/2003	0955	20	AB	
M_SP64	36	64	FLD	06152004	06152004	1	Water Temperature		5.8	Deg. C	06/15/2004	1049	20	AB	
M_SP64	36	64	FLD	06152004	06152004	2	pH		7.72	pH units	06/15/2004	1049	20	AB	
M_SP64	36	64	FLD	06152004	06152004	4	Spec. Conductivity		286	umhos/cm	06/15/2004	1049	20	AB	
M_SP64	36	64	FLD	06152004	06152004	11	Flow		47.619	gpm	06/15/2004	1049	20	AB	
M_SP64	36	64	FLD	06152004	06152004	66	Turbidity		0.00	NTU	06/15/2004	1049	20	AB	
M_SP65	36	65	FLD	05232002	05232002	1	Water Temperature		5.4	Deg. C	05/23/2002	1700	20	SC	
M_SP65	36	65	FLD	05232002	05232002	2	pH		7.87	pH units	05/23/2002	1700	20	SC	
M_SP65	36	65	FLD	05232002	05232002	4	Spec. Conductivity		303	umhos/cm	05/23/2002	1700	20	SC	
M_SP65	36	65	FLD	05232002	05232002	11	Flow		0.194	gpm	05/23/2002	1700	20	SC	
M_SP65	36	65	FLD	05232002	05232002	66	Turbidity		4.05	NTU	05/23/2002	1700	20	SC	
M_SP65	36	65	FLD	10062002	10062002	1	Water Temperature		5.8	Deg. C	10/06/2002	1655	20	AB	
M_SP65	36	65	FLD	10062002	10062002	2	pH		6.98	pH units	10/06/2002	1655	20	AB	
M_SP65	36	65	FLD	10062002	10062002	4	Spec. Conductivity		529	umhos/cm	10/06/2002	1655	20	AB	
M_SP65	36	65	FLD	10062002	10062002	11	Flow		0.165	gpm	10/06/2002	1655	20	AB	
M_SP65	36	65	FLD	10062002	10062002	66	Turbidity		5.27	NTU	10/06/2002	1655	20	AB	
M_SP65	36	65	FLD	06032003	06032003	1	Water Temperature		4.6	Deg. C	06/03/2003	1939	20	MM	
M_SP65	36	65	FLD	06032003	06032003	2	pH		7.41	pH units	06/03/2003	1939	20	MM	
M_SP65	36	65	FLD	06032003	06032003	4	Spec. Conductivity		313	umhos/cm	06/03/2003	1939	20	MM	
M_SP65	36	65	FLD	06032003	06032003	11	Flow		2.653	gpm	06/03/2003	1939	20	MM	
M_SP65	36	65	FLD	06032003	06032003	66	Turbidity		0.23	NTU	06/03/2003	1939	20	MM	
M_SP65	36	65	FLD	09242003	09242003	1	Water Temperature		7.8	Deg. C	09/24/2003	1340	20	AB	
M_SP65	36	65	FLD	09242003	09242003	2	pH		7.99	pH units	09/24/2003	1340	20	AB	
M_SP65	36	65	FLD	09242003	09242003	4	Spec. Conductivity		277	umhos/cm	09/24/2003	1340	20	AB	
M_SP65	36	65	FLD	09242003	09242003	11	Flow		0.127	gpm	09/24/2003	1340	20	AB	
M_SP65	36	65	FLD	09242003	09242003	66	Turbidity		4.78	NTU	09/24/2003	1340	20	AB	
M_SP65	36	65	FLD	06152004	06152004	1	Water Temperature		4.4	Deg. C	06/15/2004	1251	20	AB	
M_SP65	36	65	FLD	06152004	06152004	2	pH		7.37	pH units	06/15/2004	1251	20	AB	
M_SP65	36	65	FLD	06152004	06152004	4	Spec. Conductivity		328	umhos/cm	06/15/2004	1251	20	AB	
M_SP65	36	65	FLD	06152004	06152004	11	Flow		0.457	gpm	06/15/2004	1251	20	AB	
M_SP65	36	65	FLD	06152004	06152004	66	Turbidity		0.42	NTU	06/15/2004	1251	20	AB	
M_SP66	36	66	FLD	05232002	05232002	1	Water Temperature		6.5	Deg. C	05/23/2002	1750	20	SC	
M_SP66	36	66	FLD	05232002	05232002	2	pH		7.59	pH units	05/23/2002	1750	20	SC	
M_SP66	36	66	FLD	05232002	05232002	4	Spec. Conductivity		309	umhos/cm	05/23/2002	1750	20	SC	
M_SP66	36	66	FLD	05232002	05232002	11	Flow		1.379	gpm	05/23/2002	1750	20	SC	
M_SP66	36	66	FLD	05232002	05232002	66	Turbidity		0.04	NTU	05/23/2002	1750	20	SC	
M_SP66	36	66	FLD	10062002	10062002	1	Water Temperature		8.6	Deg. C	10/06/2002	1615	20	AB	
M_SP66	36	66	FLD	10062002	10062002	2	pH		6.95	pH units	10/06/2002	1615	20	AB	
M_SP66	36	66	FLD	10062002	10062002	4	Spec. Conductivity		551	umhos/cm	10/06/2002	1615	20	AB	
M_SP66	36	66	FLD	10062002	10062002	11	Flow		0.476	gpm	10/06/2002	1615	20	AB	
M_SP66	36	66	FLD	10062002	10062002	66	Turbidity		0.45	NTU	10/06/2002	1615	20	AB	
M_SP66	36	66	FLD	06032003	06032003	1	Water Temperature		6.2	Deg. C	06/03/2003	2003	20	MM	
M_SP66	36	66	FLD	06032003	06032003	2	pH		7.32	pH units	06/03/2003	2003	20	MM	
M_SP66	36	66	FLD	06032003	06032003	4	Spec. Conductivity		320	umhos/cm	06/03/2003	2003	20	MM	
M_SP66	36	66	FLD	06032003	06032003	11	Flow		3.079	gpm	06/03/2003	2003	20	MM	
M_SP66	36	66	FLD	06032003	06032003	66	Turbidity		0.28	NTU	06/03/2003	2003	20	MM	
M_SP66	36	66	FLD	09242003	09242003	1	Water Temperature		9.0	Deg. C	09/24/2003	1255	20	AB	
M_SP66	36	66	FLD	09242003	09242003	2	pH		7.27	pH units	09/24/2003	1255	20	AB	
M_SP66	36	66	FLD	09242003	09242003	4	Spec. Conductivity		328	umhos/cm	09/24/2003	1255	20	AB	
M_SP66	36	66	FLD	09242003	09242003	11	Flow		0.985	gpm	09/24/2003	1255	20	AB	
M_SP66	36	66	FLD	09242003	09242003	66	Turbidity		0.37	NTU	09/24/2003	1255	20	AB	
M_SP66	36	66	FLD	06152004	06152004	1	Water Temperature		6.5	Deg. C	06/15/2004	1224	20	AB	
M_SP66	36	66	FLD	06152004	06152004	2	pH		7.26	pH units	06/15/2004	1224	20	AB	
M_SP66	36	66	FLD	06152004	06152004	4	Spec. Conductivity		328	umhos/cm	06/15/2004	1224	20	AB	
M_SP66	36	66	FLD	06152004	06152004	11	Flow		4.420	gpm	06/15/2004	1224	20	AB	
M_SP66	36	66	FLD	06152004	06152004	66	Turbidity		0.00	NTU	06/15/2004	1224	20	AB	
M_SP67	36	67	FLD	05242002	05242002	1	Water Temperature		11.0	Deg. C	05/24/2002	1215	20	SC	
M_SP67	36	67	FLD	05242002	05242002	2	pH		8.20	pH units	05/24/2002	1215	20	SC	
M_SP67	36	67	FLD	05242002	05242002	4	Spec. Conductivity		389	umhos/cm	05/24/2002	1215	20	SC	
M_SP67	36	67	FLD	05242002	05242002	11	Flow		1.331	gpm	05/24/2002	1215	20	SC	
M_SP67	36	67	FLD	05242002	05242002	66	Turbidity		0.52	NTU	05/24/2002	1215	20	SC	
M_SP67	36	67	FLD	10082002	10082002	1	Water Temperature		10.1	Deg. C	10/08/2002	1319	20	AB	
M_SP67	36	67	FLD	10082002	10082002	2	pH		7.38	pH units	10/08/2002	1319	20	AB	
M_SP67	36	67	FLD	10082002	10082002	4	Spec. Conductivity		594	umhos/cm	10/08/2002	1319	20	AB	
M_SP67	36	67	FLD	10082002	10082002	11	Flow		0.416	gpm	10/08/2002	1319	20	AB	
M_SP67	36	67	FLD	10082002	10082002	66	Turbidity		0.22	NTU	10/08/2002	1319	20	AB	
M_SP67	36	67	FLD	06032003	06032003	1	Water Temperature		7.6	Deg. C	06/03/2003	1544	20	MM	
M_SP67	36	67	FLD	06032003	06032003	2	pH		7.46	pH units	06/03/2003	1544	20	MM	
M_SP67	36	67	FLD	06032003	06032003	4	Spec. Conductivity		396	umhos/cm	06/03/2003	1544	20	MM	

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Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's_	Comments
M_SP67	36	67	FLD	06032003	06032003	11	Flow		1.023	gpm	06/03/2003	1544	20	MM	
M_SP67	36	67	FLD	06032003	06032003	66	Turbidity		0.12	NTU	06/03/2003	1544	20	MM	
M_SP67	36	67	FLD	09262003	09262003	1	Water Temperature		18.1	Deg. C	09/26/2003	1345	20	RG	
M_SP67	36	67	FLD	09262003	09262003	2	pH		8.45	pH units	09/26/2003	1345	20	RG	
M_SP67	36	67	FLD	09262003	09262003	4	Spec. Conductivity		623	umhos/cm	09/26/2003	1345	20	RG	
M_SP67	36	67	FLD	09262003	09262003	11	Flow		0.239	gpm	09/26/2003	1345	20	RG	
M_SP67	36	67	FLD	09262003	09262003	66	Turbidity		6.91	NTU	09/26/2003	1345	20	RG	
M_SP67	36	67	FLD	06152004	06152004	1	Water Temperature		11.8	Deg. C	06/15/2004	1520	20	RG	
M_SP67	36	67	FLD	06152004	06152004	2	pH		8.51	pH units	06/15/2004	1520	20	RG	
M_SP67	36	67	FLD	06152004	06152004	4	Spec. Conductivity		657	umhos/cm	06/15/2004	1520	20	RG	
M_SP67	36	67	FLD	06152004	06152004	11	Flow		0.923	gpm	06/15/2004	1520	20	RG	
M_SP67	36	67	FLD	06152004	06152004	66	Turbidity		23.70	NTU	06/15/2004	1520	20	RG	
M_SP68	36	68	FLD	05242002	05242002	1	Water Temperature		7.2	Deg. C	05/24/2002	1308	20	SC	
M_SP68	36	68	FLD	05242002	05242002	2	pH		7.67	pH units	05/24/2002	1308	20	SC	
M_SP68	36	68	FLD	05242002	05242002	4	Spec. Conductivity		270	umhos/cm	05/24/2002	1308	20	SC	
M_SP68	36	68	FLD	05242002	05242002	11	Flow		13.120	gpm	05/24/2002	1308	20	SC	
M_SP68	36	68	FLD	05242002	05242002	66	Turbidity		0.00	NTU	05/24/2002	1308	20	SC	
M_SP68	36	68	FLD	10082002	10082002	1	Water Temperature		7.4	Deg. C	10/08/2002	1222	20	AB	
M_SP68	36	68	FLD	10082002	10082002	2	pH		7.35	pH units	10/08/2002	1222	20	AB	
M_SP68	36	68	FLD	10082002	10082002	4	Spec. Conductivity		475	umhos/cm	10/08/2002	1222	20	AB	
M_SP68	36	68	FLD	10082002	10082002	11	Flow		9.983	gpm	10/08/2002	1222	20	AB	
M_SP68	36	68	FLD	10082002	10082002	66	Turbidity		0.00	NTU	10/08/2002	1222	20	AB	
M_SP68	36	68	FLD	06032003	06032003	1	Water Temperature		7.2	Deg. C	06/03/2003	1500	20	MM	
M_SP68	36	68	FLD	06032003	06032003	2	pH		7.65	pH units	06/03/2003	1500	20	MM	
M_SP68	36	68	FLD	06032003	06032003	4	Spec. Conductivity		283	umhos/cm	06/03/2003	1500	20	MM	
M_SP68	36	68	FLD	06032003	06032003	11	Flow		14.313	gpm	06/03/2003	1500	20	MM	
M_SP68	36	68	FLD	06032003	06032003	66	Turbidity		0.00	NTU	06/03/2003	1500	20	MM	
M_SP68	36	68	FLD	09262003	09262003	1	Water Temperature		7.5	Deg. C	09/26/2003	1305	20	RG	
M_SP68	36	68	FLD	09262003	09262003	2	pH		7.81	pH units	09/26/2003	1305	20	RG	
M_SP68	36	68	FLD	09262003	09262003	4	Spec. Conductivity		472	umhos/cm	09/26/2003	1305	20	RG	
M_SP68	36	68	FLD	09262003	09262003	11	Flow		14.052	gpm	09/26/2003	1305	20	RG	
M_SP68	36	68	FLD	09262003	09262003	66	Turbidity		0.00	NTU	09/26/2003	1305	20	RG	
M_SP68	36	68	FLD	06152004	06152004	1	Water Temperature		7.5	Deg. C	06/15/2004	1500	20	RG	
M_SP68	36	68	FLD	06152004	06152004	2	pH		8.41	pH units	06/15/2004	1500	20	RG	
M_SP68	36	68	FLD	06152004	06152004	4	Spec. Conductivity		499	umhos/cm	06/15/2004	1500	20	RG	
M_SP68	36	68	FLD	06152004	06152004	11	Flow		7.299	gpm	06/15/2004	1500	20	RG	
M_SP68	36	68	FLD	06152004	06152004	66	Turbidity		0.53	NTU	06/15/2004	1500	20	RG	
M_SP69	36	69	FLD	05242002	05242002	1	Water Temperature		7.4	Deg. C	05/24/2002	1350	20	SC	
M_SP69	36	69	FLD	05242002	05242002	2	pH		8.38	pH units	05/24/2002	1350	20	SC	
M_SP69	36	69	FLD	05242002	05242002	4	Spec. Conductivity		271	umhos/cm	05/24/2002	1350	20	SC	
M_SP69	36	69	FLD	05242002	05242002	11	Flow		2.973	gpm	05/24/2002	1350	20	SC	
M_SP69	36	69	FLD	05242002	05242002	66	Turbidity		4.71	NTU	05/24/2002	1350	20	SC	
M_SP69	36	69	FLD	10082002	10082002	1	Water Temperature		8.9	Deg. C	10/08/2002	1434	20	AB	
M_SP69	36	69	FLD	10082002	10082002	2	pH		7.40	pH units	10/08/2002	1434	20	AB	
M_SP69	36	69	FLD	10082002	10082002	4	Spec. Conductivity		477	umhos/cm	10/08/2002	1434	20	AB	
M_SP69	36	69	FLD	10082002	10082002	11	Flow		1.627	gpm	10/08/2002	1434	20	AB	
M_SP69	36	69	FLD	10082002	10082002	66	Turbidity		0.00	NTU	10/08/2002	1434	20	AB	
M_SP69	36	69	FLD	06032003	06032003	1	Water Temperature		7.7	Deg. C	06/03/2003	1337	20	MM	
M_SP69	36	69	FLD	06032003	06032003	2	pH		7.75	pH units	06/03/2003	1337	20	MM	
M_SP69	36	69	FLD	06032003	06032003	4	Spec. Conductivity		286	umhos/cm	06/03/2003	1337	20	MM	
M_SP69	36	69	FLD	06032003	06032003	11	Flow		2.145	gpm	06/03/2003	1337	20	MM	
M_SP69	36	69	FLD	06032003	06032003	66	Turbidity		0.44	NTU	06/03/2003	1337	20	MM	
M_SP69	36	69	FLD	09262003	09262003	1	Water Temperature		12.5	Deg. C	09/26/2003	1240	20	RG	
M_SP69	36	69	FLD	09262003	09262003	2	pH		8.44	pH units	09/26/2003	1240	20	RG	
M_SP69	36	69	FLD	09262003	09262003	4	Spec. Conductivity		374	umhos/cm	09/26/2003	1240	20	RG	
M_SP69	36	69	FLD	09262003	09262003	11	Flow		1.865	gpm	09/26/2003	1240	20	RG	
M_SP69	36	69	FLD	09262003	09262003	66	Turbidity		4.26	NTU	09/26/2003	1240	20	RG	
M_SP69	36	69	FLD	06152004	06152004	1	Water Temperature		7.8	Deg. C	06/15/2004	1420	20	RG	
M_SP69	36	69	FLD	06152004	06152004	2	pH		7.47	pH units	06/15/2004	1420	20	RG	
M_SP69	36	69	FLD	06152004	06152004	4	Spec. Conductivity		498	umhos/cm	06/15/2004	1420	20	RG	
M_SP69	36	69	FLD	06152004	06152004	11	Flow		1.098	gpm	06/15/2004	1420	20	RG	
M_SP69	36	69	FLD	06152004	06152004	66	Turbidity		0.22	NTU	06/15/2004	1420	20	RG	
M_SP70	36	70	FLD	05242002	05242002	1	Water Temperature		7.5	Deg. C	05/24/2002	1425	20	SC	
M_SP70	36	70	FLD	05242002	05242002	2	pH		7.75	pH units	05/24/2002	1425	20	SC	
M_SP70	36	70	FLD	05242002	05242002	4	Spec. Conductivity		282	umhos/cm	05/24/2002	1425	20	SC	
M_SP70	36	70	FLD	05242002	05242002	11	Flow		1.992	gpm	05/24/2002	1425	20	SC	
M_SP70	36	70	FLD	05242002	05242002	66	Turbidity		3.51	NTU	05/24/2002	1425	20	SC	
M_SP70	36	70	FLD	10082002	10082002	1	Water Temperature		7.9	Deg. C	10/08/2002	1517	20	AB	
M_SP70	36	70	FLD	10082002	10082002	2	pH		7.49	pH units	10/08/2002	1517	20	AB	
M_SP70	36	70	FLD	10082002	10082002	4	Spec. Conductivity		473	umhos/cm	10/08/2002	1517	20	AB	
M_SP70	36	70	FLD	10082002	10082002	11	Flow		1.886	gpm	10/08/2002	1517	20	AB	
M_SP70	36	70	FLD	10082002	10082002	66	Turbidity		0.09	NTU	10/08/2002	1517	20	AB	
M_SP70	36	70	FLD	06032003	06032003	1	Water Temperature		7.3	Deg. C	06/03/2003	1315	20	MM	
M_SP70	36	70	FLD	06032003	06032003	2	pH		8.02	pH units	06/03/2003	1315	20	MM	
M_SP70	36	70	FLD	06032003	06032003	4	Spec. Conductivity		288	umhos/cm	06/03/2003	1315	20	MM	
M_SP70	36	70	FLD	06032003	06032003	11	Flow		1.261	gpm	06/03/2003	1315	20	MM	
M_SP70	36	70	FLD	06032003	06032003	66	Turbidity		1.40	NTU	06/03/2003	1315	20	MM	

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M_SP70	36	70	FLD	09262003	09262003	1	Water Temperature		9.8	Deg. C	09/26/2003	1215	20	RG	
M_SP70	36	70	FLD	09262003	09262003	2	pH		8.33	pH units	09/26/2003	1215	20	RG	
M_SP70	36	70	FLD	09262003	09262003	4	Spec. Conductivity		396	umhos/cm	09/26/2003	1215	20	RG	
M_SP70	36	70	FLD	09262003	09262003	11	Flow		1.518	gpm	09/26/2003	1215	20	RG	
M_SP70	36	70	FLD	09262003	09262003	66	Turbidity		3.66	NTU	09/26/2003	1215	20	RG	
M_SP70	36	70	FLD	06152004	06152004	1	Water Temperature		8.7	Deg. C	06/15/2004	1400	20	RG	
M_SP70	36	70	FLD	06152004	06152004	2	pH		8.37	pH units	06/15/2004	1400	20	RG	
M_SP70	36	70	FLD	06152004	06152004	4	Spec. Conductivity		488	umhos/cm	06/15/2004	1400	20	RG	
M_SP70	36	70	FLD	06152004	06152004	11	Flow		1.135	gpm	06/15/2004	1400	20	RG	
M_SP70	36	70	FLD	06152004	06152004	66	Turbidity		1.05	NTU	06/15/2004	1400	20	RG	
M_SP72	36	72	FLD	05252002	05252002	1	Water Temperature		8.5	Deg. C	05/25/2002	1130	20	SC	
M_SP72	36	72	FLD	05252002	05252002	2	pH		7.92	pH units	05/25/2002	1130	20	SC	
M_SP72	36	72	FLD	05252002	05252002	4	Spec. Conductivity		361	umhos/cm	05/25/2002	1130	20	SC	
M_SP72	36	72	FLD	05252002	05252002	11	Flow		3.440	gpm	05/25/2002	1130	20	SC	
M_SP72	36	72	FLD	05252002	05252002	66	Turbidity		0.38	NTU	05/25/2002	1130	20	SC	
M_SP72	36	72	NOF	10082002	10082002						10/08/2002	1606	10	ED	
M_SP72	36	72	FLD	06042003	06042003	1	Water Temperature		8.0	Deg. C	06/04/2003	0959	20	ED	
M_SP72	36	72	FLD	06042003	06042003	2	pH		7.79	pH units	06/04/2003	0959	20	ED	
M_SP72	36	72	FLD	06042003	06042003	4	Spec. Conductivity		701	umhos/cm	06/04/2003	0959	20	ED	
M_SP72	36	72	FLD	06042003	06042003	11	Flow		4.598	gpm	06/04/2003	0959	20	ED	
M_SP72	36	72	FLD	06042003	06042003	66	Turbidity		9.99	NTU	06/04/2003	0959	20	ED	
M_SP72	36	72	NOF	09242003	09242003						09/24/2003	1100	10	RG	
M_SP72	36	72	FLD	06032004	06032004	1	Water Temperature		10.6	Deg. C	06/03/2004	1746	20	ED	
M_SP72	36	72	FLD	06032004	06032004	2	pH		7.57	pH units	06/03/2004	1746	20	ED	
M_SP72	36	72	FLD	06032004	06032004	4	Spec. Conductivity		372	umhos/cm	06/03/2004	1746	20	ED	
M_SP72	36	72	FLD	06032004	06032004	11	Flow		6.947	gpm	06/03/2004	1746	20	ED	
M_SP72	36	72	FLD	06032004	06032004	66	Turbidity		1.81	NTU	06/03/2004	1746	20	ED	
M_SP73	36	73	FLD	05252002	05252002	1	Water Temperature		10.0	Deg. C	05/25/2002	1432	20	SC	
M_SP73	36	73	FLD	05252002	05252002	2	pH		7.62	pH units	05/25/2002	1432	20	SC	
M_SP73	36	73	FLD	05252002	05252002	4	Spec. Conductivity		314	umhos/cm	05/25/2002	1432	20	SC	
M_SP73	36	73	FLD	05252002	05252002	11	Flow		2.268	gpm	05/25/2002	1432	20	SC	
M_SP73	36	73	FLD	05252002	05252002	66	Turbidity		0.36	NTU	05/25/2002	1432	20	SC	
M_SP73	36	73	FLD	10062002	10062002	1	Water Temperature		7.3	Deg. C	10/06/2002	1545	20	AB	
M_SP73	36	73	FLD	10062002	10062002	2	pH		7.03	pH units	10/06/2002	1545	20	AB	
M_SP73	36	73	FLD	10062002	10062002	4	Spec. Conductivity		447	umhos/cm	10/06/2002	1545	20	AB	
M_SP73	36	73	FLD	10062002	10062002	11	Flow		1.611	gpm	10/06/2002	1545	20	AB	
M_SP73	36	73	FLD	10062002	10062002	66	Turbidity		0.00	NTU	10/06/2002	1545	20	AB	
M_SP73	36	73	FLD	06032003	06032003	1	Water Temperature		6.4	Deg. C	06/03/2003	2030	20	MM	
M_SP73	36	73	FLD	06032003	06032003	2	pH		7.53	pH units	06/03/2003	2030	20	MM	
M_SP73	36	73	FLD	06032003	06032003	4	Spec. Conductivity		313	umhos/cm	06/03/2003	2030	20	MM	
M_SP73	36	73	FLD	06032003	06032003	11	Flow		2.341	gpm	06/03/2003	2030	20	MM	
M_SP73	36	73	FLD	06032003	06032003	66	Turbidity		0.31	NTU	06/03/2003	2030	20	MM	
M_SP73	36	73	FLD	09242003	09242003	1	Water Temperature		7.5	Deg. C	09/24/2003	1220	20	AB	
M_SP73	36	73	FLD	09242003	09242003	2	pH		7.42	pH units	09/24/2003	1220	20	AB	
M_SP73	36	73	FLD	09242003	09242003	4	Spec. Conductivity		307	umhos/cm	09/24/2003	1220	20	AB	
M_SP73	36	73	FLD	09242003	09242003	11	Flow		2.141	gpm	09/24/2003	1220	20	AB	
M_SP73	36	73	FLD	09242003	09242003	66	Turbidity		0.59	NTU	09/24/2003	1220	20	AB	
M_SP73	36	73	FLD	06152004	06152004	1	Water Temperature		6.6	Deg. C	06/15/2004	1158	20	AB	
M_SP73	36	73	FLD	06152004	06152004	2	pH		7.37	pH units	06/15/2004	1158	20	AB	
M_SP73	36	73	FLD	06152004	06152004	4	Spec. Conductivity		321	umhos/cm	06/15/2004	1158	20	AB	
M_SP73	36	73	FLD	06152004	06152004	11	Flow		2.840	gpm	06/15/2004	1158	20	AB	
M_SP73	36	73	FLD	06152004	06152004	66	Turbidity		0.00	NTU	06/15/2004	1158	20	AB	
M_SP75	36	75	FLD	05222002	05222002	1	Water Temperature		5.9	Deg. C	05/22/2002	1120	20	ED	
M_SP75	36	75	FLD	05222002	05222002	2	pH		7.23	pH units	05/22/2002	1120	20	ED	
M_SP75	36	75	FLD	05222002	05222002	4	Spec. Conductivity		699	umhos/cm	05/22/2002	1120	20	ED	
M_SP75	36	75	FLD	05222002	05222002	11	Flow		5.461	gpm	05/22/2002	1120	20	ED	
M_SP75	36	75	FLD	05222002	05222002	66	Turbidity		2.10	NTU	05/22/2002	1120	20	ED	
M_SP75	36	75	NOF	09282002	09282002						09/28/2002	1510	10	AB	
M_SP75	36	75	FLD	06052003	06052003	1	Water Temperature		8.8	Deg. C	06/05/2003	1720	20	MM	
M_SP75	36	75	FLD	06052003	06052003	2	pH		7.47	pH units	06/05/2003	1720	20	MM	
M_SP75	36	75	FLD	06052003	06052003	4	Spec. Conductivity		631	umhos/cm	06/05/2003	1720	20	MM	
M_SP75	36	75	FLD	06052003	06052003	11	Flow		11.512	gpm	06/05/2003	1720	20	MM	
M_SP75	36	75	FLD	06052003	06052003	66	Turbidity		0.59	NTU	06/05/2003	1720	20	MM	
M_SP75	36	75	NOF	09252003	09252003						09/25/2003	1540	10	AB	
M_SP75	36	75	FLD	06162004	06162004	1	Water Temperature		8.1	Deg. C	06/16/2004	1900	20	RG	
M_SP75	36	75	FLD	06162004	06162004	2	pH		7.39	pH units	06/16/2004	1900	20	RG	
M_SP75	36	75	FLD	06162004	06162004	4	Spec. Conductivity		653	umhos/cm	06/16/2004	1900	20	RG	
M_SP75	36	75	FLD	06162004	06162004	11	Flow		3.181	gpm	06/16/2004	1900	20	RG	
M_SP75	36	75	FLD	06162004	06162004	66	Turbidity		0.31	NTU	06/16/2004	1900	20	RG	
M_SP76	36	76	FLD	05222002	05222002	1	Water Temperature		5.3	Deg. C	05/22/2002	1813	20	ED	
M_SP76	36	76	FLD	05222002	05222002	2	pH		7.23	pH units	05/22/2002	1813	20	ED	
M_SP76	36	76	FLD	05222002	05222002	4	Spec. Conductivity		550	umhos/cm	05/22/2002	1813	20	ED	
M_SP76	36	76	FLD	05222002	05222002	11	Flow		4.426	gpm	05/22/2002	1813	20	ED	
M_SP76	36	76	FLD	05222002	05222002	66	Turbidity		0.67	NTU	05/22/2002	1813	20	ED	
M_SP76	36	76	NOF	10072002	10072002						10/07/2002	1600	10	AB	
M_SP76	36	76	FLD	06022003	06022003	1	Water Temperature		4.0	Deg. C	06/02/2003	1848	20	ED, MM	
M_SP76	36	76	FLD	06022003	06022003	2	pH		7.52	pH units	06/02/2003	1848	20	ED, MM	

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M_SP76	36	76	FLD	06022003	06022003	4	Spec. Conductivity		385	umhos/cm	06/02/2003	1848	20	ED, MM	
M_SP76	36	76	FLD	06022003	06022003	11	Flow		6.132	gpm	06/02/2003	1848	20	ED, MM	
M_SP76	36	76	FLD	06022003	06022003	66	Turbidity		0.71	NTU	06/02/2003	1848	20	ED, MM	
M_SP76	36	76	NOF	09252003	09252003						09/25/2003	1315	10	AB	
M_SP76	36	76	FLD	06052004	06052004	1	Water Temperature		6.0	Deg. C	06/05/2004	1715	20	AB	
M_SP76	36	76	FLD	06052004	06052004	2	pH		7.74	pH units	06/05/2004	1715	20	AB	
M_SP76	36	76	FLD	06052004	06052004	4	Spec. Conductivity		356	umhos/cm	06/05/2004	1715	20	AB	
M_SP76	36	76	FLD	06052004	06052004	11	Flow		15.216	gpm	06/05/2004	1715	20	AB	
M_SP76	36	76	FLD	06052004	06052004	66	Turbidity		0.00	NTU	06/05/2004	1715	20	AB	
M_SP77	36	77	FLD	05232002	05232002	1	Water Temperature		10.1	Deg. C	05/23/2002	1107	20	ED	
M_SP77	36	77	FLD	05232002	05232002	2	pH		7.76	pH units	05/23/2002	1107	20	ED	
M_SP77	36	77	FLD	05232002	05232002	4	Spec. Conductivity		494	umhos/cm	05/23/2002	1107	20	ED	
M_SP77	36	77	FLD	05232002	05232002	11	Flow		3.164	gpm	05/23/2002	1107	20	ED	
M_SP77	36	77	FLD	05232002	05232002	66	Turbidity		8.53	NTU	05/23/2002	1107	20	ED	
M_SP77	36	77	NOF	10082002	10082002						10/08/2002	1217	10	ED	
M_SP77	36	77	FLD	06042003	06042003	1	Water Temperature		15.5	Deg. C	06/04/2003	1635	20	ED	
M_SP77	36	77	FLD	06042003	06042003	2	pH		7.52	pH units	06/04/2003	1635	20	ED	
M_SP77	36	77	FLD	06042003	06042003	4	Spec. Conductivity		532	umhos/cm	06/04/2003	1635	20	ED	
M_SP77	36	77	FLD	06042003	06042003	11	Flow		5.680	gpm	06/04/2003	1635	20	ED	
M_SP77	36	77	FLD	06042003	06042003	66	Turbidity		19.29	NTU	06/04/2003	1635	20	ED	
M_SP77	36	77	NOF	09242003	09242003						09/24/2003	1405	10	RG	
M_SP77	36	77	FLD	06042004	06042004	1	Water Temperature		12.8	Deg. C	06/04/2004	2204	20	ED	
M_SP77	36	77	FLD	06042004	06042004	2	pH		7.68	pH units	06/04/2004	2204	20	ED	
M_SP77	36	77	FLD	06042004	06042004	4	Spec. Conductivity		511	umhos/cm	06/04/2004	2204	20	ED	
M_SP77	36	77	FLD	06042004	06042004	11	Flow		7.264	gpm	06/04/2004	2204	20	ED	
M_SP77	36	77	FLD	06042004	06042004	66	Turbidity		0.87	NTU	06/04/2004	2204	20	ED	
M_SP78	36	78	FLD	05232002	05232002	1	Water Temperature		7.3	Deg. C	05/23/2002	1433	20	ED	
M_SP78	36	78	FLD	05232002	05232002	2	pH		7.85	pH units	05/23/2002	1433	20	ED	
M_SP78	36	78	FLD	05232002	05232002	4	Spec. Conductivity		504	umhos/cm	05/23/2002	1433	20	ED	
M_SP78	36	78	FLD	05232002	05232002	11	Flow		1.829	gpm	05/23/2002	1433	20	ED	
M_SP78	36	78	FLD	05232002	05232002	66	Turbidity		0.00	NTU	05/23/2002	1433	20	ED	
M_SP78	36	78	NOF	10082002	10082002						10/08/2002	1342	10	ED	
M_SP78	36	78	FLD	06042003	06042003	1	Water Temperature		8.7	Deg. C	06/04/2003	1739	20	ED	
M_SP78	36	78	FLD	06042003	06042003	2	pH		7.69	pH units	06/04/2003	1739	20	ED	
M_SP78	36	78	FLD	06042003	06042003	4	Spec. Conductivity		562	umhos/cm	06/04/2003	1739	20	ED	
M_SP78	36	78	FLD	06042003	06042003	11	Flow		3.451	gpm	06/04/2003	1739	20	ED	
M_SP78	36	78	FLD	06042003	06042003	66	Turbidity		15.99	NTU	06/04/2003	1739	20	ED	
M_SP78	36	78	NOF	09242003	09242003						09/24/2003	1353	10	RG	
M_SP78	36	78	FLD	06042004	06042004	1	Water Temperature		8.9	Deg. C	06/04/2004	2059	20	ED	
M_SP78	36	78	FLD	06042004	06042004	2	pH		7.75	pH units	06/04/2004	2059	20	ED	
M_SP78	36	78	FLD	06042004	06042004	4	Spec. Conductivity		546	umhos/cm	06/04/2004	2059	20	ED	
M_SP78	36	78	FLD	06042004	06042004	11	Flow		3.873	gpm	06/04/2004	2059	20	ED	
M_SP78	36	78	FLD	06042004	06042004	66	Turbidity		0.24	NTU	06/04/2004	2059	20	ED	
M_SP79	36	79	FLD	05232002	05232002	1	Water Temperature		8.6	Deg. C	05/23/2002	1729	20	ED	
M_SP79	36	79	FLD	05232002	05232002	2	pH		7.76	pH units	05/23/2002	1729	20	ED	
M_SP79	36	79	FLD	05232002	05232002	4	Spec. Conductivity		480	umhos/cm	05/23/2002	1729	20	ED	
M_SP79	36	79	FLD	05232002	05232002	11	Flow		11.673	gpm	05/23/2002	1729	20	ED	
M_SP79	36	79	FLD	05232002	05232002	66	Turbidity		0.25	NTU	05/23/2002	1729	20	ED	
M_SP79	36	79	NOF	10082002	10082002						10/08/2002	1533	10	ED	
M_SP79	36	79	FLD	06042003	06042003	1	Water Temperature		10.9	Deg. C	06/04/2003	1119	20	ED	
M_SP79	36	79	FLD	06042003	06042003	2	pH		7.60	pH units	06/04/2003	1119	20	ED	
M_SP79	36	79	FLD	06042003	06042003	4	Spec. Conductivity		521	umhos/cm	06/04/2003	1119	20	ED	
M_SP79	36	79	FLD	06042003	06042003	11	Flow		18.371	gpm	06/04/2003	1119	20	ED	
M_SP79	36	79	FLD	06042003	06042003	66	Turbidity		18.87	NTU	06/04/2003	1119	20	ED	
M_SP79	36	79	NOF	09222003	09222003						09/22/2003	1825	10	RG	
M_SP79	36	79	FLD	06032004	06032004	1	Water Temperature		10.2	Deg. C	06/03/2004	1820	20	ED	
M_SP79	36	79	FLD	06032004	06032004	2	pH		7.59	pH units	06/03/2004	1820	20	ED	
M_SP79	36	79	FLD	06032004	06032004	4	Spec. Conductivity		520	umhos/cm	06/03/2004	1820	20	ED	
M_SP79	36	79	FLD	06032004	06032004	11	Flow		22.318	gpm	06/03/2004	1820	20	ED	
M_SP79	36	79	FLD	06032004	06032004	66	Turbidity		0.25	NTU	06/03/2004	1820	20	ED	
M_SP80	36	80	FLD	05242002	05242002	1	Water Temperature		9.4	Deg. C	05/24/2002	1452	20	ED	
M_SP80	36	80	FLD	05242002	05242002	2	pH		8.01	pH units	05/24/2002	1452	20	ED	
M_SP80	36	80	FLD	05242002	05242002	4	Spec. Conductivity		647	umhos/cm	05/24/2002	1452	20	ED	
M_SP80	36	80	FLD	05242002	05242002	11	Flow		1.034	gpm	05/24/2002	1452	20	ED	
M_SP80	36	80	FLD	05242002	05242002	66	Turbidity		0.00	NTU	05/24/2002	1452	20	ED	
M_SP80	36	80	FLD	10072002	10072002	1	Water Temperature		12.0	Deg. C	10/07/2002	1409	20	ED	
M_SP80	36	80	FLD	10072002	10072002	2	pH		7.83	pH units	10/07/2002	1409	20	ED	
M_SP80	36	80	FLD	10072002	10072002	4	Spec. Conductivity		407	umhos/cm	10/07/2002	1409	20	ED	
M_SP80	36	80	FLD	10072002	10072002	11	Flow		1.572	gpm	10/07/2002	1409	20	ED	
M_SP80	36	80	FLD	10072002	10072002	66	Turbidity		136.00	NTU	10/07/2002	1409	20	ED	
M_SP80	36	80	FLD	06032003	06032003	1	Water Temperature		12.4	Deg. C	06/03/2003	1140	20	ED	
M_SP80	36	80	FLD	06032003	06032003	2	pH		7.81	pH units	06/03/2003	1140	20	ED	
M_SP80	36	80	FLD	06032003	06032003	4	Spec. Conductivity		648	umhos/cm	06/03/2003	1140	20	ED	
M_SP80	36	80	FLD	06032003	06032003	11	Flow		1.477	gpm	06/03/2003	1140	20	ED	
M_SP80	36	80	FLD	06032003	06032003	66	Turbidity		31.80	NTU	06/03/2003	1140	20	ED	
M_SP80	36	80	FLD	10092003	10092003	1	Water Temperature		17.2	Deg. C	10/09/2003	1530	20	RG	
M_SP80	36	80	FLD	10092003	10092003	2	pH		8.13	pH units	10/09/2003	1530	20	RG	

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Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_Ir	Paramete	Unit_of_Me	Date_Sampled	Sampl	Sam	Sampler's	Comments
M_SP80	36	80	FLD	10092003	10092003	4	Spec. Conductivity		431	umhos/cm	10/09/2003	1530	20	RG	
M_SP80	36	80	FLD	10092003	10092003	11	Flow		0.368	gpm	10/09/2003	1530	20	RG	
M_SP80	36	80	FLD	10092003	10092003	66	Turbidity		5.54	NTU	10/09/2003	1530	20	RG	
M_SP80	36	80	FLD	06042004	06042004	1	Water Temperature		13.1	Deg. C	06/04/2004	1134	20	ED	
M_SP80	36	80	FLD	06042004	06042004	2	pH		7.97	pH units	06/04/2004	1134	20	ED	
M_SP80	36	80	FLD	06042004	06042004	4	Spec. Conductivity		667	umhos/cm	06/04/2004	1134	20	ED	
M_SP80	36	80	FLD	06042004	06042004	11	Flow		5.882	gpm	06/04/2004	1134	20	ED	
M_SP80	36	80	FLD	06042004	06042004	66	Turbidity		0.34	NTU	06/04/2004	1134	20	ED	
M_SP81	36	81	FLD	05242002	05242002	1	Water Temperature		7.4	Deg. C	05/24/2002	1603	20	ED	
M_SP81	36	81	FLD	05242002	05242002	2	pH		7.93	pH units	05/24/2002	1603	20	ED	
M_SP81	36	81	FLD	05242002	05242002	4	Spec. Conductivity		924	umhos/cm	05/24/2002	1603	20	ED	
M_SP81	36	81	FLD	05242002	05242002	11	Flow		0.137	gpm	05/24/2002	1603	20	ED	
M_SP81	36	81	FLD	05242002	05242002	66	Turbidity		0.04	NTU	05/24/2002	1603	20	ED	
M_SP81	36	81	NOF	10072002	10072002						10/07/2002	1512	10	ED	
M_SP81	36	81	FLD	06032003	06032003	1	Water Temperature		10.9	Deg. C	06/03/2003	1246	20	ED	
M_SP81	36	81	FLD	06032003	06032003	2	pH		8.23	pH units	06/03/2003	1246	20	ED	
M_SP81	36	81	FLD	06032003	06032003	4	Spec. Conductivity		982	umhos/cm	06/03/2003	1246	20	ED	
M_SP81	36	81	FLD	06032003	06032003	11	Flow		0.235	gpm	06/03/2003	1246	20	ED	
M_SP81	36	81	FLD	06032003	06032003	66	Turbidity		30.84	NTU	06/03/2003	1246	20	ED	
M_SP81	36	81	NOF	09232003	09232003						09/23/2003	1705	10	RG	
M_SP81	36	81	FLD	06042004	06042004	1	Water Temperature		11.2	Deg. C	06/04/2004	1229	20	ED	
M_SP81	36	81	FLD	06042004	06042004	2	pH		8.36	pH units	06/04/2004	1229	20	ED	
M_SP81	36	81	FLD	06042004	06042004	4	Spec. Conductivity		978	umhos/cm	06/04/2004	1229	20	ED	
M_SP81	36	81	FLD	06042004	06042004	11	Flow		0.270	gpm	06/04/2004	1229	20	ED	
M_SP81	36	81	FLD	06042004	06042004	66	Turbidity		9.83	NTU	06/04/2004	1229	20	ED	
M_SP82	36	82	FLD	05252002	05252002	1	Water Temperature		6.8	Deg. C	05/25/2002	1446	20	ED	
M_SP82	36	82	FLD	05252002	05252002	2	pH		7.65	pH units	05/25/2002	1446	20	ED	
M_SP82	36	82	FLD	05252002	05252002	4	Spec. Conductivity		667	umhos/cm	05/25/2002	1446	20	ED	
M_SP82	36	82	FLD	05252002	05252002	11	Flow		2.383	gpm	05/25/2002	1446	20	ED	
M_SP82	36	82	FLD	05252002	05252002	66	Turbidity		0.00	NTU	05/25/2002	1446	20	ED	
M_SP82	36	82	FLD	10072002	10072002	1	Water Temperature		4.6	Deg. C	10/07/2002	1055	20	ED	
M_SP82	36	82	FLD	10072002	10072002	2	pH		8.01	pH units	10/07/2002	1055	20	ED	
M_SP82	36	82	FLD	10072002	10072002	4	Spec. Conductivity		370	umhos/cm	10/07/2002	1055	20	ED	
M_SP82	36	82	FLD	10072002	10072002	11	Flow		1.303	gpm	10/07/2002	1055	20	ED	
M_SP82	36	82	FLD	10072002	10072002	66	Turbidity		0.00	NTU	10/07/2002	1055	20	ED	
M_SP82	36	82	FLD	06032003	06032003	1	Water Temperature		5.1	Deg. C	06/03/2003	0950	20	ED	
M_SP82	36	82	FLD	06032003	06032003	2	pH		7.70	pH units	06/03/2003	0950	20	ED	
M_SP82	36	82	FLD	06032003	06032003	4	Spec. Conductivity		629	umhos/cm	06/03/2003	0950	20	ED	
M_SP82	36	82	FLD	06032003	06032003	11	Flow		5.384	gpm	06/03/2003	0950	20	ED	
M_SP82	36	82	FLD	06032003	06032003	66	Turbidity		16.95	NTU	06/03/2003	0950	20	ED	
M_SP82	36	82	FLD	09232003	09232003	1	Water Temperature		5.9	Deg. C	09/23/2003	1420	20	RG	
M_SP82	36	82	FLD	09232003	09232003	2	pH		7.98	pH units	09/23/2003	1420	20	RG	
M_SP82	36	82	FLD	09232003	09232003	4	Spec. Conductivity		471	umhos/cm	09/23/2003	1420	20	RG	
M_SP82	36	82	FLD	09232003	09232003	11	Flow		1.259	gpm	09/23/2003	1420	20	RG	
M_SP82	36	82	FLD	09232003	09232003	66	Turbidity		1.47	NTU	09/23/2003	1420	20	RG	
M_SP82	36	82	FLD	06042004	06042004	1	Water Temperature		5.0	Deg. C	06/04/2004	1013	20	ED	
M_SP82	36	82	FLD	06042004	06042004	2	pH		7.87	pH units	06/04/2004	1013	20	ED	
M_SP82	36	82	FLD	06042004	06042004	4	Spec. Conductivity		491	umhos/cm	06/04/2004	1013	20	ED	
M_SP82	36	82	FLD	06042004	06042004	11	Flow		3.601	gpm	06/04/2004	1013	20	ED	
M_SP82	36	82	FLD	06042004	06042004	66	Turbidity		0.00	NTU	06/04/2004	1013	20	ED	
M_SP85	36	85	FLD	05262002	05262002	1	Water Temperature		13.2	Deg. C	05/26/2002	1209	20	ED	
M_SP85	36	85	FLD	05262002	05262002	2	pH		8.59	pH units	05/26/2002	1209	20	ED	
M_SP85	36	85	FLD	05262002	05262002	4	Spec. Conductivity		270	umhos/cm	05/26/2002	1209	20	ED	
M_SP85	36	85	FLD	05262002	05262002	11	Flow		5.800	gpm	05/26/2002	1209	20	ED	
M_SP85	36	85	FLD	05262002	05262002	66	Turbidity		41.47	NTU	05/26/2002	1209	20	ED	
M_SP85	36	85	FLD	10072002	10072002	1	Water Temperature		8.0	Deg. C	10/07/2002	1843	20	ED	
M_SP85	36	85	FLD	10072002	10072002	2	pH		8.49	pH units	10/07/2002	1843	20	ED	
M_SP85	36	85	FLD	10072002	10072002	4	Spec. Conductivity		273	umhos/cm	10/07/2002	1843	20	ED	
M_SP85	36	85	FLD	10072002	10072002	11	Flow		6.143	gpm	10/07/2002	1843	20	ED	
M_SP85	36	85	FLD	10072002	10072002	66	Turbidity		12.10	NTU	10/07/2002	1843	20	ED	
M_SP85	36	85	FLD	06032003	06032003	1	Water Temperature		18.4	Deg. C	06/03/2003	1700	20	ED	
M_SP85	36	85	FLD	06032003	06032003	2	pH		8.52	pH units	06/03/2003	1700	20	ED	
M_SP85	36	85	FLD	06032003	06032003	4	Spec. Conductivity		435	umhos/cm	06/03/2003	1700	20	ED	
M_SP85	36	85	FLD	06032003	06032003	11	Flow		26.200	gpm	06/03/2003	1700	20	ED	
M_SP85	36	85	FLD	06032003	06032003	66	Turbidity		28.32	NTU	06/03/2003	1700	20	ED	
M_SP85	36	85	FLD	10092003	10092003	1	Water Temperature		12.1	Deg. C	10/09/2003	1220	20	RG	
M_SP85	36	85	FLD	10092003	10092003	2	pH		8.49	pH units	10/09/2003	1220	20	RG	
M_SP85	36	85	FLD	10092003	10092003	4	Spec. Conductivity		289	umhos/cm	10/09/2003	1220	20	RG	
M_SP85	36	85	FLD	10092003	10092003	11	Flow		1.100	gpm	10/09/2003	1220	20	RG	
M_SP85	36	85	FLD	10092003	10092003	66	Turbidity		3.64	NTU	10/09/2003	1220	20	RG	
M_SP85	36	85	FLD	06042004	06042004	1	Water Temperature		18.6	Deg. C	06/04/2004	1421	20	ED	
M_SP85	36	85	FLD	06042004	06042004	2	pH		8.76	pH units	06/04/2004	1421	20	ED	
M_SP85	36	85	FLD	06042004	06042004	4	Spec. Conductivity		465	umhos/cm	06/04/2004	1421	20	ED	
M_SP85	36	85	FLD	06042004	06042004	11	Flow		69.000	gpm	06/04/2004	1421	20	ED	
M_SP85	36	85	FLD	06042004	06042004	66	Turbidity		2.59	NTU	06/04/2004	1421	20	ED	
M_SP86	36	86	FLD	05262002	05262002	1	Water Temperature		12.2	Deg. C	05/26/2002	1235	20	ED	
M_SP86	36	86	FLD	05262002	05262002	2	pH		8.41	pH units	05/26/2002	1235	20	ED	

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Spring/Stre	DO	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	Sam	Sampler's	Comments
M_SP86	36	86	FLD	05262002	05262002	4	Spec. Conductivity		273	umhos/cm	05/26/2002	1235	20	ED	
M_SP86	36	86	FLD	05262002	05262002	11	Flow		13.000	gpm	05/26/2002	1235	20	ED	
M_SP86	36	86	FLD	05262002	05262002	66	Turbidity		48.70	NTU	05/26/2002	1235	20	ED	
M_SP86	36	86	NOF	10072002	10072002						10/07/2002	1810	10	ED	
M_SP86	36	86	FLD	06032003	06032003	1	Water Temperature		14.9	Deg. C	06/03/2003	1815	20	ED	
M_SP86	36	86	FLD	06032003	06032003	2	pH		8.45	pH units	06/03/2003	1815	20	ED	
M_SP86	36	86	FLD	06032003	06032003	4	Spec. Conductivity		482	umhos/cm	06/03/2003	1815	20	ED	
M_SP86	36	86	FLD	06032003	06032003	11	Flow		12.000	gpm	06/03/2003	1815	20	ED	
M_SP86	36	86	FLD	06032003	06032003	66	Turbidity		31.80	NTU	06/03/2003	1815	20	ED	
M_SP86	36	86	FLD	10092003	10092003	1	Water Temperature		10.5	Deg. C	10/09/2003	1120	20	RG	
M_SP86	36	86	FLD	10092003	10092003	2	pH		8.53	pH units	10/09/2003	1120	20	RG	
M_SP86	36	86	FLD	10092003	10092003	4	Spec. Conductivity		272	umhos/cm	10/09/2003	1120	20	RG	
M_SP86	36	86	FLD	10092003	10092003	11	Flow		2.450	gpm	10/09/2003	1120	20	RG	
M_SP86	36	86	FLD	10092003	10092003	66	Turbidity		5.45	NTU	10/09/2003	1120	20	RG	
M_SP86	36	86	NOF	06042004	06042004						06/04/2004	1512	10	ED	
M_SP87	36	87	FLD	05262002	05262002	1	Water Temperature		5.2	Deg. C	05/26/2002	1648	20	ED	
M_SP87	36	87	FLD	05262002	05262002	2	pH		8.32	pH units	05/26/2002	1648	20	ED	
M_SP87	36	87	FLD	05262002	05262002	4	Spec. Conductivity		681	umhos/cm	05/26/2002	1648	20	ED	
M_SP87	36	87	FLD	05262002	05262002	11	Flow		2.193	gpm	05/26/2002	1648	20	ED	
M_SP87	36	87	FLD	05262002	05262002	66	Turbidity		0.25	NTU	05/26/2002	1648	20	ED	
M_SP87	36	87	FLD	09292002	09292002	1	Water Temperature		5.2	Deg. C	09/29/2002	1005	20	ED	
M_SP87	36	87	FLD	09292002	09292002	2	pH		8.13	pH units	09/29/2002	1005	20	ED	
M_SP87	36	87	FLD	09292002	09292002	4	Spec. Conductivity		627	umhos/cm	09/29/2002	1005	20	ED	
M_SP87	36	87	FLD	09292002	09292002	11	Flow		2.313	gpm	09/29/2002	1005	20	ED	
M_SP87	36	87	FLD	09292002	09292002	66	Turbidity		0.05	NTU	09/29/2002	1005	20	ED	
M_SP87	36	87	FLD	05222003	05222003	1	Water Temperature		4.1	Deg. C	05/22/2003	0938	20	ED, MM	
M_SP87	36	87	FLD	05222003	05222003	2	pH		7.86	pH units	05/22/2003	0938	20	ED, MM	
M_SP87	36	87	FLD	05222003	05222003	4	Spec. Conductivity		699	umhos/cm	05/22/2003	0938	20	ED, MM	
M_SP87	36	87	FLD	05222003	05222003	11	Flow		3.079	gpm	05/22/2003	0938	20	ED, MM	
M_SP87	36	87	FLD	05222003	05222003	66	Turbidity		16.17	NTU	05/22/2003	0938	20	ED, MM	
M_SP87	36	87	FLD	10072003	10072003	1	Water Temperature		6.1	Deg. C	10/07/2003	1438	20	JS, RG	
M_SP87	36	87	FLD	10072003	10072003	2	pH		8.14	pH units	10/07/2003	1438	20	JS, RG	
M_SP87	36	87	FLD	10072003	10072003	3	D.O.		6.60	mg/l	10/07/2003	1438	20	JS, RG	
M_SP87	36	87	FLD	10072003	10072003	4	Spec. Conductivity		770	umhos/cm	10/07/2003	1438	20	JS, RG	
M_SP87	36	87	FLD	10072003	10072003	11	Flow		2.515	gpm	10/07/2003	1438	20	JS, RG	
M_SP87	36	87	FLD	10072003	10072003	66	Turbidity		5.02	NTU	10/07/2003	1438	20	JS, RG	
M_SP87	36	87	FLD	05132004	05132004	1	Water Temperature		3.6	Deg. C	05/13/2004	1411	20	ED	
M_SP87	36	87	FLD	05132004	05132004	2	pH		8.39	pH units	05/13/2004	1411	20	ED	
M_SP87	36	87	FLD	05132004	05132004	4	Spec. Conductivity		1277	umhos/cm	05/13/2004	1411	20	ED	
M_SP87	36	87	FLD	05132004	05132004	11	Flow		2.907	gpm	05/13/2004	1411	20	ED	
M_SP87	36	87	FLD	05132004	05132004	66	Turbidity		0.59	NTU	05/13/2004	1411	20	ED	
M_SP88	36	88	FLD	06252002	06252002	1	Water Temperature		9.2	Deg. C	06/25/2002	1619	20	ED	
M_SP88	36	88	FLD	06252002	06252002	2	pH		7.53	pH units	06/25/2002	1619	20	ED	
M_SP88	36	88	FLD	06252002	06252002	4	Spec. Conductivity		620	umhos/cm	06/25/2002	1619	20	ED	
M_SP88	36	88	FLD	06252002	06252002	11	Flow		3.364	gpm	06/25/2002	1619	20	ED	
M_SP88	36	88	FLD	06252002	06252002	66	Turbidity		6.82	NTU	06/25/2002	1619	20	ED	
M_SP88	36	88	FLD	09272002	09272002	1	Water Temperature		7.5	Deg. C	09/27/2002	1658	20	AB	
M_SP88	36	88	FLD	09272002	09272002	2	pH		8.19	pH units	09/27/2002	1658	20	AB	
M_SP88	36	88	FLD	09272002	09272002	4	Spec. Conductivity		698	umhos/cm	09/27/2002	1658	20	AB	
M_SP88	36	88	FLD	09272002	09272002	11	Flow		4.759	gpm	09/27/2002	1658	20	AB	
M_SP88	36	88	FLD	09272002	09272002	66	Turbidity		0.00	NTU	09/27/2002	1658	20	AB	
M_SP88	36	88	FLD	05212003	05212003	1	Water Temperature		9.6	Deg. C	05/21/2003	1625	20	AB	
M_SP88	36	88	FLD	05212003	05212003	2	pH		8.40	pH units	05/21/2003	1625	20	AB	
M_SP88	36	88	FLD	05212003	05212003	4	Spec. Conductivity		718	umhos/cm	05/21/2003	1625	20	AB	
M_SP88	36	88	FLD	05212003	05212003	11	Flow		5.952	gpm	05/21/2003	1625	20	AB	
M_SP88	36	88	FLD	05212003	05212003	66	Turbidity		0.10	NTU	05/21/2003	1625	20	AB	
M_SP88	36	88	FLD	09262003	09262003	1	Water Temperature		8.0	Deg. C	09/26/2003	1650	20	AB	
M_SP88	36	88	FLD	09262003	09262003	2	pH		8.54	pH units	09/26/2003	1650	20	AB	
M_SP88	36	88	FLD	09262003	09262003	4	Spec. Conductivity		434	umhos/cm	09/26/2003	1650	20	AB	
M_SP88	36	88	FLD	09262003	09262003	11	Flow		3.803	gpm	09/26/2003	1650	20	AB	
M_SP88	36	88	FLD	09262003	09262003	66	Turbidity		1.78	NTU	09/26/2003	1650	20	AB	
M_SP88	36	88	FLD	06042004	06042004	1	Water Temperature		6.7	Deg. C	06/04/2004	1109	20	AB	
M_SP88	36	88	FLD	06042004	06042004	2	pH		8.47	pH units	06/04/2004	1109	20	AB	
M_SP88	36	88	FLD	06042004	06042004	4	Spec. Conductivity		428	umhos/cm	06/04/2004	1109	20	AB	
M_SP88	36	88	FLD	06042004	06042004	11	Flow		3.625	gpm	06/04/2004	1109	20	AB	
M_SP88	36	88	FLD	06042004	06042004	66	Turbidity		0.15	NTU	06/04/2004	1109	20	AB	
M_SP89	36	89	FLD	06252002	06252002	1	Water Temperature		6.6	Deg. C	06/25/2002	2031	20	ED	
M_SP89	36	89	FLD	06252002	06252002	2	pH		7.20	pH units	06/25/2002	2031	20	ED	
M_SP89	36	89	FLD	06252002	06252002	4	Spec. Conductivity		491	umhos/cm	06/25/2002	2031	20	ED	
M_SP89	36	89	FLD	06252002	06252002	11	Flow		25.568	gpm	06/25/2002	2031	20	ED	
M_SP89	36	89	FLD	06252002	06252002	66	Turbidity		0.25	NTU	06/25/2002	2031	20	ED	
M_SP89	36	89	FLD	09272002	09272002	1	Water Temperature		6.7	Deg. C	09/27/2002	1832	20	AB	
M_SP89	36	89	FLD	09272002	09272002	2	pH		7.54	pH units	09/27/2002	1832	20	AB	
M_SP89	36	89	FLD	09272002	09272002	4	Spec. Conductivity		560	umhos/cm	09/27/2002	1832	20	AB	
M_SP89	36	89	FLD	09272002	09272002	11	Flow		26.826	gpm	09/27/2002	1832	20	AB	
M_SP89	36	89	FLD	09272002	09272002	66	Turbidity		0.00	NTU	09/27/2002	1832	20	AB	
M_SP89	36	89	FLD	05212003	05212003	1	Water Temperature		6.5	Deg. C	05/21/2003	1730	20	AB	

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M_SP89	36	89	FLD	05212003	05212003	2	pH		7.46	pH units	05/21/2003	1730	20	AB	
M_SP89	36	89	FLD	05212003	05212003	4	Spec. Conductivity		597	umhos/cm	05/21/2003	1730	20	AB	
M_SP89	36	89	FLD	05212003	05212003	11	Flow		27.726	gpm	05/21/2003	1730	20	AB	
M_SP89	36	89	FLD	05212003	05212003	66	Turbidity		0.16	NTU	05/21/2003	1730	20	AB	
M_SP89	36	89	FLD	09262003	09262003	1	Water Temperature		6.8	Deg. C	09/26/2003	1745	20	AB	
M_SP89	36	89	FLD	09262003	09262003	2	pH		7.47	pH units	09/26/2003	1745	20	AB	
M_SP89	36	89	FLD	09262003	09262003	4	Spec. Conductivity		360	umhos/cm	09/26/2003	1745	20	AB	
M_SP89	36	89	FLD	09262003	09262003	11	Flow		27.933	gpm	09/26/2003	1745	20	AB	
M_SP89	36	89	FLD	09262003	09262003	66	Turbidity		0.00	NTU	09/26/2003	1745	20	AB	
M_SP89	36	89	FLD	06042004	06042004	1	Water Temperature		6.5	Deg. C	06/04/2004	1211	20	AB	
M_SP89	36	89	FLD	06042004	06042004	2	pH		7.45	pH units	06/04/2004	1211	20	AB	
M_SP89	36	89	FLD	06042004	06042004	4	Spec. Conductivity		371	umhos/cm	06/04/2004	1211	20	AB	
M_SP89	36	89	FLD	06042004	06042004	11	Flow		27.356	gpm	06/04/2004	1211	20	AB	
M_SP89	36	89	FLD	06042004	06042004	66	Turbidity		0.10	NTU	06/04/2004	1211	20	AB	
M_SP90	36	90	FLD	06262002	06262002	1	Water Temperature		5.0	Deg. C	06/26/2002	0901	20	ED	
M_SP90	36	90	FLD	06262002	06262002	2	pH		6.65	pH units	06/26/2002	0901	20	ED	
M_SP90	36	90	FLD	06262002	06262002	4	Spec. Conductivity		637	umhos/cm	06/26/2002	0901	20	ED	
M_SP90	36	90	FLD	06262002	06262002	11	Flow		8.679	gpm	06/26/2002	0901	20	ED	
M_SP90	36	90	FLD	06262002	06262002	66	Turbidity		5.56	NTU	06/26/2002	0901	20	ED	
M_SP90	36	90	FLD	09272002	09272002	1	Water Temperature		6.3	Deg. C	09/27/2002	1740	20	AB	
M_SP90	36	90	FLD	09272002	09272002	2	pH		7.56	pH units	09/27/2002	1740	20	AB	
M_SP90	36	90	FLD	09272002	09272002	4	Spec. Conductivity		676	umhos/cm	09/27/2002	1740	20	AB	
M_SP90	36	90	FLD	09272002	09272002	11	Flow		7.785	gpm	09/27/2002	1740	20	AB	
M_SP90	36	90	FLD	09272002	09272002	66	Turbidity		0.38	NTU	09/27/2002	1740	20	AB	
M_SP90	36	90	FLD	05212003	05212003	1	Water Temperature		4.6	Deg. C	05/21/2003	1430	20	AB	
M_SP90	36	90	FLD	05212003	05212003	2	pH		7.60	pH units	05/21/2003	1430	20	AB	
M_SP90	36	90	FLD	05212003	05212003	4	Spec. Conductivity		508	umhos/cm	05/21/2003	1430	20	AB	
M_SP90	36	90	FLD	05212003	05212003	11	Flow		8.663	gpm	05/21/2003	1430	20	AB	
M_SP90	36	90	FLD	05212003	05212003	66	Turbidity		0.72	NTU	05/21/2003	1430	20	AB	
M_SP90	36	90	FLD	09262003	09262003	1	Water Temperature		6.1	Deg. C	09/26/2003	1540	20	AB	
M_SP90	36	90	FLD	09262003	09262003	2	pH		7.71	pH units	09/26/2003	1540	20	AB	
M_SP90	36	90	FLD	09262003	09262003	4	Spec. Conductivity		396	umhos/cm	09/26/2003	1540	20	AB	
M_SP90	36	90	FLD	09262003	09262003	11	Flow		12.699	gpm	09/26/2003	1540	20	AB	
M_SP90	36	90	FLD	09262003	09262003	66	Turbidity		16.40	NTU	09/26/2003	1540	20	AB	
M_SP90	36	90	FLD	06042004	06042004	1	Water Temperature		5.2	Deg. C	06/04/2004	0950	20	AB	
M_SP90	36	90	FLD	06042004	06042004	2	pH		7.60	pH units	06/04/2004	0950	20	AB	
M_SP90	36	90	FLD	06042004	06042004	4	Spec. Conductivity		428	umhos/cm	06/04/2004	0950	20	AB	
M_SP90	36	90	FLD	06042004	06042004	11	Flow		12.545	gpm	06/04/2004	0950	20	AB	
M_SP90	36	90	FLD	06042004	06042004	66	Turbidity		0.39	NTU	06/04/2004	0950	20	AB	
M_SP91	36	91	FLD	06262002	06262002	1	Water Temperature		8.1	Deg. C	06/26/2002	1430	20	ED	
M_SP91	36	91	FLD	06262002	06262002	2	pH		7.04	pH units	06/26/2002	1430	20	ED	
M_SP91	36	91	FLD	06262002	06262002	4	Spec. Conductivity		176	umhos/cm	06/26/2002	1430	20	ED	
M_SP91	36	91	FLD	06262002	06262002	11	Flow		1.669	gpm	06/26/2002	1430	20	ED	
M_SP91	36	91	FLD	06262002	06262002	66	Turbidity		0.20	NTU	06/26/2002	1430	20	ED	
M_SP91	36	91	FLD	09272002	09272002	1	Water Temperature		6.8	Deg. C	09/27/2002	1115	20	AB	
M_SP91	36	91	FLD	09272002	09272002	2	pH		7.50	pH units	09/27/2002	1115	20	AB	
M_SP91	36	91	FLD	09272002	09272002	4	Spec. Conductivity		296	umhos/cm	09/27/2002	1115	20	AB	
M_SP91	36	91	FLD	09272002	09272002	11	Flow		1.516	gpm	09/27/2002	1115	20	AB	
M_SP91	36	91	FLD	09272002	09272002	66	Turbidity		3.05	NTU	09/27/2002	1115	20	AB	
M_SP91	36	91	FLD	05192003	05192003	1	Water Temperature		6.2	Deg. C	05/19/2003	1950	20	MM	
M_SP91	36	91	FLD	05192003	05192003	2	pH		7.35	pH units	05/19/2003	1950	20	MM	
M_SP91	36	91	FLD	05192003	05192003	4	Spec. Conductivity		185	umhos/cm	05/19/2003	1950	20	MM	
M_SP91	36	91	FLD	05192003	05192003	11	Flow		2.076	gpm	05/19/2003	1950	20	MM	
M_SP91	36	91	FLD	05192003	05192003	66	Turbidity		7.30	NTU	05/19/2003	1950	20	MM	
M_SP91	36	91	FLD	10082003	10082003	1	Water Temperature		6.6	Deg. C	10/08/2003	1615	20	AB	
M_SP91	36	91	FLD	10082003	10082003	2	pH		7.19	pH units	10/08/2003	1615	20	AB	
M_SP91	36	91	FLD	10082003	10082003	4	Spec. Conductivity		299	umhos/cm	10/08/2003	1615	20	AB	
M_SP91	36	91	FLD	10082003	10082003	11	Flow		2.021	gpm	10/08/2003	1615	20	AB	
M_SP91	36	91	FLD	10082003	10082003	66	Turbidity		3.78	NTU	10/08/2003	1615	20	AB	
M_SP91	36	91	FLD	06052004	06052004	1	Water Temperature		6.1	Deg. C	06/05/2004	1228	20	AB	
M_SP91	36	91	FLD	06052004	06052004	2	pH		7.10	pH units	06/05/2004	1228	20	AB	
M_SP91	36	91	FLD	06052004	06052004	4	Spec. Conductivity		182	umhos/cm	06/05/2004	1228	20	AB	
M_SP91	36	91	FLD	06052004	06052004	11	Flow		1.984	gpm	06/05/2004	1228	20	AB	
M_SP91	36	91	FLD	06052004	06052004	66	Turbidity		0.00	NTU	06/05/2004	1228	20	AB	
M_SP93	36	93	FLD	06252002	06252002	1	Water Temperature		11.9	Deg. C	06/25/2002	1615	20	SC	
M_SP93	36	93	FLD	06252002	06252002	2	pH		7.28	pH units	06/25/2002	1615	20	SC	
M_SP93	36	93	FLD	06252002	06252002	4	Spec. Conductivity		196	umhos/cm	06/25/2002	1615	20	SC	
M_SP93	36	93	FLD	06252002	06252002	11	Flow		0.210	gpm	06/25/2002	1615	20	SC	
M_SP93	36	93	FLD	06252002	06252002	66	Turbidity		4.01	NTU	06/25/2002	1615	20	SC	
M_SP93	36	93	FLD	09272002	09272002	1	Water Temperature		7.9	Deg. C	09/27/2002	1450	20	AB	
M_SP93	36	93	FLD	09272002	09272002	2	pH		7.33	pH units	09/27/2002	1450	20	AB	
M_SP93	36	93	FLD	09272002	09272002	4	Spec. Conductivity		327	umhos/cm	09/27/2002	1450	20	AB	
M_SP93	36	93	FLD	09272002	09272002	11	Flow		0.476	gpm	09/27/2002	1450	20	AB	
M_SP93	36	93	FLD	09272002	09272002	66	Turbidity		0.00	NTU	09/27/2002	1450	20	AB	
M_SP93	36	93	FLD	05192003	05192003	1	Water Temperature		6.5	Deg. C	05/19/2003	1927	20	AB	
M_SP93	36	93	FLD	05192003	05192003	2	pH		7.08	pH units	05/19/2003	1927	20	AB	
M_SP93	36	93	FLD	05192003	05192003	4	Spec. Conductivity		321	umhos/cm	05/19/2003	1927	20	AB	

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M_SP93	36	93	FLD	05192003	05192003	11	Flow		0.252	gpm	05/19/2003	1927	20	AB	
M_SP93	36	93	FLD	05192003	05192003	66	Turbidity		0.00	NTU	05/19/2003	1927	20	AB	
M_SP93	36	93	FLD	09262003	09262003	1	Water Temperature		8.3	Deg. C	09/26/2003	1145	20	AB	
M_SP93	36	93	FLD	09262003	09262003	2	pH		7.38	pH units	09/26/2003	1145	20	AB	
M_SP93	36	93	FLD	09262003	09262003	4	Spec. Conductivity		171	umhos/cm	09/26/2003	1145	20	AB	
M_SP93	36	93	FLD	09262003	09262003	11	Flow		0.443	gpm	09/26/2003	1145	20	AB	
M_SP93	36	93	FLD	09262003	09262003	66	Turbidity		0.34	NTU	09/26/2003	1145	20	AB	
M_SP93	36	93	NOF	06042004	06042004						06/04/2004	1432	10	AB	
M_SP94	36	94	FLD	06252002	06252002	1	Water Temperature		12.3	Deg. C	06/25/2002	1655	20	SC	
M_SP94	36	94	FLD	06252002	06252002	2	pH		7.18	pH units	06/25/2002	1655	20	SC	
M_SP94	36	94	FLD	06252002	06252002	4	Spec. Conductivity		165	umhos/cm	06/25/2002	1655	20	SC	
M_SP94	36	94	FLD	06252002	06252002	11	Flow		0.543	gpm	06/25/2002	1655	20	SC	
M_SP94	36	94	FLD	06252002	06252002	66	Turbidity		0.35	NTU	06/25/2002	1655	20	SC	
M_SP94	36	94	FLD	09272002	09272002	1	Water Temperature		7.5	Deg. C	09/27/2002	1402	20	AB	
M_SP94	36	94	FLD	09272002	09272002	2	pH		7.28	pH units	09/27/2002	1402	20	AB	
M_SP94	36	94	FLD	09272002	09272002	4	Spec. Conductivity		267	umhos/cm	09/27/2002	1402	20	AB	
M_SP94	36	94	FLD	09272002	09272002	11	Flow		0.624	gpm	09/27/2002	1402	20	AB	
M_SP94	36	94	FLD	09272002	09272002	66	Turbidity		0.00	NTU	09/27/2002	1402	20	AB	
M_SP94	36	94	FLD	05192003	05192003	1	Water Temperature		4.2	Deg. C	05/19/2003	2039	20	AB	
M_SP94	36	94	FLD	05192003	05192003	2	pH		6.92	pH units	05/19/2003	2039	20	AB	
M_SP94	36	94	FLD	05192003	05192003	4	Spec. Conductivity		272	umhos/cm	05/19/2003	2039	20	AB	
M_SP94	36	94	FLD	05192003	05192003	11	Flow		0.660	gpm	05/19/2003	2039	20	AB	
M_SP94	36	94	FLD	05192003	05192003	66	Turbidity		0.51	NTU	05/19/2003	2039	20	AB	
M_SP94	36	94	FLD	09262003	09262003	1	Water Temperature		7.4	Deg. C	09/26/2003	1255	20	AB	
M_SP94	36	94	FLD	09262003	09262003	2	pH		7.07	pH units	09/26/2003	1255	20	AB	
M_SP94	36	94	FLD	09262003	09262003	4	Spec. Conductivity		159	umhos/cm	09/26/2003	1255	20	AB	
M_SP94	36	94	FLD	09262003	09262003	11	Flow		0.722	gpm	09/26/2003	1255	20	AB	
M_SP94	36	94	FLD	09262003	09262003	66	Turbidity		0.50	NTU	09/26/2003	1255	20	AB	
M_SP94	36	94	NOF	06042004	06042004						06/04/2004	1426	10	AB	
M_SP95	36	95	FLD	06262002	06262002	1	Water Temperature		6.1	Deg. C	06/26/2002	1100	20	SC	
M_SP95	36	95	FLD	06262002	06262002	2	pH		8.05	pH units	06/26/2002	1100	20	SC	
M_SP95	36	95	FLD	06262002	06262002	4	Spec. Conductivity		241	umhos/cm	06/26/2002	1100	20	SC	
M_SP95	36	95	FLD	06262002	06262002	11	Flow		1.482	gpm	06/26/2002	1100	20	SC	
M_SP95	36	95	FLD	06262002	06262002	66	Turbidity		0.87	NTU	06/26/2002	1100	20	SC	
M_SP95	36	95	FLD	09282002	09282002	1	Water Temperature		4.9	Deg. C	09/28/2002	1146	20	AB	
M_SP95	36	95	FLD	09282002	09282002	2	pH		7.39	pH units	09/28/2002	1146	20	AB	
M_SP95	36	95	FLD	09282002	09282002	4	Spec. Conductivity		469	umhos/cm	09/28/2002	1146	20	AB	
M_SP95	36	95	FLD	09282002	09282002	11	Flow		1.745	gpm	09/28/2002	1146	20	AB	
M_SP95	36	95	FLD	09282002	09282002	66	Turbidity		0.00	NTU	09/28/2002	1146	20	AB	
M_SP95	36	95	FLD	05212003	05212003	1	Water Temperature		1.2	Deg. C	05/21/2003	1005	20	AB	
M_SP95	36	95	FLD	05212003	05212003	2	pH		8.29	pH units	05/21/2003	1005	20	AB	
M_SP95	36	95	FLD	05212003	05212003	4	Spec. Conductivity		Error	umhos/cm	05/21/2003	1005	20	AB	
M_SP95	36	95	FLD	05212003	05212003	11	Flow		3.240	gpm	05/21/2003	1005	20	AB	
M_SP95	36	95	FLD	05212003	05212003	66	Turbidity		0.08	NTU	05/21/2003	1005	20	AB	
M_SP95	36	95	FLD	10082003	10082003	1	Water Temperature		5.0	Deg. C	10/08/2003	1810	20	AB	
M_SP95	36	95	FLD	10082003	10082003	2	pH		8.25	pH units	10/08/2003	1810	20	AB	
M_SP95	36	95	FLD	10082003	10082003	4	Spec. Conductivity		471	umhos/cm	10/08/2003	1810	20	AB	
M_SP95	36	95	FLD	10082003	10082003	11	Flow		2.637	gpm	10/08/2003	1810	20	AB	
M_SP95	36	95	FLD	10082003	10082003	66	Turbidity		0.00	NTU	10/08/2003	1810	20	AB	
M_SP95	36	95	FLD	06052004	06052004	1	Water Temperature		3.9	Deg. C	06/05/2004	1114	20	AB	
M_SP95	36	95	FLD	06052004	06052004	2	pH		8.46	pH units	06/05/2004	1114	20	AB	
M_SP95	36	95	FLD	06052004	06052004	4	Spec. Conductivity		248	umhos/cm	06/05/2004	1114	20	AB	
M_SP95	36	95	FLD	06052004	06052004	11	Flow		3.306	gpm	06/05/2004	1114	20	AB	
M_SP95	36	95	FLD	06052004	06052004	66	Turbidity		0.12	NTU	06/05/2004	1114	20	AB	
M_SP96	36	96	FLD	06262002	06262002	1	Water Temperature		9.0	Deg. C	06/26/2002	1400	20	SC	
M_SP96	36	96	FLD	06262002	06262002	2	pH		7.50	pH units	06/26/2002	1400	20	SC	
M_SP96	36	96	FLD	06262002	06262002	4	Spec. Conductivity		250	umhos/cm	06/26/2002	1400	20	SC	
M_SP96	36	96	FLD	06262002	06262002	11	Flow		2.547	gpm	06/26/2002	1400	20	SC	
M_SP96	36	96	FLD	06262002	06262002	66	Turbidity		0.17	NTU	06/26/2002	1400	20	SC	
M_SP96	36	96	FLD	09272002	09272002	1	Water Temperature		7.9	Deg. C	09/27/2002	1032	20	AB	
M_SP96	36	96	FLD	09272002	09272002	2	pH		7.43	pH units	09/27/2002	1032	20	AB	
M_SP96	36	96	FLD	09272002	09272002	4	Spec. Conductivity		430	umhos/cm	09/27/2002	1032	20	AB	
M_SP96	36	96	FLD	09272002	09272002	11	Flow		2.542	gpm	09/27/2002	1032	20	AB	
M_SP96	36	96	FLD	09272002	09272002	66	Turbidity		0.00	NTU	09/27/2002	1032	20	AB	
M_SP96	36	96	FLD	05192003	05192003	1	Water Temperature		6.3	Deg. C	05/19/2003	1900	20	MM	
M_SP96	36	96	FLD	05192003	05192003	2	pH		7.40	pH units	05/19/2003	1900	20	MM	
M_SP96	36	96	FLD	05192003	05192003	4	Spec. Conductivity		175	umhos/cm	05/19/2003	1900	20	MM	
M_SP96	36	96	FLD	05192003	05192003	11	Flow		2.545	gpm	05/19/2003	1900	20	MM	
M_SP96	36	96	FLD	05192003	05192003	66	Turbidity		1.53	NTU	05/19/2003	1900	20	MM	
M_SP96	36	96	FLD	10082003	10082003	1	Water Temperature		7.8	Deg. C	10/08/2003	1527	20	AB	
M_SP96	36	96	FLD	10082003	10082003	2	pH		7.05	pH units	10/08/2003	1527	20	AB	
M_SP96	36	96	FLD	10082003	10082003	4	Spec. Conductivity		423	umhos/cm	10/08/2003	1527	20	AB	
M_SP96	36	96	FLD	10082003	10082003	11	Flow		2.453	gpm	10/08/2003	1527	20	AB	
M_SP96	36	96	FLD	10082003	10082003	66	Turbidity		0.65	NTU	10/08/2003	1527	20	AB	
M_SP96	36	96	FLD	06052004	06052004	1	Water Temperature		6.4	Deg. C	06/05/2004	1306	20	AB	
M_SP96	36	96	FLD	06052004	06052004	2	pH		7.22	pH units	06/05/2004	1306	20	AB	
M_SP96	36	96	FLD	06052004	06052004	4	Spec. Conductivity		188	umhos/cm	06/05/2004	1306	20	AB	

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M_SP96	36	96	FLD	06052004	06052004	11	Flow		2.317	gpm	06/05/2004	1306	20	AB	
M_SP96	36	96	FLD	06052004	06052004	66	Turbidity		0.22	NTU	06/05/2004	1306	20	AB	
M_SP97	36	97	FLD	09282002	09282002	1	Water Temperature		6.0	Deg. C	09/28/2002	1043	20	AB	
M_SP97	36	97	FLD	09282002	09282002	2	pH		7.25	pH units	09/28/2002	1043	20	AB	
M_SP97	36	97	FLD	09282002	09282002	4	Spec. Conductivity		451	umhos/cm	09/28/2002	1043	20	AB	
M_SP97	36	97	FLD	09282002	09282002	11	Flow		0.817	gpm	09/28/2002	1043	20	AB	
M_SP97	36	97	FLD	09282002	09282002	66	Turbidity		0.00	NTU	09/28/2002	1043	20	AB	
M_SP97	36	97	FLD	05212003	05212003	1	Water Temperature		1.2	Deg. C	05/21/2003	1110	20	AB	
M_SP97	36	97	FLD	05212003	05212003	2	pH		8.03	pH units	05/21/2003	1110	20	AB	
M_SP97	36	97	FLD	05212003	05212003	4	Spec. Conductivity		Error	umhos/cm	05/21/2003	1110	20	AB	
M_SP97	36	97	FLD	05212003	05212003	11	Flow		1.283	gpm	05/21/2003	1110	20	AB	
M_SP97	36	97	FLD	05212003	05212003	66	Turbidity		0.00	NTU	05/21/2003	1110	20	AB	
M_SP97	36	97	FLD	10082003	10082003	1	Water Temperature		6.2	Deg. C	10/08/2003	1725	20	AB	
M_SP97	36	97	FLD	10082003	10082003	2	pH		8.01	pH units	10/08/2003	1725	20	AB	
M_SP97	36	97	FLD	10082003	10082003	4	Spec. Conductivity		463	umhos/cm	10/08/2003	1725	20	AB	
M_SP97	36	97	FLD	10082003	10082003	11	Flow		0.888	gpm	10/08/2003	1725	20	AB	
M_SP97	36	97	FLD	10082003	10082003	66	Turbidity		2.48	NTU	10/08/2003	1725	20	AB	
M_SP97	36	97	FLD	06052004	06052004	1	Water Temperature		3.2	Deg. C	06/05/2004	1022	20	AB	
M_SP97	36	97	FLD	06052004	06052004	2	pH		8.29	pH units	06/05/2004	1022	20	AB	
M_SP97	36	97	FLD	06052004	06052004	4	Spec. Conductivity		247	umhos/cm	06/05/2004	1022	20	AB	
M_SP97	36	97	FLD	06052004	06052004	11	Flow		1.473	gpm	06/05/2004	1022	20	AB	
M_SP97	36	97	FLD	06052004	06052004	66	Turbidity		0.00	NTU	06/05/2004	1022	20	AB	
M_SP98	36	98	FLD	09272002	09272002	1	Water Temperature		7.6	Deg. C	09/27/2002	1513	20	AB	
M_SP98	36	98	FLD	09272002	09272002	2	pH		7.31	pH units	09/27/2002	1513	20	AB	
M_SP98	36	98	FLD	09272002	09272002	4	Spec. Conductivity		307	umhos/cm	09/27/2002	1513	20	AB	
M_SP98	36	98	FLD	09272002	09272002	11	Flow		0.150	gpm	09/27/2002	1513	20	AB	
M_SP98	36	98	FLD	09272002	09272002	66	Turbidity		0.02	NTU	09/27/2002	1513	20	AB	
M_SP98	36	98	FLD	05192003	05192003	1	Water Temperature		4.8	Deg. C	05/19/2003	2000	20	AB	
M_SP98	36	98	FLD	05192003	05192003	2	pH		7.10	pH units	05/19/2003	2000	20	AB	
M_SP98	36	98	FLD	05192003	05192003	4	Spec. Conductivity		304	umhos/cm	05/19/2003	2000	20	AB	
M_SP98	36	98	FLD	05192003	05192003	11	Flow		0.112	gpm	05/19/2003	2000	20	AB	
M_SP98	36	98	FLD	05192003	05192003	66	Turbidity		0.00	NTU	05/19/2003	2000	20	AB	
M_SP98	36	98	FLD	09262003	09262003	1	Water Temperature		7.5	Deg. C	09/26/2003	1220	20	AB	
M_SP98	36	98	FLD	09262003	09262003	2	pH		7.26	pH units	09/26/2003	1220	20	AB	
M_SP98	36	98	FLD	09262003	09262003	4	Spec. Conductivity		170	umhos/cm	09/26/2003	1220	20	AB	
M_SP98	36	98	FLD	09262003	09262003	11	Flow		0.183	gpm	09/26/2003	1220	20	AB	
M_SP98	36	98	FLD	09262003	09262003	66	Turbidity		1.59	NTU	09/26/2003	1220	20	AB	
M_SP98	36	98	NOF	06042004	06042004						06/04/2004	1428	10	AB	
M_SP99	36	99	FLD	09272002	09272002	1	Water Temperature		7.4	Deg. C	09/27/2002	1429	20	AB	
M_SP99	36	99	FLD	09272002	09272002	2	pH		7.26	pH units	09/27/2002	1429	20	AB	
M_SP99	36	99	FLD	09272002	09272002	4	Spec. Conductivity		272	umhos/cm	09/27/2002	1429	20	AB	
M_SP99	36	99	FLD	09272002	09272002	11	Flow		1.637	gpm	09/27/2002	1429	20	AB	
M_SP99	36	99	FLD	09272002	09272002	66	Turbidity		0.00	NTU	09/27/2002	1429	20	AB	
M_SP99	36	99	FLD	05192003	05192003	1	Water Temperature		4.6	Deg. C	05/19/2003	2105	20	AB	
M_SP99	36	99	FLD	05192003	05192003	2	pH		6.90	pH units	05/19/2003	2105	20	AB	
M_SP99	36	99	FLD	05192003	05192003	4	Spec. Conductivity		275	umhos/cm	05/19/2003	2105	20	AB	
M_SP99	36	99	FLD	05192003	05192003	11	Flow		1.757	gpm	05/19/2003	2105	20	AB	
M_SP99	36	99	FLD	05192003	05192003	66	Turbidity		0.89	NTU	05/19/2003	2105	20	AB	
M_SP99	36	99	FLD	09262003	09262003	1	Water Temperature		7.2	Deg. C	09/26/2003	1330	20	AB	
M_SP99	36	99	FLD	09262003	09262003	2	pH		6.99	pH units	09/26/2003	1330	20	AB	
M_SP99	36	99	FLD	09262003	09262003	4	Spec. Conductivity		158	umhos/cm	09/26/2003	1330	20	AB	
M_SP99	36	99	FLD	09262003	09262003	11	Flow		1.477	gpm	09/26/2003	1330	20	AB	
M_SP99	36	99	FLD	09262003	09262003	66	Turbidity		0.00	NTU	09/26/2003	1330	20	AB	
M_SP99	36	99	NOF	06042004	06042004						06/04/2004	1425	10	AB	
M_SP100	36	100	FLD	09272002	09272002	1	Water Temperature		6.8	Deg. C	09/27/2002	1509	20	ED	
M_SP100	36	100	FLD	09272002	09272002	2	pH		7.25	pH units	09/27/2002	1509	20	ED	
M_SP100	36	100	FLD	09272002	09272002	4	Spec. Conductivity		388	umhos/cm	09/27/2002	1509	20	ED	
M_SP100	36	100	FLD	09272002	09272002	11	Flow		0.774	gpm	09/27/2002	1509	20	ED	
M_SP100	36	100	FLD	09272002	09272002	66	Turbidity		0.20	NTU	09/27/2002	1509	20	ED	
M_SP100	36	100	FLD	05212003	05212003	1	Water Temperature		7.9	Deg. C	05/21/2003	1645	20	ED, MM	
M_SP100	36	100	FLD	05212003	05212003	2	pH		7.35	pH units	05/21/2003	1645	20	ED, MM	
M_SP100	36	100	FLD	05212003	05212003	4	Spec. Conductivity		373	umhos/cm	05/21/2003	1645	20	ED, MM	
M_SP100	36	100	FLD	05212003	05212003	11	Flow		0.840	gpm	05/21/2003	1645	20	ED, MM	
M_SP100	36	100	FLD	05212003	05212003	66	Turbidity		38.78	NTU	05/21/2003	1645	20	ED, MM	
M_SP100	36	100	FLD	10082003	10082003	1	Water Temperature		6.7	Deg. C	10/08/2003	1730	20	AB	
M_SP100	36	100	FLD	10082003	10082003	2	pH		7.38	pH units	10/08/2003	1730	20	AB	
M_SP100	36	100	FLD	10082003	10082003	4	Spec. Conductivity		292	umhos/cm	10/08/2003	1730	20	AB	
M_SP100	36	100	FLD	10082003	10082003	11	Flow		0.794	gpm	10/08/2003	1730	20	AB	
M_SP100	36	100	FLD	10082003	10082003	66	Turbidity		0.83	NTU	10/08/2003	1730	20	AB	
M_SP100	36	100	FLD	06052004	06052004	1	Water Temperature		9.4	Deg. C	06/05/2004	1108	20	ED	
M_SP100	36	100	FLD	06052004	06052004	2	pH		7.47	pH units	06/05/2004	1108	20	ED	
M_SP100	36	100	FLD	06052004	06052004	4	Spec. Conductivity		683	umhos/cm	06/05/2004	1108	20	ED	
M_SP100	36	100	FLD	06052004	06052004	11	Flow		1.076	gpm	06/05/2004	1108	20	ED	
M_SP100	36	100	FLD	06052004	06052004	66	Turbidity		0.51	NTU	06/05/2004	1108	20	ED	
M_SP101	36	101	FLD	09282002	09282002	1	Water Temperature		6.8	Deg. C	09/28/2002	1815	20	AB	
M_SP101	36	101	FLD	09282002	09282002	2	pH		7.06	pH units	09/28/2002	1815	20	AB	
M_SP101	36	101	FLD	09282002	09282002	4	Spec. Conductivity		492	umhos/cm	09/28/2002	1815	20	AB	

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M_SP101	36	101	FLD	09282002	09282002	11	Flow		1.018	gpm	09/28/2002	1815	20	AB	
M_SP101	36	101	FLD	09282002	09282002	66	Turbidity		0.20	NTU	09/28/2002	1815	20	AB	
M_SP101	36	101	FLD	06052003	06052003	1	Water Temperature		8.3	Deg. C	06/05/2003	1228	20	ED	
M_SP101	36	101	FLD	06052003	06052003	2	pH		7.61	pH units	06/05/2003	1228	20	ED	
M_SP101	36	101	FLD	06052003	06052003	4	Spec. Conductivity		502	umhos/cm	06/05/2003	1228	20	ED	
M_SP101	36	101	FLD	06052003	06052003	11	Flow		2.353	gpm	06/05/2003	1228	20	ED	
M_SP101	36	101	FLD	06052003	06052003	66	Turbidity		12.12	NTU	06/05/2003	1228	20	ED	
M_SP101	36	101	FLD	09242003	09242003	1	Water Temperature		6.6	Deg. C	09/24/2003	1105	20	AB	
M_SP101	36	101	FLD	09242003	09242003	2	pH		7.54	pH units	09/24/2003	1105	20	AB	
M_SP101	36	101	FLD	09242003	09242003	4	Spec. Conductivity		255	umhos/cm	09/24/2003	1105	20	AB	
M_SP101	36	101	FLD	09242003	09242003	11	Flow		1.023	gpm	09/24/2003	1105	20	AB	
M_SP101	36	101	FLD	09242003	09242003	66	Turbidity		0.64	NTU	09/24/2003	1105	20	AB	
M_SP101	36	101	FLD	06152004	06152004	1	Water Temperature		6.1	Deg. C	06/15/2004	0952	20	AB	
M_SP101	36	101	FLD	06152004	06152004	2	pH		7.52	pH units	06/15/2004	0952	20	AB	
M_SP101	36	101	FLD	06152004	06152004	4	Spec. Conductivity		218	umhos/cm	06/15/2004	0952	20	AB	
M_SP101	36	101	FLD	06152004	06152004	11	Flow		1.352	gpm	06/15/2004	0952	20	AB	
M_SP101	36	101	FLD	06152004	06152004	66	Turbidity		0.44	NTU	06/15/2004	0952	20	AB	
M_SP102	36	102	FLD	10082002	10082002	1	Water Temperature		8.6	Deg. C	10/08/2002	1559	20	AB	
M_SP102	36	102	FLD	10082002	10082002	2	pH		7.68	pH units	10/08/2002	1559	20	AB	
M_SP102	36	102	FLD	10082002	10082002	4	Spec. Conductivity		498	umhos/cm	10/08/2002	1559	20	AB	
M_SP102	36	102	FLD	10082002	10082002	11	Flow		0.253	gpm	10/08/2002	1559	20	AB	
M_SP102	36	102	FLD	10082002	10082002	66	Turbidity		0.68	NTU	10/08/2002	1559	20	AB	
M_SP102	36	102	FLD	06032003	06032003	1	Water Temperature		6.9	Deg. C	06/03/2003	1121	20	MM	
M_SP102	36	102	FLD	06032003	06032003	2	pH		7.50	pH units	06/03/2003	1121	20	MM	
M_SP102	36	102	FLD	06032003	06032003	4	Spec. Conductivity		283	umhos/cm	06/03/2003	1121	20	MM	
M_SP102	36	102	FLD	06032003	06032003	11	Flow		2.679	gpm	06/03/2003	1121	20	MM	
M_SP102	36	102	FLD	06032003	06032003	66	Turbidity		0.30	NTU	06/03/2003	1121	20	MM	
M_SP102	36	102	NOF	09252003	09252003						09/25/2003	1735	10	RG	
M_SP102	36	102	FLD	06152004	06152004	1	Water Temperature		7.1	Deg. C	06/15/2004	1220	20	RG	
M_SP102	36	102	FLD	06152004	06152004	2	pH		7.38	pH units	06/15/2004	1220	20	RG	
M_SP102	36	102	FLD	06152004	06152004	4	Spec. Conductivity		477	umhos/cm	06/15/2004	1220	20	RG	
M_SP102	36	102	FLD	06152004	06152004	11	Flow		0.869	gpm	06/15/2004	1220	20	RG	
M_SP102	36	102	FLD	06152004	06152004	66	Turbidity		0.12	NTU	06/15/2004	1220	20	RG	
M_SP103	36	103	FLD	05212003	05212003	1	Water Temperature		10.3	Deg. C	05/21/2003	1751	20	ED, MM	
M_SP103	36	103	FLD	05212003	05212003	2	pH		8.28	pH units	05/21/2003	1751	20	ED, MM	
M_SP103	36	103	FLD	05212003	05212003	4	Spec. Conductivity		377	umhos/cm	05/21/2003	1751	20	ED, MM	
M_SP103	36	103	FLD	05212003	05212003	11	Flow		1.193	gpm	05/21/2003	1751	20	ED, MM	
M_SP103	36	103	FLD	05212003	05212003	66	Turbidity		35.67	NTU	05/21/2003	1751	20	ED, MM	
M_SP103	36	103	FLD	10082003	10082003	1	Water Temperature		16.5	Deg. C	10/08/2003	1440	20	RG	
M_SP103	36	103	FLD	10082003	10082003	2	pH		8.27	pH units	10/08/2003	1440	20	RG	
M_SP103	36	103	FLD	10082003	10082003	4	Spec. Conductivity		416	umhos/cm	10/08/2003	1440	20	RG	
M_SP103	36	103	FLD	10082003	10082003	11	Flow		0.939	gpm	10/08/2003	1440	20	RG	
M_SP103	36	103	FLD	10082003	10082003	66	Turbidity		1.23	NTU	10/08/2003	1440	20	RG	
M_SP103	36	103	FLD	06052004	06052004	1	Water Temperature		9.2	Deg. C	06/05/2004	1238	20	ED	
M_SP103	36	103	FLD	06052004	06052004	2	pH		7.67	pH units	06/05/2004	1238	20	ED	
M_SP103	36	103	FLD	06052004	06052004	4	Spec. Conductivity		706	umhos/cm	06/05/2004	1238	20	ED	
M_SP103	36	103	FLD	06052004	06052004	11	Flow		1.506	gpm	06/05/2004	1238	20	ED	
M_SP103	36	103	FLD	06052004	06052004	66	Turbidity		0.12	NTU	06/05/2004	1238	20	ED	
M_SP104	36	104	FLD	05212003	05212003	1	Water Temperature		11.5	Deg. C	05/21/2003	1751	20	ED, MM	
M_SP104	36	104	FLD	05212003	05212003	2	pH		8.51	pH units	05/21/2003	1751	20	ED, MM	
M_SP104	36	104	FLD	05212003	05212003	4	Spec. Conductivity		327	umhos/cm	05/21/2003	1751	20	ED, MM	
M_SP104	36	104	FLD	05212003	05212003	11	Flow		0.115	gpm	05/21/2003	1751	20	ED, MM	
M_SP104	36	104	FLD	05212003	05212003	66	Turbidity		12.51	NTU	05/21/2003	1751	20	ED, MM	
M_SP104	36	104	NOF	10082003	10082003						10/08/2003	1430	10	RG	
M_SP104	36	104	FLD	06052004	06052004	1	Water Temperature		20.4	Deg. C	06/05/2004	1256	20	ED	
M_SP104	36	104	FLD	06052004	06052004	2	pH		8.26	pH units	06/05/2004	1256	20	ED	
M_SP104	36	104	FLD	06052004	06052004	4	Spec. Conductivity		686	umhos/cm	06/05/2004	1256	20	ED	
M_SP104	36	104	FLD	06052004	06052004	11	Flow		0.382	gpm	06/05/2004	1256	20	ED	
M_SP104	36	104	FLD	06052004	06052004	66	Turbidity		2.75	NTU	06/05/2004	1256	20	ED	
M_SP105	36	105	FLD	05212003	05212003	1	Water Temperature		8.0	Deg. C	05/21/2003	1831	20	ED, MM	
M_SP105	36	105	FLD	05212003	05212003	2	pH		8.18	pH units	05/21/2003	1831	20	ED, MM	
M_SP105	36	105	FLD	05212003	05212003	4	Spec. Conductivity		363	umhos/cm	05/21/2003	1831	20	ED, MM	
M_SP105	36	105	FLD	05212003	05212003	11	Flow		0.795	gpm	05/21/2003	1831	20	ED, MM	
M_SP105	36	105	FLD	05212003	05212003	66	Turbidity		18.20	NTU	05/21/2003	1831	20	ED, MM	
M_SP105	36	105	FLD	10082003	10082003	1	Water Temperature		12.8	Deg. C	10/08/2003	1405	20	RG	
M_SP105	36	105	FLD	10082003	10082003	2	pH		8.09	pH units	10/08/2003	1405	20	RG	
M_SP105	36	105	FLD	10082003	10082003	4	Spec. Conductivity		381	umhos/cm	10/08/2003	1405	20	RG	
M_SP105	36	105	FLD	10082003	10082003	11	Flow		0.617	gpm	10/08/2003	1405	20	RG	
M_SP105	36	105	FLD	10082003	10082003	66	Turbidity		0.00	NTU	10/08/2003	1405	20	RG	
M_SP105	36	105	FLD	06052004	06052004	1	Water Temperature		10.3	Deg. C	06/05/2004	1414	20	ED	
M_SP105	36	105	FLD	06052004	06052004	2	pH		7.78	pH units	06/05/2004	1414	20	ED	
M_SP105	36	105	FLD	06052004	06052004	4	Spec. Conductivity		696	umhos/cm	06/05/2004	1414	20	ED	
M_SP105	36	105	FLD	06052004	06052004	11	Flow		0.945	gpm	06/05/2004	1414	20	ED	
M_SP105	36	105	FLD	06052004	06052004	66	Turbidity		0.35	NTU	06/05/2004	1414	20	ED	
M_SP106	36	106	FLD	05212003	05212003	1	Water Temperature		4.7	Deg. C	05/21/2003	1950	20	ED, MM	
M_SP106	36	106	FLD	05212003	05212003	2	pH		7.84	pH units	05/21/2003	1950	20	ED, MM	
M_SP106	36	106	FLD	05212003	05212003	4	Spec. Conductivity		451	umhos/cm	05/21/2003	1950	20	ED, MM	

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Spring/Stre	DO(	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	Sam	Sampler's	Comments
M_SP106	36	106	FLD	05212003	05212003	11	Flow		0.685	gpm	05/21/2003	1950	20	ED, MM	
M_SP106	36	106	FLD	05212003	05212003	66	Turbidity		9.42	NTU	05/21/2003	1950	20	ED, MM	
M_SP106	36	106	FLD	10082003	10082003	1	Water Temperature		7.3	Deg. C	10/08/2003	1215	20	RG	
M_SP106	36	106	FLD	10082003	10082003	2	pH		7.68	pH units	10/08/2003	1215	20	RG	
M_SP106	36	106	FLD	10082003	10082003	4	Spec. Conductivity		430	umhos/cm	10/08/2003	1215	20	RG	
M_SP106	36	106	FLD	10082003	10082003	11	Flow		1.095	gpm	10/08/2003	1215	20	RG	
M_SP106	36	106	FLD	10082003	10082003	66	Turbidity		6.80	NTU	10/08/2003	1215	20	RG	
M_SP106	36	106	FLD	06052004	06052004	1	Water Temperature		7.6	Deg. C	06/05/2004	1626	20	ED	
M_SP106	36	106	FLD	06052004	06052004	2	pH		7.70	pH units	06/05/2004	1626	20	ED	
M_SP106	36	106	FLD	06052004	06052004	4	Spec. Conductivity		878	umhos/cm	06/05/2004	1626	20	ED	
M_SP106	36	106	FLD	06052004	06052004	11	Flow		0.476	gpm	06/05/2004	1626	20	ED	
M_SP106	36	106	FLD	06052004	06052004	66	Turbidity		116.00	NTU	06/05/2004	1626	20	ED	
M_SP107	36	107	FLD	05242002	05242002	1	Water Temperature		9.3	Deg. C	05/24/2002	1510	20	SC	
M_SP107	36	107	FLD	05242002	05242002	2	pH		7.60	pH units	05/24/2002	1510	20	SC	
M_SP107	36	107	FLD	05242002	05242002	4	Spec. Conductivity		314	umhos/cm	05/24/2002	1510	20	SC	
M_SP107	36	107	FLD	05242002	05242002	11	Flow		4.981	gpm	05/24/2002	1510	20	SC	
M_SP107	36	107	FLD	05242002	05242002	66	Turbidity		0.00	NTU	05/24/2002	1510	20	SC	
M_SP107	36	107	FLD	06032003	06032003	1	Water Temperature		6.8	Deg. C	06/03/2003	0949	20	MM	
M_SP107	36	107	FLD	06032003	06032003	2	pH		7.58	pH units	06/03/2003	0949	20	MM	
M_SP107	36	107	FLD	06032003	06032003	4	Spec. Conductivity		305	umhos/cm	06/03/2003	0949	20	MM	
M_SP107	36	107	FLD	06032003	06032003	11	Flow		40.650	gpm	06/03/2003	0949	20	MM	
M_SP107	36	107	FLD	06032003	06032003	66	Turbidity		0.05	NTU	06/03/2003	0949	20	MM	
M_SP107	36	107	FLD	09252003	09252003	1	Water Temperature		7.5	Deg. C	09/25/2003	1625	20	RG	
M_SP107	36	107	FLD	09252003	09252003	2	pH		7.32	pH units	09/25/2003	1625	20	RG	
M_SP107	36	107	FLD	09252003	09252003	4	Spec. Conductivity		522	umhos/cm	09/25/2003	1625	20	RG	
M_SP107	36	107	FLD	09252003	09252003	11	Flow		35.419	gpm	09/25/2003	1625	20	RG	
M_SP107	36	107	FLD	09252003	09252003	66	Turbidity		0.00	NTU	09/25/2003	1625	20	RG	
M_SP107	36	107	FLD	06152004	06152004	1	Water Temperature		7.8	Deg. C	06/15/2004	1125	20	RG	
M_SP107	36	107	FLD	06152004	06152004	2	pH		7.69	pH units	06/15/2004	1125	20	RG	
M_SP107	36	107	FLD	06152004	06152004	4	Spec. Conductivity		450	umhos/cm	06/15/2004	1125	20	RG	
M_SP107	36	107	FLD	06152004	06152004	11	Flow		28.302	gpm	06/15/2004	1125	20	RG	
M_SP107	36	107	FLD	06152004	06152004	66	Turbidity		0.18	NTU	06/15/2004	1125	20	RG	
M_SP108	36	108	FLD	06032003	06032003	1	Water Temperature		8.3	Deg. C	06/03/2003	1234	20	MM	
M_SP108	36	108	FLD	06032003	06032003	2	pH		8.10	pH units	06/03/2003	1234	20	MM	
M_SP108	36	108	FLD	06032003	06032003	4	Spec. Conductivity		298	umhos/cm	06/03/2003	1234	20	MM	
M_SP108	36	108	FLD	06032003	06032003	11	Flow		0.390	gpm	06/03/2003	1234	20	MM	
M_SP108	36	108	FLD	06032003	06032003	66	Turbidity		3.20	NTU	06/03/2003	1234	20	MM	
M_SP108	36	108	FLD	09252003	09252003	1	Water Temperature		10.9	Deg. C	09/25/2003	1750	20	RG	
M_SP108	36	108	FLD	09252003	09252003	2	pH		8.12	pH units	09/25/2003	1750	20	RG	
M_SP108	36	108	FLD	09252003	09252003	4	Spec. Conductivity		454	umhos/cm	09/25/2003	1750	20	RG	
M_SP108	36	108	FLD	09252003	09252003	11	Flow		0.416	gpm	09/25/2003	1750	20	RG	
M_SP108	36	108	FLD	09252003	09252003	66	Turbidity		22.90	NTU	09/25/2003	1750	20	RG	
M_SP108	36	108	FLD	06152004	06152004	1	Water Temperature		13.5	Deg. C	06/15/2004	1315	20	RG	
M_SP108	36	108	FLD	06152004	06152004	2	pH		7.84	pH units	06/15/2004	1315	20	RG	
M_SP108	36	108	FLD	06152004	06152004	4	Spec. Conductivity		465	umhos/cm	06/15/2004	1315	20	RG	
M_SP108	36	108	FLD	06152004	06152004	11	Flow		0.334	gpm	06/15/2004	1315	20	RG	
M_SP108	36	108	FLD	06152004	06152004	66	Turbidity		7.33	NTU	06/15/2004	1315	20	RG	
M_SP109	36	109	FLD	06042003	06042003	1	Water Temperature		7.1	Deg. C	06/04/2003	1703	20	MM	
M_SP109	36	109	FLD	06042003	06042003	2	pH		7.82	pH units	06/04/2003	1703	20	MM	
M_SP109	36	109	FLD	06042003	06042003	4	Spec. Conductivity		314	umhos/cm	06/04/2003	1703	20	MM	
M_SP109	36	109	FLD	06042003	06042003	11	Flow		0.809	gpm	06/04/2003	1703	20	MM	
M_SP109	36	109	FLD	06042003	06042003	66	Turbidity		1.49	NTU	06/04/2003	1703	20	MM	
M_SP109	36	109	FLD	09232003	09232003	1	Water Temperature		7.9	Deg. C	09/23/2003	1735	20	AB	
M_SP109	36	109	FLD	09232003	09232003	2	pH		7.77	pH units	09/23/2003	1735	20	AB	
M_SP109	36	109	FLD	09232003	09232003	4	Spec. Conductivity		318	umhos/cm	09/23/2003	1735	20	AB	
M_SP109	36	109	FLD	09232003	09232003	11	Flow		0.704	gpm	09/23/2003	1735	20	AB	
M_SP109	36	109	FLD	09232003	09232003	66	Turbidity		0.00	NTU	09/23/2003	1735	20	AB	
M_SP109	36	109	FLD	06162004	06162004	1	Water Temperature		6.6	Deg. C	06/16/2004	1721	20	AB	
M_SP109	36	109	FLD	06162004	06162004	2	pH		7.84	pH units	06/16/2004	1721	20	AB	
M_SP109	36	109	FLD	06162004	06162004	4	Spec. Conductivity		364	umhos/cm	06/16/2004	1721	20	AB	
M_SP109	36	109	FLD	06162004	06162004	11	Flow		2.491	gpm	06/16/2004	1721	20	AB	
M_SP109	36	109	FLD	06162004	06162004	66	Turbidity		0.21	NTU	06/16/2004	1721	20	AB	
M_SP110	36	110	FLD	09242003	09242003	1	Water Temperature		6.9	Deg. C	09/24/2003	1030	20	AB	
M_SP110	36	110	FLD	09242003	09242003	2	pH		7.55	pH units	09/24/2003	1030	20	AB	
M_SP110	36	110	FLD	09242003	09242003	4	Spec. Conductivity		261	umhos/cm	09/24/2003	1030	20	AB	
M_SP110	36	110	FLD	09242003	09242003	11	Flow		0.777	gpm	09/24/2003	1030	20	AB	
M_SP110	36	110	FLD	09242003	09242003	66	Turbidity		0.79	NTU	09/24/2003	1030	20	AB	
M_SP110	36	110	FLD	06152004	06152004	1	Water Temperature		6.2	Deg. C	06/15/2004	1016	20	AB	
M_SP110	36	110	FLD	06152004	06152004	2	pH		7.41	pH units	06/15/2004	1016	20	AB	
M_SP110	36	110	FLD	06152004	06152004	4	Spec. Conductivity		266	umhos/cm	06/15/2004	1016	20	AB	
M_SP110	36	110	FLD	06152004	06152004	11	Flow		1.359	gpm	06/15/2004	1016	20	AB	
M_SP110	36	110	FLD	06152004	06152004	66	Turbidity		0.17	NTU	06/15/2004	1016	20	AB	
M_SP111	36	111	FLD	10072002	10072002	1	Water Temperature		5.4	Deg. C	10/07/2002	1612	20	AB	
M_SP111	36	111	FLD	10072002	10072002	2	pH		7.90	pH units	10/07/2002	1612	20	AB	
M_SP111	36	111	FLD	10072002	10072002	4	Spec. Conductivity		975	umhos/cm	10/07/2002	1612	20	AB	
M_SP111	36	111	FLD	10072002	10072002	11	Flow		0.273	gpm	10/07/2002	1612	20	AB	
M_SP111	36	111	FLD	10072002	10072002	66	Turbidity		8.36	NTU	10/07/2002	1612	20	AB	

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Spring/Stre	DOG	DOG	Lab_	Lab_ID(CTE)	Lab_ID(CHE	Para	Parameter	Equality_In	Paramete	Unit_of_Me	Date_Sampled	Sampl	San	Sampler's	Comments
M_SP111	36	111	FLD	09252003	09252003	1	Water Temperature		6.3	Deg. C	09/25/2003	1330	20	AB	
M_SP111	36	111	FLD	09252003	09252003	2	pH		7.78	pH units	09/25/2003	1330	20	AB	
M_SP111	36	111	FLD	09252003	09252003	4	Spec. Conductivity		561	umhos/cm	09/25/2003	1330	20	AB	
M_SP111	36	111	FLD	09252003	09252003	11	Flow		0.159	gpm	09/25/2003	1330	20	AB	
M_SP111	36	111	FLD	09252003	09252003	66	Turbidity		5.18	NTU	09/25/2003	1330	20	AB	
M_SP111	36	111	FLD	06052004	06052004	1	Water Temperature		4.2	Deg. C	06/05/2004	1621	20	AB	
M_SP111	36	111	FLD	06052004	06052004	2	pH		7.86	pH units	06/05/2004	1621	20	AB	
M_SP111	36	111	FLD	06052004	06052004	4	Spec. Conductivity		537	umhos/cm	06/05/2004	1621	20	AB	
M_SP111	36	111	FLD	06052004	06052004	11	Flow		0.861	gpm	06/05/2004	1621	20	AB	
M_SP111	36	111	FLD	06052004	06052004	66	Turbidity		0.91	NTU	06/05/2004	1621	20	AB	

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Spring/Str	DOC	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP01	36	1	CTE	59-23145	0	Comments									08/31/2001	09/17/2001	08/28/2001	1036	04	ED	DIS.METALS FILTERED @ LAB
M_SP01	36	1	CTE	59-23145	50	Alkalinity, as Bicarbonate		472	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	53	Chloride (IC)		47	mg/l	0.5	EPA 300.0	09/11/2001	1000	CB	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	60	Sulfate (IC)		26	mg/l	0.5	EPA 300.0	09/11/2001	1000	CB	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	62	Alkalinity, Total (CaCO3)		387	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	67	Spec. Conductivity (lab)		939	umhos/cm		SM2510-B	09/05/2001	810	CB	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	68	TDS		502	mg/l	10	EPA 160.1	09/04/2001	955	CB	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	09/06/2001	1040	MK	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	263	Calcium (T), as Ca		83	mg/l	1	EPA 215.1	09/06/2001	1558	MK	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	264	Magnesium (T), as Mg		40	mg/l	1	EPA 242.1	09/06/2001	1642	MK	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	265	Potassium (T), as K		1	mg/l	1	EPA 258.1	09/06/2001	1329	MK	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23145	266	Sodium (T), as Na		44	mg/l	1	EPA 273.1	09/06/2001	1407	MK	08/31/2001	09/17/2001	08/28/2001	1036	04	ED	
M_SP01	36	1	CTE	59-23955	50	Alkalinity, as Bicarbonate		473	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	53	Chloride (IC)		44	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	60	Sulfate (IC)		28	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	62	Alkalinity, Total (CaCO3)		388	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	68	TDS		464	mg/l	10	EPA 160.1	05/07/2002	1130	DI	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	263	Calcium (T), as Ca		80	mg/l	1	EPA 215.1	05/22/2002	1059	MK	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	264	Magnesium (T), as Mg		39	mg/l	1	EPA 242.1	05/22/2002	1222	MK	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	05/22/2002	901	MK	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CTE	59-23955	266	Sodium (T), as Na		43	mg/l	1	EPA 273.1	05/21/2002	923	MK	05/03/2002	05/22/2002	05/01/2002	1610	04	SC	
M_SP01	36	1	CHE	02-U009460	13	Temperature, Receiving		4.5	Deg. C	0.1	SM2550B	10/02/2002	1600	CSM	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	32	Arsenic (D), as As		0.0012	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	34	Boron (D), as B		0.07	mg/l	0.05	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	36	Calcium (D), as Ca		88	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	42	Magnesium (D), as Mg		44	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	45	Potassium (D), as K		1.9	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	46	Selenium (D), as Se		0.0044	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	48	Sodium (D), as Na		48	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	50	Alkalinity, as Bicarbonate		490	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	50	Alkalinity, as Bicarbonate		470	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	51	Acidity, as CaCO3		33	mg/l	10	D1067-92	09/30/2002	1100	BLP	09/27/2002	10/07/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	53	Chloride (IC)		43	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	53	Chloride (IC)		41	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	60	Sulfate (IC)		28	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	60	Sulfate (IC)		26	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	62	Alkalinity, Total (CaCO3)		385	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	63	Hardness, (calc)		400	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CTE	59-24553	68	TDS		464	mg/l	10	EPA 160.1	09/30/2002	800	DI	09/27/2002	10/07/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	133	Cation Sum		10	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	134	Anion Sum		9.8	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	263	Calcium (T), as Ca		88	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	264	Magnesium (T), as Mg		43	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	265	Potassium (T), as K		1.9	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U009460	266	Sodium (T), as Na		48	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1658	04	AB	
M_SP01	36	1	CHE	02-U011436	0	Comments									11/19/2002	12/02/2002	11/12/2002	1123	04	AB	Sample received on ice.
M_SP01	36	1	CHE	02-U011436	13	Temperature, Receiving		0	Deg. C	0.1	SM2550-B MOD	11/19/2002	1700	SPS	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500FG	11/20/2002	1330	TSM	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	32	Arsenic (D), as As		0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	34	Boron (D), as B		0.06	mg/l	0.05	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	36	Calcium (D), as Ca		80	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	42	Magnesium (D), as Mg		40	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	45	Potassium (D), as K		1.7	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	48	Sodium (D), as Na		43	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	50	Alkalinity, as Bicarbonate		480	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	50	Alkalinity, as Bicarbonate		456	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	51	Acidity, as CaCO3		35	mg/l	10	D1067-92	11/14/2002	800	JJ	11/14/2002	11/25/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	53	Chloride (IC)		43	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	60	Sulfate (IC)		27	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	62	Alkalinity, Total (CaCO3)		374	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	63	Hardness, (calc)		360	mg/l	0.2	SM 2340-B	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CTE	59-24800	68	TDS		449	mg/l	10	EPA 160.1	11/18/2002	745	JJ	11/14/2002	11/25/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	113	Aluminum (D), as Al		0.04	mg/l	0.03	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	133	Cation Sum		9.2	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	134	Anion Sum		9.6	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	263	Calcium (T), as Ca		80	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	02-U011436	264	Magnesium (T), as Mg		40	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1123	04	AB	
M_SP01	36	1	CHE	03-U004451	0	Comments									05/27/2003	06/12/2003	05/21/2003	0920	04	ED	Sample received on ice.
M_SP01	36	1	CHE	03-U004451	13	Temperature, Receiving		6	Deg. C	-20	SM 2550B Mod	05/27/2003	1710	SPS	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CTE	59-25175	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/29/2003	1300	TSM	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	32	Arsenic (D), as As		0.0009	mg/l	0.0005	EPA 200.8	05/30/2003	1047	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	36	Calcium (D), as Ca		81	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	42	Magnesium (D), as Mg		40	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	45	Potassium (D), as K		1.9	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	46	Selenium (D), as Se		0.0037	mg/l	0.0005	EPA 200.8	05/30/2003	1047	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	48	Sodium (D), as Na		45	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	50	Alkalinity, as Bicarbonate		470	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CTE	59-25175	51	Acidity, as CaCO3		23	mg/l	5	D1067-92	05/27/2003	1120	JJ	05/21/2003	05/28/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	53	Chloride (IC)		37	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CTE	59-25175	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CTE	59-25175	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	60	Sulfate (IC)		26	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	

Lab Data Muddy Springs

Spring/Stre	DO(	DOG	Lab_	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP01	36	1	CHE	03-U004451	62	Alkalinity, Total (CaCO3)		380	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	63	Hardness, (calc)		370	mg/l	5	SM 2340B	06/12/2003	1000	LD	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CTE	59-25175	68	TDS		473	mg/l	10	EPA 160.1	05/27/2003	0830	DI	05/21/2003	05/28/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	133	Cation Sum		9.3	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	134	Anion Sum		9.3	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	263	Calcium (T), as Ca		81	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	264	Magnesium (T), as Mg		40	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	265	Potassium (T), as K		1.9	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CHE	03-U004451	266	Sodium (T), as Na		45	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/21/2003	0920	04	ED	
M_SP01	36	1	CTE	59-25530	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	0907	04	AB	
M_SP01	36	1	CTE	59-25530	50	Alkalinity, as Bicarbonate		464	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	0907	04	AB	
M_SP01	36	1	CTE	59-25530	51	Acidity, as CaCO3		24	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/05/2003	0907	04	AB	
M_SP01	36	1	CTE	59-25530	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	0907	04	AB	
M_SP01	36	1	CTE	59-25530	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	0907	04	AB	
M_SP01	36	1	CTE	59-25530	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	0907	04	AB	
M_SP01	36	1	CTE	59-25530	62	Alkalinity, Total (CaCO3)		381	mg/l	5	SM2320-B	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	0907	04	AB	
M_SP01	36	1	CTE	59-25530	68	TDS		454	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/05/2003	0907	04	AB	
M_SP01	36	1	CHE	03-U007015	0	Comments									08/12/2003	08/25/2003	08/08/2003	1715	04	AB	Sample received on ice.
M_SP01	36	1	CHE	03-U007015	13	Temperature, Receiving		8	Deg. C	-20	SM 2550B Mod	08/12/2003	1420	SPS	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	32	Arsenic (D), as As		0.0007	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	34	Boron (D), as B		0.06	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	36	Calcium (D), as Ca		82	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	42	Magnesium (D), as Mg		40	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	45	Potassium (D), as K		1.7	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	46	Selenium (D), as Se		0.0026	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	48	Sodium (D), as Na		45	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	50	Alkalinity, as Bicarbonate		510	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	53	Chloride (IC)		42	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	60	Sulfate (IC)		27	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	62	Alkalinity, Total (CaCO3)		420	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	63	Hardness, (calc)		370	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	133	Cation Sum		9.4	meq/l	0.1	ASTM D-596	08/20/2003	1434	RIF	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	134	Anion Sum		10	meq/l	0.1	ASTM D-596	08/20/2003	1434	RIF	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	263	Calcium (T), as Ca		82	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U007015	264	Magnesium (T), as Mg		40	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1715	04	AB	
M_SP01	36	1	CHE	03-U009441	0	Comments									10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	Sample received on ice.
M_SP01	36	1	CHE	03-U009441	13	Temperature, Receiving		5.5	Deg. C	-20	SM 2550B Mod	10/10/2003	1155	SPS	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CTE	59-25788	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	32	Arsenic (D), as As		0.0006	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	34	Boron (D), as B		0.06	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	36	Calcium (D), as Ca		86	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	42	Magnesium (D), as Mg		42	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	45	Potassium (D), as K		1.8	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	46	Selenium (D), as Se		0.0027	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	48	Sodium (D), as Na		47	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	49	Zinc (D), as Zn		0.13	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CTE	59-25788	50	Alkalinity,as Bicarbonate		484	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CTE	59-25788	51	Acidity, as CaCO3		36	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CTE	59-25788	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	53	Chloride (IC)		38	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CTE	59-25788	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CTE	59-25788	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	60	Sulfate (IC)		26	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CTE	59-25788	62	Alkalinity, Total (CaCO3)		397	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	63	Hardness, (calc)		390	mg/l	1	SM 2340B	10/24/2003	630	DWG	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CTE	59-25788	68	TDS		489	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	145	Iron (T), as Fe		0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	263	Calcium (T), as Ca		86	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	264	Magnesium (T), as Mg		42	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	265	Potassium (T), as K		1.9	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	03-U009441	266	Sodium (T), as Na		48	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1645	04	JS, RG	
M_SP01	36	1	CHE	04-U004621	0	Comments									05/17/2004	05/27/2004	05/11/2004	1025	04	AB	Sample received on ice.
M_SP01	36	1	CHE	04-U004621	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B Mod	05/17/2004	1557	SPS	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	32	Arsenic (D), as As		0.0008	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	34	Boron (D), as B		0.06	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	36	Calcium (D), as Ca		84	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	42	Magnesium (D), as Mg		42	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	45	Potassium (D), as K		1.9	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	46	Selenium (D), as Se		0.0024	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	48	Sodium (D), as Na		49	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	49	Zinc (D), as Zn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	50	Alkalinity, as Bicarbonate		490	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26322	50	Alkalinity, as Bicarbonate		492	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26322	51	Acidity, as CaCO3		17	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/11/2004	05/17/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26322	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	53	Chloride (IC)		44	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	60	Sulfate (IC)		30	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	62	Alkalinity, Total (CaCO3)		400	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26322	62	Alkalinity, Total (CaCO3)		403	mg/l	5	SM2320-B	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	63	Hardness, (calc)		380	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26322	68	TDS		500	mg/l	10	EPA 160.1	05/13/2004	800	JJ	05/11/2004	05/17/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	133	Cation Sum		9.8	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	134	Anion Sum		9.9	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	145	Iron (T), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	149	Manganese (T), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	263	Calcium (T), as Ca		85	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	264	Magnesium (T), as Mg		42	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	265	Potassium (T), as K		1.9	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CHE	04-U004621	266	Sodium (T), as Na		49	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1025	04	AB	
M_SP01	36	1	CTE	59-26342	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1226	BLP	05/13/2004	05/17/2004	05/13/2004	1610	04	AB	

Lab Data Muddy Springs

Spring/Stre	DOY	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analye	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP01	36	1	CTE	59-26342	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1226	BLP	05/13/2004	05/17/2004	05/13/2004	1610	04	AB	
M_SP01	36	1	CTE	59-26342	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/14/2004	1226	BLP	05/13/2004	05/17/2004	05/13/2004	1610	04	AB	
M_SP02	36	2	CTE	59-23144	0	Comments									08/31/2001	09/17/2001	08/28/2001	1003	04	ED	DIS.METALS FILTERED @ LAB
M_SP02	36	2	CTE	59-23144	50	Alkalinity, as Bicarbonate		451	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	53	Chloride (IC)		44	mg/l	0.5	EPA 300.0	09/11/2001	1000	CB	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	60	Sulfate (IC)		35	mg/l	0.5	EPA 300.0	09/11/2001	1000	CB	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	62	Alkalinity, Total (CaCO3)		370	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	67	Spec. Conductivity (lab)		937	umhos/cm		SM2510-B	09/05/2001	810	CB	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	68	TDS		504	mg/l	10	EPA 160.1	09/04/2001	955	CB	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	09/06/2001	1040	MK	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	263	Calcium (T), as Ca		80	mg/l	1	EPA 215.1	09/06/2001	1558	MK	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	264	Magnesium (T), as Mg		33	mg/l	1	EPA 242.1	09/06/2001	1642	MK	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	09/06/2001	1329	MK	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23144	266	Sodium (T), as Na		52	mg/l	1	EPA 273.1	09/06/2001	1407	MK	08/31/2001	09/17/2001	08/28/2001	1003	04	ED	
M_SP02	36	2	CTE	59-23956	50	Alkalinity, as Bicarbonate		470	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	53	Chloride (IC)		41	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	60	Sulfate (IC)		38	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	62	Alkalinity, Total (CaCO3)		385	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	68	TDS		463	mg/l	10	EPA 160.1	05/07/2002	1130	DI	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	263	Calcium (T), as Ca		81	mg/l	1	EPA 215.1	05/22/2002	1059	MK	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	264	Magnesium (T), as Mg		33	mg/l	1	EPA 242.1	05/22/2002	1222	MK	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	05/22/2002	901	MK	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CTE	59-23956	266	Sodium (T), as Na		53	mg/l	1	EPA 273.1	05/21/2002	923	MK	05/03/2002	05/22/2002	05/01/2002	1650	04	SC	
M_SP02	36	2	CHE	03-U004452	0	Comments									05/27/2003	06/12/2003	05/20/2003	1950	04	ED	Sample received on ice.
M_SP02	36	2	CHE	03-U004452	13	Temperature, Receiving		6	Deg. C	-20	SM 2550B Mod	05/27/2003	1710	SPS	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CTE	59-25184	17	NO2+NO3, as N		0.12	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/29/2003	1300	TSM	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	32	Arsenic (D), as As		0.0012	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	34	Boron (D), as B		0.19	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	36	Calcium (D), as Ca		80	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	42	Magnesium (D), as Mg		34	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	45	Potassium (D), as K		2.1	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	46	Selenium (D), as Se		0.0033	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	48	Sodium (D), as Na		56	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	50	Alkalinity, as Bicarbonate		450	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CTE	59-25184	51	Acidity, as CaCO3		56	mg/l	5	D1067-92	05/27/2003	1120	JJ	05/21/2003	05/28/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004453	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1730	04	ED	
M_SP02	36	2	CHE	03-U004452	53	Chloride (IC)		35	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CTE	59-25184	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CTE	59-25184	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	60	Sulfate (IC)		37	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	62	Alkalinity, Total (CaCO3)		370	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	63	Hardness, (calc)		340	mg/l	5	SM 2340B	06/12/2003	1000	LD	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CTE	59-25184	68	TDS		486	mg/l	10	EPA 160.1	05/27/2003	0830	DI	05/21/2003	05/28/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	133	Cation Sum		9.3	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	134	Anion Sum		9.1	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	263	Calcium (T), as Ca		82	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	264	Magnesium (T), as Mg		34	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	265	Potassium (T), as K		2.1	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CHE	03-U004452	266	Sodium (T), as Na		58	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1950	04	ED	
M_SP02	36	2	CTE	59-25529	17	NO2+NO3, as N		0.09	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	2141	04	AB	
M_SP02	36	2	CTE	59-25529	50	Alkalinity, as Bicarbonate		459	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	2141	04	AB	
M_SP02	36	2	CTE	59-25529	51	Acidity, as CaCO3		23	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/05/2003	2141	04	AB	
M_SP02	36	2	CTE	59-25529	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	2141	04	AB	
M_SP02	36	2	CTE	59-25529	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	2141	04	AB	
M_SP02	36	2	CTE	59-25529	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	2141	04	AB	
M_SP02	36	2	CTE	59-25529	62	Alkalinity, Total (CaCO3)		376	mg/l	5	SM2320-B	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	2141	04	AB	
M_SP02	36	2	CTE	59-25529	68	TDS		457	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/05/2003	2141	04	AB	
M_SP02	36	2	CHE	03-U007012	0	Comments									08/12/2003	08/25/2003	08/08/2003	1550	04	AB	Sample received on ice.
M_SP02	36	2	CHE	03-U007012	13	Temperature, Receiving		7	Deg. C	-20	SM 2550B Mod	08/12/2003	1420	SPS	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	32	Arsenic (D), as As		0.0008	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	34	Boron (D), as B		0.05	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	36	Calcium (D), as Ca		79	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	42	Magnesium (D), as Mg		34	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	45	Potassium (D), as K		2	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	46	Selenium (D), as Se		0.0019	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	48	Sodium (D), as Na		54	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	49	Zinc (D), as Zn		0.06	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	50	Alkalinity, as Bicarbonate		520	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	53	Chloride (IC)		38	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	60	Sulfate (IC)		35	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	62	Alkalinity, Total (CaCO3)		420	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	63	Hardness, (calc)		340	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	133	Cation Sum		9.1	meq/l	0.1	ASTM D-596	08/20/2003	1421	RIF	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	134	Anion Sum		10	meq/l	0.1	ASTM D-596	08/20/2003	1422	RIF	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	263	Calcium (T), as Ca		79	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	03-U007012	264	Magnesium (T), as Mg		34	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1550	04	AB	
M_SP02	36	2	CHE	04-U004622	0	Comments									05/17/2004	05/27/2004	05/11/2004	1145	04	AB	Sample received on ice.
M_SP02	36	2	CHE	04-U004622	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B Mod	05/17/2004	1557	SPS	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	32	Arsenic (D), as As		0.0009	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	34	Boron (D), as B		0.06	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	36	Calcium (D), as Ca		79	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	42	Magnesium (D), as Mg		33	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	45	Potassium (D), as K		2	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	46	Selenium (D), as Se		0.002	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	48	Sodium (D), as Na		60	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	49	Zinc (D), as Zn		0.02	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	50	Alkalinity, as Bicarbonate		460	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26323	50	Alkalinity, as Bicarbonate		462	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26323	51	Acidity, as CaCO3		14	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/11/2004	05/17/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26323	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	53	Chloride (IC)		37	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	

Lab Data Muddy Springs

Spring/Strc	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP02	36	2	CHE	04-U004622	60	Sulfate (IC)		36	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	62	Alkalinity, Total (CaCO3)		370	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26323	62	Alkalinity, Total (CaCO3)		379	mg/l	5	SM2320-B	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	63	Hardness, (calc)		330	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26323	68	TDS		488	mg/l	10	EPA 160.1	05/13/2004	800	JJ	05/11/2004	05/17/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	133	Cation Sum		9.3	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	134	Anion Sum		9.3	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	145	Iron (T), as Fe		0.02	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	149	Manganese (T), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	263	Calcium (T), as Ca		80	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	264	Magnesium (T), as Mg		34	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	265	Potassium (T), as K		4.8	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CHE	04-U004622	266	Sodium (T), as Na		59	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1145	04	AB	
M_SP02	36	2	CTE	59-26340	17	NO2+NO3, as N		0.11	mg/l	0.03	EPA 300.0	05/14/2004	1159	BLP	05/13/2004	05/17/2004	05/13/2004	1618	04	AB	
M_SP02	36	2	CTE	59-26340	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1159	BLP	05/13/2004	05/17/2004	05/13/2004	1618	04	AB	
M_SP02	36	2	CTE	59-26340	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/14/2004	1159	BLP	05/13/2004	05/17/2004	05/13/2004	1618	04	AB	
M_SP04	36	4	CTE	59-23146	0	Comments									08/31/2001	09/17/2001	08/28/2001	1333	04	ED	DIS.METALS FILTERED @ LAB
M_SP04	36	4	CTE	59-23146	50	Alkalinity, as Bicarbonate		502	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	53	Chloride (IC)		30	mg/l	0.5	EPA 300.0	09/11/2001	1000	CB	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	60	Sulfate (IC)		18	mg/l	0.5	EPA 300.0	09/11/2001	1000	CB	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	62	Alkalinity, Total (CaCO3)		419	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	67	Spec. Conductivity (lab)		955	umhos/cm		SM2510-B	09/05/2001	810	CB	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	68	TDS		506	mg/l	10	EPA 160.1	09/04/2001	955	CB	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	09/06/2001	1040	MK	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	263	Calcium (T), as Ca		50	mg/l	1	EPA 215.1	09/06/2001	1558	MK	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	264	Magnesium (T), as Mg		29	mg/l	1	EPA 242.1	09/06/2001	1642	MK	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	265	Potassium (T), as K		1	mg/l	1	EPA 258.1	09/06/2001	1329	MK	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23146	266	Sodium (T), as Na		104	mg/l	1	EPA 273.1	09/06/2001	1407	MK	08/31/2001	09/17/2001	08/28/2001	1333	04	ED	
M_SP04	36	4	CTE	59-23949	50	Alkalinity, as Bicarbonate		539	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CTE	59-23949	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CTE	59-23949	53	Chloride (IC)		29	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CTE	59-23949	60	Sulfate (IC)		20	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CTE	59-23949	62	Alkalinity, Total (CaCO3)		442	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CTE	59-23949	68	TDS		492	mg/l	10	EPA 160.1	05/07/2002	1130	DI	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CTE	59-23949	145	Iron (T), as Fe		0.7	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CTE	59-23949	263	Calcium (T), as Ca		53	mg/l	1	EPA 215.1	05/22/2002	1059	MK	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CTE	59-23949	264	Magnesium (T), as Mg		30	mg/l	1	EPA 242.1	05/22/2002	1222	MK	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CTE	59-23949	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	05/22/2002	901	MK	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CTE	59-23949	266	Sodium (T), as Na		111	mg/l	1	EPA 273.1	05/21/2002	923	MK	05/03/2002	05/22/2002	05/03/2002	1022	04	ED	
M_SP04	36	4	CHE	02-U009455	13	Temperature, Receiving		4	Deg. C	0.1	SM2550B	10/02/2002	1600	CSM	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	17	NO2+NO3, as N		0.22	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	31	Ammonia-Nitrogen		0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	32	Arsenic (D), as As		0.0021	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	34	Boron (D), as B		0.07	mg/l	0.05	EPA 200.7	10/10/2002	1453	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	36	Calcium (D), as Ca		53	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	42	Magnesium (D), as Mg		32	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	45	Potassium (D), as K		1.7	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	46	Selenium (D), as Se		0.0037	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	48	Sodium (D), as Na		110	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	50	Alkalinity, as Bicarbonate		540	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	50	Alkalinity, as Bicarbonate		512	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	51	Acidity, as CaCO3		10	mg/l	10	D1067-92	09/30/2002	1400	BLP	09/27/2002	10/07/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	53	Chloride (IC)		26	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	53	Chloride (IC)		26	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	60	Sulfate (IC)		19	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	60	Sulfate (IC)		17	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	62	Alkalinity, Total (CaCO3)		420	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	63	Hardness, (calc)		260	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CTE	59-24556	68	TDS		470	mg/l	10	EPA 160.1	09/30/2002	800	DI	09/27/2002	10/07/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	133	Cation Sum		10	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	134	Anion Sum		10	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	145	Iron (T), as Fe		0.26	mg/l	0.02	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	149	Manganese (T), as Mn		0.01	mg/l	0.01	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	263	Calcium (T), as Ca		52	mg/l	0.2	EAP 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	264	Magnesium (T), as Mg		31	mg/l	0.2	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	265	Potassium (T), as K		1.9	mg/l	0.2	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U009455	266	Sodium (T), as Na		110	mg/l	0.2	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	1640	04	AB	
M_SP04	36	4	CHE	02-U011437	0	Comments									11/19/2002	12/02/2002	11/12/2002	1355	04	AB	Sample received on ice.
M_SP04	36	4	CHE	02-U011437	13	Temperature, Receiving		0.5	Deg. C	0.1	SM2550-B MOD	11/19/2002	1700	SPS	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	17	NO2+NO3, as N		0.15	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500FG	11/20/2002	1330	TSM	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	34	Boron (D), as B		0.06	mg/l	0.05	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	36	Calcium (D), as Ca		45	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	42	Magnesium (D), as Mg		28	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	45	Potassium (D), as K		1.6	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	46	Selenium (D), as Se		0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	48	Sodium (D), as Na		130	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1356	04	AB	
M_SP04	36	4	CHE	02-U011437	50	Alkalinity, as Bicarbonate		580	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	50	Alkalinity, as Bicarbonate		406	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	51	Acidity, as CaCO3		23	mg/l	10	D1067-92	11/14/2002	800	JJ	11/14/2002	11/25/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	53	Chloride (IC)		26	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	60	Sulfate (IC)		20	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	62	Alkalinity, Total (CaCO3)		333	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	63	Hardness, (calc)		230	mg/l	0.2	SM 2340-B	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CTE	59-24801	68	TDS		547	mg/l	10	EPA 160.1	11/18/2002	745	JJ	11/14/2002	11/25/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	113	Aluminum (D), as Al		0.03	mg/l	0.03	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	133	Cation Sum		10	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	134	Anion Sum		11	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	145	Iron (T), as Fe		0.08	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	263	Calcium (T), as Ca		48	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	02-U011437	264	Magnesium (T), as Mg		29	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1355	04	AB	
M_SP04	36	4	CHE	03-U004453	0	Comments									05/27/2003	06/12/2003	05/20/2003	1730	04	AB	Sample received on ice.
M_SP04	36	4	CHE	03-U004453	13	Temperature, Receiving		5.5	Deg. C	-20	SM 2550B Mod	05/27/2003	1710	SPS	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CTE	59-25182	17	NO2+NO3, as N		0.14	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/29/2003	1300	TSM	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	32	Arsenic (D), as As		0.0018	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	34	Boron (D), as B		0.09	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	

Lab Data Muddy Springs

Spring/Stre	DO(	DOG	Lab_	Lab_ID	Para	Parameter_Name	Eq	Paramete	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP04	36	4	CHE	03-U004453	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	36	Calcium (D), as Ca		51	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	42	Magnesium (D), as Mg		30	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	45	Potassium (D), as K		1.5	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	46	Selenium (D), as Se		0.0026	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	48	Sodium (D), as Na		130	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	50	Alkalinity, as Bicarbonate		580	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CTE	59-25182	51	Acidity, as CaCO3		38	mg/l	5	D1067-92	05/27/2003	1120	JJ	05/21/2003	05/28/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	53	Chloride (IC)		26	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CTE	59-25182	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CTE	59-25182	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	60	Sulfate (IC)		20	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	62	Alkalinity, Total (CaCO3)		480	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	63	Hardness, (calc)		250	mg/l	5	SM 2340B	06/12/2003	1000	LD	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CTE	59-25182	68	TDS		561	mg/l	10	EPA 160.1	05/27/2003	0830	DI	05/21/2003	05/28/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	133	Cation Sum		11	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	134	Anion Sum		11	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	145	Iron (T), as Fe		0.07	mg/l	0.02	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	263	Calcium (T), as Ca		53	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	264	Magnesium (T), as Mg		31	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	265	Potassium (T), as K		1.6	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U004453	266	Sodium (T), as Na		130	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1730	04	AB	
M_SP04	36	4	CHE	03-U007014	0	Comments									08/12/2003	08/25/2003	08/05/2003	1935	04	AB	Sample received on ice.
M_SP04	36	4	CHE	03-U007014	13	Temperature, Receiving		6	Deg. C	-20	SM 2550B Mod	08/12/2003	1420	SPS	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CTE	59-25534	17	NO2+NO3, as N		0.21	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	32	Arsenic (D), as As		0.0017	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	34	Boron (D), as B		0.06	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	36	Calcium (D), as Ca		49	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	42	Magnesium (D), as Mg		29	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	45	Potassium (D), as K		1.5	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	48	Sodium (D), as Na		110	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	50	Alkalinity, as Bicarbonate		520	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CTE	59-25534	50	Alkalinity, as Bicarbonate		521	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CTE	59-25534	51	Acidity, as CaCO3		17	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	52	Alkalinity, as Carbonate		7	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CTE	59-25534	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	53	Chloride (IC)		27	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CTE	59-25534	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CTE	59-25534	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	60	Sulfate (IC)		20	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	62	Alkalinity, Total (CaCO3)		440	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CTE	59-25534	62	Alkalinity, Total (CaCO3)		427	mg/l	5	SM2320-B	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	63	Hardness, (calc)		240	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CTE	59-25534	68	TDS		483	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	133	Cation Sum		9.7	meq/l	0.1	ASTM D-596	08/20/2003	1433	RIF	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	134	Anion Sum		9.9	meq/l	0.1	ASTM D-596	08/20/2003	1433	RIF	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	145	Iron (T), as Fe		0.21	mg/l	0.02	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	149	Manganese (T), as Mn		0.03	mg/l	0.01	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	263	Calcium (T), as Ca		52	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U007014	264	Magnesium (T), as Mg		30	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1935	04	AB	
M_SP04	36	4	CHE	03-U009443	0	Comments									10/10/2003	10/24/2003	10/06/2003	1530	04	AB	Sample received on ice.
M_SP04	36	4	CHE	03-U009443	13	Temperature, Receiving		5	Deg. C	-20	SM 2550B Mod	10/10/2003	1155	SPS	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	17	NO2+NO3, as N		0.22	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	32	Arsenic (D), as As		0.0023	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	34	Boron (D), as B		0.06	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	36	Calcium (D), as Ca		50	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	42	Magnesium (D), as Mg		29	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	45	Potassium (D), as K		1.6	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	46	Selenium (D), as Se		0.0023	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	48	Sodium (D), as Na		110	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	50	Alkalinity,as Bicarbonate		538	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	51	Acidity, as CaCO3		17	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	53	Chloride (IC)		23	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	60	Sulfate (IC)		17	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	62	Alkalinity, Total (CaCO3)		441	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	63	Hardness, (calc)		240	mg/l	1	SM 2340B	10/24/2003	630	DWG	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CTE	59-25790	68	TDS		515	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	145	Iron (T), as Fe		0.42	mg/l	0.02	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	149	Manganese (T), as Mn		0.01	mg/l	0.01	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	263	Calcium (T), as Ca		50	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	264	Magnesium (T), as Mg		29	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	265	Potassium (T), as K		1.8	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	03-U009443	266	Sodium (T), as Na		110	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1530	04	AB	
M_SP04	36	4	CHE	04-U004625	0	Comments									05/17/2004	05/27/2004	05/12/2004	1455	04	AB	Sample received on ice.
M_SP04	36	4	CHE	04-U004625	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B Mod	05/17/2004	1557	SPS	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	17	NO2+NO3, as N		0.15	mg/l	0.03	EPA 300.0	05/13/2004	1443	BLP	05/13/2004	05/24/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	32	Arsenic (D), as As		0.0018	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	34	Boron (D), as B		0.07	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	36	Calcium (D), as Ca		53	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	42	Magnesium (D), as Mg		31	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	45	Potassium (D), as K		1.5	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	46	Selenium (D), as Se		0.0024	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	48	Sodium (D), as Na		130	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	49	Zinc (D), as Zn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	50	Alkalinity, as Bicarbonate		580	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	50	Alkalinity, as Bicarbonate		583	mg/l	5	EPA 310.1	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	51	Acidity, as CaCO3		30	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/13/2004	05/24/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/12/2004	1455	04	AB	

Lab Data Muddy Springs

Spring/Stn	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	Sam	Sample	Comments
M_SP04	36	4	CHE	04-U004625	53	Chloride (IC)		27	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/13/2004	1443	BLP	05/13/2004	05/24/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/13/2004	1443	BLP	05/13/2004	05/24/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	60	Sulfate (IC)		23	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	62	Alkalinity, Total (CaCO3)		480	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	62	Alkalinity, Total (CaCO3)		478	mg/l	5	SM2320-B	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	63	Hardness, (calc)		260	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CTE	59-26336	68	TDS		563	mg/l	10	EPA 160.1	05/17/2004	800	JJ	05/13/2004	05/24/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	133	Cation Sum		11	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	134	Anion Sum		11	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	145	Iron (T), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	149	Manganese (T), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	263	Calcium (T), as Ca		53	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	264	Magnesium (T), as Mg		31	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	265	Potassium (T), as K		1.6	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP04	36	4	CHE	04-U004625	266	Sodium (T), as Na		130	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1455	04	AB	
M_SP07	36	7	CTE	59-23151	0	Comments									08/31/2001	09/17/2001	08/29/2001	1717	04	ED	DIS.METALS FILTERED @ LAB
M_SP07	36	7	CTE	59-23151	50	Alkalinity, as Bicarbonate		560	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	53	Chloride (IC)		35	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	60	Sulfate (IC)		27	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	62	Alkalinity, Total (CaCO3)		459	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	67	Spec. Conductivity (lab)		1071	umhos/cm		SM2510-B	09/05/2001	810	CB	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	68	TDS		561	mg/l	10	EPA 160.1	09/04/2001	955	CB	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	145	Iron (T), as Fe		0.3	mg/l	0.1	EPA 236.1	09/06/2001	1040	MK	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	263	Calcium (T), as Ca		64	mg/l	1	EPA 215.1	09/06/2001	1558	MK	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	264	Magnesium (T), as Mg		43	mg/l	1	EPA 242.1	09/06/2001	1642	MK	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	09/06/2001	1329	MK	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23151	266	Sodium (T), as Na		88	mg/l	1	EPA 273.1	09/06/2001	1407	MK	08/31/2001	09/17/2001	08/29/2001	1717	04	ED	
M_SP07	36	7	CTE	59-23952	50	Alkalinity, as Bicarbonate		540	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	53	Chloride (IC)		32	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	60	Sulfate (IC)		28	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	62	Alkalinity, Total (CaCO3)		449	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	68	TDS		498	mg/l	10	EPA 160.1	05/07/2002	1130	DI	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	145	Iron (T), as Fe		2.2	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	263	Calcium (T), as Ca		83	mg/l	1	EPA 215.1	05/22/2002	1059	MK	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	264	Magnesium (T), as Mg		42	mg/l	1	EPA 242.1	05/22/2002	1222	MK	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	265	Potassium (T), as K		3	mg/l	1	EPA 258.1	05/22/2002	901	MK	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CTE	59-23952	266	Sodium (T), as Na		79	mg/l	1	EPA 273.1	05/21/2002	923	MK	05/03/2002	05/22/2002	05/03/2002	1115	04	SC	
M_SP07	36	7	CHE	02-U009458	13	Temperature, Receiving		3.5	Deg. C	0.1	SM2550B	10/02/2002	1600	CSM	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	17	NO2+NO3, as N		0.14	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	32	Arsenic (D), as As		0.0009	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	34	Boron (D), as B		0.1	mg/l	0.05	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	36	Calcium (D), as Ca		65	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	42	Magnesium (D), as Mg		43	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	45	Potassium (D), as K		1.9	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	46	Selenium (D), as Se		0.0034	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	48	Sodium (D), as Na		86	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	50	Alkalinity, as Bicarbonate		530	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	50	Alkalinity, as Bicarbonate		520	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	51	Acidity, as CaCO3		13	mg/l	10	D1067-92	09/30/2002	1100	BLP	09/27/2002	10/07/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	53	Chloride (IC)		30	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	53	Chloride (IC)		31	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	60	Sulfate (IC)		29	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	60	Sulfate (IC)		29	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	62	Alkalinity, Total (CaCO3)		426	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	63	Hardness, (calc)		340	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CTE	59-24554	68	TDS		472	mg/l	10	EPA 160.1	09/30/2002	800	DI	09/27/2002	10/07/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	133	Cation Sum		11	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	134	Anion Sum		10	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	145	Iron (T), as Fe		0.8	mg/l	0.02	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	149	Manganese (T), as Mn		0.01	mg/l	0.01	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	263	Calcium (T), as Ca		64	mg/l	0.2	EAP 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	264	Magnesium (T), as Mg		43	mg/l	0.2	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	265	Potassium (T), as K		2.3	mg/l	0.2	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U009458	266	Sodium (T), as Na		86	mg/l	0.2	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/26/2002	0948	04	AB	
M_SP07	36	7	CHE	02-U011438	0	Comments									11/19/2002	12/02/2002	11/12/2002	1635	04	AB	Sample received on ice.
M_SP07	36	7	CHE	02-U011438	13	Temperature, Receiving		1	Deg. C	0.1	SM2550-B MOD	11/19/2002	1700	SPS	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	17	NO2+NO3, as N		0.14	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500FG	11/20/2002	1330	TSM	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	32	Arsenic (D), as As		0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	34	Boron (D), as B		0.07	mg/l	0.05	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	36	Calcium (D), as Ca		61	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	42	Magnesium (D), as Mg		40	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	45	Potassium (D), as K		1.8	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	46	Selenium (D), as Se		0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	48	Sodium (D), as Na		80	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	49	Zinc (D), as Zn		0.02	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	50	Alkalinity, as Bicarbonate		530	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	50	Alkalinity, as Bicarbonate		553	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	51	Acidity, as CaCO3		23	mg/l	10	D1067-92	11/14/2002	800	JJ	11/14/2002	11/25/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	53	Chloride (IC)		30	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	60	Sulfate (IC)		30	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	62	Alkalinity, Total (CaCO3)		453	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	63	Hardness, (calc)		320	mg/l	0.2	SM 2340-B	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CTE	59-24802	68	TDS		509	mg/l	10	EPA 160.1	11/18/2002	745	JJ	11/14/2002	11/25/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	113	Aluminum (D), as Al		0.04	mg/l	0.03	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	133	Cation Sum		9.9	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	134	Anion Sum		10	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	145	Iron (T), as Fe		0.19	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	263	Calcium (T), as Ca		62	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	02-U011438	264	Magnesium (T), as Mg		41	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1635	04	AB	
M_SP07	36	7	CHE	03-U004454	0	Comments									05/27/2003	06/12/2003	05/20/2003	1215	04	AB	Sample received on ice.
M_SP07	36	7	CHE	03-U004454	13	Temperature, Receiving		7	Deg. C	-20	SM 2550B Mod	05/27/2003	1710	SPS	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CTE	59-25178	17	NO2+NO3, as N		0.33	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/29/2003	1300	TSM	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	32	Arsenic (D), as As		0.0009	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	34	Boron (D), as B		0.08	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	

Lab Data Muddy Springs

Spring/Str	DO	DOG	Lab_	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP07	36	7	CHE	03-U004454	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	36	Calcium (D), as Ca		60	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	42	Magnesium (D), as Mg		40	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	45	Potassium (D), as K		1.7	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	46	Selenium (D), as Se		0.0025	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	48	Sodium (D), as Na		81	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	50	Alkalinity, as Bicarbonate		520	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CTE	59-25178	51	Acidity, as CaCO3		22	mg/l	5	D1067-92	05/27/2003	1120	JJ	05/21/2003	05/28/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	53	Chloride (IC)		26	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CTE	59-25178	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CTE	59-25178	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	60	Sulfate (IC)		27	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	62	Alkalinity, Total (CaCO3)		430	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	63	Hardness, (calc)		310	mg/l	5	SM 2340B	06/12/2003	1000	LD	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CTE	59-25178	68	TDS		493	mg/l	10	EPA 160.1	05/27/2003	0830	DI	05/21/2003	05/28/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	133	Cation Sum		9.9	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	134	Anion Sum		9.8	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	145	Iron (T), as Fe		0.55	mg/l	0.02	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	263	Calcium (T), as Ca		62	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	264	Magnesium (T), as Mg		41	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	265	Potassium (T), as K		2	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U004454	266	Sodium (T), as Na		83	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1215	04	AB	
M_SP07	36	7	CHE	03-U007016	0	Comments									08/12/2003	08/25/2003	08/05/2003	1550	04	AB	Sample received on ice.
M_SP07	36	7	CHE	03-U007016	13	Temperature, Receiving		6	Deg. C	-20	SM 2550B Mod	08/12/2003	1420	SPS	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CTE	59-25531	17	NO2+NO3, as N		0.22	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	32	Arsenic (D), as As		0.0006	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	34	Boron (D), as B		0.07	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	36	Calcium (D), as Ca		60	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	42	Magnesium (D), as Mg		39	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	45	Potassium (D), as K		1.9	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	46	Selenium (D), as Se		0.002	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	48	Sodium (D), as Na		81	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	49	Zinc (D), as Zn		0.02	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	50	Alkalinity, as Bicarbonate		530	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CTE	59-25531	50	Alkalinity, as Bicarbonate		506	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CTE	59-25531	51	Acidity, as CaCO3		17	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CTE	59-25531	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	53	Chloride (IC)		29	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CTE	59-25531	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CTE	59-25531	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	60	Sulfate (IC)		28	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	62	Alkalinity, Total (CaCO3)		440	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CTE	59-25531	62	Alkalinity, Total (CaCO3)		415	mg/l	5	SM2320-B	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	63	Hardness, (calc)		310	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CTE	59-25531	68	TDS		480	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	133	Cation Sum		9.8	meq/l	0.1	ASTM D-596	08/20/2003	1435	RIF	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	134	Anion Sum		10	meq/l	0.1	ASTM D-596	08/20/2003	1435	RIF	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	145	Iron (T), as Fe		0.36	mg/l	0.02	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	263	Calcium (T), as Ca		63	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U007016	264	Magnesium (T), as Mg		41	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1550	04	AB	
M_SP07	36	7	CHE	03-U009444	0	Comments									10/10/2003	10/24/2003	10/07/2003	1540	04	AB	Sample received on ice.
M_SP07	36	7	CHE	03-U009444	13	Temperature, Receiving		5.5	Deg. C	-20	SM 2550B Mod	10/10/2003	1155	SPS	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	17	NO2+NO3, as N		0.21	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	32	Arsenic (D), as As		0.0007	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	34	Boron (D), as B		0.07	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	36	Calcium (D), as Ca		63	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	40	Iron (D), as Fe		0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	42	Magnesium (D), as Mg		41	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	43	Manganese (D), as Mn		0.02	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	45	Potassium (D), as K		2	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	46	Selenium (D), as Se		0.0024	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	48	Sodium (D), as Na		85	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	49	Zinc (D), as Zn		0.02	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	50	Alkalinity,as Bicarbonate		516	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	51	Acidity, as CaCO3		9	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	53	Chloride (IC)		27	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	60	Sulfate (IC)		27	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	62	Alkalinity, Total (CaCO3)		423	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	63	Hardness, (calc)		330	mg/l	1	SM 2340B	10/24/2003	630	DWG	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CTE	59-25791	68	TDS		517	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	145	Iron (T), as Fe		2.5	mg/l	0.02	EPA 200.7	10/21/2003	1516	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	149	Manganese (T), as Mn		0.03	mg/l	0.01	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	263	Calcium (T), as Ca		63	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	264	Magnesium (T), as Mg		42	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	265	Potassium (T), as K		2.8	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	03-U009444	266	Sodium (T), as Na		81	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1540	04	AB	
M_SP07	36	7	CHE	04-U004619	0	Comments									05/17/2004	05/27/2004	05/10/2004	1530	04	AB	Sample received on ice.
M_SP07	36	7	CHE	04-U004619	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B Mod	05/17/2004	1557	SPS	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	32	Arsenic (D), as As		0.0008	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	34	Boron (D), as B		0.08	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	36	Calcium (D), as Ca		64	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	42	Magnesium (D), as Mg		42	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	45	Potassium (D), as K		1.8	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	46	Selenium (D), as Se		0.0019	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	48	Sodium (D), as Na		87	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	49	Zinc (D), as Zn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	50	Alkalinity, as Bicarbonate		530	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CTE	59-26324	50	Alkalinity, as Bicarbonate		528	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CTE	59-26324	51	Acidity, as CaCO3		32	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/11/2004	05/17/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	

Lab Data Muddy Springs

Spring/Str	DO	DOG	Lab_I	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	Sam	Sample	Comments
M_SP07	36	7	CTE	59-26324	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	53	Chloride (IC)		30	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	60	Sulfate (IC)		37	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	62	Alkalinity, Total (CaCO3)		440	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CTE	59-26324	62	Alkalinity, Total (CaCO3)		433	mg/l	5	SM2320-B	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	63	Hardness, (calc)		330	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CTE	59-26324	68	TDS		531	mg/l	10	EPA 160.1	05/13/2004	800	JJ	05/11/2004	05/17/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	133	Cation Sum		10	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	134	Anion Sum		10	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	145	Iron (T), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	149	Manganese (T), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	263	Calcium (T), as Ca		65	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	264	Magnesium (T), as Mg		42	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	265	Potassium (T), as K		2.1	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CHE	04-U004619	266	Sodium (T), as Na		86	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1530	04	AB	
M_SP07	36	7	CTE	59-26341	17	NO2+NO3, as N		0.14	mg/l	0.03	EPA 300.0	05/14/2004	1213	BLP	05/13/2004	05/17/2004	05/13/2004	1528	04	AB	
M_SP07	36	7	CTE	59-26341	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1213	BLP	05/13/2004	05/17/2004	05/13/2004	1528	04	AB	
M_SP07	36	7	CTE	59-26341	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/14/2004	1213	BLP	05/13/2004	05/17/2004	05/13/2004	1528	04	AB	
M_SP08	36	8	CTE	59-23150	0	Comments									08/31/2001	09/17/2001	08/29/2001	1608	04	ED	DIS.METALS FILTERED @ LAB
M_SP08	36	8	CTE	59-23150	50	Alkalinity, as Bicarbonate		340	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	53	Chloride (IC)		53	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	60	Sulfate (IC)		28	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	62	Alkalinity, Total (CaCO3)		279	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	67	Spec. Conductivity (lab)		1102	umhos/cm		SM2510-B	09/05/2001	810	CB	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	68	TDS		569	mg/l	10	EPA 160.1	09/04/2001	955	CB	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	145	Iron (T), as Fe		0.1	mg/l	0.1	EPA 236.1	09/06/2001	1040	MK	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	263	Calcium (T), as Ca		70	mg/l	1	EPA 215.1	09/06/2001	1558	MK	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	264	Magnesium (T), as Mg		39	mg/l	1	EPA 242.1	09/06/2001	1642	MK	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	09/06/2001	1329	MK	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23150	266	Sodium (T), as Na		91	mg/l	1	EPA 273.1	09/06/2001	1407	MK	08/31/2001	09/17/2001	08/29/2001	1608	04	ED	
M_SP08	36	8	CTE	59-23951	50	Alkalinity, as Bicarbonate		564	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CTE	59-23951	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CTE	59-23951	53	Chloride (IC)		52	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CTE	59-23951	60	Sulfate (IC)		33	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CTE	59-23951	62	Alkalinity, Total (CaCO3)		463	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CTE	59-23951	68	TDS		545	mg/l	10	EPA 160.1	05/07/2002	1130	DI	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CTE	59-23951	145	Iron (T), as Fe		0.8	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CTE	59-23951	263	Calcium (T), as Ca		71	mg/l	1	EPA 215.1	05/22/2002	1059	MK	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CTE	59-23951	264	Magnesium (T), as Mg		38	mg/l	1	EPA 242.1	05/22/2002	1222	MK	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CTE	59-23951	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	05/22/2002	901	MK	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CTE	59-23951	266	Sodium (T), as Na		101	mg/l	1	EPA 273.1	05/21/2002	923	MK	05/03/2002	05/02/2002	05/03/2002	0950	04	SC	
M_SP08	36	8	CHE	02-U009459	13	Temperature, Receiving		4.5	Deg. C	0.1	SM2550B	10/02/2002	1600	CSM	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	17	NO2+NO3, as N		0.14	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	32	Arsenic (D), as As		0.0014	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	34	Boron (D), as B		0.09	mg/l	0.05	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	36	Calcium (D), as Ca		68	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	42	Magnesium (D), as Mg		38	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	45	Potassium (D), as K		2.7	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	46	Selenium (D), as Se		0.0034	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	48	Sodium (D), as Na		86	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	50	Alkalinity, as Bicarbonate		520	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	50	Alkalinity, as Bicarbonate		517	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	51	Acidity, as CaCO3		7	mg/l	10	D1067-92	09/30/2002	1100	BLP	09/27/2002	10/07/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	53	Chloride (IC)		43	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	53	Chloride (IC)		43	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	60	Sulfate (IC)		24	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	60	Sulfate (IC)		23	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	62	Alkalinity, Total (CaCO3)		424	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	63	Hardness, (calc)		340	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CTE	59-24555	68	TDS		494	mg/l	10	EPA 160.1	09/30/2002	800	DI	09/27/2002	10/07/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	133	Cation Sum		11	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	134	Anion Sum		10	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	145	Iron (T), as Fe		0.02	mg/l	0.02	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	263	Calcium (T), as Ca		71	mg/l	0.2	EAP 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	264	Magnesium (T), as Mg		39	mg/l	0.2	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	265	Potassium (T), as K		2.8	mg/l	0.2	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	02-U009459	266	Sodium (T), as Na		90	mg/l	0.2	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/26/2002	1135	04	AB	
M_SP08	36	8	CHE	03-U004456	0	Comments									05/27/2003	06/12/2003	05/20/2003	1015	04	AB	Sample received on ice.
M_SP08	36	8	CHE	03-U004456	13	Temperature, Receiving		5	Deg. C	-20	SM 2550B Mod	05/27/2003	1710	SPS	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CTE	59-25177	17	NO2+NO3, as N		0.13	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/29/2003	1300	TSM	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	32	Arsenic (D), as As		0.0013	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	34	Boron (D), as B		0.08	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	36	Calcium (D), as Ca		69	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	42	Magnesium (D), as Mg		38	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	45	Potassium (D), as K		1.9	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	46	Selenium (D), as Se		0.0044	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	48	Sodium (D), as Na		110	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	50	Alkalinity, as Bicarbonate		560	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CTE	59-25177	51	Acidity, as CaCO3		21	mg/l	5	D1067-92	05/27/2003	1120	JJ	05/21/2003	05/28/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	53	Chloride (IC)		48	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CTE	59-25177	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CTE	59-25177	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	60	Sulfate (IC)		34	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	62	Alkalinity, Total (CaCO3)		460	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	63	Hardness, (calc)		330	mg/l	5	SM 2340B	06/12/2003	1000	LD	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CTE	59-25177	68	TDS		590	mg/l	10	EPA 160.1	05/27/2003	0830	DI	05/21/2003	05/28/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	133	Cation Sum		11	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	134	Anion Sum		11	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	145	Iron (T), as Fe		0.03	mg/l	0.02	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	263	Calcium (T), as Ca		71	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	264	Magnesium (T), as Mg		39	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	265	Potassium (T), as K		2.1	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U004456	266	Sodium (T), as Na		110	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1015	04	AB	
M_SP08	36	8	CHE	03-U007018	0	Comments									08/12/2003	08/25/2003	08/05/2003	1345	04	AB	Sample received on ice.
M_SP08	36	8	CHE	03-U007018	13	Temperature, Receiving		7	Deg. C	-20	SM 2550B Mod	08/12/2003	1420	SPS	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CTE	59-25525	17	NO2+NO3, as N		0.18	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	32	Arsenic (D), as As		0.0013	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	

Lab Data Muddy Springs

Spring/Stre	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP08	36	8	CHE	03-U007018	34	Boron (D), as B		0.08	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	36	Calcium (D), as Ca		65	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	42	Magnesium (D), as Mg		36	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	43	Manganese (D), as Mn		0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	45	Potassium (D), as K		2.3	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	46	Selenium (D), as Se		0.0028	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	48	Sodium (D), as Na		87	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	50	Alkalinity, as Bicarbonate		550	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CTE	59-25525	50	Alkalinity, as Bicarbonate		521	mg/l	5	EPA 310.1	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CTE	59-25525	51	Acidity, as CaCO3		35	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CTE	59-25525	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	53	Chloride (IC)		40	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CTE	59-25525	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CTE	59-25525	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	60	Sulfate (IC)		28	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	62	Alkalinity, Total (CaCO3)		450	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CTE	59-25525	62	Alkalinity, Total (CaCO3)		427	mg/l	5	SM2320-B	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	63	Hardness, (calc)		310	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CTE	59-25525	68	TDS		501	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	133	Cation Sum		10	meq/l	0.1	ASTM D-596	08/20/2003	1437	RIF	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	134	Anion Sum		11	meq/l	0.1	ASTM D-596	08/20/2003	1437	RIF	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	145	Iron (T), as Fe		1.4	mg/l	0.02	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	149	Manganese (T), as Mn		0.05	mg/l	0.01	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	263	Calcium (T), as Ca		75	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U007018	264	Magnesium (T), as Mg		39	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/05/2003	1345	04	AB	
M_SP08	36	8	CHE	03-U009446	0	Comments									10/10/2003	10/24/2003	10/07/2003	1350	04	AB	Sample received on ice.
M_SP08	36	8	CHE	03-U009446	13	Temperature, Receiving		5	Deg. C	-20	SM 2550B Mod	10/10/2003	1155	SPS	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	17	NO2+NO3, as N		0.07	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	32	Arsenic (D), as As		0.0011	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	34	Boron (D), as B		0.07	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	36	Calcium (D), as Ca		67	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	40	Iron (D), as Fe		0.07	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	42	Magnesium (D), as Mg		37	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	43	Manganese (D), as Mn		0.02	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	45	Potassium (D), as K		2.1	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	46	Selenium (D), as Se		0.0021	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	48	Sodium (D), as Na		90	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	50	Alkalinity,as Bicarbonate		526	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	51	Acidity, as CaCO3		15	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	52	Alkalinity, as Carbonate	<	5	mg/l	5,	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	53	Chloride (IC)		37	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	60	Sulfate (IC)		24	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	62	Alkalinity, Total (CaCO3)		431	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	63	Hardness, (calc)		320	mg/l	1	SM 2340B	10/24/2003	630	DWG	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CTE	59-25792	68	TDS		238	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	145	Iron (T), as Fe		0.94	mg/l	0.02	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	149	Manganese (T), as Mn		0.03	mg/l	0.01	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	263	Calcium (T), as Ca		69	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	264	Magnesium (T), as Mg		37	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	265	Potassium (T), as K		2.4	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	03-U009446	266	Sodium (T), as Na		85	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/07/2003	1350	04	AB	
M_SP08	36	8	CHE	04-U004618	0	Comments									05/17/2004	05/27/2004	05/10/2004	1325	04	AB	Sample received on ice.
M_SP08	36	8	CHE	04-U004618	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B Mod	05/17/2004	1557	SPS	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	32	Arsenic (D), as As		0.0012	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	34	Boron (D), as B		0.11	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	36	Calcium (D), as Ca		67	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	42	Magnesium (D), as Mg		37	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	45	Potassium (D), as K		2.5	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	46	Selenium (D), as Se		0.0033	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	48	Sodium (D), as Na		120	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	49	Zinc (D), as Zn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	50	Alkalinity, as Bicarbonate		570	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26325	50	Alkalinity, as Bicarbonate		564	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26325	51	Acidity, as CaCO3		18	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/11/2004	05/17/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26325	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	53	Chloride (IC)		60	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	60	Sulfate (IC)		44	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	62	Alkalinity, Total (CaCO3)		470	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26325	62	Alkalinity, Total (CaCO3)		462	mg/l	5	SM2320-B	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	63	Hardness, (calc)		320	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26325	68	TDS		651	mg/l	10	EPA 160.1	05/13/2004	800	JJ	05/11/2004	05/17/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	133	Cation Sum		12	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	134	Anion Sum		12	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	145	Iron (T), as Fe		0.23	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	149	Manganese (T), as Mn		0.01	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	263	Calcium (T), as Ca		69	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	264	Magnesium (T), as Mg		38	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	265	Potassium (T), as K		6.7	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CHE	04-U004618	266	Sodium (T), as Na		120	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/10/2004	1325	04	AB	
M_SP08	36	8	CTE	59-26343	17	NO2+NO3, as N		0.11	mg/l	0.03	EPA 300.0	05/14/2004	1240	BLP	05/13/2004	05/17/2004	05/13/2004	1512	04	AB	
M_SP08	36	8	CTE	59-26343	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1240	BLP	05/13/2004	05/17/2004	05/13/2004	1512	04	AB	
M_SP08	36	8	CTE	59-26343	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/14/2004	1240	BLP	05/13/2004	05/17/2004	05/13/2004	1512	04	AB	
M_SP10	36	10	CTE	59-23147	0	Comments									08/31/2001	09/17/2001	08/28/2001	1614	04	ED	DIS.METALS FILTERED @ LAB
M_SP10	36	10	CTE	59-23147	50	Alkalinity, as Bicarbonate		428	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	53	Chloride (IC)		85	mg/l	0.5	EPA 300.0	09/11/2001	1000	CB	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	60	Sulfate (IC)		29	mg/l	0.5	EPA 300.0	09/11/2001	1000	CB	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	62	Alkalinity, Total (CaCO3)		351	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	67	Spec. Conductivity (lab)		1047	umhos/cm		SM2510-B	09/05/2001	810	CB	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	68	TDS		531	mg/l	10	EPA 160.1	09/04/2001	955	CB	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	09/06/2001	1040	MK	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	263	Calcium (T), as Ca		48	mg/l	1	EPA 215.1	09/06/2001	1558	MK	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	264	Magnesium (T), as Mg		40	mg/l	1	EPA 242.1	09/06/2001	1642	MK	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	09/06/2001	1329	MK	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23147	266	Sodium (T), as Na		93	mg/l	1	EPA 273.1	09/06/2001	1407	MK	08/31/2001	09/17/2001	08/28/2001	1614	04	ED	
M_SP10	36	10	CTE	59-23954	50	Alkalinity, as Bicarbonate		429	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	53	Chloride (IC)		75	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	

Lab Data Muddy Springs

Spring/Stre	DO(	DOG	Lab_	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP10	36	10	CTE	59-23954	60	Sulfate (IC)		29	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	62	Alkalinity, Total (CaCO3)		352	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	68	TDS		469	mg/l	10	EPA 160.1	05/07/2002	1130	DI	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	263	Calcium (T), as Ca		48	mg/l	1	EPA 215.1	05/22/2002	1059	MK	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	264	Magnesium (T), as Mg		39	mg/l	1	EPA 242.1	05/22/2002	1222	MK	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	05/22/2002	901	MK	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	
M_SP10	36	10	CTE	59-23954	266	Sodium (T), as Na		82	mg/l	1	EPA 273.1	05/21/2002	923	MK	05/03/2002	05/22/2002	05/01/2002	1900	04	SC	
M_SP10	36	10	CHE	02-U009457	13	Temperature, Receiving		4.5	Deg. C	0.1	SM2550B	10/02/2002	1600	CSM	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	17	NO2+NO3, as N		0.19	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	32	Arsenic (D), as As		0.0014	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	34	Boron (D), as B		0.06	mg/l	0.05	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	36	Calcium (D), as Ca		49	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	42	Magnesium (D), as Mg		40	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	45	Potassium (D), as K		2.5	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	46	Selenium (D), as Se		0.0054	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	48	Sodium (D), as Na		84	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	50	Alkalinity, as Bicarbonate		420	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	50	Alkalinity, as Bicarbonate		403	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	51	Acidity, as CaCO3		8	mg/l	10	D1067-92	09/30/2002	1100	BLP	09/27/2002	10/07/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	53	Chloride (IC)		70	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	53	Chloride (IC)		68	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	60	Sulfate (IC)		27	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	60	Sulfate (IC)		25	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	62	Alkalinity, Total (CaCO3)		330	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	63	Hardness, (calc)		290	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CTE	59-24552	68	TDS		456	mg/l	10	EPA 160.1	09/30/2002	800	DI	09/27/2002	10/07/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	113	Aluminum (D), as Al		0.06	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	133	Cation Sum		9.5	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	134	Anion Sum		9.4	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	263	Calcium (T), as Ca		49	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	264	Magnesium (T), as Mg		40	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	265	Potassium (T), as K		2.5	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U009457	266	Sodium (T), as Na		84	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1055	04	AB	
M_SP10	36	10	CHE	02-U011439	0	Comments									11/19/2002	12/02/2002	11/13/2002	1030	04	AB	Sample received on ice.
M_SP10	36	10	CHE	02-U011439	13	Temperature, Receiving		2	Deg. C	0.1	SM2550-B MOD	11/19/2002	1700	SPS	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	17	NO2+NO3, as N		0.22	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500FG	11/20/2002	1330	TSM	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	34	Boron (D), as B		0.05	mg/l	0.05	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	36	Calcium (D), as Ca		47	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	42	Magnesium (D), as Mg		38	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	45	Potassium (D), as K		2.4	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	48	Sodium (D), as Na		80	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	50	Alkalinity, as Bicarbonate		420	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	50	Alkalinity, as Bicarbonate		512	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	51	Acidity, as CaCO3		14	mg/l	10	D1067-92	11/14/2002	800	JJ	11/14/2002	11/25/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	53	Chloride (IC)		73	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	60	Sulfate (IC)		27	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	62	Alkalinity, Total (CaCO3)		420	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	63	Hardness, (calc)		270	mg/l	0.2	SM 2340-B	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CTE	59-24803	68	TDS		448	mg/l	10	EPA 160.1	11/18/2002	745	JJ	11/14/2002	11/25/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	113	Aluminum (D), as Al		0.04	mg/l	0.03	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	133	Cation Sum		9	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	134	Anion Sum		9.5	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	263	Calcium (T), as Ca		48	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	02-U011439	264	Magnesium (T), as Mg		39	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1030	04	AB	
M_SP10	36	10	CHE	03-U004455	0	Comments									05/27/2003	06/12/2003	05/20/2003	1716	04	ED	Sample received on ice.
M_SP10	36	10	CHE	03-U004455	13	Temperature, Receiving		5	Deg. C	-20	SM 2550B Mod	05/27/2003	1710	SPS	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CTE	59-25181	17	NO2+NO3, as N		0.17	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/29/2003	1300	TSM	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	32	Arsenic (D), as As		0.001	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	34	Boron (D), as B		0.06	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	36	Calcium (D), as Ca		49	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	42	Magnesium (D), as Mg		40	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	45	Potassium (D), as K		2.5	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	46	Selenium (D), as Se		0.0036	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	48	Sodium (D), as Na		92	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	50	Alkalinity, as Bicarbonate		440	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CTE	59-25181	51	Acidity, as CaCO3		18	mg/l	5	D1067-92	05/27/2003	1120	JJ	05/21/2003	05/28/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004456	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1015	04	ED	
M_SP10	36	10	CHE	03-U004455	53	Chloride (IC)		66	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CTE	59-25181	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CTE	59-25181	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	60	Sulfate (IC)		28	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	62	Alkalinity, Total (CaCO3)		360	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	63	Hardness, (calc)		290	mg/l	5	SM 2340B	06/12/2003	1000	LD	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CTE	59-25181	68	TDS		510	mg/l	10	EPA 160.1	05/27/2003	0830	DI	05/21/2003	05/28/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	133	Cation Sum		9.8	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	134	Anion Sum		9.7	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	263	Calcium (T), as Ca		51	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	264	Magnesium (T), as Mg		41	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	265	Potassium (T), as K		2.6	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U004455	266	Sodium (T), as Na		93	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1716	04	ED	
M_SP10	36	10	CHE	03-U007017	0	Comments									08/12/2003	08/25/2003	08/05/2003	0956	04	AB	Sample received on ice.
M_SP10	36	10	CHE	03-U007017	13	Temperature, Receiving		6	Deg. C	-20	SM 2550B Mod	08/12/2003	1420	SPS	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	

Lab Data Muddy Springs

Spring/Stre	DO(	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP10	36	10	CTE	59-25533	17	NO2+NO3, as N		0.16	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	32	Arsenic (D), as As		0.0008	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	34	Boron (D), as B		0.05	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	36	Calcium (D), as Ca		46	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	42	Magnesium (D), as Mg		38	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	45	Potassium (D), as K		2.3	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	46	Selenium (D), as Se		0.0035	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	48	Sodium (D), as Na		84	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	50	Alkalinity, as Bicarbonate		430	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CTE	59-25533	50	Alkalinity, as Bicarbonate		409	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CTE	59-25533	51	Acidity, as CaCO3		22	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	52	Alkalinity, as Carbonate		4	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CTE	59-25533	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	53	Chloride (IC)		67	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CTE	59-25533	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CTE	59-25533	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	60	Sulfate (IC)		27	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	62	Alkalinity, Total (CaCO3)		360	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CTE	59-25533	62	Alkalinity, Total (CaCO3)		335	mg/l	5	SM2320-B	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	63	Hardness, (calc)		270	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CTE	59-25533	68	TDS		420	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	133	Cation Sum		9.1	meq/l	0.1	ASTM D-596	08/20/2003	1436	RIF	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	134	Anion Sum		9.6	meq/l	0.1	ASTM D-596	08/20/2003	1436	RIF	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	263	Calcium (T), as Ca		46	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U007017	264	Magnesium (T), as Mg		38	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/05/2003	0956	04	AB	
M_SP10	36	10	CHE	03-U009445	0	Comments									10/10/2003	10/24/2003	10/07/2003	1050	04	AB	Sample received on ice.
M_SP10	36	10	CHE	03-U009445	13	Temperature, Receiving		6	Deg. C	-20	SM 2550B Mod	10/10/2003	1155	SPS	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	17	NO2+NO3, as N		0.21	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	32	Arsenic (D), as As		0.0007	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	34	Boron (D), as B		0.05	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	36	Calcium (D), as Ca		49	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	42	Magnesium (D), as Mg		39	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	45	Potassium (D), as K		2.5	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	46	Selenium (D), as Se		0.0036	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	48	Sodium (D), as Na		86	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	50	Alkalinity,as Bicarbonate		415	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	51	Acidity, as CaCO3		10	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	53	Chloride (IC)		62	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	60	Sulfate (IC)		24	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	62	Alkalinity, Total (CaCO3)		340	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	63	Hardness, (calc)		280	mg/l	1	SM 2340B	10/24/2003	630	DWG	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CTE	59-25793	68	TDS		464	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	263	Calcium (T), as Ca		49	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	264	Magnesium (T), as Mg		39	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	265	Potassium (T), as K		2.5	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	03-U009445	266	Sodium (T), as Na		86	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1050	04	AB	
M_SP10	36	10	CHE	04-U004620	0	Comments									05/17/2004	05/27/2004	05/10/2004	1845	04	AB	Sample received on ice.
M_SP10	36	10	CHE	04-U004620	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B Mod	05/17/2004	1557	SPS	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	32	Arsenic (D), as As		0.001	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	34	Boron (D), as B		0.06	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	36	Calcium (D), as Ca		51	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	42	Magnesium (D), as Mg		41	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	45	Potassium (D), as K		2.4	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	46	Selenium (D), as Se		0.0031	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	48	Sodium (D), as Na		98	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	49	Zinc (D), as Zn		0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	50	Alkalinity, as Bicarbonate		460	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26326	50	Alkalinity, as Bicarbonate		468	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26326	51	Acidity, as CaCO3		14	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/11/2004	05/17/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	52	Alkalinity, as Carbonate	<	2	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26326	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	53	Chloride (IC)		69	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	60	Sulfate (IC)		30	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	62	Alkalinity, Total (CaCO3)		380	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26326	62	Alkalinity, Total (CaCO3)		384	mg/l	5	SM2320-B	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	63	Hardness, (calc)		300	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26326	68	TDS		473	mg/l	10	EPA 160.1	05/13/2004	800	JJ	05/11/2004	05/17/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	133	Cation Sum		10	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	134	Anion Sum		10	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	145	Iron (T), as Fe		0.11	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	149	Manganese (T), as Mn		0.02	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	263	Calcium (T), as Ca		52	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	264	Magnesium (T), as Mg		41	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	265	Potassium (T), as K		2.5	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CHE	04-U004620	266	Sodium (T), as Na		99	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/10/2004	1845	04	AB	
M_SP10	36	10	CTE	59-26344	17	NO2+NO3, as N		0.18	mg/l	0.03	EPA 300.0	05/14/2004	1253	BLP	05/13/2004	05/17/2004	05/13/2004	1207	04	AB	
M_SP10	36	10	CTE	59-26344	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1253	BLP	05/13/2004	05/17/2004	05/13/2004	1207	04	AB	
M_SP10	36	10	CTE	59-26344	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/14/2004	1253	BLP	05/13/2004	05/17/2004	05/13/2004	1207	04	AB	
M_SP14	36	14	CTE	59-23153	0	Comments									08/31/2001	09/17/2001	08/29/2001	1956	04	ED	DIS.METALS FILTERED @ LAB
M_SP14	36	14	CTE	59-23153	50	Alkalinity, as Bicarbonate		526	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	53	Chloride (IC)		3	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	60	Sulfate (IC)		6	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	62	Alkalinity, Total (CaCO3)		431	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	67	Spec. Conductivity (lab)		685	umhos/cm		SM2510-B	09/05/2001	810	CB	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	68	TDS		358	mg/l	10	EPA 160.1	09/04/2001	955	CB	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	09/06/2001	1040	MK	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	263	Calcium (T), as Ca		81	mg/l	1	EPA 215.1	09/06/2001	1558	MK	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	264	Magnesium (T), as Mg		25	mg/l	1	EPA 242.1	09/06/2001	1642	MK	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	265	Potassium (T), as K	<	1	mg/l	1	EPA 258.1	09/06/2001	1329	MK	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	
M_SP14	36	14	CTE	59-23153	266	Sodium (T), as Na		15	mg/l	1	EPA 273.1	09/06/2001	1407	MK	08/31/2001	09/17/2001	08/29/2001	1956	04	ED	

Lab Data Muddy Springs

Spring/Strt	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP14	36	14	CTE	59-23950	50	Alkalinity, as Bicarbonate		392	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CTE	59-23950	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CTE	59-23950	53	Chloride (IC)		3	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CTE	59-23950	60	Sulfate (IC)		6	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CTE	59-23950	62	Alkalinity, Total (CaCO3)		321	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CTE	59-23950	68	TDS		300	mg/l	10	EPA 160.1	05/07/2002	1130	DI	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CTE	59-23950	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CTE	59-23950	263	Calcium (T), as Ca		78	mg/l	1	EPA 215.1	05/22/2002	1059	MK	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CTE	59-23950	264	Magnesium (T), as Mg		24	mg/l	1	EPA 242.1	05/22/2002	1222	MK	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CTE	59-23950	265	Potassium (T), as K	<	1	mg/l	1	EPA 258.1	05/22/2002	901	MK	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CTE	59-23950	266	Sodium (T), as Na		15	mg/l	1	EPA 273.1	05/21/2002	923	MK	05/03/2002	05/22/2002	05/02/2002	1300	04	ED	
M_SP14	36	14	CHE	03-U004457	0	Comments									05/27/2003	06/12/2003	05/20/2003	1240	04	ED	Sample received on ice.
M_SP14	36	14	CHE	03-U004457	13	Temperature, Receiving		3	Deg. C	-20	SM 2550B Mod	05/27/2003	1710	SPS	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CTE	59-25179	17	NO2+NO3, as N		0.32	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/29/2003	1300	TSM	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	32	Arsenic (D), as As		0.0007	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	36	Calcium (D), as Ca		79	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	42	Magnesium (D), as Mg		25	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	45	Potassium (D), as K		0.7	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	46	Selenium (D), as Se		0.0005	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	48	Sodium (D), as Na		16	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	50	Alkalinity, as Bicarbonate		390	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CTE	59-25179	51	Acidity, as CaCO3		13	mg/l	5	D1067-92	05/27/2003	1120	JJ	05/21/2003	05/28/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	53	Chloride (IC)		2.1	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CTE	59-25179	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CTE	59-25179	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	60	Sulfate (IC)		6.1	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	62	Alkalinity, Total (CaCO3)		320	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	63	Hardness, (calc)		300	mg/l	5	SM 2340B	06/12/2003	1000	LD	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CTE	59-25179	68	TDS		349	mg/l	10	EPA 160.1	05/27/2003	0830	DI	05/21/2003	05/28/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	133	Cation Sum		6.7	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	134	Anion Sum		6.6	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	263	Calcium (T), as Ca		80	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	264	Magnesium (T), as Mg		25	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	265	Potassium (T), as K		0.7	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	03-U004457	266	Sodium (T), as Na		17	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1240	04	ED	
M_SP14	36	14	CHE	04-U005531	0	Comments									06/07/2004	06/11/2004	06/06/2004	1307	04	ED	Sample received on ice.
M_SP14	36	14	CHE	04-U005531	13	Temperature, Receiving		22	Deg. C	-20	SM 2550B Mod	06/07/2004	0950	SPS	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	17	NO2+NO3, as N		0.2	mg/l	0.03	EPA 300.0	06/08/2004	410	DI	06/06/2004	06/14/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500D	06/11/2004	1000	TSM	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	32	Arsenic (D), as As		0.0008	mg/l	0.0005	EPA 200.8	06/09/2004	1317	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	36	Calcium (D), as Ca		77	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	42	Magnesium (D), as Mg		24	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	45	Potassium (D), as K		0.8	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	46	Selenium (D), as Se	<	0.0005	mg/l	0.0005	EPA 200.8	06/09/2004	1317	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	48	Sodium (D), as Na		15	mg/l	0.2	EPA 200.7	06/10/2004	1024	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	50	Alkalinity, as Bicarbonate		360	mg/l	5	EPA 310.1	06/10/2004	1137	BLP	06/06/2004	06/14/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	51	Acidity, as CaCO3		7	mg/l	5	D1067-92	06/11/2004	945	BLP	06/06/2004	06/14/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	06/10/2004	1137	BLP	06/06/2004	06/14/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	53	Chloride (IC)		3.3	mg/l	1	EPA 300.0	06/08/2004	1100	TSM	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	57	Nitrite, as N	<	0.05	mg/l	0.05	EPA 300.0	06/08/2004	410	DI	06/06/2004	06/14/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	58	Orthophosphate		0.09	mg/l	0.05	EPA 300.0	06/08/2004	410	DI	06/06/2004	06/14/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	60	Sulfate (IC)		7.6	mg/l	1	EPA 300.0	06/08/2004	1100	TSM	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	62	Alkalinity, Total (CaCO3)		295	mg/l	5	SM2320-B	06/10/2004	1137	BLP	06/06/2004	06/14/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	63	Hardness, (calc)		290	mg/l	5	SM 2340B	06/11/2004	1000	LD	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CTE	59-26441	68	TDS		338	mg/l	10	EPA 160.1	06/08/2004	900	DI	06/06/2004	06/14/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	113	Aluminum (D), as Al	<	0.1	mg/l	0.1	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	263	Calcium (T), as Ca		77	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	264	Magnesium (T), as Mg		24	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	265	Potassium (T), as K		0.8	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP14	36	14	CHE	04-U005531	266	Sodium (T), as Na		15	mg/l	0	EPA 200.7	06/10/2004	1024	MJB	06/07/2004	06/11/2004	06/06/2004	1307	04	ED	
M_SP18	36	18	CTE	59-23148	0	Comments									08/31/2001	09/17/2001	08/28/2001	1845	04	ED	DIS.METALS FILTERED @ LAB
M_SP18	36	18	CTE	59-23148	50	Alkalinity, as Bicarbonate		431	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	53	Chloride (IC)		833	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	60	Sulfate (IC)		261	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	62	Alkalinity, Total (CaCO3)		353	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	67	Spec. Conductivity (lab)		1432	umhos/cm		SM2510-B	09/05/2001	810	CB	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	68	TDS		865	mg/l	10	EPA 160.1	09/04/2001	955	CB	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	145	Iron (T), as Fe		0.2	mg/l	0.1	EPA 236.1	09/06/2001	1040	MK	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	263	Calcium (T), as Ca		115	mg/l	1	EPA 215.1	09/06/2001	1558	MK	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	264	Magnesium (T), as Mg		41	mg/l	1	EPA 242.1	09/06/2001	1642	MK	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	265	Potassium (T), as K		5	mg/l	1	EPA 258.1	09/06/2001	1329	MK	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23148	266	Sodium (T), as Na		90	mg/l	1	EPA 273.1	09/06/2001	1407	MK	08/31/2001	09/17/2001	08/28/2001	1845	04	ED	
M_SP18	36	18	CTE	59-23957	50	Alkalinity, as Bicarbonate		346	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	53	Chloride (IC)		70	mg/l	1	EPA 300.0	05/16/2002	1218	SC	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	60	Sulfate (IC)		316	mg/l	1	EPA 300.0	05/16/2002	1218	SC	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	62	Alkalinity, Total (CaCO3)		284	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	68	TDS		868	mg/l	10	EPA 160.1	05/07/2002	1130	DI	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	145	Iron (T), as Fe		0.7	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	263	Calcium (T), as Ca		122	mg/l	1	EPA 215.1	05/22/2002	1059	MK	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	264	Magnesium (T), as Mg		42	mg/l	1	EPA 242.1	05/22/2002	1222	MK	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	265	Potassium (T), as K		5	mg/l	1	EPA 258.1	05/22/2002	901	MK	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CTE	59-23957	266	Sodium (T), as Na		87	mg/l	1	EPA 273.1	05/21/2002	923	MK	05/03/2002	05/22/2002	05/01/2002	1430	04	SC	
M_SP18	36	18	CHE	03-U004458	0	Comments									05/27/2003	06/12/2003	05/20/2003	1530	04	ED	Sample received on ice.
M_SP18	36	18	CHE	03-U004458	13	Temperature, Receiving		2.5	Deg. C	-20	SM 2550B Mod	05/27/2003	1710	SPS	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CTE	59-25180	17	NO2+NO3, as N		0.08	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/29/2003	1300	TSM	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	32	Arsenic (D), as As		0.0015	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	34	Boron (D), as B		0.06	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	36	Calcium (D), as Ca		130	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	40	Iron (D), as Fe		0.03	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	42	Magnesium (D), as Mg		45	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	43	Manganese (D), as Mn		0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	45	Potassium (D), as K		5.2	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	46	Selenium (D), as Se		0.0044	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	48	Sodium (D), as Na		96	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	50	Alkalinity, as Bicarbonate		350	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	

Lab Data Muddy Springs

Spring/Str	DO(	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP18	36	18	CTE	59-25180	51	Acidity, as CaCO3		16	mg/l	5	D1067-92	05/27/2003	1120	JJ	05/21/2003	05/28/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	53	Chloride (IC)		73	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CTE	59-25180	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CTE	59-25180	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	60	Sulfate (IC)		260	mg/l	1	EPA 300.0	06/03/2003	1545	CSM	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	62	Alkalinity, Total (CaCO3)		290	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	63	Hardness, (calc)		510	mg/l	5	SM 2340B	06/12/2003	1000	LD	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CTE	59-25180	68	TDS		879	mg/l	10	EPA 160.1	05/27/2003	0830	DI	05/21/2003	05/28/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	133	Cation Sum		14	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	134	Anion Sum		13	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	145	Iron (T), as Fe		37	mg/l	0.02	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	149	Manganese (T), as Mn		0.24	mg/l	0.01	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	263	Calcium (T), as Ca		130	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	264	Magnesium (T), as Mg		45	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	265	Potassium (T), as K		5.7	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CHE	03-U004458	266	Sodium (T), as Na		96	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1530	04	ED	
M_SP18	36	18	CTE	59-25528	17	NO2+NO3, as N		0.07	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/06/2003	0752	04	AB	
M_SP18	36	18	CTE	59-25528	50	Alkalinity, as Bicarbonate		344	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/06/2003	0752	04	AB	
M_SP18	36	18	CTE	59-25528	51	Acidity, as CaCO3		13	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/06/2003	0752	04	AB	
M_SP18	36	18	CTE	59-25528	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/06/2003	0752	04	AB	
M_SP18	36	18	CTE	59-25528	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/06/2003	0752	04	AB	
M_SP18	36	18	CTE	59-25528	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/06/2003	0752	04	AB	
M_SP18	36	18	CTE	59-25528	62	Alkalinity, Total (CaCO3)		282	mg/l	5	SM2320-B	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/06/2003	0752	04	AB	
M_SP18	36	18	CTE	59-25528	68	TDS		830	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/06/2003	0752	04	AB	
M_SP18	36	18	CHE	03-U007013	0	Comments									08/12/2003	08/25/2003	08/08/2003	1955	04	AB	Sample received on ice.
M_SP18	36	18	CHE	03-U007013	13	Temperature, Receiving		7	Deg. C	-20	SM 2550B Mod	08/12/2003	1420	SPS	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	32	Arsenic (D), as As		0.001	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	34	Boron (D), as B		0.08	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	36	Calcium (D), as Ca		120	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	40	Iron (D), as Fe		0.04	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	42	Magnesium (D), as Mg		41	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	43	Manganese (D), as Mn		0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	45	Potassium (D), as K		5.1	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	46	Selenium (D), as Se		0.003	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	48	Sodium (D), as Na		88	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	50	Alkalinity, as Bicarbonate		350	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	53	Chloride (IC)		78	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	60	Sulfate (IC)		300	mg/l	1	EPA 300.0	08/14/2003	1700	TSM	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	62	Alkalinity, Total (CaCO3)		290	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	63	Hardness, (calc)		470	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	133	Cation Sum		13	meq/l	0.1	ASTM D-596	08/20/2003	1432	RIF	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	134	Anion Sum		14	meq/l	0.1	ASTM D-596	08/20/2003	1432	RIF	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	145	Iron (T), as Fe		0.07	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	263	Calcium (T), as Ca		120	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U007013	264	Magnesium (T), as Mg		42	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/08/2003	1955	04	AB	
M_SP18	36	18	CHE	03-U009447	0	Comments									10/10/2003	10/24/2003	10/06/2003	1800	04	AB	Sample received on ice.
M_SP18	36	18	CHE	03-U009447	13	Temperature, Receiving		5	Deg. C	-20	SM 2550B Mod	10/10/2003	1155	SPS	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	17	NO2+NO3, as N		0.07	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	32	Arsenic (D), as As		0.0007	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	34	Boron (D), as B		0.08	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	36	Calcium (D), as Ca		120	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	40	Iron (D), as Fe		0.08	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	42	Magnesium (D), as Mg		42	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	45	Potassium (D), as K		5.2	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	46	Selenium (D), as Se		0.0032	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	48	Sodium (D), as Na		90	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	50	Alkalinity,as Bicarbonate		350	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	51	Acidity, as CaCO3		11	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	53	Chloride (IC)		72	mg/l	5	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	60	Sulfate (IC)		300	mg/l	5	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	62	Alkalinity, Total (CaCO3)		287	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	63	Hardness, (calc)		470	mg/l	1	SM 2340B	10/24/2003	630	DWG	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CTE	59-25794	68	TDS		876	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	145	Iron (T), as Fe		0.57	mg/l	0.02	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	149	Manganese (T), as Mn		0.01	mg/l	0.01	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	263	Calcium (T), as Ca		140	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	264	Magnesium (T), as Mg		46	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	265	Potassium (T), as K		5.6	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	03-U009447	266	Sodium (T), as Na		100	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/24/2003	10/06/2003	1800	04	AB	
M_SP18	36	18	CHE	04-U004623	0	Comments									05/17/2004	05/27/2004	05/11/2004	1825	04	AB	Sample received on ice.
M_SP18	36	18	CHE	04-U004623	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B Mod	05/17/2004	1557	SPS	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	17	NO2+NO3, as N		0.08	mg/l	0.03	EPA 300.0	05/13/2004	1416	BLP	05/13/2004	05/24/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	32	Arsenic (D), as As		0.0029	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	34	Boron (D), as B		0.07	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	36	Calcium (D), as Ca		130	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	42	Magnesium (D), as Mg		44	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	45	Potassium (D), as K		5.2	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	46	Selenium (D), as Se		0.0088	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	48	Sodium (D), as Na		96	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	49	Zinc (D), as Zn		0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	50	Alkalinity, as Bicarbonate		350	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	50	Alkalinity, as Bicarbonate		329	mg/l	5	EPA 310.1	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	51	Acidity, as CaCO3		12	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/13/2004	05/24/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	53	Chloride (IC)		81	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/13/2004	1416	BLP	05/13/2004	05/24/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/13/2004	1416	BLP	05/13/2004	05/24/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	60	Sulfate (IC)		330	mg/L	1	EPA 300.0	05/18/2004	1700	TSM	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	62	Alkalinity, Total (CaCO3)		290	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	62	Alkalinity, Total (CaCO3)		270	mg/l	5	SM2320-B	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	63	Hardness, (calc)		510	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CTE	59-26334	68	TDS		883	mg/l	10	EPA 160.1	05/17/2004	800	JJ	05/13/2004	05/24/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	

Lab Data Muddy Springs

Spring/Stre	DO(	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP18	36	18	CHE	04-U004623	133	Cation Sum		14	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	134	Anion Sum		15	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	145	Iron (T), as Fe		1.2	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	149	Manganese (T), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	263	Calcium (T), as Ca		130	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	264	Magnesium (T), as Mg		44	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	265	Potassium (T), as K		6.6	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP18	36	18	CHE	04-U004623	266	Sodium (T), as Na		95	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/27/2004	05/11/2004	1825	04	AB	
M_SP38	36	38	CTE	59-23149	0	Comments									08/31/2001	09/17/2001	08/29/2001	1052	04	ED	DIS.METALS FILTERED @ LAB
M_SP38	36	38	CTE	59-23149	50	Alkalinity, as Bicarbonate		353	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	53	Chloride (IC)		3	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	60	Sulfate (IC)		14	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	62	Alkalinity, Total (CaCO3)		289	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	67	Spec. Conductivity (lab)		594	umhos/cm		SM2510-B	09/05/2001	810	CB	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	68	TDS		313	mg/l	10	EPA 160.1	09/04/2001	955	CB	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	09/06/2001	1040	MK	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	263	Calcium (T), as Ca		38	mg/l	1	EPA 215.1	09/06/2001	1558	MK	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	264	Magnesium (T), as Mg		22	mg/l	1	EPA 242.1	09/06/2001	1642	MK	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	265	Potassium (T), as K	<	1	mg/l	1	EPA 258.1	09/06/2001	1329	MK	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-23149	266	Sodium (T), as Na		49	mg/l	1	EPA 273.1	09/06/2001	1407	MK	08/31/2001	09/17/2001	08/29/2001	1052	04	ED	
M_SP38	36	38	CTE	59-24013	17	NO2+NO3, as N		0.17	mg/l	0.03	EPA 300.0	05/28/2002	1300	SC	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	50	Alkalinity, as Bicarbonate		332	mg/l	5	EPA 310.1	05/31/2002	840	SC	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/31/2002	840	SC	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	53	Chloride (IC)		3	mg/l	1	EPA 300.0	05/28/2002	1300	SC	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	60	Sulfate (IC)		15	mg/l	1	EPA 300.0	05/28/2002	1300	SC	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	61	Phosphorus, Total		0.07	mg/l	0.05	SM4500-P-BE	06/06/2002	800	SC	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	62	Alkalinity, Total (CaCO3)		273	mg/l	5	EPA 310.1	05/31/2002	840	SC	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	68	TDS		311	mg/l	10	EPA 160.1	05/29/2002	1300	DI	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	06/06/2002	916	MK	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	263	Calcium (T), as Ca		39	mg/l	1	EPA 215.1	06/05/2002	834	MK	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	264	Magnesium (T), as Mg		23	mg/l	1	EPA 242.1	06/05/2002	920	MK	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	265	Potassium (T), as K	<	1	mg/l	1	EPA 258.1	06/05/2002	1048	MK	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CTE	59-24013	266	Sodium (T), as Na		49	mg/l	1	EPA 273.1	06/05/2002	1111	MK	05/27/2002	06/11/2002	05/26/2002	1740	04	SC	
M_SP38	36	38	CHE	02-U009461	13	Temperature, Receiving		3.5	Deg. C	0.1	SM2550B	10/02/2002	1600	CSM	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CTE	59-24557	17	NO2+NO3, as N		0.13	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	32	Arsenic (D), as As		0.0021	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	34	Boron (D), as B	<	0.05	mg/l	0.05	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	36	Calcium (D), as Ca		41	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	42	Magnesium (D), as Mg		24	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	45	Potassium (D), as K		1.2	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	46	Selenium (D), as Se		0.0009	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	48	Sodium (D), as Na		52	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	49	Zinc (D), as Zn		0.05	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	50	Alkalinity, as Bicarbonate		340	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CTE	59-24557	50	Alkalinity, as Bicarbonate		327	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CTE	59-24557	51	Acidity, as CaCO3		6	mg/l	10	D1067-92	09/30/2002	1400	BLP	09/27/2002	10/07/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CTE	59-24557	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	53	Chloride (IC)		3.3	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CTE	59-24557	53	Chloride (IC)		3	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CTE	59-24557	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CTE	59-24557	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	60	Sulfate (IC)		17	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CTE	59-24557	60	Sulfate (IC)		15	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CTE	59-24557	62	Alkalinity, Total (CaCO3)		268	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	63	Hardness, (calc)		200	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CTE	59-24557	68	TDS		288	mg/l	10	EPA 160.1	09/30/2002	800	DI	09/27/2002	10/07/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	113	Aluminum (D), as Al		0.03	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	133	Cation Sum		6.3	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	134	Anion Sum		6	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	263	Calcium (T), as Ca		40	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	264	Magnesium (T), as Mg		24	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	265	Potassium (T), as K		1.1	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U009461	266	Sodium (T), as Na		52	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/26/2002	1844	04	ED	
M_SP38	36	38	CHE	02-U011435	0	Comments									11/19/2002	12/02/2002	11/13/2002	1430	04	JS	Sample received on ice.
M_SP38	36	38	CHE	02-U011435	13	Temperature, Receiving		2.5	Deg. C	0.1	SM2550-B MOD	11/19/2002	1700	SPS	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CTE	59-24799	17	NO2+NO3, as N		0.13	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500FG	11/20/2002	1330	TSM	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	32	Arsenic (D), as As		0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	34	Boron (D), as B	<	0.05	mg/l	0.05	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	36	Calcium (D), as Ca		37	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	42	Magnesium (D), as Mg		23	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	45	Potassium (D), as K		1	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	48	Sodium (D), as Na		48	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	49	Zinc (D), as Zn		0.02	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	50	Alkalinity, as Bicarbonate		340	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CTE	59-24799	50	Alkalinity, as Bicarbonate		322	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CTE	59-24799	51	Acidity, as CaCO3		9	mg/l	10	D1067-92	11/14/2002	800	JJ	11/14/2002	11/25/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CTE	59-24799	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	53	Chloride (IC)		3.3	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CTE	59-24799	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CTE	59-24799	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	60	Sulfate (IC)		18	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CTE	59-24799	62	Alkalinity, Total (CaCO3)		264	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	63	Hardness, (calc)		190	mg/l	0.2	SM 2340-B	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CTE	59-24799	68	TDS		282	mg/l	10	EPA 160.1	11/18/2002	745	JJ	11/14/2002	11/25/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	113	Aluminum (D), as Al		0.03	mg/l	0.03	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	133	Cation Sum		5.8	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	134	Anion Sum		6	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	263	Calcium (T), as Ca		37	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	02-U011435	264	Magnesium (T), as Mg		23	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1430	04	JS	
M_SP38	36	38	CHE	03-U004459	0	Comments									05/27/2003	06/12/2003	05/20/2003	1000	04	ED	Sample received on ice.
M_SP38	36	38	CHE	03-U004459	13	Temperature, Receiving		4.5	Deg. C	-20	SM 2550B Mod	05/27/2003	1710	SPS	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CTE	59-25176	17	NO2+NO3, as N		0.2	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/29/2003	1300	TSM	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	32	Arsenic (D), as As		0.002	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	36	Calcium (D), as Ca		40	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	42	Magnesium (D), as Mg		24	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	45	Potassium (D), as K		1.2	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	

Lab Data Muddy Springs

Spring/Stre	DO(	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP38	36	38	CHE	03-U004459	46	Selenium (D), as Se		0.0009	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	48	Sodium (D), as Na		50	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	49	Zinc (D), as Zn		0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	50	Alkalinity, as Bicarbonate		330	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CTE	59-25176	51	Acidity, as CaCO3		11	mg/l	5	D1067-92	05/27/2003	1120	JJ	05/21/2003	05/28/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	53	Chloride (IC)		3.6	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CTE	59-25176	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CTE	59-25176	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	60	Sulfate (IC)		16	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	62	Alkalinity, Total (CaCO3)		270	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	63	Hardness, (calc)		200	mg/l	5	SM 2340B	06/12/2003	1000	LD	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CTE	59-25176	68	TDS		298	mg/l	10	EPA 160.1	05/27/2003	0830	DI	05/21/2003	05/28/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	133	Cation Sum		6.3	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	134	Anion Sum		5.8	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	263	Calcium (T), as Ca		40	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	264	Magnesium (T), as Mg		23	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	265	Potassium (T), as K		1.2	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U004459	266	Sodium (T), as Na		50	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1000	04	ED	
M_SP38	36	38	CHE	03-U007010	0	Comments									08/12/2003	08/25/2003	08/04/2003	1845	04	ED	Sample received on ice.
M_SP38	36	38	CHE	03-U007010	13	Temperature, Receiving		7	Deg. C	-20	SM 2550B Mod	08/12/2003	1420	SPS	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CTE	59-25532	17	NO2+NO3, as N		0.12	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	32	Arsenic (D), as As		0.0021	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	36	Calcium (D), as Ca		38	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	42	Magnesium (D), as Mg		22	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	45	Potassium (D), as K		1	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	46	Selenium (D), as Se		0.0006	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	48	Sodium (D), as Na		48	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	50	Alkalinity, as Bicarbonate		350	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CTE	59-25532	50	Alkalinity, as Bicarbonate		329	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CTE	59-25532	51	Acidity, as CaCO3		21	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CTE	59-25532	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	53	Chloride (IC)		3.3	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CTE	59-25532	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CTE	59-25532	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	60	Sulfate (IC)		17	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	62	Alkalinity, Total (CaCO3)		290	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CTE	59-25532	62	Alkalinity, Total (CaCO3)		270	mg/l	5	SM2320-B	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	63	Hardness, (calc)		190	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CTE	59-25532	68	TDS		293	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	133	Cation Sum		5.8	meq/l	0.1	ASTM D-596	08/20/2003	1419	RIF	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	134	Anion Sum		6.2	meq/l	0.1	ASTM D-596	08/20/2003	1420	RIF	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	145	Iron (T), as Fe		0.39	mg/l	0.02	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	149	Manganese (T), as Mn		0.01	mg/l	0.01	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	263	Calcium (T), as Ca		43	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U007010	264	Magnesium (T), as Mg		24	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/25/2003	08/04/2003	1845	04	ED	
M_SP38	36	38	CHE	03-U009448	0	Comments									10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	Sample received on ice.
M_SP38	36	38	CHE	03-U009448	13	Temperature, Receiving		8	Deg. C	-20	SM 2550B Mod	10/10/2003	1155	SPS	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CTE	59-25795	17	NO2+NO3, as N		0.14	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	32	Arsenic (D), as As		0.0023	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	34	Boron (D), as B	<	0.05	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	36	Calcium (D), as Ca		39	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	42	Magnesium (D), as Mg		24	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	45	Potassium (D), as K		1.1	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	46	Selenium (D), as Se		0.0006	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	48	Sodium (D), as Na		52	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CTE	59-25795	50	Alkalinity,as Bicarbonate		339	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CTE	59-25795	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CTE	59-25795	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	53	Chloride (IC)		3.2	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CTE	59-25795	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CTE	59-25795	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	60	Sulfate (IC)		16	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CTE	59-25795	62	Alkalinity, Total (CaCO3)		278	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	63	Hardness, (calc)		200	mg/l	1	SM 2340B	10/24/2003	630	DWG	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CTE	59-25795	68	TDS		303	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	145	Iron (T), as Fe		0.03	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	263	Calcium (T), as Ca		41	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	264	Magnesium (T), as Mg		24	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	265	Potassium (T), as K		1.1	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	03-U009448	266	Sodium (T), as Na		52	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1225	04	JS, RG	
M_SP38	36	38	CHE	04-U005532	0	Comments									06/07/2004	06/11/2004	06/06/2004	1621	04	ED	Sample received on ice.
M_SP38	36	38	CHE	04-U005532	13	Temperature, Receiving		22	Deg. C	-20	SM 2550B Mod	06/09/2004	0950	SPS	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	17	NO2+NO3, as N		0.13	mg/l	0.03	EPA 300.0	06/08/2004	424	DI	06/06/2004	06/14/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	25	Potassium (D), as K		1.2	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500D	06/07/2004	1000	TSM	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	32	Arsenic (D), as As		0.0026	mg/l	0.0005	EPA 200.8	06/08/2004	1317	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	36	Calcium (D), as Ca		40	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	42	Magnesium (D), as Mg		24	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	46	Selenium (D), as Se		0.0011	mg/l	0.0005	EPA 200.8	06/09/2004	1317	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	48	Sodium (D), as Na		48	mg/l	0.2	EPA 200.7	06/10/2004	1024	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	06/10/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	50	Alkalinity, as Bicarbonate		336	mg/l	5	EPA 310.1	06/10/2004	1137	BLP	06/06/2004	06/14/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	06/11/2004	945	BLP	06/06/2004	06/14/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	06/10/2004	1137	BLP	06/06/2004	06/14/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	53	Chloride (IC)		3.4	mg/l	1	EPA 300.0	06/11/2004	1100	TSM	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	57	Nitrite, as N	<	0.05	mg/l	0.05	EPA 300.0	06/08/2004	424	DI	06/06/2004	06/14/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	58	Orthophosphate		0.1	mg/l	0.05	EPA 300.0	06/08/2004	424	DI	06/06/2004	06/14/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	60	Sulfate (IC)		17	mg/l	1	EPA 300.0	06/11/2004	1100	TSM	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	62	Alkalinity, Total (CaCO3)		275	mg/l	5	SM2320-B	06/10/2004	1137	BLP	06/06/2004	06/14/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	63	Hardness, (calc)		200	mg/l	5	SM 2340B	06/08/2004	1000	LD	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CTE	59-26442	68	TDS		319	mg/l	10	EPA 160.1	06/08/2004	900	DI	06/06/2004	06/14/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	113	Aluminum (D), as Al	<	0.1	mg/l	0.1	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	

Lab Data Muddy Springs

Spring/Str	DO	DOG	Lab_	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP38	36	38	CHE	04-U005532	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	263	Calcium (T), as Ca		40	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	264	Magnesium (T), as Mg		24	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	265	Potassium (T), as K		1.2	mg/l	0.2	EPA 200.7	06/08/2004	1400	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP38	36	38	CHE	04-U005532	266	Sodium (T), as Na		48	mg/l	0	EPA 200.7	06/08/2004	1024	MJB	06/07/2004	06/11/2004	06/06/2004	1621	04	ED	
M_SP39	36	39	CTE	59-23152	0	Comments									08/31/2001	09/17/2001	08/30/2001	0740	04	ED	DIS.METALS FILTERED @ LAB
M_SP39	36	39	CTE	59-23152	50	Alkalinity, as Bicarbonate		552	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	53	Chloride (IC)		63	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	60	Sulfate (IC)		67	mg/l	0.5	EPA 300.0	09/12/2001	1042	SC	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	62	Alkalinity, Total (CaCO3)		453	mg/l	5	EPA 310.1	09/11/2001	930	SC	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	67	Spec. Conductivity (lab)		1179	umhos/cm		SM2510-B	09/05/2001	810	CB	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	68	TDS		604	mg/l	10	EPA 160.1	09/04/2001	955	CB	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	145	Iron (T), as Fe		0.1	mg/l	0.1	EPA 236.1	09/06/2001	1040	MK	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	263	Calcium (T), as Ca		74	mg/l	1	EPA 215.1	09/06/2001	1558	MK	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	264	Magnesium (T), as Mg		46	mg/l	1	EPA 242.1	09/06/2001	1642	MK	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	09/06/2001	1329	MK	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23152	266	Sodium (T), as Na		84	mg/l	1	EPA 273.1	09/06/2001	1407	MK	08/31/2001	09/17/2001	08/30/2001	0740	04	ED	
M_SP39	36	39	CTE	59-23953	50	Alkalinity, as Bicarbonate		520	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CTE	59-23953	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CTE	59-23953	53	Chloride (IC)		61	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CTE	59-23953	60	Sulfate (IC)		70	mg/l	1	EPA 300.0	05/09/2002	1219	SC	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CTE	59-23953	62	Alkalinity, Total (CaCO3)		427	mg/l	5	EPA 310.1	05/08/2002	1200	DI	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CTE	59-23953	68	TDS		554	mg/l	10	EPA 160.1	05/07/2002	1130	DI	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CTE	59-23953	145	Iron (T), as Fe		0.2	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CTE	59-23953	263	Calcium (T), as Ca		75	mg/l	1	EPA 215.1	05/22/2002	1059	MK	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CTE	59-23953	264	Magnesium (T), as Mg		47	mg/l	1	EPA 242.1	05/22/2002	1222	MK	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CTE	59-23953	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	05/22/2002	901	MK	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CTE	59-23953	266	Sodium (T), as Na		80	mg/l	1	EPA 273.1	05/21/2002	923	MK	05/03/2002	05/22/2002	05/03/2002	1230	04	SC	
M_SP39	36	39	CHE	02-U009456	13	Temperature, Receiving		4	Deg. C	0.1	SM2550B	10/02/2002	1600	CSM	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	17	NO2+NO3, as N		0.1	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	32	Arsenic (D), as As		0.002	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	34	Boron (D), as B		0.09	mg/l	0.05	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	36	Calcium (D), as Ca		78	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	42	Magnesium (D), as Mg		49	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	45	Potassium (D), as K		2.2	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	46	Selenium (D), as Se		0.0073	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	48	Sodium (D), as Na		88	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	49	Zinc (D), as Zn		0.06	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	50	Alkalinity, as Bicarbonate		520	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	50	Alkalinity, as Bicarbonate		504	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	51	Acidity, as CaCO3		15	mg/l	10	D1067-92	09/30/2002	1100	BLP	09/27/2002	10/07/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	53	Chloride (IC)		60	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	53	Chloride (IC)		60	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	60	Sulfate (IC)		68	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	60	Sulfate (IC)		68	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	62	Alkalinity, Total (CaCO3)		413	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	63	Hardness, (calc)		400	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CTE	59-24551	68	TDS		563	mg/l	10	EPA 160.1	09/30/2002	800	DI	09/27/2002	10/07/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	113	Aluminum (D), as Al		0.06	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	133	Cation Sum		12	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	134	Anion Sum		12	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	145	Iron (T), as Fe		0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	263	Calcium (T), as Ca		77	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	264	Magnesium (T), as Mg		49	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	265	Potassium (T), as K		2.2	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U009456	266	Sodium (T), as Na		88	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1320	04	AB	
M_SP39	36	39	CHE	02-U011440	0	Comments									11/19/2002	12/02/2002	11/13/2002	1135	04	AB	Sample received on ice.
M_SP39	36	39	CHE	02-U011440	13	Temperature, Receiving		1	Deg. C	0.1	SM2550-B MOD	11/19/2002	1700	SPS	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	17	NO2+NO3, as N		0.04	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500FG	11/20/2002	1330	TSM	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	34	Boron (D), as B		0.08	mg/l	0.05	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	36	Calcium (D), as Ca		73	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	42	Magnesium (D), as Mg		48	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	45	Potassium (D), as K		2.1	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	48	Sodium (D), as Na		82	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	50	Alkalinity, as Bicarbonate		510	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	50	Alkalinity, as Bicarbonate		403	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	51	Acidity, as CaCO3		23	mg/l	10	D1067-92	11/14/2002	800	JJ	11/14/2002	11/25/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	53	Chloride (IC)		61	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	60	Sulfate (IC)		67	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	62	Alkalinity, Total (CaCO3)		330	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	63	Hardness, (calc)		380	mg/l	0.2	SM 2340-B	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CTE	59-24804	68	TDS		553	mg/l	10	EPA 160.1	11/18/2002	745	JJ	11/14/2002	11/25/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	133	Cation Sum		11	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	134	Anion Sum		11	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	145	Iron (T), as Fe		0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	263	Calcium (T), as Ca		73	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	02-U011440	264	Magnesium (T), as Mg		46	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1135	04	AB	
M_SP39	36	39	CHE	03-U004460	0	Comments									05/27/2003	06/12/2003	05/20/2003	1836	04	ED	Sample received on ice.
M_SP39	36	39	CHE	03-U004460	13	Temperature, Receiving		3	Deg. C	-20	SM 2550B Mod	05/27/2003	1710	SPS	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CTE	59-25183	17	NO2+NO3, as N		0.05	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1835	04	ED	
M_SP39	36	39	CHE	03-U004460	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/29/2003	1300	TSM	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	32	Arsenic (D), as As		0.0013	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	34	Boron (D), as B		0.06	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	36	Calcium (D), as Ca		79	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	42	Magnesium (D), as Mg		50	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	45	Potassium (D), as K		2.1	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	46	Selenium (D), as Se		0.0051	mg/l	0.0005	EPA 200.8	06/03/2003	1133	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	48	Sodium (D), as Na		88	mg/l	0.2	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	

Lab Data Muddy Springs

Spring/Stre	DO(	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP39	36	39	CHE	03-U004460	50	Alkalinity, as Bicarbonate		510	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CTE	59-25183	51	Acidity, as CaCO3		23	mg/l	5	D1067-92	05/27/2003	1120	JJ	05/21/2003	05/28/2003	05/20/2003	1835	04	ED	
M_SP39	36	39	CHE	03-U004460	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	53	Chloride (IC)		57	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CTE	59-25183	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1835	04	ED	
M_SP39	36	39	CTE	59-25183	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/22/2003	0800	JJ	05/21/2003	05/28/2003	05/20/2003	1835	04	ED	
M_SP39	36	39	CHE	03-U004460	60	Sulfate (IC)		68	mg/l	1	EPA 300.0	05/28/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	62	Alkalinity, Total (CaCO3)		420	mg/l	1	SM 2320B	05/29/2003	1700	CSM	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	63	Hardness, (calc)		410	mg/l	5	SM 2340B	06/12/2003	1000	LD	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CTE	59-25183	68	TDS		609	mg/l	10	EPA 160.1	05/27/2003	0830	DI	05/21/2003	05/28/2003	05/20/2003	1835	04	ED	
M_SP39	36	39	CHE	03-U004460	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/29/2003	1223	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	133	Cation Sum		12	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	134	Anion Sum		11	meq/l	0.1	ASTM D-596	06/12/2003	1000	DG	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	263	Calcium (T), as Ca		78	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	264	Magnesium (T), as Mg		50	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	265	Potassium (T), as K		2.1	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CHE	03-U004460	266	Sodium (T), as Na		88	mg/l	0.2	EPA 200.7	05/30/2003	1309	MJB	05/27/2003	06/12/2003	05/20/2003	1836	04	ED	
M_SP39	36	39	CTE	59-25524	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/06/2003	0802	04	AB	
M_SP39	36	39	CTE	59-25524	50	Alkalinity, as Bicarbonate		503	mg/l	5	EPA 310.1	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/06/2003	0802	04	AB	
M_SP39	36	39	CTE	59-25524	51	Acidity, as CaCO3		13	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/06/2003	0802	04	AB	
M_SP39	36	39	CTE	59-25524	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/06/2003	0802	04	AB	
M_SP39	36	39	CTE	59-25524	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/06/2003	0802	04	AB	
M_SP39	36	39	CTE	59-25524	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/06/2003	0802	04	AB	
M_SP39	36	39	CTE	59-25524	62	Alkalinity, Total (CaCO3)		413	mg/l	5	SM2320-B	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/06/2003	0802	04	AB	
M_SP39	36	39	CTE	59-25524	68	TDS		596	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/06/2003	0802	04	AB	
M_SP39	36	39	CHE	03-U007011	0	Comments									08/12/2003	08/25/2003	08/09/2003	0950	04	AB	Sample received on ice.
M_SP39	36	39	CHE	03-U007011	13	Temperature, Receiving		8	Deg. C	-20	SM 2550B Mod	08/12/2003	1420	SPS	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	32	Arsenic (D), as As		0.0007	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	34	Boron (D), as B		0.07	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	36	Calcium (D), as Ca		74	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	42	Magnesium (D), as Mg		46	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	45	Potassium (D), as K		2	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	46	Selenium (D), as Se		0.0032	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	48	Sodium (D), as Na		83	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	50	Alkalinity, as Bicarbonate		550	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	53	Chloride (IC)		62	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	60	Sulfate (IC)		75	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	62	Alkalinity, Total (CaCO3)		450	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	63	Hardness, (calc)		370	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	133	Cation Sum		11	meq/l	0.1	ASTM D-596	08/20/2003	1420	RIF	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	134	Anion Sum		12	meq/l	0.1	ASTM D-596	08/20/2003	1421	RIF	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	263	Calcium (T), as Ca		74	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U007011	264	Magnesium (T), as Mg		46	mg/l	0.2	EPA 200.7	08/19/2003	1353	MJB	08/12/2003	08/25/2003	08/09/2003	0950	04	AB	
M_SP39	36	39	CHE	03-U009449	0	Comments									10/10/2003	10/24/2003	10/07/2003	1805	04	AB	Sample received on ice.
M_SP39	36	39	CHE	03-U009449	13	Temperature, Receiving		6	Deg. C	-20	SM 2550B Mod	10/10/2003	1155	SPS	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	17	NO2+NO3, as N		0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	32	Arsenic (D), as As		0.0005	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	34	Boron (D), as B		0.07	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	36	Calcium (D), as Ca		78	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	40	Iron (D), as Fe		0.06	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	42	Magnesium (D), as Mg		48	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	43	Manganese (D), as Mn		0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	45	Potassium (D), as K		2.2	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	46	Selenium (D), as Se		0.0035	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	48	Sodium (D), as Na		87	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	49	Zinc (D), as Zn		0.07	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	50	Alkalinity,as Bicarbonate		519	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	51	Acidity, as CaCO3		16	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	53	Chloride (IC)		56	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	60	Sulfate (IC)		65	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	62	Alkalinity, Total (CaCO3)		425	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	63	Hardness, (calc)		390	mg/l	1	SM 2340B	10/24/2003	630	DWG	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CTE	59-25796	68	TDS		595	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	145	Iron (T), as Fe		0.09	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	149	Manganese (T), as Mn		0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	263	Calcium (T), as Ca		80	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	264	Magnesium (T), as Mg		49	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	265	Potassium (T), as K		2.2	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	03-U009449	266	Sodium (T), as Na		90	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/24/2003	10/07/2003	1805	04	AB	
M_SP39	36	39	CHE	04-U004624	0	Comments									05/17/2004	05/27/2004	05/12/2004	1120	04	AB	Sample received on ice.
M_SP39	36	39	CHE	04-U004624	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B Mod	05/17/2004	1557	SPS	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	17	NO2+NO3, as N		0.04	mg/l	0.03	EPA 300.0	05/13/2004	1430	BLP	05/13/2004	05/24/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	32	Arsenic (D), as As		0.0014	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	34	Boron (D), as B		0.08	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	36	Calcium (D), as Ca		80	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	42	Magnesium (D), as Mg		50	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	45	Potassium (D), as K		2.1	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	46	Selenium (D), as Se		0.0044	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	48	Sodium (D), as Na		89	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	49	Zinc (D), as Zn		0.02	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	50	Alkalinity, as Bicarbonate		530	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	50	Alkalinity, as Bicarbonate		488	mg/l	5	EPA 310.1	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	51	Acidity, as CaCO3		18	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/13/2004	05/24/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	53	Chloride (IC)		64	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/13/2004	1430	BLP	05/13/2004	05/24/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/13/2004	1430	BLP	05/13/2004	05/24/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	60	Sulfate (IC)		76	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	62	Alkalinity, Total (CaCO3)		430	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	62	Alkalinity, Total (CaCO3)		400	mg/l	5	SM2320-B	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	63	Hardness, (calc)		410	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CTE	59-26335	68	TDS		1214	mg/l	10	EPA 160.1	05/17/2004	800	JJ	05/13/2004	05/24/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	

Lab Data Muddy Springs

Spring/Strn	DO	DOG	Lab_I	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Me	Method	Analytical_Meth	Analytical_I	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sample	Comments
M_SP39	36	39	CHE	04-U004624	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	133	Cation Sum		12	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	134	Anion Sum		12	meq/L	0.1	ASTM D-596	05/27/2004	1000	DWG	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	145	Iron (T), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	149	Manganese (T), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	263	Calcium (T), as Ca		80	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	264	Magnesium (T), as Mg		50	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	265	Potassium (T), as K		2.2	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	
M_SP39	36	39	CHE	04-U004624	266	Sodium (T), as Na		89	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/27/2004	05/12/2004	1120	04	AB	

Field Data Muddy Streams

Spring/Str	DO(	DOG	Lab_	Lab_ID(C	Lab_ID(CHE)	Para	Parameter_Name	Eq	Parameter_	Unit_of_Mea	Date_Sampl	Sampl	Sam	Sampler's_N	Comments
M_STR1	36	201	CTE	59-22685	01-U005279	1	Water Temperature		13.6	Deg. C	06/06/2001	1845	04	ED, SE, JE	
M_STR1	36	201	CTE	59-22685	01-U005279	2	pH		8.61	pH units	06/06/2001	1845	04	ED, SE, JE	
M_STR1	36	201	CTE	59-22685	01-U005279	3	D.O.		7.53	mg/l	06/06/2001	1845	04	ED, SE, JE	
M_STR1	36	201	CTE	59-22685	01-U005279	4	Spec. Conductivity		567	umhos/cm	06/06/2001	1845	04	ED, SE, JE	
M_STR1	36	201	CTE	59-22685	01-U005279	11	Flow		50.094	gpm	06/06/2001	1845	04	ED, SE, JE	
M_STR1	36	201	CTE	59-22685	01-U005279	66	Turbidity		18.40	NTU	06/06/2001	1845	04	ED, SE, JE	
M_STR1	36	201	NOF	08162001	08162001						08/16/2001	1441	10	ED	
M_STR1	36	201	NOF	08302001	08302001						08/30/2001	1330	10	ED	
M_STR1	36	201	NOF	09252001	09252001						09/25/2001	1723	10	ED	
M_STR1	36	201	NOF	10292001	10292001						10/29/2001	1800	10	ED	
M_STR1	36	201	NOF	04182002	04182002						04/18/2002	1200	10	ED, SC	
M_STR1	36	201	NOF	05012002	05012002						05/01/2002	1705	10	ED	
M_STR1	36	201	NOF	06052002	06052002						06/05/2002	1120	10	SC	
M_STR1	36	201	NOF	08072002	08072002						08/07/2002	1730	10	ED	
M_STR1	36	201	NOF	09252002	09252002						09/25/2002	1034	10	ED	
M_STR1	36	201	NOF	11122002	11122002						11/12/2002	1215	10	JS	
M_STR1	36	201	NOA	03112003	03112003						03/11/2003		11	MM	
M_STR1	36	201	NOA	03272003	03272003						03/27/2003		11	MM	
M_STR1	36	201	CTE	59-25142	03-U003963	1	Water Temperature		0.7	Deg. C	05/06/2003	0945	04	JS	
M_STR1	36	201	CTE	59-25142	03-U003963	2	pH		8.48	pH units	05/06/2003	0945	04	JS	
M_STR1	36	201	CTE	59-25142	03-U003963	3	D.O.		8.65	mg/l	05/06/2003	0945	04	JS	
M_STR1	36	201	CTE	59-25142	03-U003963	4	Spec. Conductivity		Error	umhos/cm	05/06/2003	0945	04	JS	
M_STR1	36	201	CTE	59-25142	03-U003963	11	Flow		9.715	gpm	05/06/2003	0945	04	JS	
M_STR1	36	201	CTE	59-25142	03-U003963	66	Turbidity		7.50	NTU	05/06/2003	0945	04	JS	
M_STR1	36	201	NOF	06192003	06192003						06/19/2003	1146	10	MM	
M_STR1	36	201	NOF	08232003	08232003						08/23/2003	0900	10	ED	
M_STR1	36	201	NOF	10062003	10062003						10/06/2003	1515	10	JS, RG	
M_STR1	36	201	NOA	02212004	02212004						02/21/2004		11	MM	
M_STR1	36	201	NOA	03242004	03242004						03/24/2004		11	JS	
M_STR1	36	201	CTE	59-26317	04-U004626	1	Water Temperature		9.9	Deg. C	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	04-U004626	2	pH		8.92	pH units	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	04-U004626	3	D.O.		8.58	mg/l	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	04-U004626	4	Spec. Conductivity		448	umhos/cm	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	04-U004626	11	Flow		672.000	gpm	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	04-U004626	66	Turbidity		19.60	NTU	05/10/2004	1407	04	ED	
M_STR2	36	202	NOF	08072002	08072002						08/07/2002		10	ED	
M_STR2	36	202	CTE	59-24558	02-U009464	1	Water Temperature		8.2	Deg. C	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	02-U009464	2	pH		7.97	pH units	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	02-U009464	3	D.O.		8.35	mg/l	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	02-U009464	4	Spec. Conductivity		509	umhos/cm	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	02-U009464	11	Flow		1.857	gpm	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	02-U009464	66	Turbidity		0.70	NTU	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24795	02-U011429	1	Water Temperature		0.8	Deg. C	11/12/2002	1320	04	JS	
M_STR2	36	202	CTE	59-24795	02-U011429	2	pH		8.19	pH units	11/12/2002	1320	04	JS	
M_STR2	36	202	CTE	59-24795	02-U011429	3	D.O.		11.19	mg/l	11/12/2002	1320	04	JS	
M_STR2	36	202	CTE	59-24795	02-U011429	4	Spec. Conductivity		416	umhos/cm	11/12/2002	1320	04	JS	
M_STR2	36	202	CTE	59-24795	02-U011429	11	Flow		2.925	gpm	11/12/2002	1320	04	JS	
M_STR2	36	202	CTE	59-24795	02-U011429	66	Turbidity		0.90	NTU	11/12/2002	1320	04	JS	
M_STR2	36	202	NOA	03112003	03112003						03/11/2003		11	MM	
M_STR2	36	202	NOA	03272003	03272003						03/27/2003		11	MM	
M_STR2	36	202	CTE	59-25143	03-U003964	1	Water Temperature		3.3	Deg. C	05/06/2003	1153	04	JS	
M_STR2	36	202	CTE	59-25143	03-U003964	2	pH		8.58	pH units	05/06/2003	1153	04	JS	
M_STR2	36	202	CTE	59-25143	03-U003964	3	D.O.		9.88	mg/l	05/06/2003	1153	04	JS	
M_STR2	36	202	CTE	59-25143	03-U003964	4	Spec. Conductivity		591	umhos/cm	05/06/2003	1153	04	JS	
M_STR2	36	202	CTE	59-25143	03-U003964	11	Flow		74.148	gpm	05/06/2003	1153	04	JS	
M_STR2	36	202	CTE	59-25143	03-U003964	66	Turbidity		9.80	NTU	05/06/2003	1153	04	JS	
M_STR2	36	202	CTE	59-25351	03-U005298	1	Water Temperature		13.0	Deg. C	06/19/2003	1319	04	MM	
M_STR2	36	202	CTE	59-25351	03-U005298	2	pH		8.46	pH units	06/19/2003	1319	04	MM	
M_STR2	36	202	CTE	59-25351	03-U005298	3	D.O.		7.51	mg/l	06/19/2003	1319	04	MM	
M_STR2	36	202	CTE	59-25351	03-U005298	4	Spec. Conductivity		705	umhos/cm	06/19/2003	1319	04	MM	
M_STR2	36	202	CTE	59-25351	03-U005298	11	Flow		4.235	gpm	06/19/2003	1319	04	MM	
M_STR2	36	202	CTE	59-25351	03-U005298	66	Turbidity		3.73	NTU	06/19/2003	1319	04	MM	
M_STR2	36	202	CTE	59-25522	03-U007006	1	Water Temperature		14.9	Deg. C	08/04/2003	1822	04	MM, RG	
M_STR2	36	202	CTE	59-25522	03-U007006	2	pH		8.11	pH units	08/04/2003	1822	04	MM, RG	
M_STR2	36	202	CTE	59-25522	03-U007006	3	D.O.		5.84	mg/l	08/04/2003	1822	04	MM, RG	
M_STR2	36	202	CTE	59-25522	03-U007006	4	Spec. Conductivity		722	umhos/cm	08/04/2003	1822	04	MM, RG	
M_STR2	36	202	CTE	59-25522	03-U007006	11	Flow		1.184	gpm	08/04/2003	1822	04	MM, RG	
M_STR2	36	202	CTE	59-25522	03-U007006	66	Turbidity		39.90	NTU	08/04/2003	1822	04	MM, RG	
M_STR2	36	202	CTE	59-25784	03-U009430	1	Water Temperature		9.3	Deg. C	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	03-U009430	2	pH		8.25	pH units	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	03-U009430	3	D.O.		7.15	mg/l	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	03-U009430	4	Spec. Conductivity		495	umhos/cm	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	03-U009430	11	Flow		2.379	gpm	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	03-U009430	66	Turbidity		2.99	NTU	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	NOA	02212004	02212004						02/21/2004		11	MM	
M_STR2	36	202	NOA	03242004	03242004						03/24/2004		11	JS	
M_STR2	36	202	CTE	59-26318	04-U004627	1	Water Temperature		11.8	Deg. C	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	04-U004627	2	pH		8.84	pH units	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	04-U004627	3	D.O.		8.36	mg/l	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	04-U004627	4	Spec. Conductivity		443	umhos/cm	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	04-U004627	11	Flow		459.995	gpm	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	04-U004627	66	Turbidity		39.70	NTU	05/10/2004	1702	04	ED	
M_STR3	36	203	CTE	59-22686	01-U005280	1	Water Temperature		10.4	Deg. C	06/06/2001	2100	04	ED, SE, JE	
M_STR3	36	203	CTE	59-22686	01-U005280	2	pH		8.54	pH units	06/06/2001	2100	04	ED, SE, JE	
M_STR3	36	203	CTE	59-22686	01-U005280	3	D.O.		7.11	mg/l	06/06/2001	2100	04	ED, SE, JE	
M_STR3	36	203	CTE	59-22686	01-U005280	4	Spec. Conductivity		527	umhos/cm	06/06/2001	2100	04	ED, SE, JE	
M_STR3	36	203	CTE	59-22686	01-U005280	11	Flow		36.624	gpm	06/06/2001	2100	04	ED, SE, JE	
M_STR3	36	203	CTE	59-22686	01-U005280	66	Turbidity		22.50	NTU	06/06/2001	2100	04	ED, SE, JE	
M_STR3	36	203	CTE	59-23035	01-U007624	1	Water Temperature		12.1	Deg. C	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	01-U007624	2	pH		7.81	pH units	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	01-U007624	3	D.O.		4.03	mg/l	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	01-U007624	4	Spec. Conductivity		405	umhos/cm	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	01-U007624	11	Flow		0.610	gpm	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	01-U007624	66	Turbidity		3.17	NTU	08/16/2001	1715	04	ED	
M_STR3	36	203	FLD	08302001	08302001	11	Flow		6.052	gpm	08/30/2001	1655	20	ED	No field WQ measurements taken, only flow.
M_STR3	36	203	CTE	59-23388	01-U009283	1	Water Temperature		8.7	Deg. C	09/25/2001	1358	04	ED	
M_STR3	36	203	CTE	59-23388	01-U009283	2	pH		7.85	pH units	09/25/2001	1358	04	ED	
M_STR3	36	203	CTE	59-23388	01-U009283	3	D.O.		3.83	mg/l	09/25/2001	1358	04	ED	
M_STR3	36	203	CTE	59-23388	01-U009283	4	Spec. Conductivity		395	umhos/cm	09/25/2001	1358	04	ED	

Field Data Muddy Streams

Spring/Str	DO(	DOG	Lab_	Lab_ID(C	Lab_ID(CHE)	Para	Parameter_Name	Eg	Parameter_	Unit_of_Mea	Date_Sampl	Sampl	Sam	Sampler's_N	Comments
M_STR3	36	203	CTE	59-23388	01-U009283	11	Flow		0.501	gpm	09/25/2001	1358	04	ED	
M_STR3	36	203	CTE	59-23388	01-U009283	66	Turbidity		2.21	NTU	09/25/2001	1358	04	ED	
M_STR3	36	203	CTE	59-23575	01-U010396	1	Water Temperature		3.6	Deg. C	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	01-U010396	2	pH		7.98	pH units	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	01-U010396	3	D.O.		6.68	mg/l	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	01-U010396	4	Spec. Conductivity		202	umhos/cm	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	01-U010396	11	Flow		0.967	gpm	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	01-U010396	66	Turbidity		0.00	NTU	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23911	02-U003256	1	Water Temperature		13.0	Deg. C	04/18/2002	1425	04	ED, SC	
M_STR3	36	203	CTE	59-23911	02-U003256	2	pH		7.87	pH units	04/18/2002	1425	04	ED, SC	
M_STR3	36	203	CTE	59-23911	02-U003256	3	D.O.		6.29	mg/l	04/18/2002	1425	04	ED, SC	
M_STR3	36	203	CTE	59-23911	02-U003256	4	Spec. Conductivity		311	umhos/cm	04/18/2002	1425	04	ED, SC	
M_STR3	36	203	CTE	59-23911	02-U003256	11	Flow		9.451	gpm	04/18/2002	1425	04	ED, SC	
M_STR3	36	203	CTE	59-23911	02-U003256	66	Turbidity		1.21	NTU	04/18/2002	1425	04	ED, SC	
M_STR3	36	203	FLD	05012002	05012002	1	Water Temperature		3.6	Deg. C	05/01/2002	1426	20	ED	
M_STR3	36	203	FLD	05012002	05012002	2	pH		8.29	pH units	05/01/2002	1426	20	ED	
M_STR3	36	203	FLD	05012002	05012002	3	D.O.		9.70	mg/l	05/01/2002	1426	20	ED	
M_STR3	36	203	FLD	05012002	05012002	4	Spec. Conductivity		409	umhos/cm	05/01/2002	1426	20	ED	
M_STR3	36	203	FLD	05012002	05012002	11	Flow		7.993	gpm	05/01/2002	1426	20	ED	
M_STR3	36	203	FLD	05012002	05012002	66	Turbidity		0.67	NTU	05/01/2002	1426	20	ED	
M_STR3	36	203	CTE	59-24062	02-U005002	1	Water Temperature		6.3	Deg. C	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	02-U005002	2	pH		8.18	pH units	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	02-U005002	3	D.O.		4.83	mg/l	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	02-U005002	4	Spec. Conductivity		365	umhos/cm	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	02-U005002	11	Flow		2.610	gpm	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	02-U005002	66	Turbidity		0.64	NTU	06/05/2002	0800	04	SC	
M_STR3	36	203	NOF	08072002	08072002						08/07/2002	1900	10	ED	
M_STR3	36	203	CTE	59-24559	02-U009465	1	Water Temperature		8.2	Deg. C	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	02-U009465	2	pH		7.87	pH units	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	02-U009465	3	D.O.		4.85	mg/l	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	02-U009465	4	Spec. Conductivity		405	umhos/cm	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	02-U009465	11	Flow		1.830	gpm	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	02-U009465	66	Turbidity		2.00	NTU	09/25/2002	1418	04	ED	
M_STR3	36	203	NOF	11122002	11122002						11/12/2002	1030	10	JS	
M_STR3	36	203	NOA	03112003	03112003						03/11/2003		11	MM	
M_STR3	36	203	NOA	03272003	03272003						03/27/2003		11	MM	
M_STR3	36	203	CTE	59-25144	03-U003965	1	Water Temperature		4.0	Deg. C	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	03-U003965	2	pH		8.71	pH units	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	03-U003965	3	D.O.		9.37	mg/l	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	03-U003965	4	Spec. Conductivity		621	umhos/cm	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	03-U003965	11	Flow		54.900	gpm	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	03-U003965	66	Turbidity		23.80	NTU	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25352	03-U005299	1	Water Temperature		10.9	Deg. C	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	03-U005299	2	pH		8.10	pH units	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	03-U005299	3	D.O.		5.20	mg/l	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	03-U005299	4	Spec. Conductivity		659	umhos/cm	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	03-U005299	11	Flow		2.499	gpm	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	03-U005299	66	Turbidity		2.83	NTU	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25527	03-U007007	1	Water Temperature		12.0	Deg. C	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	03-U007007	2	pH		7.72	pH units	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	03-U007007	3	D.O.		3.58	mg/l	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	03-U007007	4	Spec. Conductivity		647	umhos/cm	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	03-U007007	11	Flow		1.631	gpm	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	03-U007007	66	Turbidity		43.30	NTU	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25785	03-U009431	1	Water Temperature		7.9	Deg. C	10/06/2003	1800	04	JS, RG	
M_STR3	36	203	CTE	59-25785	03-U009431	2	pH		8.01	pH units	10/06/2003	1800	04	JS, RG	
M_STR3	36	203	CTE	59-25785	03-U009431	3	D.O.		5.56	mg/l	10/06/2003	1800	04	JS, RG	
M_STR3	36	203	CTE	59-25785	03-U009431	4	Spec. Conductivity		398	umhos/cm	10/06/2003	1800	04	JS, RG	
M_STR3	36	203	CTE	59-25785	03-U009431	11	Flow		1.382	gpm	10/06/2003	1800	04	JS, RG	
M_STR3	36	203	CTE	59-25785	03-U009431	66	Turbidity		7.29	NTU	10/06/2003	1800	04	JS, RG	
M_STR3	36	203	NOA	02212004	02212004						02/21/2004		11	MM	
M_STR3	36	203	NOA	03242004	03242004						03/24/2004		11	JS	
M_STR3	36	203	CTE	59-26319	04-U004628	1	Water Temperature		8.4	Deg. C	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	04-U004628	2	pH		8.73	pH units	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	04-U004628	3	D.O.		8.51	mg/l	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	04-U004628	4	Spec. Conductivity		307	umhos/cm	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	04-U004628	11	Flow		491.463	gpm	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	04-U004628	66	Turbidity		51.40	NTU	05/10/2004	2025	04	ED	
M_STR4	36	204	CTE	59-22688	01-U005281	1	Water Temperature		19.4	Deg. C	06/07/2001	1350	04	ED, SE, JE	
M_STR4	36	204	CTE	59-22688	01-U005281	2	pH		8.55	pH units	06/07/2001	1350	04	ED, SE, JE	
M_STR4	36	204	CTE	59-22688	01-U005281	3	D.O.		6.84	mg/l	06/07/2001	1350	04	ED, SE, JE	
M_STR4	36	204	CTE	59-22688	01-U005281	4	Spec. Conductivity		386	umhos/cm	06/07/2001	1350	04	ED, SE, JE	
M_STR4	36	204	CTE	59-22688	01-U005281	11	Flow		71.081	gpm	06/07/2001	1350	04	ED, SE, JE	
M_STR4	36	204	CTE	59-22688	01-U005281	66	Turbidity		3.08	NTU	06/07/2001	1350	04	ED, SE, JE	
M_STR4	36	204	FLD	06222001	06222001	11	Flow		11.719	gpm	06/22/2001	1337	20	ED, BH	No field WQ measurements taken, only flow.
M_STR4	36	204	NOF	08162001	08162001						08/16/2001	1133	10	ED	
M_STR4	36	204	NOF	08312001	08312001						08/31/2001	0900	10	ED	
M_STR4	36	204	NOF	09272001	09272001						09/27/2001	0930	10	ED	
M_STR4	36	204	NOF	10282001	10282001						10/28/2001	2130	10	ED	
M_STR4	36	204	CTE	59-23910	02-U003257	1	Water Temperature		6.2	Deg. C	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	02-U003257	2	pH		8.87	pH units	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	02-U003257	3	D.O.		9.19	mg/l	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	02-U003257	4	Spec. Conductivity		470	umhos/cm	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	02-U003257	11	Flow		13.005	gpm	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	02-U003257	66	Turbidity		7.49	NTU	04/17/2002	1615	04	ED	
M_STR4	36	204	FLD	05032002	05032002	1	Water Temperature		12.1	Deg. C	05/03/2002	1325	20	ED, SC	
M_STR4	36	204	FLD	05032002	05032002	2	pH		8.87	pH units	05/03/2002	1325	20	ED, SC	
M_STR4	36	204	FLD	05032002	05032002	3	D.O.			mg/l	05/03/2002	1325	20	ED, SC	
M_STR4	36	204	FLD	05032002	05032002	4	Spec. Conductivity		869	umhos/cm	05/03/2002	1325	20	ED, SC	
M_STR4	36	204	FLD	05032002	05032002	11	Flow		12.245	gpm	05/03/2002	1325	20	ED, SC	
M_STR4	36	204	FLD	05032002	05032002	66	Turbidity		0.00	NTU	05/03/2002	1325	20	ED, SC	
M_STR4	36	204	CTE	59-24061	02-U005003	1	Water Temperature		18.0	Deg. C	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	02-U005003	2	pH		8.83	pH units	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	02-U005003	3	D.O.		5.23	mg/l	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	02-U005003	4	Spec. Conductivity		514	umhos/cm	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	02-U005003	11	Flow		3.037	gpm	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	02-U005003	66	Turbidity		2.80	NTU	06/04/2002	1720	04	SC	
M_STR4	36	204	NOF	08082002	08082002						08/08/2002	0903	10	ED	
M_STR4	36	204	NOF	09252002	09252002						09/25/2002	2011	10	ED	

Field Data Muddy Streams

Spring/Str	DO(	DOG	Lab_(	Lab_ID(C	Lab_ID(CHE)	Para	Parameter_Name	Eq	Parameter_	Unit_of_Mea	Date_Sampl	Sampl	Sam	Sampler's_N	Comments
M_STR4	36	204	NOF	11122002	11122002						11/12/2002	1700	10	JS	
M_STR4	36	204	NOA	03112003	03112003						03/11/2003		11	MM	
M_STR4	36	204	NOA	03272003	03272003						03/27/2003		11	MM	
M_STR4	36	204	CTE	59-25145	03-U003966	1	Water Temperature		8.0	Deg. C	05/06/2003	1800	04	JS	
M_STR4	36	204	CTE	59-25145	03-U003966	2	pH		8.74	pH units	05/06/2003	1800	04	JS	
M_STR4	36	204	CTE	59-25145	03-U003966	3	D.O.		8.56	mg/l	05/06/2003	1800	04	JS	
M_STR4	36	204	CTE	59-25145	03-U003966	4	Spec. Conductivity		599	umhos/cm	05/06/2003	1800	04	JS	
M_STR4	36	204	CTE	59-25145	03-U003966	11	Flow		79.900	gpm	05/06/2003	1800	04	JS	
M_STR4	36	204	CTE	59-25145	03-U003966	66	Turbidity		13.60	NTU	05/06/2003	1800	04	JS	
M_STR4	36	204	CTE	59-25354	03-U005300	1	Water Temperature		8.4	Deg. C	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	03-U005300	2	pH		8.65	pH units	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	03-U005300	3	D.O.		8.92	mg/l	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	03-U005300	4	Spec. Conductivity		792	umhos/cm	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	03-U005300	11	Flow		14.231	gpm	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	03-U005300	66	Turbidity		4.73	NTU	06/20/2003	0804	04	MM	
M_STR4	36	204	NOF	08062003	08062003						08/06/2003	0800	10	ED	
M_STR4	36	204	NOF	10082003	10082003						10/08/2003	0900	10	JS	
M_STR4	36	204	NOA	02212004	02212004						02/21/2004		11	MM	
M_STR4	36	204	NOA	03242004	03242004						03/24/2004		11	JS	
M_STR4	36	204	CTE	59-26320	04-U004630	1	Water Temperature		11.9	Deg. C	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26320	04-U004630	2	pH		8.82	pH units	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26320	04-U004630	3	D.O.		8.12	mg/l	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26320	04-U004630	4	Spec. Conductivity		445	umhos/cm	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26320	04-U004630	11	Flow		717.264	gpm	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26320	04-U004630	66	Turbidity		76.30	NTU	05/11/2004	1645	04	ED	
M_STR5	36	205	CTE	59-24313	02-U007394	1	Water Temperature		9.5	Deg. C	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	02-U007394	2	pH		6.50	pH units	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	02-U007394	3	D.O.		8.45	mg/l	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	02-U007394	4	Spec. Conductivity		346	umhos/cm	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	02-U007394	11	Flow		1.412	gpm	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	02-U007394	66	Turbidity		1.56	NTU	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24560	02-U009466	1	Water Temperature		7.0	Deg. C	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	02-U009466	2	pH		8.38	pH units	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	02-U009466	3	D.O.		8.21	mg/l	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	02-U009466	4	Spec. Conductivity		353	umhos/cm	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	02-U009466	11	Flow		1.717	gpm	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	02-U009466	66	Turbidity		4.00	NTU	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24797	02-U011431	1	Water Temperature		0.5	Deg. C	11/12/2002	1530	04	JS	
M_STR5	36	205	CTE	59-24797	02-U011431	2	pH		8.25	pH units	11/12/2002	1530	04	JS	
M_STR5	36	205	CTE	59-24797	02-U011431	3	D.O.		11.18	mg/l	11/12/2002	1530	04	JS	
M_STR5	36	205	CTE	59-24797	02-U011431	4	Spec. Conductivity		329	umhos/cm	11/12/2002	1530	04	JS	
M_STR5	36	205	CTE	59-24797	02-U011431	11	Flow		Immeasura	gpm	11/12/2002	1530	04	JS	
M_STR5	36	205	CTE	59-24797	02-U011431	66	Turbidity		2.32	NTU	11/12/2002	1530	04	JS	
M_STR5	36	205	NOA	03112003	03112003						03/11/2003		11	MM	
M_STR5	36	205	NOA	03272003	03272003						03/27/2003		11	MM	
M_STR5	36	205	CTE	59-25146	03-U003967	1	Water Temperature		6.1	Deg. C	05/06/2003	1540	04	JS	
M_STR5	36	205	CTE	59-25146	03-U003967	2	pH		8.73	pH units	05/06/2003	1540	04	JS	
M_STR5	36	205	CTE	59-25146	03-U003967	3	D.O.		9.04	mg/l	05/06/2003	1540	04	JS	
M_STR5	36	205	CTE	59-25146	03-U003967	4	Spec. Conductivity		616	umhos/cm	05/06/2003	1540	04	JS	
M_STR5	36	205	CTE	59-25146	03-U003967	11	Flow		61.600	gpm	05/06/2003	1540	04	JS	
M_STR5	36	205	CTE	59-25146	03-U003967	66	Turbidity		22.50	NTU	05/06/2003	1540	04	JS	
M_STR5	36	205	CTE	59-25353	03-U005301	1	Water Temperature		10.3	Deg. C	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	03-U005301	2	pH		8.56	pH units	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	03-U005301	3	D.O.		8.04	mg/l	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	03-U005301	4	Spec. Conductivity		605	umhos/cm	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	03-U005301	11	Flow		2.686	gpm	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	03-U005301	66	Turbidity		1.37	NTU	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25523	03-U007009	1	Water Temperature		10.2	Deg. C	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	03-U007009	2	pH		8.35	pH units	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	03-U007009	3	D.O.		8.50	mg/l	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	03-U007009	4	Spec. Conductivity		610	umhos/cm	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	03-U007009	11	Flow		2.043	gpm	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	03-U007009	66	Turbidity			NTU	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25786	03-U009432	1	Water Temperature		6.0	Deg. C	10/06/2003	1900	04	JS, RG	
M_STR5	36	205	CTE	59-25786	03-U009432	2	pH		8.47	pH units	10/06/2003	1900	04	JS, RG	
M_STR5	36	205	CTE	59-25786	03-U009432	3	D.O.		7.23	mg/l	10/06/2003	1900	04	JS, RG	
M_STR5	36	205	CTE	59-25786	03-U009432	4	Spec. Conductivity		356	umhos/cm	10/06/2003	1900	04	JS, RG	
M_STR5	36	205	CTE	59-25786	03-U009432	11	Flow		1.534	gpm	10/06/2003	1900	04	JS, RG	
M_STR5	36	205	CTE	59-25786	03-U009432	66	Turbidity		3.99	NTU	10/06/2003	1900	04	JS, RG	
M_STR5	36	205	NOA	02212004	02212004						02/21/2004		11	MM	
M_STR5	36	205	NOA	03242004	03242004						03/24/2004		11	JS	
M_STR5	36	205	CTE	59-26333	04-U004631	1	Water Temperature		10.0	Deg. C	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	04-U004631	2	pH		8.82	pH units	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	04-U004631	3	D.O.		8.07	mg/l	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	04-U004631	4	Spec. Conductivity		446	umhos/cm	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	04-U004631	11	Flow		598.482	gpm	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	04-U004631	66	Turbidity		17.40	NTU	05/11/2004	1735	04	ED	
M_STR6	36	206	CTE	59-22689	01-U005282	1	Water Temperature		20.1	Deg. C	06/07/2001	1608	04	ED, SE, JE	
M_STR6	36	206	CTE	59-22689	01-U005282	2	pH		8.48	pH units	06/07/2001	1608	04	ED, SE, JE	
M_STR6	36	206	CTE	59-22689	01-U005282	3	D.O.		6.54	mg/l	06/07/2001	1608	04	ED, SE, JE	
M_STR6	36	206	CTE	59-22689	01-U005282	4	Spec. Conductivity		808	umhos/cm	06/07/2001	1608	04	ED, SE, JE	
M_STR6	36	206	CTE	59-22689	01-U005282	11	Flow		16.853	gpm	06/07/2001	1608	04	ED, SE, JE	
M_STR6	36	206	CTE	59-22689	01-U005282	66	Turbidity		67.50	NTU	06/07/2001	1608	04	ED, SE, JE	
M_STR6	36	206	FLD	06222001	06222001	11	Flow		5.651	gpm	06/22/2001	1445	20	ED, BH	No field WQ measurements taken, only flow.
M_STR6	36	206	CTE	59-23036	01-U007625	1	Water Temperature		12.4	Deg. C	08/16/2001	0915	04	ED	
M_STR6	36	206	CTE	59-23036	01-U007625	2	pH		8.30	pH units	08/16/2001	0915	04	ED	
M_STR6	36	206	CTE	59-23036	01-U007625	3	D.O.		7.13	mg/l	08/16/2001	0915	04	ED	
M_STR6	36	206	CTE	59-23036	01-U007625	4	Spec. Conductivity		439	umhos/cm	08/16/2001	0915	04	ED	
M_STR6	36	206	CTE	59-23036	01-U007625	11	Flow		4.743	gpm	08/16/2001	0915	04	ED	
M_STR6	36	206	CTE	59-23036	01-U007625	66	Turbidity		81.40	NTU	08/16/2001	0915	04	ED	
M_STR6	36	206	CTE	59-23391	01-U009284	1	Water Temperature		11.5	Deg. C	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	01-U009284	2	pH		7.92	pH units	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	01-U009284	3	D.O.		3.14	mg/l	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	01-U009284	4	Spec. Conductivity		575	umhos/cm	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	01-U009284	11	Flow		1.920	gpm	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	01-U009284	66	Turbidity		30.00	NTU	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23576	01-U010397	1	Water Temperature		2.7	Deg. C	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	01-U010397	2	pH		8.39	pH units	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	01-U010397	3	D.O.		8.73	mg/l	10/30/2001	0231	04	ED	

Field Data Muddy Streams

Spring/Str	DO(	DOG	Lab_	Lab_ID(C	Lab_ID(CHE)	Para	Parameter_Name	Eq	Parameter	Unit_of_Mea	Date_Sampl	Sampl	Sam	Sampler's_N	Comments
M_STR6	36	206	CTE	59-23576	01-U010397	4	Spec. Conductivity		446	umhos/cm	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	01-U010397	11	Flow		6.438	gpm	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	01-U010397	66	Turbidity		11.60	NTU	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23909	02-U003258	1	Water Temperature		9.6	Deg. C	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	02-U003258	2	pH		8.77	pH units	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	02-U003258	3	D.O.		7.16	mg/l	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	02-U003258	4	Spec. Conductivity		462	umhos/cm	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	02-U003258	11	Flow		18.165	gpm	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	02-U003258	66	Turbidity		9.63	NTU	04/17/2002	1337	04	ED	
M_STR6	36	206	FLD	05012002	05012002	1	Water Temperature		8.2	Deg. C	05/01/2002	1945	20	ED	
M_STR6	36	206	FLD	05012002	05012002	2	pH		8.51	pH units	05/01/2002	1945	20	ED	
M_STR6	36	206	FLD	05012002	05012002	3	D.O.		8.55	mg/l	05/01/2002	1945	20	ED	
M_STR6	36	206	FLD	05012002	05012002	4	Spec. Conductivity		819	umhos/cm	05/01/2002	1945	20	ED	
M_STR6	36	206	FLD	05012002	05012002	11	Flow		4.455	gpm	05/01/2002	1945	20	ED	
M_STR6	36	206	FLD	05012002	05012002	66	Turbidity		8.32	NTU	05/01/2002	1945	20	ED	
M_STR6	36	206	CTE	59-24060	02-U005004	1	Water Temperature		23.3	Deg. C	06/05/2002	1440	04	SC	
M_STR6	36	206	CTE	59-24060	02-U005004	2	pH		8.52	pH units	06/05/2002	1440	04	SC	
M_STR6	36	206	CTE	59-24060	02-U005004	3	D.O.		5.13	mg/l	06/05/2002	1440	04	SC	
M_STR6	36	206	CTE	59-24060	02-U005004	4	Spec. Conductivity		569	umhos/cm	06/05/2002	1440	04	SC	
M_STR6	36	206	CTE	59-24060	02-U005004	11	Flow		3.020	gpm	06/05/2002	1440	04	SC	
M_STR6	36	206	CTE	59-24060	02-U005004	66	Turbidity		40.90	NTU	06/05/2002	1440	04	SC	
M_STR6	36	206	NOF	08082002	08082002						08/08/2002	0816	10	ED	
M_STR6	36	206	NOF	09242002	09242002						09/24/2002	1900	10	ED	
M_STR6	36	206	NOF	11132002	11132002						11/13/2002	1000	10	JS	
M_STR6	36	206	NOA	03112003	03112003						03/11/2003		11	MM	
M_STR6	36	206	NOA	03272003	03272003						03/27/2003		11	MM	
M_STR6	36	206	CTE	59-25147	03-U003968	1	Water Temperature		11.7	Deg. C	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	03-U003968	2	pH		8.54	pH units	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	03-U003968	3	D.O.		7.01	mg/l	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	03-U003968	4	Spec. Conductivity		490	umhos/cm	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	03-U003968	11	Flow		17.836	gpm	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	03-U003968	66	Turbidity		8.29	NTU	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25355	03-U005302	1	Water Temperature		12.6	Deg. C	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	03-U005302	2	pH		8.66	pH units	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	03-U005302	3	D.O.		8.15	mg/l	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	03-U005302	4	Spec. Conductivity		822	umhos/cm	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	03-U005302	11	Flow		3.024	gpm	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	03-U005302	66	Turbidity		12.80	NTU	06/20/2003	0949	04	MM	
M_STR6	36	206	NOF	08062003	08062003						08/06/2003	0815	10	ED	
M_STR6	36	206	NOF	10082003	10082003						10/08/2003	0930	10	JS	
M_STR6	36	206	NOA	02212004	02212004						02/21/2004		11	MM	
M_STR6	36	206	NOA	03242004	03242004						03/24/2004		11	JS	
M_STR6	36	206	CTE	59-26321	04-U004629	1	Water Temperature		15.4	Deg. C	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	04-U004629	2	pH		8.65	pH units	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	04-U004629	3	D.O.		6.59	mg/l	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	04-U004629	4	Spec. Conductivity		723	umhos/cm	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	04-U004629	11	Flow		27.400	gpm	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	04-U004629	66	Turbidity		96.30	NTU	05/11/2004	1042	04	ED	
M_STR7	36	207	NOF	09252002	09252002						09/25/2002	1545	10	AB	
M_STR7	36	207	NOF	11122002	11122002						11/12/2002	0950	10	AB	
M_STR7	36	207	NOA	03112003	03112003						03/11/2003		11	MM	
M_STR7	36	207	NOA	03272003	03272003						03/27/2003		11	MM	
M_STR7	36	207	NOF	05072003	05072003						05/07/2003	1303	10	JS	
M_STR7	36	207	NOF	08082003	08082003						08/08/2003	1850	10	AB	
M_STR7	36	207	NOF	10062003	10062003						10/06/2003	1735	10	AB	
M_STR7	36	207	NOA	02212004	02212004						02/21/2004		11	MM	
M_STR7	36	207	NOA	03242004	03242004						03/24/2004		11	JS	
M_STR7	36	207	NOF	05132004	05132004						05/13/2004	1329	10	AB	
M_STR8	36	208	CTE	59-24561	02-U009463	1	Water Temperature		9.2	Deg. C	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	02-U009463	2	pH		8.70	pH units	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	02-U009463	3	D.O.		9.10	mg/l	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	02-U009463	4	Spec. Conductivity		234	umhos/cm	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	02-U009463	11	Flow		2062.500	gpm	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	02-U009463	66	Turbidity		2.20	NTU	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24798	02-U011432	1	Water Temperature		1.0	Deg. C	11/13/2002	1200	04	JS	
M_STR8	36	208	CTE	59-24798	02-U011432	2	pH		8.72	pH units	11/13/2002	1200	04	JS	
M_STR8	36	208	CTE	59-24798	02-U011432	3	D.O.		13.66	mg/l	11/13/2002	1200	04	JS	
M_STR8	36	208	CTE	59-24798	02-U011432	4	Spec. Conductivity		65	umhos/cm	11/13/2002	1200	04	JS	
M_STR8	36	208	CTE	59-24798	02-U011432	11	Flow		967.700	gpm	11/13/2002	1200	04	JS	
M_STR8	36	208	CTE	59-24798	02-U011432	66	Turbidity		1.50	NTU	11/13/2002	1200	04	JS	
M_STR8	36	208	NOA	03112003	03112003						03/11/2003		11	MM	
M_STR8	36	208	NOA	03272003	03272003						03/27/2003		11	MM	
M_STR8	36	208	CTE	59-25148	03-U003969	1	Water Temperature		3.5	Deg. C	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	03-U003969	2	pH		8.69	pH units	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	03-U003969	3	D.O.		10.22	mg/l	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	03-U003969	4	Spec. Conductivity		247	umhos/cm	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	03-U003969	11	Flow		2447.560	gpm	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	03-U003969	66	Turbidity		5.15	NTU	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25526	03-U007008	1	Water Temperature		16.2	Deg. C	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	03-U007008	2	pH		8.74	pH units	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	03-U007008	3	D.O.		7.51	mg/l	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	03-U007008	4	Spec. Conductivity		371	umhos/cm	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	03-U007008	11	Flow		7145.300	gpm	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	03-U007008	66	Turbidity			NTU	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25787	03-U009429	1	Water Temperature		5.5	Deg. C	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-25787	03-U009429	2	pH		8.88	pH units	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-25787	03-U009429	3	D.O.		9.27	mg/l	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-25787	03-U009429	4	Spec. Conductivity		232	umhos/cm	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-25787	03-U009429	11	Flow		3086.500	gpm	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-25787	03-U009429	66	Turbidity		1.99	NTU	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	NOA	02212004	02212004						02/21/2004		11	MM	
M_STR8	36	208	NOA	03242004	03242004						03/24/2004		11	JS	
M_STR8	36	208	CTE	59-26338	04-U004632	1	Water Temperature		4.2	Deg. C	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-26338	04-U004632	2	pH		8.90	pH units	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-26338	04-U004632	3	D.O.		9.76	mg/l	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-26338	04-U004632	4	Spec. Conductivity		352	umhos/cm	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-26338	04-U004632	11	Flow		15643.659	gpm	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-26338	04-U004632	66	Turbidity		6.81	NTU	05/13/2004	1206	04	ED	

Lab Data Muddy Streams

Spring/Str	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramete	Unit_of_Mea	Method_	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nan	Comments
M_STR1	36	201	CHE	01-U005279	0	Comments									06/08/2001	06/25/2001	06/06/2001	1907	04	ED	Sample received on ice.
M_STR1	36	201	CTE	59-22685	0	Comments									06/07/2001	06/21/2001	06/06/2001	1740	04	ED	DIS.METALS FILTERED @ LAB
M_STR1	36	201	CTE	59-22685	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	06/08/2001	0944	SC	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CHE	01-U005448	22	Cyanide, Dissolved		0.002	mg/l	0.002	ASTM D203	06/14/2001	1500	PNM	06/14/2001	06/26/2001	06/06/2001	1740	04	ED	Sample received on ice.
M_STR1	36	201	CHE	01-U005279	32	Arsenic (D), as As		0.0008	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CHE	01-U005279	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CHE	01-U005279	37	Chromium (D), as Cr		0.0034	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CHE	01-U005279	39	Copper (D), as Cu		0.0013	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CHE	01-U005279	41	Lead (D), as Pb	<	0.005	mg/l	0.005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CHE	01-U005279	44	Nickel (D), as Ni		0.0016	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CHE	01-U005279	46	Selenium (D), as Se		0.0005	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CHE	01-U005279	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CHE	01-U005279	49	Zinc (D), as Zn		0.02	mg/l	0.01	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CTE	59-22685	50	Alkalinity, as Bicarbonate		349	mg/l	5	EPA 310.1	06/07/2001	0730	SC	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	52	Alkalinity, as Carbonate		7	mg/l	5	EPA 310.1	06/07/2001	0730	SC	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	53	Chloride (IC)		24	mg/l	1	EPA 300.0	06/11/2001	1523	CB	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	06/08/2001	0944	SC	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	06/08/2001	0944	SC	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	60	Sulfate (IC)		34	mg/l	1	EPA 300.0	06/08/2001	0944	SC	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	61	Phosphorus, Total		0.05	mg/l	0.05	SM4500-P-B	06/19/2001	1000	JK	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	62	Alkalinity, Total (CaCO3)		298	mg/l	5	EPA 310.1	06/07/2001	0730	SC	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	68	TDS		378	mg/l	10	EPA 160.1	06/07/2001	0700	CB	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CHE	01-U005279	113	Aluminum (D), as Al		0.03	mg/l	0.03	EPA 200.7	06/20/2001	1309	MJB	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CTE	59-22685	145	Iron (T), as Fe		0.5	mg/l	0.1	EPA 236.1	06/18/2001	1141	MK	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CHE	01-U005279	223	Mercury (D)		0.0002	mg/l	0.0002	EPA 245.2	06/22/2001	1300	MJB	06/08/2001	06/25/2001	06/06/2001	1907	04	ED	
M_STR1	36	201	CTE	59-22685	263	Calcium (T), as Ca		43	mg/l	1	EPA 215.1	06/19/2001	1045	MK	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	264	Magnesium (T), as Mg		35	mg/l	1	EPA 242.1	06/19/2001	1131	MK	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	06/18/2001	1404	MK	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CTE	59-22685	266	Sodium (T), as Na		54	mg/l	1	EPA 273.1	06/18/2001	1505	MK	06/07/2001	06/21/2001	06/06/2001	1740	04	ED	
M_STR1	36	201	CHE	03-U003963	0	Comments									05/12/2003	05/27/2003	05/06/2003	1015	04	JS	Sample received on ice.
M_STR1	36	201	CHE	03-U003963	13	Temperature, Receiving		9	Deg. C	-20	SM 2550B M	05/12/2003	1630	SPS	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CTE	59-25142	16	TSS		7	mg/l	5	EPA 160.2	05/12/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CTE	59-25142	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203	05/12/2003	1130	PNM	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/15/2003	1400	TSM	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	32	Arsenic (D), as As		0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	36	Calcium (D), as Ca		45	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	42	Magnesium (D), as Mg		27	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	45	Potassium (D), as K		2.3	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	48	Sodium (D), as Na		42	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	50	Alkalinity, as Bicarbonate		350	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CTE	59-25142	50	Alkalinity, as Bicarbonate		332	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CTE	59-25142	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/12/2003	800	JJ	05/08/2003	05/14/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	52	Alkalinity, as Carbonate		5	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CTE	59-25142	52	Alkalinity, as Carbonate		9	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	53	Chloride (IC)		18	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	55	Hydroxide	<	1	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CTE	59-25142	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CTE	59-25142	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	60	Sulfate (IC)		34	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	61	Phosphorus, Total		0.03	mg/l	0.01	SM 4500-PB	05/18/2003	1830	TSM	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	62	Alkalinity, Total (CaCO3)		290	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CTE	59-25142	62	Alkalinity, Total (CaCO3)		287	mg/l	5	SM2320-B	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	63	Hardness, (calc)		220	mg/l	5	SM 2340B	05/23/2003	1000	EJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CTE	59-25142	68	TDS		401	mg/l	10	EPA 160.1	05/12/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	133	Cation Sum		6.3	meq/l	0.1	ASTM D-59	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	134	Anion Sum		7.1	meq/l	0.1	ASTM D-59	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	145	Iron (T), as Fe		0.15	mg/l	0.02	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	05/16/2003	1143	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	263	Calcium (T), as Ca		53	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	264	Magnesium (T), as Mg		32	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	265	Potassium (T), as K		2.7	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	03-U003963	266	Sodium (T), as Na		48	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1015	04	JS	
M_STR1	36	201	CHE	04-U004626	0	Comments									05/17/2004	05/28/2004	05/10/2004	1407	04	ED	Sample received on ice.
M_STR1	36	201	CHE	04-U004626	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B M	05/17/2004	1557	SPS	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	16	TSS		15	mg/l	5	EPA 160.2	05/13/2004	800	JJ	05/11/2004	06/10/2004	05/10/2004	1252	04	ED	
M_STR1	36	201	CHE	04-U004626	22	Cyanide, Dissolved	<	0.002	mg/L	0.002	ASTM D203	05/21/2004	1230	PNM	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	32	Arsenic (D), as As		0.001	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	34	Boron (D), as B	<	0.05	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	36	Calcium (D), as Ca		50	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	37	Chromium (D), as Cr	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	42	Magnesium (D), as Mg		19	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	44	Nickel (D), as Ni	<	0.01	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	45	Potassium (D), as K		1.8	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	46	Selenium (D), as Se		0.001	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	47	Silver (D), as Ag	<	0.005	mg/L	0.005	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	48	Sodium (D), as Na		32	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	49	Zinc (D), as Zn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	50	Alkalinity, as Bicarbonate		260	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	50	Alkalinity, as Bicarbonate		284	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	06/10/2004	05/10/2004	1252	04	ED	
M_STR1	36	201	CTE	59-26317	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/11/2004	06/10/2004	05/10/2004	1252	04	ED	
M_STR1	36	201	CHE	04-U004626	52	Alkalinity, as Carbonate		18	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	52	Alkalinity, as Carbonate		7	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	06/10/2004	05/10/2004	1252	04	ED	
M_STR1	36	201	CHE	04-U004626	53	Chloride (IC)		7.4	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	60	Sulfate (IC)		13	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	61	Phosphorus, Total		0.05	mg/L	0.01	SM 4500-PB	05/23/2004	0900	TSM	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	62	Alkalinity, Total (CaCO3)		250	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	62	Alkalinity, Total (CaCO3)		244	mg/l	5	SM2320-B	05/14/2004	1030	DI	05/11/2004	06/10/2004	05/10/2004	1252	04	ED	
M_STR1	36	201	CHE	04-U004626	63	Hardness, (calc)		200	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	68	TDS		570	mg/l	10	EPA 160.1	05/13/2004	800	JJ	05/11/2004	06/10/2004	05/10/2004	1252	04	ED	
M_STR1	36	201	CHE	04-U004626	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	133	Cation Sum		5.5	meq/L	0.1	ASTM D-59	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	134	Anion Sum		5.3	meq/L	0.1	ASTM D-59	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	145	Iron (T), as Fe		0.57	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	149	Manganese (T), as Mn		0.02	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	223	Mercury (D), as Hg		0.0002	mg/L	0.0002	EPA 245.2	05/26/2004	1130	AKL	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	263	Calcium (T), as Ca		50	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	264	Magnesium (T), as Mg		19	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	265	Potassium (T), as K		3.1	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CHE	04-U004626	266	Sodium (T), as Na		30	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1407	04	ED	
M_STR1	36	201	CTE	59-26317	17	NO2+NO3, as N	<	0.05	mg/l	0.05	EPA 300.0	06/08/2004	330	DI	06/06/2004	06/10/2004	06/06/2004	0921	04	ED	
M_STR1	36	201	CTE	59-26317	57	Nitrite, as N	<	0.05	mg/l	0.05	EPA 300.0	06/08/2004	330	DI	06/06/2004	06/10/2004	06/06/2004	0921	04	ED	
M_STR1	36	201	CTE	59-26317	58	Orthophosphate		0.07	mg/l	0.05	EPA 300.0	06/08/2004	330	DI	06/06/2004	06/10/2004	06/06/2004	0921	04	ED	
M_STR2	36	202	CHE	02-U009464	13	Temperature, Receiving		6	Deg. C	0.1	SM2550B	10/02/2002	1600	CSM	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	16	TSS	<	5	mg/l	5	EPA 160.2	09/30/2002	0800	DI	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	32	Arsenic (D), as As		0.0009	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	34	Boron (D), as B		0.06	mg/l	0.05	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	36	Calcium (D), as Ca		77	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	42	Magnesium (D), as Mg		53	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	45	Potassium (D), as K		3.5	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	

Lab Data Muddy Streams

Spring/Str	DO	DOG	Lab	Lab_ID	Paran	Parameter_Name	Eq	Paramete	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nan	Comments
M_STR2	36	202	CHE	02-U009464	46	Selenium (D), as Se		0.0021	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.8	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	48	Sodium (D), as Na		54	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	50	Alkalinity, as Bicarbonate		370	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	50	Alkalinity, as Bicarbonate		362	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	09/30/2002	1400	BLP	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	53	Chloride (IC)		38	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	53	Chloride (IC)		38	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	60	Sulfate (IC)		140	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	60	Sulfate (IC)		141	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	61	Phosphorus, Total		0.04	mg/l	0.01	SM4500P-BI	10/14/2002	1100	TSM	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	62	Alkalinity, Total (CaCO3)		297	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	63	Hardness, (calc)		410	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CTE	59-24558	68	TDS		531	mg/l	10	EPA 160.1	09/30/2002	0800	DI	09/27/2002	10/07/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	113	Aluminum (D), as Al		0.06	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	133	Cation Sum		11	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	134	Anion Sum		10	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	145	Iron (T), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	263	Calcium (T), as Ca		77	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	264	Magnesium (T), as Mg		52	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	265	Potassium (T), as K		3.4	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009464	266	Sodium (T), as Na		52	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1145	04	ED	
M_STR2	36	202	CHE	02-U009765	13	Temperature, Receiving		9	Deg. C	0.1	SM2550B	10/09/2002	1716	EJB	10/09/2002	10/18/2002	10/07/2002	1145	04	JS	
M_STR2	36	202	CHE	02-U009765	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D-203	10/16/2002	1500	TC	10/09/2002	10/18/2002	10/07/2002	1145	04	JS	
M_STR2	36	202	CHE	02-U011429	0	Comments									11/19/2002	12/02/2002	11/12/2002	1330	04	JS	Sample received on ice.
M_STR2	36	202	CHE	02-U011429	13	Temperature, Receiving		2.5	Deg. C	0.1	SM2550-B M	11/19/2002	1700	SPS	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CTE	59-24795	16	TSS		30	mg/l	5	EPA 160.2	11/18/2002	745	BLP	11/14/2002	11/25/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CTE	59-24795	17	NO2+NO3, as N		0.11	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500FG	11/20/2002	1330	TSM	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	34	Boron (D), as B	<	0.05	mg/l	0.05	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	36	Calcium (D), as Ca		69	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	42	Magnesium (D), as Mg		47	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	45	Potassium (D), as K		2.8	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	48	Sodium (D), as Na		47	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	49	Zinc (D), as Zn		0.02	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	50	Alkalinity, as Bicarbonate		380	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CTE	59-24795	50	Alkalinity, as Bicarbonate		365	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CTE	59-24795	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	11/14/2002	800	JJ	11/14/2002	11/25/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CTE	59-24795	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	53	Chloride (IC)		35	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CTE	59-24795	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CTE	59-24795	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	60	Sulfate (IC)		110	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CTE	59-24795	62	Alkalinity, Total (CaCO3)		303	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	63	Hardness, (calc)		370	mg/l	0.2	SM 2340-B	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CTE	59-24795	68	TDS		477	mg/l	10	EPA 160.1	11/18/2002	745	JJ	11/14/2002	11/25/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	133	Cation Sum		9.4	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	134	Anion Sum		9.5	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	145	Iron (T), as Fe		0.08	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	263	Calcium (T), as Ca		72	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	02-U011429	264	Magnesium (T), as Mg		48	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1330	04	JS	
M_STR2	36	202	CHE	03-U003964	0	Comments									05/12/2003	05/27/2003	05/06/2003	1200	04	JS	Sample received on ice.
M_STR2	36	202	CHE	03-U003964	13	Temperature, Receiving		7.3	Deg. C	-20	SM 2550B M	05/12/2003	1630	SPS	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CTE	59-25143	16	TSS		13	mg/l	5	EPA 160.2	05/12/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CTE	59-25143	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203	05/21/2003	1200	PNM	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/15/2003	1400	TSM	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	34	Boron (D), as B		0.05	mg/l	0.01	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	36	Calcium (D), as Ca		51	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	42	Magnesium (D), as Mg		28	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	45	Potassium (D), as K		2.4	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	48	Sodium (D), as Na		41	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	50	Alkalinity, as Bicarbonate		340	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CTE	59-25143	50	Alkalinity, as Bicarbonate		329	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CTE	59-25143	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/12/2003	800	JJ	05/08/2003	05/14/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	52	Alkalinity, as Carbonate		5	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CTE	59-25143	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	53	Chloride (IC)		18	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	55	Hydroxide	<	1	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CTE	59-25143	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CTE	59-25143	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	60	Sulfate (IC)		36	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	61	Phosphorus, Total		0.03	mg/l	0.01	SM 4500-PB	05/18/2003	1830	TSM	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	62	Alkalinity, Total (CaCO3)		290	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CTE	59-25143	62	Alkalinity, Total (CaCO3)		277	mg/l	5	SM2320-B	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	63	Hardness, (calc)		240	mg/l	5	SM 2340B	05/23/2003	1000	EJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CTE	59-25143	68	TDS		391	mg/l	10	EPA 160.1	05/12/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	133	Cation Sum		6.7	meq/l	0.1	ASTM D-596	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	134	Anion Sum		7	meq/l	0.1	ASTM D-596	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	145	Iron (T), as Fe		0.32	mg/l	0.02	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	149	Manganese (T), as Mn		0.01	mg/l	0.01	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	05/16/2003	1143	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	263	Calcium (T), as Ca		58	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	264	Magnesium (T), as Mg		31	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	265	Potassium (T), as K		2.7	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U003964	266	Sodium (T), as Na		45	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1200	04	JS	
M_STR2	36	202	CHE	03-U005298	0	Comments									06/23/2003	07/03/2003	06/19/2003	1320	04	MM	Sample received on ice.
M_STR2	36	202	CHE	03-U005298	13	Temperature, Receiving		4	Deg. C	-20	SM 2550B M	06/23/2003	0900	SPS	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CTE	59-25351	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1319	04	MM	
M_STR2	36	202	CHE	03-U005298	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203	07/01/2003	1100	PNM	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	32	Arsenic (D), as As		0.001	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	41	Lead (D), as Pb	<	0.001	mg/l	0.001	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	46	Selenium (D), as Se		0.0012	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CTE	59-25351	50	Alkalinity, as Bicarbonate		354	mg/l	5	EPA 310.1	06/24/2003	0730	JJ	06/20/2003	07/03/2003	06/19/2003	1319	04	MM	
M_STR2	36	202	CTE	59-25351	52	Alkalinity, as Carbonate		6	mg/l	5	EPA 310.1	06/24/2003	0730	JJ	06/20/2003	07/03/2003	06/19/2003	1319	04	MM	
M_STR2	36	202	CHE	03-U005298	53	Chloride (IC)		24	mg/l	1	EPA 300.0	06/24/2003	1700	CSM	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CTE	59-25351	53	Chloride (IC)		27	mg/l	0.5	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1319	04	MM	
M_STR2	36	202	CTE	59-25351	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1319	04	MM	
M_STR2	36	202	CHE	03-U005298	60	Sulfate (IC)		62	mg/l	1	EPA 300.0	06/24/2003	1700	CSM	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CTE	59-25351	60	Sulfate (IC)		67	mg/l	0.5	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1319	04	MM	
M_STR2	36	202	CHE	03-U005298	61	Phosphorus, Total		0.08	mg/l	0.01	SM 4500-PB	06/24/2003	0900	TSM	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CTE	59-25351	62	Alkalinity, Total (CaCO3)		300	mg/l	5	SM2320-B	06/24/2003	0730	JJ	06/20/2003	07/03/2003	06/19/2003	1319	04	MM	

Lab Data Muddy Streams

Spring/Str	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nam	Comments
M_STR2	36	202	CTE	59-25351	68	TDS		435	mg/l	10	EPA 160.1	06/23/2003	0110	AB	06/20/2003	07/03/2003	06/19/2003	1319	04	MM	
M_STR2	36	202	CHE	03-U005298	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	145	Iron (T), as Fe		0.13	mg/l	0.02	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	263	Calcium (T), as Ca		64	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	264	Magnesium (T), as Mg		40	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	265	Potassium (T), as K		3.3	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U005298	266	Sodium (T), as Na		47	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/19/2003	1320	04	MM	
M_STR2	36	202	CHE	03-U007006	0	Comments									08/12/2003	08/29/2003	08/04/2003	1822	04	MM	Sample received on ice.
M_STR2	36	202	CHE	03-U007006	13	Temperature, Receiving		8	Deg. C	-20	SM 2550B M	08/12/2003	1420	DWG	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CTE	59-25522	16	TSS		83	mg/l	5	EPA 160.2	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CTE	59-25522	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203	08/15/2003	1000	PNM	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	32	Arsenic (D), as As		0.0016	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	34	Boron (D), as B		0.07	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	36	Calcium (D), as Ca		66	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	37	Chromium (D), as Cr	<	0.005	mg/l	0.001	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	42	Magnesium (D), as Mg		36	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	43	Manganese (D), as Mn		0.02	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	45	Potassium (D), as K		4.1	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	46	Selenium (D), as Se		0.0012	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	48	Sodium (D), as Na		45	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	50	Alkalinity, as Bicarbonate		350	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CTE	59-25522	50	Alkalinity, as Bicarbonate		282	mg/l	5	EPA 310.1	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CTE	59-25522	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	52	Alkalinity, as Carbonate		14	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CTE	59-25522	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	53	Chloride (IC)		27	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CTE	59-25522	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CTE	59-25522	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	60	Sulfate (IC)		72	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	61	Phosphorus, Total		0.08	mg/l	0.01	SM 4500-PB	08/20/2003	1600	TSM	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	62	Alkalinity, Total (CaCO3)		310	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CTE	59-25522	62	Alkalinity, Total (CaCO3)		231	mg/l	5	SM2320-B	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	63	Hardness, (calc)		310	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CTE	59-25522	68	TDS		457	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	133	Cation Sum		8.3	meq/l	0.1	ASTM D-59	08/20/2003	1416	RIF	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	134	Anion Sum		8.5	meq/l	0.1	ASTM D-59	08/20/2003	1417	RIF	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	145	Iron (T), as Fe		1.2	mg/l	0.02	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	149	Manganese (T), as Mn		0.05	mg/l	0.01	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	263	Calcium (T), as Ca		69	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	264	Magnesium (T), as Mg		38	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	265	Potassium (T), as K		4.8	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U007006	266	Sodium (T), as Na		45	mg/l	0	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1822	04	MM	
M_STR2	36	202	CHE	03-U009430	0	Comments									10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	Sample received on ice.
M_STR2	36	202	CHE	03-U009430	13	Temperature, Receiving		5	Deg. C	-20	SM 2550B M	10/10/2003	1145	SPS	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	16	TSS		9	mg/l	5	EPA 160.2	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203	10/22/2003	1300	PNM	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	32	Arsenic (D), as As		0.001	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	34	Boron (D), as B		0.06	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	36	Calcium (D), as Ca		74	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	42	Magnesium (D), as Mg		46	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	45	Potassium (D), as K		3.6	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	46	Selenium (D), as Se		0.0007	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	48	Sodium (D), as Na		46	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	50	Alkalinity, as Bicarbonate		411	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	53	Chloride (IC)		28	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	60	Sulfate (IC)		88	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	61	Phosphorus, Total		0.06	mg/l	0.01	SM 4500-PB	10/17/2003	1330	TSM	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	62	Alkalinity, Total (CaCO3)		337	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	63	Hardness, (calc)		370	mg/l	1	SM 2340B	10/24/2003	630	DWG	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CTE	59-25784	68	TDS		507	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	145	Iron (T), as Fe		0.05	mg/l	0.02	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	149	Manganese (T), as Mn		0.01	mg/l	0.01	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	150	Mercury (T), as Hg	<	0.0002	mg/l	0.0002	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	263	Calcium (T), as Ca		73	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	264	Magnesium (T), as Mg		46	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	265	Potassium (T), as K		3.7	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	03-U009430	266	Sodium (T), as Na		45	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1630	04	JS, RG	
M_STR2	36	202	CHE	04-U004627	0	Comments									05/17/2004	05/28/2004	05/10/2004	1702	04	ED	Sample received on ice.
M_STR2	36	202	CHE	04-U004627	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B M	05/17/2004	1557	SPS	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	16	TSS		28	mg/l	5	EPA 160.2	05/13/2004	800	JJ	05/11/2004	06/10/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	22	Cyanide, Dissolved	<	0.002	mg/L	0.002	ASTM D203	05/26/2004	1200	PNM	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	32	Arsenic (D), as As	<	0.0005	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	34	Boron (D), as B	<	0.05	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	36	Calcium (D), as Ca		48	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	37	Chromium (D), as Cr	<	0.005	mg/L	0.001	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	42	Magnesium (D), as Mg		18	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	44	Nickel (D), as Ni	<	0.01	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	45	Potassium (D), as K		2.4	mg/L	0.2	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	46	Selenium (D), as Se		0.0006	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	47	Silver (D), as Ag	<	0.005	mg/L	0.005	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	48	Sodium (D), as Na		28	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	49	Zinc (D), as Zn		0.01	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	50	Alkalinity, as Bicarbonate		280	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	50	Alkalinity, as Bicarbonate		276	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	06/10/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/11/2004	06/10/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	52	Alkalinity, as Carbonate		9	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	06/10/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	53	Chloride (IC)		5.3	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	60	Sulfate (IC)		9.1	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	61	Phosphorus, Total		0.12	mg/L	0.01	SM 4500-PB	05/23/2004	0900	TSM	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	62	Alkalinity, Total (CaCO3)		230	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	62	Alkalinity, Total (CaCO3)		241	mg/l	5	SM2320-B	05/14/2004	1030	DI	05/11/2004	06/10/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	63	Hardness, (calc)		190	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	68	TDS		271	mg/l	10	EPA 160.1	05/13/2004	800	JJ	05/11/2004	06/10/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	133	Cation Sum		5.1	meq/L	0.1	ASTM D-59	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	134	Anion Sum		4.9	meq/L	0.1	ASTM D-59	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	145	Iron (T), as Fe		1.6	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	149	Manganese (T), as Mn		0.07	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	223	Mercury (D), as Hg	<	0.0002	mg/L	0.0002	EPA 245.2	05/26/2004	1130	AKL	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	263	Calcium (T), as Ca		59	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	264	Magnesium (T), as Mg		20	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	

Lab Data Muddy Streams

Spring/Stre	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analys	Analys	Date_Receiv	Date_Repor	Date_Samp	Sampl	Sam	Sampler's_Nan	Comments
M_STR2	36	202	CHE	04-U004627	265	Potassium (T), as K		3.4	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CHE	04-U004627	266	Sodium (T), as Na		28	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	1702	04	ED	
M_STR2	36	202	CTE	59-26318	17	NO2+NO3, as N	<	0.05	mg/l	0.05	EPA 300.0	06/08/2004	, 343	DI	06/06/2004	06/10/2004	06/06/2004	1018	04	ED	
M_STR2	36	202	CTE	59-26318	57	Nitrite, as N	<	0.05	mg/l	0.05	EPA 300.0	06/08/2004	343	DI	06/06/2004	06/10/2004	06/06/2004	1018	04	ED	
M_STR2	36	202	CTE	59-26318	58	Orthophosphate		0.08	mg/l	0.05	EPA 300.0	06/08/2004	343	DI	06/06/2004	06/10/2004	06/06/2004	1018	04	ED	
M_STR3	36	203	CHE	01-U005280	0	Comments									06/08/2001	06/25/2001	06/06/2001	2100	04	ED	Sample received on ice.
M_STR3	36	203	CTE	59-22686	0	Comments									06/07/2001	06/20/2001	06/06/2001	2100	04	ED	DIS.METALS FILTERED @ LAB
M_STR3	36	203	CTE	59-22686	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	06/08/2001	0944	SC	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005449	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203	06/14/2001	1500	PNM	06/14/2001	06/26/2001	06/06/2001	2100	04	ED	Sample received on ice.
M_STR3	36	203	CHE	01-U005280	32	Arsenic (D), as As		0.001	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005280	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005280	37	Chromium (D), as Cr		0.0037	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005280	39	Copper (D), as Cu		0.001	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005280	41	Lead (D), as Pb	<	0.005	mg/l	0.005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005280	44	Nickel (D), as Ni		0.0016	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005280	46	Selenium (D), as Se		0.0006	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005280	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005280	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	50	Alkalinity, as Bicarbonate		344	mg/l	5	EPA 310.1	06/07/2001	0730	SC	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	52	Alkalinity, as Carbonate		6	mg/l	5	EPA 310.1	06/07/2001	0730	SC	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	53	Chloride (IC)		22	mg/l	1	EPA 300.0	06/08/2001	0944	SC	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	06/08/2001	0944	SC	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	06/08/2001	0944	SC	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	60	Sulfate (IC)		24	mg/l	1	EPA 300.0	06/08/2001	0944	SC	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	61	Phosphorus, Total		0.06	mg/l	0.05	SM4500-P-B	06/19/2001	1000	JK	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	62	Alkalinity, Total (CaCO3)		293	mg/l	5	EPA 310.1	06/07/2001	0730	SC	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	68	TDS		364	mg/l	10	EPA 160.1	06/07/2001	0700	CB	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005280	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	06/20/2001	1309	MJB	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	145	Iron (T), as Fe		0.4	mg/l	0.1	EPA 236.1	06/18/2001	1141	MK	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U005280	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 245.2	06/22/2001	1300	MJB	06/08/2001	06/25/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	263	Calcium (T), as Ca		41	mg/l	1	EPA 215.1	06/19/2001	1045	MK	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	264	Magnesium (T), as Mg		32	mg/l	1	EPA 242.1	06/19/2001	1131	MK	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	06/18/2001	1404	MK	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CTE	59-22686	266	Sodium (T), as Na		52	mg/l	1	EPA 273.1	06/18/2001	1505	MK	06/07/2001	06/20/2001	06/06/2001	2100	04	ED	
M_STR3	36	203	CHE	01-U007624	0	Comments									08/17/2001	08/31/2001	08/16/2001	1715	04	ED	Sample received on ice.
M_STR3	36	203	CTE	59-23035	0	Comments									08/17/2001	09/26/2001	08/16/2001	1715	04	ED	DIS.METALS FILTERED @ LAB
M_STR3	36	203	CHE	01-U007624	13	Temperature, Receiving		6	deg C			08/17/2001	1430	CSM	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	17	NO2+NO3, as N		0.31	mg/l	0.03	EPA 300.0	08/17/2001	1210	SC	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203	08/28/2001	1130	PNM	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	32	Arsenic (D), as As		0.0009	mg/l	0.0005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	37	Chromium (D), as Cr		0.0036	mg/l	0.0005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	39	Copper (D), as Cu		0.0007	mg/l	0.0005	EPA 200.8	08/23/2001	1548	JJT	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	41	Lead (D), as Pb	<	0.005	mg/l	0.005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	44	Nickel (D), as Ni		0.0022	mg/l	0.0005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	46	Selenium (D), as Se		0.0013	mg/l	0.0005	EPA 200.8	08/27/2001	1625	JJT	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	49	Zinc (D), as Zn		0.02	mg/l	0.01	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	50	Alkalinity, as Bicarbonate		357	mg/l	5	EPA 310.1	08/20/2001	1030	MK	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/20/2001	1030	MK	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	53	Chloride (IC)		28	mg/l	0.5	EPA 300.0	08/17/2001	1210	SC	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/17/2001	1210	SC	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	60	Sulfate (IC)		41	mg/l	0.5	EPA 300.0	08/17/2001	1210	SC	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	61	Phosphorus, Total	<	0.05	mg/l	0.05	SM4500-P-B	08/29/2001	0730	SC	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	62	Alkalinity, Total (CaCO3)		293	mg/l	5	EPA 310.1	08/20/2001	1030	MK	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	68	TDS		383	mg/l	10	EPA 160.1	08/21/2001	1300	SC	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	113	Aluminum (D), as Al		0.04	mg/l	0.03	EPA 200.7	08/27/2001	1427	MJB	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	08/24/2001	0718	MK	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	149	Manganese (T), as Mn	<	0.05	mg/l	0.05	EPA 243.1	08/24/2001	0817	MK	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U007624	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	08/23/2001	1548	JJT	08/17/2001	08/31/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	263	Calcium (T), as Ca		53	mg/l	1	EPA 215.1	08/24/2001	1140	MK	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	264	Magnesium (T), as Mg		35	mg/l	1	EPA 242.1	08/24/2001	1215	MK	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	08/24/2001	0918	MK	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CTE	59-23035	266	Sodium (T), as Na		42	mg/l	1	EPA 273.1	08/24/2001	0950	MK	08/17/2001	09/26/2001	08/16/2001	1715	04	ED	
M_STR3	36	203	CHE	01-U009283	0	Comments									09/28/2001	10/26/2001	09/25/2001	1410	04	ED	Sample received on ice. Sample for dissolved analysis filtered in the field.
M_STR3	36	203	CTE	59-23388	0	Comments									09/27/2001	10/05/2001	09/25/2001	1410	04	ED	DIS.METALS FILTERED @ LAB
M_STR3	36	203	CTE	59-23388	16	TSS		10	mg/l	5	EPA 160.2	09/27/2001	0645	CB	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2001	0840	SC	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203	10/09/2001	1500	TC	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	32	Arsenic (D), as As		0.0008	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	37	Chromium (D), as Cr		0.001	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	39	Copper (D), as Cu		0.0008	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	41	Lead (D), as Pb	<	0.005	mg/l	0.005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	44	Nickel (D), as Ni		0.0013	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	46	Selenium (D), as Se		0.0012	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/02/2001	1045	MJB	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	50	Alkalinity, as Bicarbonate		371	mg/l	5	EPA 310.1	09/28/2001	1050	SC	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/28/2001	1050	SC	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	53	Chloride (IC)		29.4	mg/l	0.5	EPA 300.0	09/27/2001	0840	SC	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	60	Sulfate (IC)		44.2	mg/l	0.5	EPA 300.0	09/27/2001	0840	SC	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	61	Phosphorus, Total		0.05	mg/l	0.05	SM4500-P-B	10/04/2001	0730	SC	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	62	Alkalinity, Total (CaCO3)		304	mg/l	5	EPA 310.1	09/28/2001	1050	SC	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	68	TDS		390	mg/l	10	EPA 160.1	09/27/2001	0645	CB	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	113	Aluminum (D), as Al		0.04	mg/l	0.03	EPA 200.7	10/02/2001	1045	MJB	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	145	Iron (T), as Fe		0.1	mg/l	0.1	EPA 236.1	10/02/2001	1538	MK	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U009283	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 245.2	10/11/2001	1200	MJB	09/28/2001	10/26/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	263	Calcium (T), as Ca		57	mg/l	1	EPA 215.1	10/01/2001	1256	MK	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	264	Magnesium (T), as Mg		37	mg/l	1	EPA 242.1	10/01/2001	1422	MK	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	265	Potassium (T), as K		3	mg/l	1	EPA 258.1	10/02/2001	1550	MK	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CTE	59-23388	266	Sodium (T), as Na		42	mg/l	1	EPA 273.1	10/02/2001	1640	MK	09/27/2001	10/05/2001	09/25/2001	1410	04	ED	
M_STR3	36	203	CHE	01-U010396	0	Comments									10/30/2001	11/12/2001	10/29/2001	2000	04	ED	Sample received on ice. Sample for dissolved analysis filtered in the field.
M_STR3	36	203	CTE	59-23575	0	Comments									10/30/2001	11/12/2001	10/29/2001	2000	04	ED	DIS.METALS FILTERED @ LAB
M_STR3	36	203	CHE	01-U010396	13	Temperature, Receiving		12	deg C			10/30/2001	1600	SPS	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	16	TSS		63	mg/l	5	EPA 160.2	11/05/2001	0900	CB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	17	NO2+NO3, as N		0.09	mg/l	0.03	EPA 300.0	10/31/2001	0830	CB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203	11/05/2001	1500	TC	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	11/09/2001	1310	JJT	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	41	Lead (D), as Pb	<	0.005	mg/l	0.005	EPA 200.8	11/09/2001	1310	JJT	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	46	Selenium (D), as Se		0.0017	mg/l	0.0005	EPA 200.8	11/09/2001	1310	JJT	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	11/09/2001	1310	JJT	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	49	Zinc (D), as Zn		0.04	mg/l	0.01	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	50	Alkalinity, as Bicarbonate		356	mg/l	5	EPA 310.1	11/01/2001	0910	SC	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/01/2001	0910	SC	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	53	Chloride (IC)		27.8	mg/l	0.5	EPA 300.0	10/31/2001	0830	CB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	60	Sulfate (IC)		45.8	mg/l	0.5	EPA 300.0	10/31/2001	0830	CB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	61	Phosphorus, Total	<	0.05	mg/l	0.05	SM4500-P-B	11/09/2001	0830	SC	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	62	Alkalinity, Total (CaCO3)		292	mg/l	5	EPA 310.1	11/01/2001	0910	SC	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	68	TDS		414	mg/l	10	EPA 160.1	11/05/2001	0900	CB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	11/06/2001	1026	MK	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	01-U010396	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	11/09/2001	1310	JJT	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	263	Calcium (T), as Ca		56	mg/l	1	EPA 215.1	11/06/2001	1439	MK	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	264	Magnesium (T), as Mg		36	mg/l	1	EPA 242.1	11/06/2001	1533	MK	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	11/06/2001	1228	MK	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CTE	59-23575	266	Sodium (T), as Na		39	mg/l	1	EPA 273.1	11/06/2001	1306	MK	10/30/2001	11/12/2001	10/29/2001	2000	04	ED	
M_STR3	36	203	CHE	02-U003256	13	Temperature, Receiving		0	Deg. C	0.1	SM2550B	04/19/2002	0745	SPS	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	17	NO2+NO3, as N		0.08	mg/l	0.03	EPA 300.0	04/19/2002	1002	SC	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D-20	04/25/2002	1600	TC	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	32	Arsenic (D), as As		0.0011	mg/l	0.0005	EPA 200.8	05/01/2002	1500	JJT	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	39	Copper (D), as Cu	<	0.005	mg/l	0.005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	41	Lead (D), as Pb	<	0.001	mg/l	0.001	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	44	Nickel (D), as Ni		0.0026	mg/l	0.0005	EPA 200.8	05/01/2002	1500	JJT	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	46	Selenium (D), as Se		0.0021	mg/l	0.0005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	04/23/2002	1235	MJB	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	50	Alkalinity, as Bicarbonate		334	mg/l	5	EPA 310.1	04/24/2002	0945	DI	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	04/24/2002	0945	DI	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	53	Chloride (IC)		28	mg/l	1	EPA 300.0	04/19/2002	1002	SC	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	60	Sulfate (IC)		53	mg/l	1	EPA 300.0	04/19/2002	1002	SC	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	61	Phosphorus, Total	<	0.05	mg/l	0.05	SM4500-P-B	05/08/2002	0830	SC	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	62	Alkalinity, Total (CaCO3)		274	mg/l	5	EPA 310.1	04/24/2002	0945	DI	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	68	TDS		406	mg/l	10	EPA 160.1	04/23/2002	0930	DI	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	

Lab Data Muddy Streams

Spring/Str	DO	DOG	Lab	Lab_ID	Param	Parameter_Name	Eq	Paramet	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nan	Comments
M_STR3	36	203	CHE	02-U003256	113	Aluminum (D), as Al		0.03	mg/l	0.03	EPA 200.7	04/23/2002	1235	MJB	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	149	Manganese (T), as Mn	<	0.05	mg/l	0.05	EPA 243.1	04/30/2002	1207	MK	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U003256	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	263	Calcium (T), as Ca		51	mg/l	1	EPA 215.1	05/01/2002	0831	MK	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	264	Magnesium (T), as Mg		33	mg/l	1	EPA 242.1	05/01/2002	0902	MK	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	04/30/2002	1234	MK	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CTE	59-23911	266	Sodium (T), as Na		41	mg/l	1	EPA 273.1	04/30/2002	1311	MK	04/19/2002	05/20/2002	04/18/2002	1425	04	ED	
M_STR3	36	203	CHE	02-U005002	13	Temperature, Receiving		13	Deg. C	0.1	SM2550B	06/05/2002	2055	DWG	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	17	NO2+NO3, as N		0.11	mg/l	0.03	EPA 300.0	06/07/2002	0935	SC	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D-203	06/08/2002	1700	TC	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.8	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	50	Alkalinity, as Bicarbonate		346	mg/l	5	EPA 310.1	06/07/2002	1000	DI	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	06/07/2002	1000	DI	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	53	Chloride (IC)		30	mg/l	1	EPA 300.0	06/07/2002	0935	SC	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	60	Sulfate (IC)		55	mg/l	1	EPA 300.0	06/07/2002	0935	SC	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	61	Phosphorus, Total		0.08	mg/l	0.05	SM4500-P-B	06/06/2002	0800	SC	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	62	Alkalinity, Total (CaCO3)		284	mg/l	5	EPA 310.1	06/07/2002	1000	DI	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	68	TDS		418	mg/l	10	EPA 160.1	06/10/2002	1100	DI	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	06/12/2002	0952	MK	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U005002	223	Mercury (D)	<	0.0004	mg/l	0.0004	EPA 245.1	06/27/2002	1510	MJB	06/05/2002	07/08/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	263	Calcium (T), as Ca		53	mg/l	1	EPA 215.1	06/13/2002	0949	MK	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	264	Magnesium (T), as Mg		33	mg/l	1	EPA 242.1	06/13/2002	1025	MK	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	265	Potassium (T), as K		3	mg/l	1	EPA 258.1	06/12/2002	1148	MK	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CTE	59-24062	266	Sodium (T), as Na		38	mg/l	1	EPA 273.1	06/12/2002	1308	MK	06/05/2002	06/18/2002	06/05/2002	0800	04	SC	
M_STR3	36	203	CHE	02-U009465	13	Temperature, Receiving		5	Deg. C	0.1	SM2550B	10/02/2002	1600	CSM	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	16	TSS		7	mg/l	5	EPA 160.2	09/30/2002	0800	DI	09/27/2002	10/07/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	32	Arsenic (D), as As		0.001	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	34	Boron (D), as B		0.07	mg/l	0.05	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	36	Calcium (D), as Ca		60	mg/l	0.2	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	42	Magnesium (D), as Mg		39	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	45	Potassium (D), as K		2.7	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	46	Selenium (D), as Se		0.0027	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.8	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	48	Sodium (D), as Na		42	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	50	Alkalinity, as Bicarbonate		370	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	50	Alkalinity, as Bicarbonate		357	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	09/30/2002	1400	BLP	09/27/2002	10/07/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	53	Chloride (IC)		30	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	60	Sulfate (IC)		54	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	61	Phosphorus, Total		0.03	mg/l	0.01	SM4500P-BI	10/14/2002	1100	TSM	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	62	Alkalinity, Total (CaCO3)		293	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	63	Hardness, (calc)		310	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CTE	59-24559	68	TDS		399	mg/l	10	EPA 160.1	09/30/2002	0800	DI	09/27/2002	10/07/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	133	Cation Sum		8.1	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	134	Anion Sum		8	meq/l	0.1	ASTM D-596	10/10/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	145	Iron (T), as Fe		0.42	mg/l	0.02	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	149	Manganese (T), as Mn		0.02	mg/l	0.01	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	263	Calcium (T), as Ca		62	mg/l	0.2	EAP 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	264	Magnesium (T), as Mg		39	mg/l	0.2	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	265	Potassium (T), as K		2.9	mg/l	0.2	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009465	266	Sodium (T), as Na		43	mg/l	0.2	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/25/2002	1418	04	ED	
M_STR3	36	203	CHE	02-U009766	13	Temperature, Receiving		10	Deg. C	0.1	SM2550B	10/09/2002	1716	EJB	10/09/2002	10/18/2002	10/07/2002	1045	04	JS	
M_STR3	36	203	CHE	02-U009766	22	Cyanide, Dissolved		0.002	mg/l	0.002	ASTM D-203	10/16/2002	1500	TC	10/09/2002	10/18/2002	10/07/2002	1045	04	JS	
M_STR3	36	203	CHE	03-U003965	0	Comments									05/12/2003	05/27/2003	05/06/2003	1400	04	JS	Sample received on ice.
M_STR3	36	203	CHE	03-U003965	13	Temperature, Receiving		6	Deg. C	-20	SM 2550B M	05/12/2003	1630	SPS	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	16	TSS		41	mg/l	5	EPA 160.2	05/12/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	22	Cyanide, Dissolved		0.005	mg/l	0.002	ASTM D203(	05/21/2003	1200	PNM	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/15/2003	1400	TSM	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	32	Arsenic (D), as As		0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	34	Boron (D), as B		0.05	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	36	Calcium (D), as Ca		51	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	42	Magnesium (D), as Mg		28	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	45	Potassium (D), as K		2.1	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	48	Sodium (D), as Na		50	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	50	Alkalinity, as Bicarbonate		350	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	50	Alkalinity, as Bicarbonate		354	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/12/2003	800	JJ	05/08/2003	05/14/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	52	Alkalinity, as Carbonate		6	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	52	Alkalinity, as Carbonate		10	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	53	Chloride (IC)		20	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	55	Hydroxide	<	1	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	60	Sulfate (IC)		27	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	61	Phosphorus, Total		0.05	mg/l	0.01	SM 4500-PB	05/18/2003	1830	TSM	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	62	Alkalinity, Total (CaCO3)		290	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	62	Alkalinity, Total (CaCO3)		307	mg/l	5	SM2320-B	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	63	Hardness, (calc)		240	mg/l	5	SM 2340B	05/23/2003	1000	EJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CTE	59-25144	68	TDS		415	mg/l	10	EPA 160.1	05/12/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	133	Cation Sum		7.1	meq/l	0.1	ASTM D-596	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	134	Anion Sum		7.1	meq/l	0.1	ASTM D-596	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	145	Iron (T), as Fe		0.5	mg/l	0.02	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	149	Manganese (T), as Mn		0.02	mg/l	0.01	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	05/16/2003	1143	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	263	Calcium (T), as Ca		61	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	264	Magnesium (T), as Mg		34	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	265	Potassium (T), as K		2.6	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U003965	266	Sodium (T), as Na		57	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1400	04	JS	
M_STR3	36	203	CHE	03-U005299	0	Comments									06/23/2003	07/03/2003	06/19/2003	1534	04	MM	Sample received on ice.
M_STR3	36	203	CHE	03-U005299	13	Temperature, Receiving		3	Deg. C	-20	SM 2550B M	06/23/2003	0900	SPS	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	17	NO2+NO3, as N		0.08	mg/l	0.03	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203(	07/01/2003	1100	PNM	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	32	Arsenic (D), as As		0.0011	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	41	Lead (D), as Pb	<	0.001	mg/l	0.001	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	44	Nickel (D), as Ni		0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	46	Selenium (D), as Se		0.0014	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	

Lab Data Muddy Streams

Spring/Stre	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nam	Comments
M_STR3	36	203	CHE	03-U005299	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	50	Alkalinity, as Bicarbonate		356	mg/l	5	EPA 310.1	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	53	Chloride (IC)		24	mg/l	1	EPA 300.0	06/24/2003	1700	CSM	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	53	Chloride (IC)		26	mg/l	0.5	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	60	Sulfate (IC)		39	mg/l	1	EPA 300.0	06/24/2003	1700	CSM	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	60	Sulfate (IC)		39	mg/l	0.5	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	61	Phosphorus, Total		0.07	mg/l	0.01	SM 4500-PB	06/24/2003	0900	TSM	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	62	Alkalinity, Total (CaCO3)		292	mg/l	5	SM2320-B	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CTE	59-25352	68	TDS		379	mg/l	10	EPA 160.1	06/23/2003	0110	AB	06/20/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	145	Iron (T), as Fe		0.35	mg/l	0.02	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	263	Calcium (T), as Ca		61	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	264	Magnesium (T), as Mg		36	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	265	Potassium (T), as K		3.4	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U005299	266	Sodium (T), as Na		44	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/19/2003	1534	04	MM	
M_STR3	36	203	CHE	03-U007007	0	Comments									08/12/2003	08/29/2003	08/04/2003	1950	04	MM	Sample received on ice.
M_STR3	36	203	CHE	03-U007007	13	Temperature, Receiving		7	Deg. C	-20	SM 2550B M	08/12/2003	1420	DWG	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	16	TSS		113	mg/l	5	EPA 160.2	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	17	NO2+NO3, as N		0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203(	08/15/2003	1000	PNM	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	32	Arsenic (D), as As		0.0013	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	34	Boron (D), as B		0.06	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	36	Calcium (D), as Ca		58	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	37	Chromium (D), as Cr	<	0.005	mg/l	0.001	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	42	Magnesium (D), as Mg		33	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	43	Manganese (D), as Mn		0.01	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	45	Potassium (D), as K		3.4	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	46	Selenium (D), as Se		0.0014	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	48	Sodium (D), as Na		41	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	50	Alkalinity, as Bicarbonate		360	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	50	Alkalinity, as Bicarbonate		333	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	51	Acidity, as CaCO3		6	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	53	Chloride (IC)		24	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	60	Sulfate (IC)		40	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	61	Phosphorus, Total		0.05	mg/l	0.01	SM 4500-PB	08/20/2003	1600	TSM	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	62	Alkalinity, Total (CaCO3)		300	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	62	Alkalinity, Total (CaCO3)		273	mg/l	5	SM2320-B	08/11/2003	0830	JJ	08/06/2003	08/12/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	63	Hardness, (calc)		280	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CTE	59-25527	68	TDS		361	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	133	Cation Sum		7.5	meq/l	0.1	ASTM D-59(	08/20/2003	1417	RIF	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	134	Anion Sum		7.4	meq/l	0.1	ASTM D-59(	08/20/2003	1418	RIF	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	145	Iron (T), as Fe		1.7	mg/l	0.02	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	149	Manganese (T), as Mn		0.05	mg/l	0.01	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	263	Calcium (T), as Ca		63	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	264	Magnesium (T), as Mg		35	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	265	Potassium (T), as K		4.5	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U007007	266	Sodium (T), as Na		40	mg/l	0	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/04/2003	1950	04	MM	
M_STR3	36	203	CHE	03-U009431	0	Comments									10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	Sample received on ice.
M_STR3	36	203	CHE	03-U009431	13	Temperature, Receiving		5	Deg. C	-20	SM 2550B M	10/10/2003	1155	SPS	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CTE	59-25785	16	TSS		11	mg/l	5	EPA 160.2	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CTE	59-25785	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203(	10/23/2003	1500	PNM	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	32	Arsenic (D), as As		0.0009	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	34	Boron (D), as B		0.05	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	36	Calcium (D), as Ca		62	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	42	Magnesium (D), as Mg		36	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	43	Manganese (D), as Mn		0.02	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	45	Potassium (D), as K		2.8	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	46	Selenium (D), as Se		0.0011	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	48	Sodium (D), as Na		38	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CTE	59-25785	50	Alkalinity, as Bicarbonate		373	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CTE	59-25785	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CTE	59-25785	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	53	Chloride (IC)		25	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CTE	59-25785	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CTE	59-25785	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	60	Sulfate (IC)		42	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	61	Phosphorus, Total		0.04	mg/l	0.01	SM 4500-PB	10/17/2003	1330	TSM	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CTE	59-25785	62	Alkalinity, Total (CaCO3)		306	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	63	Hardness, (calc)		300	mg/l	1	SM 2340B	10/15/2003	1200	DWG	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CTE	59-25785	68	TDS		406	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	145	Iron (T), as Fe		0.11	mg/l	0.02	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	149	Manganese (T), as Mn		0.02	mg/l	0.01	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	150	Mercury (T), as Hg	<	0.0002	mg/l	0.0002	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	263	Calcium (T), as Ca		62	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	264	Magnesium (T), as Mg		37	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	265	Potassium (T), as K		2.9	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	03-U009431	266	Sodium (T), as Na		38	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1730	04	JS, RG	
M_STR3	36	203	CHE	04-U004628	0	Comments									05/17/2004	05/28/2004	05/10/2004	2025	04	ED	Sample received on ice.
M_STR3	36	203	CHE	04-U004628	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B M	05/17/2004	1557	SPS	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	16	TSS		52	mg/l	5	EPA 160.2	05/13/2004	800	JJ	05/11/2004	06/10/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	22	Cyanide, Dissolved		0.003	mg/L	0.002	ASTM D203(	05/26/2004	1200	PNM	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	32	Arsenic (D), as As	<	0.0005	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	34	Boron (D), as B	<	0.05	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	36	Calcium (D), as Ca		42	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	37	Chromium (D), as Cr	<	0.005	mg/L	0.001	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	40	Iron (D), as Fe		0.02	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	42	Magnesium (D), as Mg		14	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	44	Nickel (D), as Ni	<	0.01	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	45	Potassium (D), as K		2.2	mg/L	0.2	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	46	Selenium (D), as Se		0.0005	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	47	Silver (D), as Ag	<	0.005	mg/L	0.005	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	48	Sodium (D), as Na		23	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	49	Zinc (D), as Zn		0.03	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	50	Alkalinity, as Bicarbonate		250	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	50	Alkalinity, as Bicarbonate		237	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	06/10/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/11/2004	06/10/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	52	Alkalinity, as Carbonate		7	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	06/10/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	53	Chloride (IC)		4.5	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	60	Sulfate (IC)		7.4	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	61	Phosphorus, Total		0.13	mg/L	0.01	SM 4500-PB	05/23/2004	0900	TSM	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	62	Alkalinity, Total (CaCO3)		210	mg/L	1	SM 2320B	05/24/2004	1500	PNM	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	62	Alkalinity, Total (CaCO3)		206	mg/l	5	SM2320-B	05/14/2004	1030	DI	05/11/2004	06/10/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	63	Hardness, (calc)		160	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	

Lab Data Muddy Streams

Spring/Str	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nam	Comments
M_STR3	36	203	CTE	59-26319	68	TDS		247	mg/l	10	EPA 160.1	05/13/2004	800	JJ	05/11/2004	06/10/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	133	Cation Sum		4.3	meq/L	0.1	ASTM D-59	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	134	Anion Sum		4.3	meq/L	0.1	ASTM D-59	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	145	Iron (T), as Fe		1.6	mg/L	0.02	EPA 200.7	05/25/2004	1458	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	149	Manganese (T), as Mn		0.06	mg/L	0.01	EPA 200.7	05/25/2004	1458	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	223	Mercury (D), as Hg	<	0.0002	mg/L	0.0002	EPA 245.2	05/26/2004	1130	AKL	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	263	Calcium (T), as Ca		51	mg/L	0.2	EPA 200.7	05/25/2004	1458	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	264	Magnesium (T), as Mg		16	mg/L	0.2	EPA 200.7	05/25/2004	1458	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	265	Potassium (T), as K		2.5	mg/L	0.2	EPA 200.7	05/25/2004	1458	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CHE	04-U004628	266	Sodium (T), as Na		22	mg/L	0.2	EPA 200.7	05/25/2004	1458	MJB	05/17/2004	05/28/2004	05/10/2004	2025	04	ED	
M_STR3	36	203	CTE	59-26319	17	NO2+NO3, as N	<	0.05	mg/l	0.05	EPA 300.0	06/08/2004	357	DI	06/06/2004	06/10/2004	06/06/2004	1048	04	ED	
M_STR3	36	203	CTE	59-26319	57	Nitrite, as N	<	0.05	mg/l	0.05	EPA 300.0	06/08/2004	357	DI	06/06/2004	06/10/2004	06/06/2004	1048	04	ED	
M_STR3	36	203	CTE	59-26319	58	Orthophosphate		0.07	mg/l	0.05	EPA 300.0	06/08/2004	357	DI	06/06/2004	06/10/2004	06/06/2004	1048	04	ED	
M_STR4	36	204	CHE	01-U005281	0	Comments									06/08/2001	06/25/2001	06/07/2001	1440	04	ED	Sample received on ice.
M_STR4	36	204	CTE	59-22688	0	Comments									06/08/2001	06/21/2001	06/07/2001	1350	04	ED	DIS.METALS FILTERED @ LAB
M_STR4	36	204	CTE	59-22688	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	06/08/2001	0944	SC	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CHE	01-U005450	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203	06/14/2001	1500	PNM	06/14/2001	06/26/2001	06/07/2001	1440	04	ED	Sample received on ice.
M_STR4	36	204	CHE	01-U005281	32	Arsenic (D), as As		0.0011	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CHE	01-U005281	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CHE	01-U005281	37	Chromium (D), as Cr		0.0039	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CHE	01-U005281	39	Copper (D), as Cu		0.0011	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CHE	01-U005281	41	Lead (D), as Pb	<	0.005	mg/l	0.005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CHE	01-U005281	44	Nickel (D), as Ni		0.0016	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CHE	01-U005281	46	Selenium (D), as Se		0.0006	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CHE	01-U005281	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CHE	01-U005281	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CTE	59-22688	50	Alkalinity, as Bicarbonate		344	mg/l	5	EPA 310.1	06/18/2001	0850	SC	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	52	Alkalinity, as Carbonate		17	mg/l	5	EPA 310.1	06/18/2001	0850	SC	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	53	Chloride (IC)		23	mg/l	1	EPA 300.0	06/08/2001	0944	SC	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	06/08/2001	0944	SC	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	06/08/2001	0944	SC	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	60	Sulfate (IC)		22	mg/l	1	EPA 300.0	06/08/2001	0944	SC	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	61	Phosphorus, Total	<	0.05	mg/l	0.05	SM4500-P-B	06/19/2001	1000	JK	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	62	Alkalinity, Total (CaCO3)		310	mg/l	5	EPA 310.1	06/18/2001	0850	SC	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	68	TDS		353	mg/l	10	EPA 160.1	06/12/2001	1100	CB	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CHE	01-U005281	113	Aluminum (D), as Al		0.03	mg/l	0.03	EPA 200.7	06/20/2001	1309	MJB	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CTE	59-22688	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	06/18/2001	1141	MK	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CHE	01-U005281	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 245.2	06/22/2001	1300	MJB	06/08/2001	06/25/2001	06/07/2001	1440	04	ED	
M_STR4	36	204	CTE	59-22688	263	Calcium (T), as Ca		39	mg/l	1	EPA 215.1	06/19/2001	1045	MK	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	264	Magnesium (T), as Mg		34	mg/l	1	EPA 242.1	06/19/2001	1131	MK	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	265	Potassium (T), as K		1	mg/l	1	EPA 258.1	06/18/2001	1404	MK	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CTE	59-22688	266	Sodium (T), as Na		56	mg/l	1	EPA 273.1	06/18/2001	1505	MK	06/08/2001	06/21/2001	06/07/2001	1350	04	ED	
M_STR4	36	204	CHE	02-U003257	13	Temperature, Receiving	<	0	Deg. C	0.1	SM2550B	04/19/2002	0745	SPS	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	04/19/2002	1002	SC	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D-203	04/25/2002	1600	TC	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	32	Arsenic (D), as As	<	0.0005	mg/l	0.0005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	39	Copper (D), as Cu	<	0.005	mg/l	0.005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	41	Lead (D), as Pb	<	0.001	mg/l	0.001	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	44	Nickel (D), as Ni		0.0019	mg/l	0.0005	EPA 200.8	05/01/2002	1500	JJT	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	46	Selenium (D), as Se		0.0016	mg/l	0.0005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	04/22/2002	1113	MJB	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	50	Alkalinity, as Bicarbonate		431	mg/l	5	EPA 310.1	04/24/2002	0945	DI	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	52	Alkalinity, as Carbonate		11	mg/l	5	EPA 310.1	04/24/2002	0945	DI	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	53	Chloride (IC)		47	mg/l	1	EPA 300.0	04/19/2002	1002	SC	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	60	Sulfate (IC)		68	mg/l	1	EPA 300.0	04/19/2002	1002	SC	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	61	Phosphorus, Total	<	0.05	mg/l	0.05	SM4500-P-B	05/08/2002	0830	SC	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	62	Alkalinity, Total (CaCO3)		372	mg/l	5	EPA 310.1	04/24/2002	0945	DI	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	68	TDS		548	mg/l	10	EPA 160.1	04/23/2002	0930	DI	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	113	Aluminum (D), as Al	<	0.07	mg/l	0.03	EPA 200.7	04/22/2002	1113	MJB	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	145	Iron (T), as Fe		0.2	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	149	Manganese (T), as Mn	<	0.05	mg/l	0.05	EPA 243.1	04/30/2002	1207	MK	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U003257	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	263	Calcium (T), as Ca		58	mg/l	1	EPA 215.1	05/01/2002	0831	MK	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	264	Magnesium (T), as Mg		41	mg/l	1	EPA 242.1	05/01/2002	0902	MK	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	04/30/2002	1234	MK	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CTE	59-23910	266	Sodium (T), as Na		79	mg/l	1	EPA 273.1	04/30/2002	1311	MK	04/19/2002	05/20/2002	04/17/2002	1615	04	ED	
M_STR4	36	204	CHE	02-U005003	13	Temperature, Receiving		12	Deg. C	0.1	SM2550B	06/05/2002	2055	DWG	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	06/07/2002	0935	SC	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D-203	06/08/2002	1700	TC	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	32	Arsenic (D), as As		0.1	mg/l	0.1	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.8	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	50	Alkalinity, as Bicarbonate		361	mg/l	5	EPA 310.1	06/07/2002	1000	DI	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	52	Alkalinity, as Carbonate		17	mg/l	5	EPA 310.1	06/07/2002	1000	DI	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	53	Chloride (IC)		60	mg/l	1	EPA 300.0	06/07/2002	0935	SC	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	60	Sulfate (IC)		71	mg/l	1	EPA 300.0	06/07/2002	0935	SC	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	61	Phosphorus, Total		0.1	mg/l	0.05	SM4500-P-B	06/06/2002	0800	SC	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	62	Alkalinity, Total (CaCO3)		325	mg/l	5	EPA 310.1	06/07/2002	1000	DI	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	68	TDS		513	mg/l	10	EPA 160.1	06/10/2002	1100	DI	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	113	Aluminum (D), as Al		0.06	mg/l	0.03	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	145	Iron (T), as Fe		0.4	mg/l	0.1	EPA 236.1	06/12/2002	0952	MK	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	02-U005003	223	Mercury (D)	<	0.0004	mg/l	0.0004	EPA 245.1	06/24/2002	1430	MJB	06/05/2002	07/08/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	263	Calcium (T), as Ca		34	mg/l	1	EPA 215.1	06/13/2002	0949	MK	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	264	Magnesium (T), as Mg		42	mg/l	1	EPA 242.1	06/13/2002	1025	MK	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	265	Potassium (T), as K		3	mg/l	1	EPA 258.1	06/12/2002	1148	MK	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CTE	59-24061	266	Sodium (T), as Na		87	mg/l	1	EPA 273.1	06/12/2002	1308	MK	06/05/2002	06/18/2002	06/04/2002	1720	04	SC	
M_STR4	36	204	CHE	03-U003966	0	Comments									05/12/2003	05/27/2003	05/06/2003	1802	04	JS	Sample received on ice.
M_STR4	36	204	CHE	03-U003966	13	Temperature, Receiving		7	Deg. C	-20	SM 2550B M	05/12/2003	1630	SPS	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CTE	59-25145	16	TSS		17	mg/l	5	EPA 160.2	05/12/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1800	04	JS	
M_STR4	36	204	CTE	59-25145	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1800	04	JS	
M_STR4	36	204	CHE	03-U003966	22	Cyanide, Dissolved		0.004	mg/l	0.002	ASTM D203	05/21/2003	1200	PNM	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/15/2003	1400	TSM	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	36	Calcium (D), as Ca		50	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	42	Magnesium (D), as Mg		27	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	43	Manganese (D), as Mn		0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	45	Potassium (D), as K		2	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	48	Sodium (D), as Na		49	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	50	Alkalinity, as Bicarbonate		360	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CTE	59-25145	50	Alkalinity, as Bicarbonate		346	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1800	04	JS	
M_STR4	36	204	CTE	59-25145	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/12/2003	800	JJ	05/08/2003	05/14/2003	05/06/2003	1800	04	JS	
M_STR4	36	204	CHE	03-U003966	52	Alkalinity, as Carbonate		5	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CTE	59-25145	52	Alkalinity, as Carbonate		13	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1800	04	JS	
M_STR4	36	204	CHE	03-U003966	53	Chloride (IC)		18	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	55	Hydroxide	<	1	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CTE	59-25145	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1800	04	JS	
M_STR4	36	204	CTE	59-25145	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1800	04	JS	
M_STR4	36	204	CHE	03-U003966	60	Sulfate (IC)		25	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	61	Phosphorus, Total		0.02	mg/l	0.01	SM 4500-PB	05/18/2003	1830	TSM	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	62	Alkalinity, Total (CaCO3)		300	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CTE	59-25145	62	Alkalinity, Total (CaCO3)		306	mg/l	5	SM2320-B	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1800	04	JS	
M_STR4	36	204	CHE	03-U003966	63	Hardness, (calc)		240	mg/l	5	SM 2340B	05/23/2003	1000	EJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CTE	59-25145	68	TDS		399	mg/l	10	EPA 160.1	05/12/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1800	04	JS	
M_STR4	36	204	CHE	03-U003966	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	133	Cation Sum		6.9	meq/l	0.1	ASTM D-59	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	134	Anion Sum		7.1	meq/l	0.1	ASTM D-59	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	145	Iron (T), as Fe		0.29	mg/l	0.02	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	149	Manganese (T), as Mn		0.02	mg/l	0.01	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	

Lab Data Muddy Streams

Spring/Str	DO(	DOG	Lab	Lab_ID	Paran	Parameter_Name	Eq	Paramet	Unit_of_Mea	Method_	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nan	Comments
M_STR4	36	204	CHE	03-U003966	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	05/16/2003	1143	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	263	Calcium (T), as Ca		60	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	264	Magnesium (T), as Mg		32	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	265	Potassium (T), as K		2.3	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U003966	266	Sodium (T), as Na		55	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1802	04	JS	
M_STR4	36	204	CHE	03-U005300	0	Comments									06/23/2003	07/03/2003	06/20/2003	0804	04	MM	Sample received on ice.
M_STR4	36	204	CHE	03-U005300	13	Temperature, Receiving		2	Deg. C	-20	SM 2550B M	06/23/2003	0900	SPS	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	17	NO2+NO3, as N		0.05	mg/l	0.03	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203(	07/01/2003	1100	PNM	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	32	Arsenic (D), as As		0.0014	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	41	Lead (D), as Pb	<	0.001	mg/l	0.001	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	44	Nickel (D), as Ni		0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	46	Selenium (D), as Se		0.0013	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	50	Alkalinity, as Bicarbonate		410	mg/l	5	EPA 310.1	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	52	Alkalinity, as Carbonate		13	mg/l	5	EPA 310.1	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	53	Chloride (IC)		35	mg/l	1	EPA 300.0	06/24/2003	1700	CSM	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	53	Chloride (IC)		36	mg/l	0.5	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	60	Sulfate (IC)		35	mg/l	1	EPA 300.0	06/24/2003	1700	CSM	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	60	Sulfate (IC)		37	mg/l	0.5	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	61	Phosphorus, Total		0.01	mg/l	0.01	SM 4500-PB	06/24/2003	0900	TSM	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	62	Alkalinity, Total (CaCO3)		358	mg/l	5	SM2320-B	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CTE	59-25354	68	TDS		429	mg/l	10	EPA 160.1	06/2[illegible]/2003	1155	AB	06/20/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	145	Iron (T), as Fe		0.18	mg/l	0.02	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	263	Calcium (T), as Ca		56	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	264	Magnesium (T), as Mg		43	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	265	Potassium (T), as K		2.6	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	03-U005300	266	Sodium (T), as Na		75	mg/l	0.2	EPA 200.7	06/24/2003	1442	MJB	06/23/2003	07/03/2003	06/20/2003	0804	04	MM	
M_STR4	36	204	CHE	04-U004630	0	Comments									05/17/2004	05/28/2004	05/11/2004	1645	04	ED	Sample received on ice.
M_STR4	36	204	CHE	04-U004630	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B M	05/17/2004	1557	SPS	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26320	16	TSS		21	mg/l	5	EPA 160.2	05/13/2004	800	JJ	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR4	36	204	CHE	04-U004630	22	Cyanide, Dissolved	<	0.002	mg/L	0.002	ASTM D203(	05/26/2004	1200	PNM	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	32	Arsenic (D), as As		0.0008	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	34	Boron (D), as B	<	0.05	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	36	Calcium (D), as Ca		52	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	37	Chromium (D), as Cr	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	42	Magnesium (D), as Mg		18	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	43	Manganese (D), as Mn		0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	44	Nickel (D), as Ni	<	0.01	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	45	Potassium (D), as K		1.6	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	46	Selenium (D), as Se		0.0006	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	47	Silver (D), as Ag	<	0.005	mg/L	0.005	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	48	Sodium (D), as Na		27	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	49	Zinc (D), as Zn		0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	50	Alkalinity, as Bicarbonate		280	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26320	50	Alkalinity, as Bicarbonate		281	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR4	36	204	CTE	59-26320	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR4	36	204	CHE	04-U004630	52	Alkalinity, as Carbonate		8	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26320	52	Alkalinity, as Carbonate		6	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR4	36	204	CHE	04-U004630	53	Chloride (IC)		5.6	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	60	Sulfate (IC)		9.3	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	61	Phosphorus, Total		0.05	mg/L	0.01	SM 4500-PB	05/23/2004	0900	TSM	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	62	Alkalinity, Total (CaCO3)		240	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26320	62	Alkalinity, Total (CaCO3)		240	mg/l	5	SM2320-B	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR4	36	204	CHE	04-U004630	63	Hardness, (calc)		200	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26320	68	TDS		280	mg/l	10	EPA 160.1	05/13/2004	800	JJ	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR4	36	204	CHE	04-U004630	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	133	Cation Sum		5.3	meq/L	0.1	ASTM D-59(	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	134	Anion Sum		5.2	meq/L	0.1	ASTM D-59(	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	145	Iron (T), as Fe		0.57	mg/L	0.02	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	149	Manganese (T), as Mn		0.03	mg/L	0.01	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	223	Mercury (D), as Hg	<	0.0002	mg/L	0.0002	EPA 245.2	05/26/2004	1130	AKL	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	263	Calcium (T), as Ca		55	mg/L	0.2	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	264	Magnesium (T), as Mg		19	mg/L	0.2	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	265	Potassium (T), as K		1.9	mg/L	0.2	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CHE	04-U004630	266	Sodium (T), as Na		25	mg/L	0.2	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1645	04	ED	
M_STR4	36	204	CTE	59-26345	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1307	BLP	05/13/2004	05/17/2004	05/13/2004	1250	04	AB	
M_STR4	36	204	CTE	59-26345	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1307	BLP	05/13/2004	05/17/2004	05/13/2004	1250	04	AB	
M_STR4	36	204	CTE	59-26345	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/14/2004	1307	BLP	05/13/2004	05/17/2004	05/13/2004	1250	04	AB	
M_STR5	36	205	CTE	59-24313	17	NO2+NO3, as N		0.16	mg/l	0.03	EPA 300.0	08/09/2002	0852	DI	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	22	Cyanide, Dissolved		0.002	mg/l	0.002	ASTM D-203	08/19/2002	1500	TC	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	32	Arsenic (D), as As	<	0.002	mg/l	0.002	EPA 200.8	08/27/2002	1000	:H Lab	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	35	Cadmium (D), as Cd	<	0.001	mg/l	0.001	EPA 200.8	08/27/2002	1000	:H Lab	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	37	Chromium (D), as Cr		0.0034	mg/l	0.002	EPA 200.7	08/27/2002	1000	:H Lab	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	39	Copper (D), as Cu	<	0.001	mg/l	0.001	EPA 200.8	08/27/2002	1000	:H Lab	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	41	Lead (D), as Pb	<	0.001	mg/l	0.001	EPA 200.8	08/27/2002	1000	:H Lab	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	44	Nickel (D), as Ni		0.0069	mg/l	0.001	EPA 200.8	08/27/2002	1000	:H Lab	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	46	Selenium (D), as Se	<	0.002	mg/l	0.002	EPA 200.8	08/27/2002	1000	:H Lab	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	47	Silver (D), as Ag	<	0.002	mg/l	0.002	EPA 200.8	08/27/2002	1000	:H Lab	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	49	Zinc (D), as Zn		0.08	mg/l	0.01	EPA 200.7	08/14/2002	1007	MJB	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	50	Alkalinity, as Bicarbonate		312	mg/l	5	EPA 310.1	08/12/2002	1445	DI	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	52	Alkalinity, as Carbonate		7	mg/l	5	EPA 310.1	08/12/2002	1445	DI	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	53	Chloride (IC)		26	mg/l	1	EPA 300.0	08/09/2002	0852	DI	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	60	Sulfate (IC)		37	mg/l	1	EPA 300.0	08/09/2002	0852	DI	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	61	Phosphorus, Total	<	0.05	mg/l	0.05	SM4500-P-B	09/03/2002	0800	SC	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	62	Alkalinity, Total (CaCO3)		267	mg/l	5	EPA 310.1	08/12/2002	1445	DI	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	68	TDS		329	mg/l	10	EPA 160.1	08/12/2002	1000	DI	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	113	Aluminum (D), as Al		0.04	mg/l	0.03	EPA 200.7	08/14/2002	1047	MJB	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	145	Iron (T), as Fe	<	0.1	mg/l	0.1	EPA 236.1	09/17/2002	0815	MK	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	149	Manganese (T), as Mn	<	0.05	mg/l	0.05	EPA 243.1	09/17/2002	1015	MK	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CHE	02-U007394	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	08/29/2002	1000	:H Lab	08/08/2002	08/30/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	263	Calcium (T), as Ca		51	mg/l	1	EPA 215.1	09/18/2002	1208	MK	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	264	Magnesium (T), as Mg		34	mg/l	1	EPA 242.1	09/18/2002	1228	MK	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	09/17/2002	1057	MK	08/08/2002	09/20/2002	08/08/2002	1152	04	ED	
M_STR5	36	205	CTE	59-24313	266	Sodium (T), as Na		31	mg/l	1	EPA 273.1	09/17/2002	1122	MK	08/08/2002	09/20/2002	08/08/2002	1752	04	ED	
M_STR5	36	205	CHE	02-U009466	13	Temperature, Receiving		4	Deg. C	0.1	SM2550B	10/02/2002	1600	CSM	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	16	TSS		6	mg/l	5	EPA 160.2	09/30/2002	0800	DI	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	17	NO2+NO3, as N		0.17	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	32	Arsenic (D), as As		0.0009	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	34	Boron (D), as B		0.06	mg/l	0.05	EPA 200.7	10/09/2002	1059	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	36	Calcium (D), as Ca		52	mg/l	0.2	EAP 200.7	10/10/2002	1453	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	42	Magnesium (D), as Mg		35	mg/l	0.2	EPA 200.7	10/10/2002	1453	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	45	Potassium (D), as K		2	mg/l	0.2	EPA 200.7	10/10/2002	1453	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	46	Selenium (D), as Se		0.0035	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.8	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	48	Sodium (D), as Na		32	mg/l	0.2	EPA 200.7	10/10/2002	1453	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	50	Alkalinity, as Bicarbonate		320	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	50	Alkalinity, as Bicarbonate		326	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	09/30/2002	1400	BLP	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	52	Alkalinity, as Carbonate		10	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	53	Chloride (IC)		27	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	53	Chloride (IC)		27	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	60	Sulfate (IC)		37	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	60	Sulfate (IC)		36	mg/l	1	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	61	Phosphorus, Total		0.01	mg/l	0.01	SM4500P-B(	10/14/2002	1100	TSM	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	

Lab Data Muddy Streams

Spring/Str	DO	DOG	Lab	Lab_ID	Paral	Parameter_Name	Eq	Paramet	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nan	Comments
M_STR5	36	205	CTE	59-24560	62	Alkalinity, Total (CaCO3)		267	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	63	Hardness, (calc)		300	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CTE	59-24560	68	TDS		352	mg/l	10	EPA 160.1	09/30/2002	0800	DI	09/27/2002	10/07/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	133	Cation Sum		6.9	meq/l	0.1	ASTM D-596	10/11/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	134	Anion Sum		7.1	meq/l	0.1	ASTM D-596	10/11/2002	1000	EJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	145	Iron (T), as Fe		0.13	mg/l	0.02	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	263	Calcium (T), as Ca		53	mg/l	0.2	EAP 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	264	Magnesium (T), as Mg		35	mg/l	0.2	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	265	Potassium (T), as K		2	mg/l	0.2	EPA 200.7	10/14/2002	1434	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009466	266	Sodium (T), as Na		33	mg/l	0.2	EPA 200.7	10/14/2002	1434	MJB	10/02/2002	10/11/2002	09/25/2002	1815	04	ED	
M_STR5	36	205	CHE	02-U009767	13	Temperature, Receiving		12	Deg. C	0.1	SM2550B	10/09/2002	1716	EJB	10/09/2002	10/18/2002	10/06/2002	1834	04	JS	
M_STR5	36	205	CHE	02-U009767	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D-203	10/16/2002	1500	TC	10/09/2002	10/18/2002	10/06/2002	1834	04	JS	
M_STR5	36	205	CHE	02-U011431	0	Comments									11/19/2002	12/02/2002	11/12/2002	1545	04	JS	Sample received on ice.
M_STR5	36	205	CHE	02-U011431	13	Temperature, Receiving		1.5	Deg. C	0.1	SM2550-B M	11/19/2002	1700	SPS	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CTE	59-24797	16	TSS		8	mg/l	5	EPA 160.2	11/18/2002	745	BLP	11/14/2002	11/25/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CTE	59-24797	17	NO2+NO3, as N		0.27	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500FG	11/20/2002	1330	TSM	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	34	Boron (D), as B		0.05	mg/l	0.05	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	36	Calcium (D), as Ca		55	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	42	Magnesium (D), as Mg		36	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	45	Potassium (D), as K		2	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	48	Sodium (D), as Na		33	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	50	Alkalinity, as Bicarbonate		350	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CTE	59-24797	50	Alkalinity, as Bicarbonate		328	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CTE	59-24797	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	11/14/2002	800	JJ	11/14/2002	11/25/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	52	Alkalinity, as Carbonate	<	1	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CTE	59-24797	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	53	Chloride (IC)		29	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CTE	59-24797	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CTE	59-24797	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	60	Sulfate (IC)		39	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CTE	59-24797	62	Alkalinity, Total (CaCO3)		277	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	63	Hardness, (calc)		290	mg/l	0.2	SM 2340-B	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CTE	59-24797	68	TDS		381	mg/l	10	EPA 160.1	11/18/2002	745	JJ	11/14/2002	11/25/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	113	Aluminum (D), as Al		0.03	mg/l	0.03	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	133	Cation Sum		7.2	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	134	Anion Sum		7.4	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	145	Iron (T), as Fe		0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	263	Calcium (T), as Ca		55	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	02-U011431	264	Magnesium (T), as Mg		36	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/12/2002	1545	04	JS	
M_STR5	36	205	CHE	03-U003967	0	Comments									05/12/2003	05/27/2003	05/06/2003	1550	04	JS	Sample received on ice.
M_STR5	36	205	CHE	03-U003967	13	Temperature, Receiving		7	Deg. C	-20	SM 2550B M	05/12/2003	1630	SPS	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CTE	59-25146	16	TSS		31	mg/l	5	EPA 160.2	05/12/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CTE	59-25146	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D2036	05/21/2003	1200	PNM	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/15/2003	1400	TSM	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	36	Calcium (D), as Ca		51	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	42	Magnesium (D), as Mg		28	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	45	Potassium (D), as K		2.1	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	48	Sodium (D), as Na		52	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	50	Alkalinity, as Bicarbonate		360	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CTE	59-25146	50	Alkalinity, as Bicarbonate		363	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CTE	59-25146	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/12/2003	800	JJ	05/08/2003	05/14/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	52	Alkalinity, as Carbonate		6	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CTE	59-25146	52	Alkalinity, as Carbonate		11	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	53	Chloride (IC)		17	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	55	Hydroxide	<	1	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CTE	59-25146	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CTE	59-25146	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	60	Sulfate (IC)		20	mg/l	.1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	61	Phosphorus, Total		0.02	mg/l	0.01	SM 4500-PB	05/18/2003	1830	TSM	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	62	Alkalinity, Total (CaCO3)		300	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CTE	59-25146	62	Alkalinity, Total (CaCO3)		316	mg/l	5	SM2320-B	05/09/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	63	Hardness, (calc)		240	mg/l	5	SM 2340B	05/23/2003	1000	EJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CTE	59-25146	68	TDS		405	mg/l	10	EPA 160.1	05/12/2003	930	DI	05/08/2003	05/14/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	133	Cation Sum		7.2	meq/l	0.1	ASTM D-596	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	134	Anion Sum		7	meq/l	0.1	ASTM D-596	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	145	Iron (T), as Fe		0.46	mg/l	0.02	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	149	Manganese (T), as Mn		0.02	mg/l	0.01	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	05/16/2003	1143	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	263	Calcium (T), as Ca		60	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	264	Magnesium (T), as Mg		33	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	265	Potassium (T), as K		2.6	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U003967	266	Sodium (T), as Na		59	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/06/2003	1550	04	JS	
M_STR5	36	205	CHE	03-U005301	0	Comments									06/23/2003	07/03/2003	06/19/2003	1800	04	MM	Sample received on ice.
M_STR5	36	205	CHE	03-U005301	13	Temperature, Receiving		2	Deg. C	-20	SM 2550B M	06/23/2003	0900	SPS	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	17	NO2+NO3, as N		0.03	mg/l	0.03	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D2036	07/01/2003	1100	PNM	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	32	Arsenic (D), as As		0.0009	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	41	Lead (D), as Pb	<	0.001	mg/l	0.001	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	44	Nickel (D), as Ni		0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	46	Selenium (D), as Se		0.002	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	50	Alkalinity, as Bicarbonate		304	mg/l	5	EPA 310.1	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	52	Alkalinity, as Carbonate		10	mg/l	5	EPA 310.1	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	53	Chloride (IC)		22	mg/l	1	EPA 300.0	06/24/2003	1700	CSM	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	53	Chloride (IC)		26	mg/l	0.5	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	60	Sulfate (IC)		33	mg/l	1	EPA 300.0	06/24/2003	1700	CSM	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	60	Sulfate (IC)		32	mg/l	0.5	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	61	Phosphorus, Total		0.02	mg/l	0.01	SM 4500-PB	06/24/2003	0900	TSM	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	62	Alkalinity, Total (CaCO3)		265	mg/l	5	SM2320-B	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25353	68	TDS		345	mg/l	10	EPA 160.1	06/23/2003	0110	AB	06/20/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	145	Iron (T), as Fe		0.02	mg/l	0.02	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	263	Calcium (T), as Ca		51	mg/l	0.2	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	264	Magnesium (T), as Mg		34	mg/l	0.2	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	265	Potassium (T), as K		2.3	mg/l	0.2	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CHE	03-U005301	266	Sodium (T), as Na		37	mg/l	0.2	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/19/2003	1800	04	MM	
M_STR5	36	205	CTE	59-25523	16	TSS		400	mg/l	5	EPA 160.2	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	17	NO2+NO3, as N		0.12	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	50	Alkalinity, as Bicarbonate		316	mg/l	5	EPA 310.1	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	52	Alkalinity, as Carbonate		6	mg/l	5	EPA 310.1	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1700	04	ED	
M_STR5	36	205	CTE	59-25523	62	Alkalinity, Total (CaCO3)		270	mg/l	5	SM2320-B	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/05/2003	1700	04	ED	

Lab Data Muddy Streams

Spring/Str	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramet	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nan	Comments
M_STR5	36	205	CTE	59-25523	68	TDS		329	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/05/2003	1700	04	ED	
M_STR5	36	205	CHE	03-U007009	0	Comments									08/12/2003	08/29/2003	08/06/2003	0940	04	ED	Sample received on ice.
M_STR5	36	205	CHE	03-U007009	13	Temperature, Receiving		8	Deg. C	-20	SM 2550B M	08/12/2003	1420	DWG	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203(	08/22/2003	0900	PNM	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	32	Arsenic (D), as As		0.0008	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	34	Boron (D), as B		0.05	mg/l	0.01	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	36	Calcium (D), as Ca		54	mg/l	0.2	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	37	Chromium (D), as Cr	<	0.005	mg/l	0.001	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	42	Magnesium (D), as Mg		34	mg/l	0.2	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	45	Potassium (D), as K		2.2	mg/l	0.2	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	46	Selenium (D), as Se		0.0022	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	48	Sodium (D), as Na		34	mg/l	0.2	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	50	Alkalinity, as Bicarbonate		350	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	52	Alkalinity, as Carbonate		7	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	53	Chloride (IC)		25	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	60	Sulfate (IC)		36	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	61	Phosphorus, Total		0.05	mg/l	0.01	SM 4500-PB	08/20/2003	1600	TSM	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	62	Alkalinity, Total (CaCO3)		300	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	63	Hardness, (calc)		270	mg/l	5	SM 2340B	08/25/2003	1000	LD	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/20/2003	1219	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	133	Cation Sum		7	meq/l	0.1	ASTM D-59(	08/20/2003	1419		08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	134	Anion Sum		7.4	meq/l	0.1	ASTM D-59(	08/20/2003	1419		08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	145	Iron (T), as Fe		0.68	mg/l	0.02	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	149	Manganese (T), as Mn		0.02	mg/l	0.01	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	263	Calcium (T), as Ca		58	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	264	Magnesium (T), as Mg		36	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	265	Potassium (T), as K		2.5	mg/l	0.2	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U007009	266	Sodium (T), as Na		34	mg/l	0	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/06/2003	0940	04	ED	
M_STR5	36	205	CHE	03-U009432	0	Comments									10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	Sample received on ice.
M_STR5	36	205	CHE	03-U009432	13	Temperature, Receiving		4	Deg. C	-20	SM 2550B M	10/10/2003	1145	SPS	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CTE	59-25786	16	TSS		11	mg/l	5	EPA 160.2	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CTE	59-25786	17	NO2+NO3, as N		0.09	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203(	10/23/2003	1500	PNM	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	32	Arsenic (D), as As		0.0006	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	34	Boron (D), as B		0.05	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	36	Calcium (D), as Ca		55	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	42	Magnesium (D), as Mg		35	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	44	Nickel (D), as Ni		0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	45	Potassium (D), as K		2	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	46	Selenium (D), as Se		0.002	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	48	Sodium (D), as Na		32	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CTE	59-25786	50	Alkalinity, as Bicarbonate		342	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CTE	59-25786	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CTE	59-25786	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	53	Chloride (IC)		23	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CTE	59-25786	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CTE	59-25786	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	60	Sulfate (IC)		34	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	61	Phosphorus, Total		0.02	mg/l	0.01	SM 4500-PB	10/17/2003	1330	TSM	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CTE	59-25786	62	Alkalinity, Total (CaCO3)		280	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	63	Hardness, (calc)		280	mg/l	1	SM 2340B	10/15/2003	1200	DWG	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CTE	59-25786	68	TDS		366	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	145	Iron (T), as Fe		0.07	mg/l	0.02	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	149	Manganese (T), as Mn		0.01	mg/l	0.01	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	150	Mercury (T), as Hg	<	0.0002	mg/l	0.0002	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	263	Calcium (T), as Ca		55	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	264	Magnesium (T), as Mg		35	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	265	Potassium (T), as K		2.1	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	03-U009432	266	Sodium (T), as Na		32	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/28/2003	10/06/2003	1845	04	JS, RG	
M_STR5	36	205	CHE	04-U004631	0	Comments									05/17/2004	05/28/2004	05/11/2004	1735	04	ED	Sample received on ice.
M_STR5	36	205	CHE	04-U004631	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B M	05/17/2004	1557	SPS	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	16	TSS		49	mg/l	5	EPA 160.2	05/17/2004	800	JJ	05/13/2004	05/24/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	05/13/2004	1349	BLP	05/13/2004	05/24/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	22	Cyanide, Dissolved	<	0.002	mg/L	0.002	ASTM D203(	05/26/2004	1200	PNM	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	32	Arsenic (D), as As		0.0008	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	34	Boron (D), as B	<	0.05	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	36	Calcium (D), as Ca		52	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	37	Chromium (D), as Cr	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	42	Magnesium (D), as Mg		18	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	44	Nickel (D), as Ni	<	0.01	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	45	Potassium (D), as K		1.7	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	46	Selenium (D), as Se		0.0006	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	47	Silver (D), as Ag	<	0.005	mg/L	0.005	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	48	Sodium (D), as Na		27	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	49	Zinc (D), as Zn		0.02	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	50	Alkalinity, as Bicarbonate		290	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	50	Alkalinity, as Bicarbonate		272	mg/l	5	EPA 310.1	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/13/2004	05/24/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	52	Alkalinity, as Carbonate		5	mg/l	5	EPA 310.1	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	53	Chloride (IC)		5.6	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/13/2004	1349	BLP	05/13/2004	05/24/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/13/2004	1349	BLP	05/13/2004	05/24/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	60	Sulfate (IC)		9.1	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	61	Phosphorus, Total		0.05	mg/L	0.01	SM 4500-PB	05/23/2004	0900	TSM	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	62	Alkalinity, Total (CaCO3)		240	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	62	Alkalinity, Total (CaCO3)		232	mg/l	5	SM2320-B	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	63	Hardness, (calc)		200	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CTE	59-26333	68	TDS		290	mg/l	10	EPA 160.1	05/17/2004	800	JJ	05/13/2004	05/24/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	133	Cation Sum		5.3	meq/L	0.1	ASTM D-59(	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	134	Anion Sum		5.1	meq/L	0.1	ASTM D-59(	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	145	Iron (T), as Fe		0.63	mg/L	0.02	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	149	Manganese (T), as Mn		0.02	mg/L	0.01	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	223	Mercury (D), as Hg	<	0.0002	mg/L	0.0002	EPA 245.2	05/26/2004	1130	AKL	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	263	Calcium (T), as Ca		54	mg/L	0.2	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	264	Magnesium (T), as Mg		19	mg/L	0.2	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	265	Potassium (T), as K		2	mg/L	0.2	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR5	36	205	CHE	04-U004631	266	Sodium (T), as Na		25	mg/L	0.2	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/11/2004	1735	04	ED	
M_STR6	36	206	CHE	01-U005282	0	Comments									06/08/2001	06/25/2001	06/07/2001	1700	04	ED	Sample received on ice.
M_STR6	36	206	CTE	59-22689	0	Comments									06/08/2001	06/20/2001	06/07/2001	1700	04	ED	DIS.METALS FILTERED @ LAB
M_STR6	36	206	CTE	59-22689	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	06/08/2001	0944	SC	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U005451	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203(	06/14/2001	1500	PNM	06/14/2001	06/26/2001	06/07/2001	1700	04	ED	Sample received on ice.
M_STR6	36	206	CHE	01-U005282	32	Arsenic (D), as As		0.0016	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U005282	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U005282	37	Chromium (D), as Cr		0.0045	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U005282	39	Copper (D), as Cu		0.0014	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U005282	41	Lead (D), as Pb	<	0.005	mg/l	0.005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U005282	44	Nickel (D), as Ni		0.0014	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U005282	46	Selenium (D), as Se		0.0008	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	

Lab Data Muddy Streams

Spring/Stre	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramete	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Sampl	Sampl	San	Sampler's_Nam	Comments
M_STR6	36	206	CHE	01-U005282	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U005282	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.8	06/13/2001	1529	JJT	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	50	Alkalinity, as Bicarbonate		400	mg/l	5	EPA 310.1	06/18/2001	0850	SC	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	52	Alkalinity, as Carbonate		14	mg/l	5	EPA 310.1	06/18/2001	0850	SC	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	53	Chloride (IC)		40	mg/l	1	EPA 300.0	06/08/2001	0944	SC	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	06/08/2001	0944	SC	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	06/08/2001	0944	SC	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	60	Sulfate (IC)		35	mg/l	1	EPA 300.0	06/08/2001	0944	SC	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	61	Phosphorus, Total	<	0.05	mg/l	0.05	SM4500-P-B	06/19/2001	1000	JK	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	62	Alkalinity, Total (CaCO3)		351	mg/l	5	EPA 310.1	06/18/2001	0850	SC	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	68	TDS		457	mg/l	10	EPA 160.1	06/12/2001	1100	CB	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U005282	113	Aluminum (D), as Al		0.03	mg/l	0.03	EPA 200.7	06/20/2001	1309	MJB	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	145	Iron (T), as Fe		1.1	mg/l	0.1	EPA 236.1	06/18/2001	1141	MK	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U005282	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 245.2	06/22/2001	1300	MJB	06/08/2001	06/25/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	263	Calcium (T), as Ca		37	mg/l	1	EPA 215.1	06/19/2001	1045	MK	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	264	Magnesium (T), as Mg		33	mg/l	1	EPA 242.1	06/19/2001	1131	MK	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	06/18/2001	1404	MK	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CTE	59-22689	266	Sodium (T), as Na		101	mg/l	1	EPA 273.1	06/18/2001	1505	MK	06/08/2001	06/20/2001	06/07/2001	1700	04	ED	
M_STR6	36	206	CHE	01-U007625	0	Comments									08/17/2001	08/31/2001	08/16/2001	0840	04	ED	Sample received on ice.
M_STR6	36	206	CTE	59-23036	0	Comments									08/17/2001	09/26/2001	08/16/2001	0840	04	ED	DIS.METALS FILTERED @ LAB
M_STR6	36	206	CHE	01-U007625	13	Temperature, Receiving		6	deg C			08/17/2001	1430	CSM	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	08/17/2001	1210	SC	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	22	Cyanide, Dissolved		0.015	mg/l	0.002	ASTM D203(	08/28/2001	1130	PNM	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	32	Arsenic (D), as As		0.0022	mg/l	0.0005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	37	Chromium (D), as Cr		0.0051	mg/l	0.0005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.8	08/27/2001	1427	MJB	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	41	Lead (D), as Pb	<	0.005	mg/l	0.005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	44	Nickel (D), as Ni		0.0027	mg/l	0.0005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	46	Selenium (D), as Se		0.0011	mg/l	0.0005	EPA 200.8	08/27/2001	1625	JJT	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.8	08/21/2001	1726	JJT	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	50	Alkalinity, as Bicarbonate		458	mg/l	5	EPA 310.1	08/20/2001	1030	MK	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	08/20/2001	1030	MK	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	53	Chloride (IC)		47	mg/l	0.5	EPA 300.0	08/17/2001	1210	SC	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/17/2001	1210	SC	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	60	Sulfate (IC)		47	mg/l	0.5	EPA 300.0	08/17/2001	1210	SC	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	61	Phosphorus, Total		0.06	mg/l	0.05	SM4500-P-B	08/29/2001	0730	SC	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	62	Alkalinity, Total (CaCO3)		378	mg/l	5	EPA 310.1	08/20/2001	1030	MK	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	68	TDS		515	mg/l	10	EPA 160.1	08/21/2001	1300	SC	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	08/27/2001	1427	MJB	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	145	Iron (T), as Fe		1.7	mg/l	0.1	EPA 236.1	08/24/2001	0718	MK	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U007625	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	08/27/2001	1625	JJT	08/17/2001	08/31/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	263	Calcium (T), as Ca		61	mg/l	1	EPA 215.1	08/24/2001	1140	MK	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	264	Magnesium (T), as Mg		37	mg/l	1	EPA 242.1	08/24/2001	1215	MK	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	265	Potassium (T), as K		4	mg/l	1	EPA 258.1	08/24/2001	0918	MK	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CTE	59-23036	266	Sodium (T), as Na		82	mg/l	1	EPA 273.1	08/24/2001	0950	MK	08/17/2001	09/26/2001	08/16/2001	0840	04	ED	
M_STR6	36	206	CHE	01-U009284	0	Comments									09/28/2001	10/29/2001	09/25/2001	1958	04	ED	Sample received on ice. Sample for dissolved analysis filtered in the field.
M_STR6	36	206	CTE	59-23391	0	Comments									09/27/2001	10/05/2001	09/25/2001	1958	04	ED	DIS.METALS FILTERED @ LAB
M_STR6	36	206	CTE	59-23391	16	TSS		21	mg/l	5	EPA 160.2	09/27/2001	0645	CB	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2001	0840	SC	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203(	10/09/2001	1500	TC	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	32	Arsenic (D), as As		0.0025	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	37	Chromium (D), as Cr		0.006	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	39	Copper (D), as Cu		0.0019	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	41	Lead (D), as Pb	<	0.005	mg/l	0.005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	44	Nickel (D), as Ni		0.0037	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	46	Selenium (D), as Se		0.0009	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	10/25/2001	1442	JJT	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/02/2001	1045	MJB	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	50	Alkalinity, as Bicarbonate		538	mg/l	5	EPA 310.1	09/28/2001	1050	SC	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	09/28/2001	1050	SC	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	53	Chloride (IC)		57.9	mg/l	0.5	EPA 300.0	09/27/2001	0840	SC	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	60	Sulfate (IC)		37.9	mg/l	0.5	EPA 300.0	09/27/2001	0840	SC	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	61	Phosphorus, Total		0.1	mg/l	0.05	SM4500-P-B	10/04/2001	0730	SC	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	62	Alkalinity, Total (CaCO3)		441	mg/l	5	EPA 310.1	09/28/2001	1050	SC	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	68	TDS		595	mg/l	10	EPA 160.1	09/27/2001	0645	CB	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	113	Aluminum (D), as Al		0.05	mg/l	0.03	EPA 200.7	10/02/2001	1045	MJB	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	145	Iron (T), as Fe		0.3	mg/l	0.1	EPA 236.1	10/02/2001	1538	MK	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U009284	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 245.2	10/11/2001	1200	MJB	09/28/2001	10/29/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	263	Calcium (T), as Ca		66	mg/l	1	EPA 215.1	10/01/2001	1256	MK	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	264	Magnesium (T), as Mg		42	mg/l	1	EPA 242.1	10/01/2001	1422	MK	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	265	Potassium (T), as K		9	mg/l	1	EPA 258.1	10/02/2001	1550	MK	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CTE	59-23391	266	Sodium (T), as Na		86	mg/l	1	EPA 273.1	10/02/2001	1640	MK	09/27/2001	10/05/2001	09/25/2001	1958	04	ED	
M_STR6	36	206	CHE	01-U010397	0	Comments									10/30/2001	11/12/2001	10/30/2001	0231	04	ED	Sample received on ice. Sample for dissolved analysis filtered in the field.
M_STR6	36	206	CTE	59-23576	0	Comments									10/30/2001	11/12/2001	10/30/2001	0231	04	ED	DIS.METALS FILTERED @ LAB
M_STR6	36	206	CHE	01-U010397	13	Temperature, Receiving		12	deg C			10/30/2001	1600	SPS	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	17	NO2+NO3, as N		0.05	mg/l	0.03	EPA 300.0	10/31/2001	0830	CB	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203(	11/05/2001	1500	TC	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	11/09/2001	1310	JJT	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	41	Lead (D), as Pb	<	0.005	mg/l	0.005	EPA 200.8	11/09/2001	1310	JJT	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	46	Selenium (D), as Se		0.0008	mg/l	0.0005	EPA 200.8	11/09/2001	1310	JJT	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	11/09/2001	1310	JJT	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	50	Alkalinity, as Bicarbonate		477	mg/l	5	EPA 310.1	11/01/2001	0910	SC	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/01/2001	0910	SC	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	53	Chloride (IC)		43.1	mg/l	0.5	EPA 300.0	10/31/2001	0830	CB	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	60	Sulfate (IC)		44.2	mg/l	0.5	EPA 300.0	10/31/2001	0830	CB	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	61	Phosphorus, Total		0.06	mg/l	0.05	SM4500-P-B	11/09/2001	0830	SC	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	62	Alkalinity, Total (CaCO3)		391	mg/l	5	EPA 310.1	11/01/2001	0910	SC	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	68	TDS		539	mg/l	10	EPA 160.1	11/05/2001	0900	CB	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	11/07/2001	1359	MJB	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	145	Iron (T), as Fe		0.3	mg/l	0.1	EPA 236.1	11/06/2001	1026	MK	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	01-U010397	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	11/09/2001	1310	JJT	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	263	Calcium (T), as Ca		55	mg/l	1	EPA 215.1	11/06/2001	1439	MK	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	264	Magnesium (T), as Mg		38	mg/l	1	EPA 242.1	11/06/2001	1533	MK	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	265	Potassium (T), as K		3	mg/l	1	EPA 258.1	11/06/2001	1228	MK	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CTE	59-23576	266	Sodium (T), as Na		90	mg/l	1	EPA 273.1	11/06/2001	1306	MK	10/30/2001	11/12/2001	10/30/2001	0231	04	ED	
M_STR6	36	206	CHE	02-U003258	13	Temperature, Receiving		0	Deg. C	0.1	SM2550B	04/19/2002	0745	SPS	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	04/19/2002	1002	SC	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D-203	04/25/2002	1600	TC	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	32	Arsenic (D), as As	<	0.001	mg/l	0.0005	EPA 200.8	05/01/2002	1500	JJT	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	39	Copper (D), as Cu	<	0.005	mg/l	0.005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	41	Lead (D), as Pb	<	0.001	mg/l	0.001	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	44	Nickel (D), as Ni		0.0017	mg/l	0.0005	EPA 200.8	05/01/2002	1500	JJT	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	46	Selenium (D), as Se		0.0009	mg/l	0.0005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	47	Silver (D), as Ag	<	0.0005	mg/l	0.0005	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	04/22/2002	1113	MJB	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	50	Alkalinity, as Bicarbonate		439	mg/l	5	EPA 310.1	04/24/2002	0945	DI	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	52	Alkalinity, as Carbonate		8	mg/l	5	EPA 310.1	04/24/2002	0945	DI	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	53	Chloride (IC)		40	mg/l	1	EPA 300.0	04/19/2002	1002	SC	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	60	Sulfate (IC)		46	mg/l	1	EPA 300.0	04/19/2002	1002	SC	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	61	Phosphorus, Total		0.05	mg/l	0.05	SM4500-P-B	05/08/2002	0830	SC	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	62	Alkalinity, Total (CaCO3)		373	mg/l	5	EPA 310.1	04/24/2002	0945	DI	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	68	TDS		536	mg/l	10	EPA 160.1	04/23/2002	0930	DI	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	113	Aluminum (D), as Al	<	0.07	mg/l	0.03	EPA 200.7	04/22/2002	1113	MJB	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	145	Iron (T), as Fe		0.4	mg/l	0.1	EPA 236.1	05/21/2002	1000	MK	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	149	Manganese (T), as Mn	<	0.05	mg/l	0.05	EPA 243.1	04/30/2002	1207	MK	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U003258	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	04/24/2002	1453	JJT	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	263	Calcium (T), as Ca		58	mg/l	1	EPA 215.1	05/01/2002	0831	MK	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	264	Magnesium (T), as Mg		32	mg/l	1	EPA 242.1	05/01/2002	0902	MK	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	265	Potassium (T), as K		2	mg/l	1	EPA 258.1	04/30/2002	1234	MK	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CTE	59-23909	266	Sodium (T), as Na		85	mg/l	1	EPA 273.1	04/30/2002	1311	MK	04/19/2002	05/20/2002	04/17/2002	1337	04	ED	
M_STR6	36	206	CHE	02-U005004	13	Temperature, Receiving		13	Deg. C	0.1	SM2550B	06/06/2002	2055	DWG	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CTE	59-24060	17	NO2+NO3, as N		0.08	mg/l	0.03	EPA 300.0	06/07/2002	0935	SC	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CHE	02-U005004	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D-203	06/08/2002	1700	TC	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CHE	02-U005004	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CHE	02-U005004	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EAP 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CHE	02-U005004	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CHE	02-U005004	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CHE	02-U005004	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CHE	02-U005004	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CHE	02-U005004	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	

Lab Data Muddy Streams

Spring/Str	DO	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Paramete	Unit_of_Mea	Method_	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nam	Comments
M_STR6	36	206	CHE	02-U005004	47	Silver (D), as Ag	<	0.005	mg/l	0.005	EPA 200.8	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CHE	02-U005004	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CTE	59-24060	50	Alkalinity, as Bicarbonate		412	mg/l	5	EPA 310.1	06/07/2002	1000	DI	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CTE	59-24060	52	Alkalinity, as Carbonate		7	mg/l	5	EPA 310.1	06/07/2002	1000	DI	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CTE	59-24060	53	Chloride (IC)		53	mg/l	1	EPA 300.0	06/07/2002	0935	SC	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CTE	59-24060	60	Sulfate (IC)		53	mg/l	1	EPA 300.0	06/07/2002	0935	SC	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CTE	59-24060	61	Phosphorus, Total		0.14	mg/l	0.05	SM4500-P-B	06/06/2002	0800	SC	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CTE	59-24060	62	Alkalinity, Total (CaCO3)		350	mg/l	5	EPA 310.1	06/07/2002	1000	DI	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CTE	59-24060	68	TDS		556	mg/l	10	EPA 160.1	06/10/2002	1100	DI	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CHE	02-U005004	113	Aluminum (D), as Al		0.04	mg/l	0.03	EPA 200.7	07/03/2002	1047	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CTE	59-24060	145	Iron (T), as Fe		0.8	mg/l	0.1	EPA 236.1	06/12/2002	0952	MK	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CHE	02-U005004	223	Mercury (D)	<	0.0004	mg/l	0.0004	EPA 245.1	06/24/2002	1430	MJB	06/05/2002	07/08/2002	06/05/2002	1440	04	SC	
M_STR6	36	206	CTE	59-24060	263	Calcium (T), as Ca		45	mg/l	1	EPA 215.1	06/13/2002	0949	MK	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CTE	59-24060	264	Magnesium (T), as Mg		34	mg/l	1	EPA 242.1	06/13/2002	1025	MK	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CTE	59-24060	265	Potassium (T), as K		4	mg/l	1	EPA 258.1	06/12/2002	1148	MK	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CTE	59-24060	266	Sodium (T), as Na		90	mg/l	1	EPA 273.1	06/12/2002	1308	MK	06/05/2002	06/18/2002	06/05/2002	1400	04	SC	
M_STR6	36	206	CHE	03-U003968	0	Comments									05/12/2003	05/27/2003	05/07/2003	1145	04	JS	Sample received on ice.
M_STR6	36	206	CHE	03-U003968	13	Temperature, Receiving		8	Deg. C	-20	SM 2550B M	05/12/2003	1630	SPS	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	16	TSS		25	mg/l	5	EPA 160.2	05/12/2003	930	DI	05/08/2003	05/14/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	17	NO2+NO3, as N		0.04	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	22	Cyanide, Dissolved		0.008	mg/l	0.002	ASTM D203(	05/21/2003	1200	PNM	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/15/2003	1400	TSM	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	34	Boron (D), as B		0.06	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	36	Calcium (D), as Ca		55	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	42	Magnesium (D), as Mg		31	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	43	Manganese (D), as Mn		0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	45	Potassium (D), as K		2.7	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	48	Sodium (D), as Na		80	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	50	Alkalinity, as Bicarbonate		430	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	50	Alkalinity, as Bicarbonate		433	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/12/2003	800	JJ	05/08/2003	05/14/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	52	Alkalinity, as Carbonate		2	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	52	Alkalinity, as Carbonate		8	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	53	Chloride (IC)		31	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	55	Hydroxide	<	1	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	60	Sulfate (IC)		38	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	61	Phosphorus, Total		0.03	mg/l	0.01	SM 4500-PB	05/18/2003	1830	TSM	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	62	Alkalinity, Total (CaCO3)		360	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	62	Alkalinity, Total (CaCO3)		369	mg/l	5	SM2320-B	05/09/2003	930	DI	05/08/2003	05/14/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	63	Hardness, (calc)		260	mg/l	5	SM 2340B	05/23/2003	1000	EJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CTE	59-25147	68	TDS		474	mg/l	10	EPA 160.1	05/12/2003	930	DI	05/08/2003	05/14/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	133	Cation Sum		8.8	meq/l	0.1	ASTM D-596	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	134	Anion Sum		8.8	meq/l	0.1	ASTM D-596	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	145	Iron (T), as Fe		0.54	mg/l	0.02	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	149	Manganese (T), as Mn		0.03	mg/l	0.01	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	05/16/2003	1143	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	263	Calcium (T), as Ca		66	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	264	Magnesium (T), as Mg		36	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	265	Potassium (T), as K		3.2	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U003968	266	Sodium (T), as Na		90	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/07/2003	1145	04	JS	
M_STR6	36	206	CHE	03-U005302	0	Comments									06/23/2003	07/03/2003	06/20/2003	0949	04	MM	Sample received on ice.
M_STR6	36	206	CHE	03-U005302	13	Temperature, Receiving		4	Deg. C	-20	SM 2550B M	06/23/2003	0900	SPS	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	22	Cyanide, Dissolved	<	0.002	mg/l	0.002	ASTM D203(	07/01/2003	1100	PNM	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	32	Arsenic (D), as As		0.0015	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	35	Cadmium (D), as Cd	<	0.0005	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	37	Chromium (D), as Cr	<	0.005	mg/l	0.005	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	41	Lead (D), as Pb	<	0.001	mg/l	0.001	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	44	Nickel (D), as Ni	<	0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	46	Selenium (D), as Se		0.0012	mg/l	0.0005	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	47	Silver (D), as Ag	<	0.005	mg/l	0.005	200.2/200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	50	Alkalinity, as Bicarbonate		381	mg/l	5	EPA 310.1	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	52	Alkalinity, as Carbonate		17	mg/l	5	EPA 310.1	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	53	Chloride (IC)		39	mg/l	1	EPA 300.0	06/24/2003	1700	CSM	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	53	Chloride (IC)		44	mg/l	0.5	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	60	Sulfate (IC)		36	mg/l	1	EPA 300.0	06/24/2003	1700	CSM	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	60	Sulfate (IC)		44	mg/l	0.5	EPA 300.0	07/01/2003	1335	DI	06/20/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	61	Phosphorus, Total		0.05	mg/l	0.01	SM 4500-PB	06/24/2003	0900	TSM	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	62	Alkalinity, Total (CaCO3)		341	mg/l	5	SM2320-B	06/23/2003	1130	JJ	06/20/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CTE	59-25355	68	TDS		452	mg/l	10	EPA 160.1	06/26/2003	1155	AB	06/20/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	145	Iron (T), as Fe		0.31	mg/l	0.02	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	223	Mercury (D)	<	0.0002	mg/l	0.0002	EPA 200.8	06/25/2003	1236	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	263	Calcium (T), as Ca		58	mg/l	0.2	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	264	Magnesium (T), as Mg		40	mg/l	0.2	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	265	Potassium (T), as K		3	mg/l	0.2	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	03-U005302	266	Sodium (T), as Na		77	mg/l	0.2	EPA 200.7	06/26/2003	1142	MJB	06/23/2003	07/03/2003	06/20/2003	0949	04	MM	
M_STR6	36	206	CHE	04-U004629	0	Comments									05/17/2004	05/28/2004	05/11/2004	1042	04	ED	Sample received on ice.
M_STR6	36	206	CHE	04-U004629	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B M	05/17/2004	1557	SPS	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	16	TSS		42	mg/l	5	EPA 160.2	05/13/2004	800	JJ	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	22	Cyanide, Dissolved	<	0.002	mg/L	0.002	ASTM D203(	05/26/2004	1200	PNM	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	32	Arsenic (D), as As		0.0016	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	34	Boron (D), as B		0.05	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	36	Calcium (D), as Ca		55	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	37	Chromium (D), as Cr	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	42	Magnesium (D), as Mg		25	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	44	Nickel (D), as Ni		0.01	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	45	Potassium (D), as K		2.8	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	46	Selenium (D), as Se		0.0014	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	47	Silver (D), as Ag	<	0.005	mg/L	0.005	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	48	Sodium (D), as Na		85	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	49	Zinc (D), as Zn		0.02	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	50	Alkalinity, as Bicarbonate		420	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	50	Alkalinity, as Bicarbonate		422	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	52	Alkalinity, as Carbonate		11	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	52	Alkalinity, as Carbonate		13	mg/l	5	EPA 310.1	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	53	Chloride (IC)		21	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	60	Sulfate (IC)		21	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	61	Phosphorus, Total		0.08	mg/L	0.01	SM 4500-PB	05/23/2004	0900	TSM	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	62	Alkalinity, Total (CaCO3)		370	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	62	Alkalinity, Total (CaCO3)		368	mg/l	5	SM2320-B	05/14/2004	1030	DI	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	63	Hardness, (calc)		240	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26321	68	TDS		451	mg/l	10	EPA 160.1	05/13/2004	800	JJ	05/11/2004	05/17/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	133	Cation Sum		8.6	meq/L	0.1	ASTM D-596	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	134	Anion Sum		8.3	meq/L	0.1	ASTM D-596	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	145	Iron (T), as Fe		1.4	mg/L	0.02	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	149	Manganese (T), as Mn		0.04	mg/L	0.01	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	223	Mercury (D), as Hg	<	0.0002	mg/L	0.0002	EPA 245.2	05/26/2004	1130	AKL	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	263	Calcium (T), as Ca		58	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	264	Magnesium (T), as Mg		25	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	265	Potassium (T), as K		4	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CHE	04-U004629	266	Sodium (T), as Na		82	mg/L	0.2	EPA 200.7	05/21/2004	1104	MJB	05/17/2004	05/28/2004	05/11/2004	1042	04	ED	
M_STR6	36	206	CTE	59-26339	17	NO2+NO3, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1145	BLP	05/13/2004	05/17/2004	05/13/2004	1311	04	AB	
M_STR6	36	206	CTE	59-26339	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1145	BLP	05/13/2004	05/17/2004	05/13/2004	1311	04	AB	

Lab Data Muddy Streams

Spring/Str	DO(	DOG	Lab	Lab_ID	Paran	Parameter_Name	Eq	Paramet	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analys	Analys	Date_Recei	Date_Repor	Date_Samp	Sampl	San	Sampler's_Nan	Comments
M_STR6	36	206	CTE	59-26339	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/14/2004	1145	BLP	05/13/2004	05/17/2004	05/13/2004	1311	04	AB	
M_STR8	36	208	CHE	02-U009463	13	Temperature, Receiving		4.5	Deg. C	0.1	No Method	10/02/2002	1600	CSM	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	16	TSS		5	mg/l	5	EPA 160.2	09/30/2002	0800	DI	09/27/2002	10/07/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	17	NO2+NO3, as N		0.57	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM4500-FG	10/03/2002	1400	TSM	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	32	Arsenic (D), as As		0.0009	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	34	Boron (D), as B	<	0.05	mg/l	0.05	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	36	Calcium (D), as Ca		48	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	42	Magnesium (D), as Mg		27	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	45	Potassium (D), as K		0.7	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	46	Selenium (D), as Se		0.0007	mg/l	0.0005	EPA 200.8	10/07/2002	1537	JJT	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	48	Sodium (D), as Na		9.8	mg/l	0.2	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	50	Alkalinity, as Bicarbonate		250	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	50	Alkalinity, as Bicarbonate		262	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	09/30/2002	1400	BLP	09/27/2002	10/07/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	52	Alkalinity, as Carbonate		7	mg/l	1	SM2320-B	10/04/2002	1300	CSM	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	53	Chloride (IC)		2.1	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	09/27/2002	1145	DI	09/27/2002	10/07/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	60	Sulfate (IC)		10	mg/l	1	EPA 300.0	10/03/2002	1700	CSM	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	62	Alkalinity, Total (CaCO3)		215	mg/l	5	EPA 310.1	10/04/2002	1000	BLP	09/27/2002	10/07/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	63	Hardness, (calc)		230	mg/l	0.2	SM2340-B	10/07/2002	1000	EJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CTE	59-24561	68	TDS		218	mg/l	10	EPA 160.1	09/30/2002	0800	DI	09/27/2002	10/07/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	113	Aluminum (D), as Al		0.04	mg/l	0.03	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/04/2002	1111	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	133	Cation Sum		5.1	meq/	0.1	No Method	10/10/2002	1000	EJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	134	Anion Sum		4.6	meq/	0.1	No Method	10/10/2002	1000	EJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	145	Iron (T), as Fe		0.03	mg/l	0.02	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U009463	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/08/2002	1000	MJB	10/02/2002	10/10/2002	09/26/2002	1200	04	ED	
M_STR8	36	208	CHE	02-U011432	0	Comments									11/19/2002	12/02/2002	11/13/2002	1245	04	JS	Sample received on ice.
M_STR8	36	208	CHE	02-U011432	13	Temperature, Receiving		1.5	Deg. C	0.1	SM2550-B M	11/19/2002	1700	SPS	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CTE	59-24798	16	TSS		8	mg/l	5	EPA 160.2	11/18/2002	745	BLP	11/14/2002	11/25/2002	11/13/2002	1230	04	JS	
M_STR8	36	208	CTE	59-24798	17	NO2+NO3, as N		0.67	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1230	04	JS	
M_STR8	36	208	CHE	02-U011432	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500FG	11/20/2002	1330	TSM	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	34	Boron (D), as B	<	0.05	mg/l	0.05	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	36	Calcium (D), as Ca		47	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	42	Magnesium (D), as Mg		25	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	45	Potassium (D), as K		0.6	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	48	Sodium (D), as Na		11	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	50	Alkalinity, as Bicarbonate		280	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CTE	59-24798	50	Alkalinity, as Bicarbonate		277	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1230	04	JS	
M_STR8	36	208	CTE	59-24798	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	11/14/2002	800	JJ	11/14/2002	11/25/2002	11/13/2002	1230	04	JS	
M_STR8	36	208	CHE	02-U011432	52	Alkalinity, as Carbonate		4	mg/l	1	SM 2320-B	11/26/2002	630	CSM	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CTE	59-24798	52	Alkalinity, as Carbonate	<	5	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1230	04	JS	
M_STR8	36	208	CHE	02-U011432	53	Chloride (IC)		2.6	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CTE	59-24798	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1230	04	JS	
M_STR8	36	208	CTE	59-24798	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	11/14/2002	1213	DI	11/14/2002	11/25/2002	11/13/2002	1230	04	JS	
M_STR8	36	208	CHE	02-U011432	60	Sulfate (IC)		12	mg/l	1	EPA 300.0	11/22/2002	1700	CSM	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CTE	59-24798	62	Alkalinity, Total (CaCO3)		227	mg/l	5	EPA 310.1	11/19/2002	900	JJ	11/14/2002	11/25/2002	11/13/2002	1230	04	JS	
M_STR8	36	208	CHE	02-U011432	63	Hardness, (calc)		220	mg/l	0.2	SM 2340-B	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CTE	59-24798	68	TDS		257	mg/l	10	EPA 160.1	11/18/2002	745	JJ	11/14/2002	11/25/2002	11/13/2002	1230	04	JS	
M_STR8	36	208	CHE	02-U011432	113	Aluminum (D), as Al		0.03	mg/l	0.03	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	133	Cation Sum		4.9	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	134	Anion Sum		5	meq/l	0.1	ASTM D-596	12/02/2002	1000	EJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	145	Iron (T), as Fe		0.02	mg/l	0.02	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	263	Calcium (T), as Ca		48	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	02-U011432	264	Magnesium (T), as Mg		25	mg/l	0.2	EPA 200.7	11/21/2002	1204	MJB	11/19/2002	12/02/2002	11/13/2002	1245	04	JS	
M_STR8	36	208	CHE	03-U003969	0	Comments									05/12/2003	05/27/2003	05/07/2003	0910	04	JS	Sample received on ice.
M_STR8	36	208	CHE	03-U003969	13	Temperature, Receiving		8	Deg. C	-20	SM 2550B M	05/12/2003	1630	SPS	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	16	TSS		14	mg/l	5	EPA 160.2	05/12/2003	930	DI	05/08/2003	05/14/2003	05/07/2003	0904	04	JS	
M_STR8	36	208	CTE	59-25148	17	NO2+NO3, as N		0.54	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/07/2003	0904	04	JS	
M_STR8	36	208	CHE	03-U003969	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	05/15/2003	1400	TSM	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	32	Arsenic (D), as As	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	36	Calcium (D), as Ca		54	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	42	Magnesium (D), as Mg		24	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	45	Potassium (D), as K		0.6	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	46	Selenium (D), as Se	<	0.1	mg/l	0.1	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	48	Sodium (D), as Na		12	mg/l	0.2	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	49	Zinc (D), as Zn		0.01	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	50	Alkalinity, as Bicarbonate		280	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	50	Alkalinity, as Bicarbonate		287	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/07/2003	0904	04	JS	
M_STR8	36	208	CTE	59-25148	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/12/2003	800	JJ	05/08/2003	05/14/2003	05/07/2003	0904	04	JS	
M_STR8	36	208	CHE	03-U003969	52	Alkalinity, as Carbonate		2	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	52	Alkalinity, as Carbonate		7	mg/l	5	EPA 310.1	05/09/2003	930	DI	05/08/2003	05/14/2003	05/07/2003	0904	04	JS	
M_STR8	36	208	CHE	03-U003969	53	Chloride (IC)		3.1	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	55	Hydroxide	<	1	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/07/2003	0904	04	JS	
M_STR8	36	208	CTE	59-25148	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/08/2003	900	JJ	05/08/2003	05/14/2003	05/07/2003	0904	04	JS	
M_STR8	36	208	CHE	03-U003969	60	Sulfate (IC)		9.3	mg/l	1	EPA 300.0	05/13/2003	1700	CSM	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	62	Alkalinity, Total (CaCO3)		230	mg/l	1	SM 2320B	05/19/2003	1500	CSM	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	62	Alkalinity, Total (CaCO3)		247	mg/l	5	SM2320-B	05/09/2003	930	DI	05/08/2003	05/14/2003	05/07/2003	0904	04	JS	
M_STR8	36	208	CHE	03-U003969	63	Hardness, (calc)		230	mg/l	5	SM 2340B	05/23/2003	1000	EJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CTE	59-25148	68	TDS		270	mg/l	10	EPA 160.1	05/12/2003	930	DI	05/08/2003	05/14/2003	05/07/2003	0904	04	JS	
M_STR8	36	208	CHE	03-U003969	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	05/15/2003	1114	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	133	Cation Sum		5.2	meq/l	0.1	ASTM D-596	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	134	Anion Sum		4.9	meq/l	0.1	ASTM D-596	05/27/2003	1000	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	145	Iron (T), as Fe		0.14	mg/l	0.02	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	149	Manganese (T), as Mn		0.01	mg/l	0.01	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	263	Calcium (T), as Ca		63	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U003969	264	Magnesium (T), as Mg		28	mg/l	0.2	EPA 200.7	05/19/2003	1406	MJB	05/12/2003	05/27/2003	05/07/2003	0910	04	JS	
M_STR8	36	208	CHE	03-U007008	0	Comments									08/12/2003	08/29/2003	08/05/2003	1215	04	ED	Sample received on ice.
M_STR8	36	208	CHE	03-U007008	13	Temperature, Receiving		7	Deg. C	-20	SM 2550B M	08/12/2003	1420	DWG	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	16	TSS		44	mg/l	5	EPA 160.2	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	17	NO2+NO3, as N		0.68	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	08/16/2003	1000	TSM	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	32	Arsenic (D), as As		0.0011	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	34	Boron (D), as B	<	0.05	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	35	Cadmium (D), as Cd	<	0.005	mg/l	0.001	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	36	Calcium (D), as Ca		43	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	42	Magnesium (D), as Mg		24	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	45	Potassium (D), as K		0.7	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	46	Selenium (D), as Se		0.0006	mg/l	0.0005	EPA 200.8	08/18/2003	1202	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	48	Sodium (D), as Na		5.5	mg/l	0.2	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	50	Alkalinity, as Bicarbonate		230	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	50	Alkalinity, as Bicarbonate		220	mg/l	5	EPA 310.1	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	08/12/2003	1035	JJ	08/06/2003	08/12/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	52	Alkalinity, as Carbonate		9	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	52	Alkalinity, as Carbonate		10	mg/l	5	EPA 310.1	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	53	Chloride (IC)		1.4	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-U007008	55	Hydroxide	<	1	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-25526	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1215	04	ED	

Lab Data Muddy Streams

Spring	Site	DOG	DOG	Lab	Lab_ID	Para	Parameter_Name	Eq	Parameter	Unit_of_Mea	Method	Analytical_M	Analytical_D	Analyz	Analyz	Date_Recei	Date_Repor	Date_Sampl	Sampl	Sam	Sampler's_Nam	Comments
M_STR8	36	208	CTE	59-	25526	56	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	08/06/2003	1301	JJ	08/06/2003	08/12/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-	U007008	60	Sulfate (IC)		6.6	mg/l	1	EPA 300.0	08/12/2003	1700	TSM	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-	U007008	62	Alkalinity, Total (CaCO3)		200	mg/l	1	SM 2320B	08/19/2003	1100	TC	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-	25526	62	Alkalinity, Total (CaCO3)		196	mg/l	5	SM2320-B	08/07/2003	0930	JJ	08/06/2003	08/12/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-	U007008	63	Hardness, (calc)		210	mg/l	5	SM 2340B	08/20/2003	1444	RIF	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CTE	59-	25526	68	TDS		208	mg/l	10	EPA 160.1	08/07/2003	0800	BLP	08/06/2003	08/12/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-	U007008	113	Aluminum (D), as Al	<	0.03	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-	U007008	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.01	EPA 200.7	08/18/2003	0947	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-	U007008	133	Cation Sum		4.4	meq/l	0.1	ASTM D-59€	08/20/2003	1418	RIF	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-	U007008	134	Anion Sum		4.2	meq/l	0.1	ASTM D-59€	08/20/2003	1419	RIF	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-	U007008	145	Iron (T), as Fe		0.45	mg/l	0.02	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-	U007008	149	Manganese (T), as Mn		0.02	mg/l	0.01	EPA 200.7	08/18/2003	1143	MJB	08/12/2003	08/29/2003	08/05/2003	1215	04	ED	
M_STR8	36	208	CHE	03-	U009429	0	Comments									10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	Sample received on ice.
M_STR8	36	208	CHE	03-	U009429	13	Temperature, Receiving		5	Deg. C	-20	SM 2550B M	10/10/2003	1155	SPS	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-	25787	16	TSS		10	mg/l	5	EPA 160.2	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-	25787	17	NO2+NO3, as N		0.68	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	31	Ammonia-Nitrogen	<	0.2	mg/l	0.2	SM 4500F	10/13/2003	1300	TSM	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	32	Arsenic (D), as As		0.0011	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	34	Boron (D), as B	<	0.05	mg/l	0.05	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	35	Cadmium (D), as Cd	<	0.005	mg/l	0.005	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	36	Calcium (D), as Ca		46	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	39	Copper (D), as Cu	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	40	Iron (D), as Fe	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	41	Lead (D), as Pb	<	0.07	mg/l	0.07	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	42	Magnesium (D), as Mg		25	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	43	Manganese (D), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	45	Potassium (D), as K		0.6	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	46	Selenium (D), as Se		0.0008	mg/l	0.0005	EPA 200.8	10/16/2003	1333	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	48	Sodium (D), as Na		8.1	mg/l	0.2	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	49	Zinc (D), as Zn	<	0.01	mg/l	0.01	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-	25787	50	Alkalinity, as Bicarbonate		255	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-	25787	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	10/09/2003	900	BLP	10/08/2003	10/15/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-	25787	52	Alkalinity, as Carbonate		8	mg/l	5	EPA 310.1	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	53	Chloride (IC)		1.6	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-	25787	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-	25787	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	10/08/2003	1424	DI	10/08/2003	10/15/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	60	Sulfate (IC)		8.4	mg/l	1	EPA 300.0	10/10/2003	1530	TSM	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-	25787	62	Alkalinity, Total (CaCO3)		222	mg/l	5	SM2320-B	10/15/2003	900	JJ	10/08/2003	10/15/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	63	Hardness, (calc)		220	mg/l	1	SM 2340B	10/27/2003	1000	LD	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CTE	59-	25787	68	TDS		230	mg/l	10	EPA 160.1	10/09/2003	1000	JJ	10/08/2003	10/15/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	113	Aluminum (D), as Al	<	0.03	mg/l	0.03	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	129	Molybdenum (D), as Mo	<	0.02	mg/l	0.02	EPA 200.7	10/15/2003	1037	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	145	Iron (T), as Fe		0.08	mg/l	0.02	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	149	Manganese (T), as Mn	<	0.01	mg/l	0.01	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	263	Calcium (T), as Ca		46	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	03-	U009429	264	Magnesium (T), as Mg		25	mg/l	0.2	EPA 200.7	10/17/2003	1145	MJB	10/10/2003	10/27/2003	10/07/2003	1030	04	JS, RG	
M_STR8	36	208	CHE	04-	U004632	0	Comments									05/17/2004	05/28/2004	05/13/2004	1206	04	ED	Sample received on ice.
M_STR8	36	208	CHE	04-	U004632	13	Temperature, Receiving		0	Deg. C	-20	SM 2550B M	05/17/2004	1557	SPS	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-	26338	16	TSS		28	mg/l	5	EPA 160.2	05/17/2004	800	JJ	05/13/2004	05/24/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-	26338	17	NO2+NO3, as N		0.8	mg/l	0.03	EPA 300.0	05/14/2004	1118	BLP	05/13/2004	05/24/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	31	Ammonia-Nitrogen	<	0.2	mg/L	0.2	SM 4500D	05/20/2004	1200	TSM	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	32	Arsenic (D), as As		0.0009	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	34	Boron (D), as B	<	0.05	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	35	Cadmium (D), as Cd	<	0.005	mg/L	0.001	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	36	Calcium (D), as Ca		53	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	39	Copper (D), as Cu	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	40	Iron (D), as Fe	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	41	Lead (D), as Pb	<	0.07	mg/L	0.07	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	42	Magnesium (D), as Mg		22	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	43	Manganese (D), as Mn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	45	Potassium (D), as K		0.6	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	46	Selenium (D), as Se		0.0006	mg/L	0.0005	EPA 200.8	05/25/2004	1303	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	48	Sodium (D), as Na		7.5	mg/L	0.2	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	49	Zinc (D), as Zn	<	0.01	mg/L	0.01	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	50	Alkalinity, as Bicarbonate		270	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-	26338	50	Alkalinity, as Bicarbonate		255	mg/l	5	EPA 310.1	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-	26338	51	Acidity, as CaCO3	<	5	mg/l	5	D1067-92	05/14/2004	1000	JJ	05/13/2004	05/24/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	52	Alkalinity, as Carbonate	<	1	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-	26338	52	Alkalinity, as Carbonate		9	mg/l	5	EPA 310.1	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	53	Chloride (IC)		1.8	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-	26338	57	Nitrite, as N	<	0.03	mg/l	0.03	EPA 300.0	05/14/2004	1118	BLP	05/13/2004	05/24/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-	26338	58	Orthophosphate	<	0.05	mg/l	0.05	EPA 300.0	05/14/2004	1118	BLP	05/13/2004	05/24/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	60	Sulfate (IC)		6.8	mg/L	1	EPA 300.0	05/18/2004	1100	TSM	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	62	Alkalinity, Total (CaCO3)		220	mg/L	1	SM 2320B	05/25/2004	0930	PNM	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-	26338	62	Alkalinity, Total (CaCO3)		224	mg/l	5	SM2320-B	05/21/2004	745	JJ	05/13/2004	05/24/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	63	Hardness, (calc)		220	mg/L	5	SM 2340B	05/27/2004	1000	LD	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CTE	59-	26338	68	TDS		246	mg/l	10	EPA 160.1	05/17/2004	800	JJ	05/13/2004	05/24/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	113	Aluminum (D), as Al	<	0.1	mg/L	0.1	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	129	Molybdenum (D), as Mo	<	0.02	mg/L	0.02	EPA 200.7	05/19/2004	1006	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	133	Cation Sum		4.8	meq/L	0.1	ASTM D-59€	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	134	Anion Sum		4.6	meq/L	0.1	ASTM D-59€	05/28/2004	1000	DWG	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	145	Iron (T), as Fe		0.39	mg/L	0.02	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	
M_STR8	36	208	CHE	04-	U004632	149	Manganese (T), as Mn		0.02	mg/L	0.01	EPA 200.7	05/24/2004	1257	MJB	05/17/2004	05/28/2004	05/13/2004	1206	04	ED	