



*State of Utah Department of  
Agriculture and Food*

# **2008 State of Utah Ground-Water Program**



*By  
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## ACKNOWLEDGMENTS

The Utah Department of Agriculture and Food's (UDAF) 2008 Ground-Water Sampling Program is successful because of contributions made by many people. UDAF's ground-water steering committee includes Commissioner Leonard Blackham; Directors George Hopkin, Clair Allen, and Dr. David Clark; and Program Leader Clark Burgess. This committee gives guidance, support, and direction to the program.

Efforts by members of the Utah Association of Conservation Districts (UACD) have also contributed greatly to the success of the 2008 sampling program. They helped select sampling sites and navigate us to the locations of wells to be sampled. Their knowledge of local areas and contact with people who desired well sampling proves invaluable.

Terry Monroe and Will Atkin of Utah Division of Water Rights (WR) helped in selection of well sites in the Pahvant and Curlew valleys. Mike Handy with WR helped us in sampling various areas of the state and acted as liaison with UDAF and WR. Water Rights also provided a sampling vehicle for this year's effort.

This program has received excellent support from the UDAF Chemistry Laboratory Division, which performs the sample analyses. The State Chemist, Dr. David Clark; staff chemists, Mohammed Sharaf, Cham Hoang, and Ivett McQueen and technical assistant; James Palmer provided prompt analysis of pesticide and inorganic samples collected during the year.

A critical part of the program is the collection, distribution, and maintenance of data. Anne M. Johnson, UDAF's GIS Coordinator, has been most helpful by efficiently producing GIS-based maps and giving suggestions for proper data management. Her work is exhibited throughout this report. This year a new computerized data collection and management software package has been written which binds sample collection, testing, reporting, and data management into one system. Pavel Milyasvsky a computer programmer for UDAF has written the software. Much of this report is generated by this software. We are grateful for Pavel's help and support.

Virginia Sligting, secretary in The Division of Marketing and Conservation, has prepared all individual report mailings for those participating in this program.

In 2008 Steve Deakins of UDAF helped in the field-sampling program. Without his dedication and excellent work fewer samples would have been collected.

Finally, thanks are extended to the owners of wells without whose participation and trust this program would not have functioned.

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**Front Cover:** *Steve Deakins doing field test on well in central Utah.*



# **Utah Department of Agriculture & Food**

## **State Ground-Water Program**

### **Report 2008**

Utah Department of Agriculture and Food's (UDAF) State Ground-Water Program is funded by the legislature to assist private well owners and other agencies, organizations, and concerned citizens to have a better understanding of water quality. Provisions of the Federal Clean Water Act require drinking water testing of public water systems. This act does not require testing of private wells used for drinking water, irrigation, and livestock watering even though these wells account for the majority of ground-water use in the State of Utah.

This report covers testing of private wells in the state by UDAF's State Ground-Water Program for 2008.

#### **Cooperative Effort**

UDAF has a memorandum of understanding with the Utah Division of Water Rights (WR) for collecting ground-water data from Pahvant and Curlew valleys. Sample analyses were done for inorganic and organic constituents that influence water quality. Guidance from WR has helped in selecting sampling sites and sharing data.

UDAF also works closely with the Department of Environmental Quality (DEQ) in providing expertise for the State Pesticide Management Plan and other ground-water programs. This relationship benefits UDAF by allowing agriculture's voice to be heard and its ideas considered during the planning process. UDAF is an essential link between DEQ and farmers and ranchers of the state regarding environmental issues.

The State Ground-Water Program works with members of local Soil Conservation Districts (SCDs) and Utah Association of Conservation Districts (UACD) to identify private wells for sampling. SCD cooperation and knowledge of the local area has been very beneficial in identifying wells for sampling, meeting well owners, and distributing information. The work of local district members who advertise, collect names, and organize sampling events helps to make the program successful.

#### **UDAF's Ground-Water Sampling Procedures**

UDAF meets with SCDs to inform and update members on ground-water issues. Districts then select wells for sampling in their area and obtain preliminary sample information by using UDAF's Pre-Sample Information Form (Fig. 1). WR selected wells to be sampled for Pahvant and Curlew valleys.

Local SCD members accompanied UDAF personnel to selected well sites. At each well, location was determined using a Global Positioning System (GPS) receiver. Using established protocol Water was then collected for inorganic, bacteria, and pesticide analyses. Samples were packed in ice and taken to the laboratory for analysis. Reports summarizing laboratory results were sent to each well owner. GPS information was provided to UDAF's GIS administrator who provided maps of the sampled areas.

During 2008, UDAF tested all samples for coliform and E. coli bacteria using IDEXX Colilert

MUG kits in the field. This has been a significant addition to the program. Major changes in chemical analysis have taken place during 2007. UDAF's laboratory has added three new analytical devices, Dionex IC3000 for ion measurements, automated titrator for carbonate and bicarbonate, and an ICP mass spectrophotometer for elements. These advancements have increased the number elements, ions, and compounds that can be tested as well as improved the accuracy of the analysis. The laboratory now reports to us Fluoride, Mercury, Nitrate, Perchlorate, and Silver as well as lower detection limits for many of the elements. Total Dissolved Solids (TDS) is now calculated using "sum of constituents" instead of using electrical conductivity measurements.

## **Areas Sampled**

During 2008, 322 samples were taken from wells, drains, and springs in all of the seven UACD zones in the state. The focus of this years work was in zone 4 (Central Utah including Juab, Millard, Piute, Sanpete, Sevier and Wayne counties). Each UACD zone and district sampled is addressed in this report, with a map showing sample location and a table of chemical analyses. Narrative reports are also provided for each sampled district. Below is a general summary of ground-water quality for samples taken during 2008, based on EPA standards.

At the well owner's requests, UDAF provided all collected data on over ### wells and springs to WR to be included in their database. This will assist well owners by having a permanent record of their well's chemistry on file.

## **Summary of Water Quality for 2008**

There were no confirmed pesticide detections in the 170 samples taken during the 2008 sampling season based on EPA standards.

### **Bacteria (Coliform & Ecoli)**

As found in previous years, bacteria are a major problem for private water systems. Twenty-three percent (23%) of the wells and springs sampled this year tested positive for coliform bacteria, as compared to 59% in 1999, 36% in 2000, 29% in 2001, 27% in 2002, 31% in 2003, 33% in 2004, 35% in 2005, 29% in 2006, and 34% in 2007. Although most coliform bacteria do not pose a health problem, their presence in well water indicates that surface waters, soil, or other contamination is getting into the well. Bacteria problems are usually seen in older wells, wells with improper casing and caps, wells that are too shallow or systems that have been improperly maintained.

Of greater concern is the presence of E. coli in water samples. Even though the percentage of contaminated wells is dropping, E. coli is still a serious problem as it indicates that fecal material has gotten into the well. During 2008, 3.5% of the wells and springs sampled tested positive for E. coli as compared to 34% in 1999, 7% in 2000, 4% in 2001, 3.4% in 2002, 5.8% in 2003, 6.6% in 2004, 7.8% in 2005, 4% in 2006, and 2007 3%. These wells have been contaminated with mammalian fecal material, the only source for this bacterium. The source could be effluent from septic systems near the well, poor well construction with livestock near the well head, or open wells in areas where animals and manure are present.

Specific elements that exceed irrigation, livestock, or drinking water standards are discussed in the district reports as described below.

More detailed descriptions of water quality for each sampled area are presented in this report. The report covers specific UACD zones and districts where sampling was conducted, and in some cases separate areas within districts are included where circumstances warrant separate treatment. Tables of chemical, bacterial, and physical characteristics of sampled

water are also included. Each district report will include 4 tables, Primary Drinking Water Standards, Secondary Drinking Water Standards, Irrigation Standards, and Livestock Standards. The tables show standard values, detection limits, and measured results for each sample. If a standard is exceeded the result is underlined and highlighted. A map for each district is included in the report showing each sample location.

Sample site locations can be identified on the map using the "Id#" column from the related table. Values of "ND" indicate that this element or compound was not measured above the detection limit of the procedure used to test for the element or compound.

### **Pesticides**

The generic Pesticide Management Plan (PMP) for the State of Utah identifies five pesticides which have the potential to be a threat to the ground water supply. Each of these pesticides is broad-spectrum herbicides. The pesticides are: (1) Alachlor, (2) Atrazine, (3) Cyanazine, (4) Metolachlor, and (5) Simazine. In addition to these pesticides, the UDAF laboratory also screens for a broad range of other pesticides which are sold and used in the state that have the potential to contaminate ground water resources according to the following list.

#### **List of Pesticides**

|                           |                 |                    |
|---------------------------|-----------------|--------------------|
| Hexachlorocyclopentadiene | Alpha Chlordane | 2,4,5-TP (Silvex)  |
| Hexachlorobenzene         | Dieldrin        | Picloram           |
| Simazine *                | Endrin          | Aldicarb           |
| Atrazine *                | Methoxychlor    | Aldicarb sulfone   |
| Gamma-Lindane             | Chlordane "T"   | Aldicarb sulfoxide |
| Heptachlor                | Toxaphene "T"   | Carbofuran         |
| Alachlor *                | Prometon        | Methomyl           |
| Aldrin                    | Dicamba         | Oxamyl (Vydate)    |
| Heptachlor-Epoxyde        | 2,4-D           | 3-OH Carbofuran    |
| Gamma Chlordane           | PCP             | 3-Keto Carbofuran  |
| Disulfoton                | Diazinon        | Metolachlor *      |

\* Pesticide identified for restriction under the proposed PMP rule.

### **Laboratory Screening for Pesticides**

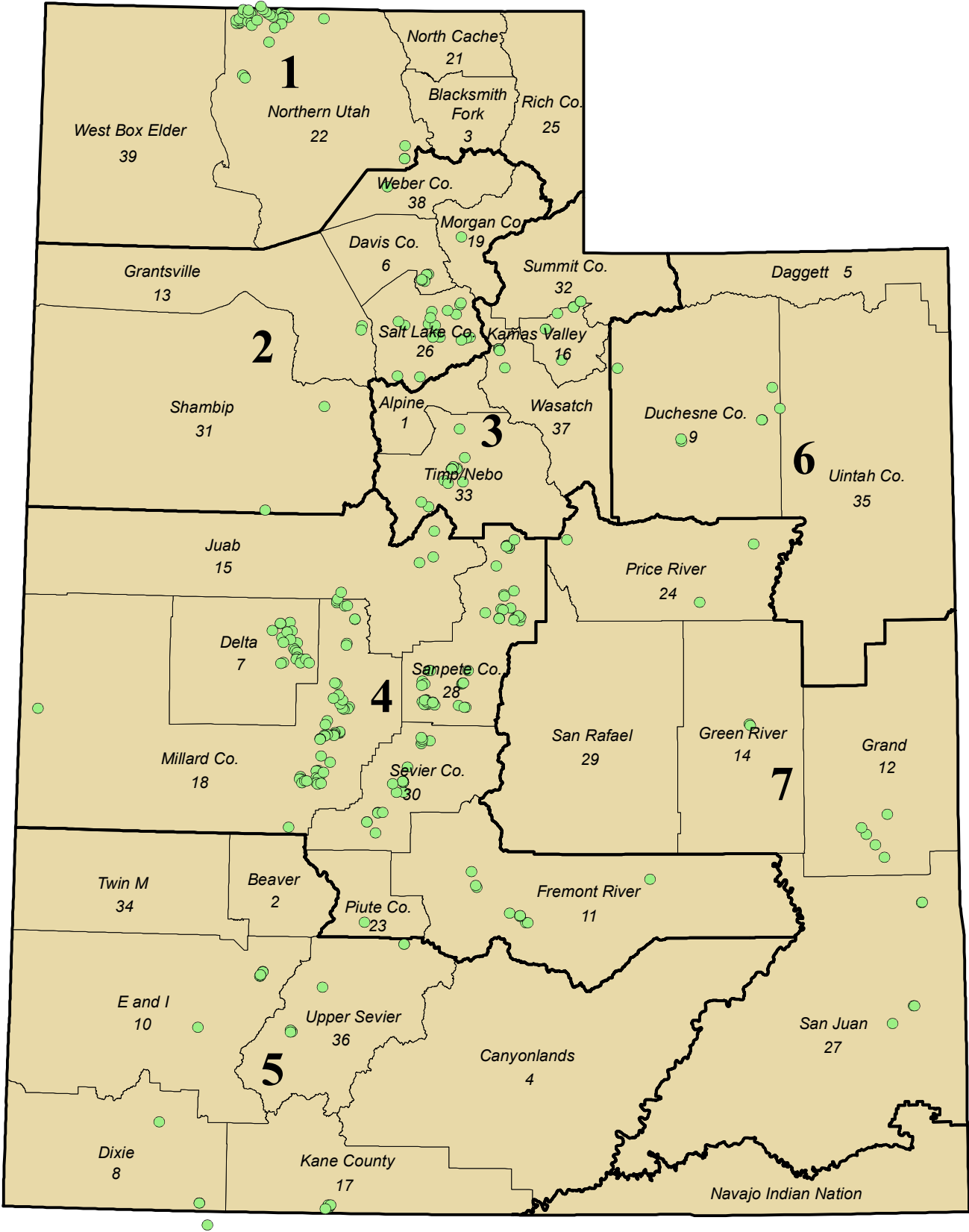
The UDAF laboratory performs a screening analysis of all water samples using four different EPA approved screening methods. The methods are as follows: (1) EPA Method 515.1 used for detecting chlorinated phenoxy acid, (2) EPA Method 505 for detection of chlorinated pesticides and organophosphates, (3) EPA Method 531.1 for detection of carbamates, and (4) an immunoassay method for pesticide residue screening used for detection of chlorinated phenoxy acid and carbamates. The immunoassay method indicates the presence or absence of pesticides in the ground water sample. In the event that a sample tests positive for the presence of pesticides using the screening procedure, a more extensive laboratory process utilizing Gas Chromatography(GC) or High Performance Liquid Chromatography(HPLC) is used to determine the actual contamination level of the suspected pesticide.

Water wells constructed of materials containing Poly-Vinyl Chloride (PVC) can produce "false positives" using the immunoassay method for pesticide screening. Other environmental

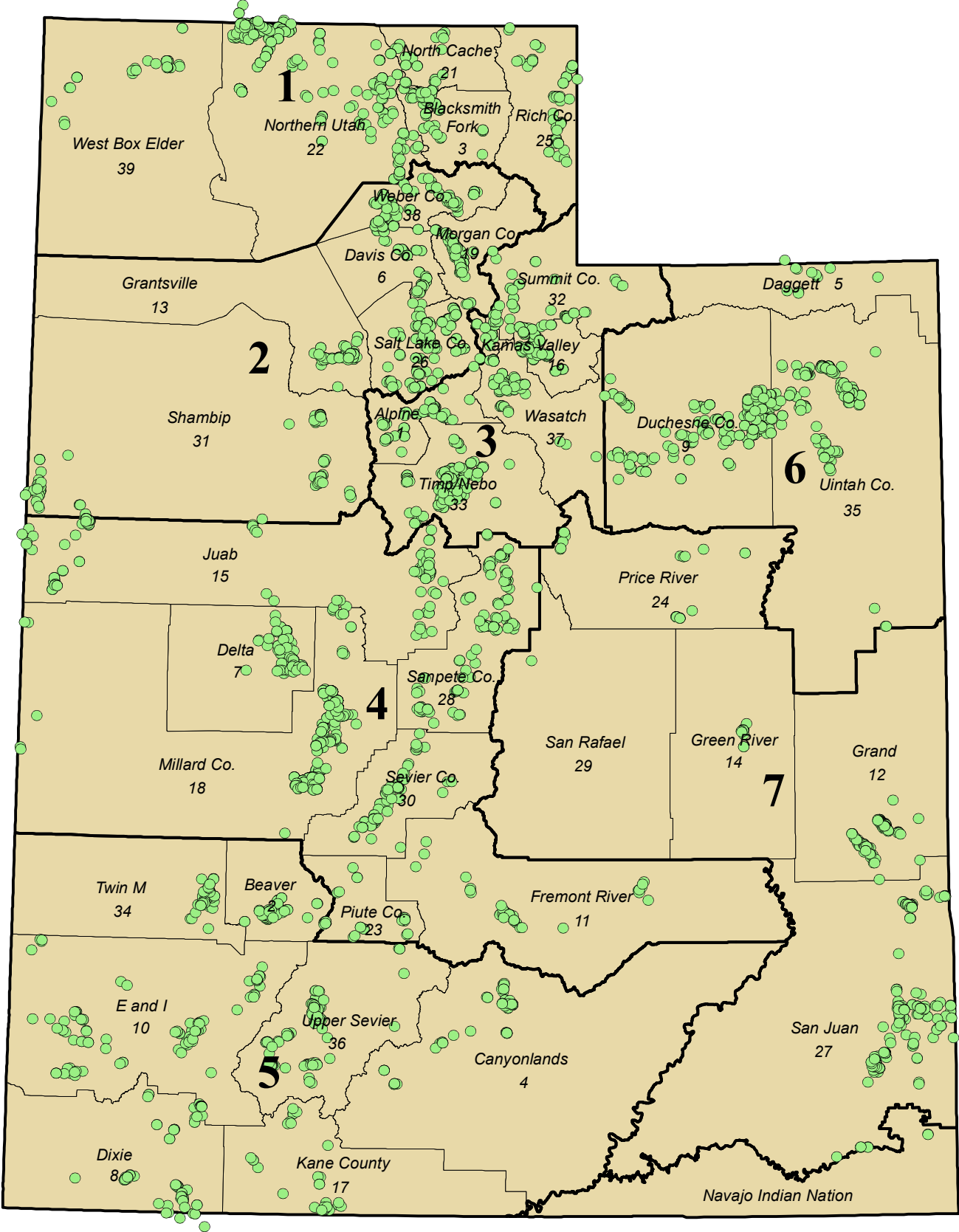
conditions can also combine to produce “hits” in the screening procedure which include: welding done on the well head, which can release compounds from the PVC well casing, dead animals in the wells during sampling, and large diameter shallow wells located in the middle of agricultural fields. When these conditions cause positive “hits” in the screening method, the samples are subjected to the more rigorous GC analysis for further quantification and evaluation.



Map 1. 2008 Ground Water Sample Locations



Map 2. Historic Ground Water Sample Locations 1996 - 2008





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## State Ground Water Program

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|  |  |             |                    |                |                      |             |                      |                              |                       |   |  |                    |               |
|--|--|-------------|--------------------|----------------|----------------------|-------------|----------------------|------------------------------|-----------------------|---|--|--------------------|---------------|
| <p>RECEIVED: _____</p> <p>PLOTTED: _____</p> <p>SAMPLED: _____</p> <p>REPORT: _____</p> <p style="font-size: small; text-align: center;">Office Use Only</p> | <h3 style="text-align: center;">Ground Water Pre-Sample Information Form</h3> <p style="font-size: small;">This is a non-regulatory program. Your personal information is protected under GRAMA provisions. Giving your permission to attach your well information to the Water Rights database will make your name and address public.</p> <table style="width: 100%;"><tr><td style="width: 50%;">Name: _____</td><td style="width: 50%;">Telephone #: _____</td></tr><tr><td>Address: _____</td><td>Other phone #: _____</td></tr><tr><td>City: _____</td><td>Depth of well: _____</td></tr><tr><td>Conservation District: _____</td><td>Depth of water: _____</td></tr><tr><td colspan="2">GPS Coordinates of well (if you have them): _____</td></tr></table> <p>Please sketch a map showing how to locate your well (North is the top of the page). Please give street name, and distances from major intersections or any other landmarks that may be significant.</p> <div style="border: 1px solid black; height: 150px; width: 100%; position: relative;"></div> <p>Can we sample your water without you being present? _____</p> <p>Are there instructions we need to sample your well? _____</p> <p>Would you like your test information to be attached to your Water Right information at the Division of Water Rights? This will allow you to read your report at any time in the future, and provide a permanent record of the chemistry of your well.</p> <p>YES <input type="checkbox"/> (Please enter your water right number if you have it) _____ NO <input type="checkbox"/> (do not attach)</p> <p>By signing this form you are giving permission for the State of Utah Department of Agriculture and Food to enter your property and sample your well.</p> <p>I, the undersigned am the lawful agent of the above described well and grant permission to the Utah Department of Agriculture and Food to access and sample the above-described well.</p> <table style="width: 100%;"><tr><td style="width: 50%; text-align: center;">_____<br/>Signature</td><td style="width: 50%; text-align: center;">_____<br/>Date</td></tr></table> <p style="text-align: center; font-size: small;">For further information contact Mark Quilter at <a href="mailto:mquilter@utah.gov">mquilter@utah.gov</a>, or at the above phone numbers.</p> <div style="text-align: right;"><span style="border: 1px solid black; padding: 2px 5px;">Reset Form</span></div> | Name: _____ | Telephone #: _____ | Address: _____ | Other phone #: _____ | City: _____ | Depth of well: _____ | Conservation District: _____ | Depth of water: _____ | GPS Coordinates of well (if you have them): _____ |  | _____<br>Signature | _____<br>Date |
| Name: _____  | Telephone #: _____   |             |                    |                |                      |             |                      |                              |                       |   |  |                    |               |
| Address: _____   | Other phone #: _____   |             |                    |                |                      |             |                      |                              |                       |   |  |                    |               |
| City: _____  | Depth of well: _____   |             |                    |                |                      |             |                      |                              |                       |   |  |                    |               |
| Conservation District: _____   | Depth of water: _____  |             |                    |                |                      |             |                      |                              |                       |   |  |                    |               |
| GPS Coordinates of well (if you have them): _____  |  |             |                    |                |                      |             |                      |                              |                       |   |  |                    |               |
| _____<br>Signature   | _____<br>Date  |             |                    |                |                      |             |                      |                              |                       |   |  |                    |               |

The above Pre-Sample Information form is available on line at:

<http://ag.utah.gov/conservation/GWPsampleForm.pdf>.

This form is used to request UDAF to sample a well.

## **UACD Zone 1 (Box Elder, Cache, and Rich Counties)**

Forty-one (41) sites were sampled in the Northern Utah Conservation Districts in Zone 1 during the spring, summer, and fall of 2008. No samples were collected in the Blacksmith Fork, North Cache, Rich County or West Box Elder districts.

The Statistical Report below shows a summary of the total number of chemical tests collected (Test Count) for each district in Zone 1. The next four columns summarize the number of tests which exceed the standards for either Primary Drinking Water (DW Primary), Secondary Drinking Water (DW Secondary), Irrigation, or Livestock.

### **Ground Water UACD Zone No 1 Statistical Report For the Samples Collected Between: 1/1/2008 And 11/6/2008**

| District Name       | Sample Count | Test Count  | Test Count Which Result Exceeded Standards |              |            |           |
|---------------------|--------------|-------------|--|--------------|------------|-----------|
|                     |              |             | DW Primary                                 | DW Secondary | Irrigation | Livestock |
| Northern Utah       | 41           | 1640        | 4  | 111          | 163        | 28        |
| <b>Zone Totals:</b> | <b>41</b>    | <b>1640</b> | <b>4</b>                                   | <b>111</b>   | <b>163</b> | <b>28</b> |

Detailed tables follow covering the above water quality categories - General, Irrigation, Livestock, and Culinary (which includes Primary Drinking Water Standards and Secondary Drinking Water Standards) for each district along with a map(s). For the Irrigation, Livestock, and Culinary tables the first row lists the explicit standard for each element or compound (column). The standards for irrigation and livestock originated from the Water quality for agriculture 29 Revision 1, published by the Food and Agriculture Organization of the United Nations. The drinking water primary and secondary standards are from the State of Utah's water quality standards. Below the standards are the column headings (expressed as the chemical abbreviation) for each element or compound tested. Units used in measuring the concentrations of each element or compound are found below each abbreviation. Each row of the table is a single sample identified with a sample number. This sample number shows the sampling location on the map(s) located after the chemistry tables. Highlighted sample results show samples that exceed a standard for that element or compound. Totals at the bottom of each table show how many samples in each column exceeded the standard for that column. The value "ND" indicates that a particular element or compound was "Not Detected" for a given sample.



**General:**

| Sample No | Collected Date | Coliform  | Ecoli | Temperature | EC              | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head | Material     | Casing Condition | Cullinary | Irrigation                          | Industrial                          | Landscape                | Natural                  | Drainage                 | Other                               |
|-----------|----------------|-----------|-------|-------------|-----------------|----------|-----------|---------------|-------------|----------------|-----------|--------------|------------------|-----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| 1         | 8205           | 8/25/2008 | ND    | ND          | 56.5 F (13.6 C) | 191      | 114.0     | 0.400         | 61.00       | Flowing Well   | Vegetated | Soil         | PVC              | Open      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2         | 8206           | 8/25/2008 | POS   | POS         | 60.4 F (15.8 C) | 212      | 127.0     | 0.700         | 67.80       | Pond           | Vegetated | Natural      | Rock             | Open      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3         | 8207           | 8/25/2008 | POS   | ND          | 66.7 F (19.3 C) | 584      | 360.0     | 0.500         | 286.4       | Spring         | Vegetated | Covered      | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4         | 8208           | 8/25/2008 | POS   | POS         | 64.4 F (18.0 C) | 885      | 493.0     | 1.000         | 325.3       | Well           | Gravel    | Well House   | Steel            | Open      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5         | 8209           | 8/25/2008 | ND    | ND          | 70.5 F (21.4 C) | 1790     | 1189.     | 5.800         | 341.1       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6         | 8210           | 8/25/2008 | POS   | ND          | 72.3 F (22.4 C) | 1585     | 971.0     | 5.800         | 271.0       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7         | 8211           | 8/25/2008 | POS   | ND          | 70.7 F (21.5 C) | 1829     | 1217.     | 5.700         | 342.6       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 8         | 8212           | 8/25/2008 | ND    | ND          | 65.5 F (18.6 C) | 2620     | 1256.     | 2.300         | 793.1       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9         | 8213           | 8/25/2008 | POS   | ND          | 64.2 F (17.9 C) | 906      | 507.0     | 1.200         | 318.8       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 10        | 8214           | 8/25/2008 | ND    | ND          | 66.7 F (19.3 C) | 1322     | 702.0     | 1.100         | 519.9       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 11        | 8215           | 8/25/2008 | ND    | ND          | 67.6 F (19.8 C) | 800      | 449.0     | 1.400         | 259.6       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 12        | 8216           | 8/25/2008 | POS   | ND          | 58.5 F (14.7 C) | 710      | 375.0     | 1.100         | 259.1       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 13        | 8217           | 8/25/2008 | POS   | ND          | 71.2 F (21.8 C) | 581      | 336.0     | 1.000         | 199.8       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 14        | 8218           | 8/25/2008 | ND    | ND          | 61.7 F (16.5 C) | 574      | 339.0     | 0.800         | 220.3       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 15        | 8219           | 8/25/2008 | ND    | ND          | 62.4 F (16.9 C) | 479      | 279.0     | 0.500         | 196.9       | Well           | Gravel    | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 16        | 8220           | 8/25/2008 | ND    | ND          | 61.3 F (16.3 C) | 3210     | 1588.     | 2.500         | 1015.       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 17        | 8221           | 8/25/2008 | ND    | ND          | 64.9 F (18.3 C) | 3410     | 1936.     | 4.600         | 807.9       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 18        | 8222           | 8/25/2008 | ND    | ND          | 61.3 F (16.3 C) | 3470     | 1934.     | 5.700         | 713.4       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 19        | 8223           | 8/25/2008 | ND    | ND          | 67.1 F (19.5 C) | 2710     | 1573.     | 2.000         | 948.8       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 20        | 8224           | 8/25/2008 | ND    | ND          | 64.2 F (17.9 C) | 1217     | 664.0     | 0.900         | 543.0       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 21        | 8225           | 8/25/2008 | POS   | ND          | 66.4 F (19.1 C) | 1168     | 730.0     | 1.100         | 487.6       | Well           | Vegetated | Concrete Pad | Steel            | Sealed    | <input type="checkbox"/>            |                                     |                          |                          |                          |                                     |

**Irrigation:**

| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                                 | 8205      | 9/8/2008    | ND         | 0.0184       | ND         | 18.6434    | ND         | ND         | ND          | ND         | 0.0163     | ND        | ND         | 101.9370     | 0.4428    | 0.0032     | 3.4826     |
| 2                                 | 8206      | 9/8/2008    | ND         | 0.0182       | ND         | 20.2641    | ND         | ND         | ND          | ND         | 0.0156     | ND        | ND         | 103.8170     | 0.8457    | 0.0058     | 4.1698     |
| 3                                 | 8207      | 9/8/2008    | ND         | 0.0327       | ND         | 59.4594    | 19.1488    | ND         | ND          | ND         | 0.0265     | ND        | ND         | 257.8770     | 2.8550    | 0.0033     | 33.4436    |
| 4                                 | 8208      | 9/8/2008    | ND         | 0.0781       | ND         | 102.3446   | 172.4812   | ND         | ND          | 0.0007     | 0.0076     | ND        | ND         | 171.3530     | 10.7739   | 0.0241     | 16.8556    |
| 5                                 | 8209      | 9/8/2008    | ND         | 0.2001       | ND         | 81.1460    | 569.6926   | 0.0018     | ND          | 0.0008     | 0.0087     | ND        | ND         | 232.0490     | 17.5823   | 0.1791     | 33.5508    |
| 6                                 | 8210      | 9/8/2008    | ND         | 0.1791       | ND         | 64.1632    | 413.4333   | 0.0010     | ND          | ND         | 0.0081     | ND        | ND         | 228.5000     | 17.1170   | 0.1677     | 26.8538    |
| 7                                 | 8211      | 9/8/2008    | ND         | 0.2191       | ND         | 81.5688    | 594.6707   | ND         | ND          | 0.0007     | 0.0078     | ND        | ND         | 231.9950     | 17.5700   | 0.1814     | 33.6660    |
| 8                                 | 8212      | 9/8/2008    | ND         | 0.0943       | ND         | 211.2383   | 617.8944   | ND         | ND          | 0.0008     | 0.0189     | ND        | ND         | 166.5660     | 19.0294   | 0.0696     | 64.3260    |
| 9                                 | 8213      | 9/8/2008    | ND         | 0.0575       | ND         | 83.9338    | 179.3163   | 0.0030     | ND          | 0.0013     | 0.0109     | ND        | 0.0198     | 183.4910     | 11.0945   | 0.0267     | 26.4555    |
| 10                                | 8214      | 9/8/2008    | ND         | 0.0563       | ND         | 145.6053   | 283.1068   | ND         | ND          | 0.0011     | 0.0111     | ND        | ND         | 165.3750     | 13.4601   | 0.0344     | 37.8433    |
| 11                                | 8215      | 9/8/2008    | ND         | 0.0585       | ND         | 61.0603    | 136.7195   | ND         | ND          | 0.0011     | 0.0054     | ND        | 0.0261     | 181.0980     | 11.3197   | 0.0301     | 25.9683    |
| 12                                | 8216      | 9/8/2008    | ND         | 0.0458       | ND         | 65.3159    | 92.0455    | ND         | ND          | 0.0010     | 0.0158     | ND        | ND         | 211.3510     | 2.2832    | 0.0163     | 23.2604    |
| 13                                | 8217      | 9/8/2008    | ND         | 0.0518       | ND         | 48.8002    | 74.2690    | ND         | ND          | 0.0014     | 0.0083     | ND        | 0.0188     | 175.3180     | 9.2803    | 0.0179     | 18.8725    |
| 14                                | 8218      | 9/8/2008    | ND         | 0.0342       | ND         | 61.4863    | 68.4183    | ND         | ND          | 0.0014     | 0.0208     | ND        | ND         | 194.0700     | 6.5107    | 0.0138     | 16.1625    |
| 15                                | 8219      | 9/8/2008    | ND         | 0.0298       | ND         | 57.8759    | 39.4162    | ND         | ND          | 0.0014     | 0.0072     | ND        | ND         | 180.2910     | 7.5731    | 0.0111     | 12.6647    |
| 16                                | 8220      | 9/8/2008    | ND         | 0.1031       | ND         | 270.1205   | 780.0516   | 0.0008     | ND          | 0.0007     | 0.0074     | ND        | ND         | 181.4540     | 20.1372   | 0.0680     | 82.5639    |
| 17                                | 8221      | 9/8/2008    | ND         | 0.1034       | ND         | 213.7636   | 987.0072   | ND         | ND          | 0.0015     | 0.0058     | ND        | ND         | 226.4820     | 22.8827   | 0.0903     | 66.3740    |
| 18                                | 8222      | 9/8/2008    | ND         | 0.1149       | ND         | 184.9721   | 951.1794   | ND         | ND          | 0.0010     | 0.0092     | ND        | ND         | 257.9930     | 23.1365   | 0.1018     | 60.9234    |
| 19                                | 8223      | 9/8/2008    | ND         | 0.0517       | ND         | 251.8711   | 842.8203   | ND         | ND          | 0.0015     | 0.0076     | ND        | ND         | 152.6560     | 21.6713   | 0.0454     | 77.4487    |
| 20                                | 8224      | 9/8/2008    | ND         | 0.0426       | ND         | 157.0526   | 245.9532   | ND         | ND          | 0.0015     | 0.0106     | ND        | 0.0147     | 160.0430     | 12.7772   | 0.0220     | 36.4991    |
| 21                                | 8225      | 9/8/2008    | ND         | 0.0458       | ND         | 136.6866   | 308.1497   | ND         | ND          | 0.0013     | 0.0105     | ND        | ND         | 164.0500     | 16.5633   | 0.0263     | 35.4067    |
| 22                                | 8226      | 9/8/2008    | ND         | 0.0450       | ND         | 152.3163   | 296.7106   | ND         | ND          | 0.0015     | 0.0136     | ND        | ND         | 166.3830     | 14.9950   | 0.0234     | 35.8675    |
| 23                                | 8227      | 9/16/2008   | ND         | 0.0898       | ND         | 165.5909   | 749.9665   | ND         | ND          | 0.0008     | 0.0178     | ND        | ND         | 261.3580     | 15.6377   | 0.1039     | 66.5847    |
| 24                                | 8228      | 9/11/2008   | ND         | 0.1133       | ND         | 224.4969   | 639.2061   | ND         | ND          | 0.0005     | 0.0269     | ND        | ND         | 297.5830     | 15.5228   | 0.0838     | 81.2331    |
| 25                                | 8229      | 9/16/2008   | ND         | 0.1044       | ND         | 83.7637    | 445.6616   | ND         | ND          | 0.0011     | 0.0167     | ND        | ND         | 295.6090     | 9.4739    | 0.0712     | 34.4707    |
| 26                                | 8230      | 9/16/2008   | ND         | 0.1004       | ND         | 86.4254    | 441.4494   | ND         | ND          | 0.0011     | 0.0809     | ND        | ND         | 284.8530     | 9.4795    | 0.0687     | 34.7385    |
| 27                                | 8231      | 9/16/2008   | ND         | 0.1309       | ND         | 55.3817    | 232.5582   | ND         | ND          | ND         | 0.0063     | ND        | 0.0261     | 263.7280     | 25.2712   | 0.1071     | 39.7586    |
| 28                                | 8232      | 9/16/2008   | ND         | 0.0706       | ND         | 50.9738    | 118.2535   | ND         | ND          | ND         | 0.0113     | ND        | 0.0125     | 265.0770     | 6.6515    | 0.0405     | 25.4177    |
| 29                                | 8233      | 9/11/2008   | ND         | 0.1226       | ND         | 158.1888   | 696.6468   | ND         | ND          | 0.0010     | 0.0102     | ND        | ND         | 330.3630     | 17.8448   | 0.0964     | 77.6529    |
| 30                                | 8234      | 9/16/2008   | ND         | 0.2095       | ND         | 87.6195    | 337.1509   | ND         | ND          | ND         | 0.0118     | ND        | ND         | 239.0030     | 9.5010    | 0.1189     | 38.2783    |
| 31                                | 8235      | 9/16/2008   | ND         | 0.0940       | ND         | 80.5253    | 244.5884   | ND         | ND          | ND         | 0.0192     | ND        | ND         | 259.6040     | 11.6509   | 0.0974     | 68.7296    |
| 32                                | 8236      | 9/11/2008   | ND         | 0.4659       | ND         | 176.1435   | 2553.3120  | ND         | ND          | 0.0007     | 0.0279     | ND        | ND         | 210.5980     | 84.6560   | 0.6563     | 98.2204    |
| 33                                | 8237      | 9/11/2008   | ND         | 0.2062       | ND         | 107.1652   | 1153.5310  | ND         | 6.9054      | ND         | 0.0135     | ND        | ND         | 183.5460     | 34.9799   | 0.2512     | 54.5106    |
| 34                                | 8238      | 9/11/2008   | ND         | 0.2876       | ND         | 85.5307    | 1582.2970  | ND         | 32.7706     | ND         | 0.0084     | ND        | ND         | 93.7890      | 53.9940   | 0.4234     | 58.8877    |
| 35                                | 8239      | 9/11/2008   | ND         | 0.1614       | ND         | 110.9728   | 1471.3770  | ND         | ND          | ND         | 0.0085     | ND        | ND         | 206.0640     | 29.4826   | 0.2078     | 64.2992    |
| 36                                | 8240      | 9/16/2008   | ND         | 0.0837       | ND         | 165.2973   | 579.9826   | 0.0006     | ND          | 0.0009     | 0.0129     | ND        | ND         | 243.0530     | 17.5860   | 0.0962     | 62.8611    |
| 37                                | 8241      | 9/16/2008   | ND         | 0.0893       | ND         | 145.3012   | 554.5983   | ND         | ND          | 0.0018     | 0.0115     | ND        | ND         | 287.1680     | 16.3073   | 0.0962     | 57.0930    |
| 38                                | 8242      | 9/16/2008   | ND         | 0.0486       | ND         | 127.9208   | 576.6762   | ND         | ND          | ND         | 0.0205     | ND        | ND         | 201.7600     | 4.9622    | 0.0433     | 60.0282    |
| 39                                | 8243      | 9/16/2008   | ND         | 0.0601       | ND         | 105.1137   | 413.8929   | ND         | ND          | 0.0008     | 0.0130     | ND        | ND         | 215.7260     | 5.5763    | 0.0486     | 47.4516    |
| 40                                | 8244      | 9/16/2008   | ND         | 0.0454       | ND         | 74.5773    | 282.7247   | ND         | ND          | 0.0006     | 0.0141     | ND        | ND         | 213.8200     | 4.3337    | 0.0478     | 34.6345    |
| 41                                | 8245      | 9/11/2008   | ND         | 0.0771       | ND         | 69.3924    | 980.2913   | ND         | ND          | 0.0008     | 0.0131     | ND        | ND         | 236.0100     | 7.9452    | 0.1312     | 28.1639    |
| Test Count that Exceeded Standard |           |             | 0          | 0            | 0          | 0          | 36         | 0          | 0           | 0          | 0          | 0         | 0          | 41           | 0         | 0          | 0          |
| ND - Not Detected                 |           |             |            |              |            |            |            |            |             |            |            |           |            |              |           |            |            |



| Irrigation Standards Continues     |           |             | .2         | .01        | 70:230     | .2         | 5          | 10000       | 3:9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8205      | 9/8/2008    | 0.0009     | ND         | 7.1909     | ND         | ND         | ND          | 0.4000       | ND         | 114.0000    | ND        | 0.0115     |
| 2                                  | 8206      | 9/8/2008    | 0.0008     | 0.0023     | 12.7826    | ND         | ND         | ND          | 0.7000       | ND         | 127.0000    | ND        | 0.0055     |
| 3                                  | 8207      | 9/8/2008    | ND         | 0.0006     | 18.4310    | ND         | ND         | ND          | 0.5000       | ND         | 360.0000    | ND        | 0.0104     |
| 4                                  | 8208      | 9/8/2008    | 0.0025     | 0.0005     | 39.7368    | ND         | ND         | ND          | 1.0000       | ND         | 493.0000    | 0.0025    | 0.5916     |
| 5                                  | 8209      | 9/8/2008    | 0.0005     | 0.0021     | 247.6393   | ND         | ND         | ND          | 5.8000       | ND         | 1189.0000   | 0.0030    | 0.0059     |
| 6                                  | 8210      | 9/8/2008    | 0.0033     | 0.0025     | 220.5178   | ND         | ND         | ND          | 5.8000       | ND         | 971.0000    | 0.0027    | 0.0023     |
| 7                                  | 8211      | 9/8/2008    | 0.0005     | 0.0021     | 244.2169   | ND         | ND         | ND          | 5.7000       | ND         | 1217.0000   | 0.0031    | 0.0077     |
| 8                                  | 8212      | 9/8/2008    | ND         | 0.0007     | 149.3273   | ND         | ND         | ND          | 2.3000       | ND         | 1256.0000   | 0.0025    | 0.0079     |
| 9                                  | 8213      | 9/8/2008    | ND         | 0.0012     | 47.4838    | ND         | ND         | ND          | 1.2000       | ND         | 507.0000    | 0.0034    | 0.0056     |
| 10                                 | 8214      | 9/8/2008    | ND         | 0.0006     | 59.5788    | ND         | ND         | ND          | 1.1000       | ND         | 702.0000    | 0.0027    | 0.0052     |
| 11                                 | 8215      | 9/8/2008    | 0.0034     | 0.0016     | 52.1547    | ND         | ND         | ND          | 1.4000       | ND         | 449.0000    | 0.0033    | ND         |
| 12                                 | 8216      | 9/8/2008    | 0.0004     | 0.0005     | 42.2414    | ND         | ND         | ND          | 1.1000       | ND         | 375.0000    | ND        | 0.0034     |
| 13                                 | 8217      | 9/8/2008    | 0.0028     | 0.0018     | 33.3356    | ND         | ND         | ND          | 1.0000       | ND         | 336.0000    | 0.0031    | 0.0057     |
| 14                                 | 8218      | 9/8/2008    | 0.0004     | 0.0011     | 26.2048    | ND         | ND         | ND          | 0.8000       | ND         | 339.0000    | 0.0034    | 0.0073     |
| 15                                 | 8219      | 9/8/2008    | 0.0003     | 0.0007     | 16.4913    | ND         | ND         | ND          | 0.5000       | ND         | 279.0000    | 0.0028    | 0.0037     |
| 16                                 | 8220      | 9/8/2008    | 0.0041     | 0.0005     | 182.9258   | ND         | ND         | ND          | 2.5000       | ND         | 1588.0000   | 0.0038    | 0.0026     |
| 17                                 | 8221      | 9/8/2008    | ND         | 0.0009     | 299.5461   | ND         | ND         | ND          | 4.6000       | 0.0043     | 1936.0000   | 0.0054    | 0.0032     |
| 18                                 | 8222      | 9/8/2008    | ND         | 0.0011     | 347.8236   | ND         | ND         | ND          | 5.7000       | ND         | 1934.0000   | 0.0056    | 0.0026     |
| 19                                 | 8223      | 9/8/2008    | ND         | 0.0005     | 142.2493   | ND         | ND         | ND          | 2.0000       | ND         | 1573.0000   | 0.0035    | 0.0054     |
| 20                                 | 8224      | 9/8/2008    | ND         | 0.0006     | 49.5136    | ND         | ND         | ND          | 0.9000       | ND         | 664.0000    | 0.0030    | 0.0075     |
| 21                                 | 8225      | 9/8/2008    | ND         | 0.0007     | 56.6094    | ND         | ND         | ND          | 1.1000       | ND         | 730.0000    | 0.0032    | 0.0050     |
| 22                                 | 8226      | 9/8/2008    | ND         | 0.0007     | 50.5863    | ND         | ND         | ND          | 1.0000       | ND         | 725.0000    | 0.0022    | 0.0069     |
| 23                                 | 8227      | 9/16/2008   | 0.0003     | ND         | 268.8997   | 0.0013     | ND         | ND          | 4.5000       | 0.0148     | 1573.0000   | ND        | 0.0177     |
| 24                                 | 8228      | 9/11/2008   | 0.0003     | 0.0008     | 282.0060   | 0.0013     | ND         | ND          | 4.1000       | 0.0105     | 1691.0000   | 0.0034    | 0.0399     |
| 25                                 | 8229      | 9/16/2008   | 0.0004     | 0.0021     | 212.0006   | 0.0009     | ND         | ND          | 4.9000       | ND         | 1024.0000   | 0.0033    | 0.0225     |
| 26                                 | 8230      | 9/16/2008   | 0.0004     | 0.0020     | 215.1495   | 0.0014     | ND         | ND          | 4.9000       | ND         | 1038.0000   | 0.0033    | 0.0482     |
| 27                                 | 8231      | 9/16/2008   | 0.0190     | ND         | 113.2183   | ND         | ND         | ND          | 2.8000       | ND         | 663.0000    | ND        | 0.0153     |
| 28                                 | 8232      | 9/16/2008   | 0.0015     | 0.0015     | 91.4592    | ND         | ND         | ND          | 2.6000       | ND         | 471.0000    | 0.0027    | 0.0131     |
| 29                                 | 8233      | 9/11/2008   | 0.0038     | 0.0024     | 335.8707   | 0.0010     | ND         | ND          | 5.5000       | 0.0059     | 1803.0000   | 0.0047    | 0.0178     |
| 30                                 | 8234      | 9/16/2008   | 0.0128     | 0.0050     | 349.1927   | 0.0014     | ND         | ND          | 7.8000       | 0.0118     | 1420.0000   | 0.0051    | 0.1702     |
| 31                                 | 8235      | 9/16/2008   | 0.0018     | ND         | 143.3329   | ND         | ND         | ND          | 2.8000       | ND         | 816.0000    | 0.0056    | 0.1205     |
| 32                                 | 8236      | 9/11/2008   | 0.0055     | 0.0042     | 1905.1240  | 0.0019     | ND         | ND          | 28.5000      | ND         | 4949.0000   | 0.0031    | 0.0395     |
| 33                                 | 8237      | 9/11/2008   | 0.0095     | 0.0019     | 555.4499   | 0.0011     | ND         | ND          | 10.9000      | ND         | 2113.0000   | 0.0041    | 0.0118     |
| 34                                 | 8238      | 9/11/2008   | 0.0025     | 0.0021     | 788.4752   | 0.0010     | ND         | ND          | 16.1000      | ND         | 2788.0000   | 0.0021    | 0.0101     |
| 35                                 | 8239      | 9/11/2008   | 0.0139     | 0.0012     | 701.4769   | 0.0010     | ND         | ND          | 13.1000      | ND         | 2627.0000   | 0.0050    | 0.0120     |
| 36                                 | 8240      | 9/16/2008   | ND         | 0.0006     | 250.3615   | 0.0010     | ND         | ND          | 4.2000       | 0.0115     | 1344.0000   | 0.0030    | 0.0152     |
| 37                                 | 8241      | 9/16/2008   | 0.0003     | 0.0007     | 290.5478   | 0.0011     | ND         | ND          | 5.2000       | 0.0044     | 1328.0000   | 0.0040    | 0.0138     |
| 38                                 | 8242      | 9/16/2008   | 0.0008     | ND         | 156.6069   | 0.0011     | ND         | ND          | 2.9000       | 0.0056     | 1124.0000   | ND        | 0.0166     |
| 39                                 | 8243      | 9/16/2008   | ND         | ND         | 164.4616   | 0.0009     | ND         | ND          | 3.3000       | 0.0043     | 898.0000    | ND        | 0.0141     |
| 40                                 | 8244      | 9/16/2008   | 0.0003     | 0.0005     | 161.7382   | 0.0007     | ND         | ND          | 3.9000       | ND         | 703.0000    | ND        | 0.0139     |
| 41                                 | 8245      | 9/11/2008   | ND         | 0.0007     | 474.3773   | 0.0009     | ND         | ND          | 12.1000      | ND         | 1742.0000   | 0.0020    | 0.0135     |
| Test Count that Exceeded Standard: |           |             | 0          | 0          | 27         | 0          | 0          | 0           | 20           | 0          | 39          | 0         | 0          |

ND - Not Detected

**Livestock:**

## Livestock Standards

| Livestock Standards |           |             | 5<br>Al<br>mg/L | 0.2<br>As<br>mg/L | 5<br>B<br>mg/L | 1<br>Be<br>mg/L | 0.05<br>Cd<br>mg/L | 1<br>Co<br>mg/L | 1<br>Cr<br>mg/L | 5<br>Cu<br>mg/L | 2<br>F<br>mg/L | 10<br>Hg<br>ug/L | 440<br>NO3<br>mg/L | 1<br>Pb<br>mg/L | 5.5-8.3<br>pH<br>- | 0.05<br>Se<br>mg/L | 167;333<br>SO4<br>mg/L | 1000;3000;<br>TDS<br>mg/L | 25<br>Zn<br>mg/L |
|---------------------|-----------|-------------|-----------------|-------------------|----------------|-----------------|--------------------|-----------------|-----------------|-----------------|----------------|------------------|--------------------|-----------------|--------------------|--------------------|------------------------|---------------------------|------------------|
|                     | Sample No | Tested Date |                 |                   |                |                 |                    |                 |                 |                 |                |                  |                    |                 |                    |                    |                        |                           |                  |
| 1                   | 8205      | 9/8/2008    | ND              | ND                | 0.0184         | ND              | ND                 | ND              | ND              | 0.0163          | ND             | ND               | ND                 | ND              | 7.5500             | ND                 | 12.7987                | 114.0000                  | 0.0115           |
| 2                   | 8206      | 9/8/2008    | ND              | ND                | 0.0182         | ND              | ND                 | ND              | ND              | 0.0156          | ND             | ND               | ND                 | ND              | 6.7400             | ND                 | 17.0110                | 127.0000                  | 0.0055           |
| 3                   | 8207      | 9/8/2008    | ND              | ND                | 0.0327         | ND              | ND                 | ND              | ND              | 0.0265          | ND             | ND               | ND                 | ND              | 7.6400             | ND                 | 86.9218                | 360.0000                  | 0.0104           |
| 4                   | 8208      | 9/8/2008    | ND              | 0.0023            | 0.0781         | ND              | ND                 | ND              | 0.0007          | 0.0076          | ND             | ND               | 11.9959            | ND              | 7.4500             | ND                 | 23.9149                | 493.0000                  | 0.5916           |
| 5                   | 8209      | 9/8/2008    | ND              | 0.0035            | 0.2001         | ND              | ND                 | 0.0018          | 0.0008          | 0.0087          | ND             | ND               | ND                 | ND              | 7.8000             | ND                 | 98.6264                | 1189.0000                 | 0.0059           |
| 6                   | 8210      | 9/8/2008    | ND              | 0.0031            | 0.1791         | ND              | ND                 | 0.0010          | ND              | 0.0081          | ND             | ND               | ND                 | ND              | 7.8400             | ND                 | 88.9295                | 971.0000                  | 0.0023           |
| 7                   | 8211      | 9/8/2008    | ND              | 0.0033            | 0.2191         | ND              | ND                 | ND              | 0.0007          | 0.0078          | ND             | ND               | ND                 | ND              | 7.7200             | ND                 | 104.4158               | 1217.0000                 | 0.0077           |
| 8                   | 8212      | 9/8/2008    | ND              | 0.0032            | 0.0943         | ND              | ND                 | ND              | 0.0008          | 0.0189          | ND             | ND               | ND                 | ND              | 7.6100             | ND                 | 78.0539                | 1256.0000                 | 0.0079           |
| 9                   | 8213      | 9/8/2008    | ND              | 0.0044            | 0.0575         | ND              | ND                 | 0.0030          | 0.0013          | 0.0109          | ND             | ND               | ND                 | ND              | 7.7700             | ND                 | 30.9296                | 507.0000                  | 0.0056           |
| 10                  | 8214      | 9/8/2008    | ND              | 0.0022            | 0.0563         | ND              | ND                 | ND              | 0.0011          | 0.0111          | ND             | ND               | ND                 | ND              | 7.7500             | ND                 | 46.8729                | 702.0000                  | 0.0052           |
| 11                  | 8215      | 9/8/2008    | ND              | 0.0042            | 0.0585         | ND              | ND                 | ND              | 0.0011          | 0.0054          | ND             | ND               | ND                 | ND              | 7.8800             | ND                 | 34.3134                | 449.0000                  | ND               |
| 12                  | 8216      | 9/8/2008    | ND              | ND                | 0.0458         | ND              | ND                 | ND              | 0.0010          | 0.0158          | ND             | ND               | ND                 | ND              | 7.9300             | ND                 | 30.1168                | 375.0000                  | 0.0034           |
| 13                  | 8217      | 9/8/2008    | ND              | 0.0052            | 0.0518         | ND              | ND                 | ND              | 0.0014          | 0.0083          | ND             | ND               | ND                 | ND              | 7.8700             | ND                 | 25.6507                | 336.0000                  | 0.0057           |
| 14                  | 8218      | 9/8/2008    | ND              | 0.0043            | 0.0342         | ND              | ND                 | ND              | 0.0014          | 0.0208          | ND             | ND               | ND                 | ND              | 7.8500             | ND                 | 30.6272                | 339.0000                  | 0.0073           |
| 15                  | 8219      | 9/8/2008    | ND              | 0.0024            | 0.0298         | ND              | ND                 | ND              | 0.0014          | 0.0072          | ND             | ND               | ND                 | ND              | 7.8500             | ND                 | 21.1539                | 279.0000                  | 0.0037           |
| 16                  | 8220      | 9/8/2008    | ND              | 0.0031            | 0.1031         | ND              | ND                 | 0.0008          | 0.0007          | 0.0074          | ND             | ND               | ND                 | ND              | 7.6700             | ND                 | 129.7696               | 1588.0000                 | 0.0026           |
| 17                  | 8221      | 9/8/2008    | ND              | 0.0036            | 0.1034         | ND              | ND                 | ND              | 0.0015          | 0.0058          | ND             | ND               | 16.8832            | ND              | 7.6600             | 0.0043             | 190.8289               | 1936.0000                 | 0.0032           |
| 18                  | 8222      | 9/8/2008    | ND              | 0.0041            | 0.1149         | ND              | ND                 | ND              | 0.0010          | 0.0092          | ND             | ND               | ND                 | ND              | 7.7200             | ND                 | 203.7566               | 1934.0000                 | 0.0026           |
| 19                  | 8223      | 9/8/2008    | ND              | 0.0025            | 0.0517         | ND              | ND                 | ND              | 0.0015          | 0.0076          | ND             | ND               | 27.4163            | ND              | 7.6500             | ND                 | 102.8974               | 1573.0000                 | 0.0054           |
| 20                  | 8224      | 9/8/2008    | ND              | 0.0020            | 0.0426         | ND              | ND                 | ND              | 0.0015          | 0.0106          | ND             | ND               | ND                 | ND              | 7.8600             | ND                 | 44.4236                | 664.0000                  | 0.0075           |
| 21                  | 8225      | 9/8/2008    | ND              | 0.0024            | 0.0458         | ND              | ND                 | ND              | 0.0013          | 0.0105          | ND             | ND               | ND                 | ND              | 7.7400             | ND                 | 54.4680                | 730.0000                  | 0                |

ND - Not Detected



**Culinary:**

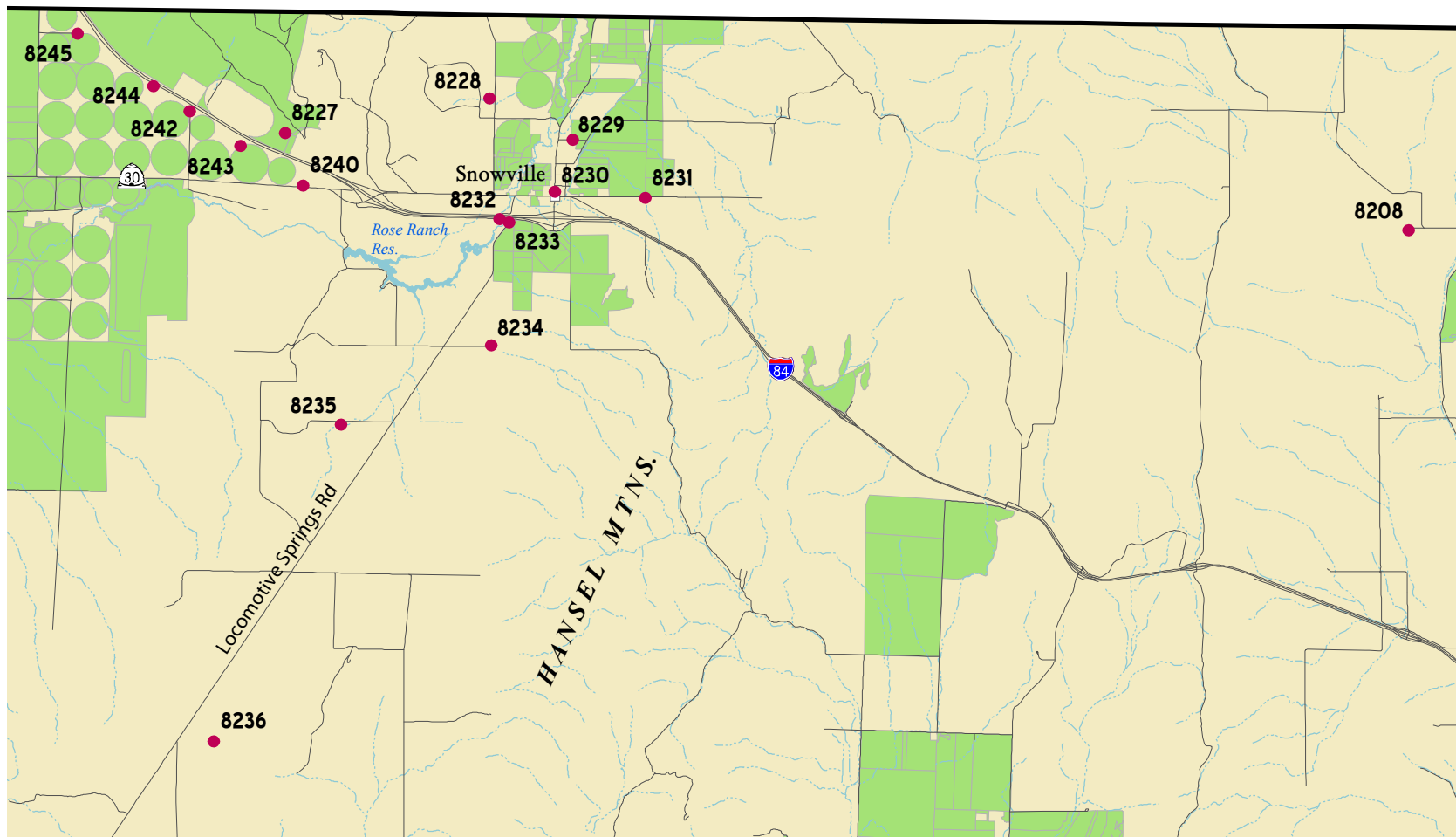
| Drinking Water Primary Standards  |           |             | 0.01       | 2          | 0.004      | 0.005      | 25           | 0.1        | 1.3        | 4         | 2          | 10000      | 1000       | 44.3        | .015       | .05        | 500         | 2000        |
|-----------------------------------|-----------|-------------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|
|                                   | Sample No | Tested Date | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |
| 1                                 | 8205      | 9/8/2008    | ND         | 0.0277     | ND         | ND         | ND           | ND         | 0.0163     | ND        | ND         | 7.1909     | ND         | ND          | ND         | ND         | 12.7987     | 114.0000    |
| 2                                 | 8206      | 9/8/2008    | ND         | 0.0409     | ND         | ND         | ND           | ND         | 0.0156     | ND        | ND         | 12.7826    | ND         | ND          | ND         | ND         | 17.0110     | 127.0000    |
| 3                                 | 8207      | 9/8/2008    | ND         | 0.0281     | ND         | ND         | ND           | ND         | 0.0265     | ND        | ND         | 18.4310    | ND         | ND          | ND         | ND         | 86.9218     | 360.0000    |
| 4                                 | 8208      | 9/8/2008    | 0.0023     | 0.2434     | ND         | ND         | ND           | 0.0007     | 0.0076     | ND        | ND         | 39.7368    | ND         | 11.9959     | ND         | ND         | 23.9149     | 493.0000    |
| 5                                 | 8209      | 9/8/2008    | 0.0035     | 0.1880     | ND         | ND         | ND           | 0.0008     | 0.0087     | ND        | ND         | 247.6393   | ND         | ND          | ND         | ND         | 98.6264     | 1189.0000   |
| 6                                 | 8210      | 9/8/2008    | 0.0031     | 0.1459     | ND         | ND         | ND           | ND         | 0.0081     | ND        | ND         | 220.5178   | ND         | ND          | ND         | ND         | 88.9295     | 971.0000    |
| 7                                 | 8211      | 9/8/2008    | 0.0033     | 0.1930     | ND         | ND         | ND           | 0.0007     | 0.0078     | ND        | ND         | 244.2169   | ND         | ND          | ND         | ND         | 104.4158    | 1217.0000   |
| 8                                 | 8212      | 9/8/2008    | 0.0032     | 0.3455     | ND         | ND         | ND           | 0.0008     | 0.0189     | ND        | ND         | 149.3273   | ND         | ND          | ND         | ND         | 78.0539     | 1256.0000   |
| 9                                 | 8213      | 9/8/2008    | 0.0044     | 0.1405     | ND         | ND         | ND           | 0.0013     | 0.0109     | ND        | ND         | 47.4838    | ND         | ND          | ND         | ND         | 30.9296     | 507.0000    |
| 10                                | 8214      | 9/8/2008    | 0.0022     | 0.2590     | ND         | ND         | ND           | 0.0011     | 0.0111     | ND        | ND         | 59.5788    | ND         | ND          | ND         | ND         | 46.8729     | 702.0000    |
| 11                                | 8215      | 9/8/2008    | 0.0042     | 0.1037     | ND         | ND         | ND           | 0.0011     | 0.0054     | ND        | ND         | 52.1547    | ND         | ND          | ND         | ND         | 34.3134     | 449.0000    |
| 12                                | 8216      | 9/8/2008    | ND         | 0.0947     | ND         | ND         | ND           | 0.0010     | 0.0158     | ND        | ND         | 42.2414    | ND         | ND          | ND         | ND         | 30.1168     | 375.0000    |
| 13                                | 8217      | 9/8/2008    | 0.0052     | 0.1383     | ND         | ND         | ND           | 0.0014     | 0.0083     | ND        | ND         | 33.3356    | ND         | ND          | ND         | ND         | 25.6507     | 336.0000    |
| 14                                | 8218      | 9/8/2008    | 0.0043     | 0.0953     | ND         | ND         | ND           | 0.0014     | 0.0208     | ND        | ND         | 26.2048    | ND         | ND          | ND         | ND         | 30.6272     | 339.0000    |
| 15                                | 8219      | 9/8/2008    | 0.0024     | 0.1257     | ND         | ND         | ND           | 0.0014     | 0.0072     | ND        | ND         | 16.4913    | ND         | ND          | ND         | ND         | 21.1539     | 279.0000    |
| 16                                | 8220      | 9/8/2008    | 0.0031     | 0.1617     | ND         | ND         | ND           | 0.0007     | 0.0074     | ND        | ND         | 182.9258   | ND         | ND          | ND         | ND         | 129.7696    | 1588.0000   |
| 17                                | 8221      | 9/8/2008    | 0.0036     | 0.1533     | ND         | ND         | ND           | 0.0015     | 0.0058     | ND        | ND         | 299.5461   | ND         | 16.8832     | ND         | 0.0043     | 190.8289    | 1936.0000   |
| 18                                | 8222      | 9/8/2008    | 0.0041     | 0.1215     | ND         | ND         | ND           | 0.0010     | 0.0092     | ND        | ND         | 347.8236   | ND         | ND          | ND         | ND         | 203.7566    | 1934.0000   |
| 19                                | 8223      | 9/8/2008    | 0.0025     | 0.3075     | ND         | ND         | ND           | 0.0015     | 0.0076     | ND        | ND         | 142.2493   | ND         | 27.4163     | ND         | ND         | 102.8974    | 1573.0000   |
| 20                                | 8224      | 9/8/2008    | 0.0020     | 0.2465     | ND         | ND         | ND           | 0.0015     | 0.0106     | ND        | ND         | 49.5136    | ND         | ND          | ND         | ND         | 44.4236     | 664.0000    |
| 21                                | 8225      | 9/8/2008    | 0.0024     | 0.2089     | ND         | ND         | ND           | 0.0013     | 0.0105     | ND        | ND         | 56.6094    | ND         | ND          | ND         | ND         | 54.4680     | 730.0000    |
| 22                                | 8226      | 9/8/2008    | 0.0021     | 0.2896     | ND         | ND         | ND           | 0.0015     | 0.0136     | ND        | ND         | 50.5863    | ND         | ND          | ND         | ND         | 53.2824     | 725.0000    |
| 23                                | 8227      | 9/16/2008   | 0.0062     | 0.1665     | ND         | ND         | ND           | 0.0008     | 0.0178     | ND        | ND         | 268.8997   | 0.0013     | 12.1522     | ND         | 0.0148     | 155.0897    | 1573.0000   |
| 24                                | 8228      | 9/11/2008   | 0.0056     | 0.0376     | ND         | ND         | ND           | 0.0005     | 0.0269     | ND        | ND         | 282.0060   | 0.0013     | ND          | ND         | 0.0105     | 276.5190    | 1691.0000   |
| 25                                | 8229      | 9/16/2008   | 0.0044     | 0.1047     | ND         | ND         | ND           | 0.0011     | 0.0167     | ND        | ND         | 212.0006   | 0.0009     | ND          | ND         | ND         | 72.0869     | 1024.0000   |
| 26                                | 8230      | 9/16/2008   | 0.0042     | 0.1173     | ND         | ND         | ND           | 0.0011     | 0.0809     | ND        | ND         | 215.1495   | 0.0014     | ND          | ND         | ND         | 89.9750     | 1038.0000   |
| 27                                | 8231      | 9/16/2008   | ND         | 0.1698     | ND         | ND         | ND           | ND         | 0.0063     | ND        | ND         | 113.2183   | ND         | ND          | ND         | ND         | 31.4977     | 663.0000    |
| 28                                | 8232      | 9/16/2008   | 0.0045     | 0.0697     | ND         | ND         | ND           | ND         | 0.0113     | ND        | ND         | 91.4592    | ND         | ND          | ND         | ND         | 42.1579     | 471.0000    |
| 29                                | 8233      | 9/11/2008   | 0.0092     | 0.0527     | ND         | ND         | ND           | 0.0010     | 0.0102     | ND        | ND         | 335.8707   | 0.0010     | ND          | ND         | 0.0059     | 325.4756    | 1803.0000   |
| 30                                | 8234      | 9/16/2008   | 0.0091     | 0.0745     | ND         | ND         | ND           | ND         | 0.0118     | ND        | ND         | 349.1927   | 0.0014     | ND          | ND         | 0.0118     | 458.6841    | 1420.0000   |
| 31                                | 8235      | 9/16/2008   | 0.0025     | 0.0653     | ND         | ND         | ND           | ND         | 0.0192     | ND        | ND         | 143.3329   | ND         | ND          | ND         | ND         | 113.1178    | 816.0000    |
| 32                                | 8236      | 9/11/2008   | 0.0041     | 0.0695     | ND         | ND         | ND           | 0.0007     | 0.0279     | ND        | ND         | 1905.1240  | 0.0019     | ND          | ND         | ND         | ND          | 4949.0000   |
| 33                                | 8237      | 9/11/2008   | 0.0055     | 0.1196     | ND         | ND         | ND           | ND         | 0.0135     | ND        | ND         | 555.4499   | 0.0011     | ND          | ND         | ND         | 98.7861     | 2113.0000   |
| 34                                | 8238      | 9/11/2008   | 0.0061     | 0.0708     | ND         | ND         | ND           | ND         | 0.0084     | ND        | ND         | 788.4752   | 0.0010     | ND          | ND         | ND         | 129.2998    | 2788.0000   |
| 35                                | 8239      | 9/11/2008   | 0.0039     | 0.0646     | ND         | ND         | ND           | ND         | 0.0085     | ND        | ND         | 701.4769   | 0.0010     | ND          | ND         | ND         | 129.2367    | 2627.0000   |
| 36                                | 8240      | 9/16/2008   | 0.0061     | 0.1237     | ND         | ND         | ND           | 0.0009     | 0.0129     | ND        | ND         | 250.3615   | 0.0010     | ND          | ND         | 0.0115     | 117.7543    | 1344.0000   |
| 37                                | 8241      | 9/16/2008   | 0.0032     | 0.0579     | ND         | ND         | ND           | 0.0018     | 0.0115     | ND        | ND         | 290.5478   | 0.0011     | ND          | ND         | 0.0044     | 96.3854     | 1328.0000   |
| 38                                | 8242      | 9/16/2008   | ND         | 0.1979     | ND         | ND         | ND           | ND         | 0.0205     | ND        | ND         | 156.6069   | 0.0011     | ND          | ND         | 0.0056     | 79.8984     | 1124.0000   |
| 39                                | 8243      | 9/16/2008   | 0.0023     | 0.1902     | ND         | ND         | ND           | 0.0008     | 0.0130     | ND        | ND         | 164.4616   | 0.0009     | ND          | ND         | 0.0043     | 37.5716     | 898.0000    |
| 40                                | 8244      | 9/16/2008   | 0.0020     | 0.1093     | ND         | ND         | ND           | 0.0006     | 0.0141     | ND        | ND         | 161.7382   | 0.0007     | ND          | ND         | ND         | 26.0714     | 703.0000    |
| 41                                | 8245      | 9/11/2008   | 0.0041     | 0.0936     | ND         | ND         | ND           | 0.0008     | 0.0131     | ND        | ND         | 474.3773   | 0.0009     | ND          | ND         | ND         | 52.5521     | 1742.0000   |
| Test Count that Exceeded Standard |           |             | 0          | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 4           |
| ND - Not Detected                 |           |             |            |            |            |            |              |            |            |           |            |            |            |             |            |            |             |             |

**Drinking Water Secondary Standards:**

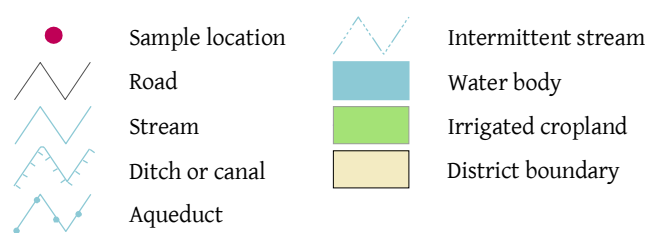
|                                    | Sample No | Tested Date | 0.1<br>Ag<br>mg/L | 0.5<br>Al<br>mg/L | 250<br>Cl<br>mg/L | 1<br>Cu<br>mg/L | 2<br>F<br>mg/L | 0.3<br>Fe<br>mg/L | 60;120;180<br>Hardnes<br>s | .05<br>Mn<br>mg/L | 6.5-8.5<br>pH<br>- | 1000<br>Si<br>mg/L | 250<br>SO4<br>mg/L | 200<br>TDS<br>mg/L | 5<br>Zn<br>mg/L |
|------------------------------------|-----------|-------------|-------------------|-------------------|-------------------|-----------------|----------------|-------------------|----------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-----------------|
| 1                                  | 8205      | 9/8/2008    | ND                | ND                | ND                | 0.0163          | ND             | ND                | 61.0000                    | 0.0009            | 7.5500             | 4.7517             | 12.7987            | 114.0000           | 0.0115          |
| 2                                  | 8206      | 9/8/2008    | ND                | ND                | ND                | 0.0156          | ND             | ND                | 67.8000                    | 0.0008            | 6.7400             | 4.6779             | 17.0110            | 127.0000           | 0.0055          |
| 3                                  | 8207      | 9/8/2008    | ND                | ND                | 19.1488           | 0.0265          | ND             | ND                | 286.4000                   | ND                | 7.6400             | 5.9141             | 86.9218            | 360.0000           | 0.0104          |
| 4                                  | 8208      | 9/8/2008    | ND                | ND                | 172.4812          | 0.0076          | ND             | ND                | 325.3000                   | 0.0025            | 7.4500             | 30.4808            | 23.9149            | 493.0000           | 0.5916          |
| 5                                  | 8209      | 9/8/2008    | ND                | ND                | 569.6926          | 0.0087          | ND             | ND                | 341.1000                   | 0.0005            | 7.8000             | 19.8596            | 98.6264            | 1189.0000          | 0.0059          |
| 6                                  | 8210      | 9/8/2008    | ND                | ND                | 413.4333          | 0.0081          | ND             | ND                | 271.0000                   | 0.0033            | 7.8400             | 20.5852            | 88.9295            | 971.0000           | 0.0023          |
| 7                                  | 8211      | 9/8/2008    | ND                | ND                | 594.6707          | 0.0078          | ND             | ND                | 342.6000                   | 0.0005            | 7.7200             | 19.7794            | 104.4158           | 1217.0000          | 0.0077          |
| 8                                  | 8212      | 9/8/2008    | ND                | ND                | 617.8944          | 0.0189          | ND             | ND                | 793.1000                   | ND                | 7.6100             | 27.4028            | 78.0539            | 1256.0000          | 0.0079          |
| 9                                  | 8213      | 9/8/2008    | ND                | ND                | 179.3163          | 0.0109          | ND             | 0.0198            | 318.8000                   | ND                | 7.7700             | 29.8588            | 30.9296            | 507.0000           | 0.0056          |
| 10                                 | 8214      | 9/8/2008    | ND                | ND                | 283.1068          | 0.0111          | ND             | ND                | 519.9000                   | ND                | 7.7500             | 27.6497            | 46.8729            | 702.0000           | 0.0052          |
| 11                                 | 8215      | 9/8/2008    | ND                | ND                | 136.7195          | 0.0054          | ND             | 0.0261            | 259.6000                   | 0.0034            | 7.8800             | 30.7362            | 34.3134            | 449.0000           | ND              |
| 12                                 | 8216      | 9/8/2008    | ND                | ND                | 92.0455           | 0.0158          | ND             | ND                | 259.1000                   | 0.0004            | 7.9300             | 8.5633             | 30.1168            | 375.0000           | 0.0034          |
| 13                                 | 8217      | 9/8/2008    | ND                | ND                | 74.2690           | 0.0083          | ND             | 0.0188            | 199.8000                   | 0.0028            | 7.8700             | 32.4493            | 25.6507            | 336.0000           | 0.0057          |
| 14                                 | 8218      | 9/8/2008    | ND                | ND                | 68.4183           | 0.0208          | ND             | ND                | 220.3000                   | 0.0004            | 7.8500             | 26.9809            | 30.6272            | 339.0000           | 0.0073          |
| 15                                 | 8219      | 9/8/2008    | ND                | ND                | 39.4162           | 0.0072          | ND             | ND                | 196.9000                   | 0.0003            | 7.8500             | 27.6654            | 21.1539            | 279.0000           | 0.0037          |
| 16                                 | 8220      | 9/8/2008    | ND                | ND                | 780.0516          | 0.0074          | ND             | ND                | 1015.5000                  | 0.0041            | 7.6700             | 25.8113            | 129.7696           | 1588.0000          | 0.0026          |
| 17                                 | 8221      | 9/8/2008    | ND                | ND                | 987.0072          | 0.0058          | ND             | ND                | 807.9000                   | ND                | 7.6600             | 26.6452            | 190.8289           | 1936.0000          | 0.0032          |
| 18                                 | 8222      | 9/8/2008    | ND                | ND                | 951.1794          | 0.0092          | ND             | ND                | 713.4000                   | ND                | 7.7200             | 26.1738            | 203.7566           | 1934.0000          | 0.0026          |
| 19                                 | 8223      | 9/8/2008    | ND                | ND                | 842.8203          | 0.0076          | ND             | ND                | 948.8000                   | ND                | 7.6500             | 31.5112            | 102.8974           | 1573.0000          | 0.0054          |
| 20                                 | 8224      | 9/8/2008    | ND                | ND                | 245.9532          | 0.0106          | ND             | 0.0147            | 543.0000                   | ND                | 7.8600             | 27.4364            | 44.4236            | 664.0000           | 0.0075          |
| 21                                 | 8225      | 9/8/2008    | ND                | ND                | 308.1497          | 0.0105          | ND             | ND                | 487.6000                   | ND                | 7.7400             | 33.0832            | 54.4680            | 730.0000           | 0.0050          |
| 22                                 | 8226      | 9/8/2008    | ND                | ND                | 296.7106          | 0.0136          | ND             | ND                | 528.6000                   | ND                | 7.7700             | 31.0885            | 53.2824            | 725.0000           | 0.0069          |
| 23                                 | 8227      | 9/16/2008   | ND                | ND                | 749.9665          | 0.0178          | ND             | ND                | 688.3000                   | 0.0003            | 7.6100             | 10.3329            | 155.0897           | 1573.0000          | 0.0177          |
| 24                                 | 8228      | 9/11/2008   | ND                | ND                | 639.2061          | 0.0269          | ND             | ND                | 895.9000                   | 0.0003            | 7.2300             | 19.3883            | 276.5190           | 1691.0000          | 0.0399          |
| 25                                 | 8229      | 9/16/2008   | ND                | ND                | 445.6616          | 0.0167          | ND             | ND                | 351.4000                   | 0.0004            | 7.6200             | 16.1691            | 72.0869            | 1024.0000          | 0.0225          |
| 26                                 | 8230      | 9/16/2008   | ND                | ND                | 441.4494          | 0.0809          | ND             | ND                | 359.2000                   | 0.0004            | 7.6100             | 15.4314            | 89.9750            | 1038.0000          | 0.0482          |
| 27                                 | 8231      | 9/16/2008   | ND                | ND                | 232.5582          | 0.0063          | ND             | 0.0261            | 302.3000                   | 0.0190            | 7.8900             | 34.8466            | 31.4977            | 663.0000           | 0.0153          |
| 28                                 | 8232      | 9/16/2008   | ND                | ND                | 118.2535          | 0.0113          | ND             | 0.0125            | 232.2000                   | 0.0015            | 8.0700             | 5.0816             | 42.1579            | 471.0000           | 0.0131          |
| 29                                 | 8233      | 9/11/2008   | ND                | ND                | 696.6468          | 0.0102          | ND             | ND                | 715.4000                   | 0.0038            | 7.5400             | 20.8447            | 325.4756           | 1803.0000          | 0.0178          |
| 30                                 | 8234      | 9/16/2008   | ND                | ND                | 337.1509          | 0.0118          | ND             | ND                | 376.8000                   | 0.0128            | 7.6800             | 10.8256            | 458.6841           | 1420.0000          | 0.1702          |
| 31                                 | 8235      | 9/16/2008   | ND                | ND                | 244.5884          | 0.0192          | ND             | ND                | 484.5000                   | 0.0018            | 7.8000             | 19.6649            | 113.1178           | 816.0000           | 0.1205          |
| 32                                 | 8236      | 9/11/2008   | ND                | ND                | 2553.3120         | 0.0279          | ND             | ND                | 845.0000                   | 0.0055            | 7.6100             | 17.6321            | ND                 | 4949.0000          | 0.0395          |
| 33                                 | 8237      | 9/11/2008   | ND                | ND                | 1153.5310         | 0.0135          | ND             | ND                | 492.5000                   | 0.0095            | 8.3800             | 11.1981            | 98.7861            | 2113.0000          | 0.0118          |
| 34                                 | 8238      | 9/11/2008   | ND                | ND                | 1582.2970         | 0.0084          | ND             | ND                | 456.4000                   | 0.0025            | 8.8100             | 10.7457            | 129.2998           | 2788.0000          | 0.0101          |
| 35                                 | 8239      | 9/11/2008   | ND                | ND                | 1471.3770         | 0.0085          | ND             | ND                | 542.3000                   | 0.0139            | 7.9400             | 13.7137            | 129.2367           | 2627.0000          | 0.0120          |
| 36                                 | 8240      | 9/16/2008   | ND                | ND                | 579.9826          | 0.0129          | ND             | ND                | 672.2000                   | ND                | 7.6400             | 19.9015            | 117.7543           | 1344.0000          | 0.0152          |
| 37                                 | 8241      | 9/16/2008   | ND                | ND                | 554.5983          | 0.0115          | ND             | ND                | 598.5000                   | 0.0003            | 7.8300             | 19.2455            | 96.3854            | 1328.0000          | 0.0138          |
| 38                                 | 8242      | 9/16/2008   | ND                | ND                | 576.6762          | 0.0205          | ND             | ND                | 567.1000                   | 0.0008            | 7.5800             | 8.8512             | 79.8984            | 1124.0000          | 0.0166          |
| 39                                 | 8243      | 9/16/2008   | ND                | ND                | 413.8929          | 0.0130          | ND             | ND                | 458.3000                   | ND                | 7.6800             | 9.0063             | 37.5716            | 898.0000           | 0.0141          |
| 40                                 | 8244      | 9/16/2008   | ND                | ND                | 282.7247          | 0.0141          | ND             | ND                | 329.1000                   | 0.0003            | 7.7600             | 8.5852             | 26.0714            | 703.0000           | 0.0139          |
| 41                                 | 8245      | 9/11/2008   | ND                | ND                | 980.2913          | 0.0131          | ND             | ND                | 289.5000                   | ND                | 7.8000             | 8.2900             | 52.5521            | 1742.0000          | 0.0135          |
| Test Count that Exceeded Standard: |           |             | 0                 | 0                 | 27                | 0               | 0              | 0                 | 41                         | 0                 | 1                  | 0                  | 3                  | 39                 | 0               |

ND - Not Detected

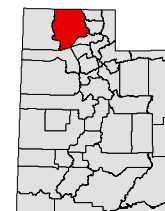
Map 3. Northern Utah District - Snowville Area



Map Scale 1:140,000 (1 inch = 2.2 miles)

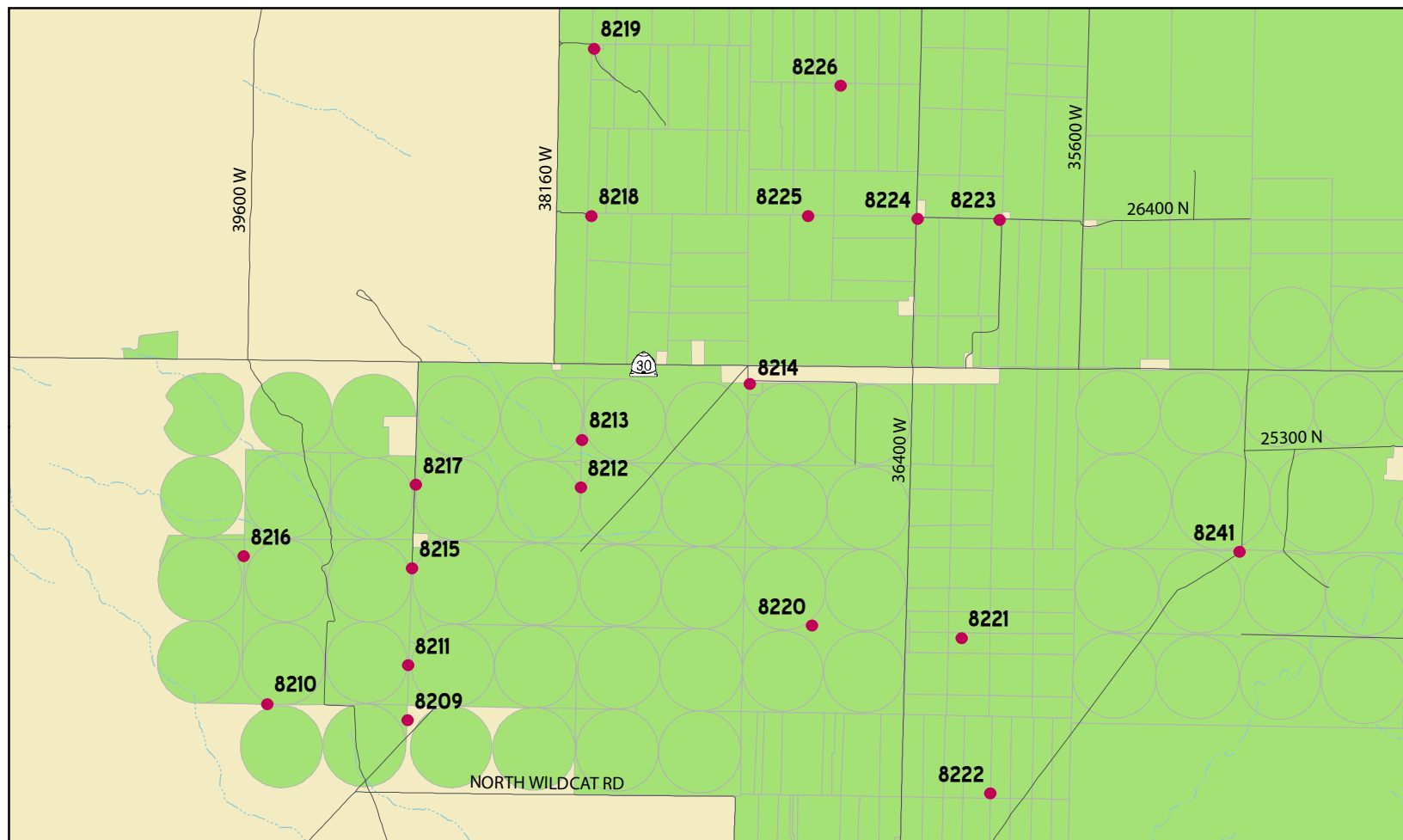


District Location

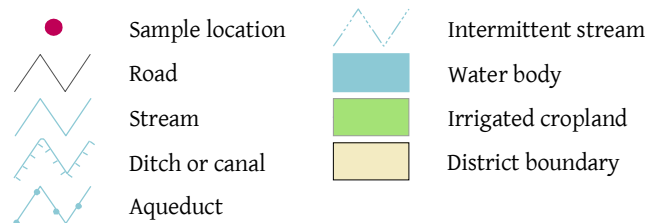




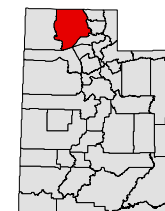
Map 4. Northern Utah District - Snowville West Area



Map Scale 1:63,360 (1 inch = 1 mile)

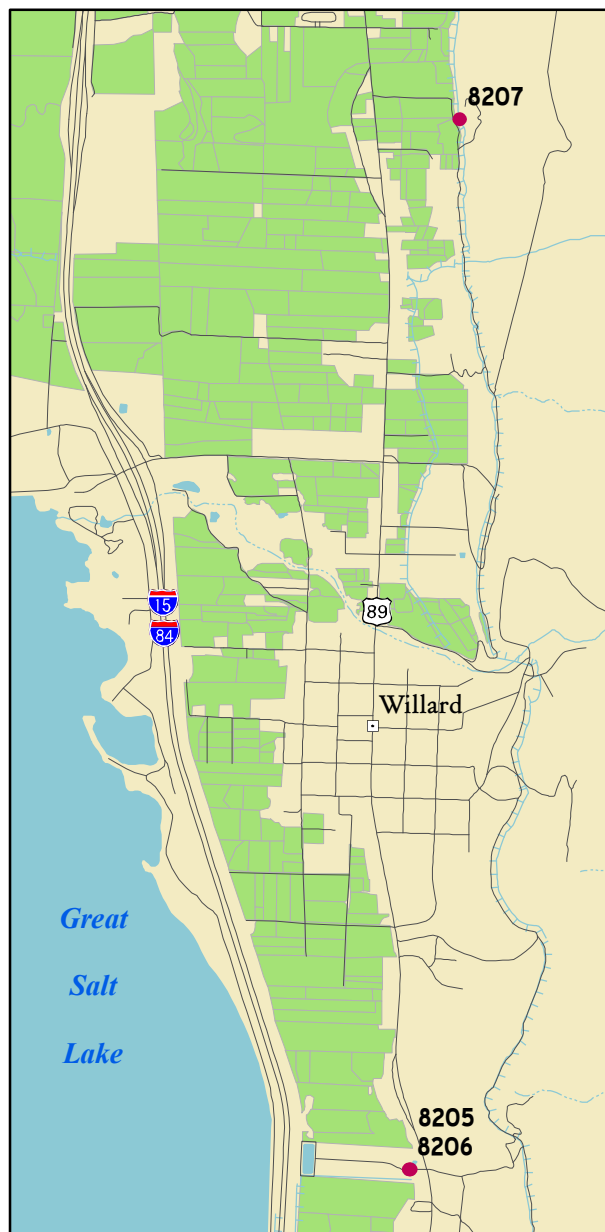


District Location

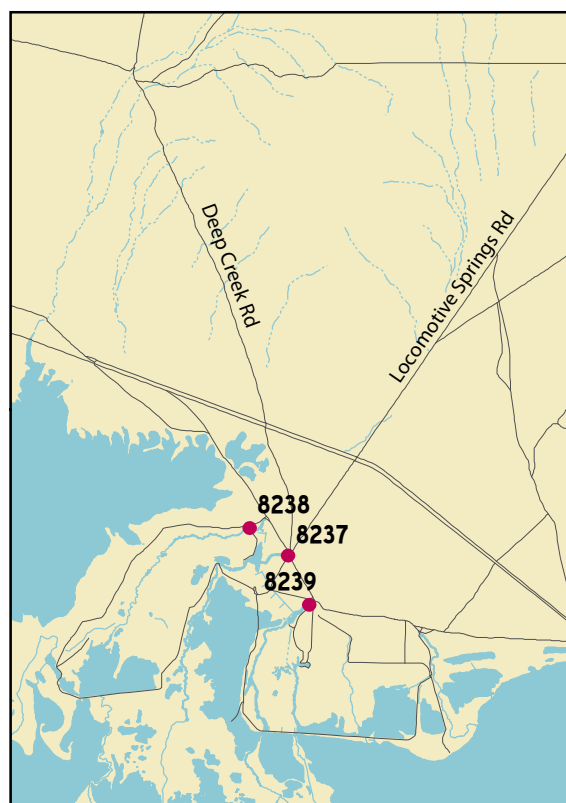




Map 5. Northern Utah District - Other Areas

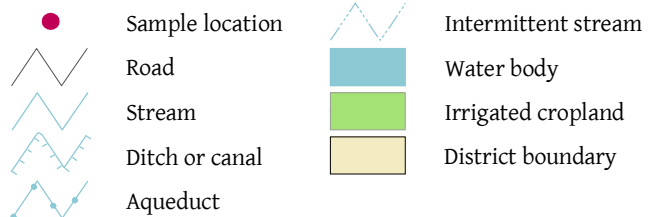
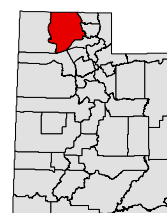


Map Scale 1:43,000 (1 inch = 0.7 miles)



Map Scale 1:146,275 (1 inch = 2.3 miles)

District Location



## **UACD Zone 2 (Davis, Morgan, Grantsville, Salt Lake, Shambip, and Weber counties)**

Thirty (30) sites were sampled in the six (6) Soil Conservation Districts in Zone 2 during the spring, summer, and fall of 2008. These include the number of samples in the following districts: six (6) Davis County, two (2) Grantsville, one (1) Morgan, eighteen (18) Salt Lake, two (2) in Shambip, and one (1) Weber districts.

The Statistical Report below shows a summary of the total number of chemical tests collected (Test Count) for each district in Zone 2. The next four columns summarize the number of tests which exceed the standards for either Primary Drinking Water (DW Primary), Secondary Drinking Water (DW Secondary), Irrigation, or Livestock.

### **Ground Water UACD Zone No 2 Statistical Report For the Samples Collected Between: 1/1/2008 And 11/18/2008**

| District Name       | Sample Count | Test Count  | Test Count Which Result Exceeded Standards |              |            |           |
|---------------------|--------------|-------------|--|--------------|------------|-----------|
|                     |              |             | DW Primary                                 | DW Secondary | Irrigation | Livestock |
| Davis               | 6            | 240         | 0  | 16           | 21         | 0         |
| Grantsville         | 2            | 80          | 0  | 5            | 10         | 0         |
| Morgan              | 1            | 40          | 0  | 2            | 2          | 0         |
| Salt Lake           | 18           | 720         | 2  | 42           | 60         | 10        |
| Shambip             | 2            | 80          | 0  | 5            | 8          | 0         |
| Weber               | 1            | 40          | 1  | 2            | 2          | 0         |
| <b>Zone Totals:</b> | <b>30</b>    | <b>1200</b> | <b>3</b>                                   | <b>72</b>    | <b>103</b> | <b>10</b> |

Detailed tables follow covering the above water quality categories - General, Irrigation, Livestock, and Culinary (which includes Primary Drinking Water Standards and Secondary Drinking Water Standards) for each district along with a map(s). For the Irrigation, Livestock, and Culinary tables the first row lists the explicit standard for each element or compound (column). The standards for irrigation and livestock originated from the Water quality for agriculture 29 Revision 1, published by the Food and Agriculture Organization of the United Nations. The drinking water primary and secondary standards are from the State of Utah's water quality standards. Below the standards are the column headings (expressed as the chemical abbreviation) for each element or compound tested. Units used in measuring the concentrations of each element or compound are found below each abbreviation. Each row of the table is a single sample identified with a sample number. This sample number shows the sampling location on the map(s) located after the chemistry tables. Highlighted sample results show samples that exceed a standard for that element or compound. Totals at the bottom of each table show how many samples in each column exceeded the standard for that column. The value "ND" indicates that a particular element or compound was "Not Detected" for a given sample.

Davis County District

General:

General Sample Information

|                                | Sample No | Collected Date | Coliform | Ecoli | Temperature       | EC   | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site  | Site Condition | Well Head | Material | Casing Condition | Cullinary                           | Irrigation                          | Industrial               | Landscape                | Natural                  | Drainage                 | Other                    |
|--------------------------------|-----------|----------------|----------|-------|-------------------|------|----------|-----------|---------------|--------------|----------------|-----------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8039      | 6/10/2008      | ND       | ND    | 58.3 F (14.6 C)   | 490  | 308.0    | 0.900     | 181.5         | Flowing Well | Clean          | Lawn      | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8040      | 6/10/2008      | POS      | ND    | 56.8 F (13.8 C)   | 553  | 330.0    | 1.600     | 175.2         | Flowing Well | Clean          | Lawn      | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3                              | 8041      | 6/10/2008      | POS      | POS   | 56.8 F (13.8 C)   | 572  | 370.0    | 1.100     | 205.3         | Spring       | Clean          | Lawn      | Rock     | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4                              | 8042      | 6/10/2008      | POS      | ND    | 55.4 F (13.0 C)   | 890  | 599.0    | 2.700     | 242.2         | Well         | Clean          | Soil      | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5                              | 8043      | 6/10/2008      | ND       | ND    | 67.8 F (19.9 C)   | 1151 | 647.0    | 9.100     | 86.50         | Flowing Well | Livestock      | Soil      | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6                              | 8044      | 6/10/2008      | POS      | ND    | 61.3 F (16.3 C)   | 450  | 283.0    | 4.800     | 56.50         | Flowing Well | Livestock      | Soil      | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |           |                | 4        | 1     | ND - Not Detected |      |          |           |               |              |                |           |          |                  |                                     |                                     |                          |                          |                          |                          |                          |

Irrigation:

Irrigation Standards

|                                   | Sample No | Tested Date | 5 Al mg/L | 0.5;1.0;2.0; B mg/L | .1 Be mg/L | 100000 Ca mg/L | 71;355 Cl mg/L | 1 Co mg/L | 1000 CO3 mg/L | 1 Cr mg/L | 0.2 Cu mg/L | 2 F mg/L | 5 Fe mg/L | 73.2;152.5 HCO3 mg/L | 10000 K mg/L | 2.5 Li mg/L | 100000 Mg mg/L |
|-----------------------------------|-----------|-------------|-----------|---------------------|------------|----------------|----------------|-----------|---------------|-----------|-------------|----------|-----------|----------------------|--------------|-------------|----------------|
| 1                                 | 8039      | 6/13/2008   | ND        | 0.0344              | ND         | 49.7283        | 57.8556        | ND        | ND            | 0.0009    | 0.0077      | ND       | ND        | 194.0320             | 1.4208       | 0.0063      | 13.8732        |
| 2                                 | 8040      | 6/13/2008   | ND        | 0.0328              | ND         | 51.2517        | 39.5711        | ND        | ND            | 0.0011    | 0.0019      | ND       | ND        | 257.4010             | 0.7375       | 0.0044      | 11.4282        |
| 3                                 | 8041      | 6/13/2008   | ND        | 0.0417              | ND         | 55.7170        | 54.3460        | ND        | ND            | 0.0018    | 0.0021      | ND       | 0.1327    | 260.2240             | 1.2647       | 0.0082      | 16.0158        |
| 4                                 | 8042      | 6/13/2008   | ND        | 0.0932              | ND         | 57.8689        | 117.0926       | 0.0005    | ND            | 0.0017    | 0.0138      | ND       | ND        | 361.1590             | 2.0232       | 0.0215      | 23.6678        |
| 5                                 | 8043      | 6/13/2008   | ND        | 0.2691              | ND         | 23.1757        | 302.8717       | ND        | ND            | 0.0007    | 0.0096      | ND       | ND        | 203.5530             | 2.1109       | 0.0151      | 6.9395         |
| 6                                 | 8044      | 6/13/2008   | ND        | 0.0448              | ND         | 15.2059        | 22.3063        | ND        | ND            | 0.0011    | 0.0018      | ND       | 0.0291    | 286.5790             | 0.8389       | 0.0069      | 4.4794         |
| Test Count that Exceeded Standard |           |             | 0         | 0                   | 0          | 0              | 2              | 0         | 0             | 0         | 0           | 0        | 0         | 6                    | 0            | 0           | 0              |

ND - Not Detected

Irrigation Standards Continues

|                                    | Sample No | Tested Date | .2 Mn mg/L | .01 Mo mg/L | 70;230 Na mg/L | .2 Ni mg/L | 5 Pb mg/L | 10000 PO4 mg/L | 3;9 SAR meq/L | .02 Se mg/L | 151;451;13 TDS mg/L | .1 V mg/L | 2 Zn mg/L |
|------------------------------------|-----------|-------------|------------|-------------|----------------|------------|-----------|----------------|---------------|-------------|---------------------|-----------|-----------|
| 1                                  | 8039      | 6/13/2008   | 0.0650     | 0.0022      | 29.0883        | 0.0007     | ND        | ND             | 0.9000        | ND          | 308.0000            | ND        | 0.0397    |
| 2                                  | 8040      | 6/13/2008   | 0.0656     | 0.0011      | 47.3998        | ND         | ND        | ND             | 1.6000        | ND          | 330.0000            | ND        | ND        |
| 3                                  | 8041      | 6/13/2008   | 0.1261     | 0.0007      | 34.9025        | 0.0012     | ND        | ND             | 1.1000        | ND          | 370.0000            | ND        | 0.0025    |
| 4                                  | 8042      | 6/13/2008   | 0.2148     | 0.0008      | 95.7409        | 0.0010     | ND        | ND             | 2.7000        | ND          | 599.0000            | ND        | 0.0162    |
| 5                                  | 8043      | 6/13/2008   | 0.0013     | 0.0305      | 194.1043       | ND         | ND        | ND             | 9.1000        | ND          | 647.0000            | 0.0034    | 0.0026    |
| 6                                  | 8044      | 6/13/2008   | 0.0139     | 0.0023      | 82.1651        | ND         | ND        | ND             | 4.8000        | ND          | 283.0000            | ND        | ND        |
| Test Count that Exceeded Standard: |           |             | 1          | 1           | 3              | 0          | 0         | 0              | 2             | 0           | 6                   | 0         | 0         |

ND - Not Detected

## Livestock:

### Livestock Standards

|                                   |           |             | 5          | 0.2        | 5         | .1         | 0.05       | 1          | 1          | .5         | 2         | 10         | 440         | .1         | 5.5-8.3 | .05        | 167;333     | 1000;3000;  | 25         |
|-----------------------------------|-----------|-------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                 | 8039      | 6/13/2008   | ND         | ND         | 0.0344    | ND         | ND         | ND         | 0.0009     | 0.0077     | ND        | ND         | ND          | ND         | 7.5100  | ND         | 51.8564     | 308.0000    | 0.0397     |
| 2                                 | 8040      | 6/13/2008   | ND         | ND         | 0.0328    | ND         | ND         | ND         | 0.0011     | 0.0019     | ND        | ND         | ND          | ND         | 8.0500  | ND         | 46.9890     | 330.0000    | ND         |
| 3                                 | 8041      | 6/13/2008   | ND         | ND         | 0.0417    | ND         | ND         | ND         | 0.0018     | 0.0021     | ND        | ND         | ND          | ND         | 7.7400  | ND         | 72.8163     | 370.0000    | 0.0025     |
| 4                                 | 8042      | 6/13/2008   | ND         | ND         | 0.0932    | ND         | ND         | 0.0005     | 0.0017     | 0.0138     | ND        | ND         | ND          | ND         | 8.0200  | ND         | 120.2228    | 599.0000    | 0.0162     |
| 5                                 | 8043      | 6/13/2008   | ND         | ND         | 0.2691    | ND         | ND         | ND         | 0.0007     | 0.0096     | ND        | ND         | ND          | ND         | 8.0100  | ND         | ND          | 647.0000    | 0.0026     |
| 6                                 | 8044      | 6/13/2008   | ND         | 0.0051     | 0.0448    | ND         | ND         | ND         | 0.0011     | 0.0018     | ND        | ND         | ND          | ND         | 8.2000  | ND         | ND          | 283.0000    | ND         |
| Test Count that Exceeded Standard |           |             | 0          | 0          | 0         | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0           | 0          | 0       | 0          | 0           | 0           | 0          |

ND - Not Detected

## Culinary:

### Drinking Water Primary Standards

|                                   |           |             | 0.01       | 2          | 0.004      | 0.005      | 25           | 0.1        | 1.3        | 4         | 2          | 10000      | 1000       | 44.3        | .015       | .05        | 500         | 2000        |
|-----------------------------------|-----------|-------------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|
|                                   | Sample No | Tested Date | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |
| 1                                 | 8039      | 6/13/2008   | ND         | 0.0264     | ND         | ND         | ND           | 0.0009     | 0.0077     | ND        | ND         | 29.0883    | 0.0007     | ND          | ND         | ND         | 51.8564     | 308.0000    |
| 2                                 | 8040      | 6/13/2008   | ND         | 0.0467     | ND         | ND         | ND           | 0.0011     | 0.0019     | ND        | ND         | 47.3998    | ND         | ND          | ND         | ND         | 46.9890     | 330.0000    |
| 3                                 | 8041      | 6/13/2008   | ND         | 0.0590     | ND         | ND         | ND           | 0.0018     | 0.0021     | ND        | ND         | 34.9025    | 0.0012     | ND          | ND         | ND         | 72.8163     | 370.0000    |
| 4                                 | 8042      | 6/13/2008   | ND         | 0.0468     | ND         | ND         | ND           | 0.0017     | 0.0138     | ND        | ND         | 95.7409    | 0.0010     | ND          | ND         | ND         | 120.2228    | 599.0000    |
| 5                                 | 8043      | 6/13/2008   | ND         | 0.0353     | ND         | ND         | ND           | 0.0007     | 0.0096     | ND        | ND         | 194.1043   | ND         | ND          | ND         | ND         | ND          | 647.0000    |
| 6                                 | 8044      | 6/13/2008   | 0.0051     | 0.0235     | ND         | ND         | ND           | 0.0011     | 0.0018     | ND        | ND         | 82.1651    | ND         | ND          | ND         | ND         | ND          | 283.0000    |
| Test Count that Exceeded Standard |           |             | 0          | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0           |

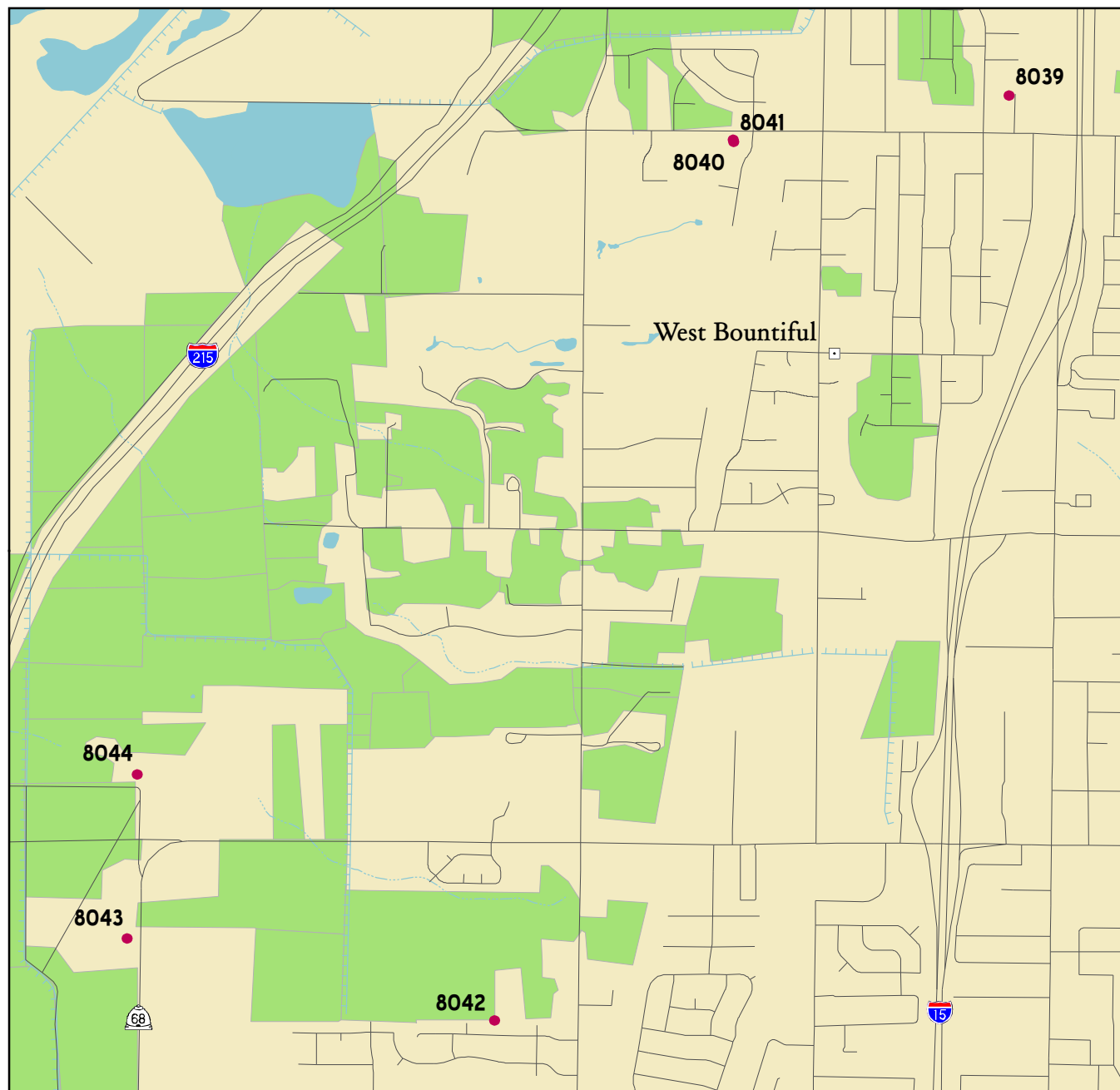
ND - Not Detected

### Drinking Water Secondary Standards:

|                                    |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                    | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                  | 8039      | 6/13/2008   | ND         | ND         | 57.8556    | 0.0077     | ND        | ND         | 181.5000     | 0.0650     | 7.5100  | 6.8272     | 51.8564     | 308.0000    | 0.0397     |
| 2                                  | 8040      | 6/13/2008   | ND         | ND         | 39.5711    | 0.0019     | ND        | ND         | 175.2000     | 0.0656     | 8.0500  | 5.4967     | 46.9890     | 330.0000    | ND         |
| 3                                  | 8041      | 6/13/2008   | ND         | ND         | 54.3460    | 0.0021     | ND        | 0.1327     | 205.3000     | 0.1261     | 7.7400  | 6.9926     | 72.8163     | 370.0000    | 0.0025     |
| 4                                  | 8042      | 6/13/2008   | ND         | ND         | 117.0926   | 0.0138     | ND        | ND         | 242.2000     | 0.2148     | 8.0200  | 4.4439     | 120.2228    | 599.0000    | 0.0162     |
| 5                                  | 8043      | 6/13/2008   | ND         | ND         | 302.8717   | 0.0096     | ND        | ND         | 86.5000      | 0.0013     | 8.0100  | 5.7280     | ND          | 647.0000    | 0.0026     |
| 6                                  | 8044      | 6/13/2008   | ND         | ND         | 22.3063    | 0.0018     | ND        | 0.0291     | 56.5000      | 0.0139     | 8.2000  | 7.8604     | ND          | 283.0000    | ND         |
| Test Count that Exceeded Standard: |           |             | 0          | 0          | 1          | 0          | 0         | 0          | 5            | 4          | 0       | 0          | 0           | 6           | 0          |

ND - Not Detected

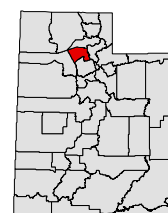
Map 6. Davis County District











Map Scale 1:22,000 (1 inch = 0.35 miles)



District Location



- |  |   |
|--|---|
| ● Sample location  |  Intermittent stream |
|  Road           |  Water body          |
|  Stream         |  Irrigated cropland  |
|  Ditch or canal |  District boundary   |
|  Aqueduct       |   |



# Grantsville District

## General:

### General Sample Information

| Sample No                      | Collected Date | Coliform  | Ecoli | Temperature       | EC              | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head | Material     | Casing Condition | Cullinary | Irrigation                          | Industrial                          | Landscape                | Natural                  | Drainage                 | Other                    |
|--------------------------------|----------------|-----------|-------|-------------------|-----------------|----------|-----------|---------------|-------------|----------------|-----------|--------------|------------------|-----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8032           | 6/10/2008 | ND    | ND                | 58.8 F (14.9 C) | 1070     | 626.0     | 3.400         | 259.8       | Well           | Clean     | Pit Concrete | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8033           | 6/10/2008 | ND    | ND                | 65.3 F (18.5 C) | 1458     | 892.0     | 5.700         | 263.6       | Well           | Clean     | Soil         | PVC              | Open      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                | 0         | 0     | ND - Not Detected |                 |          |           |               |             |                |           |              |                  |           |                                     |                                     |                          |                          |                          |                          |

## Irrigation:

### Irrigation Standards

| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                                 | 8032      | 6/13/2008   | ND         | 0.1007       | ND         | 59.6260    | 187.5294   | ND         | ND          | 0.0014     | 0.0112     | ND        | ND         | 256.9200     | 6.0619    | 0.0585     | 26.8826    |
| 2                                 | 8033      | 6/13/2008   | ND         | 0.1279       | ND         | 65.3335    | 290.0604   | ND         | ND          | 0.0035     | 0.0170     | ND        | ND         | 298.3220     | 6.2583    | 0.0681     | 24.3281    |
| Test Count that Exceeded Standard |           |             | 0          | 0            | 0          | 0          | 2          | 0          | 0           | 0          | 0          | 0         | 0          | 2            | 0         | 0          | 0          |

ND - Not Detected

### Irrigation Standards Continues

| Sample No                          | Tested Date | Mn mg/L   | Mo mg/L | Na mg/L | Ni mg/L  | Pb mg/L | PO4 mg/L | SAR meq/L | Se mg/L | TDS mg/L | V mg/L   | Zn mg/L |
|------------------------------------|-------------|-----------|---------|---------|----------|---------|----------|-----------|---------|----------|----------|---------|
| 1                                  | 8032        | 6/13/2008 | 0.0320  | 0.0026  | 124.2421 | 0.0009  | ND       | ND        | 3.4000  | ND       | 626.0000 | 0.0534  |
| 2                                  | 8033        | 6/13/2008 | ND      | 0.0017  | 214.4682 | 0.0010  | ND       | ND        | 5.7000  | ND       | 892.0000 | 0.0065  |
| Test Count that Exceeded Standard: |             | 0         | 0       | 2       | 0        | 0       | 0        | 2         | 0       | 2        | 0        | 0       |

ND - Not Detected

## Livestock:

### Livestock Standards

| Sample No                          | Tested Date | AI mg/L   | As mg/L | B mg/L | Be mg/L | Cd mg/L | Co mg/L | Cr mg/L | Cu mg/L | F mg/L | Hg ug/L | NO3 mg/L | Pb mg/L | pH     | Se mg/L | SO4 mg/L | TDS mg/L | Zn mg/L |
|------------------------------------|-------------|-----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|----------|---------|--------|---------|----------|----------|---------|
| 1                                  | 8032        | 6/13/2008 | ND      | ND     | 0.1007  | ND      | ND      | 0.0014  | 0.0112  | ND     | ND      | ND       | ND      | 7.8500 | ND      | 81.8439  | 626.0000 | 0.0534  |
| 2                                  | 8033        | 6/13/2008 | ND      | 0.0020 | 0.1279  | ND      | ND      | 0.0035  | 0.0170  | ND     | ND      | ND       | ND      | 7.8500 | ND      | 131.0005 | 892.0000 | 0.0065  |
| Test Count that Exceeded Standard: |             | 0         | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0        | 0       | 0      | 0       | 0        | 0        | 0       |

ND - Not Detected

## Culinary:

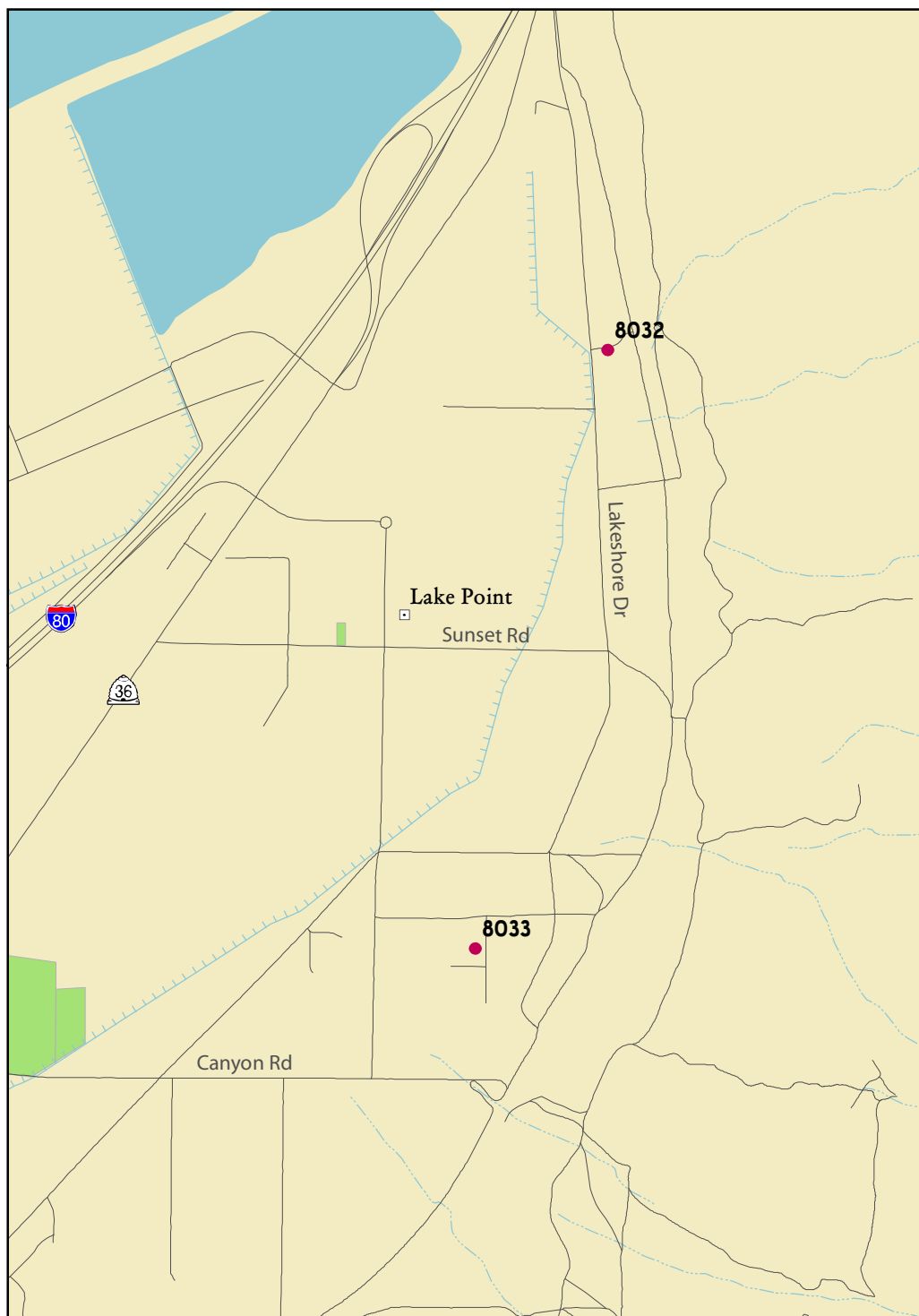
| Drinking Water Primary Standards: |             |            | 0.01       | 2          | 0.004      | 0.005        | 25         | 0.1        | 1.3       | 4          | 2          | 10000      | 1000        | 44.3       | .015       | .05         | 500         | 2000     |
|-----------------------------------|-------------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|----------|
| Sample No                         | Tested Date | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |          |
| 1                                 | 8032        | 6/13/2008  | ND         | 0.0725     | ND         | ND           | ND         | 0.0014     | 0.0112    | ND         | ND         | 124.2421   | 0.0009      | ND         | ND         | ND          | 81.8439     | 626.0000 |
| 2                                 | 8033        | 6/13/2008  | 0.0020     | 0.0707     | ND         | ND           | ND         | 0.0035     | 0.0170    | ND         | ND         | 214.4682   | 0.0010      | ND         | ND         | ND          | 131.0005    | 892.0000 |
| Test Count that Exceeded Standard |             |            | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0           | 0        |

ND - Not Detected

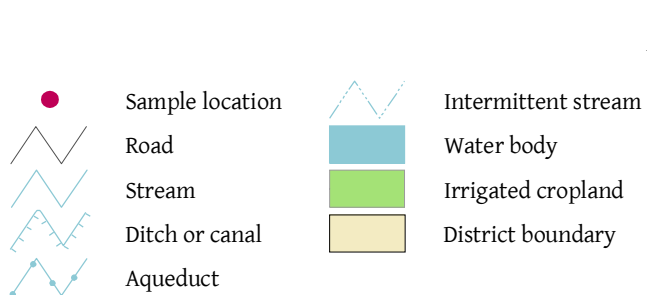
| Drinking Water Secondary Standards: |             |           | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-------------|-----------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
| Sample No                           | Tested Date |           | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8032        | 6/13/2008 | ND         | ND         | 187.5294   | 0.0112     | ND        | ND         | 259.8000     | 0.0320     | 7.8500  | 6.4889     | 81.8439     | 626.0000    | 0.0534     |
| 2                                   | 8033        | 6/13/2008 | ND         | ND         | 290.0604   | 0.0170     | ND        | ND         | 263.6000     | ND         | 7.8500  | 5.6030     | 131.0005    | 892.0000    | 0.0065     |
| Test Count that Exceeded Standard:  |             |           | 0          | 0          | 1          | 0          | 0         | 0          | 2            | 0          | 0       | 0          | 0           | 2           | 0          |

ND - Not Detected

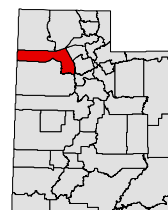
Map 7. Grantsville District



Map Scale 1:24,000 (1 inch = 0.4 miles)



District Location





Morgan District

General:

General Sample Information

| Sample No                      | Collected Date | Coliform  | Ecoli | Temperature       | EC              | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head | Material    | Casing Condition | Cullinary                           | Irrigation                          | Industrial               | Landscape                | Natural                  | Drainage                 | Other                    |
|--------------------------------|----------------|-----------|-------|-------------------|-----------------|----------|-----------|---------------|-------------|----------------|-----------|-------------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8045           | 6/10/2008 | ND    | ND                | 55.2 F (12.9 C) | 773      | 493.0     | 0.800         | 376.3       | Well           | Clean     | Inside Home | Steel            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                | 0         | 0     | ND - Not Detected |                 |          |           |               |             |                |           |             |                  |                                     |                                     |                          |                          |                          |                          |                          |

Irrigation:

Irrigation Standards

| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | 1          | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                                 | 8045      | 6/13/2008   | ND         | 0.0456       | ND         | 108.0394   | 65.9103    | ND         | ND          | 0.0020     | 0.0152     | ND        | ND         | 384.6130     | 4.0998    | 0.0147     | 25.7696    |
| Test Count that Exceeded Standard |           |             | 0          | 0            | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0         | 0          | 1            | 0         | 0          | 0          |

ND - Not Detected

Irrigation Standards Continues

| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8045      | 6/13/2008   | 0.0013     | ND         | 34.4322    | 0.0013     | ND         | ND          | 0.8000       | ND         | 493.0000    | ND        | 0.0206     |
| Test Count that Exceeded Standard: |           |             | 0          | 0          | 0          | 0          | 0          | 0           | 0            | 0          | 1           | 0         | 0          |

ND - Not Detected

Livestock:

Livestock Standards

| Sample No                         | Tested Date | Al mg/L   | As mg/L | B mg/L | Be mg/L | Cd mg/L | Co mg/L | Cr mg/L | Cu mg/L | F mg/L | Hg ug/L | NO3 mg/L | Pb mg/L | pH     | Se mg/L | SO4 mg/L | TDS mg/L | Zn mg/L |
|-----------------------------------|-------------|-----------|---------|--------|---------|---------|---------|---------|---------|--------|---------|----------|---------|--------|---------|----------|----------|---------|
| 1                                 | 8045        | 6/13/2008 | ND      | ND     | 0.0456  | ND      | ND      | 0.0020  | 0.0152  | ND     | ND      | ND       | ND      | 7.7800 | ND      | 47.1949  | 493.0000 | 0.0206  |
| Test Count that Exceeded Standard |             | 0         | 0       | 0      | 0       | 0       | 0       | 0       | 0       | 0      | 0       | 0        | 0       | 0      | 0       | 0        | 0        | 0       |

ND - Not Detected

**Culinary:**

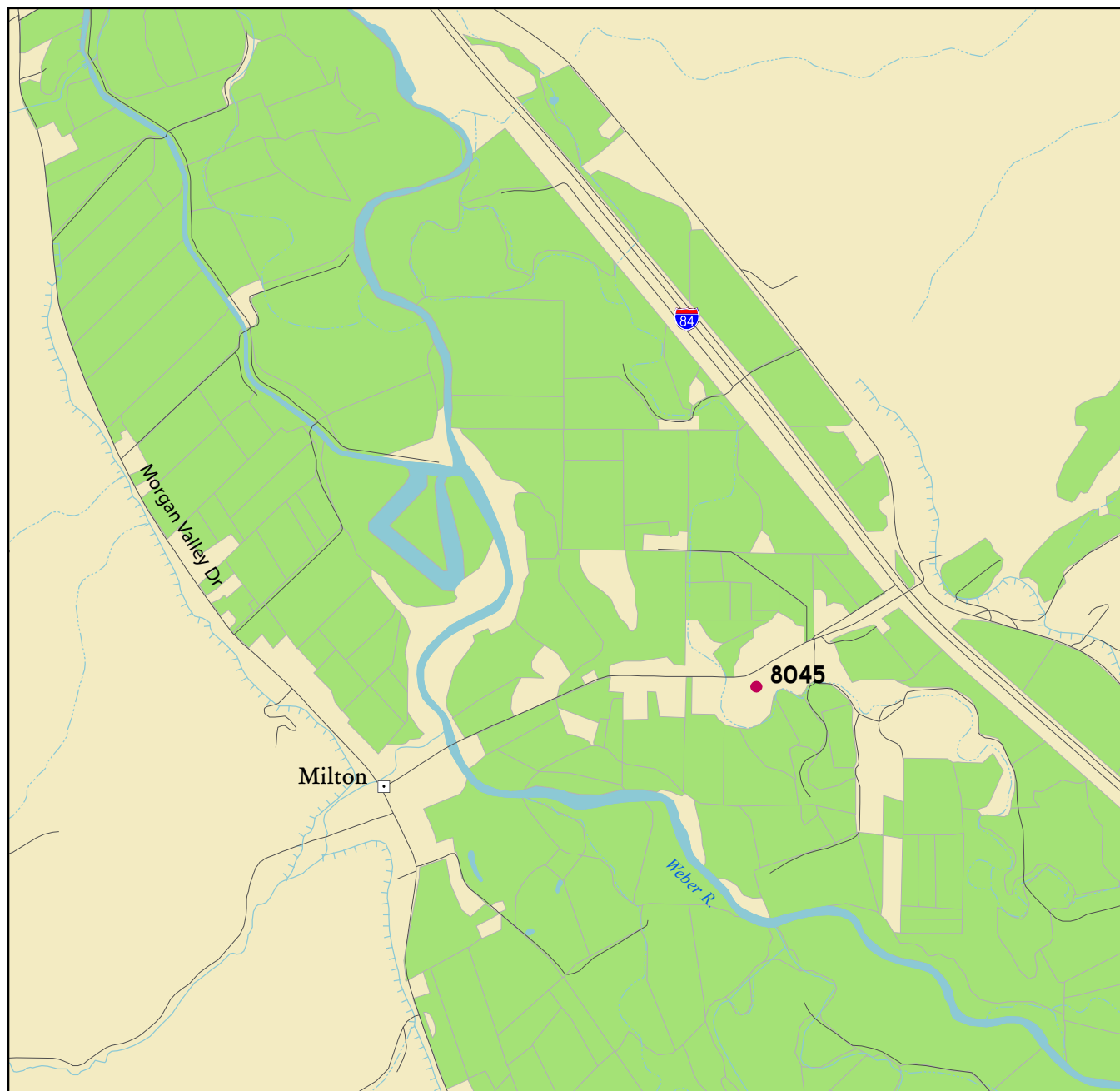
[illegible]

ND - Not Detected

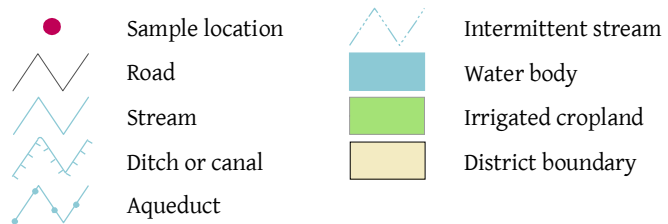
| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8045      | 6/13/2008   | ND         | ND         | 65.9103    | 0.0152     | ND        | ND         | 376.3000     | 0.0013     | 7.7800  | 7.1040     | 47.1949     | 493.0000    | 0.0206     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 0          | 0          | 0         | 0          | 1            | 0          | 0       | 0          | 0           | 1           | 0          |

ND - Not Detected

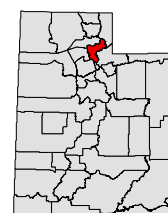
Map 8. Morgan County District



Map Scale 1:20,000 (1 inch = 0.32 miles)



District Location



# Salt Lake District

## General:

### General Sample Information

|    | Sample No | Collected Date | Coliform | Ecoli | Temperature     | EC   | TDS mg/L | SAR meq/L.mg/L | Hardness | Sample Site  | Site Condition | Well Head    | Material | Casing Condition | Cullinary                           | Irrigation                          | Industrial               | Landscape                | Natural                             | Drainage                            | Other                    |
|----|-----------|----------------|----------|-------|-----------------|------|----------|----------------|----------|--------------|----------------|--------------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1  | 8031      | 6/10/2008      | ND       | ND    | 57.7 F (14.3 C) | 1200 | 866.0    | 1.300          | 518.7    | Well         | Clean          | Lawn         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 2  | 8034      | 6/10/2008      | ND       | ND    | 59.0 F (15.0 C) | 1498 | 1128.    | 3.700          | 416.2    | Flowing Well | Clean          | Pit Concrete | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3  | 8035      | 6/10/2008      | ND       | ND    | 58.1 F (14.5 C) | 717  | 448.0    | 0.500          | 338.1    | Flowing Well | Clean          | Well House   | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 4  | 8036      | 6/10/2008      | ND       | ND    | 54.3 F (12.4 C) | 707  | 447.0    | 0.900          | 282.8    | Well         | Clean          | Covered      | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 5  | 8037      | 6/10/2008      | ND       | ND    | 49.8 F (9.9 C)  | 2410 | 1239.    | 3.900          | 568.2    | Well         | Clean          | Pit Concrete | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 6  | 8038      | 6/10/2008      | ND       | ND    | 57.7 F (14.3 C) | 1260 | 808.0    | 0.900          | 568.5    | Flowing Well | Clean          | Concrete Pad | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 7  | 8166      | 8/12/2008      | POS      | POS   | 59.9 F (15.5 C) | 2650 | 1525.    | 3.800          | 730.4    | Well         | Clean          | Covered      | PVC      | Open             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8  | 8167      | 8/12/2008      | ND       | ND    | 57.9 F (14.4 C) | 1018 | 624.0    | 0.700          | 483.6    | Well         | Vegetated      | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 9  | 8168      | 8/12/2008      | ND       | ND    | 64.0 F (17.8 C) | 1937 | 1193.    | 4.200          | 559.6    | Well         | Clean          | Well House   | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 10 | 8169      | 8/12/2008      | ND       | ND    | 52.3 F (11.3 C) | 844  | 525.0    | 0.500          | 459.5    | Spring       | Clean          | Natural      | Steel    | Sealed           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 11 | 8272      | 9/29/2008      | POS      | ND    | 45.1 F (7.3 C)  | 450  | 248.0    | 0.100          | 225.3    | Spring       | Vegetated      | Gravel       | Earth    | Open             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 12 | 8273      | 9/29/2008      | ND       | ND    | 49.5 F (9.7 C)  | 488  | 274.0    | 0.100          | 252.1    | Spring       | Vegetated      | Gravel       | Steel    | Open             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 13 | 8274      | 9/29/2008      | POS      | ND    | 50.9 F (10.5 C) | 266  | 152.0    | 0.200          | 127.8    | Spring       | Vegetated      | Gravel       | Rock     | Open             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 14 | 8275      | 9/29/2008      | ND       | ND    | 55.9 F (13.3 C) | 648  | 356.0    | 0.700          | 256.9    | Well         | Vegetated      | Lawn         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 15 | 8276      | 9/29/2008      | ND       | ND    | 56.8 F (13.8 C) | 911  | 586.0    | 1.000          | 429.6    | Flowing Well | Vegetated      | Lawn         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 16 | 8277      | 9/29/2008      | ND       | ND    | 55.2 F (12.9 C) | 1045 | 589.0    | 1.400          | 461.9    | Well         | Vegetated      | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 17 | 8278      | 9/29/2008      | ND       | ND    | 61.7 F (16.5 C) | 3080 | 1723.    | 8.000          | 620.9    | Well         | Vegetated      | Covered      | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| 18 | 8321      | 10/29/2008     | ND       | ND    | 60.8 F (16.0 C) | 1464 | 953.0    | 2.100          | 591.2    | Well         | Clean          | Gravel       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |

Bacteria Positive Sample Count      3      1      ND - Not Detected



**Irrigation:**

| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                                 | 8031      | 6/13/2008   | ND         | 0.0903       | ND         | 150.4881   | 313.7061   | ND         | ND          | 0.0023     | 0.0185     | ND        | ND         | 281.5020     | 3.2062    | 0.0267     | 34.5765    |
| 2                                 | 8034      | 6/13/2008   | ND         | 0.3475       | ND         | 84.2067    | 257.7655   | ND         | ND          | 0.0033     | 0.0200     | ND        | ND         | 461.2740     | 6.7980    | 0.1368     | 49.9304    |
| 3                                 | 8035      | 6/13/2008   | ND         | 0.0209       | ND         | 86.7999    | 46.4762    | ND         | ND          | 0.0016     | 0.0052     | ND        | ND         | 267.6500     | 1.8857    | 0.0115     | 29.4009    |
| 4                                 | 8036      | 6/13/2008   | ND         | 0.0244       | ND         | 75.3111    | 99.3475    | ND         | ND          | 0.0012     | 0.0113     | ND        | ND         | 254.9920     | 1.8855    | 0.0060     | 22.9417    |
| 5                                 | 8037      | 6/13/2008   | ND         | 0.0485       | ND         | 173.5505   | 529.4777   | 0.0003     | ND          | 0.0025     | 0.0409     | ND        | ND         | 429.6870     | 2.9334    | 0.0213     | 32.6068    |
| 6                                 | 8038      | 6/13/2008   | ND         | 0.0836       | ND         | 138.4234   | 159.5154   | ND         | ND          | 0.0038     | 0.0145     | ND        | ND         | 410.2140     | 3.0541    | 0.0282     | 53.9842    |
| 7                                 | 8166      | 8/20/2008   | ND         | 0.4798       | ND         | 94.8342    | 470.9664   | 0.0003     | ND          | 0.0007     | 0.0103     | ND        | 0.0264     | 698.8870     | 16.5480   | 0.1956     | 119.7307   |
| 8                                 | 8167      | 8/20/2008   | ND         | 0.0663       | ND         | 120.4789   | 84.3095    | ND         | ND          | 0.0091     | 0.0164     | ND        | ND         | 311.9690     | 3.5864    | 0.0233     | 44.2633    |
| 9                                 | 8168      | 8/20/2008   | ND         | 0.4534       | ND         | 98.8219    | 280.9765   | ND         | ND          | 0.0006     | 0.0085     | ND        | ND         | 452.2280     | 29.6627   | 0.2269     | 75.8540    |
| 10                                | 8169      | 8/20/2008   | ND         | 0.0866       | ND         | 129.3948   | 14.7374    | ND         | ND          | ND         | 0.0119     | ND        | ND         | 504.6800     | 1.9296    | 0.0141     | 33.0106    |
| 11                                | 8272      | 9/30/2008   | ND         | 0.0102       | ND         | 61.3862    | ND         | ND         | ND          | 0.0016     | 0.0174     | ND        | ND         | 279.6550     | 0.7116    | ND         | 17.4254    |
| 12                                | 8273      | 9/30/2008   | ND         | 0.0084       | ND         | 63.0557    | ND         | ND         | ND          | 0.0020     | 0.0174     | ND        | ND         | 301.9790     | 0.6274    | ND         | 22.9169    |
| 13                                | 8274      | 9/30/2008   | ND         | 0.0094       | ND         | 31.9461    | ND         | ND         | ND          | ND         | 0.0173     | ND        | ND         | 155.9900     | 0.6819    | ND         | 11.6304    |
| 14                                | 8275      | 9/30/2008   | ND         | 0.0135       | ND         | 70.7308    | 77.6795    | ND         | ND          | 0.0009     | 0.0054     | ND        | ND         | 169.5620     | 2.3386    | 0.0045     | 19.4429    |
| 15                                | 8276      | 9/30/2008   | ND         | 0.0696       | ND         | 108.7085   | 58.9214    | ND         | ND          | 0.0009     | 0.0169     | ND        | ND         | 301.3800     | 3.6286    | 0.0294     | 38.3057    |
| 16                                | 8277      | 9/30/2008   | ND         | 0.0543       | ND         | 133.0144   | 116.7668   | ND         | ND          | 0.0012     | 0.0383     | ND        | 0.0186     | 341.2910     | 1.9244    | 0.0137     | 31.3912    |
| 17                                | 8278      | 10/2/2008   | ND         | 0.0684       | ND         | 198.0046   | 764.9162   | ND         | ND          | 0.0017     | 0.1763     | ND        | 0.0169     | 433.7740     | 4.3828    | 0.0272     | 30.5445    |
| 18                                | 8321      | 11/4/2008   | ND         | 0.2350       | ND         | 127.0114   | 243.4483   | ND         | ND          | 0.0006     | 0.0356     | ND        | ND         | 316.0430     | 18.6911   | 0.1021     | 66.4193    |
| Test Count that Exceeded Standard |           |             | 0          | 0            | 0          | 0          | 12         | 0          | 0           | 0          | 0          | 0         | 0          | 18           | 0         | 0          | 0          |

ND - Not Detected

| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8031      | 6/13/2008   | 0.0003     | 0.0010     | 67.1380    | 0.0019     | ND         | ND          | 1.3000       | 0.0049     | 866.0000    | 0.0077    | 0.0309     |
| 2                                  | 8034      | 6/13/2008   | ND         | 0.0017     | 171.8711   | 0.0011     | ND         | ND          | 3.7000       | ND         | 1128.0000   | 0.0106    | 0.0125     |
| 3                                  | 8035      | 6/13/2008   | 0.0005     | 0.0008     | 19.2645    | 0.0009     | ND         | ND          | 0.5000       | ND         | 448.0000    | ND        | 0.0038     |
| 4                                  | 8036      | 6/13/2008   | 0.0048     | 0.0018     | 34.5105    | 0.0012     | ND         | ND          | 0.9000       | ND         | 447.0000    | ND        | 0.0205     |
| 5                                  | 8037      | 6/13/2008   | 0.0047     | ND         | 216.1358   | 0.0056     | ND         | ND          | 3.9000       | ND         | 1239.0000   | ND        | 0.0207     |
| 6                                  | 8038      | 6/13/2008   | 0.0007     | 0.0008     | 49.5753    | 0.0015     | ND         | ND          | 0.9000       | ND         | 808.0000    | 0.0020    | 0.0045     |
| 7                                  | 8166      | 8/20/2008   | 0.0372     | 0.0162     | 236.3521   | 0.0017     | ND         | ND          | 3.8000       | 0.0044     | 1525.0000   | ND        | 0.0245     |
| 8                                  | 8167      | 8/20/2008   | 0.0030     | 0.0015     | 34.3379    | 0.0042     | ND         | ND          | 0.7000       | ND         | 624.0000    | ND        | 1.0500     |
| 9                                  | 8168      | 8/20/2008   | 0.0025     | 0.0015     | 225.9060   | 0.0018     | 0.0022     | ND          | 4.2000       | ND         | 1193.0000   | 0.0063    | 0.0544     |
| 10                                 | 8169      | 8/20/2008   | ND         | ND         | 22.8646    | 0.0010     | ND         | ND          | 0.5000       | ND         | 525.0000    | ND        | 0.0210     |
| 11                                 | 8272      | 9/30/2008   | 0.0004     | 0.0008     | 4.6580     | 0.0010     | ND         | ND          | 0.1000       | ND         | 248.0000    | ND        | 0.0052     |
| 12                                 | 8273      | 9/30/2008   | ND         | ND         | 3.6065     | 0.0014     | 0.0026     | ND          | 0.1000       | ND         | 274.0000    | ND        | 0.0668     |
| 13                                 | 8274      | 9/30/2008   | 0.0003     | ND         | 4.2635     | ND         | ND         | ND          | 0.2000       | ND         | 152.0000    | ND        | 0.0035     |
| 14                                 | 8275      | 9/30/2008   | 0.0005     | 0.0016     | 24.8128    | ND         | ND         | ND          | 0.7000       | ND         | 356.0000    | ND        | 0.0089     |
| 15                                 | 8276      | 9/30/2008   | 0.0009     | ND         | 47.8944    | ND         | ND         | ND          | 1.0000       | 0.0055     | 586.0000    | ND        | 0.0072     |
| 16                                 | 8277      | 9/30/2008   | 0.0006     | ND         | 66.7492    | 0.0009     | ND         | ND          | 1.4000       | ND         | 589.0000    | ND        | 0.0127     |
| 17                                 | 8278      | 10/2/2008   | 0.0040     | ND         | 455.9753   | 0.0026     | ND         | ND          | 8.0000       | ND         | 1723.0000   | 0.0036    | 0.0447     |
| 18                                 | 8321      | 11/4/2008   | 0.0017     | 0.0017     | 118.0573   | 0.0011     | ND         | ND          | 2.1000       | ND         | 953.0000    | 0.0044    | 0.0553     |
| Test Count that Exceeded Standard: |           |             | 0          | 1          | 6          | 0          | 0          | 0           | 5            | 0          | 18          | 0         | 0          |

ND - Not Detected

Livestock:

| Livestock Standards               |             |           | 5          | 0.2        | 5         | .1         | 0.05       | 1          | 1          | .5         | 2         | 10         | 440         | .1         | 5.5-8.3 | .05        | 167;333     | 1000;3000;  | 25         |
|-----------------------------------|-------------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|
| Sample No                         | Tested Date |           | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                 | 8031        | 6/13/2008 | ND         | 0.0040     | 0.0903    | ND         | ND         | ND         | 0.0023     | 0.0185     | ND        | ND         | 12.1392     | ND         | 7.9000  | 0.0049     | 128.7711    | 866.0000    | 0.0309     |
| 2                                 | 8034        | 6/13/2008 | ND         | 0.0108     | 0.3475    | ND         | ND         | ND         | 0.0033     | 0.0200     | ND        | ND         | 46.0562     | ND         | 7.7300  | ND         | 266.4126    | 1128.0000   | 0.0125     |
| 3                                 | 8035        | 6/13/2008 | ND         | ND         | 0.0209    | ND         | ND         | ND         | 0.0016     | 0.0052     | ND        | ND         | ND          | ND         | 7.7800  | ND         | 120.6542    | 448.0000    | 0.0038     |
| 4                                 | 8036        | 6/13/2008 | ND         | ND         | 0.0244    | ND         | ND         | ND         | 0.0012     | 0.0113     | ND        | ND         | ND          | ND         | 7.8600  | ND         | 79.2420     | 447.0000    | 0.0205     |
| 5                                 | 8037        | 6/13/2008 | ND         | ND         | 0.0485    | ND         | ND         | 0.0003     | 0.0025     | 0.0409     | ND        | ND         | ND          | ND         | 7.4600  | ND         | 60.9747     | 1239.0000   | 0.0207     |
| 6                                 | 8038        | 6/13/2008 | ND         | ND         | 0.0836    | ND         | ND         | ND         | 0.0038     | 0.0145     | ND        | ND         | 21.6028     | ND         | 7.5500  | ND         | 171.7080    | 808.0000    | 0.0045     |
| 7                                 | 8166        | 8/20/2008 | ND         | 0.0029     | 0.4798    | ND         | ND         | 0.0003     | 0.0007     | 0.0103     | ND        | ND         | ND          | ND         | 7.6900  | 0.0044     | 225.5273    | 1525.0000   | 0.0245     |
| 8                                 | 8167        | 8/20/2008 | ND         | ND         | 0.0663    | ND         | ND         | ND         | 0.0091     | 0.0164     | ND        | ND         | 11.8491     | ND         | 7.3300  | ND         | 164.3488    | 624.0000    | 1.0500     |
| 9                                 | 8168        | 8/20/2008 | ND         | 0.0052     | 0.4534    | ND         | ND         | ND         | 0.0006     | 0.0085     | ND        | ND         | 17.5119     | 0.0022     | 7.5900  | ND         | 214.2763    | 1193.0000   | 0.0544     |
| 10                                | 8169        | 8/20/2008 | ND         | ND         | 0.0866    | ND         | ND         | ND         | ND         | 0.0119     | ND        | ND         | ND          | ND         | 7.1900  | ND         | 65.1633     | 525.0000    | 0.0210     |
| 11                                | 8272        | 9/30/2008 | ND         | ND         | 0.0102    | ND         | ND         | ND         | 0.0016     | 0.0174     | ND        | ND         | ND          | ND         | 7.6800  | ND         | 12.7317     | 248.0000    | 0.0052     |
| 12                                | 8273        | 9/30/2008 | ND         | ND         | 0.0084    | ND         | ND         | ND         | 0.0020     | 0.0174     | ND        | ND         | ND          | 0.0026     | 7.5800  | ND         | 23.8633     | 274.0000    | 0.0668     |
| 13                                | 8274        | 9/30/2008 | ND         | ND         | 0.0094    | ND         | ND         | ND         | ND         | 0.0173     | ND        | ND         | ND          | ND         | 8.1100  | ND         | 16.3658     | 152.0000    | 0.0035     |
| 14                                | 8275        | 9/30/2008 | ND         | ND         | 0.0135    | ND         | ND         | ND         | 0.0009     | 0.0054     | ND        | ND         | ND          | ND         | 7.8500  | ND         | 62.3652     | 356.0000    | 0.0089     |
| 15                                | 8276        | 9/30/2008 | ND         | ND         | 0.0696    | ND         | ND         | ND         | 0.0009     | 0.0169     | ND        | ND         | ND          | ND         | 7.4200  | 0.0055     | 165.0030    | 586.0000    | 0.0072     |
| 16                                | 8277        | 9/30/2008 | ND         | ND         | 0.0543    | ND         | ND         | ND         | 0.0012     | 0.0383     | ND        | ND         | ND          | ND         | 7.3200  | ND         | 57.8397     | 589.0000    | 0.0127     |
| 17                                | 8278        | 10/2/2008 | ND         | 0.0030     | 0.0684    | ND         | ND         | ND         | 0.0017     | 0.1763     | ND        | ND         | ND          | ND         | 7.1500  | ND         | 40.8743     | 1723.0000   | 0.0447     |
| 18                                | 8321        | 11/4/2008 | ND         | 0.0059     | 0.2350    | ND         | ND         | ND         | 0.0006     | 0.0356     | ND        | ND         | 17.2388     | ND         | 7.3800  | ND         | 183.8791    | 953.0000    | 0.0553     |
| Test Count that Exceeded Standard |             |           | 0          | 0          | 0         | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0           | 0          | 0       | 0          | 5           | 5           | 0          |

ND - Not Detected



**Culinary:**

| Drinking Water Primary Standards  |             |           | 0.01       | 2          | 0.004      | 0.005      | 25           | 0.1        | 1.3        | 4         | 2          | 10000      | 1000       | 44.3        | .015       | .05        | 500         | 2000        |
|-----------------------------------|-------------|-----------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|
| Sample No                         | Tested Date |           | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |
| 1                                 | 8031        | 6/13/2008 | 0.0040     | 0.1607     | ND         | ND         | ND           | 0.0023     | 0.0185     | ND        | ND         | 67.1380    | 0.0019     | 12.1392     | ND         | 0.0049     | 128.7711    | 866.0000    |
| 2                                 | 8034        | 6/13/2008 | 0.0108     | 0.0299     | ND         | ND         | ND           | 0.0033     | 0.0200     | ND        | ND         | 171.8711   | 0.0011     | 46.0562     | ND         | ND         | 266.4126    | 1128.0000   |
| 3                                 | 8035        | 6/13/2008 | ND         | 0.0452     | ND         | ND         | ND           | 0.0016     | 0.0052     | ND        | ND         | 19.2645    | 0.0009     | ND          | ND         | ND         | 120.6542    | 448.0000    |
| 4                                 | 8036        | 6/13/2008 | ND         | 0.0635     | ND         | ND         | ND           | 0.0012     | 0.0113     | ND        | ND         | 34.5105    | 0.0012     | ND          | ND         | ND         | 79.2420     | 447.0000    |
| 5                                 | 8037        | 6/13/2008 | ND         | 0.1724     | ND         | ND         | ND           | 0.0025     | 0.0409     | ND        | ND         | 216.1358   | 0.0056     | ND          | ND         | ND         | 60.9747     | 1239.0000   |
| 6                                 | 8038        | 6/13/2008 | ND         | 0.0337     | ND         | ND         | ND           | 0.0038     | 0.0145     | ND        | ND         | 49.5753    | 0.0015     | 21.6028     | ND         | ND         | 171.7080    | 808.0000    |
| 7                                 | 8166        | 8/20/2008 | 0.0029     | 0.0587     | ND         | ND         | ND           | 0.0007     | 0.0103     | ND        | ND         | 236.3521   | 0.0017     | ND          | ND         | 0.0044     | 225.5273    | 1525.0000   |
| 8                                 | 8167        | 8/20/2008 | ND         | 0.0292     | ND         | ND         | ND           | 0.0091     | 0.0164     | ND        | ND         | 34.3379    | 0.0042     | 11.8491     | ND         | ND         | 164.3488    | 624.0000    |
| 9                                 | 8168        | 8/20/2008 | 0.0052     | 0.0377     | ND         | ND         | ND           | 0.0006     | 0.0085     | ND        | ND         | 225.9060   | 0.0018     | 17.5119     | 0.0022     | ND         | 214.2763    | 1193.0000   |
| 10                                | 8169        | 8/20/2008 | ND         | 0.0621     | ND         | ND         | ND           | ND         | 0.0119     | ND        | ND         | 22.8646    | 0.0010     | ND          | ND         | ND         | 65.1633     | 525.0000    |
| 11                                | 8272        | 9/30/2008 | ND         | 0.0832     | ND         | ND         | ND           | 0.0016     | 0.0174     | ND        | ND         | 4.6580     | 0.0010     | ND          | ND         | ND         | 12.7317     | 248.0000    |
| 12                                | 8273        | 9/30/2008 | ND         | 0.0399     | ND         | ND         | ND           | 0.0020     | 0.0174     | ND        | ND         | 3.6065     | 0.0014     | ND          | 0.0026     | ND         | 23.8633     | 274.0000    |
| 13                                | 8274        | 9/30/2008 | ND         | 0.0807     | ND         | ND         | ND           | ND         | 0.0173     | ND        | ND         | 4.2635     | ND         | ND          | ND         | ND         | 16.3658     | 152.0000    |
| 14                                | 8275        | 9/30/2008 | ND         | 0.1050     | ND         | ND         | ND           | 0.0009     | 0.0054     | ND        | ND         | 24.8128    | ND         | ND          | ND         | ND         | 62.3652     | 356.0000    |
| 15                                | 8276        | 9/30/2008 | ND         | 0.0176     | ND         | ND         | ND           | 0.0009     | 0.0169     | ND        | ND         | 47.8944    | ND         | ND          | ND         | 0.0055     | 165.0030    | 586.0000    |
| 16                                | 8277        | 9/30/2008 | ND         | 0.0835     | ND         | ND         | ND           | 0.0012     | 0.0383     | ND        | ND         | 66.7492    | 0.0009     | ND          | ND         | ND         | 57.8397     | 589.0000    |
| 17                                | 8278        | 10/2/2008 | 0.0030     | 0.2764     | ND         | ND         | ND           | 0.0017     | 0.1763     | ND        | ND         | 455.9753   | 0.0026     | ND          | ND         | ND         | 40.8743     | 1723.0000   |
| 18                                | 8321        | 11/4/2008 | 0.0059     | 0.0516     | ND         | ND         | ND           | 0.0006     | 0.0356     | ND        | ND         | 118.0573   | 0.0011     | 17.2388     | ND         | ND         | 183.8791    | 953.0000    |
| Test Count that Exceeded Standard |             |           | 1          | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 1           | 0          | 0          | 0           | 0           |

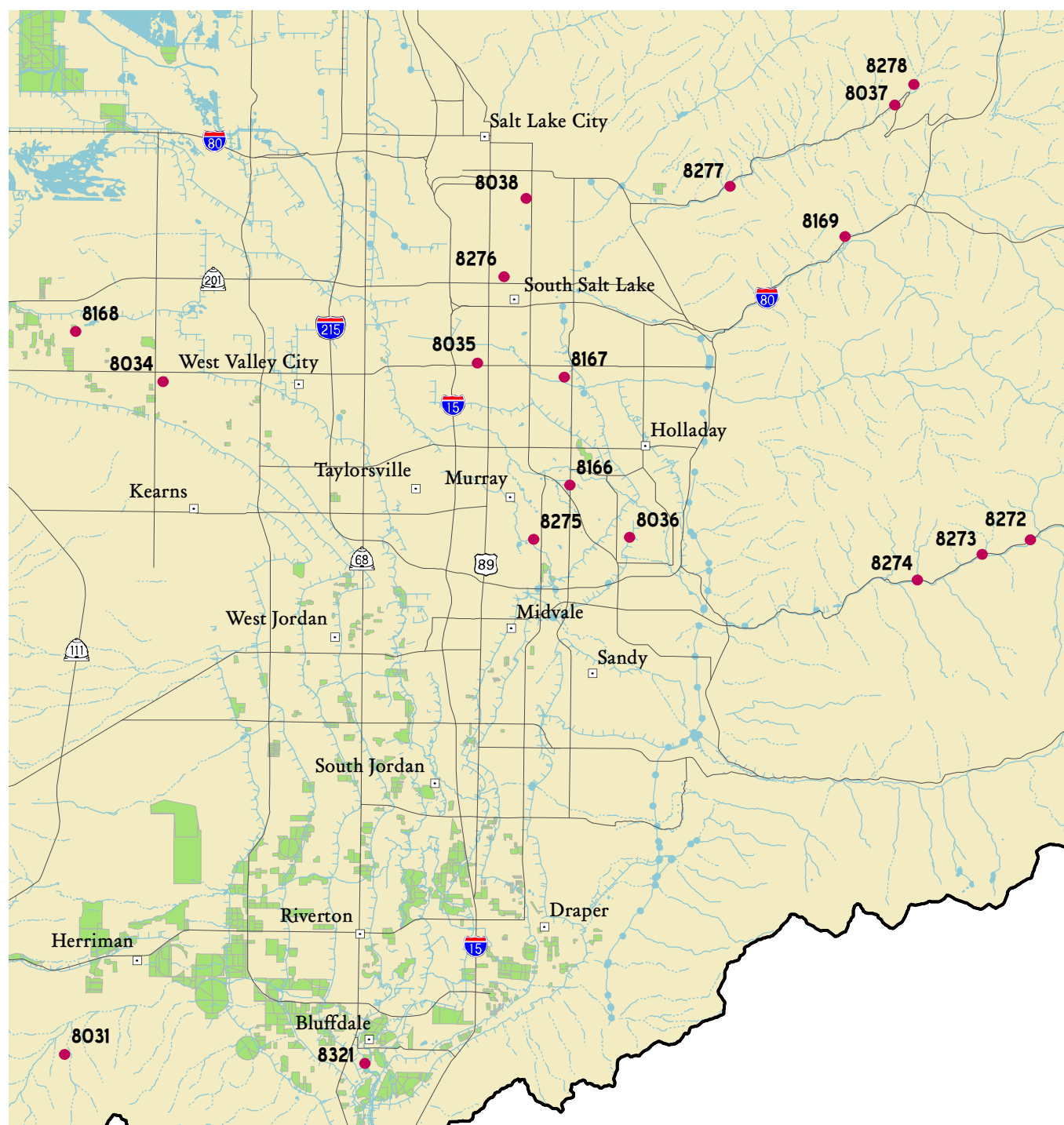
ND - Not Detected



| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8031      | 6/13/2008   | ND         | ND         | 313.7061   | 0.0185     | ND        | ND         | 518.7000     | 0.0003     | 7.9000  | 17.0895    | 128.7711    | 866.0000    | 0.0309     |
| 2                                   | 8034      | 6/13/2008   | ND         | ND         | 257.7655   | 0.0200     | ND        | ND         | 416.2000     | ND         | 7.7300  | 17.2944    | 266.4126    | 1128.0000   | 0.0125     |
| 3                                   | 8035      | 6/13/2008   | ND         | ND         | 46.4762    | 0.0052     | ND        | ND         | 338.1000     | 0.0005     | 7.7800  | 6.1130     | 120.6542    | 448.0000    | 0.0038     |
| 4                                   | 8036      | 6/13/2008   | ND         | ND         | 99.3475    | 0.0113     | ND        | ND         | 282.8000     | 0.0048     | 7.8600  | 3.9701     | 79.2420     | 447.0000    | 0.0205     |
| 5                                   | 8037      | 6/13/2008   | ND         | ND         | 529.4777   | 0.0409     | ND        | ND         | 568.2000     | 0.0047     | 7.4600  | 5.4970     | 60.9747     | 1239.0000   | 0.0207     |
| 6                                   | 8038      | 6/13/2008   | ND         | ND         | 159.5154   | 0.0145     | ND        | ND         | 568.5000     | 0.0007     | 7.5500  | 7.6794     | 171.7080    | 808.0000    | 0.0045     |
| 7                                   | 8166      | 8/20/2008   | ND         | ND         | 470.9664   | 0.0103     | ND        | 0.0264     | 730.4000     | 0.0372     | 7.6900  | 10.7278    | 225.5273    | 1525.0000   | 0.0245     |
| 8                                   | 8167      | 8/20/2008   | ND         | ND         | 84.3095    | 0.0164     | ND        | ND         | 483.6000     | 0.0030     | 7.3300  | 7.1901     | 164.3488    | 624.0000    | 1.0500     |
| 9                                   | 8168      | 8/20/2008   | ND         | ND         | 280.9765   | 0.0085     | ND        | ND         | 559.6000     | 0.0025     | 7.5900  | 26.7918    | 214.2763    | 1193.0000   | 0.0544     |
| 10                                  | 8169      | 8/20/2008   | ND         | ND         | 14.7374    | 0.0119     | ND        | ND         | 459.5000     | ND         | 7.1900  | 7.4021     | 65.1633     | 525.0000    | 0.0210     |
| 11                                  | 8272      | 9/30/2008   | ND         | ND         | ND         | 0.0174     | ND        | ND         | 225.3000     | 0.0004     | 7.6800  | 5.0531     | 12.7317     | 248.0000    | 0.0052     |
| 12                                  | 8273      | 9/30/2008   | ND         | ND         | ND         | 0.0174     | ND        | ND         | 252.1000     | ND         | 7.5800  | 3.3543     | 23.8633     | 274.0000    | 0.0668     |
| 13                                  | 8274      | 9/30/2008   | ND         | ND         | ND         | 0.0173     | ND        | ND         | 127.8000     | 0.0003     | 8.1100  | 3.1477     | 16.3658     | 152.0000    | 0.0035     |
| 14                                  | 8275      | 9/30/2008   | ND         | ND         | 77.6795    | 0.0054     | ND        | ND         | 256.9000     | 0.0005     | 7.8500  | 4.6370     | 62.3652     | 356.0000    | 0.0089     |
| 15                                  | 8276      | 9/30/2008   | ND         | ND         | 58.9214    | 0.0169     | ND        | ND         | 429.6000     | 0.0009     | 7.4200  | 8.6847     | 165.0030    | 586.0000    | 0.0072     |
| 16                                  | 8277      | 9/30/2008   | ND         | ND         | 116.7668   | 0.0383     | ND        | 0.0186     | 461.9000     | 0.0006     | 7.3200  | 7.0066     | 57.8397     | 589.0000    | 0.0127     |
| 17                                  | 8278      | 10/2/2008   | ND         | ND         | 764.9162   | 0.1763     | ND        | 0.0169     | 620.9000     | 0.0040     | 7.1500  | 8.2750     | 40.8743     | 1723.0000   | 0.0447     |
| 18                                  | 8321      | 11/4/2008   | ND         | ND         | 243.4483   | 0.0356     | ND        | ND         | 591.2000     | 0.0017     | 7.3800  | 22.6416    | 183.8791    | 953.0000    | 0.0553     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 6          | 0          | 0         | 0          | 18           | 0          | 0       | 0          | 1           | 17          | 0          |

ND - Not Detected

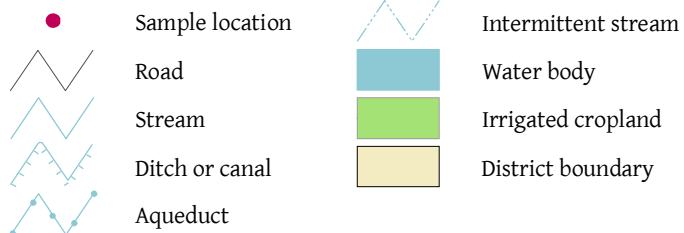
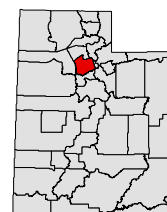
Map 9. Salt Lake County District



Map Scale 1:205,531 (1 inch = 3.2 miles)



District Location



Shambip District

General:

General Sample Information

|                                | Sample No | Collected Date | Coliform | Ecoli | Temperature       | EC   | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head   | Material | Casing Condition | Cullinary                           | Irriga-tion                         | Indust-rial              | Lands-cape               | Natural                             | Drai-nage                | Other                    |
|--------------------------------|-----------|----------------|----------|-------|-------------------|------|----------|-----------|---------------|-------------|----------------|-------------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| 1                              | 8318      | 10/21/2008     | POS      | ND    | 60.8 F (16.0 C)   | 1011 | 577.0    | 2.200     | 323.8         | Spring      | Clean          | Soil        | Earth    | Open             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8319      | 10/21/2008     | ND       | ND    | 52.7 F (11.5 C)   | 1446 | 820.0    | 2.600     | 469.8         | Well        | Clean          | Pit Masonry | Steel    | Open             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |           |                | 1        | 0     | ND - Not Detected |      |          |           |               |             |                |             |          |                  |                                     |                                     |                          |                          |                                     |                          |                          |

Irrigation:

Irrigation Standards

|                                   | Sample No | Tested Date | 5 AI mg/L | 0.5;1.0;2.0; B mg/L | .1 Be mg/L | 100000 Ca mg/L | 71;355 Cl mg/L | 1 Co mg/L | 1000 CO3 mg/L | 1 Cr mg/L | 0.2 Cu mg/L | 2 F mg/L | 5 Fe mg/L | 73.2;152.5 HCO3 mg/L | 10000 K mg/L | 2.5 Li mg/L | 100000 Mg mg/L |
|-----------------------------------|-----------|-------------|-----------|---------------------|------------|----------------|----------------|-----------|---------------|-----------|-------------|----------|-----------|----------------------|--------------|-------------|----------------|
| 1                                 | 8318      | 10/23/2008  | ND        | 0.0698              | ND         | 98.5107        | 169.8529       | ND        | ND            | 0.0005    | 0.0313      | ND       | ND        | 230.5100             | 1.9195       | 0.0276      | 18.8160        |
| 2                                 | 8319      | 10/23/2008  | ND        | 0.1327              | ND         | 134.2840       | 279.2144       | ND        | ND            | 0.0009    | 0.0211      | ND       | ND        | 280.0660             | 1.3409       | 0.0351      | 32.5464        |
| Test Count that Exceeded Standard |           |             | 0         | 0                   | 0          | 0              | 2              | 0         | 0             | 0         | 0           | 0        | 0         | 2                    | 0            | 0           | 0              |

ND - Not Detected

Irrigation Standards Continues

|                                    | Sample No | Tested Date | .2 Mn mg/L | .01 Mo mg/L | 70;230 Na mg/L | .2 Ni mg/L | 5 Pb mg/L | 10000 PO4 mg/L | 3;9 SAR meq/L | .02 Se mg/L | 151;451;13 TDS mg/L | .1 V mg/L | 2 Zn mg/L |
|------------------------------------|-----------|-------------|------------|-------------|----------------|------------|-----------|----------------|---------------|-------------|---------------------|-----------|-----------|
| 1                                  | 8318      | 10/23/2008  | 0.0066     | 0.0009      | 92.2591        | 0.0009     | ND        | ND             | 2.2000        | ND          | 577.0000            | ND        | 0.0077    |
| 2                                  | 8319      | 10/23/2008  | 0.0019     | 0.0006      | 130.6924       | 0.0014     | ND        | ND             | 2.6000        | ND          | 820.0000            | 0.0026    | 0.0099    |
| Test Count that Exceeded Standard: |           |             | 0          | 0           | 2              | 0          | 0         | 0              | 0             | 0           | 2                   | 0         | 0         |

ND - Not Detected

Livestock:

Livestock Standards

|                                   | Sample No | Tested Date | 5 AI mg/L | 0.2 As mg/L | 5 B mg/L | .1 Be mg/L | 0.05 Cd mg/L | 1 Co mg/L | 1 Cr mg/L | .5 Cu mg/L | 2 F mg/L | 10 Hg ug/L | 440 NO3 mg/L | .1 Pb mg/L | 5.5-8.3 pH - | .05 Se mg/L | 167;333 SO4 mg/L | 1000;3000; TDS mg/L | 25 Zn mg/L |
|-----------------------------------|-----------|-------------|-----------|-------------|----------|------------|--------------|-----------|-----------|------------|----------|------------|--------------|------------|--------------|-------------|------------------|---------------------|------------|
| 1                                 | 8318      | 10/23/2008  | ND        | ND          | 0.0698   | ND         | ND           | ND        | 0.0005    | 0.0313     | ND       | ND         | ND           | ND         | 7.3700       | ND          | 70.1732          | 577.0000            | 0.0077     |
| 2                                 | 8319      | 10/23/2008  | ND        | 0.0028      | 0.1327   | ND         | ND           | ND        | 0.0009    | 0.0211     | ND       | ND         | ND           | ND         | 7.6400       | ND          | 86.0036          | 820.0000            | 0.0099     |
| Test Count that Exceeded Standard |           |             | 0         | 0           | 0        | 0          | 0            | 0         | 0         | 0          | 0        | 0          | 0            | 0          | 0            | 0           | 0                | 0                   | 0          |

ND - Not Detected

## Culinary:

| Drinking Water Primary Standards: |             |            | 0.01       | 2          | 0.004      | 0.005        | 25         | 0.1        | 1.3       | 4          | 2          | 10000      | 1000        | 44.3       | .015       | .05         | 500         | 2000     |
|-----------------------------------|-------------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|----------|
| Sample No                         | Tested Date | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |          |
| 1                                 | 8032        | 6/13/2008  | ND         | 0.0725     | ND         | ND           | ND         | 0.0014     | 0.0112    | ND         | ND         | 124.2421   | 0.0009      | ND         | ND         | ND          | 81.8439     | 626.0000 |
| 2                                 | 8033        | 6/13/2008  | 0.0020     | 0.0707     | ND         | ND           | ND         | 0.0035     | 0.0170    | ND         | ND         | 214.4682   | 0.0010      | ND         | ND         | ND          | 131.0005    | 892.0000 |
| Test Count that Exceeded Standard |             |            | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0           | 0        |

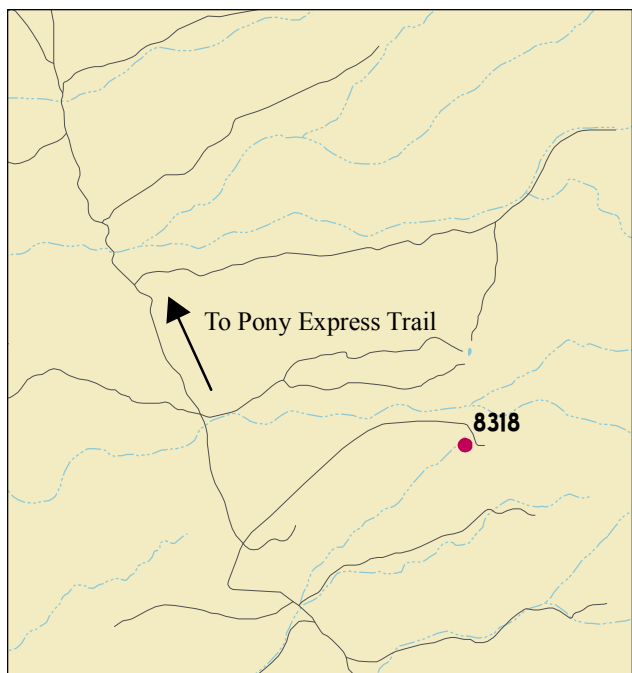
ND - Not Detected

| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8318      | 10/23/2008  | ND         | ND         | 169.8529   | 0.0313     | ND        | ND         | 323.8000     | 0.0066     | 7.3700  | 5.9821     | 70.1732     | 577.0000    | 0.0077     |
| 2                                   | 8319      | 10/23/2008  | ND         | ND         | 279.2144   | 0.0211     | ND        | ND         | 469.8000     | 0.0019     | 7.6400  | 8.8957     | 86.0036     | 820.0000    | 0.0099     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 1          | 0          | 0         | 0          | 2            | 0          | 0       | 0          | 0           | 2           | 0          |

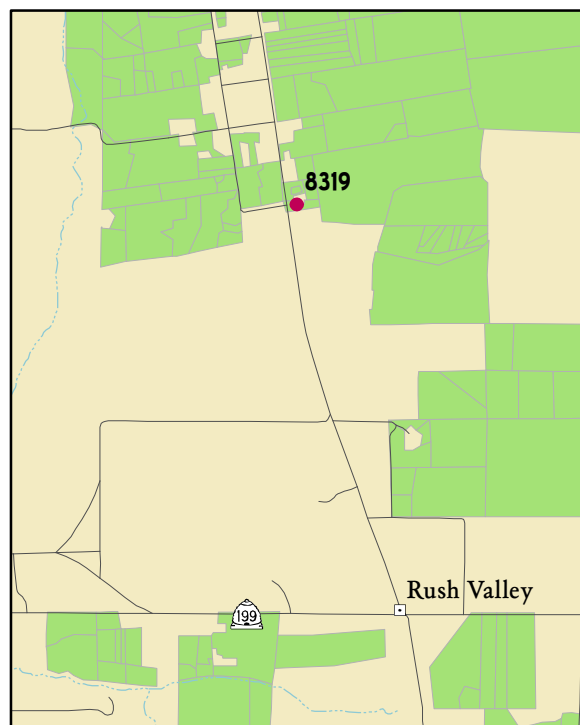
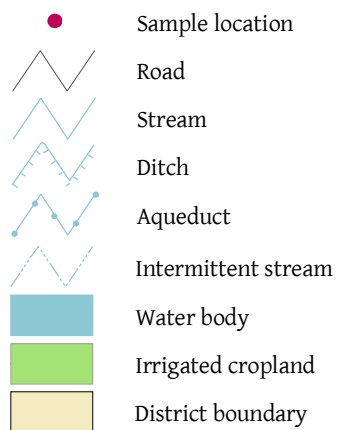
ND - Not Detected



Map 10. Shambip District

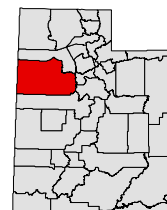


Map Scale 1:50,688 (1 inch = 0.8 miles)



Map Scale 1:31,680 (1 inch = 0.5 miles)

District Location



**General:**

| Sample No                      | Collected Date | Coliform   | Ecoli | Temperature       | EC              | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head | Material | Casing Condition | Cullinary | Irrigation               | Industrial                          | Landscape                | Natural                  | Drainage                 | Other                    |                          |
|--------------------------------|----------------|------------|-------|-------------------|-----------------|----------|-----------|---------------|-------------|----------------|-----------|----------|------------------|-----------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8322           | 10/30/2008 | POS   | POS               | 61.7 F (16.5 C) | 657      | 391.0     | 0.700         | 265.0       | Well           | Clean     | Covered  | PVC              | Open      | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                | 1          | 1     | ND - Not Detected |                 |          |           |               |             |                |           |          |                  |           |                          |                                     |                          |                          |                          |                          |                          |

**Irrigation:**

| Irrigation Standards              |             |            | 5         | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1           | 1000       | 1          | 0.2       | 2          | 5            | 73.2;152.5 | 10000      | 2.5        | 100000  |
|-----------------------------------|-------------|------------|-----------|--------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|------------|------------|------------|---------|
| Sample No                         | Tested Date | Al<br>mg/L | B<br>mg/L | Be<br>mg/L   | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L  | Li<br>mg/L | Mg<br>mg/L |         |
| 1                                 | 8322        | 11/4/2008  | ND        | 0.1429       | ND         | 67.3427    | 45.5529    | ND          | ND         | 0.0019     | 0.0191    | ND         | 0.0106       | 195.5350   | 13.6053    | 0.0409     | 23.4468 |
| Test Count that Exceeded Standard |             |            | 0         | 0            | 0          | 0          | 0          | 0           | 0          | 0          | 0         | 0          | 0            | 1          | 0          | 0          | 0       |
| ND - Not Detected                 |             |            |           |              |            |            |            |             |            |            |           |            |              |            |            |            |         |

| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8322      | 11/4/2008   | 0.0091     | 0.0046     | 27.5575    | 0.0018     | ND         | ND          | 0.7000       | ND         | 391.0000    | 0.0067    | 0.0093     |
| Test Count that Exceeded Standard: |           |             | 0          | 0          | 0          | 0          | 0          | 0           | 0            | 0          | 1           | 0         | 0          |
| ND - Not Detected                  |           |             |            |            |            |            |            |             |              |            |             |           |            |

**Livestock:**

[illegible]

**Culinary:**

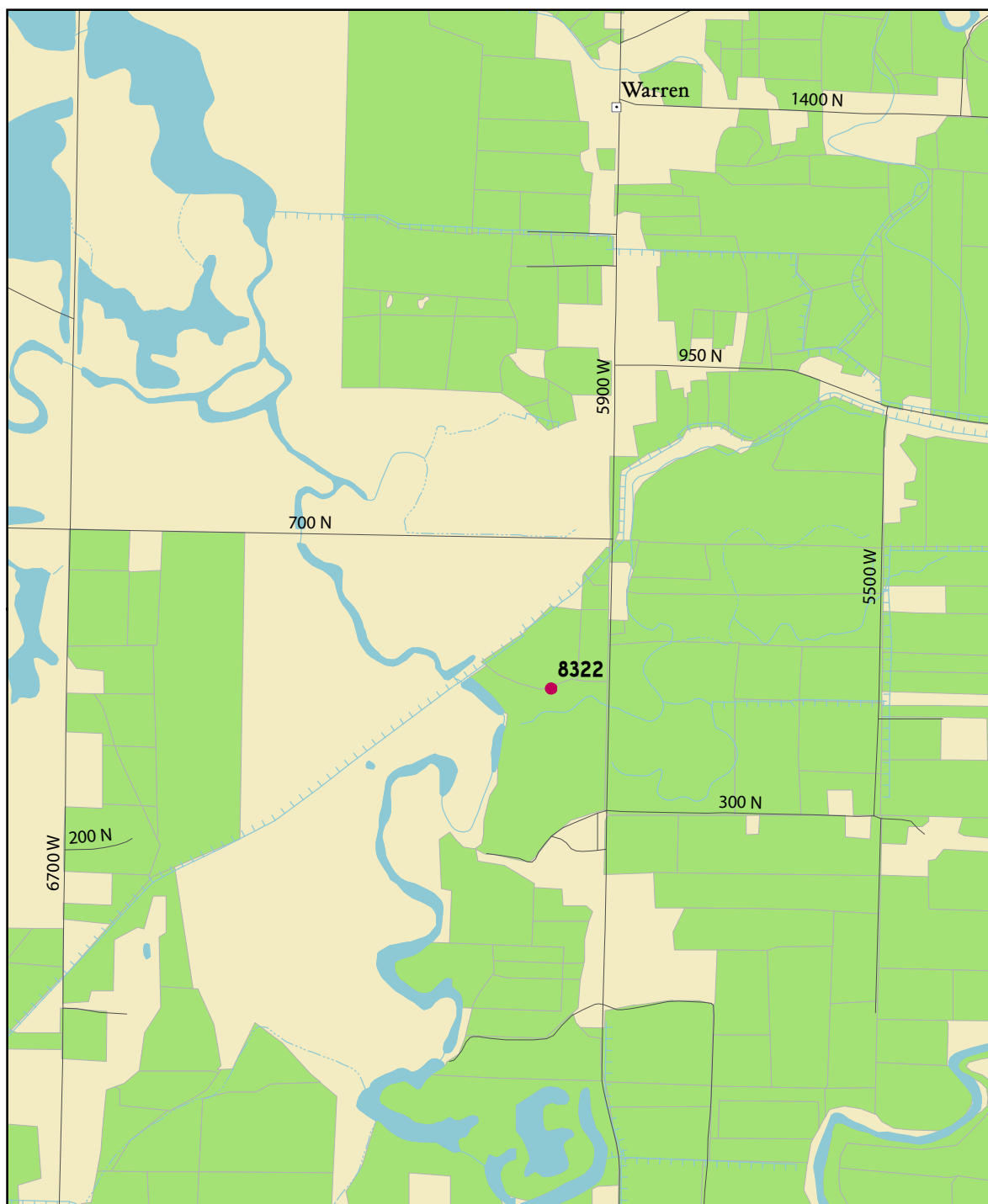
| Drinking Water Primary Standards |                                   |             | 0.01       | 2          | 0.004      | 0.005      | 25           | 0.1        | 1.3        | 4         | 2          | 10000      | 1000       | 44.3        | .015       | .05        | 500         | 2000        |          |
|----------------------------------|-----------------------------------|-------------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|----------|
|                                  | Sample No                         | Tested Date | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |          |
|                                  | 1                                 | 8322        | 11/4/2008  | 0.0081     | 0.1069     | ND         | ND           | ND         | 0.0019     | 0.0191    | ND         | ND         | 27.5575    | 0.0018      | 76.5445    | ND         | ND          | 35.0770     | 391.0000 |
|                                  | Test Count that Exceeded Standard |             |            | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 1           | 0          | 0          | 0           | 0           |          |

ND - Not Detected

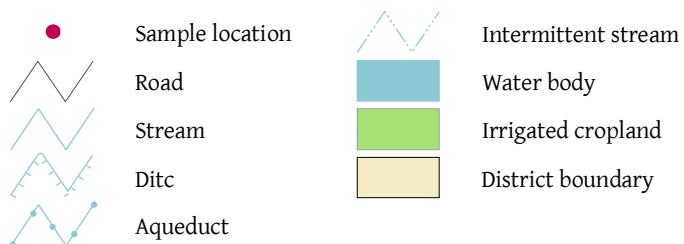
| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8322      | 11/4/2008   | ND         | ND         | 45.5529    | 0.0191     | ND        | 0.0106     | 265.0000     | 0.0091     | 7.8400  | 5.9929     | 35.0770     | 391.0000    | 0.0093     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 0          | 0          | 0         | 0          | 1            | 0          | 0       | 0          | 0           | 1           | 0          |

ND - Not Detected

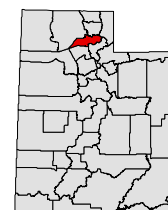
Map 11. Weber County District



Map Scale 1:19,008 (1 inch = 0.3 miles)



District Location





## **UACD Zone 3 (Wasatch County and most of Summit and Utah counties)**

DW Thirty (30) sites were sampled in four of the five Conservation Districts in Zone 3 during the spring, summer, and fall of 2008. These include the number of samples in the following districts: three (3) in Kamas Valley, eight (8) in Summit, fourteen (14) in Timp-Nebo, and five (5) in Wasatch districts (no samples were collected in Alpine District).

The Statistical Report below shows a summary of the total number of chemical tests collected (Test Count) for each district in Zone 3. The next four columns summarize the number of tests which exceeded the standards for either Primary Drinking Water (Primary), Secondary Drinking Water (DW Secondary), Irrigation, or Livestock.

### **Ground Water UACD Zone No 3 Statistical Report For the Samples Collected Between: 1/1/2008 And 11/18/2008**

| District Name       | Sample Count | Test Count  | Test Count Which Result Exceeded Standards |              |            |           |
|---------------------|--------------|-------------|--|--------------|------------|-----------|
|                     |              |             | DW Primary                                 | DW Secondary | Irrigation | Livestock |
| Kamas Valley        | 3            | 120         | 0  | 6            | 6          | 0         |
| Summit              | 8            | 320         | 0  | 16           | 16         | 0         |
| Timp-Nebo           | 14           | 560         | 9  | 42           | 52         | 8         |
| Wasatch             | 5            | 200         | 2  | 6            | 9          | 2         |
| <b>Zone Totals:</b> | <b>30</b>    | <b>1200</b> | <b>11</b>                                  | <b>70</b>    | <b>83</b>  | <b>10</b> |

Detailed tables follow covering the above water quality categories - General, Irrigation, Livestock, and Culinary (which includes Primary Drinking Water Standards and Secondary Drinking Water Standards) for each district along with a map(s). For the Irrigation, Livestock, and Culinary tables the first row lists the explicit standard for each element or compound (column). The standards for irrigation and livestock originated from the Water quality for agriculture 29 Revision 1, published by the Food and Agriculture Organization of the United Nations. The drinking water primary and secondary standards are from the State of Utah's water quality standards. Below the standards are the column headings (expressed as the chemical abbreviation) for each element or compound tested. Units used in measuring the concentrations of each element or compound are found below each abbreviation. Each row of the table is a single sample identified with a sample number. This sample number shows the sampling location on the map(s) located after the chemistry tables. Highlighted sample results show samples that exceed a standard for that element or compound. Totals at the bottom of each table show how many samples in each column exceeded the standard for that column. The value "ND" indicates that a particular element or compound was "Not Detected" for a given sample.

Kamas Valley District

General:

General Sample Information

| Sample No                      | Collected Date | Coliform  | Ecoli | Temperature       | EC              | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head | Material | Casing Condition | Cullinary | Irrigation                          | Industrial                          | Landscape                | Natural                  | Drainage                 | Other                    |
|--------------------------------|----------------|-----------|-------|-------------------|-----------------|----------|-----------|---------------|-------------|----------------|-----------|----------|------------------|-----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8178           | 8/12/2008 | ND    | ND                | 48.2 F (9.0 C)  | 643      | 371.0     | 0.300         | 337.4       | Well           | Clean     | Covered  | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8179           | 8/12/2008 | ND    | ND                | 76.5 F (24.7 C) | 580      | 353.0     | 0.300         | 322.9       | Well           | Vegetated | Soil     | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3                              | 8180           | 8/12/2008 | ND    | ND                | 51.6 F (10.9 C) | 430      | 230.0     | 0.200         | 207.3       | Well           | Vegetated | Natural  | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                | 0         | 0     | ND - Not Detected |                 |          |           |               |             |                |           |          |                  |           |                                     |                                     |                          |                          |                          |                          |

Irrigation:

Irrigation Standards

| Sample No                         | Tested Date | Al mg/L   | B mg/L | Be mg/L | Ca mg/L | Cl mg/L  | Co mg/L | CO3 mg/L | Cr mg/L | Cu mg/L | F mg/L | Fe mg/L | HCO3 mg/L | K mg/L | Li mg/L | Mg mg/L |
|-----------------------------------|-------------|-----------|--------|---------|---------|----------|---------|----------|---------|---------|--------|---------|-----------|--------|---------|---------|
| 1                                 | 8178        | 8/20/2008 | ND     | 0.0341  | ND      | 105.4281 | ND      | ND       | ND      | 0.0329  | ND     | ND      | 371.7740  | 0.6886 | 0.0063  | 17.9120 |
| 2                                 | 8179        | 8/20/2008 | ND     | 0.0278  | ND      | 102.3412 | 13.8873 | ND       | ND      | 0.0231  | ND     | ND      | 364.2910  | 0.6289 | 0.0057  | 16.2639 |
| 3                                 | 8180        | 8/20/2008 | ND     | 0.0174  | ND      | 60.6912  | 27.4759 | ND       | ND      | 0.0099  | ND     | ND      | 211.4750  | 1.0686 | 0.0050  | 13.4969 |
| Test Count that Exceeded Standard |             | 0         | 0      | 0       | 0       | 0        | 0       | 0        | 0       | 0       | 0      | 0       | 3         | 0      | 0       | 0       |

ND - Not Detected

Irrigation Standards Continues

| Sample No                          | Tested Date | Mn mg/L   | Mo mg/L | Na mg/L | Ni mg/L | Pb mg/L | PO4 mg/L | SAR meq/L | Se mg/L | TDS mg/L | V mg/L   | Zn mg/L |
|------------------------------------|-------------|-----------|---------|---------|---------|---------|----------|-----------|---------|----------|----------|---------|
| 1                                  | 8178        | 8/20/2008 | 0.0236  | 0.0026  | 12.5608 | 0.0024  | 0.0019   | ND        | 0.3000  | ND       | 371.0000 | 0.0962  |
| 2                                  | 8179        | 8/20/2008 | 0.0004  | 0.0007  | 11.6437 | 0.0009  | ND       | ND        | 0.3000  | ND       | 353.0000 | 0.0243  |
| 3                                  | 8180        | 8/20/2008 | 0.0061  | ND      | 7.6272  | 0.0007  | ND       | ND        | 0.2000  | ND       | 230.0000 | 0.2488  |
| Test Count that Exceeded Standard: |             | 0         | 0       | 0       | 0       | 0       | 0        | 0         | 0       | 3        | 0        | 0       |

ND - Not Detected

## Livestock:

| Livestock Standards               |             | 5          | 0.2        | 5         | .1         | 0.05       | 1          | 1          | .5         | 2         | 10         | 440         | .1         | 5.5-8.3 | .05        | 167;333     | 1000;3000;  | 25         |
|-----------------------------------|-------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|
| Sample No                         | Tested Date | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                 | 8178        | 8/20/2008  | ND         | ND        | 0.0341     | ND         | ND         | ND         | 0.0329     | ND        | ND         | ND          | 0.0019     | 7.3600  | ND         | 36.1500     | 371.0000    | 0.0962     |
| 2                                 | 8179        | 8/20/2008  | ND         | ND        | 0.0278     | ND         | ND         | ND         | 0.0231     | ND        | ND         | ND          | ND         | 7.6300  | ND         | 18.9932     | 353.0000    | 0.0243     |
| 3                                 | 8180        | 8/20/2008  | ND         | ND        | 0.0174     | ND         | ND         | ND         | 0.0099     | ND        | ND         | ND          | ND         | 7.8100  | ND         | ND          | 230.0000    | 0.2488     |
| Test Count that Exceeded Standard |             | 0          | 0          | 0         | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0           | 0          | 0       | 0          | 0           | 0           | 0          |

ND - Not Detected

## Culinary:

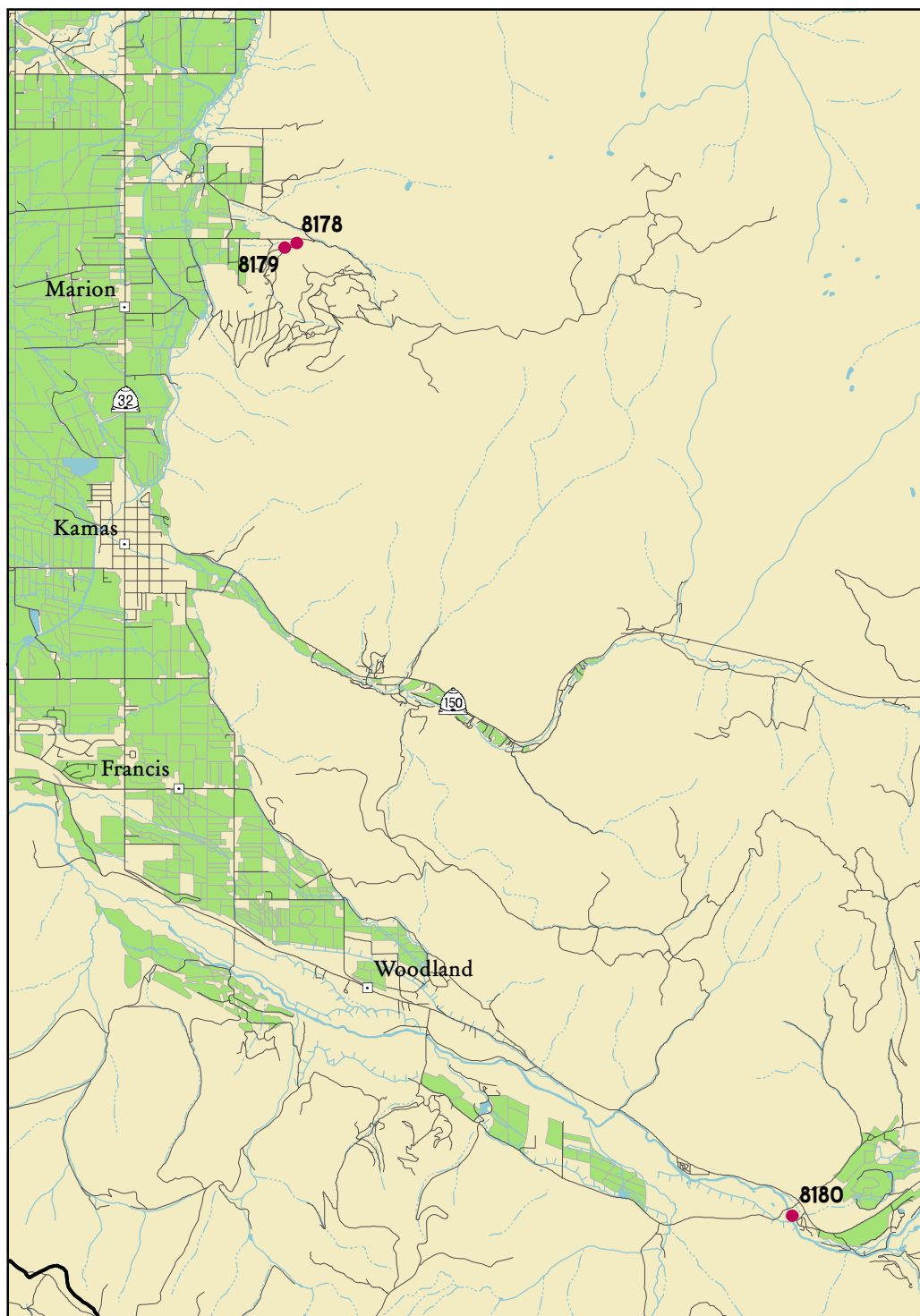
| Drinking Water Primary Standard   |             | 0.01       | 2          | 0.004      | 0.005      | 25           | 0.1        | 1.3        | 4         | 2          | 10000      | 1000       | 44.3        | .015       | .05        | 500         | 2000        |
|-----------------------------------|-------------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|
| Sample No                         | Tested Date | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |
| 1                                 | 8178        | 8/20/2008  | ND         | 0.0388     | ND         | ND           | ND         | 0.0329     | ND        | ND         | 12.5608    | 0.0024     | ND          | 0.0019     | ND         | 36.1500     | 371.0000    |
| 2                                 | 8179        | 8/20/2008  | ND         | 0.0384     | ND         | ND           | ND         | 0.0231     | ND        | ND         | 11.6437    | 0.0009     | ND          | ND         | ND         | 18.9932     | 353.0000    |
| 3                                 | 8180        | 8/20/2008  | ND         | 0.0797     | ND         | ND           | ND         | 0.0099     | ND        | ND         | 7.6272     | 0.0007     | ND          | ND         | ND         | ND          | 230.0000    |
| Test Count that Exceeded Standard |             | 0          | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0           |

ND - Not Detected





| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8178      | 8/20/2008   | ND         | ND         | ND         | 0.0329     | ND        | ND         | 337.4000     | 0.0236     | 7.3600  | 5.7080     | 36.1500     | 371.0000    | 0.0962     |
| 2                                   | 8179      | 8/20/2008   | ND         | ND         | 13.8873    | 0.0231     | ND        | ND         | 322.9000     | 0.0004     | 7.6300  | 5.1204     | 18.9932     | 353.0000    | 0.0243     |
| 3                                   | 8180      | 8/20/2008   | ND         | ND         | 27.4759    | 0.0099     | ND        | ND         | 207.3000     | 0.0061     | 7.8100  | 5.3669     | ND          | 230.0000    | 0.2488     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 0          | 0          | 0         | 0          | 3            | 0          | 0       | 0          | 0           | 3           | 0          |





ND - Not Detected

Map 12. Kamas Valley District



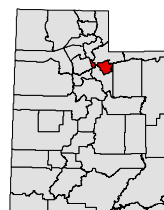
Map Scale 1:100,000 (1 inch = 1.6 miles)

- Sample location
-  Road
-  Stream
-  Ditch or canal
-  Aqueduct

-  Intermittent stream
-  Water body
-  Irrigated cropland
-  District boundary



District Location





# Summit District

## General:

### General Sample Information

|                                | Sample No | Collected Date | Coliform | Ecoli | Temperature       | EC  | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site  | Site Condition | Well Head    | Material | Casing Condition | Cullinary                           | Irrigation                          | Industrial               | Landscape                | Natural                             | Drainage                 | Other                    |
|--------------------------------|-----------|----------------|----------|-------|-------------------|-----|----------|-----------|---------------|--------------|----------------|--------------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| 1                              | 8170      | 8/12/2008      | ND       | ND    | 44.2 F (6.8 C)    | 504 | 288.0    | 0.100     | 257.9         | Well         | Clean          | Pit Masonry  | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8171      | 8/12/2008      | POS      | ND    | 56.7 F (13.7 C)   | 362 | 205.0    | 0.100     | 194.4         | Spring       | Clean          | Covered      | PVC      | Open             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 3                              | 8172      | 8/12/2008      | POS      | ND    | 46.4 F (8.0 C)    | 366 | 206.0    | 0.100     | 196.9         | Stream       | Vegetated      | Natural      | Earth    | Open             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4                              | 8173      | 8/12/2008      | POS      | ND    | 46.2 F (7.9 C)    | 364 | 206.0    | 0.100     | 198.1         | Spring       | Clean          | Pit Concrete | Concrete | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 5                              | 8174      | 8/12/2008      | POS      | POS   | 62.4 F (16.9 C)   | 358 | 206.0    | 0.100     | 197.9         | Flowing Well | Clean          | Soil         | Concrete | Open             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 6                              | 8175      | 8/12/2008      | POS      | POS   | 46.0 F (7.8 C)    | 364 | 206.0    | 0.100     | 198.7         | Spring       | Vegetated      | Pit Concrete | Concrete | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 7                              | 8176      | 8/12/2008      | ND       | ND    | 44.2 F (6.8 C)    | 532 | 305.0    | 0.100     | 287.0         | Well         | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 8                              | 8177      | 8/12/2008      | ND       | ND    | 48.6 F (9.2 C)    | 493 | 296.0    | 0.100     | 270.9         | Well         | Vegetated      | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |           |                | 5        | 2     | ND - Not Detected |     |          |           |               |              |                |              |          |                  |                                     |                                     |                          |                          |                                     |                          |                          |

## Irrigation:

### Irrigation Standards

|                                   | Sample No | Tested Date | 5 AI mg/L | 0.5;1.0;2.0; B mg/L | .1 Be mg/L | 100000 Ca mg/L | 71;355 Cl mg/L | 1 Co mg/L | 1000 CO3 mg/L | 1 Cr mg/L | 0.2 Cu mg/L | 2 F mg/L | 5 Fe mg/L | 73.2;152.5 HCO3 mg/L | 10000 K mg/L | 2.5 Li mg/L | 100000 Mg mg/L |
|-----------------------------------|-----------|-------------|-----------|---------------------|------------|----------------|----------------|-----------|---------------|-----------|-------------|----------|-----------|----------------------|--------------|-------------|----------------|
| 1                                 | 8170      | 8/20/2008   | ND        | 0.0174              | ND         | 55.6163        | ND             | ND        | ND            | ND        | 0.0182      | ND       | 0.0791    | 239.5920             | 1.0507       | 0.0061      | 28.8461        |
| 2                                 | 8171      | 8/20/2008   | ND        | 0.0117              | ND         | 49.7240        | ND             | ND        | ND            | ND        | 0.0225      | ND       | ND        | 227.8010             | 0.6767       | ND          | 17.0124        |
| 3                                 | 8172      | 8/20/2008   | ND        | 0.0109              | ND         | 50.2680        | ND             | ND        | ND            | ND        | 0.0111      | ND       | ND        | 227.1520             | 0.6838       | ND          | 17.2779        |
| 4                                 | 8173      | 8/20/2008   | ND        | 0.0115              | ND         | 50.6022        | ND             | ND        | ND            | ND        | 0.0083      | ND       | ND        | 227.8170             | 0.6768       | ND          | 17.3726        |
| 5                                 | 8174      | 8/20/2008   | ND        | 0.0112              | ND         | 50.8079        | ND             | ND        | ND            | ND        | 0.0190      | ND       | ND        | 227.1270             | 0.6545       | ND          | 17.2064        |
| 6                                 | 8175      | 8/20/2008   | ND        | 0.0111              | ND         | 50.7767        | ND             | ND        | ND            | ND        | 0.0103      | ND       | 0.0172    | 226.7570             | 0.6426       | ND          | 17.4088        |
| 7                                 | 8176      | 8/20/2008   | ND        | 0.0150              | ND         | 72.7662        | ND             | ND        | ND            | ND        | 0.0167      | ND       | ND        | 276.9260             | 0.7386       | 0.0038      | 25.5101        |
| 8                                 | 8177      | 8/20/2008   | ND        | 0.0147              | ND         | 71.1605        | ND             | ND        | ND            | 0.0007    | 0.0280      | ND       | ND        | 245.0170             | 0.6760       | 0.0037      | 22.5788        |
| Test Count that Exceeded Standard |           |             | 0         | 0                   | 0          | 0              | 0              | 0         | 0             | 0         | 0           | 0        | 0         | 8                    | 0            | 0           | 0              |

ND - Not Detected

### Irrigation Standards Continues

|                                    | Sample No | Tested Date | .2<br>Mn<br>mg/L | .01<br>Mo<br>mg/L | 70;230<br>Na<br>mg/L | .2<br>Ni<br>mg/L | 5<br>Pb<br>mg/L | 10000<br>PO4<br>mg/L | 3;9<br>SAR<br>meq/L | .02<br>Se<br>mg/L | 151;451;13<br>TDS<br>mg/L | .1<br>V<br>mg/L | 2<br>Zn<br>mg/L |
|------------------------------------|-----------|-------------|------------------|-------------------|----------------------|------------------|-----------------|----------------------|---------------------|-------------------|---------------------------|-----------------|-----------------|
| 1                                  | 8170      | 8/20/2008   | 0.0359           | 0.0013            | 4.0665               | 0.0016           | ND              | ND                   | 0.1000              | ND                | 288.0000                  | ND              | 0.0205          |
| 2                                  | 8171      | 8/20/2008   | 0.0005           | ND                | 2.4211               | 0.0007           | ND              | ND                   | 0.1000              | ND                | 205.0000                  | ND              | 0.0195          |
| 3                                  | 8172      | 8/20/2008   | 0.0005           | ND                | 2.6935               | ND               | ND              | ND                   | 0.1000              | ND                | 206.0000                  | ND              | 0.0063          |
| 4                                  | 8173      | 8/20/2008   | 0.0005           | ND                | 2.2893               | ND               | ND              | ND                   | 0.1000              | ND                | 206.0000                  | ND              | 0.0068          |
| 5                                  | 8174      | 8/20/2008   | 0.0003           | ND                | 2.1906               | ND               | ND              | ND                   | 0.1000              | ND                | 206.0000                  | ND              | 0.0084          |
| 6                                  | 8175      | 8/20/2008   | 0.0004           | ND                | 1.9969               | ND               | ND              | ND                   | 0.1000              | ND                | 206.0000                  | ND              | 0.0114          |
| 7                                  | 8176      | 8/20/2008   | 0.0009           | 0.0012            | 3.8914               | 0.0007           | ND              | ND                   | 0.1000              | ND                | 305.0000                  | ND              | 0.0191          |
| 8                                  | 8177      | 8/20/2008   | ND               | 0.0012            | 2.9257               | 0.0008           | ND              | ND                   | 0.1000              | ND                | 296.0000                  | ND              | 0.0194          |
| Test Count that Exceeded Standard: |           |             | 0                | 0                 | 0                    | 0                | 0               | 0                    | 0                   | 0                 | 8                         | 0               | 0               |

ND - Not Detected

### Livestock:

#### Livestock Standards

|                                   | Sample No | Tested Date | 5<br>Al<br>mg/L | 0.2<br>As<br>mg/L | 5<br>B<br>mg/L | .1<br>Be<br>mg/L | 0.05<br>Cd<br>mg/L | 1<br>Co<br>mg/L | 1<br>Cr<br>mg/L | .5<br>Cu<br>mg/L | 2<br>F<br>mg/L | 10<br>Hg<br>ug/L | 440<br>NO3<br>mg/L | .1<br>Pb<br>mg/L | 5.5-8.3<br>pH<br>- | .05<br>Se<br>mg/L | 167;333<br>SO4<br>mg/L | 1000;3000;<br>TDS<br>mg/L | 25<br>Zn<br>mg/L |
|-----------------------------------|-----------|-------------|-----------------|-------------------|----------------|------------------|--------------------|-----------------|-----------------|------------------|----------------|------------------|--------------------|------------------|--------------------|-------------------|------------------------|---------------------------|------------------|
| 1                                 | 8170      | 8/20/2008   | ND              | ND                | 0.0174         | ND               | ND                 | ND              | ND              | 0.0182           | ND             | ND               | ND                 | ND               | 7.5600             | ND                | 72.5530                | 288.0000                  | 0.0205           |
| 2                                 | 8171      | 8/20/2008   | ND              | 0.0032            | 0.0117         | ND               | ND                 | ND              | ND              | 0.0225           | ND             | ND               | ND                 | ND               | 7.3800             | ND                | 18.0205                | 205.0000                  | 0.0195           |
| 3                                 | 8172      | 8/20/2008   | ND              | 0.0031            | 0.0109         | ND               | ND                 | ND              | ND              | 0.0111           | ND             | ND               | ND                 | ND               | 7.6600             | ND                | 18.4107                | 206.0000                  | 0.0063           |
| 4                                 | 8173      | 8/20/2008   | ND              | 0.0030            | 0.0115         | ND               | ND                 | ND              | ND              | 0.0083           | ND             | ND               | ND                 | ND               | 7.3500             | ND                | 18.4319                | 206.0000                  | 0.0068           |
| 5                                 | 8174      | 8/20/2008   | ND              | 0.0030            | 0.0112         | ND               | ND                 | ND              | ND              | 0.0190           | ND             | ND               | ND                 | ND               | 7.4300             | ND                | 18.9292                | 206.0000                  | 0.0084           |
| 6                                 | 8175      | 8/20/2008   | ND              | 0.0032            | 0.0111         | ND               | ND                 | ND              | ND              | 0.0103           | ND             | ND               | ND                 | ND               | 7.4900             | ND                | 18.4291                | 206.0000                  | 0.0114           |
| 7                                 | 8176      | 8/20/2008   | ND              | ND                | 0.0150         | ND               | ND                 | ND              | ND              | 0.0167           | ND             | ND               | ND                 | ND               | 7.6600             | ND                | 58.4535                | 305.0000                  | 0.0191           |
| 8                                 | 8177      | 8/20/2008   | ND              | ND                | 0.0147         | ND               | ND                 | ND              | 0.0007          | 0.0280           | ND             | ND               | ND                 | ND               | 7.6800             | ND                | 72.0421                | 296.0000                  | 0.0194           |
| Test Count that Exceeded Standard |           |             | 0               | 0                 | 0              | 0                | 0                  | 0               | 0               | 0                | 0              | 0                | 0                  | 0                | 0                  | 0                 | 0                      | 0                         | 0                |

ND - Not Detected

## Culinary:

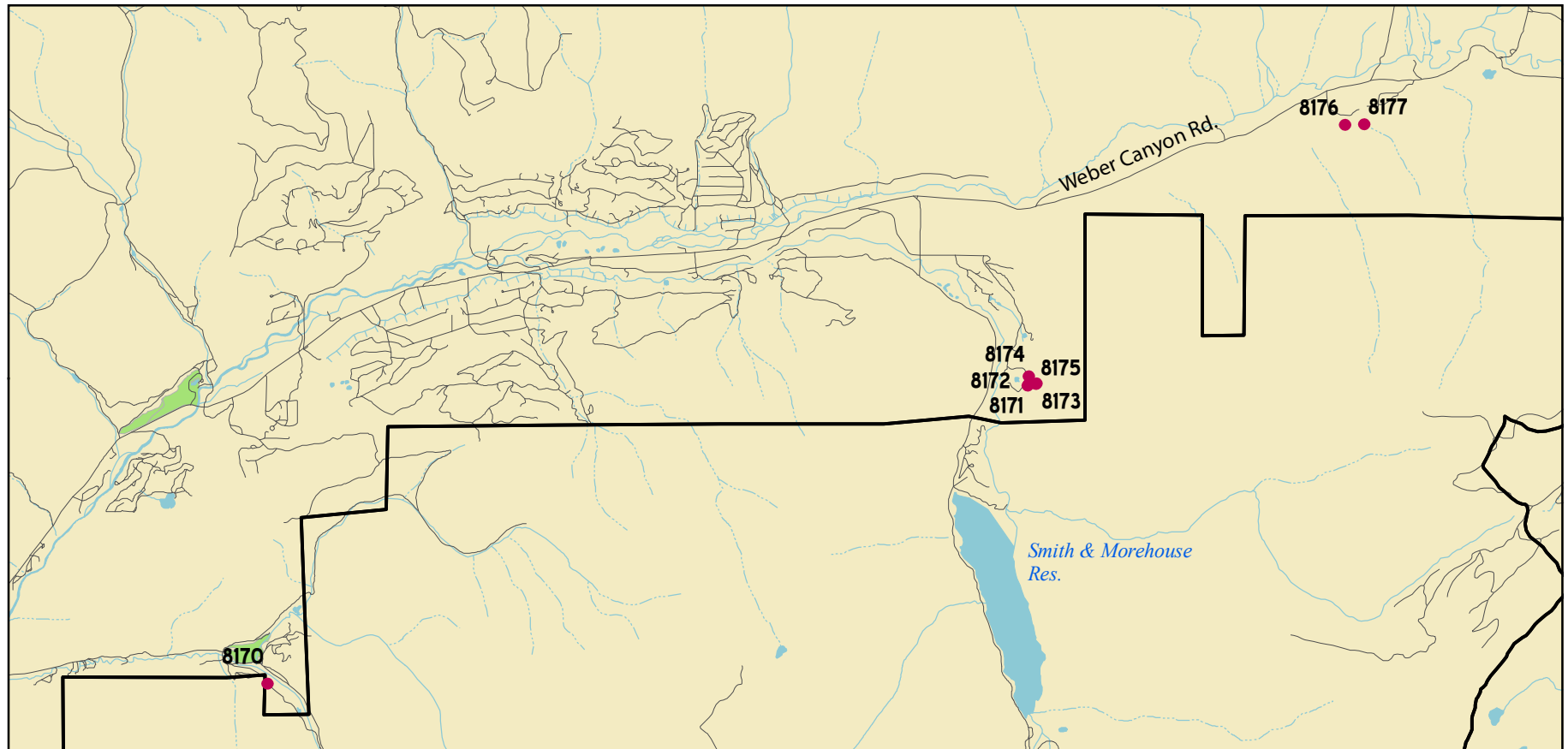
| Drinking Water Primary Standards  |           |             | 0.01<br>As<br>mg/L | 2<br>Ba<br>mg/L | 0.004<br>Be<br>mg/L | 0.005<br>Cd<br>mg/L | 25<br>ClO4<br>ug/L | 0.1<br>Cr<br>mg/L | 1.3<br>Cu<br>mg/L | 4<br>F<br>mg/L | 2<br>Hg<br>ug/L | 10000<br>Na<br>mg/L | 1000<br>Ni<br>mg/L | 44.3<br>NO3<br>mg/L | .015<br>Pb<br>mg/L | .05<br>Se<br>mg/L | 500<br>SO4<br>mg/L | 2000<br>TDS<br>mg/L |
|-----------------------------------|-----------|-------------|--------------------|-----------------|---------------------|---------------------|--------------------|-------------------|-------------------|----------------|-----------------|---------------------|--------------------|---------------------|--------------------|-------------------|--------------------|---------------------|
|                                   | Sample No | Tested Date |                    |                 |                     |                     |                    |                   |                   |                |                 |                     |                    |                     |                    |                   |                    |                     |
| 1                                 | 8170      | 8/20/2008   | ND                 | 0.0259          | ND                  | ND                  | ND                 | ND                | 0.0182            | ND             | ND              | 4.0665              | 0.0016             | ND                  | ND                 | ND                | 72.5530            | 288.0000            |
| 2                                 | 8171      | 8/20/2008   | 0.0032             | 0.0391          | ND                  | ND                  | ND                 | ND                | 0.0225            | ND             | ND              | 2.4211              | 0.0007             | ND                  | ND                 | ND                | 18.0205            | 205.0000            |
| 3                                 | 8172      | 8/20/2008   | 0.0031             | 0.0391          | ND                  | ND                  | ND                 | ND                | 0.0111            | ND             | ND              | 2.6935              | ND                 | ND                  | ND                 | ND                | 18.4107            | 206.0000            |
| 4                                 | 8173      | 8/20/2008   | 0.0030             | 0.0393          | ND                  | ND                  | ND                 | ND                | 0.0083            | ND             | ND              | 2.2893              | ND                 | ND                  | ND                 | ND                | 18.4319            | 206.0000            |
| 5                                 | 8174      | 8/20/2008   | 0.0030             | 0.0385          | ND                  | ND                  | ND                 | ND                | 0.0190            | ND             | ND              | 2.1906              | ND                 | ND                  | ND                 | ND                | 18.9292            | 206.0000            |
| 6                                 | 8175      | 8/20/2008   | 0.0032             | 0.0395          | ND                  | ND                  | ND                 | ND                | 0.0103            | ND             | ND              | 1.9969              | ND                 | ND                  | ND                 | ND                | 18.4291            | 206.0000            |
| 7                                 | 8176      | 8/20/2008   | ND                 | 0.0679          | ND                  | ND                  | ND                 | ND                | 0.0167            | ND             | ND              | 3.8914              | 0.0007             | ND                  | ND                 | ND                | 58.4535            | 305.0000            |
| 8                                 | 8177      | 8/20/2008   | ND                 | 0.0551          | ND                  | ND                  | ND                 | 0.0007            | 0.0280            | ND             | ND              | 2.9257              | 0.0008             | ND                  | ND                 | ND                | 72.0421            | 296.0000            |
| Test Count that Exceeded Standard |           |             | 0                  | 0               | 0                   | 0                   | 0                  | 0                 | 0                 | 0              | 0               | 0                   | 0                  | 0                   | 0                  | 0                 | 0                  | 0                   |

ND - Not Detected

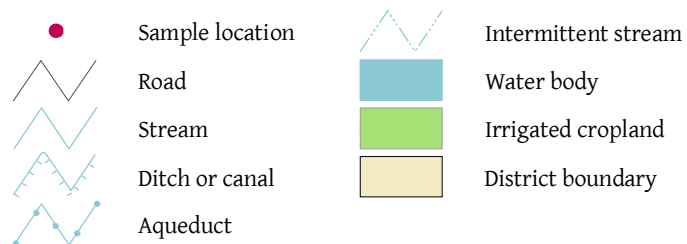
| Drinking Water Secondary Standards: |           |             | 0.1<br>Ag<br>mg/L | 0.5<br>Al<br>mg/L | 250<br>Cl<br>mg/L | 1<br>Cu<br>mg/L | 2<br>F<br>mg/L | 0.3<br>Fe<br>mg/L | 60;120;180<br>Hardnes<br>s | .05<br>Mn<br>mg/L | 6.5-8.5<br>pH<br>- | 1000<br>Si<br>mg/L | 250<br>SO4<br>mg/L | 200<br>TDS<br>mg/L | 5<br>Zn<br>mg/L |
|-------------------------------------|-----------|-------------|-------------------|-------------------|-------------------|-----------------|----------------|-------------------|----------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-----------------|
|                                     | Sample No | Tested Date |                   |                   |                   |                 |                |                   |                            |                   |                    |                    |                    |                    |                 |
| 1                                   | 8170      | 8/20/2008   | ND                | ND                | ND                | 0.0182          | ND             | 0.0791            | 257.9000                   | 0.0359            | 7.5600             | 3.9258             | 72.5530            | 288.0000           | 0.0205          |
| 2                                   | 8171      | 8/20/2008   | ND                | ND                | ND                | 0.0225          | ND             | ND                | 194.4000                   | 0.0005            | 7.3800             | 2.9513             | 18.0205            | 205.0000           | 0.0195          |
| 3                                   | 8172      | 8/20/2008   | ND                | ND                | ND                | 0.0111          | ND             | ND                | 196.9000                   | 0.0005            | 7.6600             | 2.9412             | 18.4107            | 206.0000           | 0.0063          |
| 4                                   | 8173      | 8/20/2008   | ND                | ND                | ND                | 0.0083          | ND             | ND                | 198.1000                   | 0.0005            | 7.3500             | 2.9459             | 18.4319            | 206.0000           | 0.0068          |
| 5                                   | 8174      | 8/20/2008   | ND                | ND                | ND                | 0.0190          | ND             | ND                | 197.9000                   | 0.0003            | 7.4300             | 2.9493             | 18.9292            | 206.0000           | 0.0084          |
| 6                                   | 8175      | 8/20/2008   | ND                | ND                | ND                | 0.0103          | ND             | 0.0172            | 198.7000                   | 0.0004            | 7.4900             | 2.9439             | 18.4291            | 206.0000           | 0.0114          |
| 7                                   | 8176      | 8/20/2008   | ND                | ND                | ND                | 0.0167          | ND             | ND                | 287.0000                   | 0.0009            | 7.6600             | 4.0452             | 58.4535            | 305.0000           | 0.0191          |
| 8                                   | 8177      | 8/20/2008   | ND                | ND                | ND                | 0.0280          | ND             | ND                | 270.9000                   | ND                | 7.6800             | 3.8207             | 72.0421            | 296.0000           | 0.0194          |
| Test Count that Exceeded Standard:  |           |             | 0                 | 0                 | 0                 | 0               | 0              | 0                 | 8                          | 0                 | 0                  | 0                  | 0                  | 8                  | 0               |

ND - Not Detected

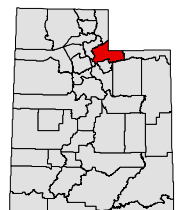
Map 13. Summit County District



Map Scale 1:63,360 (1 inch = 1 mile)



District Location





**General:**

|                                | Sample No | Collected Date | Coliform | Ecoli | Temperature       | EC   | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site  | Site Condition | Well Head    | Material | Casing Condition | Cullinary                           | Irrigation                          | Industrial               | Landscap                 | Natural                  | Drainage                 | Other                    |
|--------------------------------|-----------|----------------|----------|-------|-------------------|------|----------|-----------|---------------|--------------|----------------|--------------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8182      | 8/18/2008      | ND       | ND    | 57.9 F (14.4 C)   | 682  | 576.0    | 0.900     | 304.8         | Well         | Gravel         | Well House   | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8183      | 8/18/2008      | POS      | ND    | 57.7 F (14.3 C)   | 692  | 386.0    | 2.000     | 204.3         | Well         | Vegetated      | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3                              | 8184      | 8/18/2008      | POS      | ND    | 67.8 F (19.9 C)   | 418  | 280.0    | 1.400     | 138.5         | Well         | Vegetated      | Pit Concrete | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4                              | 8185      | 8/18/2008      | POS      | ND    | 69.4 F (20.8 C)   | 445  | 308.0    | 1.500     | 144.8         | Flowing Well | Vegetated      | Lawn         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5                              | 8186      | 8/18/2008      | POS      | ND    | 79.2 F (26.2 C)   | 397  | 272.0    | 0.800     | 173.7         | Well         | Vegetated      | Pit Masonry  | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6                              | 8187      | 8/18/2008      | POS      | ND    | 56.5 F (13.6 C)   | 1028 | 1254     | 10.20     | 3861.         | Well         | Gravel         | Gravel       | PVC      | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7                              | 8188      | 8/18/2008      | ND       | ND    | 59.4 F (15.2 C)   | 547  | 282.0    | 0.600     | 198.3         | Flowing Well | Vegetated      | Gravel       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8                              | 8189      | 8/18/2008      | POS      | ND    | 59.4 F (15.2 C)   | 8240 | 9107.    | 9.500     | 2736.         | Well         | Vegetated      | Lawn         | PVC      | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9                              | 8190      | 8/18/2008      | POS      | ND    | 59.5 F (15.3 C)   | 534  | 285.0    | 1.200     | 165.4         | Well         | Vegetated      | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10                             | 8191      | 8/18/2008      | POS      | ND    | 61.7 F (16.5 C)   | 1543 | 1136.    | 5.700     | 405.9         | Well         | Vegetated      | Well House   | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11                             | 8192      | 8/18/2008      | ND       | ND    | 56.5 F (13.6 C)   | 661  | 397.0    | 0.400     | 324.1         | Well         | Vegetated      | Lawn         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12                             | 8193      | 8/18/2008      | ND       | ND    | 62.8 F (17.1 C)   | 582  | 350.0    | 0.600     | 269.2         | Well         | Vegetated      | Well House   | PVC      | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13                             | 8194      | 8/18/2008      | ND       | ND    | 60.4 F (15.8 C)   | 1282 | 748.0    | 2.200     | 446.5         | Well         | Vegetated      | Well House   | PVC      | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14                             | 8195      | 8/18/2008      | POS      | ND    | 60.3 F (15.7 C)   | 3070 | 1877.    | 4.000     | 830.5         | Well         | Vegetated      | Soil         | Steel    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |           |                | 9        | 0     | ND - Not Detected |      |          |           |               |              |                |              |          |                  |                                     |                                     |                          |                          |                          |                          |                          |

## Irrigation:

| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                                 | 8182      | 8/25/2008   | ND         | 0.0710       | ND         | 80.1181    | 29.5978    | 0.0003     | ND          | 0.0020     | 0.0130     | ND        | ND         | 613.3660     | 8.9928    | 0.0208     | 25.3601    |
| 2                                 | 8183      | 8/25/2008   | ND         | 0.1524       | ND         | 39.2898    | 31.7307    | ND         | ND          | 0.0019     | 0.0128     | ND        | ND         | 374.2180     | 5.8215    | 0.0395     | 25.7534    |
| 3                                 | 8184      | 8/25/2008   | ND         | 0.0446       | ND         | 33.4506    | ND         | ND         | ND          | 0.0012     | 0.0076     | ND        | 0.1836     | 243.0770     | 8.0253    | 0.0154     | 13.3192    |
| 4                                 | 8185      | 8/25/2008   | ND         | 0.0638       | ND         | 31.9277    | 12.2792    | ND         | ND          | 0.0011     | 0.0109     | ND        | 0.6417     | 250.7290     | 10.5866   | 0.0252     | 15.7646    |
| 5                                 | 8186      | 8/25/2008   | ND         | 0.0403       | ND         | 33.2390    | ND         | ND         | ND          | 0.0010     | 0.0194     | ND        | 0.0654     | 237.2370     | 7.3492    | 0.0211     | 21.9831    |
| 6                                 | 8187      | 8/21/2008   | ND         | 1.3400       | ND         | 488.6838   | 3328.0770  | 0.0055     | ND          | 0.0029     | 0.0249     | ND        | 0.0361     | 853.9230     | 20.8844   | 1.1790     | 640.8040   |
| 7                                 | 8188      | 8/25/2008   | ND         | 0.0498       | ND         | 38.0848    | ND         | ND         | ND          | 0.0012     | 0.0037     | ND        | 0.0201     | 250.3440     | 8.7136    | 0.0321     | 25.0224    |
| 8                                 | 8189      | 8/21/2008   | ND         | 0.9188       | ND         | 342.1022   | 2389.6240  | 0.0016     | ND          | 0.0024     | 0.0163     | ND        | ND         | 741.4060     | 14.5212   | 0.7515     | 456.6972   |
| 9                                 | 8190      | 8/25/2008   | ND         | 0.0988       | ND         | 28.0775    | 15.0068    | ND         | ND          | 0.0011     | 0.0151     | ND        | 0.0669     | 270.3480     | 9.2051    | 0.0725     | 23.1056    |
| 10                                | 8191      | 8/25/2008   | ND         | 0.9866       | ND         | 58.7055    | 79.8629    | ND         | ND          | 0.0040     | 0.0471     | ND        | ND         | 606.5110     | 7.9177    | 0.1626     | 62.8881    |
| 11                                | 8192      | 8/25/2008   | ND         | 0.0308       | ND         | 80.5668    | 18.6494    | ND         | ND          | 0.0023     | 0.0127     | ND        | ND         | 374.4130     | 3.1909    | 0.0055     | 29.7801    |
| 12                                | 8193      | 8/25/2008   | ND         | 0.0218       | ND         | 64.9938    | 23.8492    | ND         | ND          | 0.0029     | 0.0305     | ND        | ND         | 307.6060     | 1.8889    | 0.0097     | 25.9101    |
| 13                                | 8194      | 8/25/2008   | ND         | 0.0567       | ND         | 104.6368   | 168.8265   | ND         | ND          | 0.0013     | 0.0095     | ND        | ND         | 389.4330     | 7.3567    | 0.0225     | 44.8908    |
| 14                                | 8195      | 8/25/2008   | ND         | 0.2294       | ND         | 151.0324   | 726.1771   | 0.0004     | ND          | 0.0023     | 0.0646     | ND        | ND         | 562.7800     | 4.8111    | 0.0515     | 109.9405   |
| Test Count that Exceeded Standard |           |             | 0          | 3            | 0          | 0          | 5          | 0          | 0           | 0          | 0          | 0         | 0          | 14           | 0         | 0          | 0          |

ND - Not Detected

| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8182      | 8/25/2008   | 0.1058     | 0.0031     | 35.7064    | 0.0010     | ND         | ND          | 0.9000       | ND         | 576.0000    | ND        | 0.0112     |
| 2                                  | 8183      | 8/25/2008   | 0.0512     | 0.0045     | 66.2061    | 0.0007     | ND         | ND          | 2.0000       | ND         | 386.0000    | ND        | 0.0046     |
| 3                                  | 8184      | 8/25/2008   | 0.0460     | 0.0019     | 36.7565    | ND         | ND         | ND          | 1.4000       | ND         | 280.0000    | 0.0032    | 0.0048     |
| 4                                  | 8185      | 8/25/2008   | 0.0183     | 0.0039     | 41.0581    | ND         | ND         | ND          | 1.5000       | ND         | 308.0000    | 0.0037    | 0.0045     |
| 5                                  | 8186      | 8/25/2008   | 0.0008     | 0.0015     | 24.0140    | ND         | ND         | ND          | 0.8000       | ND         | 272.0000    | 0.0069    | 0.0337     |
| 6                                  | 8187      | 8/21/2008   | 2.0880     | 0.1513     | 1449.9620  | 0.0141     | 0.0016     | ND          | 10.2000      | 0.0042     | 12543.000   | 0.0054    | 0.0213     |
| 7                                  | 8188      | 8/25/2008   | 0.0344     | 0.0016     | 18.2610    | ND         | ND         | ND          | 0.6000       | ND         | 282.0000    | ND        | 0.0571     |
| 8                                  | 8189      | 8/21/2008   | 0.8984     | 0.1004     | 1142.5530  | 0.0109     | ND         | ND          | 9.5000       | 0.0409     | 9107.0000   | 0.0107    | 0.0139     |
| 9                                  | 8190      | 8/25/2008   | 0.0491     | 0.0035     | 36.3689    | ND         | ND         | ND          | 1.2000       | ND         | 285.0000    | ND        | 0.0066     |
| 10                                 | 8191      | 8/25/2008   | 0.0011     | 0.0028     | 262.4644   | 0.0009     | ND         | ND          | 5.7000       | 0.0063     | 1136.0000   | 0.0145    | 0.0344     |
| 11                                 | 8192      | 8/25/2008   | 0.0005     | ND         | 16.9640    | 0.0007     | ND         | ND          | 0.4000       | ND         | 397.0000    | 0.0021    | 0.0216     |
| 12                                 | 8193      | 8/25/2008   | ND         | ND         | 22.0023    | 0.0007     | ND         | ND          | 0.6000       | ND         | 350.0000    | 0.0022    | 0.0072     |
| 13                                 | 8194      | 8/25/2008   | 0.3049     | 0.0017     | 108.8370   | 0.0010     | ND         | ND          | 2.2000       | ND         | 748.0000    | ND        | 0.0093     |
| 14                                 | 8195      | 8/25/2008   | 0.0336     | 0.0055     | 262.0450   | 0.0035     | ND         | ND          | 4.0000       | 0.0076     | 1877.0000   | 0.0069    | 5.0160     |
| Test Count that Exceeded Standard: |           |             | 3          | 2          | 5          | 0          | 0          | 0           | 4            | 1          | 14          | 0         | 1          |

ND - Not Detected

**Livestock:**

| Livestock Standards               |           |             | 5          | 0.2        | 5         | .1         | 0.05       | 1          | 1          | .5         | 2         | 10         | 440         | .1         | 5.5-8.3 | .05        | 167;333     | 1000;3000;  | 25         |
|-----------------------------------|-----------|-------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                 | 8182      | 8/25/2008   | ND         | 0.0021     | 0.0710    | ND         | ND         | 0.0003     | 0.0020     | 0.0130     | ND        | ND         | ND          | ND         | 8.0000  | ND         | 75.2716     | 576.0000    | 0.0112     |
| 2                                 | 8183      | 8/25/2008   | ND         | 0.0195     | 0.1524    | ND         | ND         | ND         | 0.0019     | 0.0128     | ND        | ND         | ND          | ND         | 7.9600  | ND         | 17.9889     | 386.0000    | 0.0046     |
| 3                                 | 8184      | 8/25/2008   | ND         | 0.0061     | 0.0446    | ND         | ND         | ND         | 0.0012     | 0.0076     | ND        | ND         | ND          | ND         | 7.9200  | ND         | 29.3638     | 280.0000    | 0.0048     |
| 4                                 | 8185      | 8/25/2008   | ND         | 0.0071     | 0.0638    | ND         | ND         | ND         | 0.0011     | 0.0109     | ND        | ND         | ND          | ND         | 7.9000  | ND         | 33.8982     | 308.0000    | 0.0045     |
| 5                                 | 8186      | 8/25/2008   | ND         | 0.0065     | 0.0403    | ND         | ND         | ND         | 0.0010     | 0.0194     | ND        | ND         | ND          | ND         | 7.9500  | ND         | 26.9063     | 272.0000    | 0.0337     |
| 6                                 | 8187      | 8/21/2008   | ND         | 0.0050     | 1.3400    | ND         | ND         | 0.0055     | 0.0029     | 0.0249     | ND        | ND         | 12.6921     | 0.0016     | 7.5000  | 0.0042     | 6170.5340   | 12543.000   | 0.0213     |
| 7                                 | 8188      | 8/25/2008   | ND         | 0.0154     | 0.0498    | ND         | ND         | ND         | 0.0012     | 0.0037     | ND        | ND         | ND          | ND         | 7.9200  | ND         | 28.0262     | 282.0000    | 0.0571     |
| 8                                 | 8189      | 8/21/2008   | ND         | 0.0050     | 0.9188    | ND         | ND         | 0.0016     | 0.0024     | 0.0163     | ND        | ND         | 49.4682     | ND         | 7.7400  | 0.0409     | 4338.6530   | 9107.0000   | 0.0139     |
| 9                                 | 8190      | 8/25/2008   | ND         | 0.0252     | 0.0988    | ND         | ND         | ND         | 0.0011     | 0.0151     | ND        | ND         | ND          | ND         | 8.0000  | ND         | 15.1298     | 285.0000    | 0.0066     |
| 10                                | 8191      | 8/25/2008   | ND         | 0.0129     | 0.9866    | ND         | ND         | ND         | 0.0040     | 0.0471     | ND        | ND         | 36.5349     | ND         | 7.9100  | 0.0063     | 304.2701    | 1136.0000   | 0.0344     |
| 11                                | 8192      | 8/25/2008   | ND         | ND         | 0.0308    | ND         | ND         | ND         | 0.0023     | 0.0127     | ND        | ND         | ND          | ND         | 7.8100  | ND         | 38.4151     | 397.0000    | 0.0216     |
| 12                                | 8193      | 8/25/2008   | ND         | ND         | 0.0218    | ND         | ND         | ND         | 0.0029     | 0.0305     | ND        | ND         | ND          | ND         | 7.7900  | ND         | 44.7026     | 350.0000    | 0.0072     |
| 13                                | 8194      | 8/25/2008   | ND         | 0.0096     | 0.0567    | ND         | ND         | ND         | 0.0013     | 0.0095     | ND        | ND         | ND          | ND         | 7.7700  | ND         | 101.8298    | 748.0000    | 0.0093     |
| 14                                | 8195      | 8/25/2008   | ND         | 0.0045     | 0.2294    | ND         | ND         | 0.0004     | 0.0023     | 0.0646     | ND        | ND         | ND          | ND         | 7.5600  | 0.0076     | 328.4948    | 1877.0000   | 5.0160     |
| Test Count that Exceeded Standard |           |             | 0          | 0          | 0         | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0           | 0          | 0       | 0          | 4           | 4           | 0          |
| ND - Not Detected                 |           |             |            |            |           |            |            |            |            |            |           |            |             |            |         |            |             |             |            |



## Culinary:

| Drinking Water Primary Standards  |             |           | 0.01<br>As<br>mg/L | 2<br>Ba<br>mg/L | 0.004<br>Be<br>mg/L | 0.005<br>Cd<br>mg/L | 25<br>ClO4<br>ug/L | 0.1<br>Cr<br>mg/L | 1.3<br>Cu<br>mg/L | 4<br>F<br>mg/L | 2<br>Hg<br>ug/L | 10000<br>Na<br>mg/L | 1000<br>Ni<br>mg/L | 44.3<br>NO3<br>mg/L | .015<br>Pb<br>mg/L | .05<br>Se<br>mg/L | 500<br>SO4<br>mg/L | 2000<br>TDS<br>mg/L |
|-----------------------------------|-------------|-----------|--------------------|-----------------|---------------------|---------------------|--------------------|-------------------|-------------------|----------------|-----------------|---------------------|--------------------|---------------------|--------------------|-------------------|--------------------|---------------------|
| Sample No                         | Tested Date |           |                    |                 |                     |                     |                    |                   |                   |                |                 |                     |                    |                     |                    |                   |                    |                     |
| 1                                 | 8182        | 8/25/2008 | 0.0021             | 0.1228          | ND                  | ND                  | ND                 | 0.0020            | 0.0130            | ND             | ND              | 35.7064             | 0.0010             | ND                  | ND                 | ND                | 75.2716            | 576.0000            |
| 2                                 | 8183        | 8/25/2008 | 0.0195             | 0.1603          | ND                  | ND                  | ND                 | 0.0019            | 0.0128            | ND             | ND              | 66.2061             | 0.0007             | ND                  | ND                 | ND                | 17.9889            | 386.0000            |
| 3                                 | 8184        | 8/25/2008 | 0.0061             | 0.1087          | ND                  | ND                  | ND                 | 0.0012            | 0.0076            | ND             | ND              | 36.7565             | ND                 | ND                  | ND                 | ND                | 29.3638            | 280.0000            |
| 4                                 | 8185        | 8/25/2008 | 0.0071             | 0.1087          | ND                  | ND                  | ND                 | 0.0011            | 0.0109            | ND             | ND              | 41.0581             | ND                 | ND                  | ND                 | ND                | 33.8982            | 308.0000            |
| 5                                 | 8186        | 8/25/2008 | 0.0065             | 0.1327          | ND                  | ND                  | ND                 | 0.0010            | 0.0194            | ND             | ND              | 24.0140             | ND                 | ND                  | ND                 | ND                | 26.9063            | 272.0000            |
| 6                                 | 8187        | 8/21/2008 | 0.0050             | 0.0192          | ND                  | ND                  | ND                 | 0.0029            | 0.0249            | ND             | ND              | 1449.9620           | 0.0141             | 12.6921             | 0.0016             | 0.0042            | 6170.5340          | 12543.000           |
| 7                                 | 8188        | 8/25/2008 | 0.0154             | 0.2010          | ND                  | ND                  | ND                 | 0.0012            | 0.0037            | ND             | ND              | 18.2610             | ND                 | ND                  | ND                 | ND                | 28.0262            | 282.0000            |
| 8                                 | 8189        | 8/21/2008 | 0.0050             | 0.0286          | ND                  | ND                  | ND                 | 0.0024            | 0.0163            | ND             | ND              | 1142.5530           | 0.0109             | 49.4682             | ND                 | 0.0409            | 4338.6530          | 9107.0000           |
| 9                                 | 8190        | 8/25/2008 | 0.0252             | 0.2437          | ND                  | ND                  | ND                 | 0.0011            | 0.0151            | ND             | ND              | 36.3689             | ND                 | ND                  | ND                 | ND                | 15.1298            | 285.0000            |
| 10                                | 8191        | 8/25/2008 | 0.0129             | 0.0267          | ND                  | ND                  | ND                 | 0.0040            | 0.0471            | ND             | ND              | 262.4644            | 0.0009             | 36.5349             | ND                 | 0.0063            | 304.2701           | 1136.0000           |
| 11                                | 8192        | 8/25/2008 | ND                 | 0.1351          | ND                  | ND                  | ND                 | 0.0023            | 0.0127            | ND             | ND              | 16.9640             | 0.0007             | ND                  | ND                 | ND                | 38.4151            | 397.0000            |
| 12                                | 8193        | 8/25/2008 | ND                 | 0.1123          | ND                  | ND                  | ND                 | 0.0029            | 0.0305            | ND             | ND              | 22.0023             | 0.0007             | ND                  | ND                 | ND                | 44.7026            | 350.0000            |
| 13                                | 8194        | 8/25/2008 | 0.0096             | 0.1323          | ND                  | ND                  | ND                 | 0.0013            | 0.0095            | ND             | ND              | 108.8370            | 0.0010             | ND                  | ND                 | ND                | 101.8298           | 748.0000            |
| 14                                | 8195        | 8/25/2008 | 0.0045             | 0.1058          | ND                  | ND                  | ND                 | 0.0023            | 0.0646            | ND             | ND              | 262.0450            | 0.0035             | ND                  | ND                 | 0.0076            | 328.4948           | 1877.0000           |
| Test Count that Exceeded Standard |             |           | 4                  | 0               | 0                   | 0                   | 0                  | 0                 | 0                 | 0              | 0               | 0                   | 0                  | 1                   | 0                  | 0                 | 2                  | 2                   |

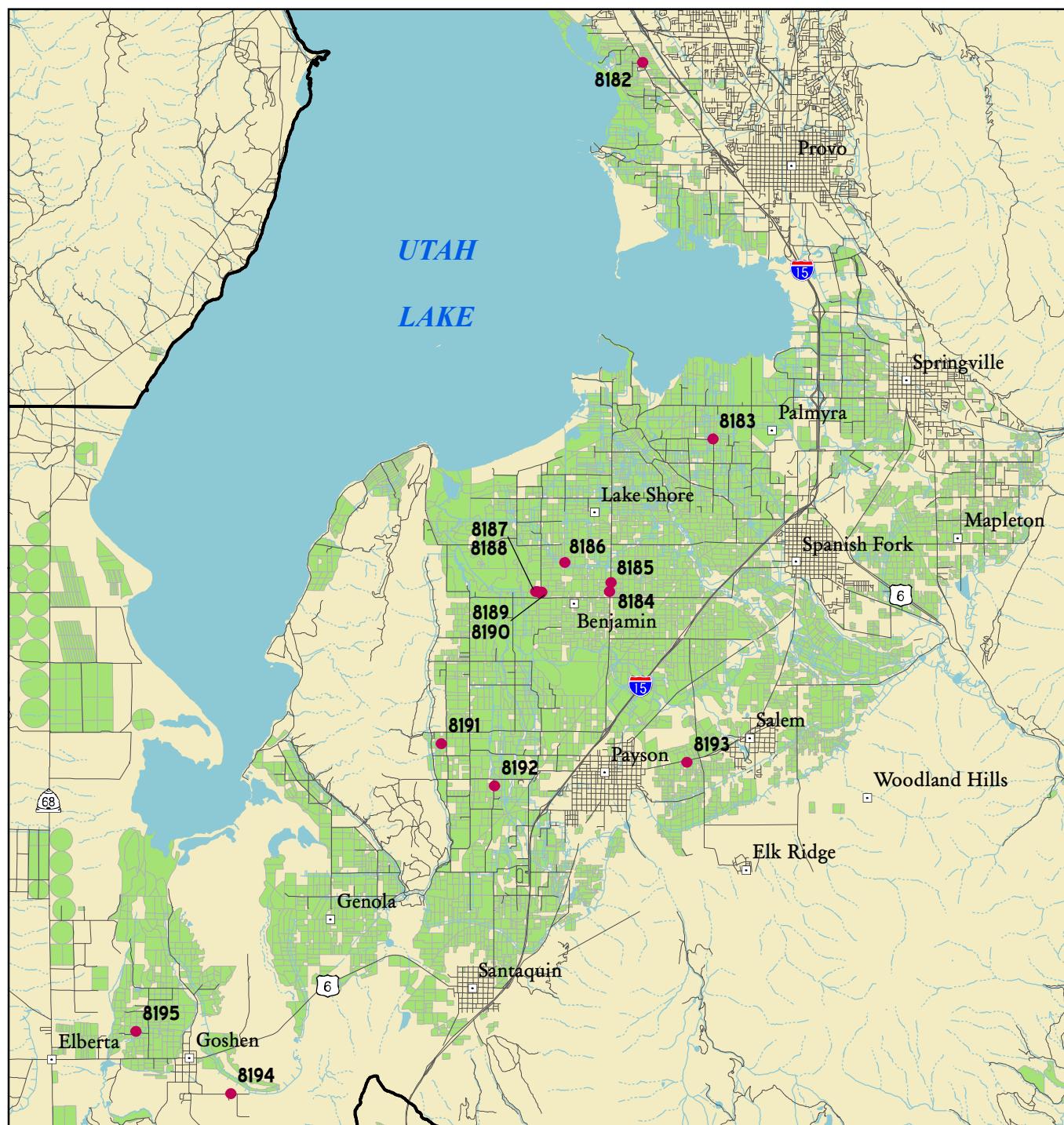
ND - Not Detected

| Drinking Water Secondary Standards: |             |           | 0.1<br>Ag<br>mg/L | 0.5<br>Al<br>mg/L | 250<br>Cl<br>mg/L | 1<br>Cu<br>mg/L | 2<br>F<br>mg/L | 0.3<br>Fe<br>mg/L | 60;120;180<br>Hardnes<br>s | .05<br>Mn<br>mg/L | 6.5-8.5<br>pH<br>- | 1000<br>Si<br>mg/L | 250<br>SO4<br>mg/L | 200<br>TDS<br>mg/L | 5<br>Zn<br>mg/L |
|-------------------------------------|-------------|-----------|-------------------|-------------------|-------------------|-----------------|----------------|-------------------|----------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-----------------|
| Sample No                           | Tested Date |           |                   |                   |                   |                 |                |                   |                            |                   |                    |                    |                    |                    |                 |
| 1                                   | 8182        | 8/25/2008 | ND                | ND                | 29.5978           | 0.0130          | ND             | ND                | 304.8000                   | 0.1058            | 8.0000             | 16.7610            | 75.2716            | 576.0000           | 0.0112          |
| 2                                   | 8183        | 8/25/2008 | ND                | ND                | 31.7307           | 0.0128          | ND             | ND                | 204.3000                   | 0.0512            | 7.9600             | 14.5549            | 17.9889            | 386.0000           | 0.0046          |
| 3                                   | 8184        | 8/25/2008 | ND                | ND                | ND                | 0.0076          | ND             | 0.1836            | 138.5000                   | 0.0460            | 7.9200             | 29.6611            | 29.3638            | 280.0000           | 0.0048          |
| 4                                   | 8185        | 8/25/2008 | ND                | ND                | 12.2792           | 0.0109          | ND             | 0.6417            | 144.8000                   | 0.0183            | 7.9000             | 38.8318            | 33.8982            | 308.0000           | 0.0045          |
| 5                                   | 8186        | 8/25/2008 | ND                | ND                | ND                | 0.0194          | ND             | 0.0654            | 173.7000                   | 0.0008            | 7.9500             | 30.4402            | 26.9063            | 272.0000           | 0.0337          |
| 6                                   | 8187        | 8/21/2008 | ND                | ND                | 3328.0770         | 0.0249          | ND             | 0.0361            | 3861.8000                  | 2.0880            | 7.5000             | 9.3953             | 6170.5340          | 12543.000          | 0.0213          |
| 7                                   | 8188        | 8/25/2008 | ND                | ND                | ND                | 0.0037          | ND             | 0.0201            | 198.3000                   | 0.0344            | 7.9200             | 29.1345            | 28.0262            | 282.0000           | 0.0571          |
| 8                                   | 8189        | 8/21/2008 | ND                | ND                | 2389.6240         | 0.0163          | ND             | ND                | 2736.8000                  | 0.8984            | 7.7400             | 6.9836             | 4338.6530          | 9107.0000          | 0.0139          |
| 9                                   | 8190        | 8/25/2008 | ND                | ND                | 15.0068           | 0.0151          | ND             | 0.0669            | 165.4000                   | 0.0491            | 8.0000             | 25.2594            | 15.1298            | 285.0000           | 0.0066          |
| 10                                  | 8191        | 8/25/2008 | ND                | ND                | 79.8629           | 0.0471          | ND             | ND                | 405.9000                   | 0.0011            | 7.9100             | 23.9770            | 304.2701           | 1136.0000          | 0.0344          |
| 11                                  | 8192        | 8/25/2008 | ND                | ND                | 18.6494           | 0.0127          | ND             | ND                | 324.1000                   | 0.0005            | 7.8100             | 13.2874            | 38.4151            | 397.0000           | 0.0216          |
| 12                                  | 8193        | 8/25/2008 | ND                | ND                | 23.8492           | 0.0305          | ND             | ND                | 269.2000                   | ND                | 7.7900             | 8.7005             | 44.7026            | 350.0000           | 0.0072          |
| 13                                  | 8194        | 8/25/2008 | ND                | ND                | 168.8265          | 0.0095          | ND             | ND                | 446.5000                   | 0.3049            | 7.7700             | 19.3163            | 101.8298           | 748.0000           | 0.0093          |
| 14                                  | 8195        | 8/25/2008 | ND                | ND                | 726.1771          | 0.0646          | ND             | ND                | 830.5000                   | 0.0336            | 7.5600             | 14.4346            | 328.4948           | 1877.0000          | 5.0160          |
| Test Count that Exceeded Standard:  |             |           | 0                 | 0                 | 3                 | 0               | 0              | 1                 | 14                         | 5                 | 0                  | 0                  | 4                  | 14                 | 1               |

ND - Not Detected



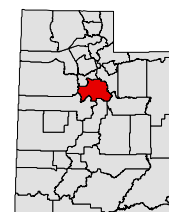
Map 14. Timp/Nebo District



Map Scale 1:205,920 (1 inch = 3.25 miles)



District Location



- Sample location
- Road
- Stream
- Ditch or canal
- Aqueduct

- Intermittent stream
- Water body
- Irrigated cropland
- District boundary

Wasatch District

General:

General Sample Information

| Sample No                      | Collected Date | Coliform  | Ecoli | Temperature       | EC              | TDS mg/L | SAR meq/L.mg/L | Hardness | Sample Site | Site Condition | Well Head | Material     | Casing Condition | Cullinary | Irriga-tion                         | Indust-rial                         | Lands-cape               | Natural                  | Drai-nage                | Other                    |
|--------------------------------|----------------|-----------|-------|-------------------|-----------------|----------|----------------|----------|-------------|----------------|-----------|--------------|------------------|-----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8181           | 8/12/2008 | POS   | ND                | 58.3 F (14.6 C) | 1647     | 1508.1         | 600.2    | 1002.       | Drain          | Livestock | Pit Concrete | Concrete         | Open      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8268           | 9/29/2008 | ND    | ND                | 45.0 F (7.2 C)  | 111      | 77.00          | 0.300    | 36.30       | Well           | Vegetated | Gravel       | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3                              | 8269           | 9/29/2008 | ND    | ND                | 46.4 F (8.0 C)  | 121      | 70.00          | 0.200    | 40.90       | Pond           | Vegetated | Pit Concrete | Concrete         | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4                              | 8270           | 9/29/2008 | ND    | ND                | 44.4 F (6.9 C)  | 285      | 158.0          | 0.300    | 116.9       | Well           | Vegetated | Lawn         | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5                              | 8271           | 9/29/2008 | ND    | ND                | 45.1 F (7.3 C)  | 238      | 137.0          | 0.200    | 100.7       | Well           | Vegetated | Soil         | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                | 1         | 0     | ND - Not Detected |                 |          |                |          |             |                |           |              |                  |           |                                     |                                     |                          |                          |                          |                          |

Irrigation:

Irrigation Standards

| Sample No                         | Tested Date | 5 Al mg/L | 0.5;1.0;2.0; B mg/L | .1 Be mg/L | 100000 Ca mg/L | 71;355 Cl mg/L | 1 Co mg/L | 1000 CO3 mg/L | 1 Cr mg/L | 0.2 Cu mg/L | 2 F mg/L | 5 Fe mg/L | 73.2;152.5 HCO3 mg/L | 10000 K mg/L | 2.5 Li mg/L | 100000 Mg mg/L |
|-----------------------------------|-------------|-----------|---------------------|------------|----------------|----------------|-----------|---------------|-----------|-------------|----------|-----------|----------------------|--------------|-------------|----------------|
| 1                                 | 8181        | 8/20/2008 | ND                  | 0.7515     | ND             | 295.3400       | 107.6012  | 0.0004        | ND        | ND          | 0.0142   | ND        | 544.6080             | 24.5808      | 0.3526      | 64.0330        |
| 2                                 | 8268        | 9/30/2008 | ND                  | 0.0082     | ND             | 10.5313        | ND        | ND            | 0.0068    | 0.0211      | ND       | 0.0350    | 70.7157              | 0.4141       | ND          | 2.4135         |
| 3                                 | 8269        | 9/30/2008 | ND                  | 0.0081     | ND             | 12.9955        | ND        | ND            | ND        | 0.0178      | ND       | 0.0128    | 54.4487              | 0.7902       | ND          | 2.0390         |
| 4                                 | 8270        | 9/30/2008 | ND                  | 0.0079     | ND             | 32.3718        | ND        | ND            | ND        | 0.0111      | ND       | 0.0672    | 140.7570             | 0.7026       | ND          | 8.7306         |
| 5                                 | 8271        | 9/30/2008 | ND                  | 0.0063     | ND             | 27.8967        | ND        | ND            | 0.0005    | 0.0045      | ND       | ND        | 114.8030             | 0.8287       | ND          | 7.5215         |
| Test Count that Exceeded Standard |             | 0         | 1                   | 0          | 0              | 1              | 0         | 0             | 0         | 0           | 0        | 0         | 3                    | 0            | 0           | 0              |

ND - Not Detected

Irrigation Standards Continues

| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8181      | 8/20/2008   | 0.0072     | 0.0038     | 116.4161   | 0.0028     | ND         | ND          | 1.6000       | ND         | 1508.0000   | ND        | 0.0103     |
| 2                                  | 8268      | 9/30/2008   | 0.0057     | 0.0009     | 3.6683     | 0.0042     | ND         | ND          | 0.3000       | ND         | 77.0000     | ND        | 0.0069     |
| 3                                  | 8269      | 9/30/2008   | 0.0112     | ND         | 3.3852     | ND         | ND         | ND          | 0.2000       | ND         | 70.0000     | ND        | 0.0628     |
| 4                                  | 8270      | 9/30/2008   | 0.0444     | 0.0131     | 8.2346     | ND         | ND         | ND          | 0.3000       | ND         | 158.0000    | ND        | 0.0264     |
| 5                                  | 8271      | 9/30/2008   | 0.0062     | 0.0049     | 5.2139     | ND         | ND         | ND          | 0.2000       | ND         | 137.0000    | ND        | 0.0096     |
| Test Count that Exceeded Standard: |           |             | 0          | 1          | 1          | 0          | 0          | 0           | 0            | 0          | 2           | 0         | 0          |

ND - Not Detected

## Livestock:

### Livestock Standards

| Sample No                         | Tested Date | 5<br>Al<br>mg/L | 0.2<br>As<br>mg/L | 5<br>B<br>mg/L | .1<br>Be<br>mg/L | 0.05<br>Cd<br>mg/L | 1<br>Co<br>mg/L | 1<br>Cr<br>mg/L | .5<br>Cu<br>mg/L | 2<br>F<br>mg/L | 10<br>Hg<br>ug/L | 440<br>NO3<br>mg/L | .1<br>Pb<br>mg/L | 5.5-8.3<br>pH<br>- | .05<br>Se<br>mg/L | 167,333<br>SO4<br>mg/L | 1000;3000;<br>TDS<br>mg/L | 25<br>Zn<br>mg/L |
|-----------------------------------|-------------|-----------------|-------------------|----------------|------------------|--------------------|-----------------|-----------------|------------------|----------------|------------------|--------------------|------------------|--------------------|-------------------|------------------------|---------------------------|------------------|
| 1                                 | 8181        | 8/20/2008       | ND                | 0.0497         | 0.7515           | ND                 | ND              | 0.0004          | ND               | 0.0142         | ND               | ND                 | ND               | 7.2600             | ND                | 613.7298               | 1508.0000                 | 0.0103           |
| 2                                 | 8268        | 9/30/2008       | ND                | ND             | 0.0082           | ND                 | ND              | 0.0068          | 0.0211           | ND             | ND               | ND                 | ND               | 7.2100             | ND                | ND                     | 77.0000                   | 0.0069           |
| 3                                 | 8269        | 9/30/2008       | ND                | ND             | 0.0081           | ND                 | ND              | ND              | 0.0178           | ND             | ND               | ND                 | ND               | 6.2700             | ND                | ND                     | 70.0000                   | 0.0628           |
| 4                                 | 8270        | 9/30/2008       | ND                | ND             | 0.0079           | ND                 | ND              | ND              | 0.0111           | ND             | ND               | ND                 | ND               | 7.0100             | ND                | 26.9004                | 158.0000                  | 0.0264           |
| 5                                 | 8271        | 9/30/2008       | ND                | ND             | 0.0063           | ND                 | ND              | 0.0005          | 0.0045           | ND             | ND               | ND                 | ND               | 7.0800             | ND                | 25.9308                | 137.0000                  | 0.0096           |
| Test Count that Exceeded Standard |             | 0               | 0                 | 0              | 0                | 0                  | 0               | 0               | 0                | 0              | 0                | 0                  | 0                | 0                  | 0                 | 1                      | 1                         | 0                |

ND - Not Detected

## Culinary:

### Drinking Water Primary Standard

| Sample No                         | Tested Date | 0.01<br>As<br>mg/L | 2<br>Ba<br>mg/L | 0.004<br>Be<br>mg/L | 0.005<br>Cd<br>mg/L | 25<br>ClO4<br>ug/L | 0.1<br>Cr<br>mg/L | 1.3<br>Cu<br>mg/L | 4<br>F<br>mg/L | 2<br>Hg<br>ug/L | 10000<br>Na<br>mg/L | 1000<br>Ni<br>mg/L | 44.3<br>NO3<br>mg/L | .015<br>Pb<br>mg/L | .05<br>Se<br>mg/L | 500<br>SO4<br>mg/L | 2000<br>TDS<br>mg/L |
|-----------------------------------|-------------|--------------------|-----------------|---------------------|---------------------|--------------------|-------------------|-------------------|----------------|-----------------|---------------------|--------------------|---------------------|--------------------|-------------------|--------------------|---------------------|
| 1                                 | 8181        | 8/20/2008          | 0.0497          | 0.0369              | ND                  | ND                 | ND                | 0.0142            | ND             | ND              | 116.4161            | 0.0028             | ND                  | ND                 | ND                | 613.7298           | 1508.0000           |
| 2                                 | 8268        | 9/30/2008          | ND              | 0.0314              | ND                  | ND                 | 0.0068            | 0.0211            | ND             | ND              | 3.6683              | 0.0042             | ND                  | ND                 | ND                | ND                 | 77.0000             |
| 3                                 | 8269        | 9/30/2008          | ND              | 0.0274              | ND                  | ND                 | ND                | 0.0178            | ND             | ND              | 3.3852              | ND                 | ND                  | ND                 | ND                | ND                 | 70.0000             |
| 4                                 | 8270        | 9/30/2008          | ND              | 0.0349              | ND                  | ND                 | ND                | 0.0111            | ND             | ND              | 8.2346              | ND                 | ND                  | ND                 | ND                | 26.9004            | 158.0000            |
| 5                                 | 8271        | 9/30/2008          | ND              | 0.0584              | ND                  | ND                 | 0.0005            | 0.0045            | ND             | ND              | 5.2139              | ND                 | ND                  | ND                 | ND                | 25.9308            | 137.0000            |
| Test Count that Exceeded Standard |             | 1                  | 0               | 0                   | 0                   | 0                  | 0                 | 0                 | 0              | 0               | 0                   | 0                  | 0                   | 0                  | 0                 | 1                  | 0                   |

ND - Not Detected

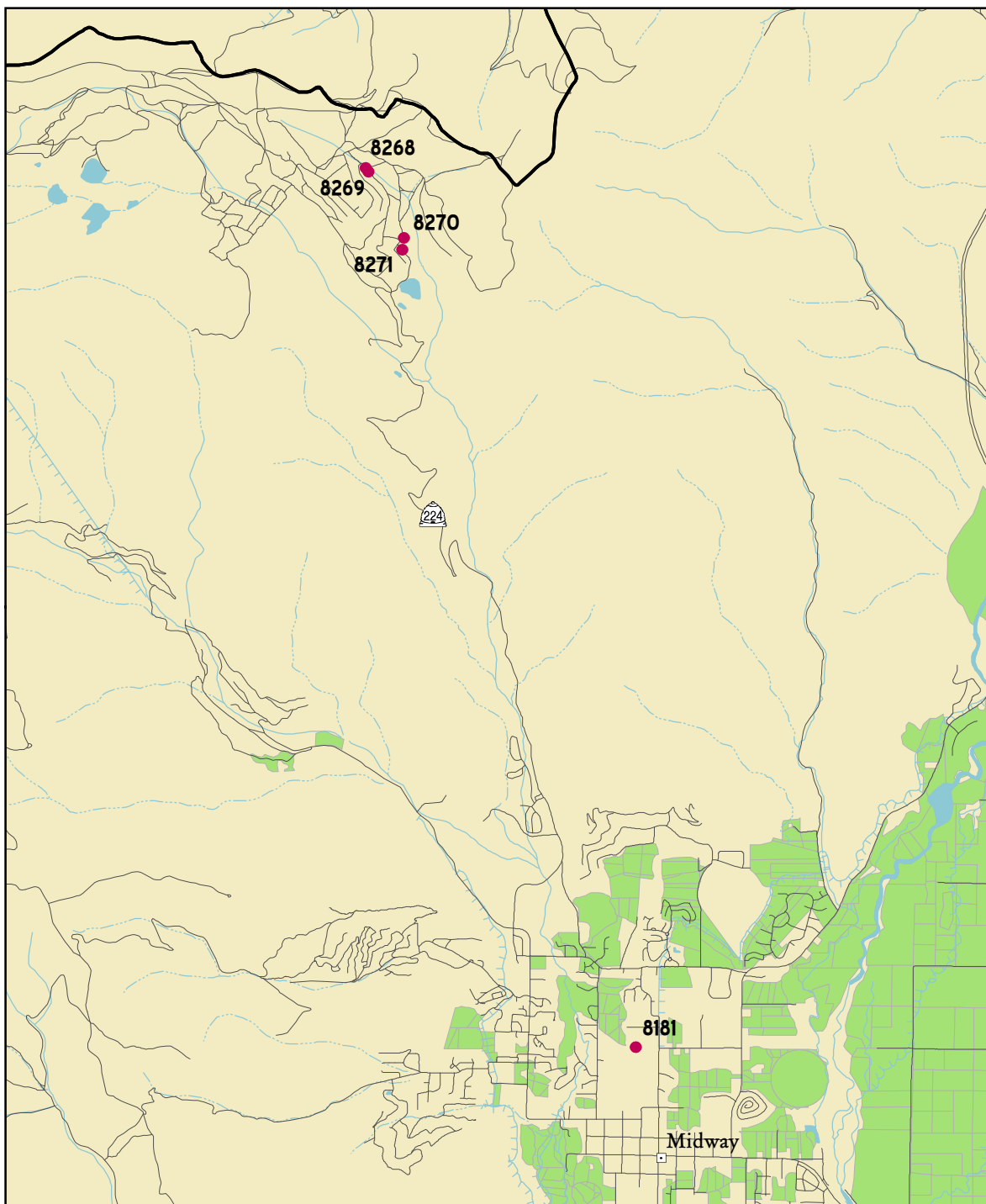
### Drinking Water Secondary Standards:

| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8181      | 8/20/2008   | ND         | ND         | 107.6012   | 0.0142     | ND        | ND         | 1002.2000    | 0.0072     | 7.2600  | 14.4808    | 613.7298    | 1508.0000   | 0.0103     |
| 2                                   | 8268      | 9/30/2008   | ND         | ND         | ND         | 0.0211     | ND        | 0.0350     | 36.3000      | 0.0057     | 7.2100  | 8.2783     | ND          | 77.0000     | 0.0069     |
| 3                                   | 8269      | 9/30/2008   | ND         | ND         | ND         | 0.0178     | ND        | 0.0128     | 40.9000      | 0.0112     | 6.2700  | 7.6946     | ND          | 70.0000     | 0.0628     |
| 4                                   | 8270      | 9/30/2008   | ND         | ND         | ND         | 0.0111     | ND        | 0.0672     | 116.9000     | 0.0444     | 7.0100  | 9.2560     | 26.9004     | 158.0000    | 0.0264     |
| 5                                   | 8271      | 9/30/2008   | ND         | ND         | ND         | 0.0045     | ND        | ND         | 100.7000     | 0.0062     | 7.0800  | 7.9366     | 25.9308     | 137.0000    | 0.0096     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 0          | 0          | 0         | 0          | 3            | 0          | 1       | 0          | 1           | 1           | 0          |

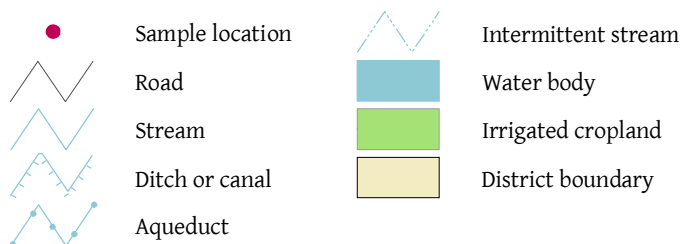
ND - Not Detected



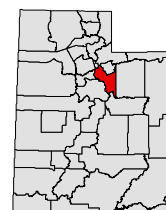
Map 15. Wasatch District



Map Scale 1:63,360 (1 inch = 1 mile)



District Location





## **UACD Zone 4 (Juab, Millard, and Wayne counties, most of Piute, Sanpete and Sevier counties, and a small part of Garfield County)**

One hundred and fourteen (175) sites were sampled in the seven (7) Soil Conservation Districts in Zone 4 during the spring, summer, and fall of 2008. These include the number of samples in the following districts: Twenty-five (25) in Delta, ten (10) in Fremont River, five (5) in Juab, fifty-five (55) in Millard, one (1) in Piute, fifty-four (54) in Sanpete County, and twenty-five (25) in Sevier County districts.

The Statistical Report below shows a summary of the total number of chemical tests collected (Test Count) for each district in Zone 4. The next four columns summarize the number of tests which exceed the standards for either Primary Drinking Water (DW Primary), Secondary Drinking Water (DW Secondary), Irrigation, or Livestock.

### **Ground Water UACD Zone No 4 Statistical Report For the Samples Collected Between: 1/1/2008 And 11/18/2008**

| <b>District Name</b> | <b>Sample Count</b> | <b>Test Count</b> | <b>Test Count Which Result Exceeded Standards</b> |                     |                   |                  |
|----------------------|---------------------|-------------------|---|---------------------|-------------------|------------------|
|                      |                     |                   | <b>DW Primary</b>                                 | <b>DW Secondary</b> | <b>Irrigation</b> | <b>Livestock</b> |
| Delta                | 25                  | 1000              | 19  | 43                  | 84                | 8                |
| Fremont River        | 10                  | 400               | 2   | 22                  | 24                | 4                |
| Juab                 | 5                   | 200               | 3   | 17                  | 23                | 5                |
| Millard              | 55                  | 2200              | 16  | 140                 | 189               | 24               |
| Piute Co.            | 1                   | 40                | 0   | 3                   | 3                 | 1                |
| Sanpete Co.          | 54                  | 2160              | 25  | 135                 | 202               | 39               |
| Sevier Co.           | 25                  | 1000              | 12  | 67                  | 77                | 17               |
| <b>Zone Totals:</b>  | <b>175</b>          | <b>7000</b>       | <b>77</b>   | <b>427</b>          | <b>602</b>        | <b>98</b>        |

Detailed tables follow covering the above water quality categories - General, Irrigation, Livestock, and Culinary (which includes Primary Drinking Water Standards and Secondary Drinking Water Standards) for each district along with a map(s). For the Irrigation, Livestock, and Culinary tables the first row lists the explicit standard for each element or compound (column). The standards for irrigation and livestock originated from the Water quality for agriculture 29 Revision 1, published by the Food and Agriculture Organization of the United Nations. The drinking water primary and secondary standards are from the State of Utah's water quality standards. Below the standards are the column headings (expressed as the chemical abbreviation) for each element or compound tested. Units used in measuring the concentrations of each element or compound are found below each abbreviation. Each row of the table is a single sample identified with a sample number. This sample number shows the sampling location on the map(s) located after the chemistry tables. Highlighted sample results show samples that exceed a standard for that element or compound. Totals at the bottom of each table show how many samples in each column exceeded the standard for that column. The value "ND" indicates that a particular element or compound was "Not Detected" for a given sample.

**General:**

|    | Sample No | Collected Date | Coliform | Ecoli | Temperature     | EC  | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head  | Material | Casing Condition | Cullinary                           | Irrigation                          | Industrial               | Landscape                | Natural                  | Drainage                    | Other                    |
|----|-----------|----------------|----------|-------|-----------------|-----|----------|-----------|---------------|-------------|----------------|------------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|
| 1  | 8080      | 6/24/2008      | ND       | ND    | 59.4 F (15.2 C) | 505 | 301.0    | 1.700     | 148.0         | Well        | Clean          | Soil       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 2  | 8081      | 6/24/2008      | POS      | ND    | 63.0 F (17.2 C) | 509 | 293.0    | 2.600     | 106.9         | Well        | Clean          | Soil       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 3  | 8082      | 6/24/2008      | ND       | ND    | 63.0 F (17.2 C) | 394 | 234.0    | 1.800     | 101.3         | Well        | Vegetated      | Lawn       | PVC      | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 4  | 8083      | 6/24/2008      | ND       | ND    | 62.4 F (16.9 C) | 397 | 237.0    | 1.500     | 117.7         | Well        | Clean          | Soil       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 5  | 8084      | 6/24/2008      | ND       | ND    | 60.4 F (15.8 C) | 384 | 234.0    | 2.000     | 91.20         | Well        | Clean          | Soil       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 6  | 8085      | 6/24/2008      | ND       | ND    | 61.9 F (16.6 C) | 367 | 225.0    | 2.100     | 85.40         | Well        | Clean          | Gravel     | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 7  | 8086      | 6/24/2008      | ND       | ND    | 60.6 F (15.9 C) | 369 | 219.0    | 2.400     | 76.40         | Well        | Clean          | Soil       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 8  | 8087      | 6/24/2008      | ND       | ND    | 64.8 F (18.2 C) | 347 | 217.0    | 2.000     | 83.10         | Well        | Clean          | Soil       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 9  | 8088      | 6/24/2008      | ND       | ND    | 64.0 F (17.8 C) | 363 | 231.0    | 2.400     | 75.20         | Well        | Clean          | Soil       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 10 | 8089      | 6/24/2008      | ND       | ND    | 63.9 F (17.7 C) | 343 | 215.0    | 1.600     | 93.80         | Well        |                |            |          |                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 11 | 8090      | 6/24/2008      | ND       | ND    | 76.8 F (24.9 C) | 510 | 319.0    | 2.800     | 102.7         | Well        |                |            |          |                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 12 | 8151      | 7/29/2008      | ND       | ND    | 65.3 F (18.5 C) | 798 | 478.0    | 2.500     | 212.1         | Well        | Clean          | Pit Soil   | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 13 | 8152      | 7/29/2008      | ND       | ND    | 57.7 F (14.3 C) | 629 | 336.0    | 7.700     | 38.70         | Well        | Clean          | Gravel     | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 14 | 8153      | 7/29/2008      | POS      | ND    | 64.2 F (17.9 C) | 656 | 365.0    | 11.10     | 24.40         | Well        | Clean          | Gravel     | Earth    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 15 | 8154      | 7/29/2008      | ND       | ND    | 62.4 F (16.9 C) | 718 | 398.0    | 12.00     | 25.80         | Well        | Clean          | Well House | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 16 | 8155      | 7/29/2008      | ND       | ND    | 62.1 F (16.7 C) | 432 | 244.0    | 3.000     | 70.50         | Well        | Clean          | Soil       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 17 | 8156      | 7/29/2008      | ND       | ND    | 61.7 F (16.5 C) | 662 | 360.0    | 7.500     | 44.00         | Well        | Clean          | Soil       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 18 | 8157      | 7/29/2008      | ND       | ND    | 63.5 F (17.5 C) | 676 | 382.0    | 6.000     | 67.80         | Well        | Vegetated      | Lawn       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 19 | 8158      | 7/29/2008      | ND       | ND    | 63.5 F (17.5 C) | 609 | 332.0    | 8.300     | 32.00         | Well        | Clean          | Gravel     | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
| 20 | 8159      | 7/29/2008      | ND       | ND    | 64.9 F (18.3 C) | 677 | 391.0    | 12.60     | 21.10         | Well        | Clean          | Gravel     | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> </ |                          |

**Irrigation:**

| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                                 | 8080      | 6/30/2008   | ND         | 0.0930       | ND         | 24.2246    | 48.8325    | ND         | ND          | ND         | 0.0071     | ND        | ND         | 195.4060     | 4.1020    | 0.0451     | 21.2318    |
| 2                                 | 8081      | 6/30/2008   | ND         | 0.1032       | ND         | 20.0170    | 61.4088    | ND         | ND          | ND         | 0.0102     | ND        | ND         | 167.7310     | 4.4990    | 0.0447     | 13.7942    |
| 3                                 | 8082      | 6/30/2008   | ND         | 0.0624       | ND         | 16.8096    | 36.2209    | ND         | ND          | ND         | 0.0164     | ND        | ND         | 155.0940     | 3.1862    | 0.0326     | 14.3860    |
| 4                                 | 8083      | 6/30/2008   | ND         | 0.0609       | ND         | 18.8774    | 36.0605    | ND         | ND          | ND         | 0.0152     | ND        | ND         | 158.0890     | 3.4562    | 0.0339     | 17.1189    |
| 5                                 | 8084      | 6/30/2008   | ND         | 0.0611       | ND         | 15.8170    | 36.7984    | ND         | ND          | 0.0006     | 0.0058     | ND        | 0.0119     | 155.4860     | 3.0993    | 0.0392     | 12.5483    |
| 6                                 | 8085      | 6/30/2008   | ND         | 0.0665       | ND         | 17.1239    | 32.8364    | ND         | ND          | ND         | 0.0121     | ND        | 0.0153     | 155.3750     | 2.2643    | 0.0396     | 10.3433    |
| 7                                 | 8086      | 6/30/2008   | ND         | 0.0689       | ND         | 15.8046    | 29.6372    | ND         | ND          | ND         | 0.0048     | ND        | 0.0902     | 158.8040     | 2.1049    | 0.0381     | 8.9550     |
| 8                                 | 8087      | 6/30/2008   | ND         | 0.0657       | ND         | 13.9832    | 24.7466    | ND         | ND          | ND         | 0.0084     | ND        | ND         | 177.3610     | 4.0280    | 0.0464     | 11.6909    |
| 9                                 | 8088      | 6/30/2008   | ND         | 0.0953       | ND         | 13.7727    | 23.3568    | ND         | ND          | ND         | 0.0089     | ND        | ND         | 194.0690     | 6.6102    | 0.0703     | 9.9028     |
| 10                                | 8089      | 6/30/2008   | ND         | 0.0734       | ND         | 14.4048    | 20.2817    | ND         | ND          | 0.0031     | 0.0098     | ND        | ND         | 189.2180     | 6.0977    | 0.0598     | 14.0250    |
| 11                                | 8090      | 6/30/2008   | ND         | 0.2881       | ND         | 19.4170    | 19.0885    | ND         | ND          | ND         | 0.0445     | ND        | 0.1216     | 274.3020     | 20.0259   | 0.1533     | 13.1492    |
| 12                                | 8151      | 8/6/2008    | ND         | 0.1125       | ND         | 29.1451    | 149.0448   | ND         | ND          | 0.0007     | 0.0140     | ND        | ND         | 159.7200     | 7.3374    | 0.0737     | 33.7986    |
| 13                                | 8152      | 8/6/2008    | ND         | 0.1533       | ND         | 7.6718     | 76.5793    | ND         | ND          | 0.0006     | 0.0019     | ND        | 0.0978     | 154.5230     | 3.7419    | 0.0515     | 4.7442     |
| 14                                | 8153      | 8/6/2008    | ND         | 0.1530       | ND         | 5.2012     | 79.7496    | ND         | ND          | 0.0007     | 0.0078     | ND        | 0.0700     | 168.4930     | 5.9164    | 0.0619     | 2.7696     |
| 15                                | 8154      | 8/6/2008    | ND         | 0.2593       | ND         | 5.2483     | 73.9294    | ND         | ND          | 0.0008     | 0.0082     | ND        | ND         | 220.7260     | 1.4352    | 0.0260     | 3.0737     |
| 16                                | 8155      | 8/6/2008    | ND         | 0.1021       | ND         | 11.9169    | 35.9296    | ND         | ND          | 0.0006     | 0.0132     | ND        | 0.0269     | 160.1800     | 2.1999    | 0.0309     | 9.8689     |
| 17                                | 8156      | 8/6/2008    | ND         | 0.1669       | ND         | 9.2247     | 78.0896    | ND         | ND          | 0.0006     | 0.0025     | ND        | 0.5554     | 172.0360     | 1.3276    | 0.0278     | 5.0910     |
| 18                                | 8157      | 8/6/2008    | ND         | 0.1841       | ND         | 12.3949    | 85.3239    | ND         | ND          | ND         | 0.0085     | ND        | 0.0364     | 171.1440     | 2.7672    | 0.0392     | 8.9238     |
| 19                                | 8158      | 8/6/2008    | ND         | 0.1502       | ND         | 7.3437     | 63.4049    | ND         | ND          | ND         | 0.0035     | ND        | 0.1271     | 174.8430     | 0.9395    | 0.0217     | 3.3054     |
| 20                                | 8159      | 8/6/2008    | ND         | 0.2979       | ND         | 4.5608     | 60.1820    | ND         | 7.6603      | 0.0008     | 0.0014     | ND        | 0.1061     | 246.6890     | 0.8177    | 0.0283     | 2.3474     |
| 21                                | 8160      | 8/6/2008    | ND         | 0.1889       | ND         | 6.2216     | 39.3287    | ND         | ND          | 0.0009     | 0.0186     | ND        | ND         | 232.0960     | 0.8365    | 0.0184     | 2.8086     |
| 22                                | 8161      | 8/6/2008    | ND         | 0.1590       | ND         | 8.6614     | 46.9946    | ND         | ND          | ND         | 0.0128     | ND        | 0.0405     | 175.0070     | 1.1158    | 0.0239     | 4.9376     |
| 23                                | 8162      | 8/6/2008    | ND         | 0.1514       | ND         | 2.3768     | 34.3957    | ND         | 12.7687     | ND         | 0.0059     | ND        | ND         | 207.5080     | 2.5012    | 0.0548     | 0.9728     |
| 24                                | 8164      | 8/6/2008    | ND         | 0.5346       | ND         | 1.6052     | 38.8568    | ND         | 41.7720     | 0.0012     | 0.0096     | ND        | ND         | 468.5590     | 6.9369    | 0.0617     | 0.8548     |
| 25                                | 8165      | 8/6/2008    | ND         | 1.1050       | ND         | 2.9999     | 60.4561    | ND         | 20.3045     | 0.0016     | 0.0023     | ND        | 0.0426     | 457.2530     | 2.1389    | 0.0335     | 2.4958     |
| Test Count that Exceeded Standard |           |             | 0          | 2            | 0          | 0          | 6          | 0          | 0           | 0          | 0          | 0         | 0          | 25           | 0         | 0          | 0          |

ND - Not Detected



| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8080      | 6/30/2008   | 0.0146     | 0.0019     | 47.8542    | ND         | ND         | ND          | 1.7000       | ND         | 301.0000    | 0.0084    | 0.0224     |
| 2                                  | 8081      | 6/30/2008   | 0.0021     | 0.0028     | 62.1822    | ND         | ND         | ND          | 2.6000       | ND         | 293.0000    | 0.0054    | 0.0052     |
| 3                                  | 8082      | 6/30/2008   | 0.0102     | 0.0014     | 41.5350    | ND         | ND         | ND          | 1.8000       | ND         | 234.0000    | 0.0086    | 0.0079     |
| 4                                  | 8083      | 6/30/2008   | 0.0153     | 0.0014     | 36.6496    | ND         | ND         | ND          | 1.5000       | ND         | 237.0000    | 0.0105    | 0.0109     |
| 5                                  | 8084      | 6/30/2008   | 0.0112     | 0.0013     | 44.4780    | 0.0012     | ND         | ND          | 2.0000       | ND         | 234.0000    | 0.0025    | 0.0068     |
| 6                                  | 8085      | 6/30/2008   | 0.0094     | 0.0012     | 44.3428    | ND         | ND         | ND          | 2.1000       | ND         | 225.0000    | ND        | 0.0117     |
| 7                                  | 8086      | 6/30/2008   | 0.0090     | 0.0012     | 47.3556    | ND         | ND         | ND          | 2.4000       | ND         | 219.0000    | ND        | ND         |
| 8                                  | 8087      | 6/30/2008   | 0.0007     | 0.0010     | 41.9865    | ND         | ND         | ND          | 2.0000       | ND         | 217.0000    | 0.0090    | 0.0053     |
| 9                                  | 8088      | 6/30/2008   | 0.0104     | 0.0011     | 47.8774    | ND         | ND         | ND          | 2.4000       | ND         | 231.0000    | 0.0170    | 0.0097     |
| 10                                 | 8089      | 6/30/2008   | 0.0005     | 0.0006     | 35.2183    | ND         | ND         | ND          | 1.6000       | ND         | 215.0000    | 0.0245    | 0.0072     |
| 11                                 | 8090      | 6/30/2008   | 0.0075     | 0.0016     | 64.0675    | ND         | ND         | ND          | 2.8000       | ND         | 319.0000    | 0.0067    | 0.0109     |
| 12                                 | 8151      | 8/6/2008    | 0.0234     | 0.0018     | 84.1465    | ND         | 0.0013     | ND          | 2.5000       | ND         | 478.0000    | 0.0251    | 0.0123     |
| 13                                 | 8152      | 8/6/2008    | 0.0085     | 0.0030     | 109.9727   | ND         | ND         | ND          | 7.7000       | ND         | 336.0000    | ND        | ND         |
| 14                                 | 8153      | 8/6/2008    | 0.0056     | 0.0025     | 125.6311   | ND         | ND         | ND          | 11.1000      | ND         | 365.0000    | ND        | ND         |
| 15                                 | 8154      | 8/6/2008    | 0.0038     | 0.0055     | 139.8974   | ND         | ND         | ND          | 12.0000      | ND         | 398.0000    | ND        | 0.0420     |
| 16                                 | 8155      | 8/6/2008    | 0.0062     | 0.0018     | 57.4728    | ND         | ND         | ND          | 3.0000       | ND         | 244.0000    | 0.0046    | 0.0084     |
| 17                                 | 8156      | 8/6/2008    | 0.0154     | 0.0048     | 115.0709   | ND         | ND         | ND          | 7.5000       | ND         | 360.0000    | ND        | 0.1505     |
| 18                                 | 8157      | 8/6/2008    | 0.0112     | 0.0053     | 113.5822   | ND         | ND         | ND          | 6.0000       | ND         | 382.0000    | ND        | 0.0033     |
| 19                                 | 8158      | 8/6/2008    | 0.0098     | 0.0046     | 107.9843   | ND         | ND         | ND          | 8.3000       | ND         | 332.0000    | ND        | ND         |
| 20                                 | 8159      | 8/6/2008    | 0.0043     | 0.0042     | 132.4198   | ND         | ND         | ND          | 12.6000      | ND         | 391.0000    | ND        | ND         |
| 21                                 | 8160      | 8/6/2008    | 0.0042     | 0.0032     | 98.1249    | ND         | ND         | ND          | 8.2000       | ND         | 303.0000    | ND        | 0.0032     |
| 22                                 | 8161      | 8/6/2008    | 0.0110     | 0.0041     | 78.9038    | ND         | ND         | ND          | 5.3000       | ND         | 279.0000    | ND        | 0.0361     |
| 23                                 | 8162      | 8/6/2008    | 0.0032     | 0.0031     | 95.2380    | ND         | ND         | ND          | 13.1000      | ND         | 293.0000    | ND        | ND         |
| 24                                 | 8164      | 8/6/2008    | 0.0011     | 0.0073     | 194.3196   | ND         | ND         | ND          | 30.8000      | ND         | 574.0000    | ND        | ND         |
| 25                                 | 8165      | 8/6/2008    | 0.0024     | 0.0072     | 192.6892   | ND         | ND         | ND          | 19.9000      | ND         | 550.0000    | ND        | ND         |
| Test Count that Exceeded Standard: |           |             | 0          | 0          | 13         | 0          | 0          | 0           | 13           | 0          | 25          | 0         | 0          |

ND - Not Detected



**Livestock:**

| Livestock Standards               |           |             | 5          | 0.2        | 5         | .1         | 0.05       | 1          | 1          | .5         | 2         | 10         | 440         | .1         | 5.5-8.3 | .05        | 167;333     | 1000;3000;  | 25         |
|-----------------------------------|-----------|-------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                 | 8080      | 6/30/2008   | ND         | 0.0062     | 0.0930    | ND         | ND         | ND         | ND         | 0.0071     | ND        | ND         | ND          | ND         | 7.9500  | ND         | 45.4401     | 301.0000    | 0.0224     |
| 2                                 | 8081      | 6/30/2008   | ND         | 0.0142     | 0.1032    | ND         | ND         | ND         | ND         | 0.0102     | ND        | ND         | ND          | ND         | 7.9700  | ND         | 30.7776     | 293.0000    | 0.0052     |
| 3                                 | 8082      | 6/30/2008   | ND         | 0.0088     | 0.0624    | ND         | ND         | ND         | ND         | 0.0164     | ND        | ND         | ND          | ND         | 7.8000  | ND         | 34.0266     | 234.0000    | 0.0075     |
| 4                                 | 8083      | 6/30/2008   | ND         | 0.0068     | 0.0609    | ND         | ND         | ND         | ND         | 0.0152     | ND        | ND         | ND          | ND         | 7.9200  | ND         | 34.4690     | 237.0000    | 0.0105     |
| 5                                 | 8084      | 6/30/2008   | ND         | 0.0082     | 0.0611    | ND         | ND         | ND         | 0.0006     | 0.0058     | ND        | ND         | ND          | ND         | 8.0200  | ND         | 34.3733     | 234.0000    | 0.0068     |
| 6                                 | 8085      | 6/30/2008   | ND         | 0.0144     | 0.0665    | ND         | ND         | ND         | ND         | 0.0121     | ND        | ND         | ND          | ND         | 7.9100  | ND         | 31.1195     | 225.0000    | 0.0117     |
| 7                                 | 8086      | 6/30/2008   | ND         | 0.0110     | 0.0689    | ND         | ND         | ND         | ND         | 0.0048     | ND        | ND         | ND          | ND         | 8.1900  | ND         | 26.7900     | 219.0000    | ND         |
| 8                                 | 8087      | 6/30/2008   | ND         | 0.0072     | 0.0657    | ND         | ND         | ND         | ND         | 0.0084     | ND        | ND         | ND          | ND         | 8.0500  | ND         | 19.3332     | 217.0000    | 0.0055     |
| 9                                 | 8088      | 6/30/2008   | ND         | 0.0133     | 0.0953    | ND         | ND         | ND         | ND         | 0.0089     | ND        | ND         | ND          | ND         | 8.0900  | ND         | 19.1821     | 231.0000    | 0.0097     |
| 10                                | 8089      | 6/30/2008   | ND         | 0.0091     | 0.0734    | ND         | ND         | ND         | 0.0031     | 0.0098     | ND        | ND         | ND          | ND         | 8.0500  | ND         | 15.4905     | 215.0000    | 0.0072     |
| 11                                | 8090      | 6/30/2008   | ND         | 0.0112     | 0.2881    | ND         | ND         | ND         | ND         | 0.0445     | ND        | ND         | ND          | ND         | 8.0400  | ND         | 28.3025     | 319.0000    | 0.0105     |
| 12                                | 8151      | 8/6/2008    | ND         | 0.0245     | 0.1125    | ND         | ND         | ND         | 0.0007     | 0.0140     | ND        | ND         | ND          | 0.0013     | 8.1700  | ND         | 75.8938     | 478.0000    | 0.0125     |
| 13                                | 8152      | 8/6/2008    | ND         | 0.0715     | 0.1533    | ND         | ND         | ND         | 0.0006     | 0.0019     | ND        | ND         | ND          | ND         | 8.3600  | ND         | 48.4436     | 336.0000    | ND         |
| 14                                | 8153      | 8/6/2008    | ND         | 0.0595     | 0.1530    | ND         | ND         | ND         | 0.0007     | 0.0078     | ND        | ND         | ND          | ND         | 8.3300  | ND         | 55.2479     | 365.0000    | ND         |
| 15                                | 8154      | 8/6/2008    | ND         | 0.0972     | 0.2593    | ND         | ND         | ND         | 0.0008     | 0.0082     | ND        | ND         | ND          | ND         | 8.3000  | ND         | 51.4532     | 398.0000    | 0.0420     |
| 16                                | 8155      | 8/6/2008    | ND         | 0.0159     | 0.1021    | ND         | ND         | ND         | 0.0006     | 0.0132     | ND        | ND         | ND          | ND         | 8.0900  | ND         | 36.9291     | 244.0000    | 0.0084     |
| 17                                | 8156      | 8/6/2008    | ND         | 0.0274     | 0.1669    | ND         | ND         | ND         | 0.0006     | 0.0025     | ND        | ND         | ND          | ND         | 8.2600  | ND         | 57.5363     | 360.0000    | 0.1505     |
| 18                                | 8157      | 8/6/2008    | ND         | 0.0149     | 0.1841    | ND         | ND         | ND         | ND         | 0.0085     | ND        | ND         | ND          | ND         | 8.1000  | ND         | 65.0055     | 382.0000    | 0.0035     |
| 19                                | 8158      | 8/6/2008    | ND         | 0.0398     | 0.1502    | ND         | ND         | ND         | ND         | 0.0035     | ND        | ND         | ND          | ND         | 8.2800  | ND         | 52.7680     | 332.0000    | ND         |
| 20                                | 8159      | 8/6/2008    | ND         | 0.0674     | 0.2979    | ND         | ND         | ND         | 0.0008     | 0.0014     | ND        | ND         | ND          | ND         | 8.4100  | ND         | 51.7373     | 391.0000    | ND         |
| 21                                | 8160      | 8/6/2008    | ND         | 0.0641     | 0.1889    | ND         | ND         | ND         | 0.0009     | 0.0186     | ND        | ND         | ND          | ND         | 8.2900  | ND         | 31.2688     | 303.0000    | 0.0032     |
| 22                                | 8161      | 8/6/2008    | ND         | 0.0591     | 0.1590    | ND         | ND         | ND         | ND         | 0.0128     | ND        | ND         | ND          | ND         | 8.0900  | ND         | 44.2209     | 279.0000    | 0.0361     |
| 23                                | 8162      | 8/6/2008    | ND         | 0.0433     | 0.1514    | ND         | ND         | ND         | ND         | 0.0059     | ND        | ND         | ND          | ND         | 8.5600  | ND         | 32.2660     | 293.0000    | ND         |
| 24                                | 8164      | 8/6/2008    | ND         | 0.1170     | 0.5346    | ND         | ND         | ND         | 0.0012     | 0.0096     | ND        | ND         | ND          | ND         | 8.7100  | ND         | 36.7559     | 574.0000    | ND         |
| 25                                | 8165      | 8/6/2008    | ND         | 0.4142     | 1.1050    | ND         | ND         | ND         | 0.0016     | 0.0023     | ND        | ND         | ND          | ND         | 8.5200  | ND         | 33.5395     | 550.0000    | ND         |
| Test Count that Exceeded Standard |           |             | 0          | 1          | 0         | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0           | 0          | 7       | 0          | 0           | 0           | 0          |

ND - Not Detected

**Culinary:**

| Drinking Water Primary Standard   |             |           | 0.01       | 2          | 0.004      | 0.005      | 25           | 0.1        | 1.3        | 4         | 2          | 10000      | 1000       | 44.3        | .015       | .05        | 500         | 2000        |
|-----------------------------------|-------------|-----------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|
| Sample No                         | Tested Date |           | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |
| 1                                 | 8080        | 6/30/2008 | 0.0062     | 0.0882     | ND         | ND         | ND           | ND         | 0.0071     | ND        | ND         | 47.8542    | ND         | ND          | ND         | ND         | 45.4401     | 301.0000    |
| 2                                 | 8081        | 6/30/2008 | 0.0142     | 0.0985     | ND         | ND         | ND           | ND         | 0.0102     | ND        | ND         | 62.1822    | ND         | ND          | ND         | ND         | 30.7776     | 293.0000    |
| 3                                 | 8082        | 6/30/2008 | 0.0088     | 0.0847     | ND         | ND         | ND           | ND         | 0.0164     | ND        | ND         | 41.5350    | ND         | ND          | ND         | ND         | 34.0266     | 234.0000    |
| 4                                 | 8083        | 6/30/2008 | 0.0068     | 0.1221     | ND         | ND         | ND           | ND         | 0.0152     | ND        | ND         | 36.6496    | ND         | ND          | ND         | ND         | 34.4690     | 237.0000    |
| 5                                 | 8084        | 6/30/2008 | 0.0082     | 0.0761     | ND         | ND         | ND           | 0.0006     | 0.0058     | ND        | ND         | 44.4780    | 0.0012     | ND          | ND         | ND         | 34.3733     | 234.0000    |
| 6                                 | 8085        | 6/30/2008 | 0.0144     | 0.0892     | ND         | ND         | ND           | ND         | 0.0121     | ND        | ND         | 44.3428    | ND         | ND          | ND         | ND         | 31.1195     | 225.0000    |
| 7                                 | 8086        | 6/30/2008 | 0.0110     | 0.0715     | ND         | ND         | ND           | ND         | 0.0048     | ND        | ND         | 47.3556    | ND         | ND          | ND         | ND         | 26.7900     | 219.0000    |
| 8                                 | 8087        | 6/30/2008 | 0.0072     | 0.1394     | ND         | ND         | ND           | ND         | 0.0084     | ND        | ND         | 41.9865    | ND         | ND          | ND         | ND         | 19.3332     | 217.0000    |
| 9                                 | 8088        | 6/30/2008 | 0.0133     | 0.0977     | ND         | ND         | ND           | ND         | 0.0089     | ND        | ND         | 47.8774    | ND         | ND          | ND         | ND         | 19.1821     | 231.0000    |
| 10                                | 8089        | 6/30/2008 | 0.0091     | 0.1303     | ND         | ND         | ND           | 0.0031     | 0.0098     | ND        | ND         | 35.2183    | ND         | ND          | ND         | ND         | 15.4905     | 215.0000    |
| 11                                | 8090        | 6/30/2008 | 0.0112     | 0.0786     | ND         | ND         | ND           | ND         | 0.0445     | ND        | ND         | 64.0675    | ND         | ND          | ND         | ND         | 28.3025     | 319.0000    |
| 12                                | 8151        | 8/6/2008  | 0.0245     | 0.0526     | ND         | ND         | ND           | 0.0007     | 0.0140     | ND        | ND         | 84.1465    | ND         | ND          | 0.0013     | ND         | 75.8938     | 478.0000    |
| 13                                | 8152        | 8/6/2008  | 0.0715     | 0.0133     | ND         | ND         | ND           | 0.0006     | 0.0019     | ND        | ND         | 109.9727   | ND         | ND          | ND         | ND         | 48.4436     | 336.0000    |
| 14                                | 8153        | 8/6/2008  | 0.0595     | 0.0310     | ND         | ND         | ND           | 0.0007     | 0.0078     | ND        | ND         | 125.6311   | ND         | ND          | ND         | ND         | 55.2479     | 365.0000    |
| 15                                | 8154        | 8/6/2008  | 0.0972     | 0.0265     | ND         | ND         | ND           | 0.0008     | 0.0082     | ND        | ND         | 139.8974   | ND         | ND          | ND         | ND         | 51.4532     | 398.0000    |
| 16                                | 8155        | 8/6/2008  | 0.0159     | 0.0584     | ND         | ND         | ND           | 0.0006     | 0.0132     | ND        | ND         | 57.4728    | ND         | ND          | ND         | ND         | 36.9291     | 244.0000    |
| 17                                | 8156        | 8/6/2008  | 0.0274     | 0.0531     | ND         | ND         | ND           | 0.0006     | 0.0025     | ND        | ND         | 115.0709   | ND         | ND          | ND         | ND         | 57.5363     | 360.0000    |
| 18                                | 8157        | 8/6/2008  | 0.0149     | 0.0685     | ND         | ND         | ND           | ND         | 0.0085     | ND        | ND         | 113.5822   | ND         | ND          | ND         | ND         | 65.0055     | 382.0000    |
| 19                                | 8158        | 8/6/2008  | 0.0398     | 0.0298     | ND         | ND         | ND           | ND         | 0.0035     | ND        | ND         | 107.9843   | ND         | ND          | ND         | ND         | 52.7680     | 332.0000    |
| 20                                | 8159        | 8/6/2008  | 0.0674     | 0.0264     | ND         | ND         | ND           | 0.0008     | 0.0014     | ND        | ND         | 132.4198   | ND         | ND          | ND         | ND         | 51.7373     | 391.0000    |
| 21                                | 8160        | 8/6/2008  | 0.0641     | 0.0238     | ND         | ND         | ND           | 0.0009     | 0.0186     | ND        | ND         | 98.1249    | ND         | ND          | ND         | ND         | 31.2688     | 303.0000    |
| 22                                | 8161        | 8/6/2008  | 0.0591     | 0.0567     | ND         | ND         | ND           | ND         | 0.0128     | ND        | ND         | 78.9038    | ND         | ND          | ND         | ND         | 44.2209     | 279.0000    |
| 23                                | 8162        | 8/6/2008  | 0.0433     | 0.0142     | ND         | ND         | ND           | ND         | 0.0059     | ND        | ND         | 95.2380    | ND         | ND          | ND         | ND         | 32.2660     | 293.0000    |
| 24                                | 8164        | 8/6/2008  | 0.1170     | 0.0125     | ND         | ND         | ND           | 0.0012     | 0.0096     | ND        | ND         | 194.3196   | ND         | ND          | ND         | ND         | 36.7559     | 574.0000    |
| 25                                | 8165        | 8/6/2008  | 0.4142     | 0.0259     | ND         | ND         | ND           | 0.0016     | 0.0023     | ND        | ND         | 192.6892   | ND         | ND          | ND         | ND         | 33.5395     | 550.0000    |
| Test Count that Exceeded Standard |             |           | 19         | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0           |

ND - Not Detected

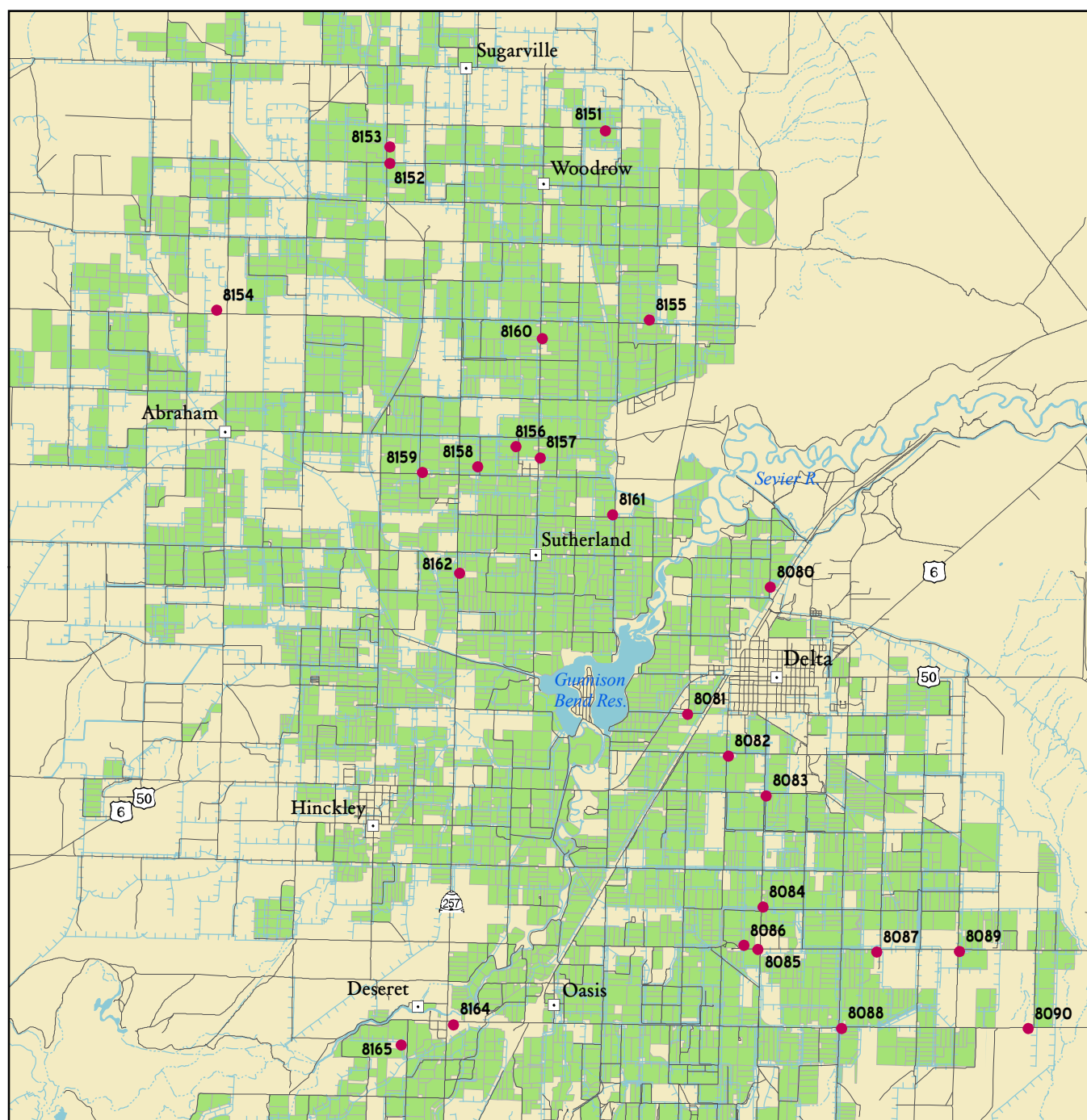


**Drinking Water Secondary Standards:**

|                                    | Sample No | Tested Date | 0.1<br>Ag<br>mg/L | 0.5<br>Al<br>mg/L | 250<br>Cl<br>mg/L | 1<br>Cu<br>mg/L | 2<br>F<br>mg/L | 0.3<br>Fe<br>mg/L | 60;120;180<br>Hardnes<br>s | .05<br>Mn<br>mg/L | 6.5-8.5<br>pH<br>- | 1000<br>Si<br>mg/L | 250<br>SO4<br>mg/L | 200<br>TDS<br>mg/L | 5<br>Zn<br>mg/L |
|------------------------------------|-----------|-------------|-------------------|-------------------|-------------------|-----------------|----------------|-------------------|----------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-----------------|
| 1                                  | 8080      | 6/30/2008   | ND                | ND                | 48.8325           | 0.0071          | ND             | ND                | 148.0000                   | 0.0146            | 7.9500             | 12.7055            | 45.4401            | 301.0000           | 0.0224          |
| 2                                  | 8081      | 6/30/2008   | ND                | ND                | 61.4088           | 0.0102          | ND             | ND                | 106.9000                   | 0.0021            | 7.9700             | 16.5389            | 30.7776            | 293.0000           | 0.0052          |
| 3                                  | 8082      | 6/30/2008   | ND                | ND                | 36.2209           | 0.0164          | ND             | ND                | 101.3000                   | 0.0102            | 7.8000             | 10.8028            | 34.0266            | 234.0000           | 0.0079          |
| 4                                  | 8083      | 6/30/2008   | ND                | ND                | 36.0605           | 0.0152          | ND             | ND                | 117.7000                   | 0.0153            | 7.9200             | 11.0046            | 34.4690            | 237.0000           | 0.0109          |
| 5                                  | 8084      | 6/30/2008   | ND                | ND                | 36.7984           | 0.0058          | ND             | 0.0119            | 91.2000                    | 0.0112            | 8.0200             | 10.1290            | 34.3733            | 234.0000           | 0.0068          |
| 6                                  | 8085      | 6/30/2008   | ND                | ND                | 32.8364           | 0.0121          | ND             | 0.0153            | 85.4000                    | 0.0094            | 7.9100             | 10.2861            | 31.1195            | 225.0000           | 0.0117          |
| 7                                  | 8086      | 6/30/2008   | ND                | ND                | 29.6372           | 0.0048          | ND             | 0.0902            | 76.4000                    | 0.0090            | 8.1900             | 9.8721             | 26.7900            | 219.0000           | ND              |
| 8                                  | 8087      | 6/30/2008   | ND                | ND                | 24.7466           | 0.0084          | ND             | ND                | 83.1000                    | 0.0007            | 8.0500             | 12.1749            | 19.3332            | 217.0000           | 0.0053          |
| 9                                  | 8088      | 6/30/2008   | ND                | ND                | 23.3568           | 0.0089          | ND             | ND                | 75.2000                    | 0.0104            | 8.0900             | 14.1012            | 19.1821            | 231.0000           | 0.0097          |
| 10                                 | 8089      | 6/30/2008   | ND                | ND                | 20.2817           | 0.0098          | ND             | ND                | 93.8000                    | 0.0005            | 8.0500             | 14.2024            | 15.4905            | 215.0000           | 0.0072          |
| 11                                 | 8090      | 6/30/2008   | ND                | ND                | 19.0885           | 0.0445          | ND             | 0.1216            | 102.7000                   | 0.0075            | 8.0400             | 20.0065            | 28.3025            | 319.0000           | 0.0109          |
| 12                                 | 8151      | 8/6/2008    | ND                | ND                | 149.0448          | 0.0140          | ND             | ND                | 212.1000                   | 0.0234            | 8.1700             | 16.1958            | 75.8938            | 478.0000           | 0.0123          |
| 13                                 | 8152      | 8/6/2008    | ND                | ND                | 76.5793           | 0.0019          | ND             | 0.0978            | 38.7000                    | 0.0085            | 8.3600             | 8.7285             | 48.4436            | 336.0000           | ND              |
| 14                                 | 8153      | 8/6/2008    | ND                | ND                | 79.7496           | 0.0078          | ND             | 0.0700            | 24.4000                    | 0.0056            | 8.3300             | 7.6477             | 55.2479            | 365.0000           | ND              |
| 15                                 | 8154      | 8/6/2008    | ND                | ND                | 73.9294           | 0.0082          | ND             | ND                | 25.8000                    | 0.0038            | 8.3000             | 9.0777             | 51.4532            | 398.0000           | 0.0420          |
| 16                                 | 8155      | 8/6/2008    | ND                | ND                | 35.9296           | 0.0132          | ND             | 0.0269            | 70.5000                    | 0.0062            | 8.0900             | 10.6385            | 36.9291            | 244.0000           | 0.0084          |
| 17                                 | 8156      | 8/6/2008    | ND                | ND                | 78.0896           | 0.0025          | ND             | 0.5554            | 44.0000                    | 0.0154            | 8.2600             | 8.9616             | 57.5363            | 360.0000           | 0.1505          |
| 18                                 | 8157      | 8/6/2008    | ND                | ND                | 85.3239           | 0.0085          | ND             | 0.0364            | 67.8000                    | 0.0112            | 8.1000             | 9.7116             | 65.0055            | 382.0000           | 0.0033          |
| 19                                 | 8158      | 8/6/2008    | ND                | ND                | 63.4049           | 0.0035          | ND             | 0.1271            | 32.0000                    | 0.0098            | 8.2800             | 9.9110             | 52.7680            | 332.0000           | ND              |
| 20                                 | 8159      | 8/6/2008    | ND                | ND                | 60.1820           | 0.0014          | ND             | 0.1061            | 21.1000                    | 0.0043            | 8.4100             | 9.7861             | 51.7373            | 391.0000           | ND              |
| 21                                 | 8160      | 8/6/2008    | ND                | ND                | 39.3287           | 0.0186          | ND             | ND                | 27.1000                    | 0.0042            | 8.2900             | 9.9444             | 31.2688            | 303.0000           | 0.0032          |
| 22                                 | 8161      | 8/6/2008    | ND                | ND                | 46.9946           | 0.0128          | ND             | 0.0405            | 42.0000                    | 0.0110            | 8.0900             | 8.4014             | 44.2209            | 279.0000           | 0.0361          |
| 23                                 | 8162      | 8/6/2008    | ND                | ND                | 34.3957           | 0.0059          | ND             | ND                | 9.9000                     | 0.0032            | 8.5600             | 9.8001             | 32.2660            | 293.0000           | ND              |
| 24                                 | 8164      | 8/6/2008    | ND                | ND                | 38.8568           | 0.0096          | ND             | ND                | 7.5000                     | 0.0011            | 8.7100             | 21.1962            | 36.7559            | 574.0000           | ND              |
| 25                                 | 8165      | 8/6/2008    | ND                | ND                | 60.4561           | 0.0023          | ND             | 0.0426            | 17.8000                    | 0.0024            | 8.5200             | 9.4318             | 33.5395            | 550.0000           | ND              |
| Test Count that Exceeded Standard: |           |             | 0                 | 0                 | 0                 | 0               | 0              | 1                 | 14                         | 0                 | 3                  | 0                  | 0                  | 25                 | 0               |

ND - Not Detected

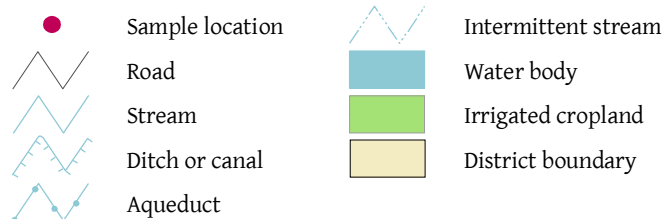
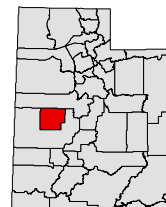
Map 16. Delta District



Map Scale 1:126,720 (1 inch = 2 miles)



District Location





| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                                 | 8303      | 10/16/2008  | ND         | 0.0781       | ND         | 46.0880    | 11.9453    | ND         | ND          | 0.0005     | 0.0203     | ND        | ND         | 204.5740     | 4.0294    | 0.0069     | 10.5927    |
| 2                                 | 8304      | 10/16/2008  | ND         | 0.0979       | ND         | 90.7498    | ND         | ND         | ND          | ND         | 0.0136     | ND        | ND         | 234.1270     | 3.6620    | 0.0071     | 24.1666    |
| 3                                 | 8305      | 10/16/2008  | ND         | 0.1827       | ND         | 300.6957   | 16.3919    | 0.0003     | ND          | 0.0011     | 0.0194     | ND        | ND         | 327.0120     | 5.3268    | 0.0260     | 44.6968    |
| 4                                 | 8306      | 10/16/2008  | ND         | 0.0247       | ND         | 48.4104    | 23.4829    | ND         | ND          | 0.0020     | 0.0132     | ND        | ND         | 171.2720     | 2.0405    | ND         | 12.4055    |
| 5                                 | 8307      | 10/16/2008  | ND         | 0.0174       | ND         | 52.1684    | ND         | ND         | ND          | 0.0005     | 0.0390     | ND        | ND         | 170.5380     | 1.2081    | ND         | 7.5620     |
| 6                                 | 8308      | 10/16/2008  | ND         | 0.0161       | ND         | 55.3397    | ND         | ND         | ND          | ND         | 0.0137     | ND        | ND         | 211.7970     | 1.3091    | 0.0037     | 11.5949    |
| 7                                 | 8309      | 10/16/2008  | ND         | 0.0872       | ND         | 83.9061    | ND         | 0.0005     | ND          | ND         | 0.0192     | ND        | ND         | 185.0690     | 6.7269    | 0.0165     | 24.0794    |
| 8                                 | 8310      | 10/16/2008  | ND         | 0.0850       | ND         | 93.7853    | ND         | ND         | ND          | 0.0010     | 0.2259     | ND        | ND         | 453.2200     | 9.5724    | 0.0107     | 48.0748    |
| 9                                 | 8311      | 10/16/2008  | ND         | 0.0892       | ND         | 70.2968    | ND         | ND         | ND          | 0.0007     | 0.0258     | ND        | ND         | 345.1600     | 7.5331    | 0.0120     | 35.3883    |
| 10                                | 8312      | 10/20/2008  | ND         | 0.3684       | ND         | 405.7804   | 16.6275    | 0.0032     | ND          | 0.0019     | 0.0394     | ND        | 0.0453     | 167.1670     | 4.9276    | 0.1008     | 112.9098   |
| Test Count that Exceeded Standard |           |             | 0          | 0            | 0          | 0          | 0          | 0          | 0           | 0          | 1          | 0         | 0          | 10           | 0         | 0          | 0          |
| ND - Not Detected                 |           |             |            |              |            |            |            |            |             |            |            |           |            |              |           |            |            |

| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8303      | 10/16/2008  | ND         | 0.0015     | 26.4976    | ND         | ND         | ND          | 0.9000       | ND         | 255.0000    | 0.0082    | 0.1238     |
| 2                                  | 8304      | 10/16/2008  | 0.0132     | 0.0006     | 17.0895    | 0.0008     | ND         | ND          | 0.4000       | ND         | 304.0000    | ND        | 0.1541     |
| 3                                  | 8305      | 10/16/2008  | 0.0005     | 0.0010     | 20.6455    | 0.0020     | ND         | ND          | 0.3000       | ND         | 1098.0000   | 0.0072    | 0.0631     |
| 4                                  | 8306      | 10/16/2008  | 0.0003     | 0.0008     | 21.5673    | ND         | ND         | ND          | 0.7000       | ND         | 241.0000    | ND        | 0.0243     |
| 5                                  | 8307      | 10/16/2008  | 0.0011     | ND         | 5.8171     | ND         | ND         | ND          | 0.2000       | ND         | 194.0000    | ND        | 0.0193     |
| 6                                  | 8308      | 10/16/2008  | ND         | ND         | 3.2459     | ND         | ND         | ND          | 0.1000       | ND         | 206.0000    | 0.0023    | 0.0194     |
| 7                                  | 8309      | 10/16/2008  | 0.0415     | 0.0018     | 10.7405    | ND         | ND         | ND          | 0.3000       | ND         | 287.0000    | ND        | 0.1559     |
| 8                                  | 8310      | 10/16/2008  | 0.0012     | 0.0010     | 18.2668    | 0.0013     | ND         | ND          | 0.4000       | ND         | 469.0000    | 0.0042    | 0.2393     |
| 9                                  | 8311      | 10/16/2008  | 0.0008     | 0.0017     | 21.0710    | ND         | ND         | ND          | 0.5000       | ND         | 376.0000    | 0.0050    | 0.0327     |
| 10                                 | 8312      | 10/20/2008  | 0.2063     | 0.0058     | 302.9659   | 0.0037     | ND         | ND          | 3.4000       | ND         | 2423.0000   | ND        | 0.0656     |
| Test Count that Exceeded Standard: |           |             | 1          | 0          | 1          | 0          | 0          | 0           | 1            | 0          | 10          | 0         | 0          |

ND - Not Detected

## Livestock:

| Livestock Standards               |           |             | 5          | 0.2        | 5         | .1         | 0.05       | 1          | 1          | .5         | 2         | 10         | 440         | .1         | 5.5-8.3 | .05        | 167;333     | 1000;3000;  | 25         |
|-----------------------------------|-----------|-------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                 | 8303      | 10/16/2008  | ND         | 0.0094     | 0.0781    | ND         | ND         | ND         | 0.0005     | 0.0203     | ND        | ND         | ND          | ND         | 7.8000  | ND         | 30.6803     | 255.0000    | 0.1238     |
| 2                                 | 8304      | 10/16/2008  | ND         | 0.0026     | 0.0979    | ND         | ND         | ND         | ND         | 0.0136     | ND        | ND         | ND          | ND         | 7.7200  | ND         | 26.0180     | 304.0000    | 0.1541     |
| 3                                 | 8305      | 10/16/2008  | ND         | 0.0058     | 0.1827    | ND         | ND         | 0.0003     | 0.0011     | 0.0194     | ND        | ND         | 35.9202     | ND         | 7.6800  | ND         | 491.1358    | 1098.0000   | 0.0631     |
| 4                                 | 8306      | 10/16/2008  | ND         | ND         | 0.0247    | ND         | ND         | ND         | 0.0020     | 0.0132     | ND        | ND         | ND          | ND         | 7.8600  | ND         | 36.4589     | 241.0000    | 0.0243     |
| 5                                 | 8307      | 10/16/2008  | ND         | 0.0085     | 0.0174    | ND         | ND         | ND         | 0.0005     | 0.0390     | ND        | ND         | ND          | ND         | 7.8700  | ND         | 24.2920     | 194.0000    | 0.0193     |
| 6                                 | 8308      | 10/16/2008  | ND         | 0.0036     | 0.0161    | ND         | ND         | ND         | ND         | 0.0137     | ND        | ND         | ND          | ND         | 7.9600  | ND         | ND          | 206.0000    | 0.0194     |
| 7                                 | 8309      | 10/16/2008  | ND         | ND         | 0.0872    | ND         | ND         | 0.0005     | ND         | 0.0192     | ND        | ND         | ND          | ND         | 7.9100  | ND         | 54.9537     | 287.0000    | 0.1559     |
| 8                                 | 8310      | 10/16/2008  | ND         | 0.0049     | 0.0850    | ND         | ND         | ND         | 0.0010     | 0.2259     | ND        | ND         | ND          | ND         | 7.8100  | ND         | 40.4251     | 469.0000    | 0.2393     |
| 9                                 | 8311      | 10/16/2008  | ND         | 0.0055     | 0.0892    | ND         | ND         | ND         | 0.0007     | 0.0258     | ND        | ND         | ND          | ND         | 7.9200  | ND         | 37.1330     | 376.0000    | 0.0327     |
| 10                                | 8312      | 10/20/2008  | ND         | 0.0019     | 0.3684    | ND         | ND         | 0.0032     | 0.0019     | 0.0394     | ND        | ND         | ND          | ND         | 7.5600  | ND         | 1489.9900   | 2423.0000   | 0.0656     |
| Test Count that Exceeded Standard |           |             | 0          | 0          | 0         | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0           | 0          | 0       | 0          | 2           | 2           | 0          |

ND - Not Detected

**Culinary:**

| Drinking Water Primary Standard:  |      |            | 0.01   | 2      | 0.004 | 0.005 | 25   | 0.1    | 1.3    | 4    | 2    | 10000    | 1000   | 44.3    | .015 | .05  | 500       | 2000      |
|-----------------------------------|------|------------|--------|--------|-------|-------|------|--------|--------|------|------|----------|--------|---------|------|------|-----------|-----------|
|                                   |      |            | As     | Ba     | Be    | Cd    | ClO4 | Cr     | Cu     | F    | Hg   | Na       | Ni     | NO3     | Pb   | Se   | SO4       | TDS       |
|                                   |      |            | mg/L   | mg/L   | mg/L  | mg/L  | ug/L | mg/L   | mg/L   | mg/L | ug/L | mg/L     | mg/L   | mg/L    | mg/L | mg/L | mg/L      | mg/L      |
| 1                                 | 8303 | 10/16/2008 | 0.0094 | 0.0033 | ND    | ND    | ND   | 0.0005 | 0.0203 | ND   | ND   | 26.4976  | ND     | ND      | ND   | ND   | 30.6803   | 255.0000  |
| 2                                 | 8304 | 10/16/2008 | 0.0026 | 0.0134 | ND    | ND    | ND   | ND     | 0.0136 | ND   | ND   | 17.0895  | 0.0008 | ND      | ND   | ND   | 26.0180   | 304.0000  |
| 3                                 | 8305 | 10/16/2008 | 0.0058 | 0.0178 | ND    | ND    | ND   | 0.0011 | 0.0194 | ND   | ND   | 20.6455  | 0.0020 | 35.9202 | ND   | ND   | 491.1358  | 1098.0000 |
| 4                                 | 8306 | 10/16/2008 | ND     | 0.1133 | ND    | ND    | ND   | 0.0020 | 0.0132 | ND   | ND   | 21.5673  | ND     | ND      | ND   | ND   | 36.4589   | 241.0000  |
| 5                                 | 8307 | 10/16/2008 | 0.0085 | 0.0770 | ND    | ND    | ND   | 0.0005 | 0.0390 | ND   | ND   | 5.8171   | ND     | ND      | ND   | ND   | 24.2920   | 194.0000  |
| 6                                 | 8308 | 10/16/2008 | 0.0036 | 0.0335 | ND    | ND    | ND   | ND     | 0.0137 | ND   | ND   | 3.2459   | ND     | ND      | ND   | ND   | ND        | 206.0000  |
| 7                                 | 8309 | 10/16/2008 | ND     | 0.0113 | ND    | ND    | ND   | ND     | 0.0192 | ND   | ND   | 10.7405  | ND     | ND      | ND   | ND   | 54.9537   | 287.0000  |
| 8                                 | 8310 | 10/16/2008 | 0.0049 | 0.0205 | ND    | ND    | ND   | 0.0010 | 0.2259 | ND   | ND   | 18.2668  | 0.0013 | ND      | ND   | ND   | 40.4251   | 469.0000  |
| 9                                 | 8311 | 10/16/2008 | 0.0055 | 0.0074 | ND    | ND    | ND   | 0.0007 | 0.0258 | ND   | ND   | 21.0710  | ND     | ND      | ND   | ND   | 37.1330   | 376.0000  |
| 10                                | 8312 | 10/20/2008 | 0.0019 | 0.0063 | ND    | ND    | ND   | 0.0019 | 0.0394 | ND   | ND   | 302.9659 | 0.0037 | ND      | ND   | ND   | 1489.9900 | 2423.0000 |
| Test Count that Exceeded Standard |      |            | 0      | 0      | 0     | 0     | 0    | 0      | 0      | 0    | 0    | 0        | 0      | 0       | 0    | 0    | 1         | 1         |

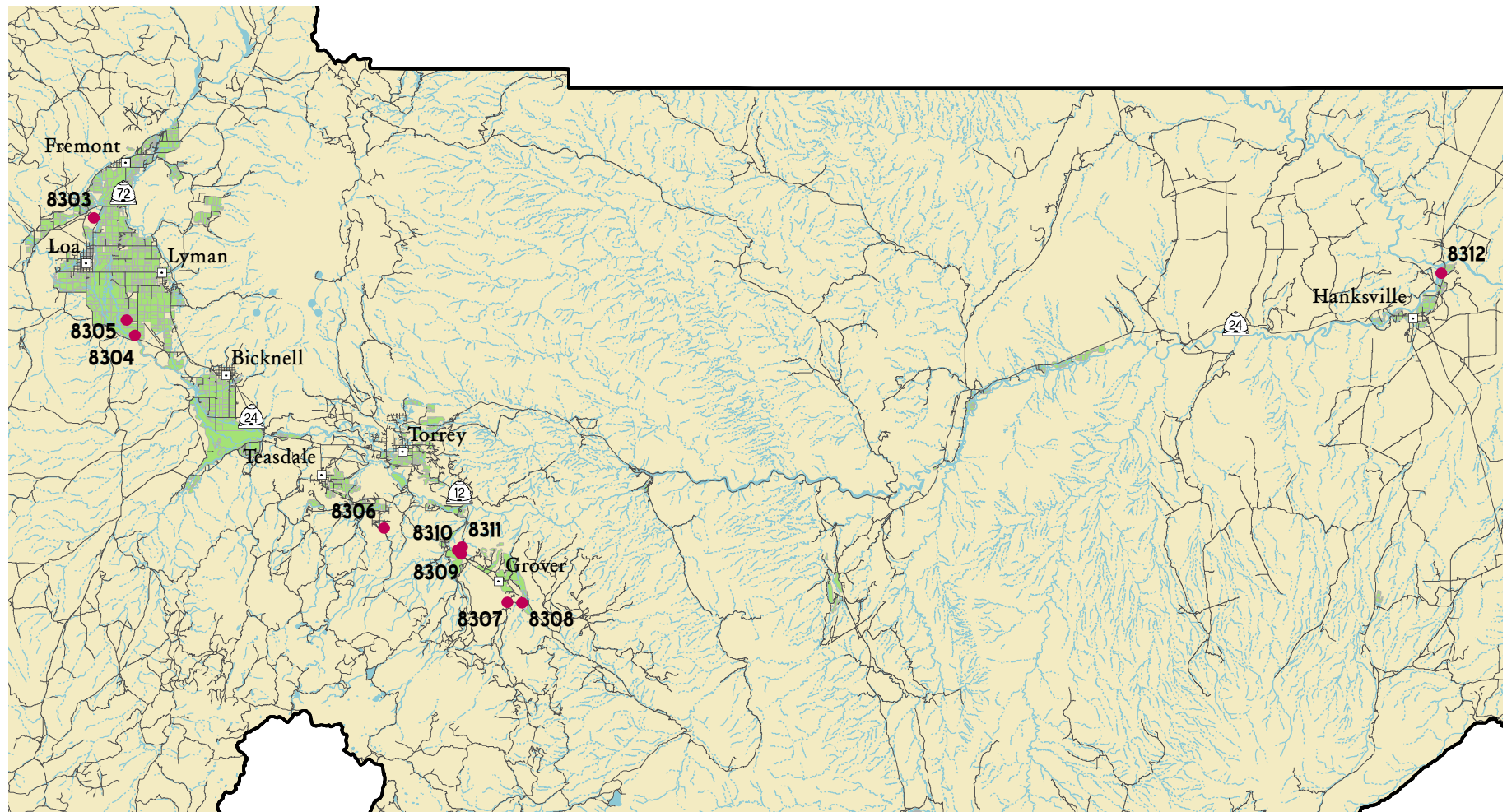
ND - Not Detected

| Drinking Water Secondary Standards: |      |            | 0.1  | 0.5  | 250     | 1      | 2    | 0.3    | 60;120;180 | .05    | 6.5-8.5 | 1000    | 250       | 200       | 5      |
|-------------------------------------|------|------------|------|------|---------|--------|------|--------|------------|--------|---------|---------|-----------|-----------|--------|
|                                     |      |            | Ag   | Al   | Cl      | Cu     | F    | Fe     | Hardnes    | Mn     | pH      | Si      | SO4       | TDS       | Zn     |
|                                     |      |            | mg/L | mg/L | mg/L    | mg/L   | mg/L | mg/L   | s          | mg/L   | -       | mg/L    | mg/L      | mg/L      | mg/L   |
| 1                                   | 8303 | 10/16/2008 | ND   | ND   | 11.9453 | 0.0203 | ND   | ND     | 158.9000   | ND     | 7.8000  | 21.1884 | 30.6803   | 255.0000  | 0.1238 |
| 2                                   | 8304 | 10/16/2008 | ND   | ND   | ND      | 0.0136 | ND   | ND     | 326.4000   | 0.0132 | 7.7200  | 14.0944 | 26.0180   | 304.0000  | 0.1541 |
| 3                                   | 8305 | 10/16/2008 | ND   | ND   | 16.3919 | 0.0194 | ND   | ND     | 935.9000   | 0.0005 | 7.6800  | 21.5562 | 491.1358  | 1098.0000 | 0.0631 |
| 4                                   | 8306 | 10/16/2008 | ND   | ND   | 23.4829 | 0.0132 | ND   | ND     | 172.1000   | 0.0003 | 7.8600  | 8.9274  | 36.4589   | 241.0000  | 0.0243 |
| 5                                   | 8307 | 10/16/2008 | ND   | ND   | ND      | 0.0390 | ND   | ND     | 161.6000   | 0.0011 | 7.8700  | 9.9431  | 24.2920   | 194.0000  | 0.0193 |
| 6                                   | 8308 | 10/16/2008 | ND   | ND   | ND      | 0.0137 | ND   | ND     | 186.1000   | ND     | 7.9600  | 13.4978 | ND        | 206.0000  | 0.0194 |
| 7                                   | 8309 | 10/16/2008 | ND   | ND   | ND      | 0.0192 | ND   | ND     | 309.0000   | 0.0415 | 7.9100  | 9.0115  | 54.9537   | 287.0000  | 0.1559 |
| 8                                   | 8310 | 10/16/2008 | ND   | ND   | ND      | 0.2259 | ND   | ND     | 432.5000   | 0.0012 | 7.8100  | 20.8027 | 40.4251   | 469.0000  | 0.2393 |
| 9                                   | 8311 | 10/16/2008 | ND   | ND   | ND      | 0.0258 | ND   | ND     | 321.5000   | 0.0008 | 7.9200  | 20.4626 | 37.1330   | 376.0000  | 0.0327 |
| 10                                  | 8312 | 10/20/2008 | ND   | ND   | 16.6275 | 0.0394 | ND   | 0.0453 | 1479.6000  | 0.2063 | 7.5600  | 7.2678  | 1489.9900 | 2423.0000 | 0.0656 |
| Test Count that Exceeded Standard:  |      |            | 0    | 0    | 0       | 0      | 0    | 0      | 10         | 1      | 0       | 0       | 2         | 9         | 0      |

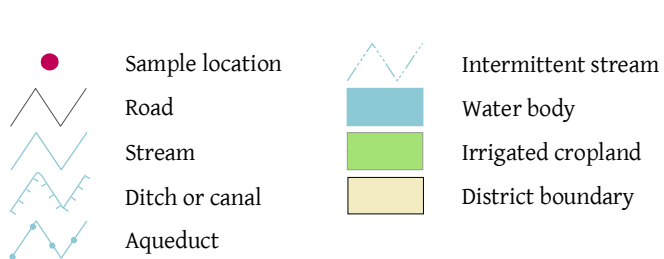
ND - Not Detected



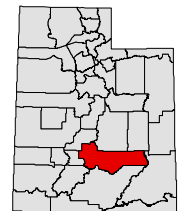
Map 17. Fremont River District



Map Scale 1:380,160 (1 inch = 6 miles)



District Location







## Livestock:

| Livestock Standards               |      |            | 5    | 0.2    | 5      | .1   | 0.05 | 1      | 1      | .5     | 2    | 10   | 440     | .1   | 5.5-8.3 | .05  | 167;333  | 1000;3000; | 25     |
|-----------------------------------|------|------------|------|--------|--------|------|------|--------|--------|--------|------|------|---------|------|---------|------|----------|------------|--------|
|                                   |      |            | Al   | As     | B      | Be   | Cd   | Co     | Cr     | Cu     | F    | Hg   | NO3     | Pb   | pH      | Se   | SO4      | TDS        | Zn     |
|                                   |      |            | mg/L | mg/L   | mg/L   | mg/L | mg/L | mg/L   | mg/L   | mg/L   | mg/L | ug/L | mg/L    | mg/L | -       | mg/L | mg/L     | mg/L       | mg/L   |
| 1                                 | 8068 | 6/19/2008  | ND   | ND     | 0.0550 | ND   | ND   | ND     | 0.0015 | 0.0198 | ND   | ND   | 15.1886 | ND   | 7.6600  | ND   | 56.7679  | 646.0000   | 0.0404 |
| 2                                 | 8069 | 6/30/2008  | ND   | ND     | 0.0906 | ND   | ND   | ND     | ND     | 0.0211 | ND   | ND   | ND      | ND   | 7.6600  | ND   | 78.6886  | 1017.0000  | 0.0998 |
| 3                                 | 8072 | 6/30/2008  | ND   | 0.0083 | 0.2826 | ND   | ND   | 0.0009 | ND     | 0.0110 | ND   | ND   | ND      | ND   | 7.7300  | ND   | 435.6878 | 2148.0000  | 0.0114 |
| 4                                 | 8073 | 6/30/2008  | ND   | 0.0047 | 0.5660 | ND   | ND   | ND     | ND     | 0.0059 | ND   | ND   | 11.8834 | ND   | 7.4100  | ND   | 553.3211 | 3436.0000  | 0.0032 |
| 5                                 | 8317 | 10/23/2008 | ND   | 0.0033 | 0.0764 | ND   | ND   | ND     | 0.0016 | 0.0184 | ND   | ND   | ND      | ND   | 7.9300  | ND   | 30.6601  | 212.0000   | 0.0091 |
| Test Count that Exceeded Standard |      |            | 0    | 0      | 0      | 0    | 0    | 0      | 0      | 0      | 0    | 0    | 0       | 0    | 0       | 0    | 2        | 3          | 0      |

ND - Not Detected

## Culinary:

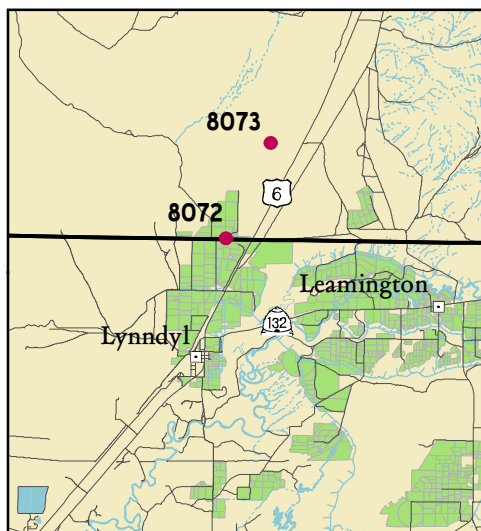
| Drinking Water Primary Standards  |      |            | 0.01   | 2      | 0.004 | 0.005 | 25   | 0.1    | 1.3    | 4    | 2    | 10000    | 1000   | 44.3    | .015 | .05  | 500      | 2000      |
|-----------------------------------|------|------------|--------|--------|-------|-------|------|--------|--------|------|------|----------|--------|---------|------|------|----------|-----------|
|                                   |      |            | As     | Ba     | Be    | Cd    | ClO4 | Cr     | Cu     | F    | Hg   | Na       | Ni     | NO3     | Pb   | Se   | SO4      | TDS       |
|                                   |      |            | mg/L   | mg/L   | mg/L  | mg/L  | ug/L | mg/L   | mg/L   | mg/L | ug/L | mg/L     | mg/L   | mg/L    | mg/L | mg/L | mg/L     | mg/L      |
| 1                                 | 8068 | 6/19/2008  | ND     | 0.1097 | ND    | ND    | ND   | 0.0015 | 0.0198 | ND   | ND   | 95.5091  | 0.0008 | 15.1886 | ND   | ND   | 56.7679  | 646.0000  |
| 2                                 | 8069 | 6/30/2008  | ND     | 0.0827 | ND    | ND    | ND   | ND     | 0.0211 | ND   | ND   | 152.8975 | 0.0010 | ND      | ND   | ND   | 78.6886  | 1017.0000 |
| 3                                 | 8072 | 6/30/2008  | 0.0083 | 0.0651 | ND    | ND    | ND   | ND     | 0.0110 | ND   | ND   | 253.2567 | 0.0018 | ND      | ND   | ND   | 435.6878 | 2148.0000 |
| 4                                 | 8073 | 6/30/2008  | 0.0047 | 0.0231 | ND    | ND    | ND   | ND     | 0.0059 | ND   | ND   | 648.1207 | 0.0017 | 11.8834 | ND   | ND   | 553.3211 | 3436.0000 |
| 5                                 | 8317 | 10/23/2008 | 0.0033 | 0.0269 | ND    | ND    | ND   | 0.0016 | 0.0184 | ND   | ND   | 49.1931  | 0.0030 | ND      | ND   | ND   | 30.6601  | 212.0000  |
| Test Count that Exceeded Standard |      |            | 0      | 0      | 0     | 0     | 0    | 0      | 0      | 0    | 0    | 0        | 0      | 0       | 0    | 0    | 1        | 2         |

ND - Not Detected

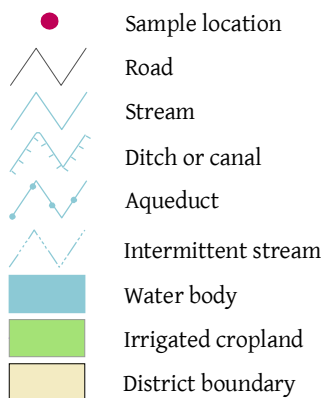
| Drinking Water Secondary Standards: |      |            | 0.1  | 0.5  | 250       | 1      | 2    | 0.3  | 60;120;180 | .05    | 6.5-8.5 | 1000    | 250      | 200       | 5      |
|-------------------------------------|------|------------|------|------|-----------|--------|------|------|------------|--------|---------|---------|----------|-----------|--------|
|                                     |      |            | Ag   | Al   | Cl        | Cu     | F    | Fe   | s          | Mn     | pH      | Si      | SO4      | TDS       | Zn     |
|                                     |      |            | mg/L | mg/L | mg/L      | mg/L   | mg/L | mg/L |            | mg/L   | -       | mg/L    | mg/L     | mg/L      | mg/L   |
| 1                                   | 8068 | 6/19/2008  | ND   | ND   | 123.1678  | 0.0198 | ND   | ND   | 344.4000   | 0.0008 | 7.6600  | 8.5574  | 56.7679  | 646.0000  | 0.0404 |
| 2                                   | 8069 | 6/30/2008  | ND   | ND   | 485.3389  | 0.0211 | ND   | ND   | 515.4000   | 0.0016 | 7.6600  | 9.8116  | 78.6886  | 1017.0000 | 0.0998 |
| 3                                   | 8072 | 6/30/2008  | ND   | ND   | 972.9638  | 0.0110 | ND   | ND   | 1031.5000  | 0.4243 | 7.7300  | 15.6487 | 435.6878 | 2148.0000 | 0.0114 |
| 4                                   | 8073 | 6/30/2008  | ND   | ND   | 1639.6090 | 0.0059 | ND   | ND   | 1301.5000  | 0.0179 | 7.4100  | 16.8086 | 553.3211 | 3436.0000 | 0.0032 |
| 5                                   | 8317 | 10/23/2008 | ND   | ND   | ND        | 0.0184 | ND   | ND   | 81.8000    | 0.0867 | 7.9300  | 5.4207  | 30.6601  | 212.0000  | 0.0091 |
| Test Count that Exceeded Standard:  |      |            | 0    | 0    | 3         | 0      | 0    | 0    | 5          | 2      | 0       | 0       | 2        | 5         | 0      |

ND - Not Detected

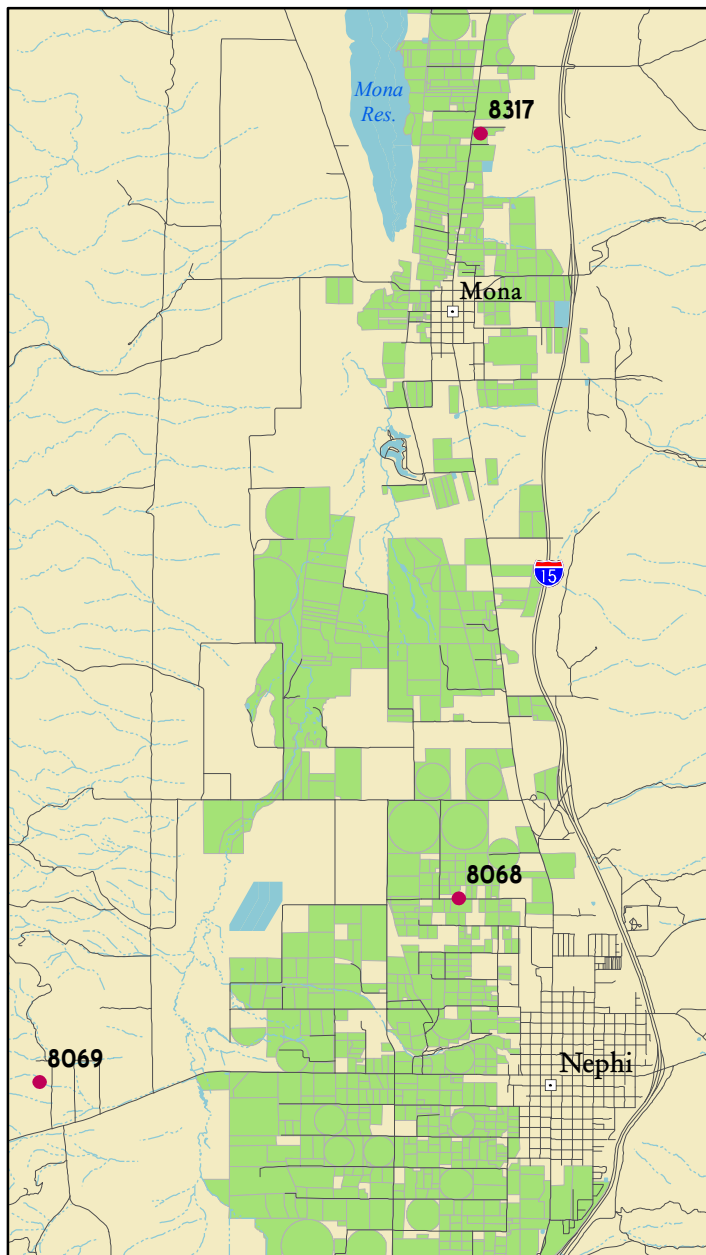
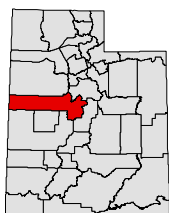
Map 18. Juab District



Map Scale 1:248,266 (1 inch = 4 miles)



District Location



Map Scale 1:116,781 (1 inch = 1.8 miles)



# Millard District

## General:

### General Sample Information

|    | Sample No | Collected Date | Coliform | Ecoli | Temperature     | EC   | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head    | Material | Casing Condition | Culinary                            | Irrigation                          | Industrial               | Landscape                | Natural                  | Drainage                 | Other                    |
|----|-----------|----------------|----------|-------|-----------------|------|----------|-----------|---------------|-------------|----------------|--------------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1  | 8014      | 5/21/2008      | ND       | ND    | 58.3 F (14.6 C) | 583  | 375.0    | 0.700     | 258.7         | Well        | Soil           | Pit Soil     | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2  | 8015      | 5/21/2008      | ND       | ND    | 58.1 F (14.5 C) | 1529 | 1139.    | 3.200     | 458.5         | Well        | Gravel         | Gravel       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3  | 8016      | 5/21/2008      | ND       | ND    | 57.0 F (13.9 C) | 774  | 510.0    | 1.600     | 257.2         | Well        | Vegetated      | Well House   | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4  | 8017      | 5/21/2008      | ND       | ND    | 54.0 F (12.2 C) | 713  | 455.0    | 0.900     | 333.1         | Well        | Vegetated      | Well House   | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5  | 8070      | 6/24/2008      | ND       | ND    | 59.9 F (15.5 C) | 2770 | 1744.    | 1.400     | 1104.         | Well        | Clean          | Pit Concrete | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6  | 8071      | 6/24/2008      | ND       | ND    | 59.2 F (15.1 C) | 3710 | 2493.    | 3.300     | 1284.         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7  | 8074      | 6/24/2008      | ND       | ND    | 63.5 F (17.5 C) | 2830 | 1394.    | 6.500     | 488.3         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8  | 8075      | 6/24/2008      | ND       | ND    | 59.9 F (15.5 C) | 3030 | 1899.    | 6.000     | 692.1         | Well        | Clean          | Covered      | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9  | 8076      | 6/24/2008      | ND       | ND    | 59.2 F (15.1 C) | 656  | 354.0    | 0.700     | 263.7         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 | 8077      | 6/24/2008      | POS      | ND    | 61.2 F (16.2 C) | 634  | 369.0    | 0.800     | 259.9         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11 | 8078      | 6/24/2008      | ND       | ND    | 69.1 F (20.6 C) | 1462 | 936.0    | 2.700     | 486.7         | Well        | Clean          | Natural      | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 | 8079      | 6/24/2008      | ND       | ND    | 57.0 F (13.9 C) | 529  | 314.0    | 0.600     | 235.3         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | 8109      | 7/8/2008       | ND       | ND    | 56.8 F (13.8 C) | 1682 | 1435.    | 1.600     | 1024.         | Well        | Clean          | Soil         | Steel    | Subsidence       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 8110      | 7/8/2008       | ND       | ND    | 54.3 F (12.4 C) | 1109 | 634.0    | 0.800     | 439.6         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15 | 8111      | 7/8/2008       | ND       | ND    | 60.3 F (15.7 C) | 4610 | 2982.    | 4.700     | 1431.         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16 | 8112      | 7/8/2008       | POS      | ND    | 58.3 F (14.6 C) | 691  | 410.0    | 0.600     | 324.1         | Well        | Clean          | Gravel       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17 | 8113      | 7/8/2008       | ND       | ND    | 45.1 F (7.3 C)  | 799  | 468.0    | 0.600     | 388.1         | Well        | Clean          | Soil         | Steel    | Subsidence       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18 | 8114      | 7/8/2008       | POS      | ND    | 57.4 F (14.1 C) | 896  | 505.0    | 1.100     | 379.9         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19 | 8115      | 7/8/2008       | ND       | ND    | 56.8 F (13.8 C) | 723  | 412.0    | 0.700     | 322.4         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 20 | 8116      | 7/8/2008       | POS      | ND    | 58.5 F (14.7 C) | 664  | 411.0    | 0.500     | 333.9         | Well        | Livestock      | Concrete Pad | Steel    | Open             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 21 | 8117      | 7/8/2008       | POS      | ND    | 57.6 F (14.2 C) | 623  | 383.0    | 0.600     | 299.0         | Well        | Vegetated      | Concrete Pad | Steel    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 22 | 8118      | 7/8/2008       | ND       | ND    | 57.6 F (14.2 C) | 623  | 347.0    | 0.500     | 265.1         | Well        | Clean          | Pit Concrete | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 23 | 8119      | 7/8/2008       | ND       | ND    | 64.8 F (18.2 C) | 742  | 455.0    | 1.200     | 303.0         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 24 | 8120      | 7/8/2008       | ND       | ND    | 64.8 F (18.2 C) | 923  | 571.0    | 1.500     | 362.1         | Well        | Clean          | Soil         | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 25 | 8121      | 7/8/2008       | ND       | ND    | 63.5 F (17.5 C) | 839  | 504.0    | 1.100     | 341.3         | Well        | Clean          | Covered      | Steel    | Subsidence       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 26 | 8122      | 7/8/2008       | ND       | ND    | 55.4 F (13.0 C) | 690  | 427.0    | 0.500     | 338.4         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 27 | 8123      | 7/8/2008       | ND       | ND    | 55.6 F (13.1 C) | 699  | 429.0    | 0.500     | 346.6         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 28 | 8124      | 7/8/2008       | ND       | ND    | 55.8 F (13.2 C) | 655  | 400.0    | 0.600     | 313.6         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 29 | 8125      | 7/8/2008       | ND       | ND    | 57.9 F (14.4 C) | 1156 | 657.0    | 1.700     | 428.4         | Well        | Clean          | Lawn         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 30 | 8126      | 7/8/2008       | ND       | ND    | 58.8 F (14.9 C) | 1083 | 760.0    | 1.600     | 404.9         | Well        | Vegetated      | Covered      |          |                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 31 | 8127      | 7/8/2008       | POS      | ND    | 62.4 F (16.9 C) | 671  | 699.0    | 0.600     | 317.0         | Well        | Clean          | Pit Concrete | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 32 | 8128      | 7/8/2008       | ND       | ND    | 56.1 F (13.4 C) | 661  | 407.0    | 0.500     | 322.7         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 33 | 8129      | 7/8/2008       | ND       | ND    | 55.2 F (12.9 C) | 668  | 406.0    | 0.500     | 322.5         | Well        | Clean          | Pit Concrete |          |                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 34 | 8130      | 7/8/2008       | ND       | ND    | 61.0 F (16.1 C) | 1227 | 794.0    | 1.300     | 468.0         | Well        | Clean          | Pit Concrete | Steel    | Open             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 35 | 8131      | 7/15/2008      | ND       | ND    | 57.4 F (14.1 C) | 769  | 500.0    | 2.000     | 273.6         | Well        | Clean          | Gravel       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 36 | 8132      | 7/15/2008      | POS      | POS   | 59.0 F (15.0 C) | 909  | 554.0    | 1.200     | 391.9         | Well        | Vegetated      | Concrete Pad | Steel    | Perforated       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



### General Sample Information

| Sample No                      | Collected Date | Coliform  | Ecoli | Temperatura | EC                | Sample Site | Site Condition | Well Head | Material  | Casing Condition | Cullinary | Irrigation | Industrial                          | Landscape                           | Natural                  | Drainage                 | Other                    |                          |
|--------------------------------|----------------|-----------|-------|-------------|-------------------|-------------|----------------|-----------|-----------|------------------|-----------|------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 37                             | 8133           | 7/15/2008 | ND    | ND          | 59.7 F (15.4 C)   | 1136 823.0  | 1.000 553.6    | Well      | Vegetated | Gravel           | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 38                             | 8134           | 7/15/2008 | POS   | ND          | 57.7 F (14.3 C)   | 1368 908.0  | 1.000 641.9    | Well      | Vegetated | Concrete Pad     | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 39                             | 8135           | 7/15/2008 | ND    | ND          | 57.9 F (14.4 C)   | 873 495.0   | 0.700 400.9    | Well      | Clean     | Concrete Pad     | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 40                             | 8136           | 7/15/2008 | ND    | ND          | 61.2 F (16.2 C)   | 509 300.0   | 0.600 223.2    | Well      | Livestock | Pit Concrete     | Steel     | Sealed     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 41                             | 8137           | 7/15/2008 | ND    | ND          | 63.3 F (17.4 C)   | 637 361.0   | 0.800 272.1    | Well      | Vegetated | Concrete Pad     | Steel     | Perforated | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 42                             | 8138           | 7/15/2008 | ND    | ND          | 63.3 F (17.4 C)   | 780 469.0   | 0.700 380.7    | Well      | Vegetated | Gravel           | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 43                             | 8139           | 7/15/2008 | ND    | ND          | 63.9 F (17.7 C)   | 569 340.0   | 0.500 269.9    | Well      | Vegetated | Soil             | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 44                             | 8140           | 7/15/2008 | ND    | ND          | 65.3 F (18.5 C)   | 1702 1443.  | 1.100 944.5    | Well      | Clean     | Gravel           | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 45                             | 8141           | 7/15/2008 | POS   | ND          | 65.7 F (18.7 C)   | 1222 858.0  | 1.700 480.6    | Well      | Vegetated | Concrete Pad     | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 46                             | 8142           | 7/15/2008 | POS   | ND          | 62.6 F (17.0 C)   | 727 445.0   | 1.000 309.5    | Well      | Vegetated | Concrete Pad     | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 47                             | 8143           | 7/15/2008 | POS   | ND          | 64.0 F (17.8 C)   | 6640 5864.  | 3.500 2324.    | Well      | Vegetated | Gravel           | Steel     | Sealed     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 48                             | 8144           | 7/15/2008 | POS   | ND          | 59.9 F (15.5 C)   | 7210 6317.  | 4.900 2252.    | Well      | Vegetated | Concrete Pad     | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 49                             | 8145           | 7/15/2008 | POS   | POS         | 65.8 F (18.8 C)   | 9910 8850.  | 8.800 2762.    | Well      | Vegetated | Concrete Pad     | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 50                             | 8146           | 7/15/2008 | ND    | ND          | 57.7 F (14.3 C)   | 6230 5304.  | 4.900 2015.    | Well      | Vegetated | Concrete Pad     | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 51                             | 8147           | 7/15/2008 | POS   | ND          | 58.8 F (14.9 C)   | 1079 591.0  | 2.500 319.2    | Well      | Gravel    | Gravel           | Steel     | Sealed     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 52                             | 8148           | 7/15/2008 | POS   | POS         | 58.5 F (14.7 C)   | 838 469.0   | 3.100 194.6    | Well      | Livestock | Soil             | Steel     | Open       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 53                             | 8149           | 7/15/2008 | ND    | ND          | 73.6 F (23.1 C)   | 602 373.0   | 0.500 309.4    | Well      | Livestock | Concrete Pad     | Steel     | Sealed     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 54                             | 8150           | 7/15/2008 | ND    | ND          | 72.9 F (22.7 C)   | 631 394.0   | 0.700 299.7    | Well      | Clean     | Well House       | Steel     | Sealed     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 55                             | 8163           | 7/29/2008 | POS   | ND          | 64.4 F (18.0 C)   | 361 225.0   | 0.400 176.3    | Well      | Clay Soil | Soil             | Steel     | Open       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                |           | 16    | 3           | ND - Not Detected |             |                |           |           |                  |           |            |                                     |                                     |                          |                          |                          |                          |

**Irrigation:**

| Irrigation Standards |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|----------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                      | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                    | 8014      | 5/23/2008   | ND         | 0.0747       | ND         | 74.9099    | 88.6302    | ND         | ND          | 0.0018     | 0.0073     | ND        | ND         | 206.4660     | 4.1462    | 0.0228     | 17.3263    |
| 2                    | 8015      | 5/23/2008   | ND         | 1.0740       | ND         | 120.8359   | 492.7731   | ND         | ND          | 0.0007     | 0.0304     | 1.1316    | ND         | 310.3030     | 18.0562   | 0.5417     | 37.9672    |
| 3                    | 8016      | 5/23/2008   | ND         | 0.3126       | ND         | 68.0789    | 143.8381   | ND         | ND          | 0.0009     | 0.0111     | 1.7088    | ND         | 241.8790     | 11.6004   | 0.1783     | 21.1232    |
| 4                    | 8017      | 5/23/2008   | ND         | 0.1602       | ND         | 72.2730    | 31.4733    | ND         | ND          | 0.0013     | 0.0223     | ND        | ND         | 407.0370     | 1.1361    | 0.0136     | 37.0038    |
| 5                    | 8070      | 6/30/2008   | ND         | 0.0945       | ND         | 239.6737   | 757.1533   | 0.0003     | ND          | ND         | 0.0106     | ND        | ND         | 263.5370     | 7.3007    | 0.0432     | 122.6313   |
| 6                    | 8071      | 6/30/2008   | ND         | 0.3472       | ND         | 253.8652   | 924.9727   | ND         | ND          | ND         | 0.0098     | ND        | 0.2366     | 363.3150     | 13.6731   | 0.0843     | 157.8134   |
| 7                    | 8074      | 6/30/2008   | ND         | 0.3296       | ND         | 36.3071    | 562.7499   | ND         | ND          | ND         | ND         | ND        | ND         | 144.5420     | 8.8779    | 0.0503     | 96.4876    |
| 8                    | 8075      | 6/30/2008   | ND         | 0.5009       | ND         | 131.9109   | 529.3371   | 0.0003     | ND          | ND         | 0.0074     | ND        | ND         | 574.5900     | 8.0259    | 0.0647     | 87.9448    |
| 9                    | 8076      | 6/30/2008   | ND         | 0.0495       | ND         | 60.2036    | 97.7361    | ND         | ND          | ND         | 0.0057     | ND        | ND         | 170.4620     | 2.0414    | 0.0302     | 27.4792    |
| 10                   | 8077      | 6/30/2008   | ND         | 0.0701       | ND         | 59.2717    | 77.2400    | ND         | ND          | ND         | 0.0146     | ND        | ND         | 215.5470     | 2.0309    | 0.0339     | 27.1129    |
| 11                   | 8078      | 6/30/2008   | ND         | 0.1134       | ND         | 87.2019    | 348.9345   | ND         | ND          | ND         | 0.0170     | ND        | ND         | 259.2910     | 4.1283    | 0.0645     | 65.2093    |
| 12                   | 8079      | 6/30/2008   | ND         | 0.0396       | ND         | 61.2449    | 32.0872    | ND         | ND          | ND         | 0.0074     | ND        | ND         | 275.9510     | 1.0627    | 0.0093     | 19.9405    |
| 13                   | 8109      | 7/10/2008   | ND         | 0.0872       | ND         | 244.0020   | 598.9434   | ND         | ND          | 0.0007     | 0.0181     | ND        | ND         | 335.1220     | 3.3301    | 0.0155     | 100.6744   |
| 14                   | 8110      | 7/10/2008   | ND         | 0.0397       | ND         | 110.8008   | 200.1498   | ND         | ND          | 0.0006     | 0.0091     | ND        | ND         | 290.1690     | 1.9911    | 0.0069     | 39.4593    |
| 15                   | 8111      | 7/10/2008   | ND         | 0.2935       | ND         | 315.6871   | 1373.4780  | 0.0004     | ND          | 0.0008     | 0.0259     | ND        | ND         | 209.2710     | 4.1310    | 0.0398     | 155.7707   |
| 16                   | 8112      | 7/10/2008   | ND         | 0.0454       | ND         | 64.1192    | 36.9400    | ND         | ND          | 0.0012     | 0.0044     | ND        | ND         | 368.3500     | 2.5376    | 0.0216     | 39.7656    |
| 17                   | 8113      | 7/10/2008   | ND         | 0.0457       | ND         | 95.6917    | 82.2084    | ND         | ND          | 0.0007     | 0.0247     | ND        | ND         | 344.7830     | 1.6045    | 0.0078     | 36.1312    |
| 18                   | 8114      | 7/10/2008   | ND         | 0.0817       | ND         | 94.5939    | 97.4656    | ND         | ND          | 0.0008     | 0.0114     | ND        | ND         | 326.3760     | 1.6270    | 0.0090     | 34.8201    |
| 19                   | 8115      | 7/10/2008   | ND         | 0.0502       | ND         | 78.5389    | 73.3668    | ND         | ND          | ND         | 0.0101     | ND        | ND         | 293.4010     | 1.3733    | 0.0089     | 30.6051    |
| 20                   | 8116      | 7/10/2008   | ND         | 0.0370       | ND         | 76.6920    | 26.6416    | ND         | ND          | 0.0012     | 0.0130     | ND        | ND         | 354.4460     | 2.1934    | 0.0112     | 34.4997    |
| 21                   | 8117      | 7/10/2008   | ND         | 0.0389       | ND         | 69.2161    | 35.4747    | ND         | ND          | 0.0014     | 0.0106     | ND        | ND         | 335.7060     | 1.8439    | 0.0130     | 30.5806    |
| 22                   | 8118      | 7/10/2008   | ND         | 0.0279       | ND         | 64.3346    | 52.0105    | ND         | ND          | 0.0009     | 0.0211     | ND        | ND         | 259.5640     | 2.8212    | 0.0077     | 25.2997    |
| 23                   | 8119      | 7/10/2008   | ND         | 0.1567       | ND         | 71.5476    | 56.0390    | ND         | ND          | 0.0006     | 0.0112     | ND        | ND         | 323.7660     | 4.7337    | 0.0713     | 30.1242    |
| 24                   | 8120      | 7/10/2008   | ND         | 0.2209       | ND         | 85.2794    | 93.9181    | ND         | ND          | 0.0006     | 0.0155     | ND        | ND         | 317.4850     | 5.1363    | 0.1007     | 36.1367    |
| 25                   | 8121      | 7/10/2008   | ND         | 0.1647       | ND         | 81.5853    | 74.1942    | ND         | ND          | 0.0005     | 0.0283     | ND        | ND         | 330.0120     | 5.4625    | 0.0997     | 33.3268    |
| 26                   | 8122      | 7/10/2008   | ND         | 0.0600       | ND         | 87.9808    | 31.2633    | ND         | ND          | 0.0009     | 0.0090     | ND        | ND         | 387.6420     | 2.1729    | 0.0159     | 28.7499    |
| 27                   | 8123      | 7/10/2008   | ND         | 0.0600       | ND         | 88.3891    | 33.1727    | ND         | ND          | 0.0007     | 0.0069     | ND        | ND         | 387.3800     | 2.1480    | 0.0160     | 30.5035    |
| 28                   | 8124      | 7/10/2008   | ND         | 0.0531       | ND         | 80.0658    | 33.4607    | ND         | ND          | ND         | 0.0137     | ND        | ND         | 356.6140     | 3.6998    | 0.0332     | 27.5389    |
| 29                   | 8125      | 7/10/2008   | ND         | 0.2381       | ND         | 103.6141   | 179.8741   | ND         | ND          | 0.0006     | 0.0082     | ND        | ND         | 310.4030     | 4.2530    | 0.0603     | 41.0972    |
| 30                   | 8126      | 7/10/2008   | ND         | 0.2151       | ND         | 101.4919   | 246.9686   | ND         | ND          | 0.0007     | 0.0294     | ND        | ND         | 295.3840     | 3.2795    | 0.0671     | 36.7026    |
| 31                   | 8127      | 7/10/2008   | ND         | 0.0590       | ND         | 82.8256    | 214.6809   | ND         | ND          | 0.0007     | 0.0208     | ND        | ND         | 374.0710     | 1.9028    | 0.0147     | 26.6731    |
| 32                   | 8128      | 7/10/2008   | ND         | 0.0597       | ND         | 85.3947    | 33.9936    | ND         | ND          | 0.0006     | 0.0354     | ND        | ND         | 359.8380     | 1.5497    | 0.0106     | 26.5019    |
| 33                   | 8129      | 7/10/2008   | ND         | 0.0641       | ND         | 83.9768    | 28.3935    | ND         | ND          | 0.0008     | 0.0062     | ND        | ND         | 376.8630     | 1.7016    | 0.0119     | 27.3185    |
| 34                   | 8130      | 7/10/2008   | ND         | 0.1354       | ND         | 103.7565   | 341.9340   | ND         | ND          | 0.0021     | 0.0053     | ND        | ND         | 196.7590     | 2.4785    | 0.0285     | 50.6284    |
| 35                   | 8131      | 7/17/2008   | ND         | 0.1305       | ND         | 58.2476    | 33.0501    | ND         | ND          | 0.0016     | 0.0091     | ND        | ND         | 463.7940     | 1.4496    | 0.0121     | 31.0704    |
| 36                   | 8132      | 7/17/2008   | ND         | 0.0765       | ND         | 98.1914    | 73.0610    | ND         | ND          | 0.0015     | 0.0160     | ND        | ND         | 376.3610     | 2.8651    | 0.0308     | 35.5468    |



| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 37                                | 8133      | 7/17/2008   | ND         | 0.0845       | ND         | 146.1260   | 153.4717   | ND         | ND          | 0.0014     | 0.0268     | ND        | ND         | 340.8250     | 3.7625    | 0.0450     | 45.6981    |
| 38                                | 8134      | 7/17/2008   | ND         | 0.0452       | ND         | 139.6412   | 305.4708   | 0.0004     | ND          | 0.0016     | 0.0214     | ND        | ND         | 273.9730     | 2.3979    | 0.0185     | 71.0669    |
| 39                                | 8135      | 7/17/2008   | ND         | 0.0435       | ND         | 88.8418    | 105.2906   | ND         | ND          | 0.0012     | 0.0173     | ND        | ND         | 295.4670     | 1.4289    | 0.0126     | 43.3877    |
| 40                                | 8136      | 7/17/2008   | ND         | 0.0376       | ND         | 39.0920    | 44.0639    | ND         | ND          | 0.0019     | 0.0102     | ND        | ND         | 236.4800     | 1.8010    | 0.0334     | 30.4461    |
| 41                                | 8137      | 7/17/2008   | ND         | 0.0478       | ND         | 55.0420    | 84.6904    | ND         | ND          | 0.0018     | 0.0285     | ND        | ND         | 220.7680     | 1.7953    | 0.0269     | 32.6383    |
| 42                                | 8138      | 7/17/2008   | ND         | 0.0637       | ND         | 71.4587    | 77.0369    | ND         | ND          | 0.0010     | 0.0202     | ND        | ND         | 357.4890     | 1.3992    | 0.0169     | 49.0491    |
| 43                                | 8139      | 7/17/2008   | ND         | 0.0283       | ND         | 54.2654    | 47.7439    | ND         | ND          | 0.0016     | 0.0198     | ND        | ND         | 286.1840     | 1.4643    | 0.0149     | 32.5796    |
| 44                                | 8140      | 7/17/2008   | ND         | 0.1470       | ND         | 175.1083   | 340.0051   | ND         | ND          | 0.0017     | 0.0112     | ND        | ND         | 224.1720     | 4.9457    | 0.0962     | 122.9968   |
| 45                                | 8141      | 7/17/2008   | ND         | 0.2255       | ND         | 86.9087    | 215.1324   | ND         | ND          | 0.0011     | 0.0143     | ND        | ND         | 251.0960     | 11.8316   | 0.2759     | 63.9246    |
| 46                                | 8142      | 7/17/2008   | ND         | 0.1250       | ND         | 82.9988    | 72.6500    | ND         | ND          | 0.0010     | 0.0158     | ND        | ND         | 307.3780     | 3.4823    | 0.0388     | 24.7536    |
| 47                                | 8143      | 7/17/2008   | ND         | 1.5070       | ND         | 461.8853   | 2788.9450  | 0.0005     | ND          | 0.0012     | 0.0355     | ND        | ND         | 256.5560     | 51.1760   | 1.3080     | 284.0049   |
| 48                                | 8144      | 7/17/2008   | ND         | 2.5750       | ND         | 448.1762   | 2947.4690  | 0.0005     | ND          | 0.0026     | 0.0346     | ND        | ND         | 301.1690     | 28.0238   | 1.3370     | 274.7185   |
| 49                                | 8145      | 7/17/2008   | ND         | ND           | ND         | 551.3167   | 4428.7190  | 0.0006     | ND          | 0.0019     | 0.0125     | ND        | ND         | 244.6360     | 104.1379  | ND         | 336.0291   |
| 50                                | 8146      | 7/17/2008   | ND         | 2.1840       | ND         | 354.7965   | 2463.8440  | 0.0004     | ND          | 0.0021     | 0.0172     | ND        | ND         | 223.6910     | 10.7862   | 1.2660     | 273.9292   |
| 51                                | 8147      | 7/17/2008   | ND         | 0.2918       | ND         | 58.5342    | 129.7856   | ND         | ND          | 0.0015     | 0.0142     | ND        | ND         | 234.5950     | 4.7687    | 0.1263     | 41.9461    |
| 52                                | 8148      | 7/17/2008   | ND         | 0.3010       | ND         | 41.7694    | 80.6503    | 0.0005     | ND          | ND         | 0.0082     | ND        | ND         | 214.6280     | 3.3324    | 0.0393     | 21.8756    |
| 53                                | 8149      | 7/17/2008   | ND         | 0.0395       | ND         | 74.1092    | 30.3489    | ND         | ND          | 0.0008     | 0.0029     | ND        | ND         | 348.4550     | 1.0768    | 0.0110     | 30.1307    |
| 54                                | 8150      | 7/17/2008   | ND         | 0.0794       | ND         | 78.1110    | 26.8118    | ND         | ND          | 0.0010     | 0.0282     | ND        | ND         | 369.6700     | 2.5918    | 0.0205     | 25.3385    |
| 55                                | 8163      | 8/6/2008    | ND         | 0.0298       | ND         | 43.1951    | 14.3938    | ND         | ND          | 0.0007     | 0.0073     | ND        | ND         | 211.0460     | 1.5475    | 0.0080     | 16.5907    |
| Test Count that Exceeded Standard |           |             | 0          | 5            | 0          | 0          | 37         | 0          | 0           | 0          | 0          | 0         | 0          | 55           | 0         | 0          | 0          |

ND - Not Detected

| Irrigation Standards Continues |           |             | .2         | .01        | 70:230     | .2         | 5          | 10000       | 3:9          | .02        | 151;451;13  | .1        | 2          |
|--------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                              | 8014      | 5/23/2008   | 0.0013     | 0.0015     | 24.2134    | ND         | ND         | ND          | 0.7000       | ND         | 375.0000    | 0.0104    | 0.7777     |
| 2                              | 8015      | 5/23/2008   | 0.0028     | 0.0154     | 155.4620   | 0.0015     | ND         | ND          | 3.2000       | ND         | 1139.0000   | ND        | 0.0359     |
| 3                              | 8016      | 5/23/2008   | 0.0069     | 0.0053     | 57.2682    | 0.0008     | ND         | ND          | 1.6000       | ND         | 510.0000    | ND        | 0.0755     |
| 4                              | 8017      | 5/23/2008   | 0.0004     | 0.0010     | 37.0955    | 0.0009     | ND         | ND          | 0.9000       | ND         | 455.0000    | 0.0033    | 0.0298     |
| 5                              | 8070      | 6/30/2008   | 0.3302     | 0.0007     | 110.6235   | 0.0015     | ND         | ND          | 1.4000       | ND         | 1744.0000   | ND        | 0.0384     |
| 6                              | 8071      | 6/30/2008   | 0.3414     | 0.0014     | 273.1715   | 0.0014     | ND         | ND          | 3.3000       | ND         | 2493.0000   | ND        | 0.0070     |
| 7                              | 8074      | 6/30/2008   | 0.2162     | 0.0012     | 331.3816   | ND         | ND         | ND          | 6.5000       | ND         | 1394.0000   | ND        | 0.0040     |
| 8                              | 8075      | 6/30/2008   | 0.4827     | 0.0067     | 362.3642   | 0.0016     | ND         | ND          | 6.0000       | ND         | 1899.0000   | 0.0021    | 0.0044     |
| 9                              | 8076      | 6/30/2008   | 0.0050     | ND         | 26.8872    | ND         | ND         | ND          | 0.7000       | ND         | 354.0000    | ND        | 0.2392     |
| 10                             | 8077      | 6/30/2008   | 0.0016     | ND         | 30.6553    | ND         | ND         | ND          | 0.8000       | ND         | 369.0000    | ND        | 0.3758     |
| 11                             | 8078      | 6/30/2008   | 0.0063     | 0.0005     | 138.3509   | 0.0017     | ND         | ND          | 2.7000       | ND         | 936.0000    | 0.0032    | 0.1983     |
| 12                             | 8079      | 6/30/2008   | 0.0004     | ND         | 21.7327    | ND         | ND         | ND          | 0.6000       | ND         | 314.0000    | ND        | 0.0881     |
| 13                             | 8109      | 7/10/2008   | 0.0039     | ND         | 116.7761   | 0.0013     | ND         | ND          | 1.6000       | 0.0066     | 1435.0000   | ND        | 0.0288     |
| 14                             | 8110      | 7/10/2008   | 0.0040     | ND         | 37.6880    | ND         | ND         | ND          | 0.8000       | ND         | 634.0000    | ND        | 0.1507     |
| 15                             | 8111      | 7/10/2008   | 0.0050     | ND         | 410.7142   | 0.0020     | ND         | ND          | 4.7000       | 0.0127     | 2982.0000   | 0.0020    | 0.0182     |
| 16                             | 8112      | 7/10/2008   | ND         | ND         | 25.3519    | ND         | ND         | ND          | 0.6000       | ND         | 410.0000    | 0.0022    | 0.0176     |
| 17                             | 8113      | 7/10/2008   | 0.0006     | ND         | 25.7413    | ND         | 0.0018     | ND          | 0.6000       | ND         | 468.0000    | 0.0021    | 0.2645     |
| 18                             | 8114      | 7/10/2008   | 0.0006     | ND         | 47.3458    | ND         | ND         | ND          | 1.1000       | ND         | 505.0000    | 0.0026    | 0.1317     |
| 19                             | 8115      | 7/10/2008   | 0.0005     | ND         | 27.5654    | ND         | 0.0014     | ND          | 0.7000       | ND         | 412.0000    | 0.0029    | 0.5293     |
| 20                             | 8116      | 7/10/2008   | 0.0003     | ND         | 19.8820    | ND         | ND         | ND          | 0.5000       | ND         | 411.0000    | 0.0025    | 0.0709     |
| 21                             | 8117      | 7/10/2008   | ND         | ND         | 22.6702    | ND         | ND         | ND          | 0.6000       | ND         | 383.0000    | 0.0033    | 0.0047     |
| 22                             | 8118      | 7/10/2008   | 0.0006     | ND         | 17.9408    | ND         | ND         | ND          | 0.5000       | ND         | 347.0000    | ND        | 1.5740     |
| 23                             | 8119      | 7/10/2008   | 0.0007     | ND         | 46.1870    | ND         | ND         | ND          | 1.2000       | ND         | 455.0000    | ND        | 0.0417     |
| 24                             | 8120      | 7/10/2008   | 0.0004     | ND         | 63.7471    | ND         | ND         | ND          | 1.5000       | ND         | 571.0000    | ND        | 0.0078     |
| 25                             | 8121      | 7/10/2008   | 0.0021     | ND         | 48.1340    | ND         | ND         | ND          | 1.1000       | ND         | 504.0000    | ND        | 0.0225     |
| 26                             | 8122      | 7/10/2008   | 0.0005     | ND         | 22.5284    | 0.0008     | ND         | ND          | 0.5000       | ND         | 427.0000    | 0.0025    | 0.0214     |
| 27                             | 8123      | 7/10/2008   | 0.0008     | ND         | 21.7879    | ND         | ND         | ND          | 0.5000       | ND         | 429.0000    | 0.0025    | 0.0435     |
| 28                             | 8124      | 7/10/2008   | 0.0361     | ND         | 22.6891    | ND         | ND         | ND          | 0.6000       | ND         | 400.0000    | ND        | 0.0099     |
| 29                             | 8125      | 7/10/2008   | 0.0022     | ND         | 81.2903    | ND         | ND         | ND          | 1.7000       | ND         | 657.0000    | 0.0019    | 0.2655     |
| 30                             | 8126      | 7/10/2008   | 0.0018     | ND         | 75.1522    | 0.0007     | ND         | ND          | 1.6000       | ND         | 760.0000    | ND        | 0.0187     |
| 31                             | 8127      | 7/10/2008   | 0.0011     | ND         | 25.6838    | ND         | ND         | ND          | 0.6000       | ND         | 699.0000    | 0.0027    | 0.2817     |
| 32                             | 8128      | 7/10/2008   | 0.0010     | ND         | 21.2396    | 0.0007     | ND         | ND          | 0.5000       | ND         | 407.0000    | ND        | 0.0281     |
| 33                             | 8129      | 7/10/2008   | 0.0003     | ND         | 21.3744    | ND         | ND         | ND          | 0.5000       | ND         | 406.0000    | 0.0028    | 0.0926     |
| 34                             | 8130      | 7/10/2008   | 0.0003     | 0.0007     | 65.1665    | ND         | ND         | ND          | 1.3000       | ND         | 794.0000    | 0.0082    | 0.0178     |
| 35                             | 8131      | 7/17/2008   | 0.0002     | ND         | 77.6097    | ND         | ND         | ND          | 2.0000       | ND         | 500.0000    | 0.0046    | 0.0309     |
| 36                             | 8132      | 7/17/2008   | 0.0004     | 0.0008     | 54.1069    | ND         | ND         | ND          | 1.2000       | ND         | 554.0000    | ND        | 0.0061     |



| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 37                                 | 8133      | 7/17/2008   | 0.0003     | 0.0009     | 53.6548    | 0.0009     | ND         | ND          | 1.0000       | ND         | 823.0000    | ND        | 0.0102     |
| 38                                 | 8134      | 7/17/2008   | 0.0008     | ND         | 56.4733    | 0.0009     | 0.0017     | ND          | 1.0000       | ND         | 908.0000    | 0.0027    | 0.1032     |
| 39                                 | 8135      | 7/17/2008   | ND         | ND         | 32.8762    | ND         | ND         | ND          | 0.7000       | ND         | 495.0000    | 0.0021    | 0.0070     |
| 40                                 | 8136      | 7/17/2008   | 0.0004     | 0.0005     | 20.9937    | ND         | ND         | ND          | 0.6000       | ND         | 300.0000    | 0.0105    | 0.0026     |
| 41                                 | 8137      | 7/17/2008   | 0.0007     | ND         | 28.5962    | ND         | ND         | ND          | 0.8000       | ND         | 361.0000    | 0.0022    | 0.0058     |
| 42                                 | 8138      | 7/17/2008   | 0.0005     | ND         | 32.3557    | ND         | ND         | ND          | 0.7000       | ND         | 469.0000    | 0.0028    | 0.0083     |
| 43                                 | 8139      | 7/17/2008   | 0.0006     | ND         | 19.3666    | ND         | ND         | ND          | 0.5000       | ND         | 340.0000    | 0.0036    | 0.0071     |
| 44                                 | 8140      | 7/17/2008   | 0.0003     | 0.0008     | 74.4199    | 0.0009     | ND         | ND          | 1.1000       | 0.0055     | 1443.0000   | 0.0078    | 0.0161     |
| 45                                 | 8141      | 7/17/2008   | 0.0003     | 0.0013     | 84.5990    | ND         | ND         | ND          | 1.7000       | ND         | 858.0000    | 0.0102    | 0.0046     |
| 46                                 | 8142      | 7/17/2008   | ND         | ND         | 41.9770    | ND         | ND         | ND          | 1.0000       | ND         | 445.0000    | 0.0033    | 0.0054     |
| 47                                 | 8143      | 7/17/2008   | 0.0035     | 0.0007     | 387.5474   | 0.0076     | ND         | ND          | 3.5000       | 0.0398     | 5864.0000   | 0.0041    | 0.0213     |
| 48                                 | 8144      | 7/17/2008   | ND         | ND         | 529.5783   | 0.0031     | ND         | ND          | 4.9000       | 0.0289     | 6317.0000   | 0.0060    | 0.0069     |
| 49                                 | 8145      | 7/17/2008   | 0.0004     | 0.0010     | 1062.5050  | 0.0035     | ND         | ND          | 8.8000       | 0.0343     | 8850.0000   | 0.0067    | 0.0059     |
| 50                                 | 8146      | 7/17/2008   | 0.0002     | 0.0005     | 503.7664   | 0.0023     | ND         | ND          | 4.9000       | 0.0168     | 5304.0000   | 0.0046    | 0.0050     |
| 51                                 | 8147      | 7/17/2008   | ND         | 0.0012     | 103.1999   | ND         | ND         | ND          | 2.5000       | ND         | 591.0000    | 0.0108    | 0.0030     |
| 52                                 | 8148      | 7/17/2008   | 0.0593     | 0.0019     | 97.7780    | ND         | ND         | ND          | 3.1000       | ND         | 469.0000    | 0.0026    | 1.3890     |
| 53                                 | 8149      | 7/17/2008   | ND         | ND         | 20.0718    | ND         | ND         | ND          | 0.5000       | ND         | 373.0000    | 0.0028    | 0.0263     |
| 54                                 | 8150      | 7/17/2008   | 0.0008     | ND         | 27.8448    | ND         | 0.0029     | ND          | 0.7000       | ND         | 394.0000    | 0.0045    | 1.7730     |
| 55                                 | 8163      | 8/6/2008    | 0.0009     | 0.0010     | 13.5928    | ND         | ND         | ND          | 0.4000       | ND         | 225.0000    | 0.0052    | 0.0038     |
| Test Count that Exceeded Standard: |           |             | 4          | 1          | 19         | 0          | 0          | 0           | 10           | 3          | 55          | 0         | 0          |

ND - Not Detected

Livestock:

| Livestock Standards |             |           | 5          | 0.2        | 5         | .1         | 0.05       | 1          | 1          | .5         | 2         | 10         | 440         | .1         | 5.5-8.3 | .05        | 167;333     | 1000;3000;  | 25         |
|---------------------|-------------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|
| Sample No           | Tested Date |           | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                   | 8014        | 5/23/2008 | ND         | 0.0052     | 0.0747    | ND         | ND         | ND         | 0.0018     | 0.0073     | ND        | ND         | 5.9173      | ND         | 7.8000  | ND         | 34.1164     | 375.0000    | 0.7777     |
| 2                   | 8015        | 5/23/2008 | ND         | ND         | 1.0740    | ND         | ND         | ND         | 0.0007     | 0.0304     | 1.1316    | ND         | 7.5418      | ND         | 7.6600  | ND         | 146.3401    | 1139.0000   | 0.0359     |
| 3                   | 8016        | 5/23/2008 | ND         | ND         | 0.3126    | ND         | ND         | ND         | 0.0009     | 0.0111     | 1.7088    | ND         | 22.4056     | ND         | 7.8000  | ND         | 57.8933     | 510.0000    | 0.0755     |
| 4                   | 8017        | 5/23/2008 | ND         | 0.0024     | 0.1602    | ND         | ND         | ND         | 0.0013     | 0.0223     | ND        | ND         | 27.0674     | ND         | 8.0100  | ND         | 38.5621     | 455.0000    | 0.0298     |
| 5                   | 8070        | 6/30/2008 | ND         | 0.0022     | 0.0945    | ND         | ND         | 0.0003     | ND         | 0.0106     | ND        | ND         | ND          | ND         | 7.3600  | ND         | 363.9435    | 1744.0000   | 0.0384     |
| 6                   | 8071        | 6/30/2008 | ND         | 0.0045     | 0.3472    | ND         | ND         | ND         | ND         | 0.0098     | ND        | ND         | ND          | ND         | 7.4800  | ND         | 672.6735    | 2493.0000   | 0.0070     |
| 7                   | 8074        | 6/30/2008 | ND         | ND         | 0.3296    | ND         | ND         | ND         | ND         | ND         | ND        | ND         | ND          | ND         | 7.6900  | ND         | 286.1388    | 1394.0000   | 0.0040     |
| 8                   | 8075        | 6/30/2008 | ND         | 0.0054     | 0.5009    | ND         | ND         | 0.0003     | ND         | 0.0074     | ND        | ND         | ND          | ND         | 7.7100  | ND         | 480.1263    | 1899.0000   | 0.0044     |
| 9                   | 8076        | 6/30/2008 | ND         | 0.0029     | 0.0495    | ND         | ND         | ND         | ND         | 0.0057     | ND        | ND         | 15.5986     | ND         | 7.1200  | ND         | 34.8585     | 354.0000    | 0.2392     |
| 10                  | 8077        | 6/30/2008 | ND         | 0.0062     | 0.0701    | ND         | ND         | ND         | ND         | 0.0146     | ND        | ND         | 26.5176     | ND         | 7.4400  | ND         | 33.2096     | 369.0000    | 0.3758     |
| 11                  | 8078        | 6/30/2008 | ND         | 0.0026     | 0.1134    | ND         | ND         | ND         | ND         | 0.0170     | ND        | ND         | 33.4593     | ND         | 7.5400  | ND         | 117.2584    | 936.0000    | 0.1983     |
| 12                  | 8079        | 6/30/2008 | ND         | ND         | 0.0396    | ND         | ND         | ND         | ND         | 0.0074     | ND        | ND         | ND          | ND         | 7.6400  | ND         | 30.6827     | 314.0000    | 0.0881     |
| 13                  | 8109        | 7/10/2008 | ND         | ND         | 0.0872    | ND         | ND         | ND         | 0.0007     | 0.0181     | ND        | ND         | 44.4662     | ND         | 7.7400  | 0.0066     | 152.0856    | 1435.0000   | 0.0288     |
| 14                  | 8110        | 7/10/2008 | ND         | ND         | 0.0397    | ND         | ND         | ND         | 0.0006     | 0.0091     | ND        | ND         | 16.5101     | ND         | 7.6500  | ND         | 75.4265     | 634.0000    | 0.1507     |
| 15                  | 8111        | 7/10/2008 | ND         | 0.0019     | 0.2935    | ND         | ND         | 0.0004     | 0.0008     | 0.0259     | ND        | ND         | 55.9137     | ND         | 7.6300  | 0.0127     | 555.8121    | 2982.0000   | 0.0182     |
| 16                  | 8112        | 7/10/2008 | ND         | 0.0022     | 0.0454    | ND         | ND         | ND         | 0.0012     | 0.0044     | ND        | ND         | 17.8216     | ND         | 7.8100  | ND         | 24.9434     | 410.0000    | 0.0176     |
| 17                  | 8113        | 7/10/2008 | ND         | ND         | 0.0457    | ND         | ND         | ND         | 0.0007     | 0.0247     | ND        | ND         | 16.6935     | 0.0018     | 7.6300  | ND         | 31.9684     | 468.0000    | 0.2645     |
| 18                  | 8114        | 7/10/2008 | ND         | ND         | 0.0817    | ND         | ND         | ND         | 0.0008     | 0.0114     | ND        | ND         | 17.6726     | ND         | 7.7000  | ND         | 42.4061     | 505.0000    | 0.1317     |
| 19                  | 8115        | 7/10/2008 | ND         | 0.0020     | 0.0502    | ND         | ND         | ND         | ND         | 0.0101     | ND        | ND         | 14.6331     | 0.0014     | 7.8600  | ND         | 33.4277     | 412.0000    | 0.5293     |
| 20                  | 8116        | 7/10/2008 | ND         | ND         | 0.0370    | ND         | ND         | ND         | 0.0012     | 0.0130     | ND        | ND         | 17.9400     | ND         | 7.7200  | ND         | 44.7401     | 411.0000    | 0.0709     |
| 21                  | 8117        | 7/10/2008 | ND         | 0.0022     | 0.0389    | ND         | ND         | ND         | 0.0014     | 0.0106     | ND        | ND         | 18.3584     | ND         | 7.7100  | ND         | 27.2774     | 383.0000    | 0.0047     |
| 22                  | 8118        | 7/10/2008 | ND         | ND         | 0.0279    | ND         | ND         | ND         | 0.0009     | 0.0211     | ND        | ND         | 14.7773     | ND         | 7.8800  | ND         | 26.2372     | 347.0000    | 1.5740     |
| 23                  | 8119        | 7/10/2008 | ND         | ND         | 0.1567    | ND         | ND         | ND         | 0.0006     | 0.0112     | ND        | ND         | 18.7437     | ND         | 7.9000  | ND         | 56.5579     | 455.0000    | 0.0417     |
| 24                  | 8120        | 7/10/2008 | ND         | ND         | 0.2209    | ND         | ND         | ND         | 0.0006     | 0.0155     | ND        | ND         | 19.1798     | ND         | 7.7800  | ND         | 102.7799    | 571.0000    | 0.0078     |
| 25                  | 8121        | 7/10/2008 | ND         | ND         | 0.1647    | ND         | ND         | ND         | 0.0005     | 0.0283     | ND        | ND         | 19.9387     | ND         | 7.8400  | ND         | 70.8519     | 504.0000    | 0.0225     |
| 26                  | 8122        | 7/10/2008 | ND         | 0.0023     | 0.0600    | ND         | ND         | ND         | 0.0009     | 0.0090     | ND        | ND         | 13.5068     | ND         | 7.8600  | ND         | 40.6862     | 427.0000    | 0.0214     |
| 27                  | 8123        | 7/10/2008 | ND         | 0.0025     | 0.0600    | ND         | ND         | ND         | 0.0007     | 0.0069     | ND        | ND         | 14.2751     | ND         | 7.7900  | ND         | 38.2755     | 429.0000    | 0.0435     |
| 28                  | 8124        | 7/10/2008 | ND         | ND         | 0.0531    | ND         | ND         | ND         | ND         | 0.0137     | ND        | ND         | 12.6976     | ND         | 7.8900  | ND         | 35.3277     | 400.0000    | 0.0099     |
| 29                  | 8125        | 7/10/2008 | ND         | 0.0023     | 0.2381    | ND         | ND         | ND         | 0.0006     | 0.0082     | ND        | ND         | 17.2408     | ND         | 7.7600  | ND         | 65.9408     | 657.0000    | 0.2655     |
| 30                  | 8126        | 7/10/2008 | ND         | ND         | 0.2151    | ND         | ND         | ND         | 0.0007     | 0.0294     | ND        | ND         | 21.2143     | ND         | 7.7900  | ND         | 119.2140    | 760.0000    | 0.0187     |
| 31                  | 8127        | 7/10/2008 | ND         | 0.0019     | 0.0590    | ND         | ND         | ND         | 0.0007     | 0.0208     | ND        | ND         | ND          | ND         | 7.8500  | ND         | 142.0072    | 699.0000    | 0.2817     |
| 32                  | 8128        | 7/10/2008 | ND         | 0.0021     | 0.0597    | ND         | ND         | ND         | 0.0006     | 0.0354     | ND        | ND         | 15.2247     | ND         | 7.8900  | ND         | 36.6613     | 407.0000    | 0.0281     |
| 33                  | 8129        | 7/10/2008 | ND         | 0.0025     | 0.0641    | ND         | ND         | ND         | 0.0008     | 0.0062     | ND        | ND         | 12.1549     | ND         | 7.7700  | ND         | 35.6881     | 406.0000    | 0.0926     |
| 34                  | 8130        | 7/10/2008 | ND         | 0.0037     | 0.1354    | ND         | ND         | ND         | 0.0021     | 0.0053     | ND        | ND         | 29.2012     | ND         | 7.8200  | ND         | 90.5888     | 794.0000    | 0.0178     |
| 35                  | 8131        | 7/17/2008 | ND         | 0.0029     | 0.1305    | ND         | ND         | ND         | 0.0016     | 0.0091     | ND        | ND         | 18.4599     | ND         | 7.9100  | ND         | 41.3971     | 500.0000    | 0.0309     |
| 36                  | 8132        | 7/17/2008 | ND         | 0.0026     | 0.0765    | ND         | ND         | ND         | 0.0015     | 0.0160     | ND        | ND         | 28.0786     | ND         | 7.7400  | ND         | 68.1332     | 554.0000    | 0.0061     |

| Livestock Standards               |           |             | 5          | 0.2        | 5         | .1         | 0.05       | 1          | 1          | .5         | 2         | 10         | 440         | .1         | 5.5-8.3 | .05        | 167;333     | 1000;3000;  | 25         |
|-----------------------------------|-----------|-------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 37                                | 8133      | 7/17/2008   | ND         | 0.0028     | 0.0845    | ND         | ND         | ND         | 0.0014     | 0.0268     | ND        | ND         | 28.4037     | ND         | 7.7200  | ND         | 215.4163    | 823.0000    | 0.0102     |
| 38                                | 8134      | 7/17/2008   | ND         | 0.0024     | 0.0452    | ND         | ND         | 0.0004     | 0.0016     | 0.0214     | ND        | ND         | 29.2197     | 0.0017     | 7.5800  | ND         | 158.0751    | 908.0000    | 0.1032     |
| 39                                | 8135      | 7/17/2008   | ND         | 0.0020     | 0.0435    | ND         | ND         | ND         | 0.0012     | 0.0173     | ND        | ND         | 36.3765     | ND         | 7.6600  | ND         | 32.3469     | 495.0000    | 0.0070     |
| 40                                | 8136      | 7/17/2008   | ND         | 0.0074     | 0.0376    | ND         | ND         | ND         | 0.0019     | 0.0102     | ND        | ND         | 11.6737     | ND         | 7.9600  | ND         | 20.1841     | 300.0000    | 0.0026     |
| 41                                | 8137      | 7/17/2008   | ND         | 0.0020     | 0.0478    | ND         | ND         | ND         | 0.0018     | 0.0285     | ND        | ND         | 12.5503     | ND         | 8.0300  | ND         | 27.1548     | 361.0000    | 0.0058     |
| 42                                | 8138      | 7/17/2008   | ND         | 0.0024     | 0.0637    | ND         | ND         | ND         | 0.0010     | 0.0202     | ND        | ND         | 15.0983     | ND         | 7.9000  | ND         | 37.2364     | 469.0000    | 0.0083     |
| 43                                | 8139      | 7/17/2008   | ND         | 0.0034     | 0.0283    | ND         | ND         | ND         | 0.0016     | 0.0198     | ND        | ND         | 12.6182     | ND         | 7.9500  | ND         | 20.3314     | 340.0000    | 0.0071     |
| 44                                | 8140      | 7/17/2008   | ND         | 0.0065     | 0.1470    | ND         | ND         | ND         | 0.0017     | 0.0112     | ND        | ND         | 14.8569     | ND         | 7.5900  | 0.0055     | 583.5358    | 1443.0000   | 0.0161     |
| 45                                | 8141      | 7/17/2008   | ND         | 0.0081     | 0.2255    | ND         | ND         | ND         | 0.0011     | 0.0143     | ND        | ND         | ND          | ND         | 7.8900  | ND         | 243.3442    | 858.0000    | 0.0046     |
| 46                                | 8142      | 7/17/2008   | ND         | 0.0021     | 0.1250    | ND         | ND         | ND         | 0.0010     | 0.0158     | ND        | ND         | 15.3728     | ND         | 8.0000  | ND         | 43.2376     | 445.0000    | 0.0054     |
| 47                                | 8143      | 7/17/2008   | ND         | 0.0035     | 1.5070    | ND         | ND         | 0.0005     | 0.0012     | 0.0355     | ND        | ND         | 11.5627     | ND         | 7.3500  | 0.0398     | 1734.1230   | 5864.0000   | 0.0213     |
| 48                                | 8144      | 7/17/2008   | ND         | 0.0060     | 2.5750    | ND         | ND         | 0.0005     | 0.0026     | 0.0346     | ND        | ND         | 15.9000     | ND         | 7.5600  | 0.0289     | 1906.1810   | 6317.0000   | 0.0069     |
| 49                                | 8145      | 7/17/2008   | ND         | 0.0058     | ND        | ND         | ND         | 0.0006     | 0.0019     | 0.0125     | ND        | ND         | 15.3345     | ND         | 7.5400  | 0.0343     | 2215.5680   | 8850.0000   | 0.0059     |
| 50                                | 8146      | 7/17/2008   | ND         | 0.0038     | 2.1840    | ND         | ND         | 0.0004     | 0.0021     | 0.0172     | ND        | ND         | 100.2344    | ND         | 7.5500  | 0.0168     | 1473.7110   | 5304.0000   | 0.0050     |
| 51                                | 8147      | 7/17/2008   | ND         | 0.0064     | 0.2918    | ND         | ND         | ND         | 0.0015     | 0.0142     | ND        | ND         | 23.4224     | ND         | 7.9800  | ND         | 101.2172    | 591.0000    | 0.0030     |
| 52                                | 8148      | 7/17/2008   | ND         | 0.0022     | 0.3010    | ND         | ND         | 0.0005     | ND         | 0.0082     | ND        | ND         | 16.3773     | ND         | 7.6600  | ND         | 95.0937     | 469.0000    | 1.3890     |
| 53                                | 8149      | 7/17/2008   | ND         | 0.0020     | 0.0395    | ND         | ND         | ND         | 0.0008     | 0.0029     | ND        | ND         | ND          | ND         | 8.0500  | ND         | 31.5562     | 373.0000    | 0.0263     |
| 54                                | 8150      | 7/17/2008   | ND         | 0.0037     | 0.0794    | ND         | ND         | ND         | 0.0010     | 0.0282     | ND        | ND         | ND          | 0.0029     | 7.9200  | ND         | 32.4339     | 394.0000    | 1.7730     |
| 55                                | 8163      | 8/6/2008    | ND         | 0.0045     | 0.0298    | ND         | ND         | ND         | 0.0007     | 0.0073     | ND        | ND         | ND          | ND         | 7.9900  | ND         | 17.2173     | 225.0000    | 0.0038     |
| Test Count that Exceeded Standard |           |             | 0          | 0          | 0         | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0           | 0          | 0       | 0          | 12          | 12          | 0          |

ND - Not Detected



**Culinary:**

| Drinking Water Primary Standards: |           |             | 0.01<br>As<br>mg/L | 2<br>Ba<br>mg/L | 0.004<br>Be<br>mg/L | 0.005<br>Cd<br>mg/L | 25<br>ClO4<br>ug/L | 0.1<br>Cr<br>mg/L | 1.3<br>Cu<br>mg/L | 4<br>F<br>mg/L | 2<br>Hg<br>ug/L | 10000<br>Na<br>mg/L | 1000<br>Ni<br>mg/L | 44.3<br>NO3<br>mg/L | .015<br>Pb<br>mg/L | .05<br>Se<br>mg/L | 500<br>SO4<br>mg/L | 2000<br>TDS<br>mg/L |
|-----------------------------------|-----------|-------------|--------------------|-----------------|---------------------|---------------------|--------------------|-------------------|-------------------|----------------|-----------------|---------------------|--------------------|---------------------|--------------------|-------------------|--------------------|---------------------|
|                                   | Sample No | Tested Date |                    |                 |                     |                     |                    |                   |                   |                |                 |                     |                    |                     |                    |                   |                    |                     |
| 1                                 | 8014      | 5/23/2008   | 0.0052             | 0.0082          | ND                  | ND                  | ND                 | 0.0018            | 0.0073            | ND             | ND              | 24.2134             | ND                 | 5.9173              | ND                 | ND                | 34.1164            | 375.0000            |
| 2                                 | 8015      | 5/23/2008   | ND                 | 0.0773          | ND                  | ND                  | ND                 | 0.0007            | 0.0304            | 1.1316         | ND              | 155.4620            | 0.0015             | 7.5418              | ND                 | ND                | 146.3401           | 1139.0000           |
| 3                                 | 8016      | 5/23/2008   | ND                 | 0.0508          | ND                  | ND                  | ND                 | 0.0009            | 0.0111            | 1.7088         | ND              | 57.2682             | 0.0008             | 22.4056             | ND                 | ND                | 57.8933            | 510.0000            |
| 4                                 | 8017      | 5/23/2008   | 0.0024             | 0.1301          | ND                  | ND                  | ND                 | 0.0013            | 0.0223            | ND             | ND              | 37.0955             | 0.0009             | 27.0674             | ND                 | ND                | 38.5621            | 455.0000            |
| 5                                 | 8070      | 6/30/2008   | 0.0022             | 0.0776          | ND                  | ND                  | ND                 | ND                | 0.0106            | ND             | ND              | 110.6235            | 0.0015             | ND                  | ND                 | ND                | 363.9435           | 1744.0000           |
| 6                                 | 8071      | 6/30/2008   | 0.0045             | 0.0370          | ND                  | ND                  | ND                 | ND                | 0.0098            | ND             | ND              | 273.1715            | 0.0014             | ND                  | ND                 | ND                | 672.6735           | 2493.0000           |
| 7                                 | 8074      | 6/30/2008   | ND                 | 0.0128          | ND                  | ND                  | ND                 | ND                | ND                | ND             | ND              | 331.3816            | ND                 | ND                  | ND                 | ND                | 286.1388           | 1394.0000           |
| 8                                 | 8075      | 6/30/2008   | 0.0054             | 0.0317          | ND                  | ND                  | ND                 | ND                | 0.0074            | ND             | ND              | 362.3642            | 0.0016             | ND                  | ND                 | ND                | 480.1263           | 1899.0000           |
| 9                                 | 8076      | 6/30/2008   | 0.0029             | 0.1108          | ND                  | ND                  | ND                 | ND                | 0.0057            | ND             | ND              | 26.8872             | ND                 | 15.5986             | ND                 | ND                | 34.8585            | 354.0000            |
| 10                                | 8077      | 6/30/2008   | 0.0062             | 0.1317          | ND                  | ND                  | ND                 | ND                | 0.0146            | ND             | ND              | 30.6553             | ND                 | 26.5176             | ND                 | ND                | 33.2096            | 369.0000            |
| 11                                | 8078      | 6/30/2008   | 0.0026             | 0.0430          | ND                  | ND                  | ND                 | ND                | 0.0170            | ND             | ND              | 138.3509            | 0.0017             | 33.4593             | ND                 | ND                | 117.2584           | 936.0000            |
| 12                                | 8079      | 6/30/2008   | ND                 | 0.0585          | ND                  | ND                  | ND                 | ND                | 0.0074            | ND             | ND              | 21.7327             | ND                 | ND                  | ND                 | ND                | 30.6827            | 314.0000            |
| 13                                | 8109      | 7/10/2008   | ND                 | 0.1400          | ND                  | ND                  | 7.1703             | 0.0007            | 0.0181            | ND             | ND              | 116.7761            | 0.0013             | 44.4662             | ND                 | 0.0066            | 152.0856           | 1435.0000           |
| 14                                | 8110      | 7/10/2008   | ND                 | 0.1707          | ND                  | ND                  | ND                 | 0.0006            | 0.0091            | ND             | ND              | 37.6880             | ND                 | 16.5101             | ND                 | ND                | 75.4265            | 634.0000            |
| 15                                | 8111      | 7/10/2008   | 0.0019             | 0.0430          | ND                  | ND                  | 7.1138             | 0.0008            | 0.0259            | ND             | ND              | 410.7142            | 0.0020             | 55.9137             | ND                 | 0.0127            | 555.8121           | 2982.0000           |
| 16                                | 8112      | 7/10/2008   | 0.0022             | 0.3036          | ND                  | ND                  | ND                 | 0.0012            | 0.0044            | ND             | ND              | 25.3519             | ND                 | 17.8216             | ND                 | ND                | 24.9434            | 410.0000            |
| 17                                | 8113      | 7/10/2008   | ND                 | 0.1522          | ND                  | ND                  | ND                 | 0.0007            | 0.0247            | ND             | ND              | 25.7413             | ND                 | 16.6935             | 0.0018             | ND                | 31.9684            | 468.0000            |
| 18                                | 8114      | 7/10/2008   | ND                 | 0.2305          | ND                  | ND                  | ND                 | 0.0008            | 0.0114            | ND             | ND              | 47.3458             | ND                 | 17.6726             | ND                 | ND                | 42.4061            | 505.0000            |
| 19                                | 8115      | 7/10/2008   | 0.0020             | 0.1821          | ND                  | ND                  | ND                 | ND                | 0.0101            | ND             | ND              | 27.5654             | ND                 | 14.6331             | 0.0014             | ND                | 33.4277            | 412.0000            |
| 20                                | 8116      | 7/10/2008   | ND                 | 0.1841          | ND                  | ND                  | ND                 | 0.0012            | 0.0130            | ND             | ND              | 19.8820             | ND                 | 17.9400             | ND                 | ND                | 44.7401            | 411.0000            |
| 21                                | 8117      | 7/10/2008   | 0.0022             | 0.1659          | ND                  | ND                  | ND                 | 0.0014            | 0.0106            | ND             | ND              | 22.6702             | ND                 | 18.3584             | ND                 | ND                | 27.2774            | 383.0000            |
| 22                                | 8118      | 7/10/2008   | ND                 | 0.0818          | ND                  | ND                  | ND                 | 0.0009            | 0.0211            | ND             | ND              | 17.9408             | ND                 | 14.7773             | ND                 | ND                | 26.2372            | 347.0000            |
| 23                                | 8119      | 7/10/2008   | ND                 | 0.0647          | ND                  | ND                  | ND                 | 0.0006            | 0.0112            | ND             | ND              | 46.1870             | ND                 | 18.7437             | ND                 | ND                | 56.5579            | 455.0000            |
| 24                                | 8120      | 7/10/2008   | ND                 | 0.0474          | ND                  | ND                  | ND                 | 0.0006            | 0.0155            | ND             | ND              | 63.7471             | ND                 | 19.1798             | ND                 | ND                | 102.7799           | 571.0000            |
| 25                                | 8121      | 7/10/2008   | ND                 | 0.0563          | ND                  | ND                  | ND                 | 0.0005            | 0.0283            | ND             | ND              | 48.1340             | ND                 | 19.9387             | ND                 | ND                | 70.8519            | 504.0000            |
| 26                                | 8122      | 7/10/2008   | 0.0023             | 0.1446          | ND                  | ND                  | ND                 | 0.0009            | 0.0090            | ND             | ND              | 22.5284             | 0.0008             | 13.5068             | ND                 | ND                | 40.6862            | 427.0000            |
| 27                                | 8123      | 7/10/2008   | 0.0025             | 0.1754          | ND                  | ND                  | ND                 | 0.0007            | 0.0069            | ND             | ND              | 21.7879             | ND                 | 14.2751             | ND                 | ND                | 38.2755            | 429.0000            |
| 28                                | 8124      | 7/10/2008   | ND                 | 0.0974          | ND                  | ND                  | ND                 | ND                | 0.0137            | ND             | ND              | 22.6891             | ND                 | 12.6976             | ND                 | ND                | 35.3277            | 400.0000            |
| 29                                | 8125      | 7/10/2008   | 0.0023             | 0.0900          | ND                  | ND                  | ND                 | 0.0006            | 0.0082            | ND             | ND              | 81.2903             | ND                 | 17.2408             | ND                 | ND                | 65.9408            | 657.0000            |
| 30                                | 8126      | 7/10/2008   | ND                 | 0.0732          | ND                  | ND                  | ND                 | 0.0007            | 0.0294            | ND             | ND              | 75.1522             | 0.0007             | 21.2143             | ND                 | ND                | 119.2140           | 760.0000            |
| 31                                | 8127      | 7/10/2008   | 0.0019             | 0.1448          | ND                  | ND                  | ND                 | 0.0007            | 0.0208            | ND             | ND              | 25.6838             | ND                 | ND                  | ND                 | ND                | 142.0072           | 699.0000            |
| 32                                | 8128      | 7/10/2008   | 0.0021             | 0.1736          | ND                  | ND                  | ND                 | 0.0006            | 0.0354            | ND             | ND              | 21.2396             | 0.0007             | 15.2247             | ND                 | ND                | 36.6613            | 407.0000            |
| 33                                | 8129      | 7/10/2008   | 0.0025             | 0.1754          | ND                  | ND                  | ND                 | 0.0008            | 0.0062            | ND             | ND              | 21.3744             | ND                 | 12.1549             | ND                 | ND                | 35.6881            | 406.0000            |
| 34                                | 8130      | 7/10/2008   | 0.0037             | 0.1930          | ND                  | ND                  | ND                 | 0.0021            | 0.0053            | ND             | ND              | 65.1665             | ND                 | 29.2012             | ND                 | ND                | 90.5888            | 794.0000            |
| 35                                | 8131      | 7/17/2008   | 0.0029             | 0.0727          | ND                  | ND                  | ND                 | 0.0016            | 0.0091            | ND             | ND              | 77.6097             | ND                 | 18.4599             | ND                 | ND                | 41.3971            | 500.0000            |
| 36                                | 8132      | 7/17/2008   | 0.0026             | 0.0376          | ND                  | ND                  | ND                 | 0.0015            | 0.0160            | ND             | ND              | 54.1069             | ND                 | 28.0786             | ND                 | ND                | 68.1332            | 554.0000            |



| Drinking Water Primary Standards  |             |           | 0.01       | 2          | 0.004      | 0.005      | 25           | 0.1        | 1.3        | 4         | 2          | 10000      | 1000       | 44.3        | .015       | .05        | 500         | 2000        |
|-----------------------------------|-------------|-----------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|
| Sample No                         | Tested Date |           | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |
| 37                                | 8133        | 7/17/2008 | 0.0028     | 0.0292     | ND         | ND         | ND           | 0.0014     | 0.0268     | ND        | ND         | 53.6548    | 0.0009     | 28.4037     | ND         | ND         | 215.4163    | 823.0000    |
| 38                                | 8134        | 7/17/2008 | 0.0024     | 0.0825     | ND         | ND         | ND           | 0.0016     | 0.0214     | ND        | ND         | 56.4733    | 0.0009     | 29.2197     | 0.0017     | ND         | 158.0751    | 908.0000    |
| 39                                | 8135        | 7/17/2008 | 0.0020     | 0.1343     | ND         | ND         | ND           | 0.0012     | 0.0173     | ND        | ND         | 32.8762    | ND         | 36.3765     | ND         | ND         | 32.3469     | 495.0000    |
| 40                                | 8136        | 7/17/2008 | 0.0074     | 0.1622     | ND         | ND         | ND           | 0.0019     | 0.0102     | ND        | ND         | 20.9937    | ND         | 11.6737     | ND         | ND         | 20.1841     | 300.0000    |
| 41                                | 8137        | 7/17/2008 | 0.0020     | 0.1380     | ND         | ND         | ND           | 0.0018     | 0.0285     | ND        | ND         | 28.5962    | ND         | 12.5503     | ND         | ND         | 27.1548     | 361.0000    |
| 42                                | 8138        | 7/17/2008 | 0.0024     | 0.1585     | ND         | ND         | ND           | 0.0010     | 0.0202     | ND        | ND         | 32.3557    | ND         | 15.0983     | ND         | ND         | 37.2364     | 469.0000    |
| 43                                | 8139        | 7/17/2008 | 0.0034     | 0.1267     | ND         | ND         | ND           | 0.0016     | 0.0198     | ND        | ND         | 19.3666    | ND         | 12.6182     | ND         | ND         | 20.3314     | 340.0000    |
| 44                                | 8140        | 7/17/2008 | 0.0065     | 0.0196     | ND         | ND         | ND           | 0.0017     | 0.0112     | ND        | ND         | 74.4199    | 0.0009     | 14.8569     | ND         | 0.0055     | 583.5358    | 1443.0000   |
| 45                                | 8141        | 7/17/2008 | 0.0081     | 0.0361     | ND         | ND         | ND           | 0.0011     | 0.0143     | ND        | ND         | 84.5990    | ND         | ND          | ND         | ND         | 243.3442    | 858.0000    |
| 46                                | 8142        | 7/17/2008 | 0.0021     | 0.1621     | ND         | ND         | ND           | 0.0010     | 0.0158     | ND        | ND         | 41.9770    | ND         | 15.3728     | ND         | ND         | 43.2376     | 445.0000    |
| 47                                | 8143        | 7/17/2008 | 0.0035     | 0.0380     | ND         | ND         | ND           | 0.0012     | 0.0355     | ND        | ND         | 387.5474   | 0.0076     | 11.5627     | ND         | 0.0398     | 1734.1230   | 5864.0000   |
| 48                                | 8144        | 7/17/2008 | 0.0060     | 0.0494     | ND         | ND         | ND           | 0.0026     | 0.0346     | ND        | ND         | 529.5783   | 0.0031     | 15.9000     | ND         | 0.0289     | 1906.1810   | 6317.0000   |
| 49                                | 8145        | 7/17/2008 | 0.0058     | 0.0617     | ND         | ND         | ND           | 0.0019     | 0.0125     | ND        | ND         | 1062.5050  | 0.0035     | 15.3345     | ND         | 0.0343     | 2215.5680   | 8850.0000   |
| 50                                | 8146        | 7/17/2008 | 0.0038     | 0.0436     | ND         | ND         | ND           | 0.0021     | 0.0172     | ND        | ND         | 503.7664   | 0.0023     | 100.2344    | ND         | 0.0168     | 1473.7110   | 5304.0000   |
| 51                                | 8147        | 7/17/2008 | 0.0064     | 0.0502     | ND         | ND         | ND           | 0.0015     | 0.0142     | ND        | ND         | 103.1999   | ND         | 23.4224     | ND         | ND         | 101.2172    | 591.0000    |
| 52                                | 8148        | 7/17/2008 | 0.0022     | 0.0373     | ND         | ND         | ND           | ND         | 0.0082     | ND        | ND         | 97.7780    | ND         | 16.3773     | ND         | ND         | 95.0937     | 469.0000    |
| 53                                | 8149        | 7/17/2008 | 0.0020     | 0.1599     | ND         | ND         | ND           | 0.0008     | 0.0029     | ND        | ND         | 20.0718    | ND         | ND          | ND         | ND         | 31.5562     | 373.0000    |
| 54                                | 8150        | 7/17/2008 | 0.0037     | 0.0691     | ND         | ND         | ND           | 0.0010     | 0.0282     | ND        | ND         | 27.8448    | ND         | ND          | 0.0029     | ND         | 32.4339     | 394.0000    |
| 55                                | 8163        | 8/6/2008  | 0.0045     | 0.0371     | ND         | ND         | ND           | 0.0007     | 0.0073     | ND        | ND         | 13.5928    | ND         | ND          | ND         | ND         | 17.2173     | 225.0000    |
| Test Count that Exceeded Standard |             |           | 0          | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 3           | 0          | 0          | 7           | 6           |

ND - Not Detected

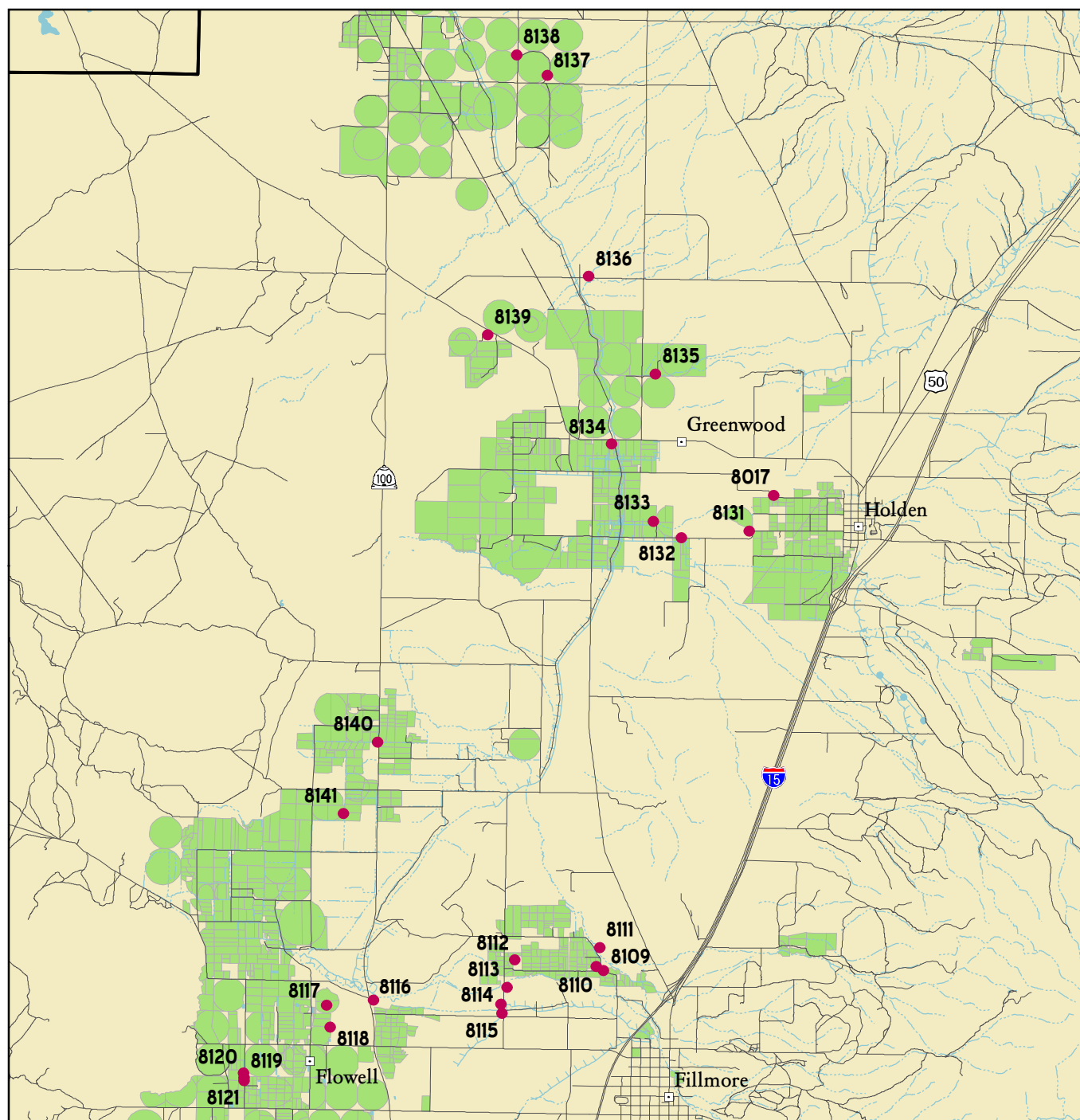
| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8014      | 5/23/2008   | ND         | ND         | 88.6302    | 0.0073     | ND        | ND         | 258.7000     | 0.0013     | 7.8000  | 23.7650    | 34.1164     | 375.0000    | 0.7777     |
| 2                                   | 8015      | 5/23/2008   | ND         | ND         | 492.7731   | 0.0304     | 1.1316    | ND         | 458.5000     | 0.0028     | 7.6600  | 6.8781     | 146.3401    | 1139.0000   | 0.0359     |
| 3                                   | 8016      | 5/23/2008   | ND         | ND         | 143.8381   | 0.0111     | 1.7088    | ND         | 257.2000     | 0.0069     | 7.8000  | 8.6331     | 57.8933     | 510.0000    | 0.0755     |
| 4                                   | 8017      | 5/23/2008   | ND         | ND         | 31.4733    | 0.0223     | ND        | ND         | 333.1000     | 0.0004     | 8.0100  | 9.5649     | 38.5621     | 455.0000    | 0.0298     |
| 5                                   | 8070      | 6/30/2008   | ND         | ND         | 757.1533   | 0.0106     | ND        | ND         | 1104.4000    | 0.3302     | 7.3600  | 13.1110    | 363.9435    | 1744.0000   | 0.0384     |
| 6                                   | 8071      | 6/30/2008   | ND         | ND         | 924.9727   | 0.0098     | ND        | 0.2366     | 1284.9000    | 0.3414     | 7.4800  | 17.2316    | 672.6735    | 2493.0000   | 0.0070     |
| 7                                   | 8074      | 6/30/2008   | ND         | ND         | 562.7499   | ND         | ND        | ND         | 488.3000     | 0.2162     | 7.6900  | 1.3362     | 286.1388    | 1394.0000   | 0.0040     |
| 8                                   | 8075      | 6/30/2008   | ND         | ND         | 529.3371   | 0.0074     | ND        | ND         | 692.1000     | 0.4827     | 7.7100  | 15.3279    | 480.1263    | 1899.0000   | 0.0044     |
| 9                                   | 8076      | 6/30/2008   | ND         | ND         | 97.7361    | 0.0057     | ND        | ND         | 263.7000     | 0.0050     | 7.1200  | 5.3303     | 34.8585     | 354.0000    | 0.2392     |
| 10                                  | 8077      | 6/30/2008   | ND         | ND         | 77.2400    | 0.0146     | ND        | ND         | 259.9000     | 0.0016     | 7.4400  | 6.8975     | 33.2096     | 369.0000    | 0.3758     |
| 11                                  | 8078      | 6/30/2008   | ND         | ND         | 348.9345   | 0.0170     | ND        | ND         | 486.7000     | 0.0063     | 7.5400  | 13.7061    | 117.2584    | 936.0000    | 0.1983     |
| 12                                  | 8079      | 6/30/2008   | ND         | ND         | 32.0872    | 0.0074     | ND        | ND         | 235.3000     | 0.0004     | 7.6400  | 6.3038     | 30.6827     | 314.0000    | 0.0881     |
| 13                                  | 8109      | 7/10/2008   | ND         | ND         | 598.9434   | 0.0181     | ND        | ND         | 1024.8000    | 0.0039     | 7.7400  | 8.9733     | 152.0856    | 1435.0000   | 0.0288     |
| 14                                  | 8110      | 7/10/2008   | ND         | ND         | 200.1498   | 0.0091     | ND        | ND         | 439.6000     | 0.0040     | 7.6500  | 9.0863     | 75.4265     | 634.0000    | 0.1507     |
| 15                                  | 8111      | 7/10/2008   | ND         | ND         | 1373.4780  | 0.0259     | ND        | ND         | 1431.0000    | 0.0050     | 7.6300  | 7.2318     | 555.8121    | 2982.0000   | 0.0182     |
| 16                                  | 8112      | 7/10/2008   | ND         | ND         | 36.9400    | 0.0044     | ND        | ND         | 324.1000     | ND         | 7.8100  | 16.7747    | 24.9434     | 410.0000    | 0.0176     |
| 17                                  | 8113      | 7/10/2008   | ND         | ND         | 82.2084    | 0.0247     | ND        | ND         | 388.1000     | 0.0006     | 7.6300  | 7.9872     | 31.9684     | 468.0000    | 0.2645     |
| 18                                  | 8114      | 7/10/2008   | ND         | ND         | 97.4656    | 0.0114     | ND        | ND         | 379.9000     | 0.0006     | 7.7000  | 7.5087     | 42.4061     | 505.0000    | 0.1317     |
| 19                                  | 8115      | 7/10/2008   | ND         | ND         | 73.3668    | 0.0101     | ND        | ND         | 322.4000     | 0.0005     | 7.8600  | 7.6485     | 33.4277     | 412.0000    | 0.5293     |
| 20                                  | 8116      | 7/10/2008   | ND         | ND         | 26.6416    | 0.0130     | ND        | ND         | 333.9000     | 0.0003     | 7.7200  | 13.7484    | 44.7401     | 411.0000    | 0.0709     |
| 21                                  | 8117      | 7/10/2008   | ND         | ND         | 35.4747    | 0.0106     | ND        | ND         | 299.0000     | ND         | 7.7100  | 11.7345    | 27.2774     | 383.0000    | 0.0047     |
| 22                                  | 8118      | 7/10/2008   | ND         | ND         | 52.0105    | 0.0211     | ND        | ND         | 265.1000     | 0.0006     | 7.8800  | 15.1180    | 26.2372     | 347.0000    | 1.5740     |
| 23                                  | 8119      | 7/10/2008   | ND         | ND         | 56.0390    | 0.0112     | ND        | ND         | 303.0000     | 0.0007     | 7.9000  | 11.7747    | 56.5579     | 455.0000    | 0.0417     |
| 24                                  | 8120      | 7/10/2008   | ND         | ND         | 93.9181    | 0.0155     | ND        | ND         | 362.1000     | 0.0004     | 7.7800  | 8.4574     | 102.7799    | 571.0000    | 0.0078     |
| 25                                  | 8121      | 7/10/2008   | ND         | ND         | 74.1942    | 0.0283     | ND        | ND         | 341.3000     | 0.0021     | 7.8400  | 8.0850     | 70.8519     | 504.0000    | 0.0225     |
| 26                                  | 8122      | 7/10/2008   | ND         | ND         | 31.2633    | 0.0090     | ND        | ND         | 338.4000     | 0.0005     | 7.8600  | 9.1258     | 40.6862     | 427.0000    | 0.0214     |
| 27                                  | 8123      | 7/10/2008   | ND         | ND         | 33.1727    | 0.0069     | ND        | ND         | 346.6000     | 0.0008     | 7.7900  | 9.3239     | 38.2755     | 429.0000    | 0.0435     |
| 28                                  | 8124      | 7/10/2008   | ND         | ND         | 33.4607    | 0.0137     | ND        | ND         | 313.6000     | 0.0361     | 7.8900  | 8.8102     | 35.3277     | 400.0000    | 0.0099     |
| 29                                  | 8125      | 7/10/2008   | ND         | ND         | 179.8741   | 0.0082     | ND        | ND         | 428.4000     | 0.0022     | 7.7600  | 10.6300    | 65.9408     | 657.0000    | 0.2655     |
| 30                                  | 8126      | 7/10/2008   | ND         | ND         | 246.9686   | 0.0294     | ND        | ND         | 404.9000     | 0.0018     | 7.7900  | 9.9141     | 119.2140    | 760.0000    | 0.0187     |
| 31                                  | 8127      | 7/10/2008   | ND         | ND         | 214.6809   | 0.0208     | ND        | ND         | 317.0000     | 0.0011     | 7.8500  | 9.2293     | 142.0072    | 699.0000    | 0.2817     |
| 32                                  | 8128      | 7/10/2008   | ND         | ND         | 33.9936    | 0.0354     | ND        | ND         | 322.7000     | 0.0010     | 7.8900  | 8.7660     | 36.6613     | 407.0000    | 0.0281     |
| 33                                  | 8129      | 7/10/2008   | ND         | ND         | 28.3935    | 0.0062     | ND        | ND         | 322.5000     | 0.0003     | 7.7700  | 9.0012     | 35.6881     | 406.0000    | 0.0926     |
| 34                                  | 8130      | 7/10/2008   | ND         | ND         | 341.9340   | 0.0053     | ND        | ND         | 468.0000     | 0.0003     | 7.8200  | 12.8927    | 90.5888     | 794.0000    | 0.0178     |
| 35                                  | 8131      | 7/17/2008   | ND         | ND         | 33.0501    | 0.0091     | ND        | ND         | 273.6000     | 0.0002     | 7.9100  | 9.6202     | 41.3971     | 500.0000    | 0.0309     |
| 36                                  | 8132      | 7/17/2008   | ND         | ND         | 73.0610    | 0.0160     | ND        | ND         | 391.9000     | 0.0004     | 7.7400  | 7.9212     | 68.1332     | 554.0000    | 0.0061     |
| 37                                  | 8133      | 7/17/2008   | ND         | ND         | 153.4717   | 0.0268     | ND        | ND         | 553.6000     | 0.0003     | 7.7200  | 8.0061     | 215.4163    | 823.0000    | 0.0102     |
| 38                                  | 8134      | 7/17/2008   | ND         | ND         | 305.4708   | 0.0214     | ND        | ND         | 641.9000     | 0.0008     | 7.5800  | 10.4055    | 158.0751    | 908.0000    | 0.1032     |



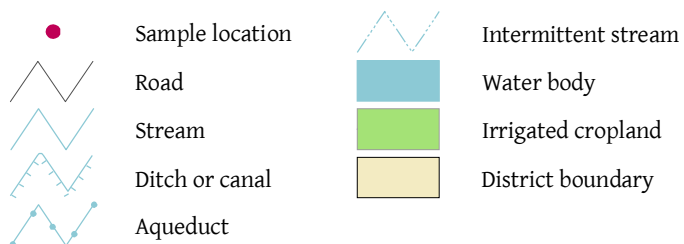
| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 39                                  | 8135      | 7/17/2008   | ND         | ND         | 105.2906   | 0.0173     | ND        | ND         | 400.9000     | ND         | 7.6600  | 8.2281     | 32.3469     | 495.0000    | 0.0070     |
| 40                                  | 8136      | 7/17/2008   | ND         | ND         | 44.0639    | 0.0102     | ND        | ND         | 223.2000     | 0.0004     | 7.9600  | 15.1511    | 20.1841     | 300.0000    | 0.0026     |
| 41                                  | 8137      | 7/17/2008   | ND         | ND         | 84.6904    | 0.0285     | ND        | ND         | 272.1000     | 0.0007     | 8.0300  | 9.4111     | 27.1548     | 361.0000    | 0.0058     |
| 42                                  | 8138      | 7/17/2008   | ND         | ND         | 77.0369    | 0.0202     | ND        | ND         | 380.7000     | 0.0005     | 7.9000  | 8.5831     | 37.2364     | 469.0000    | 0.0083     |
| 43                                  | 8139      | 7/17/2008   | ND         | ND         | 47.7439    | 0.0198     | ND        | ND         | 269.9000     | 0.0006     | 7.9500  | 10.5652    | 20.3314     | 340.0000    | 0.0071     |
| 44                                  | 8140      | 7/17/2008   | ND         | ND         | 340.0051   | 0.0112     | ND        | ND         | 944.5000     | 0.0003     | 7.5900  | 16.6295    | 583.5358    | 1443.0000   | 0.0161     |
| 45                                  | 8141      | 7/17/2008   | ND         | ND         | 215.1324   | 0.0143     | ND        | ND         | 480.6000     | 0.0003     | 7.8900  | 19.2379    | 243.3442    | 858.0000    | 0.0046     |
| 46                                  | 8142      | 7/17/2008   | ND         | ND         | 72.6500    | 0.0158     | ND        | ND         | 309.5000     | ND         | 8.0000  | 9.0307     | 43.2376     | 445.0000    | 0.0054     |
| 47                                  | 8143      | 7/17/2008   | ND         | ND         | 2788.9450  | 0.0355     | ND        | ND         | 2324.8000    | 0.0035     | 7.3500  | 18.5726    | 1734.1230   | 5864.0000   | 0.0213     |
| 48                                  | 8144      | 7/17/2008   | ND         | ND         | 2947.4690  | 0.0346     | ND        | ND         | 2252.3000    | ND         | 7.5600  | 18.1844    | 1906.1810   | 6317.0000   | 0.0069     |
| 49                                  | 8145      | 7/17/2008   | ND         | ND         | 4428.7190  | 0.0125     | ND        | ND         | 2762.7000    | 0.0004     | 7.5400  | 16.2709    | 2215.5680   | 8850.0000   | 0.0059     |
| 50                                  | 8146      | 7/17/2008   | ND         | ND         | 2463.8440  | 0.0172     | ND        | ND         | 2015.6000    | 0.0002     | 7.5500  | 12.6963    | 1473.7110   | 5304.0000   | 0.0050     |
| 51                                  | 8147      | 7/17/2008   | ND         | ND         | 129.7856   | 0.0142     | ND        | ND         | 319.2000     | ND         | 7.9800  | 12.8632    | 101.2172    | 591.0000    | 0.0030     |
| 52                                  | 8148      | 7/17/2008   | ND         | ND         | 80.6503    | 0.0082     | ND        | ND         | 194.6000     | 0.0593     | 7.6600  | 6.8447     | 95.0937     | 469.0000    | 1.3890     |
| 53                                  | 8149      | 7/17/2008   | ND         | ND         | 30.3489    | 0.0029     | ND        | ND         | 309.4000     | ND         | 8.0500  | 6.2164     | 31.5562     | 373.0000    | 0.0263     |
| 54                                  | 8150      | 7/17/2008   | ND         | ND         | 26.8118    | 0.0282     | ND        | ND         | 299.7000     | 0.0008     | 7.9200  | 9.3300     | 32.4339     | 394.0000    | 1.7730     |
| 55                                  | 8163      | 8/6/2008    | ND         | ND         | 14.3938    | 0.0073     | ND        | ND         | 176.3000     | 0.0009     | 7.9900  | 9.7277     | 17.2173     | 225.0000    | 0.0038     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 15         | 0          | 0         | 0          | 55           | 5          | 0       | 0          | 10          | 55          | 0          |

ND - Not Detected

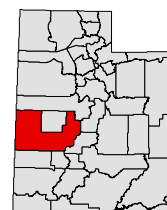
Map 19. Millard County District - Fillmore Area



Map Scale 1:152,064 (1 inch = 2.4 miles)

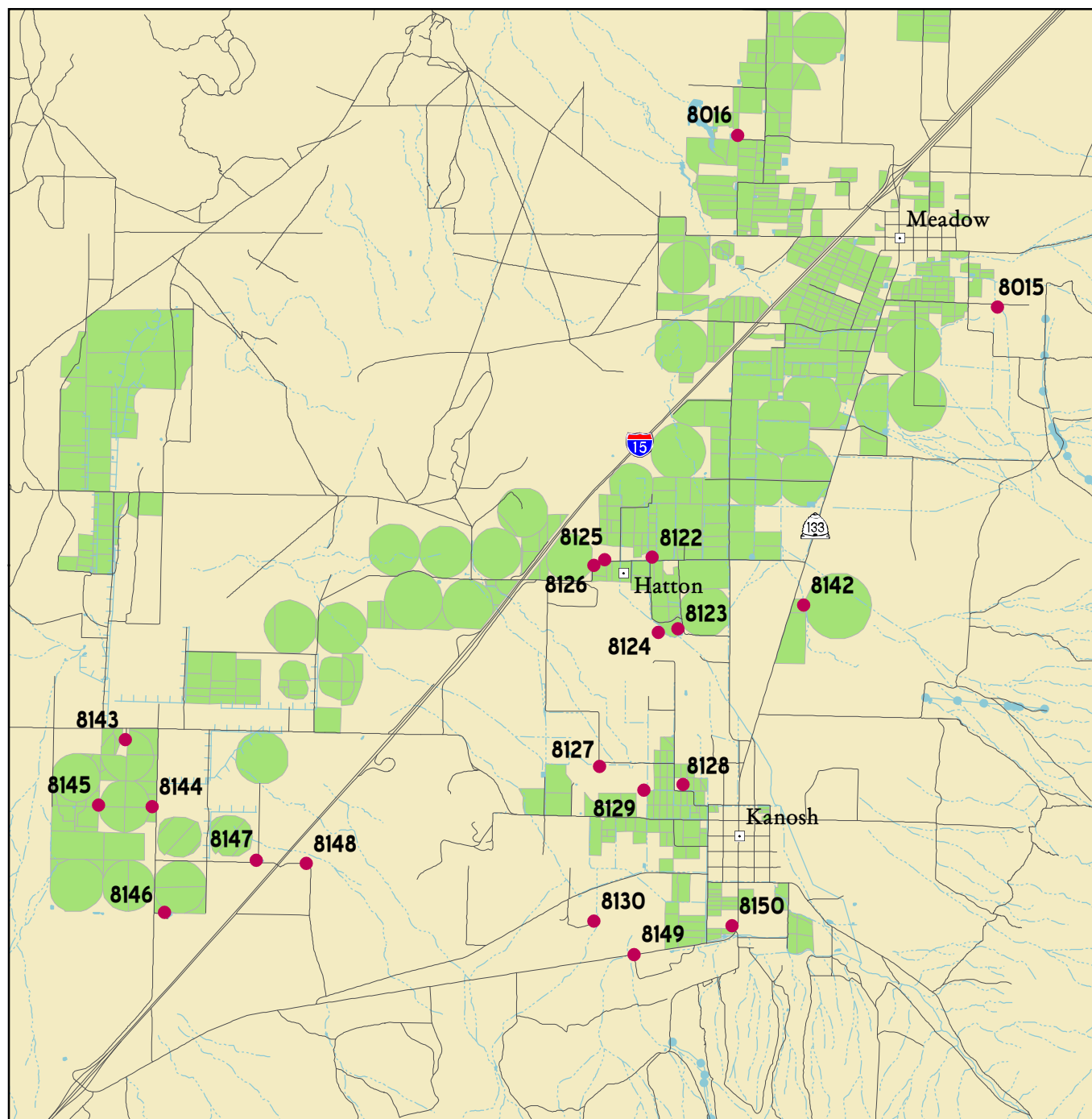


District Location

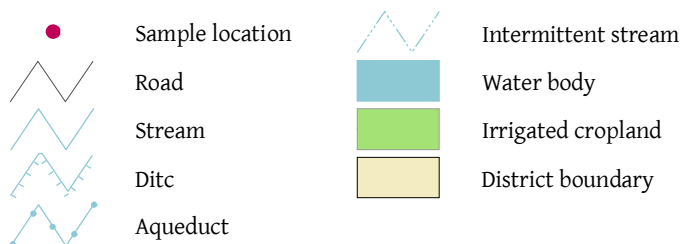




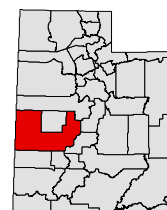
Map 20. Millard County District - Kanosh Area



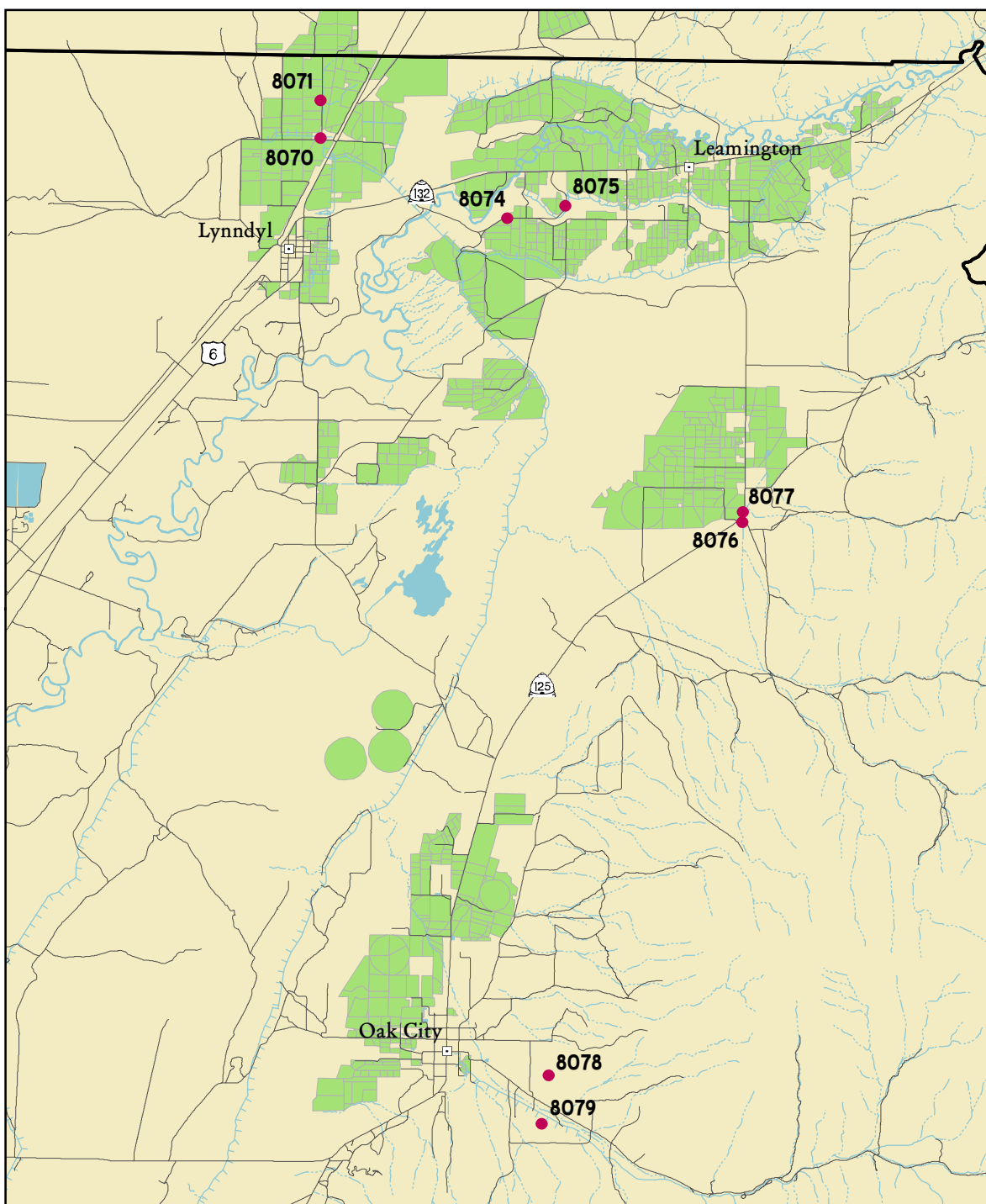
Map Scale 1:95,040 (1 inch = 1.5 miles)



District Location



Map 21. Millard County District - Oak City Area

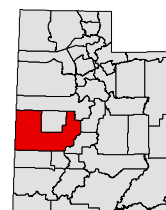


Map Scale 1:126,720 (1 inch = 2 miles)

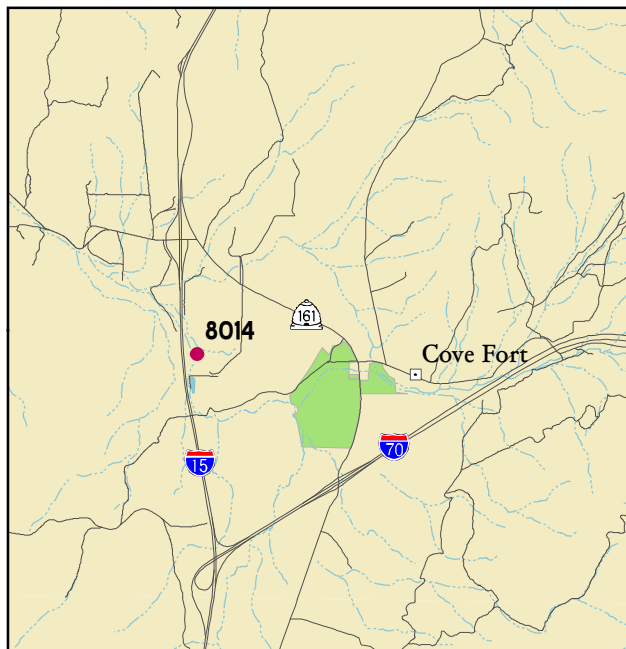


- |  |                 |  |                     |
|--|-----------------|--|---------------------|
|  | Sample location |  | Intermittent stream |
|  | Road            |  | Water body          |
|  | Stream          |  | Irrigated cropland  |
|  | Ditch or canal  |  | District boundary   |
|  | Aqueduct        |  |                     |

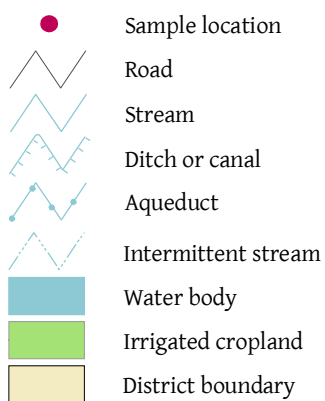
District Location



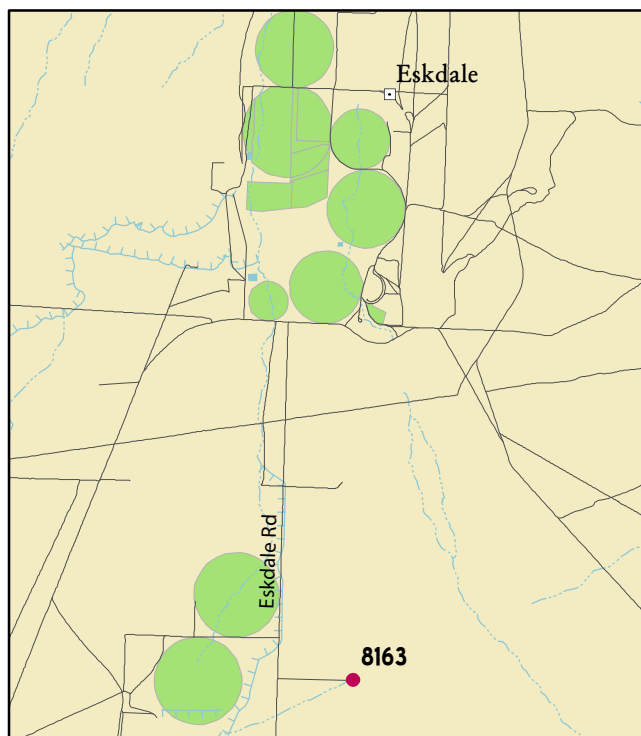
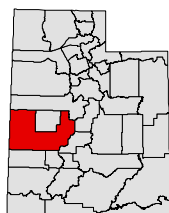
Map 22. Millard County District - Other Areas



Map Scale 1:101,376 (1 inch = 1.6 miles)



District Location



Map Scale 1:79,200 (1 inch = 1.25 miles)



Piute County District

General:

General Sample Information

| Sample No                      | Collected Date | Coliform   | Ecoli | Temperature       | EC              | TDS | SAR   | Hardness | Sample Site | Site Condition | Well Head | Material | Casing Condition | Cullinary | Irrigation                          | Industrial                          | Landscape                | Natural                  | Drainage                 | Other                    |
|--------------------------------|----------------|------------|-------|-------------------|-----------------|-----|-------|----------|-------------|----------------|-----------|----------|------------------|-----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8300           | 10/14/2008 | POS   | ND                | 59.9 F (15.5 C) | 588 | 369.0 | 0.600    | 289.9       | Well           | Clean     | Soil     | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                | 1          | 0     | ND - Not Detected |                 |     |       |          |             |                |           |          |                  |           |                                     |                                     |                          |                          |                          |                          |

Irrigation:

Irrigation Standards

| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                                 | 8300      | 10/16/2008  | ND         | 0.0841       | ND         | 70.8053    | 14.0638    | ND         | ND          | 0.0007     | 1.2070     | ND        | ND         | 347.7930     | 4.4308    | 0.0145     | 27.4052    |
| Test Count that Exceeded Standard |           |             | 0          | 0            | 0          | 0          | 0          | 0          | 0           | 0          | 1          | 0         | 0          | 1            | 0         | 0          | 0          |

ND - Not Detected

Irrigation Standards Continues

| Irrigation Standards Continues     |             |            | .2         | .01        | 70;230     | .2         | 5           | 10000        | 3;9        | .02         | 151;451;13 | .1         | 2      |
|------------------------------------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|------------|------------|--------|
| Sample No                          | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L  | Zn<br>mg/L |        |
| 1                                  | 8300        | 10/16/2008 | 0.0012     | 0.0017     | 24.8500    | 0.0010     | 0.0018      | ND           | 0.6000     | ND          | 369.0000   | 0.0070     | 0.0242 |
| Test Count that Exceeded Standard: |             |            | 0          | 0          | 0          | 0          | 0           | 0            | 0          | 1           | 0          | 0          |        |

ND - Not Detected

Livestock:

Livestock Standards

|                                    |             | 5          | 0.2  | 5      | .1     | 0.05 | 1    | 1      | .5     | 2    | 10   | 440  | .1     | 5.5-8.3 | .05  | 167;333 | 1000;3000; | 25     |
|------------------------------------|-------------|------------|------|--------|--------|------|------|--------|--------|------|------|------|--------|---------|------|---------|------------|--------|
|                                    |             | Al         | As   | B      | Be     | Cd   | Co   | Cr     | Cu     | F    | Hg   | NO3  | Pb     | pH      | Se   | SO4     | TDS        | Zn     |
| Sample No                          | Tested Date | mg/L       | mg/L | mg/L   | mg/L   | mg/L | mg/L | mg/L   | mg/L   | mg/L | ug/L | mg/L | mg/L   | -       | mg/L | mg/L    | mg/L       | mg/L   |
| 1                                  | 8300        | 10/16/2008 | ND   | 0.0099 | 0.0841 | ND   | ND   | 0.0007 | 1.2070 | ND   | ND   | ND   | 0.0018 | 7.6800  | ND   | 29.9325 | 369.0000   | 0.0242 |
| Test Count that Exceeded Standard: |             | 0          | 0    | 0      | 0      | 0    | 0    | 0      | 1      | 0    | 0    | 0    | 0      | 0       | 0    | 0       | 0          | 0      |

ND - Not Detected

## Culinary:

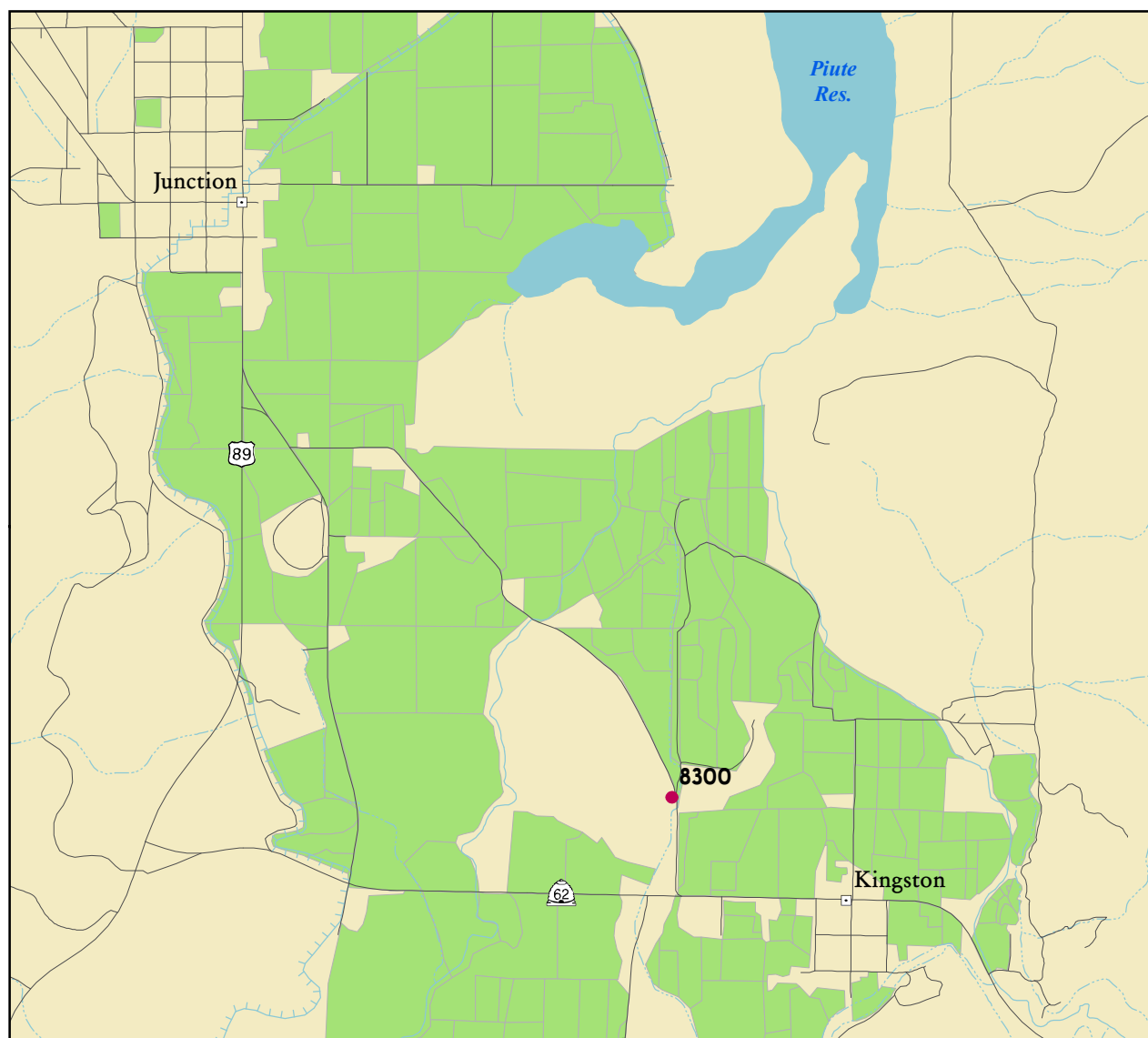
| Drinking Water Primary Standard   |             | 0.01       | 2          | 0.004      | 0.005      | 25           | 0.1        | 1.3        | 4         | 2          | 10000      | 1000       | 44.3        | .015       | .05        | 500         | 2000        |          |
|-----------------------------------|-------------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|----------|
| Sample No                         | Tested Date | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |          |
| 1                                 | 8300        | 10/16/2008 | 0.0099     | 0.0314     | ND         | ND           | ND         | 0.0007     | 1.2070    | ND         | ND         | 24.8500    | 0.0010      | ND         | 0.0018     | ND          | 29.9325     | 369.0000 |
| Test Count that Exceeded Standard |             | 0          | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0           |          |

ND - Not Detected

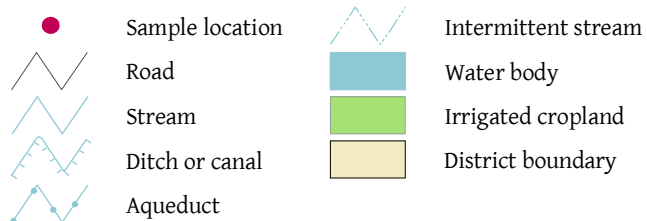
| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8300      | 10/16/2008  | ND         | ND         | 14.0638    | 1.2070     | ND        | ND         | 289.9000     | 0.0012     | 7.6800  | 21.0050    | 29.9325     | 369.0000    | 0.0242     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 0          | 1          | 0         | 0          | 1            | 0          | 0       | 0          | 0           | 1           | 0          |

ND - Not Detected

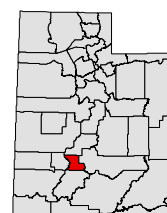
Map 23. Piute County District



Map Scale 1:31,680 (1 inch = 0.5 miles)



District Location



# Sanpete County District

## General:

### General Sample Information

|    | Sample No | Collected Date | Coliform | Ecoli | Temperature     | EC   | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head    | Material | Casing Condition | Cullinary                           | Irrigation                          | Industrial               | Landscape                | Natural                             | Drainage                 | Other                    |
|----|-----------|----------------|----------|-------|-----------------|------|----------|-----------|---------------|-------------|----------------|--------------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| 1  | 8030      | 5/27/2008      | ND       | ND    | 59.0 F (15.0 C) | 762  | 506.0    | 2.400     | 248.5         | Well        | Soil           | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 2  | 8046      | 6/17/2008      | ND       | ND    | 59.9 F (15.5 C) | 694  | 462.0    | 1.700     | 260.1         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 3  | 8047      | 6/17/2008      | POS      | ND    | 59.0 F (15.0 C) | 864  | 528.0    | 2.000     | 295.0         | Well        | Clean          | Pit Concrete | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 4  | 8048      | 6/17/2008      | ND       | ND    | 58.5 F (14.7 C) | 1289 | 736.0    | 2.200     | 469.1         | Well        | Clean          | Soil         | Steel    | Subsidence       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 5  | 8049      | 6/17/2008      | ND       | ND    | 59.0 F (15.0 C) | 862  | 523.0    | 2.000     | 275.4         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 6  | 8050      | 6/17/2008      | ND       | ND    | 55.9 F (13.3 C) | 2390 | 1422.    | 4.700     | 572.7         | Well        | Gravel         | Pit Concrete | Steel    | Open             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 7  | 8051      | 6/17/2008      | ND       | ND    | 57.9 F (14.4 C) | 847  | 530.0    | 1.500     | 288.7         | Well        | Clean          | Well House   | Steel    | Open             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 8  | 8052      | 6/17/2008      | ND       | ND    | 63.5 F (17.5 C) | 2830 | 2576.    | 5.600     | 602.6         | Well        | Clean          | Pit Wood     | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 9  | 8053      | 6/17/2008      | POS      | ND    | 54.1 F (12.3 C) | 2830 | 2639.    | 5.300     | 675.7         | Well        | Clean          | Covered      | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 | 8054      | 6/17/2008      | POS      | ND    | 59.2 F (15.1 C) | 670  | 417.0    | 2.400     | 162.7         | Well        | Clean          | Covered      | Steel    |                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 11 | 8055      | 6/17/2008      | POS      | ND    | 56.8 F (13.8 C) | 2470 | 2390.    | 11.70     | 332.7         | Well        | Clean          | Pit Concrete | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 | 8056      | 6/17/2008      | ND       | ND    | 56.8 F (13.8 C) | 1277 | 709.0    | 5.800     | 207.4         | Well        | Clean          | Well House   | Steel    |                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | 8057      | 6/17/2008      | ND       | ND    | 62.4 F (16.9 C) | 1079 | 561.0    | 2.800     | 288.9         | Well        | Clean          | Well House   | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 8058      | 6/17/2008      | ND       | ND    | 60.1 F (15.6 C) | 2590 | 1786.    | 6.500     | 601.8         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 15 | 8059      | 6/17/2008      | ND       | ND    | 56.8 F (13.8 C) | 1811 | 1893.    | 7.300     | 436.7         | Well        | Livestock      | Well House   | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 16 | 8060      | 6/17/2008      | ND       | ND    | 54.5 F (12.5 C) | 4710 | 2344.    | 7.700     | 1188.         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 17 | 8061      | 6/17/2008      | ND       | ND    | 55.8 F (13.2 C) | 2540 | 2559.    | 3.500     | 759.6         | Well        | Livestock      | Soil         | Steel    | Open             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 18 | 8062      | 6/17/2008      | ND       | ND    | 55.2 F (12.9 C) | 2540 | 1711.    | 3.500     | 711.8         | Well        | Clean          | Well House   | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 19 | 8063      | 6/17/2008      | ND       | ND    | 58.1 F (14.5 C) | 687  | 1280.    | 0.600     | 309.6         | Well        | Vegetated      | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 20 | 8064      | 6/17/2008      | ND       | ND    | 59.2 F (15.1 C) | 945  | 606.0    | 2.100     | 328.1         | Well        | Vegetated      | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 21 | 8065      | 6/17/2008      | ND       | ND    | 61.0 F (16.1 C) | 1124 | 674.0    | 48.60     | 5.200         | Well        | Vegetated      | Lawn         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 22 | 8066      | 6/17/2008      | ND       | ND    | 58.1 F (14.5 C) | 982  | 636.0    | 1.000     | 498.1         | Well        | Vegetated      | Lawn         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 23 | 8067      | 6/17/2008      | ND       | ND    | 69.8 F (21.0 C) | 914  | 619.0    | 1.500     | 441.3         | Well        | Vegetated      | Lawn         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 24 | 8091      | 7/1/2008       | POS      | POS   | 68.0 F (20.0 C) | 347  | 228.0    | 0.100     | 181.2         | Pond        | Surface Water  | Natural      | Earth    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 25 | 8092      | 7/1/2008       | ND       | ND    | 45.1 F (7.3 C)  | 614  | 315.0    | 0.100     | 308.0         | Spring      | Vegetated      | Natural      | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 26 | 8093      | 7/1/2008       | POS      | POS   | 45.5 F (7.5 C)  | 371  | 225.0    | 0.100     | 212.5         | Stream      | Vegetated      | Natural      | Earth    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 27 | 8094      | 7/1/2008       | POS      | ND    | 45.1 F (7.3 C)  | 802  | 467.0    | 0.500     | 421.4         | Spring      | Vegetated      | Natural      | PVC      | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 28 | 8095      | 7/1/2008       | POS      | POS   | 45.1 F (7.3 C)  | 377  | 228.0    | 0.100     | 213.7         | Stream      | Vegetated      | Natural      | Earth    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 29 | 8096      | 7/1/2008       | POS      | ND    | 47.3 F (8.5 C)  | 490  | 291.0    | 0.100     | 279.0         | Spring      | Vegetated      | Natural      | Earth    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 30 | 8097      | 7/1/2008       |          |       | 49.5 F (9.7 C)  | 755  | 405.0    | 0.500     | 363.6         | Seep        | Vegetated      | Soil         | Earth    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 31 | 8098      | 7/1/2008       | POS      | POS   | 53.4 F (11.9 C) | 374  | 227.0    | 0.100     | 212.1         | Ditch       | Surface Water  | Natural      | Earth    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 32 | 8099      | 7/1/2008       | POS      | ND    | 55.8 F (13.2 C) | 532  | 311.0    | 0.300     | 285.4         | Well        | Clean          | Well House   |          |                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 33 | 8100      | 7/1/2008       | ND       | ND    | 59.2 F (15.1 C) | 468  | 290.0    | 0.500     | 233.9         | Well        | Vegetated      | Lawn         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 34 | 8101      | 7/1/2008       | ND       | ND    | 58.3 F (14.6 C) | 1991 | 1472.    | 4.500     | 618.2         | Well        | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 35 | 8102      | 7/1/2008       | POS      | POS   | 54.9 F (12.7 C) | 542  | 331.0    | 0.300     | 275.9         | Spring      | Livestock      | Soil         | Earth    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 36 | 8103      | 7/1/2008       | POS      | ND    | 52.2 F (11.2 C) | 524  | 313.0    | 0.400     | 267.4         | Well        | Livestock      | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |



## General Sample Information

| Sample No                      | Collected Date | Coliform  | Ecoli | Temperatura | EC                | Sample Site | Site Condition | Well Head | Material | Casing Condition | Cullinary | Irriga-tion  | Indust-rial | Lands-cape | Natural                             | Drain-age                           | Other                    |                          |                                     |                          |                          |
|--------------------------------|----------------|-----------|-------|-------------|-------------------|-------------|----------------|-----------|----------|------------------|-----------|--------------|-------------|------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| 37                             | 8104           | 7/1/2008  | POS   | ND          | 60.6 F (15.9 C)   | 631         | 394.0          | 0.400     | 335.6    | Spring           | Clean     | Inside Home  | Rock        | Open       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 38                             | 8105           | 7/1/2008  |       |             | 60.6 F (15.9 C)   | 631         | 368.0          | 0.400     | 315.4    | Spring           | Clean     | Covered      | PVC         | Open       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 39                             | 8106           | 7/1/2008  | POS   | POS         | 54.3 F (12.4 C)   | 500         | 302.0          | 0.400     | 259.1    | Spring           | Clean     | Covered      | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 40                             | 8107           | 7/1/2008  | ND    | ND          | 61.3 F (16.3 C)   | 1241        | 847.0          | 10.90     | 118.3    | Well             | Livestock | Well House   | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 41                             | 8108           | 7/1/2008  | POS   | ND          | 64.2 F (17.9 C)   | 604         | 385.0          | 0.400     | 327.7    | Well             | Clean     | Gravel       | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 42                             | 8196           | 8/18/2008 | ND    | ND          | 51.4 F (10.8 C)   | 1583        | 1097.          | 0.600     | 844.4    | Well             | Vegetated | Soil         | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 43                             | 8197           | 8/18/2008 | ND    | ND          | 59.2 F (15.1 C)   | 1123        | 734.0          | 48.00     | 5.100    | Well             | Vegetated | Gravel       | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 44                             | 8198           | 8/18/2008 | POS   | ND          | 53.4 F (11.9 C)   | 1303        | 838.0          | 55.20     | 5.100    | Well             | Gravel    | Covered      | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 45                             | 8199           | 8/18/2008 | ND    | ND          | 56.1 F (13.4 C)   | 1514        | 850.0          | 39.10     | 10.40    | Well             | Vegetated | Soil         | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 46                             | 8200           | 8/18/2008 | ND    | ND          | 60.6 F (15.9 C)   | 1384        | 819.0          | 14.00     | 66.10    | Well             | Vegetated | Well House   | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 47                             | 8201           | 8/18/2008 | ND    | ND          | 58.5 F (14.7 C)   | 820         | 484.0          | 0.800     | 373.8    | Well             | Vegetated | Covered      | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 48                             | 8202           | 8/18/2008 | ND    | ND          | 57.2 F (14.0 C)   | 1306        | 836.0          | 3.600     | 361.1    | Well             | Vegetated | Soil         | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 49                             | 8203           | 8/18/2008 | POS   | ND          | 57.6 F (14.2 C)   | 1495        | 1001.          | 3.100     | 487.8    | Well             | Vegetated | Soil         | PVC         | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 50                             | 8204           | 8/18/2008 | ND    | ND          | 55.9 F (13.3 C)   | 1585        | 1038.          | 3.300     | 521.7    | Well             | Gravel    | Gravel       | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 51                             | 8279           | 10/7/2008 | POS   | POS         | 41.7 F (5.4 C)    | 500         | 314.0          | 0.200     | 272.6    | Stream           | Vegetated | Natural      | Earth       | Open       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 52                             | 8280           | 10/7/2008 | ND    | ND          | 54.5 F (12.5 C)   | 1961        | 1377.          | 1.700     | 1136.    | Well             | Vegetated | Concrete Pad | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 53                             | 8281           | 10/7/2008 | ND    | ND          | 63.1 F (17.3 C)   | 1141        | 719.0          | 37.80     | 8.800    | Well             | Vegetated | Gravel       | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 54                             | 8295           | 10/7/2008 | ND    | ND          | 49.5 F (9.7 C)    | 663         | 369.0          | 0.200     | 366.5    | Well             | Vegetated | Soil         | Steel       | Sealed     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                |           | 19    | 7           | ND - Not Detected |             |                |           |          |                  |           |              |             |            |                                     |                                     |                          |                          |                                     |                          |                          |

**Irrigation:**

| Irrigation Standards |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|----------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                      | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                    | 8030      | 5/30/2008   | ND         | 0.3848       | ND         | 37.6054    | 18.3421    | ND         | ND          | 0.0025     | 0.0176     | ND        | ND         | 467.2150     | 4.3185    | 0.0391     | 37.5039    |
| 2                    | 8046      | 6/19/2008   | ND         | 0.0722       | ND         | 38.5734    | 124.5354   | ND         | ND          | 0.0010     | 0.0372     | ND        | ND         | 277.5490     | 2.6730    | 0.0266     | 39.7147    |
| 3                    | 8047      | 6/19/2008   | ND         | 0.0472       | ND         | 44.4408    | 132.6169   | ND         | ND          | 0.0011     | 0.0242     | ND        | ND         | 309.6060     | 2.5784    | 0.0269     | 44.6251    |
| 4                    | 8048      | 6/19/2008   | ND         | 0.0853       | ND         | 69.7332    | 128.7230   | ND         | ND          | 0.0019     | 0.0205     | ND        | ND         | 387.7920     | 4.9425    | 0.0383     | 71.5466    |
| 5                    | 8049      | 6/19/2008   | ND         | 0.0363       | ND         | 43.5182    | 133.8039   | ND         | ND          | 0.0016     | 0.0109     | ND        | ND         | 304.5750     | 2.6472    | 0.0212     | 40.4261    |
| 6                    | 8050      | 6/19/2008   | ND         | 0.6246       | ND         | 87.9032    | 263.6573   | ND         | ND          | 0.0021     | 0.0128     | ND        | ND         | 532.2570     | 5.3921    | 0.0615     | 85.6622    |
| 7                    | 8051      | 6/19/2008   | ND         | 0.2597       | ND         | 41.0297    | 129.4654   | ND         | ND          | 0.0017     | 0.0086     | ND        | ND         | 236.9480     | 3.0273    | 0.0458     | 45.1654    |
| 8                    | 8052      | 6/19/2008   | ND         | 0.8133       | ND         | 78.0216    | 790.6384   | ND         | ND          | 0.0019     | 0.0300     | ND        | ND         | 715.3860     | 4.9198    | 0.1027     | 98.9188    |
| 9                    | 8053      | 6/19/2008   | ND         | 0.7435       | ND         | 99.9701    | 817.5394   | ND         | ND          | 0.0038     | 0.0059     | ND        | ND         | 720.2060     | 3.9935    | 0.0965     | 103.3391   |
| 10                   | 8054      | 6/19/2008   | ND         | 0.2741       | ND         | 23.4978    | 53.8561    | ND         | ND          | 0.0010     | 0.0077     | ND        | ND         | 262.1840     | 3.0267    | 0.0282     | 25.2200    |
| 11                   | 8055      | 6/19/2008   | ND         | 0.8040       | ND         | 56.5603    | 606.8588   | ND         | ND          | 0.0025     | 0.0195     | ND        | ND         | 691.4630     | 3.7686    | 0.0536     | 46.4389    |
| 12                   | 8056      | 6/19/2008   | ND         | 1.1620       | ND         | 41.1827    | 59.1466    | ND         | ND          | 0.0016     | 0.0093     | ND        | ND         | 388.9140     | 4.2145    | 0.0349     | 25.3460    |
| 13                   | 8057      | 6/19/2008   | ND         | 0.5441       | ND         | 49.6503    | 71.8187    | ND         | ND          | 0.0010     | 0.0079     | ND        | ND         | 225.6300     | 3.4710    | 0.0329     | 39.9897    |
| 14                   | 8058      | 6/19/2008   | ND         | 0.5927       | ND         | 107.4278   | 412.9563   | ND         | ND          | 0.0019     | 0.0341     | ND        | ND         | 594.5560     | 4.4384    | 0.0781     | 80.8710    |
| 15                   | 8059      | 6/19/2008   | ND         | 0.8223       | ND         | 65.3870    | 286.8074   | ND         | ND          | 0.0033     | 0.0121     | ND        | ND         | 739.0470     | 3.5354    | 0.0746     | 66.3291    |
| 16                   | 8060      | 6/19/2008   | ND         | 0.4336       | ND         | 216.7818   | 629.2493   | ND         | ND          | 0.0011     | 0.0205     | ND        | ND         | 673.3270     | 6.6364    | 0.1438     | 157.0318   |
| 17                   | 8061      | 6/19/2008   | ND         | 0.4476       | ND         | 118.5563   | 1179.3470  | ND         | ND          | 0.0009     | 0.0104     | ND        | ND         | 543.3130     | 5.7029    | 0.1036     | 112.4255   |
| 18                   | 8062      | 6/19/2008   | ND         | 0.4354       | ND         | 120.4829   | 312.2927   | ND         | ND          | 0.0008     | 0.0103     | ND        | ND         | 580.7960     | 4.2522    | 0.0890     | 99.6664    |
| 19                   | 8063      | 6/19/2008   | ND         | 0.0431       | ND         | 62.1050    | 336.8778   | ND         | ND          | 0.0007     | 0.0117     | ND        | ND         | 420.3420     | 1.2527    | 0.0317     | 37.4498    |
| 20                   | 8064      | 6/19/2008   | ND         | 0.2222       | ND         | 51.8248    | 55.2549    | ND         | ND          | 0.0007     | 0.0083     | ND        | ND         | 460.7880     | 1.9371    | 0.0621     | 48.1857    |
| 21                   | 8065      | 6/19/2008   | ND         | 0.2117       | ND         | 0.5682     | 47.8041    | ND         | ND          | 0.0008     | 0.0164     | ND        | ND         | 509.8320     | 1.8193    | 0.0917     | 0.9269     |
| 22                   | 8066      | 6/19/2008   | ND         | 0.2956       | ND         | 51.0191    | 75.7312    | ND         | ND          | 0.0006     | 0.0588     | ND        | ND         | 470.0140     | 1.7221    | 0.0951     | 89.9455    |
| 23                   | 8067      | 6/19/2008   | ND         | 0.1853       | ND         | 61.3579    | 56.8259    | ND         | ND          | 0.0006     | 0.0531     | ND        | ND         | 462.3440     | 2.1510    | 0.0682     | 69.8783    |
| 24                   | 8091      | 7/8/2008    | ND         | 0.0116       | ND         | 47.0042    | ND         | ND         | 33.7324     | ND         | 0.0126     | ND        | ND         | 235.7880     | 1.2428    | ND         | 15.4645    |
| 25                   | 8092      | 7/8/2008    | ND         | 0.0117       | ND         | 63.5845    | ND         | ND         | ND          | 0.0008     | 0.0081     | ND        | ND         | 378.6910     | 1.0792    | 0.0073     | 36.1848    |
| 26                   | 8093      | 7/8/2008    | ND         | 0.0083       | ND         | 56.2368    | ND         | ND         | ND          | 0.0006     | 0.0127     | ND        | ND         | 273.2420     | 0.5769    | ND         | 17.4435    |
| 27                   | 8094      | 7/8/2008    | ND         | 0.0304       | ND         | 64.5655    | 44.8691    | ND         | ND          | 0.0009     | 0.0144     | ND        | ND         | 465.2470     | 1.4126    | 0.0352     | 63.0923    |
| 28                   | 8095      | 7/8/2008    | ND         | 0.0086       | ND         | 56.6945    | ND         | ND         | ND          | ND         | 0.0090     | ND        | ND         | 276.0290     | 0.5604    | ND         | 17.4666    |
| 29                   | 8096      | 7/8/2008    | ND         | 0.0112       | ND         | 63.9480    | ND         | ND         | ND          | 0.0006     | 0.0095     | ND        | ND         | 347.0000     | 0.8239    | 0.0043     | 28.9046    |
| 30                   | 8097      | 7/8/2008    | ND         | 0.0339       | ND         | 70.2607    | 14.4628    | ND         | ND          | 0.0007     | 0.0135     | ND        | ND         | 454.5300     | 0.8666    | 0.0222     | 45.6132    |
| 31                   | 8098      | 7/8/2008    | ND         | 0.0084       | ND         | 55.7761    | ND         | ND         | ND          | 0.0005     | 0.0033     | ND        | ND         | 275.3980     | 0.5235    | ND         | 17.6284    |
| 32                   | 8099      | 7/8/2008    | ND         | 0.0281       | ND         | 57.7984    | ND         | ND         | ND          | 0.0006     | 0.0125     | ND        | ND         | 345.9710     | 1.1057    | 0.0088     | 34.2112    |
| 33                   | 8100      | 7/8/2008    | ND         | 0.1117       | ND         | 38.6892    | ND         | ND         | ND          | 0.0006     | 0.0354     | ND        | ND         | 324.8090     | 2.1196    | 0.0456     | 33.3056    |
| 34                   | 8101      | 7/8/2008    | ND         | 0.9837       | ND         | 124.5844   | 237.7241   | ND         | ND          | ND         | 0.0104     | ND        | ND         | 288.9220     | 7.3063    | 0.5111     | 74.4494    |
| 35                   | 8102      | 7/8/2008    | ND         | 0.0407       | ND         | 64.8986    | ND         | ND         | ND          | 0.0006     | 0.0091     | ND        | ND         | 340.6480     | 1.5960    | 0.0151     | 27.5964    |
| 36                   | 8103      | 7/8/2008    | ND         | 0.0274       | ND         | 67.1035    | ND         | ND         | ND          | 0.0005     | 0.0066     | ND        | ND         | 340.9530     | 1.0057    | 0.0079     | 24.1796    |



| Irrigation Standards Continues |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|--------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                              | 8030      | 5/30/2008   | 0.0051     | 0.0024     | 88.3695    | ND         | ND         | ND          | 2.4000       | ND         | 506.0000    | 0.0049    | 0.0125     |
| 2                              | 8046      | 6/19/2008   | 0.0007     | 0.0020     | 63.6566    | ND         | ND         | ND          | 1.7000       | ND         | 462.0000    | ND        | 0.0295     |
| 3                              | 8047      | 6/19/2008   | 0.0004     | 0.0012     | 78.7275    | ND         | ND         | ND          | 2.0000       | ND         | 528.0000    | ND        | 0.0168     |
| 4                              | 8048      | 6/19/2008   | 0.0006     | ND         | 111.7726   | 0.0007     | ND         | ND          | 2.2000       | ND         | 736.0000    | 0.0019    | 0.0076     |
| 5                              | 8049      | 6/19/2008   | ND         | 0.0009     | 77.2840    | ND         | ND         | ND          | 2.0000       | ND         | 523.0000    | 0.0021    | 0.0164     |
| 6                              | 8050      | 6/19/2008   | 0.0011     | 0.0009     | 260.9679   | 0.0008     | ND         | ND          | 4.7000       | 0.0127     | 1422.0000   | 0.0062    | 0.0236     |
| 7                              | 8051      | 6/19/2008   | 0.0005     | 0.0016     | 57.9853    | 0.0007     | ND         | ND          | 1.5000       | ND         | 530.0000    | 0.0069    | 0.0158     |
| 8                              | 8052      | 6/19/2008   | 0.0010     | 0.0078     | 316.3477   | 0.0008     | ND         | ND          | 5.6000       | ND         | 2576.0000   | 0.0032    | 0.0186     |
| 9                              | 8053      | 6/19/2008   | 0.0004     | 0.0052     | 318.0468   | 0.0008     | ND         | ND          | 5.3000       | 0.0046     | 2639.0000   | 0.0047    | ND         |
| 10                             | 8054      | 6/19/2008   | 0.0004     | 0.0032     | 70.0338    | ND         | ND         | ND          | 2.4000       | ND         | 417.0000    | 0.0089    | 0.0469     |
| 11                             | 8055      | 6/19/2008   | 0.0004     | 0.0014     | 488.8956   | ND         | ND         | ND          | 11.7000      | 0.0115     | 2390.0000   | 0.0077    | 0.0090     |
| 12                             | 8056      | 6/19/2008   | 0.0005     | 0.0023     | 191.7593   | ND         | ND         | ND          | 5.8000       | ND         | 709.0000    | 0.0053    | 0.0676     |
| 13                             | 8057      | 6/19/2008   | 0.0050     | 0.0023     | 111.1284   | ND         | ND         | ND          | 2.8000       | ND         | 561.0000    | 0.0060    | 0.1239     |
| 14                             | 8058      | 6/19/2008   | 0.0006     | 0.0013     | 368.8751   | 0.0010     | ND         | ND          | 6.5000       | ND         | 1786.0000   | 0.0034    | 0.0082     |
| 15                             | 8059      | 6/19/2008   | 0.0031     | 0.0016     | 349.5855   | ND         | ND         | ND          | 7.3000       | 0.0092     | 1893.0000   | 0.0068    | 0.0085     |
| 16                             | 8060      | 6/19/2008   | 0.0015     | ND         | 606.5427   | 0.0020     | ND         | ND          | 7.7000       | ND         | 2344.0000   | ND        | 0.0071     |
| 17                             | 8061      | 6/19/2008   | ND         | 0.0007     | 220.9086   | 0.0010     | ND         | ND          | 3.5000       | ND         | 2559.0000   | ND        | 0.0042     |
| 18                             | 8062      | 6/19/2008   | ND         | 0.0005     | 217.5741   | 0.0013     | ND         | ND          | 3.5000       | ND         | 1711.0000   | ND        | 0.0176     |
| 19                             | 8063      | 6/19/2008   | 0.0007     | 0.0044     | 25.8378    | ND         | ND         | ND          | 0.6000       | ND         | 1280.0000   | ND        | 0.0471     |
| 20                             | 8064      | 6/19/2008   | 0.0042     | 0.0012     | 86.2534    | ND         | ND         | ND          | 2.1000       | ND         | 606.0000    | ND        | 0.2372     |
| 21                             | 8065      | 6/19/2008   | ND         | 0.0011     | 255.5765   | ND         | ND         | ND          | 48.6000      | ND         | 674.0000    | 0.0019    | 0.0089     |
| 22                             | 8066      | 6/19/2008   | 0.0012     | 0.0022     | 51.0140    | ND         | ND         | ND          | 1.0000       | 0.0051     | 636.0000    | 0.0022    | 0.3613     |
| 23                             | 8067      | 6/19/2008   | 0.0014     | 0.0017     | 72.0347    | 0.0014     | ND         | ND          | 1.5000       | ND         | 619.0000    | ND        | 0.0448     |
| 24                             | 8091      | 7/8/2008    | 0.0012     | ND         | 1.8805     | ND         | ND         | ND          | 0.1000       | ND         | 228.0000    | ND        | 0.0043     |
| 25                             | 8092      | 7/8/2008    | ND         | ND         | 3.0075     | ND         | ND         | ND          | 0.1000       | ND         | 315.0000    | ND        | 0.0038     |
| 26                             | 8093      | 7/8/2008    | 0.0013     | ND         | 1.8061     | ND         | ND         | ND          | 0.1000       | ND         | 225.0000    | ND        | 0.0040     |
| 27                             | 8094      | 7/8/2008    | 0.0004     | ND         | 23.3939    | ND         | ND         | ND          | 0.5000       | ND         | 467.0000    | ND        | 0.0047     |
| 28                             | 8095      | 7/8/2008    | 0.0016     | ND         | 2.3451     | ND         | ND         | ND          | 0.1000       | ND         | 228.0000    | ND        | ND         |
| 29                             | 8096      | 7/8/2008    | ND         | ND         | 3.0880     | ND         | ND         | ND          | 0.1000       | ND         | 291.0000    | ND        | 0.0025     |
| 30                             | 8097      | 7/8/2008    | 0.0026     | 0.0005     | 20.0027    | ND         | ND         | ND          | 0.5000       | ND         | 405.0000    | ND        | 0.0030     |
| 31                             | 8098      | 7/8/2008    | 0.0015     | ND         | 2.0640     | ND         | ND         | ND          | 0.1000       | ND         | 227.0000    | ND        | ND         |
| 32                             | 8099      | 7/8/2008    | ND         | ND         | 11.2368    | ND         | ND         | ND          | 0.3000       | ND         | 311.0000    | ND        | 0.0052     |
| 33                             | 8100      | 7/8/2008    | 0.0014     | 0.0007     | 17.6622    | ND         | ND         | ND          | 0.5000       | ND         | 290.0000    | ND        | 0.1926     |
| 34                             | 8101      | 7/8/2008    | 0.0230     | 0.0051     | 256.3705   | 0.0010     | ND         | ND          | 4.5000       | 0.0353     | 1472.0000   | ND        | 0.0129     |
| 35                             | 8102      | 7/8/2008    | 0.0008     | 0.0008     | 13.1087    | ND         | ND         | ND          | 0.3000       | ND         | 331.0000    | ND        | 0.0062     |
| 36                             | 8103      | 7/8/2008    | ND         | ND         | 13.8589    | ND         | ND         | ND          | 0.4000       | ND         | 313.0000    | ND        | 0.0167     |

| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 37                                | 8104      | 7/8/2008    | ND         | 0.0603       | ND         | 66.2903    | 13.3670    | ND         | ND          | 0.0006     | 0.0067     | ND        | ND         | 413.0980     | 3.4324    | 0.0146     | 41.2424    |
| 38                                | 8105      | 7/8/2008    | ND         | 0.0549       | ND         | 62.2997    | ND         | ND         | ND          | 0.0005     | 0.0122     | ND        | 0.0193     | 390.1590     | 4.0349    | 0.0144     | 38.7615    |
| 39                                | 8106      | 7/8/2008    | ND         | 0.0432       | ND         | 49.0759    | ND         | ND         | ND          | 0.0006     | 0.0063     | ND        | ND         | 333.2380     | 1.5773    | 0.0111     | 33.0976    |
| 40                                | 8107      | 7/8/2008    | ND         | 0.3056       | ND         | 28.6139    | 80.8920    | ND         | ND          | 0.0008     | 0.0173     | ND        | ND         | 580.2770     | 4.3361    | 0.0682     | 11.3592    |
| 41                                | 8108      | 7/8/2008    | ND         | 0.0409       | ND         | 59.2354    | ND         | ND         | ND          | ND         | 0.0105     | ND        | ND         | 341.0960     | 1.8524    | 0.0303     | 43.5930    |
| 42                                | 8196      | 8/25/2008   | ND         | 0.0566       | ND         | 237.4724   | 180.6494   | 0.0007     | ND          | 0.0078     | 0.0178     | ND        | 2.7601     | 619.0690     | 10.8533   | 0.0315     | 60.8584    |
| 43                                | 8197      | 8/25/2008   | ND         | 0.2507       | ND         | 1.0380     | 61.2034    | ND         | 112.8240    | 0.0015     | 0.0159     | ND        | ND         | 459.8390     | 0.8527    | 0.0976     | 0.6158     |
| 44                                | 8198      | 8/25/2008   | ND         | 1.4830       | ND         | 1.0856     | 137.5000   | ND         | 101.0770    | 0.0015     | 0.0119     | 3.7719    | 0.0215     | 426.1080     | 0.9009    | 0.1088     | 0.5892     |
| 45                                | 8199      | 8/25/2008   | ND         | 0.3671       | ND         | 1.7525     | 97.8561    | ND         | 60.7473     | 0.0023     | 0.0039     | ND        | 0.0145     | 552.1900     | 1.1436    | 0.1289     | 1.4643     |
| 46                                | 8200      | 8/25/2008   | ND         | 0.1579       | ND         | 10.0573    | 269.1229   | ND         | ND          | 0.0012     | 0.0113     | ND        | ND         | 278.7960     | 1.2284    | 0.1220     | 9.9424     |
| 47                                | 8201      | 8/25/2008   | ND         | 0.1061       | ND         | 53.9325    | 105.7968   | 0.0003     | ND          | 0.0011     | 0.0263     | ND        | ND         | 338.7880     | 2.6036    | 0.0520     | 57.9908    |
| 48                                | 8202      | 8/25/2008   | ND         | 0.1899       | ND         | 49.3916    | 206.2971   | 0.0003     | ND          | 0.1101     | 0.0885     | ND        | ND         | 504.7900     | 2.7002    | 0.0859     | 57.6797    |
| 49                                | 8203      | 8/25/2008   | ND         | 0.1566       | ND         | 78.8764    | 244.7388   | ND         | ND          | 0.0017     | 0.0073     | ND        | ND         | 409.1990     | 2.0337    | 0.0741     | 70.5309    |
| 50                                | 8204      | 8/25/2008   | ND         | 0.2748       | ND         | 93.5413    | 282.4121   | 0.0022     | ND          | 0.0018     | 0.0557     | ND        | 0.0113     | 504.3880     | 1.6439    | 0.0487     | 69.8776    |
| 51                                | 8279      | 10/9/2008   | ND         | 0.0227       | ND         | 62.5494    | ND         | ND         | 19.1899     | 0.0007     | 0.0071     | ND        | ND         | 310.1750     | 1.3405    | 0.0080     | 28.2105    |
| 52                                | 8280      | 10/9/2008   | ND         | 0.3922       | ND         | 160.8960   | 87.1312    | ND         | ND          | 0.0006     | 0.0272     | ND        | ND         | 420.9680     | 5.7156    | 0.1259     | 178.1105   |
| 53                                | 8281      | 10/9/2008   | ND         | 0.6721       | ND         | 1.3378     | 27.6442    | ND         | 63.5657     | 0.0008     | 0.0184     | ND        | ND         | 522.6840     | 1.7637    | 0.0665     | 1.3196     |
| 54                                | 8295      | 10/9/2008   | ND         | 0.0231       | ND         | 68.3069    | 29.5609    | ND         | ND          | ND         | 0.0164     | ND        | ND         | 370.1130     | 1.2104    | 0.0098     | 47.5108    |
| Test Count that Exceeded Standard |           |             | 0          | 11           | 0          | 0          | 28         | 0          | 0           | 0          | 0          | 1         | 0          | 54           | 0         | 0          | 0          |

ND - Not Detected



| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 37                                 | 8104      | 7/8/2008    | 0.0004     | 0.0007     | 18.4534    | ND         | ND         | ND          | 0.4000       | ND         | 394.0000    | ND        | 0.0139     |
| 38                                 | 8105      | 7/8/2008    | 0.0003     | 0.0007     | 16.9039    | ND         | ND         | ND          | 0.4000       | ND         | 368.0000    | ND        | 0.0049     |
| 39                                 | 8106      | 7/8/2008    | ND         | ND         | 13.1214    | ND         | ND         | ND          | 0.4000       | ND         | 302.0000    | ND        | 0.0041     |
| 40                                 | 8107      | 7/8/2008    | 0.0041     | 0.0096     | 272.4279   | 0.0009     | ND         | ND          | 10.9000      | ND         | 847.0000    | 0.0143    | 0.0125     |
| 41                                 | 8108      | 7/8/2008    | 0.0015     | 0.0016     | 17.7704    | ND         | ND         | ND          | 0.4000       | ND         | 385.0000    | ND        | 0.0784     |
| 42                                 | 8196      | 8/25/2008   | 0.0971     | 0.0037     | 37.6963    | 0.0213     | ND         | ND          | 0.6000       | ND         | 1097.0000   | ND        | 1.7700     |
| 43                                 | 8197      | 8/25/2008   | 0.0004     | 0.0021     | 249.7130   | ND         | ND         | ND          | 48.0000      | ND         | 734.0000    | 0.0021    | 0.0076     |
| 44                                 | 8198      | 8/25/2008   | 0.0046     | 0.0032     | 287.4231   | ND         | ND         | ND          | 55.2000      | 0.0090     | 838.0000    | ND        | 0.0099     |
| 45                                 | 8199      | 8/25/2008   | 0.0004     | 0.0036     | 290.0726   | ND         | ND         | ND          | 39.1000      | ND         | 850.0000    | ND        | 0.0274     |
| 46                                 | 8200      | 8/25/2008   | 0.0016     | 0.0013     | 261.1703   | 0.0009     | ND         | ND          | 14.0000      | ND         | 819.0000    | ND        | 0.0034     |
| 47                                 | 8201      | 8/25/2008   | 0.0018     | 0.0101     | 34.9838    | 0.0013     | ND         | ND          | 0.8000       | ND         | 484.0000    | ND        | 0.0149     |
| 48                                 | 8202      | 8/25/2008   | ND         | 0.0027     | 156.6139   | 0.0614     | 0.0017     | ND          | 3.6000       | ND         | 836.0000    | ND        | 0.5129     |
| 49                                 | 8203      | 8/25/2008   | 0.0011     | 0.0025     | 157.6077   | 0.0016     | ND         | ND          | 3.1000       | 0.0062     | 1001.0000   | 0.0027    | 0.0090     |
| 50                                 | 8204      | 8/25/2008   | 0.0023     | 0.0013     | 174.2635   | 0.0072     | ND         | ND          | 3.3000       | 0.0064     | 1038.0000   | 0.0052    | 0.0383     |
| 51                                 | 8279      | 10/9/2008   | 0.0022     | ND         | 9.4171     | ND         | ND         | ND          | 0.2000       | ND         | 314.0000    | ND        | 0.0031     |
| 52                                 | 8280      | 10/9/2008   | 0.0009     | 0.0013     | 134.1030   | 0.0012     | ND         | ND          | 1.7000       | 0.0128     | 1377.0000   | 0.0032    | 0.0862     |
| 53                                 | 8281      | 10/9/2008   | 0.0008     | 0.0183     | 257.6685   | ND         | ND         | ND          | 37.8000      | ND         | 719.0000    | ND        | 0.0099     |
| 54                                 | 8295      | 10/9/2008   | 0.0134     | ND         | 10.7803    | ND         | ND         | ND          | 0.2000       | ND         | 369.0000    | ND        | 0.0282     |
| Test Count that Exceeded Standard: |           |             | 0          | 2          | 30         | 0          | 0          | 0           | 21           | 1          | 54          | 0         | 0          |

ND - Not Detected

Livestock:

| Livestock Standards |      |           | 5    | 0.2    | 5      | .1   | 0.05 | 1    | 1      | .5     | 2    | 10   | 440      | .1   | 5.5-8.3 | .05    | 167;333  | 1000;3000; | 25     |
|---------------------|------|-----------|------|--------|--------|------|------|------|--------|--------|------|------|----------|------|---------|--------|----------|------------|--------|
|                     |      |           | Al   | As     | B      | Be   | Cd   | Co   | Cr     | Cu     | F    | Hg   | NO3      | Pb   | pH      | Se     | SO4      | TDS        | Zn     |
|                     |      |           | mg/L | mg/L   | mg/L   | mg/L | mg/L | mg/L | mg/L   | mg/L   | mg/L | ug/L | mg/L     | mg/L | -       | mg/L   | mg/L     | mg/L       | mg/L   |
| 1                   | 8030 | 5/30/2008 | ND   | 0.0034 | 0.3848 | ND   | ND   | ND   | 0.0025 | 0.0176 | ND   | ND   | ND       | ND   | 7.9600  | ND     | 65.2315  | 506.0000   | 0.0125 |
| 2                   | 8046 | 6/19/2008 | ND   | ND     | 0.0722 | ND   | ND   | ND   | 0.0010 | 0.0372 | ND   | ND   | ND       | ND   | 8.0800  | ND     | 47.7472  | 462.0000   | 0.0295 |
| 3                   | 8047 | 6/19/2008 | ND   | ND     | 0.0472 | ND   | ND   | ND   | 0.0011 | 0.0242 | ND   | ND   | ND       | ND   | 7.8300  | ND     | 61.3764  | 528.0000   | 0.0168 |
| 4                   | 8048 | 6/19/2008 | ND   | 0.0018 | 0.0853 | ND   | ND   | ND   | 0.0019 | 0.0205 | ND   | ND   | 101.8721 | ND   | 7.7200  | ND     | 41.9624  | 736.0000   | 0.0076 |
| 5                   | 8049 | 6/19/2008 | ND   | ND     | 0.0363 | ND   | ND   | ND   | 0.0016 | 0.0109 | ND   | ND   | ND       | ND   | 7.8100  | ND     | 62.4929  | 523.0000   | 0.0164 |
| 6                   | 8050 | 6/19/2008 | ND   | 0.0044 | 0.6246 | ND   | ND   | ND   | 0.0021 | 0.0128 | ND   | ND   | 106.4732 | ND   | 7.6200  | 0.0127 | 334.3003 | 1422.0000  | 0.0236 |
| 7                   | 8051 | 6/19/2008 | ND   | 0.0041 | 0.2597 | ND   | ND   | ND   | 0.0017 | 0.0086 | ND   | ND   | 48.7949  | ND   | 7.8700  | ND     | 74.8805  | 530.0000   | 0.0158 |
| 8                   | 8052 | 6/19/2008 | ND   | 0.0061 | 0.8133 | ND   | ND   | ND   | 0.0019 | 0.0300 | ND   | ND   | 34.9869  | ND   | 7.6800  | ND     | 886.5471 | 2576.0000  | 0.0186 |
| 9                   | 8053 | 6/19/2008 | ND   | 0.0088 | 0.7435 | ND   | ND   | ND   | 0.0038 | 0.0059 | ND   | ND   | 32.8784  | ND   | 7.5100  | 0.0046 | 891.4473 | 2639.0000  | ND     |
| 10                  | 8054 | 6/19/2008 | ND   | 0.0054 | 0.2741 | ND   | ND   | ND   | 0.0010 | 0.0077 | ND   | ND   | 31.1841  | ND   | 8.0400  | ND     | 68.4579  | 417.0000   | 0.0469 |
| 11                  | 8055 | 6/19/2008 | ND   | 0.0070 | 0.8040 | ND   | ND   | ND   | 0.0025 | 0.0195 | ND   | ND   | 43.0370  | ND   | 7.7200  | 0.0115 | 788.4410 | 2390.0000  | 0.0090 |
| 12                  | 8056 | 6/19/2008 | ND   | 0.0049 | 1.1620 | ND   | ND   | ND   | 0.0016 | 0.0093 | ND   | ND   | 33.4355  | ND   | 7.8500  | ND     | 151.7863 | 709.0000   | 0.0676 |
| 13                  | 8057 | 6/19/2008 | ND   | 0.0035 | 0.5441 | ND   | ND   | ND   | 0.0010 | 0.0079 | ND   | ND   | 36.1226  | ND   | 7.8800  | ND     | 125.5484 | 561.0000   | 0.1239 |
| 14                  | 8058 | 6/19/2008 | ND   | 0.0127 | 0.5927 | ND   | ND   | ND   | 0.0019 | 0.0341 | ND   | ND   | 31.8781  | ND   | 7.6000  | ND     | 471.5851 | 1786.0000  | 0.0082 |
| 15                  | 8059 | 6/19/2008 | ND   | 0.0044 | 0.8223 | ND   | ND   | ND   | 0.0033 | 0.0121 | ND   | ND   | 39.3045  | ND   | 7.9500  | 0.0092 | 700.8343 | 1893.0000  | 0.0085 |
| 16                  | 8060 | 6/19/2008 | ND   | ND     | 0.4336 | ND   | ND   | ND   | 0.0011 | 0.0205 | ND   | ND   | 33.1089  | ND   | 7.4100  | ND     | 354.1307 | 2344.0000  | 0.0071 |
| 17                  | 8061 | 6/19/2008 | ND   | ND     | 0.4476 | ND   | ND   | ND   | 0.0009 | 0.0104 | ND   | ND   | 48.5430  | ND   | 7.6200  | ND     | 597.2264 | 2559.0000  | 0.0042 |
| 18                  | 8062 | 6/19/2008 | ND   | 0.0018 | 0.4354 | ND   | ND   | ND   | 0.0008 | 0.0103 | ND   | ND   | 57.2998  | ND   | 7.5900  | ND     | 605.8427 | 1711.0000  | 0.0176 |
| 19                  | 8063 | 6/19/2008 | ND   | ND     | 0.0431 | ND   | ND   | ND   | 0.0007 | 0.0117 | ND   | ND   | ND       | ND   | 7.8000  | ND     | 602.8165 | 1280.0000  | 0.0471 |
| 20                  | 8064 | 6/19/2008 | ND   | ND     | 0.2222 | ND   | ND   | ND   | 0.0007 | 0.0083 | ND   | ND   | 15.1909  | ND   | 7.9500  | ND     | 113.4082 | 606.0000   | 0.2372 |
| 21                  | 8065 | 6/19/2008 | ND   | 0.0033 | 0.2117 | ND   | ND   | ND   | 0.0008 | 0.0164 | ND   | ND   | 19.4208  | ND   | 7.9400  | ND     | 87.6385  | 674.0000   | 0.0089 |
| 22                  | 8066 | 6/19/2008 | ND   | 0.0535 | 0.2956 | ND   | ND   | ND   | 0.0006 | 0.0588 | ND   | ND   | 42.3082  | ND   | 7.9100  | 0.0051 | 81.0858  | 636.0000   | 0.3613 |
| 23                  | 8067 | 6/19/2008 | ND   | 0.0039 | 0.1853 | ND   | ND   | ND   | 0.0006 | 0.0531 | ND   | ND   | 29.9997  | ND   | 7.9500  | ND     | 91.0129  | 619.0000   | 0.0448 |
| 24                  | 8091 | 7/8/2008  | ND   | ND     | 0.0116 | ND   | ND   | ND   | ND     | 0.0126 | ND   | ND   | ND       | ND   | 8.3900  | ND     | ND       | 228.0000   | 0.0043 |
| 25                  | 8092 | 7/8/2008  | ND   | ND     | 0.0117 | ND   | ND   | ND   | 0.0008 | 0.0081 | ND   | ND   | ND       | ND   | 7.7000  | ND     | 16.1493  | 315.0000   | 0.0038 |
| 26                  | 8093 | 7/8/2008  | ND   | ND     | 0.0083 | ND   | ND   | ND   | 0.0006 | 0.0127 | ND   | ND   | ND       | ND   | 8.3000  | ND     | ND       | 225.0000   | 0.0040 |
| 27                  | 8094 | 7/8/2008  | ND   | ND     | 0.0304 | ND   | ND   | ND   | 0.0009 | 0.0144 | ND   | ND   | ND       | ND   | 7.7200  | ND     | 27.9152  | 467.0000   | 0.0047 |
| 28                  | 8095 | 7/8/2008  | ND   | ND     | 0.0086 | ND   | ND   | ND   | ND     | 0.0090 | ND   | ND   | ND       | ND   | 8.2600  | ND     | ND       | 228.0000   | ND     |
| 29                  | 8096 | 7/8/2008  | ND   | ND     | 0.0112 | ND   | ND   | ND   | 0.0006 | 0.0095 | ND   | ND   | ND       | ND   | 8.0000  | ND     | 14.7085  | 291.0000   | 0.0025 |
| 30                  | 8097 | 7/8/2008  | ND   | ND     | 0.0339 | ND   | ND   | ND   | 0.0007 | 0.0135 | ND   | ND   | ND       | ND   | 8.0400  | ND     | 19.2257  | 405.0000   | 0.0030 |
| 31                  | 8098 | 7/8/2008  | ND   | ND     | 0.0084 | ND   | ND   | ND   | 0.0005 | 0.0033 | ND   | ND   | ND       | ND   | 8.3600  | ND     | ND       | 227.0000   | ND     |
| 32                  | 8099 | 7/8/2008  | ND   | ND     | 0.0281 | ND   | ND   | ND   | 0.0006 | 0.0125 | ND   | ND   | ND       | ND   | 7.7900  | ND     | 14.3921  | 311.0000   | 0.0052 |
| 33                  | 8100 | 7/8/2008  | ND   | 0.0028 | 0.1117 | ND   | ND   | ND   | 0.0006 | 0.0354 | ND   | ND   | ND       | ND   | 7.9800  | ND     | 17.7286  | 290.0000   | 0.1926 |
| 34                  | 8101 | 7/8/2008  | ND   | ND     | 0.9837 | ND   | ND   | ND   | ND     | 0.0104 | ND   | ND   | 97.4770  | ND   | 7.8000  | 0.0353 | 526.4136 | 1472.0000  | 0.0129 |
| 35                  | 8102 | 7/8/2008  | ND   | ND     | 0.0407 | ND   | ND   | ND   | 0.0006 | 0.0091 | ND   | ND   | 11.6149  | ND   | 7.9100  | ND     | 23.4211  | 331.0000   | 0.0062 |
| 36                  | 8103 | 7/8/2008  | ND   | ND     | 0.0274 | ND   | ND   | ND   | 0.0005 | 0.0066 | ND   | ND   | ND       | ND   | 7.8700  | ND     | 25.9632  | 313.0000   | 0.0167 |

| Livestock Standards               |           |             | 5          | 0.2        | 5         | .1         | 0.05       | 1          | 1          | .5         | 2         | 10         | 440         | .1         | 5.5-8.3 | .05        | 167,333     | 1000;3000;  | 25         |
|-----------------------------------|-----------|-------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 37                                | 8104      | 7/8/2008    | ND         | ND         | 0.0603    | ND         | ND         | ND         | 0.0006     | 0.0067     | ND        | ND         | ND          | ND         | 7.8300  | ND         | 28.9260     | 394.0000    | 0.0139     |
| 38                                | 8105      | 7/8/2008    | ND         | ND         | 0.0549    | ND         | ND         | ND         | 0.0005     | 0.0122     | ND        | ND         | 13.0987     | ND         | 7.8900  | ND         | 22.5151     | 368.0000    | 0.0049     |
| 39                                | 8106      | 7/8/2008    | ND         | ND         | 0.0432    | ND         | ND         | ND         | 0.0006     | 0.0063     | ND        | ND         | ND          | ND         | 7.9800  | ND         | 21.9879     | 302.0000    | 0.0041     |
| 40                                | 8107      | 7/8/2008    | ND         | 0.0104     | 0.3056    | ND         | ND         | ND         | 0.0008     | 0.0173     | ND        | ND         | 15.8703     | ND         | 8.2000  | ND         | 136.1233    | 847.0000    | 0.0125     |
| 41                                | 8108      | 7/8/2008    | ND         | ND         | 0.0409    | ND         | ND         | ND         | ND         | 0.0105     | ND        | ND         | ND          | ND         | 7.9900  | ND         | 78.1299     | 385.0000    | 0.0784     |
| 42                                | 8196      | 8/25/2008   | ND         | 0.0039     | 0.0566    | ND         | ND         | 0.0007     | 0.0078     | 0.0178     | ND        | ND         | ND          | ND         | 7.1800  | ND         | 250.2179    | 1097.0000   | 1.7700     |
| 43                                | 8197      | 8/25/2008   | ND         | 0.0095     | 0.2507    | ND         | ND         | ND         | 0.0015     | 0.0159     | ND        | ND         | ND          | ND         | 9.1200  | ND         | 71.4885     | 734.0000    | 0.0076     |
| 44                                | 8198      | 8/25/2008   | ND         | 0.0085     | 1.4830    | ND         | ND         | ND         | 0.0015     | 0.0119     | 3.7719    | ND         | ND          | ND         | 9.0800  | 0.0090     | 94.4612     | 838.0000    | 0.0099     |
| 45                                | 8199      | 8/25/2008   | ND         | ND         | 0.3671    | ND         | ND         | ND         | 0.0023     | 0.0039     | ND        | ND         | ND          | ND         | 8.7800  | ND         | 117.9836    | 850.0000    | 0.0274     |
| 46                                | 8200      | 8/25/2008   | ND         | ND         | 0.1579    | ND         | ND         | ND         | 0.0012     | 0.0113     | ND        | ND         | ND          | ND         | 8.3200  | ND         | 126.2227    | 819.0000    | 0.0034     |
| 47                                | 8201      | 8/25/2008   | ND         | ND         | 0.1061    | ND         | ND         | 0.0003     | 0.0011     | 0.0263     | ND        | ND         | ND          | ND         | 8.0100  | ND         | 56.5904     | 484.0000    | 0.0149     |
| 48                                | 8202      | 8/25/2008   | ND         | ND         | 0.1899    | ND         | ND         | 0.0003     | 0.1101     | 0.0885     | ND        | ND         | ND          | 0.0017     | 7.9900  | ND         | 106.3193    | 836.0000    | 0.5129     |
| 49                                | 8203      | 8/25/2008   | ND         | 0.0028     | 0.1566    | ND         | ND         | ND         | 0.0017     | 0.0073     | ND        | ND         | ND          | ND         | 7.8100  | 0.0062     | 231.3357    | 1001.0000   | 0.0090     |
| 50                                | 8204      | 8/25/2008   | ND         | 0.0080     | 0.2748    | ND         | ND         | 0.0022     | 0.0018     | 0.0557     | ND        | ND         | 23.8533     | ND         | 7.7400  | 0.0064     | 127.6762    | 1038.0000   | 0.0383     |
| 51                                | 8279      | 10/9/2008   | ND         | ND         | 0.0227    | ND         | ND         | ND         | 0.0007     | 0.0071     | ND        | ND         | ND          | ND         | 8.4300  | ND         | 25.0073     | 314.0000    | 0.0031     |
| 52                                | 8280      | 10/9/2008   | ND         | 0.0065     | 0.3922    | ND         | ND         | ND         | 0.0006     | 0.0272     | ND        | ND         | 54.2513     | ND         | 7.5500  | 0.0128     | 536.2582    | 1377.0000   | 0.0862     |
| 53                                | 8281      | 10/9/2008   | ND         | 0.0045     | 0.6721    | ND         | ND         | ND         | 0.0008     | 0.0184     | ND        | ND         | ND          | ND         | 8.8500  | ND         | 104.3221    | 719.0000    | 0.0099     |
| 54                                | 8295      | 10/9/2008   | ND         | ND         | 0.0231    | ND         | ND         | ND         | ND         | 0.0164     | ND        | ND         | ND          | ND         | 7.9100  | ND         | 21.1477     | 369.0000    | 0.0282     |
| Test Count that Exceeded Standard |           |             | 0          | 0          | 0         | 0          | 0          | 0          | 0          | 0          | 1         | 0          | 0           | 0          | 9       | 0          | 14          | 15          | 0          |
| ND - Not Detected                 |           |             |            |            |           |            |            |            |            |            |           |            |             |            |         |            |             |             |            |



## Culinary:

| Drinking Water Primary Standards |             |           | 0.01<br>As<br>mg/L | 2<br>Ba<br>mg/L | 0.004<br>Be<br>mg/L | 0.005<br>Cd<br>mg/L | 25<br>ClO4<br>ug/L | 0.1<br>Cr<br>mg/L | 1.3<br>Cu<br>mg/L | 4<br>F<br>mg/L | 2<br>Hg<br>ug/L | 10000<br>Na<br>mg/L | 1000<br>Ni<br>mg/L | 44.3<br>NO3<br>mg/L | .015<br>Pb<br>mg/L | .05<br>Se<br>mg/L | 500<br>SO4<br>mg/L | 2000<br>TDS<br>mg/L |
|----------------------------------|-------------|-----------|--------------------|-----------------|---------------------|---------------------|--------------------|-------------------|-------------------|----------------|-----------------|---------------------|--------------------|---------------------|--------------------|-------------------|--------------------|---------------------|
| Sample No                        | Tested Date |           |                    |                 |                     |                     |                    |                   |                   |                |                 |                     |                    |                     |                    |                   |                    |                     |
| 1                                | 8030        | 5/30/2008 | 0.0034             | 0.0878          | ND                  | ND                  | ND                 | 0.0025            | 0.0176            | ND             | ND              | 88.3695             | ND                 | ND                  | ND                 | ND                | 65.2315            | 506.0000            |
| 2                                | 8046        | 6/19/2008 | ND                 | 0.1030          | ND                  | ND                  | ND                 | 0.0010            | 0.0372            | ND             | ND              | 63.6566             | ND                 | ND                  | ND                 | ND                | 47.7472            | 462.0000            |
| 3                                | 8047        | 6/19/2008 | ND                 | 0.0797          | ND                  | ND                  | ND                 | 0.0011            | 0.0242            | ND             | ND              | 78.7275             | ND                 | ND                  | ND                 | ND                | 61.3764            | 528.0000            |
| 4                                | 8048        | 6/19/2008 | 0.0018             | 0.1367          | ND                  | ND                  | ND                 | 0.0019            | 0.0205            | ND             | ND              | 111.7726            | 0.0007             | 101.8721            | ND                 | ND                | 41.9624            | 736.0000            |
| 5                                | 8049        | 6/19/2008 | ND                 | 0.0882          | ND                  | ND                  | ND                 | 0.0016            | 0.0109            | ND             | ND              | 77.2840             | ND                 | ND                  | ND                 | ND                | 62.4929            | 523.0000            |
| 6                                | 8050        | 6/19/2008 | 0.0044             | 0.0352          | ND                  | ND                  | ND                 | 0.0021            | 0.0128            | ND             | ND              | 260.9679            | 0.0008             | 106.4732            | ND                 | 0.0127            | 334.3003           | 1422.0000           |
| 7                                | 8051        | 6/19/2008 | 0.0041             | 0.0495          | ND                  | ND                  | ND                 | 0.0017            | 0.0086            | ND             | ND              | 57.9853             | 0.0007             | 48.7949             | ND                 | ND                | 74.8805            | 530.0000            |
| 8                                | 8052        | 6/19/2008 | 0.0061             | 0.0252          | ND                  | ND                  | ND                 | 0.0019            | 0.0300            | ND             | ND              | 316.3477            | 0.0008             | 34.9869             | ND                 | ND                | 886.5471           | 2576.0000           |
| 9                                | 8053        | 6/19/2008 | 0.0088             | 0.0250          | ND                  | ND                  | ND                 | 0.0038            | 0.0059            | ND             | ND              | 318.0468            | 0.0008             | 32.8784             | ND                 | 0.0046            | 891.4473           | 2639.0000           |
| 10                               | 8054        | 6/19/2008 | 0.0054             | 0.0398          | ND                  | ND                  | ND                 | 0.0010            | 0.0077            | ND             | ND              | 70.0338             | ND                 | 31.1841             | ND                 | ND                | 68.4579            | 417.0000            |
| 11                               | 8055        | 6/19/2008 | 0.0070             | 0.0223          | ND                  | ND                  | ND                 | 0.0025            | 0.0195            | ND             | ND              | 488.8956            | ND                 | 43.0370             | ND                 | 0.0115            | 788.4410           | 2390.0000           |
| 12                               | 8056        | 6/19/2008 | 0.0049             | 0.0128          | ND                  | ND                  | ND                 | 0.0016            | 0.0093            | ND             | ND              | 191.7593            | ND                 | 33.4355             | ND                 | ND                | 151.7863           | 709.0000            |
| 13                               | 8057        | 6/19/2008 | 0.0035             | 0.0169          | ND                  | ND                  | ND                 | 0.0010            | 0.0079            | ND             | ND              | 111.1284            | ND                 | 36.1226             | ND                 | ND                | 125.5484           | 561.0000            |
| 14                               | 8058        | 6/19/2008 | 0.0127             | 0.0216          | ND                  | ND                  | ND                 | 0.0019            | 0.0341            | ND             | ND              | 368.8751            | 0.0010             | 31.8781             | ND                 | ND                | 471.5851           | 1786.0000           |
| 15                               | 8059        | 6/19/2008 | 0.0044             | 0.0236          | ND                  | ND                  | ND                 | 0.0033            | 0.0121            | ND             | ND              | 349.5855            | ND                 | 39.3045             | ND                 | 0.0092            | 700.8343           | 1893.0000           |
| 16                               | 8060        | 6/19/2008 | ND                 | 0.0360          | ND                  | ND                  | ND                 | 0.0011            | 0.0205            | ND             | ND              | 606.5427            | 0.0020             | 33.1089             | ND                 | ND                | 354.1307           | 2344.0000           |
| 17                               | 8061        | 6/19/2008 | ND                 | 0.0228          | ND                  | ND                  | ND                 | 0.0009            | 0.0104            | ND             | ND              | 220.9086            | 0.0010             | 48.5430             | ND                 | ND                | 597.2264           | 2559.0000           |
| 18                               | 8062        | 6/19/2008 | 0.0018             | 0.0210          | ND                  | ND                  | ND                 | 0.0008            | 0.0103            | ND             | ND              | 217.5741            | 0.0013             | 57.2998             | ND                 | ND                | 605.8427           | 1711.0000           |
| 19                               | 8063        | 6/19/2008 | ND                 | 0.1436          | ND                  | ND                  | ND                 | 0.0007            | 0.0117            | ND             | ND              | 25.8378             | ND                 | ND                  | ND                 | ND                | 602.8165           | 1280.0000           |
| 20                               | 8064        | 6/19/2008 | ND                 | 0.0353          | ND                  | ND                  | ND                 | 0.0007            | 0.0083            | ND             | ND              | 86.2534             | ND                 | 15.1909             | ND                 | ND                | 113.4082           | 606.0000            |
| 21                               | 8065        | 6/19/2008 | 0.0033             | ND              | ND                  | ND                  | ND                 | 0.0008            | 0.0164            | ND             | ND              | 255.5765            | ND                 | 19.4208             | ND                 | ND                | 87.6385            | 674.0000            |
| 22                               | 8066        | 6/19/2008 | 0.0535             | 0.1228          | ND                  | ND                  | ND                 | 0.0006            | 0.0588            | ND             | ND              | 51.0140             | ND                 | 42.3082             | ND                 | 0.0051            | 81.0858            | 636.0000            |
| 23                               | 8067        | 6/19/2008 | 0.0039             | 0.0471          | ND                  | ND                  | ND                 | 0.0006            | 0.0531            | ND             | ND              | 72.0347             | 0.0014             | 29.9997             | ND                 | ND                | 91.0129            | 619.0000            |
| 24                               | 8091        | 7/8/2008  | ND                 | 0.0631          | ND                  | ND                  | ND                 | ND                | 0.0126            | ND             | ND              | 1.8805              | ND                 | ND                  | ND                 | ND                | ND                 | 228.0000            |
| 25                               | 8092        | 7/8/2008  | ND                 | 0.1670          | ND                  | ND                  | ND                 | 0.0008            | 0.0081            | ND             | ND              | 3.0075              | ND                 | ND                  | ND                 | ND                | 16.1493            | 315.0000            |
| 26                               | 8093        | 7/8/2008  | ND                 | 0.0805          | ND                  | ND                  | ND                 | 0.0006            | 0.0127            | ND             | ND              | 1.8061              | ND                 | ND                  | ND                 | ND                | ND                 | 225.0000            |
| 27                               | 8094        | 7/8/2008  | ND                 | 0.3379          | ND                  | ND                  | ND                 | 0.0009            | 0.0144            | ND             | ND              | 23.3939             | ND                 | ND                  | ND                 | ND                | 27.9152            | 467.0000            |
| 28                               | 8095        | 7/8/2008  | ND                 | 0.0776          | ND                  | ND                  | ND                 | ND                | 0.0090            | ND             | ND              | 2.3451              | ND                 | ND                  | ND                 | ND                | ND                 | 228.0000            |
| 29                               | 8096        | 7/8/2008  | ND                 | 0.1128          | ND                  | ND                  | ND                 | 0.0006            | 0.0095            | ND             | ND              | 3.0880              | ND                 | ND                  | ND                 | ND                | 14.7085            | 291.0000            |
| 30                               | 8097        | 7/8/2008  | ND                 | 0.1203          | ND                  | ND                  | ND                 | 0.0007            | 0.0135            | ND             | ND              | 20.0027             | ND                 | ND                  | ND                 | ND                | 19.2257            | 405.0000            |
| 31                               | 8098        | 7/8/2008  | ND                 | 0.0764          | ND                  | ND                  | ND                 | 0.0005            | 0.0033            | ND             | ND              | 2.0640              | ND                 | ND                  | ND                 | ND                | ND                 | 227.0000            |
| 32                               | 8099        | 7/8/2008  | ND                 | 0.1505          | ND                  | ND                  | ND                 | 0.0006            | 0.0125            | ND             | ND              | 11.2368             | ND                 | ND                  | ND                 | ND                | 14.3921            | 311.0000            |
| 33                               | 8100        | 7/8/2008  | 0.0028             | 0.2045          | ND                  | ND                  | ND                 | 0.0006            | 0.0354            | ND             | ND              | 17.6622             | ND                 | ND                  | ND                 | ND                | 17.7286            | 290.0000            |
| 34                               | 8101        | 7/8/2008  | ND                 | 0.0102          | ND                  | ND                  | ND                 | ND                | 0.0104            | ND             | ND              | 256.3705            | 0.0010             | 97.4770             | ND                 | 0.0353            | 526.4136           | 1472.0000           |
| 35                               | 8102        | 7/8/2008  | ND                 | 0.1825          | ND                  | ND                  | ND                 | 0.0006            | 0.0091            | ND             | ND              | 13.1087             | ND                 | 11.6149             | ND                 | ND                | 23.4211            | 331.0000            |
| 36                               | 8103        | 7/8/2008  | ND                 | 0.1242          | ND                  | ND                  | ND                 | 0.0005            | 0.0066            | ND             | ND              | 13.8589             | ND                 | ND                  | ND                 | ND                | 25.9632            | 313.0000            |



| Drinking Water Primary Standard:  |           |             | 0.01   | 2      | 0.004 | 0.005 | 25   | 0.1    | 1.3    | 4      | 2    | 10000    | 1000   | 44.3    | .015   | .05    | 500      | 2000      |
|-----------------------------------|-----------|-------------|--------|--------|-------|-------|------|--------|--------|--------|------|----------|--------|---------|--------|--------|----------|-----------|
|                                   |           |             | As     | Ba     | Be    | Cd    | ClO4 | Cr     | Cu     | F      | Hg   | Na       | Ni     | NO3     | Pb     | Se     | SO4      | TDS       |
|                                   | Sample No | Tested Date | mg/L   | mg/L   | mg/L  | mg/L  | ug/L | mg/L   | mg/L   | mg/L   | ug/L | mg/L     | mg/L   | mg/L    | mg/L   | mg/L   | mg/L     | mg/L      |
| 37                                | 8104      | 7/8/2008    | ND     | 0.1919 | ND    | ND    | ND   | 0.0006 | 0.0067 | ND     | ND   | 18.4534  | ND     | ND      | ND     | ND     | 28.9260  | 394.0000  |
| 38                                | 8105      | 7/8/2008    | ND     | 0.1738 | ND    | ND    | ND   | 0.0005 | 0.0122 | ND     | ND   | 16.9039  | ND     | 13.0987 | ND     | ND     | 22.5151  | 368.0000  |
| 39                                | 8106      | 7/8/2008    | ND     | 0.1859 | ND    | ND    | ND   | 0.0006 | 0.0063 | ND     | ND   | 13.1214  | ND     | ND      | ND     | ND     | 21.9879  | 302.0000  |
| 40                                | 8107      | 7/8/2008    | 0.0104 | 0.0253 | ND    | ND    | ND   | 0.0008 | 0.0173 | ND     | ND   | 272.4279 | 0.0009 | 15.8703 | ND     | ND     | 136.1233 | 847.0000  |
| 41                                | 8108      | 7/8/2008    | ND     | 0.0372 | ND    | ND    | ND   | ND     | 0.0105 | ND     | ND   | 17.7704  | ND     | ND      | ND     | ND     | 78.1299  | 385.0000  |
| 42                                | 8196      | 8/25/2008   | 0.0039 | 0.0388 | ND    | ND    | ND   | 0.0078 | 0.0178 | ND     | ND   | 37.6963  | 0.0213 | ND      | ND     | ND     | 250.2179 | 1097.0000 |
| 43                                | 8197      | 8/25/2008   | 0.0095 | 0.0215 | ND    | ND    | ND   | 0.0015 | 0.0159 | ND     | ND   | 249.7130 | ND     | ND      | ND     | ND     | 71.4885  | 734.0000  |
| 44                                | 8198      | 8/25/2008   | 0.0085 | 0.0251 | ND    | ND    | ND   | 0.0015 | 0.0119 | 3.7719 | ND   | 287.4231 | ND     | ND      | ND     | 0.0090 | 94.4612  | 838.0000  |
| 45                                | 8199      | 8/25/2008   | ND     | 0.0571 | ND    | ND    | ND   | 0.0023 | 0.0039 | ND     | ND   | 290.0726 | ND     | ND      | ND     | ND     | 117.9836 | 850.0000  |
| 46                                | 8200      | 8/25/2008   | ND     | 0.0225 | ND    | ND    | ND   | 0.0012 | 0.0113 | ND     | ND   | 261.1703 | 0.0009 | ND      | ND     | ND     | 126.2227 | 819.0000  |
| 47                                | 8201      | 8/25/2008   | ND     | 0.0800 | ND    | ND    | ND   | 0.0011 | 0.0263 | ND     | ND   | 34.9838  | 0.0013 | ND      | ND     | ND     | 56.5904  | 484.0000  |
| 48                                | 8202      | 8/25/2008   | ND     | 0.1239 | ND    | ND    | ND   | 0.1101 | 0.0885 | ND     | ND   | 156.6139 | 0.0614 | ND      | 0.0017 | ND     | 106.3193 | 836.0000  |
| 49                                | 8203      | 8/25/2008   | 0.0028 | 0.0302 | ND    | ND    | ND   | 0.0017 | 0.0073 | ND     | ND   | 157.6077 | 0.0016 | ND      | ND     | 0.0062 | 231.3357 | 1001.0000 |
| 50                                | 8204      | 8/25/2008   | 0.0080 | 0.0909 | ND    | ND    | ND   | 0.0018 | 0.0557 | ND     | ND   | 174.2635 | 0.0072 | 23.8533 | ND     | 0.0064 | 127.6762 | 1038.0000 |
| 51                                | 8279      | 10/9/2008   | ND     | 0.0698 | ND    | ND    | ND   | 0.0007 | 0.0071 | ND     | ND   | 9.4171   | ND     | ND      | ND     | ND     | 25.0073  | 314.0000  |
| 52                                | 8280      | 10/9/2008   | 0.0065 | 0.0218 | ND    | ND    | ND   | 0.0006 | 0.0272 | ND     | ND   | 134.1030 | 0.0012 | 54.2513 | ND     | 0.0128 | 536.2582 | 1377.0000 |
| 53                                | 8281      | 10/9/2008   | 0.0045 | 0.0145 | ND    | ND    | ND   | 0.0008 | 0.0184 | ND     | ND   | 257.6685 | ND     | ND      | ND     | ND     | 104.3221 | 719.0000  |
| 54                                | 8295      | 10/9/2008   | ND     | 0.1709 | ND    | ND    | ND   | ND     | 0.0164 | ND     | ND   | 10.7803  | ND     | ND      | ND     | ND     | 21.1477  | 369.0000  |
| Test Count that Exceeded Standard |           |             | 3      | 0      | 0     | 0     | 0    | 1      | 0      | 0      | 0    | 0        | 0      | 7       | 0      | 0      | 9        | 5         |

ND - Not Detected

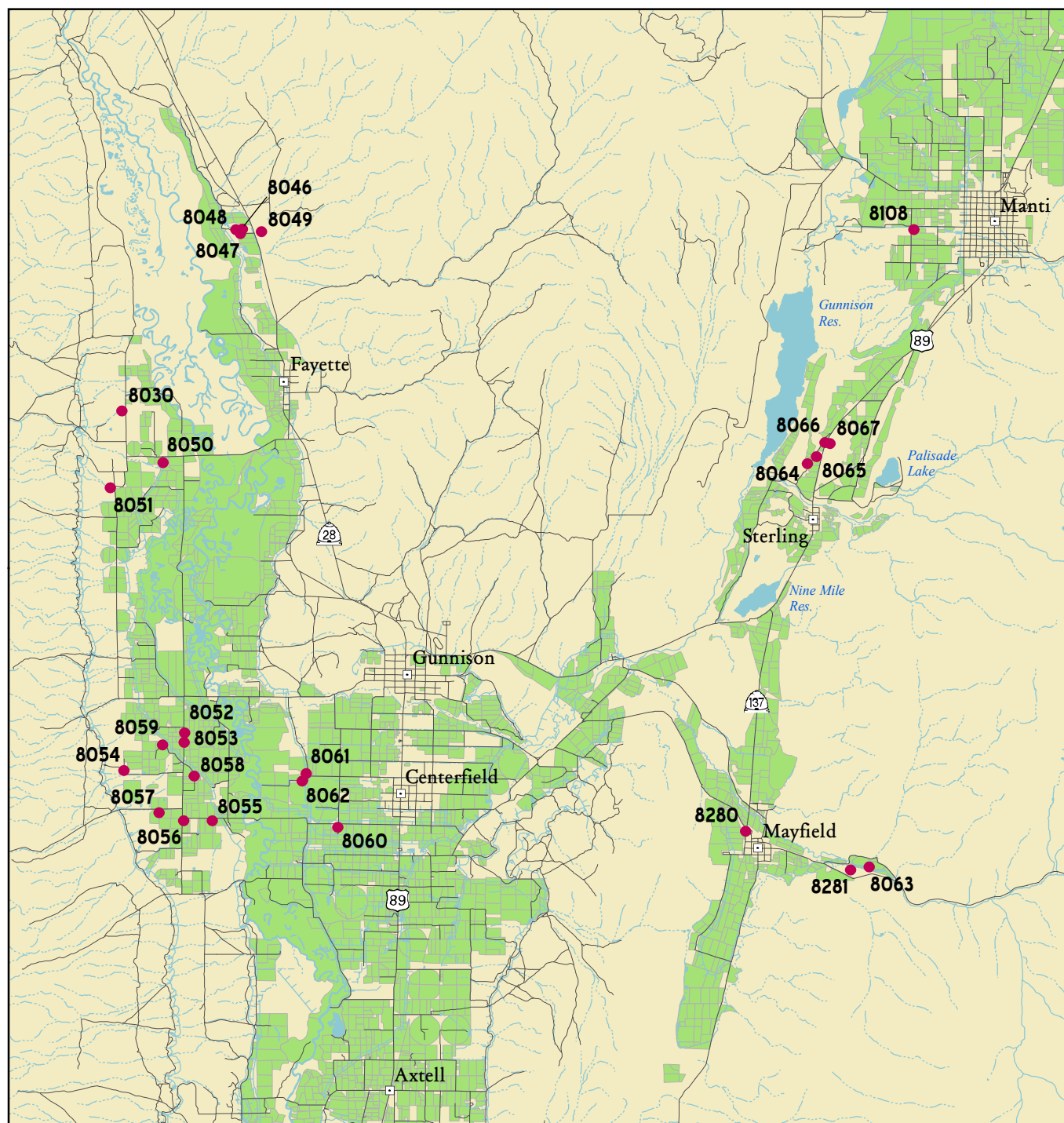
| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8030      | 5/30/2008   | ND         | ND         | 18.3421    | 0.0176     | ND        | ND         | 248.5000     | 0.0051     | 7.9600  | 17.4540    | 65.2315     | 506.0000    | 0.0125     |
| 2                                   | 8046      | 6/19/2008   | ND         | ND         | 124.5354   | 0.0372     | ND        | ND         | 260.1000     | 0.0007     | 8.0800  | 7.5590     | 47.7472     | 462.0000    | 0.0295     |
| 3                                   | 8047      | 6/19/2008   | 0.0006     | ND         | 132.6169   | 0.0242     | ND        | ND         | 295.0000     | 0.0004     | 7.8300  | 7.9793     | 61.3764     | 528.0000    | 0.0168     |
| 4                                   | 8048      | 6/19/2008   | ND         | ND         | 128.7230   | 0.0205     | ND        | ND         | 469.1000     | 0.0006     | 7.7200  | 14.2184    | 41.9624     | 736.0000    | 0.0076     |
| 5                                   | 8049      | 6/19/2008   | ND         | ND         | 133.8039   | 0.0109     | ND        | ND         | 275.4000     | ND         | 7.8100  | 9.3781     | 62.4929     | 523.0000    | 0.0164     |
| 6                                   | 8050      | 6/19/2008   | ND         | ND         | 263.6573   | 0.0128     | ND        | ND         | 572.7000     | 0.0011     | 7.6200  | 14.8628    | 334.3003    | 1422.0000   | 0.0236     |
| 7                                   | 8051      | 6/19/2008   | ND         | ND         | 129.4654   | 0.0086     | ND        | ND         | 288.7000     | 0.0005     | 7.8700  | 13.0419    | 74.8805     | 530.0000    | 0.0158     |
| 8                                   | 8052      | 6/19/2008   | ND         | ND         | 790.6384   | 0.0300     | ND        | ND         | 602.6000     | 0.0010     | 7.6800  | 11.6883    | 886.5471    | 2576.0000   | 0.0186     |
| 9                                   | 8053      | 6/19/2008   | ND         | ND         | 817.5394   | 0.0059     | ND        | ND         | 675.7000     | 0.0004     | 7.5100  | 15.6430    | 891.4473    | 2639.0000   | ND         |
| 10                                  | 8054      | 6/19/2008   | ND         | ND         | 53.8561    | 0.0077     | ND        | ND         | 162.7000     | 0.0004     | 8.0400  | 12.8016    | 68.4579     | 417.0000    | 0.0469     |
| 11                                  | 8055      | 6/19/2008   | ND         | ND         | 606.8588   | 0.0195     | ND        | ND         | 332.7000     | 0.0004     | 7.7200  | 14.6904    | 788.4410    | 2390.0000   | 0.0090     |
| 12                                  | 8056      | 6/19/2008   | ND         | ND         | 59.1466    | 0.0093     | ND        | ND         | 207.4000     | 0.0005     | 7.8500  | 10.3115    | 151.7863    | 709.0000    | 0.0676     |
| 13                                  | 8057      | 6/19/2008   | ND         | ND         | 71.8187    | 0.0079     | ND        | ND         | 288.9000     | 0.0050     | 7.8800  | 12.1197    | 125.5484    | 561.0000    | 0.1239     |
| 14                                  | 8058      | 6/19/2008   | ND         | ND         | 412.9563   | 0.0341     | ND        | ND         | 601.8000     | 0.0006     | 7.6000  | 14.0184    | 471.5851    | 1786.0000   | 0.0082     |
| 15                                  | 8059      | 6/19/2008   | ND         | ND         | 286.8074   | 0.0121     | ND        | ND         | 436.7000     | 0.0031     | 7.9500  | 15.6293    | 700.8343    | 1893.0000   | 0.0085     |
| 16                                  | 8060      | 6/19/2008   | ND         | ND         | 629.2493   | 0.0205     | ND        | ND         | 1188.9000    | 0.0015     | 7.4100  | 7.2953     | 354.1307    | 2344.0000   | 0.0071     |
| 17                                  | 8061      | 6/19/2008   | ND         | ND         | 1179.3470  | 0.0104     | ND        | ND         | 759.6000     | ND         | 7.6200  | 7.4051     | 597.2264    | 2559.0000   | 0.0042     |
| 18                                  | 8062      | 6/19/2008   | ND         | ND         | 312.2927   | 0.0103     | ND        | ND         | 711.8000     | ND         | 7.5900  | 6.7929     | 605.8427    | 1711.0000   | 0.0176     |
| 19                                  | 8063      | 6/19/2008   | ND         | ND         | 336.8778   | 0.0117     | ND        | ND         | 309.6000     | 0.0007     | 7.8000  | 4.8024     | 602.8165    | 1280.0000   | 0.0471     |
| 20                                  | 8064      | 6/19/2008   | ND         | ND         | 55.2549    | 0.0083     | ND        | ND         | 328.1000     | 0.0042     | 7.9500  | 6.2516     | 113.4082    | 606.0000    | 0.2372     |
| 21                                  | 8065      | 6/19/2008   | ND         | ND         | 47.8041    | 0.0164     | ND        | ND         | 5.2000       | ND         | 7.9400  | 8.4429     | 87.6385     | 674.0000    | 0.0089     |
| 22                                  | 8066      | 6/19/2008   | ND         | ND         | 75.7312    | 0.0588     | ND        | ND         | 498.1000     | 0.0012     | 7.9100  | 11.4923    | 81.0858     | 636.0000    | 0.3613     |
| 23                                  | 8067      | 6/19/2008   | ND         | ND         | 56.8259    | 0.0531     | ND        | ND         | 441.3000     | 0.0014     | 7.9500  | 7.6952     | 91.0129     | 619.0000    | 0.0448     |
| 24                                  | 8091      | 7/8/2008    | ND         | ND         | ND         | 0.0126     | ND        | ND         | 181.2000     | 0.0012     | 8.3900  | 1.3727     | ND          | 228.0000    | 0.0043     |
| 25                                  | 8092      | 7/8/2008    | ND         | ND         | ND         | 0.0081     | ND        | ND         | 308.0000     | ND         | 7.7000  | 2.6515     | 16.1493     | 315.0000    | 0.0038     |
| 26                                  | 8093      | 7/8/2008    | ND         | ND         | ND         | 0.0127     | ND        | ND         | 212.5000     | 0.0013     | 8.3000  | 1.6705     | ND          | 225.0000    | 0.0040     |
| 27                                  | 8094      | 7/8/2008    | ND         | ND         | 44.8691    | 0.0144     | ND        | ND         | 421.4000     | 0.0004     | 7.7200  | 3.5978     | 27.9152     | 467.0000    | 0.0047     |
| 28                                  | 8095      | 7/8/2008    | ND         | ND         | ND         | 0.0090     | ND        | ND         | 213.7000     | 0.0016     | 8.2600  | 1.7441     | ND          | 228.0000    | ND         |
| 29                                  | 8096      | 7/8/2008    | ND         | ND         | ND         | 0.0095     | ND        | ND         | 279.0000     | ND         | 8.0000  | 2.7598     | 14.7085     | 291.0000    | 0.0025     |
| 30                                  | 8097      | 7/8/2008    | ND         | ND         | 14.4628    | 0.0135     | ND        | ND         | 363.6000     | 0.0026     | 8.0400  | 6.3826     | 19.2257     | 405.0000    | 0.0030     |
| 31                                  | 8098      | 7/8/2008    | ND         | ND         | ND         | 0.0033     | ND        | ND         | 212.1000     | 0.0015     | 8.3600  | 1.6883     | ND          | 227.0000    | ND         |
| 32                                  | 8099      | 7/8/2008    | ND         | ND         | ND         | 0.0125     | ND        | ND         | 285.4000     | ND         | 7.7900  | 4.0061     | 14.3921     | 311.0000    | 0.0052     |
| 33                                  | 8100      | 7/8/2008    | ND         | ND         | ND         | 0.0354     | ND        | ND         | 233.9000     | 0.0014     | 7.9800  | 10.8152    | 17.7286     | 290.0000    | 0.1926     |
| 34                                  | 8101      | 7/8/2008    | ND         | ND         | 237.7241   | 0.0104     | ND        | ND         | 618.2000     | 0.0230     | 7.8000  | 4.9893     | 526.4136    | 1472.0000   | 0.0129     |
| 35                                  | 8102      | 7/8/2008    | ND         | ND         | ND         | 0.0091     | ND        | ND         | 275.9000     | 0.0008     | 7.9100  | 10.4158    | 23.4211     | 331.0000    | 0.0062     |
| 36                                  | 8103      | 7/8/2008    | ND         | ND         | ND         | 0.0066     | ND        | ND         | 267.4000     | ND         | 7.8700  | 3.9129     | 25.9632     | 313.0000    | 0.0167     |
| 37                                  | 8104      | 7/8/2008    | ND         | ND         | 13.3670    | 0.0067     | ND        | ND         | 335.6000     | 0.0004     | 7.8300  | 6.6991     | 28.9260     | 394.0000    | 0.0139     |
| 38                                  | 8105      | 7/8/2008    | ND         | ND         | ND         | 0.0122     | ND        | 0.0193     | 315.4000     | 0.0003     | 7.8900  | 7.0855     | 22.5151     | 368.0000    | 0.0049     |



| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 39                                  | 8106      | 7/8/2008    | ND         | ND         | ND         | 0.0063     | ND        | ND         | 259.1000     | ND         | 7.9800  | 5.8008     | 21.9879     | 302.0000    | 0.0041     |
| 40                                  | 8107      | 7/8/2008    | ND         | ND         | 80.8920    | 0.0173     | ND        | ND         | 118.3000     | 0.0041     | 8.2000  | 11.0482    | 136.1233    | 847.0000    | 0.0125     |
| 41                                  | 8108      | 7/8/2008    | ND         | ND         | ND         | 0.0105     | ND        | ND         | 327.7000     | 0.0015     | 7.9900  | 4.6730     | 78.1299     | 385.0000    | 0.0784     |
| 42                                  | 8196      | 8/25/2008   | ND         | ND         | 180.6494   | 0.0178     | ND        | 2.7601     | 844.4000     | 0.0971     | 7.1800  | 12.8660    | 250.2179    | 1097.0000   | 1.7700     |
| 43                                  | 8197      | 8/25/2008   | ND         | ND         | 61.2034    | 0.0159     | ND        | ND         | 5.1000       | 0.0004     | 9.1200  | 7.0265     | 71.4885     | 734.0000    | 0.0076     |
| 44                                  | 8198      | 8/25/2008   | ND         | ND         | 137.5000   | 0.0119     | 3.7719    | 0.0215     | 5.1000       | 0.0046     | 9.0800  | 3.3115     | 94.4612     | 838.0000    | 0.0099     |
| 45                                  | 8199      | 8/25/2008   | ND         | ND         | 97.8561    | 0.0039     | ND        | 0.0145     | 10.4000      | 0.0004     | 8.7800  | 5.8572     | 117.9836    | 850.0000    | 0.0274     |
| 46                                  | 8200      | 8/25/2008   | ND         | ND         | 269.1229   | 0.0113     | ND        | ND         | 66.1000      | 0.0016     | 8.3200  | 4.0548     | 126.2227    | 819.0000    | 0.0034     |
| 47                                  | 8201      | 8/25/2008   | ND         | ND         | 105.7968   | 0.0263     | ND        | ND         | 373.8000     | 0.0018     | 8.0100  | 4.4206     | 56.5904     | 484.0000    | 0.0149     |
| 48                                  | 8202      | 8/25/2008   | ND         | ND         | 206.2971   | 0.0885     | ND        | ND         | 361.1000     | ND         | 7.9900  | 5.5844     | 106.3193    | 836.0000    | 0.5129     |
| 49                                  | 8203      | 8/25/2008   | ND         | ND         | 244.7388   | 0.0073     | ND        | ND         | 487.8000     | 0.0011     | 7.8100  | 8.8183     | 231.3357    | 1001.0000   | 0.0090     |
| 50                                  | 8204      | 8/25/2008   | ND         | ND         | 282.4121   | 0.0557     | ND        | 0.0113     | 521.7000     | 0.0023     | 7.7400  | 15.8001    | 127.6762    | 1038.0000   | 0.0383     |
| 51                                  | 8279      | 10/9/2008   | ND         | ND         | ND         | 0.0071     | ND        | ND         | 272.6000     | 0.0022     | 8.4300  | 3.7364     | 25.0073     | 314.0000    | 0.0031     |
| 52                                  | 8280      | 10/9/2008   | ND         | ND         | 87.1312    | 0.0272     | ND        | ND         | 1136.1000    | 0.0009     | 7.5500  | 12.9749    | 536.2582    | 1377.0000   | 0.0862     |
| 53                                  | 8281      | 10/9/2008   | ND         | ND         | 27.6442    | 0.0184     | ND        | ND         | 8.8000       | 0.0008     | 8.8500  | 3.4452     | 104.3221    | 719.0000    | 0.0099     |
| 54                                  | 8295      | 10/9/2008   | ND         | ND         | 29.5609    | 0.0164     | ND        | ND         | 366.5000     | 0.0134     | 7.9100  | 3.7659     | 21.1477     | 369.0000    | 0.0282     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 12         | 0          | 1         | 1          | 49           | 1          | 4       | 0          | 13          | 54          | 0          |

ND - Not Detected

Map 24. Sanpete District - Gunnison Area

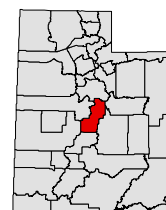


Map Scale 1:158,400 (1 inch = 2.5 miles)



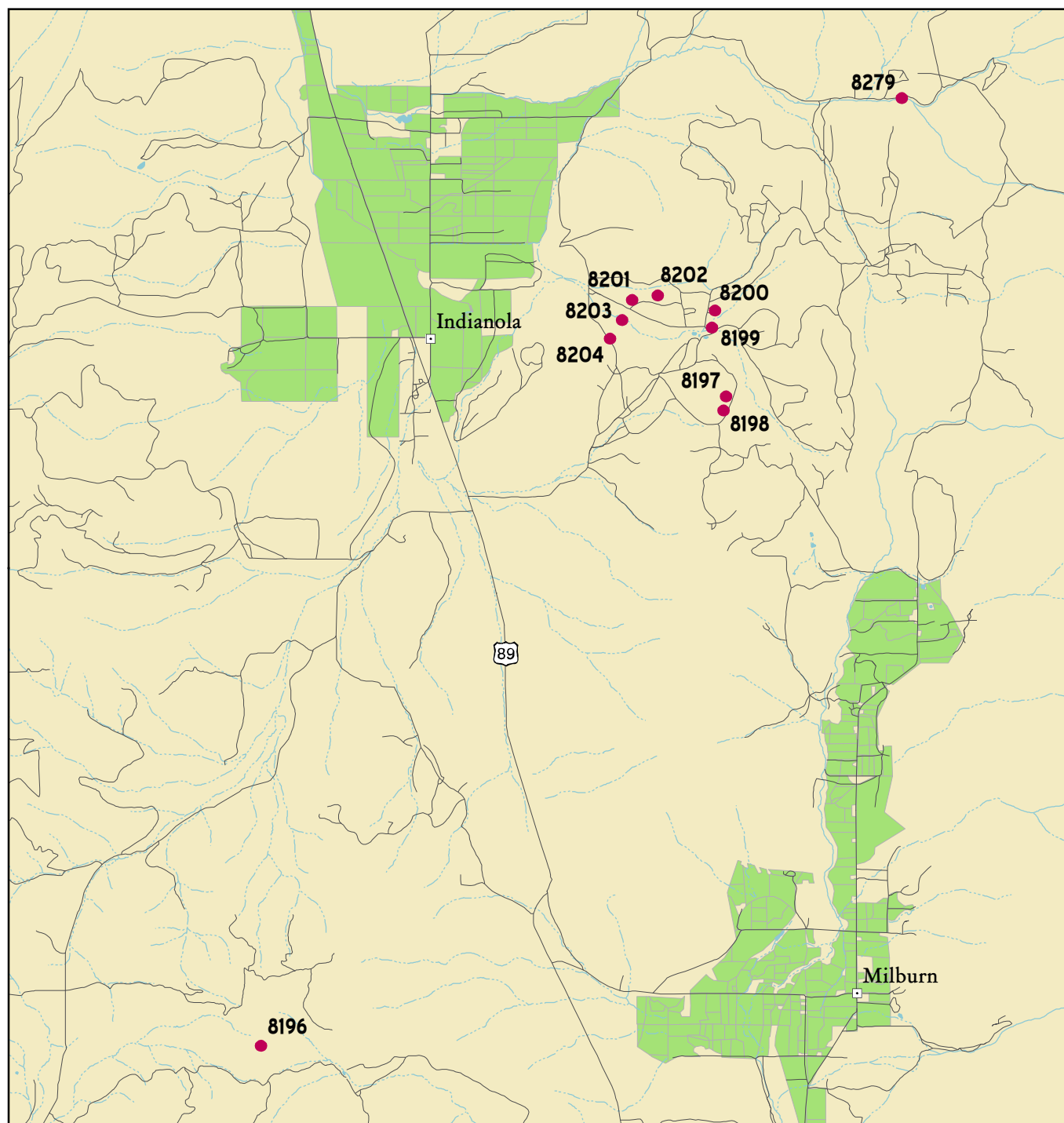
- |  |                 |  |                     |
|--|-----------------|--|---------------------|
|  | Sample location |  | Intermittent stream |
|  | Road            |  | Water body          |
|  | Stream          |  | Irrigated cropland  |
|  | Ditch or canal  |  | District boundary   |
|  | Aqueduct        |  |                     |

District Location





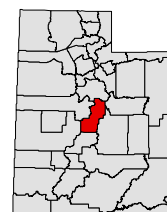
Map 25. Sanpete District - Indianola Area



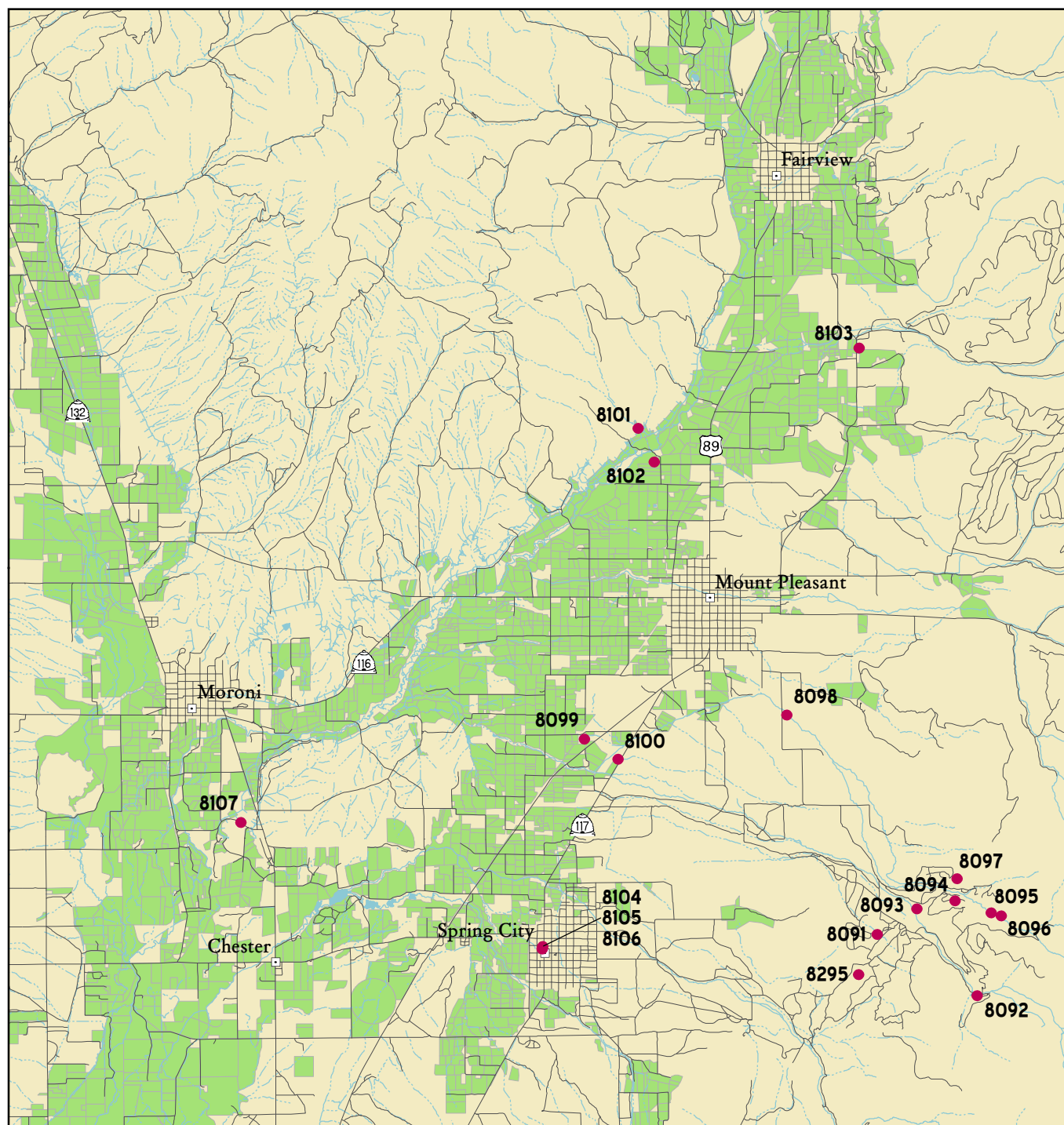
Map Scale 1:76,032 (1 inch = 1.2 miles)



District Location



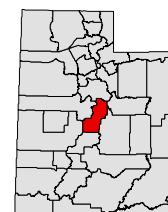
Map 26. Sanpete District - Mount Pleasant Area












Map Scale 1:126,720 (1 inch = 2 miles)



District Location



- |   |                 |   |                     |
|---|-----------------|---|---------------------|
|  | Sample location |  | Intermittent stream |
|  | Road            |  | Water body          |
|  | Stream          |  | Irrigated cropland  |
|  | Ditch or canal  |  | District boundary   |
|  | Aqueduct        |   |                     |

# Sevier County District

## General:

### General Sample Information

|    | Sample No | Collected Date | Coliform | Ecoli | Temperature     | EC   | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site  | Site Condition | Well Head        | Material | Casing Condition | Cullinary                           | Irrigation                          | Industrial               | Landscape                | Natural                  | Drainage                 | Other                    |
|----|-----------|----------------|----------|-------|-----------------|------|----------|-----------|---------------|--------------|----------------|------------------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1  | 8018      | 5/27/2008      | POS      | POS   | 55.2 F (12.9 C) | 1909 | 1513.    | 2.400     | 855.0         | Well         | Gravel         | Pit Cinder Block | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2  | 8019      | 5/27/2008      | POS      | ND    | 55.8 F (13.2 C) | 867  | 542.0    | 1.000     | 419.0         | Well         | Vegetated      | Covered          | Steel    |                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3  | 8020      | 5/27/2008      | ND       | ND    | 55.9 F (13.3 C) | 813  | 523.0    | 2.200     | 275.8         | Well         | Soil           | Covered          | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4  | 8021      | 5/27/2008      | ND       | ND    | 57.7 F (14.3 C) | 826  | 532.0    | 1.000     | 384.0         | Well         | Soil           | Soil             | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5  | 8022      | 5/27/2008      | POS      | ND    | 59.9 F (15.5 C) | 474  | 307.0    | 1.300     | 174.7         | Well         | Vegetated      | Lawn             | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6  | 8023      | 5/27/2008      | ND       | ND    | 58.5 F (14.7 C) | 527  | 318.0    | 0.800     | 230.8         | Well         | soil           | soil             | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7  | 8024      | 5/27/2008      | ND       | ND    | 60.1 F (15.6 C) | 3470 | 2543.    | 6.200     | 801.4         | Well         | Gravel         | Gravel           | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8  | 8025      | 5/27/2008      | POS      | ND    | 56.7 F (13.7 C) | 921  | 582.0    | 1.700     | 347.4         | Well         | soil           | soil             | steel    | sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9  | 8026      | 5/27/2008      | POS      | ND    | 62.1 F (16.7 C) | 921  | 607.0    | 1.400     | 390.5         | Well         | soil           | soil             | steel    | sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 | 8027      | 5/27/2008      | ND       | ND    | 57.2 F (14.0 C) | 939  | 609.0    | 1.400     | 387.7         | Well         | gravel         | well house       | steel    | sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11 | 8028      | 5/27/2008      | ND       | ND    | 59.0 F (15.0 C) | 800  | 528.0    | 1.000     | 360.9         | Well         | Vegetated      | Covered          | Steel    |                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 | 8029      | 5/27/2008      | ND       | ND    | 53.8 F (12.1 C) | 399  | 260.0    | 1.500     | 127.5         | Well         | Vegetated      | soil             | steel    | sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | 8282      | 10/7/2008      | ND       | ND    | 52.5 F (11.4 C) | 649  | 371.0    | 0.500     | 330.2         | Flowing Well | Vegetated      | Lawn             | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 8283      | 10/7/2008      | ND       | ND    | 54.0 F (12.2 C) | 609  | 364.0    | 0.400     | 312.9         | Flowing Well | Livestock      | Soil             | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15 | 8284      | 10/7/2008      | ND       | ND    | 52.0 F (11.1 C) | 1495 | 1166.    | 0.400     | 949.6         | Flowing Well | Livestock      | Soil             | Concrete | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16 | 8285      | 10/7/2008      | ND       | ND    | 52.2 F (11.2 C) | 1834 | 1436.    | 0.400     | 1275.         | Flowing Well | Livestock      | Soil             | Concrete | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17 | 8286      | 10/7/2008      | ND       | ND    | 52.2 F (11.2 C) | 1124 | 779.0    | 0.400     | 683.9         | Flowing Well | Livestock      | Soil             | Concrete | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18 | 8287      | 10/7/2008      | ND       | ND    | 52.3 F (11.3 C) | 1190 | 851.0    | 0.400     | 739.5         | Flowing Well | Livestock      | Soil             | Concrete | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19 | 8288      | 10/7/2008      | ND       | ND    | 52.3 F (11.3 C) | 1132 | 791.0    | 0.400     | 698.2         | Flowing Well | Livestock      | Soil             | Concrete | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 20 | 8289      | 10/7/2008      | ND       | ND    | 54.1 F (12.3 C) | 1519 | 798.0    | 2.800     | 580.1         | Flowing Well | Vegetated      | Soil             | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 21 | 8290      | 10/7/2008      | ND       | ND    | 59.0 F (15.0 C) | 697  | 403.0    | 0.400     | 360.4         | Flowing Well | Vegetated      | Soil             | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 22 | 8291      | 10/7/2008      | ND       | ND    | 54.3 F (12.4 C) | 556  | 322.0    | 0.500     | 268.7         | Flowing Well | Livestock      | Well House       | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 23 | 8292      | 10/7/2008      | ND       | ND    | 56.8 F (13.8 C) | 1203 | 812.0    | 1.500     | 634.1         | Well         | Vegetated      | Soil             | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 24 | 8293      | 10/7/2008      | POS      | ND    | 75.4 F (24.1 C) | 7320 | 5061.    | 19.60     | 900.0         | Well         | Gravel         | Gravel           | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 25 | 8294      | 10/7/2008      | ND       | ND    | 63.3 F (17.4 C) | 3670 | 2229.    | 12.70     | 426.5         | Well         | Vegetated      | Soil             | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Bacteria Positive Sample Count      6      1      ND - Not Detected



**Irrigation:**

| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                                 | 8018      | 5/30/2008   | ND         | 0.2816       | ND         | 147.2208   | 322.3328   | 0.0003     | ND          | 0.0047     | 0.0404     | ND        | 0.0137     | 544.8130     | 5.4403    | 0.0944     | 118.1968   |
| 2                                 | 8019      | 5/30/2008   | ND         | 0.2417       | ND         | 38.4623    | 13.6233    | ND         | ND          | 0.0047     | 0.0324     | ND        | ND         | 563.6720     | 1.9099    | 0.0673     | 78.3627    |
| 3                                 | 8020      | 5/30/2008   | ND         | 0.3419       | ND         | 34.6431    | 38.5484    | ND         | ND          | 0.0032     | 0.0234     | ND        | ND         | 400.4860     | 5.1077    | 0.0336     | 45.9273    |
| 4                                 | 8021      | 5/30/2008   | ND         | 0.1297       | ND         | 39.1249    | 29.5445    | ND         | ND          | 0.0022     | 0.0161     | ND        | ND         | 415.7920     | 1.2933    | 0.0498     | 69.4745    |
| 5                                 | 8022      | 5/30/2008   | ND         | 0.1579       | ND         | 24.0943    | 19.7577    | ND         | ND          | 0.0017     | 0.0275     | ND        | ND         | 253.5090     | 2.4124    | 0.0236     | 27.7796    |
| 6                                 | 8023      | 5/30/2008   | ND         | 0.0671       | ND         | 36.8126    | 17.0097    | ND         | ND          | 0.0019     | 0.0310     | ND        | ND         | 294.1500     | 1.8979    | 0.0151     | 33.6882    |
| 7                                 | 8024      | 5/30/2008   | ND         | 0.3342       | ND         | 224.9396   | 689.3550   | 0.0004     | ND          | 0.0014     | 0.0119     | ND        | ND         | 234.5960     | 4.3825    | 0.0232     | 58.0247    |
| 8                                 | 8025      | 5/30/2008   | ND         | 0.2012       | ND         | 92.9368    | 54.5870    | ND         | ND          | 0.0027     | 0.0188     | ND        | ND         | 457.9160     | 4.8042    | 0.0441     | 27.9315    |
| 9                                 | 8026      | 5/30/2008   | ND         | 0.2238       | ND         | 109.3725   | 75.4650    | ND         | ND          | 0.0027     | 0.0470     | ND        | ND         | 413.1070     | 4.4886    | 0.0170     | 28.4244    |
| 10                                | 8027      | 5/30/2008   | ND         | 0.2039       | ND         | 108.5274   | 77.6544    | ND         | ND          | 0.0027     | 0.0248     | ND        | ND         | 404.2620     | 4.7277    | 0.0173     | 28.2368    |
| 11                                | 8028      | 5/30/2008   | ND         | 0.1612       | ND         | 106.2119   | 43.8515    | ND         | ND          | 0.0022     | 0.0110     | ND        | ND         | 405.0280     | 4.8065    | 0.0144     | 23.1395    |
| 12                                | 8029      | 5/30/2008   | ND         | 0.0833       | ND         | 38.0838    | ND         | ND         | ND          | 0.0007     | 0.0047     | 2.9822    | ND         | 198.7860     | 1.0064    | 0.0056     | 7.8354     |
| 13                                | 8282      | 10/9/2008   | ND         | 0.0585       | ND         | 74.0270    | 24.0709    | ND         | ND          | 0.0008     | 0.0246     | ND        | ND         | 301.3720     | 3.5954    | 0.0186     | 35.2328    |
| 14                                | 8283      | 10/9/2008   | ND         | 0.0438       | ND         | 85.1787    | 36.6884    | ND         | ND          | 0.0007     | 0.0079     | ND        | 0.5331     | 234.8820     | 3.0240    | 0.0100     | 24.2541    |
| 15                                | 8284      | 10/9/2008   | ND         | 0.2305       | ND         | 220.9205   | 44.4472    | ND         | ND          | ND         | 0.0209     | ND        | ND         | 346.4150     | 5.3231    | 0.0232     | 96.4250    |
| 16                                | 8285      | 10/9/2008   | ND         | 0.3434       | ND         | 301.4231   | 50.8860    | ND         | ND          | ND         | 0.0207     | ND        | ND         | 386.1300     | 6.1246    | 0.0290     | 126.7276   |
| 17                                | 8286      | 10/9/2008   | ND         | 0.1448       | ND         | 164.3992   | 36.9508    | ND         | ND          | ND         | 0.0313     | ND        | ND         | 320.4510     | 4.4790    | 0.0210     | 66.2409    |
| 18                                | 8287      | 10/9/2008   | ND         | 0.1552       | ND         | 177.4203   | 40.0920    | ND         | ND          | 0.0007     | 0.0090     | ND        | ND         | 312.4730     | 4.4606    | 0.0214     | 71.8416    |
| 19                                | 8288      | 10/9/2008   | ND         | 0.1390       | ND         | 165.5238   | 37.6256    | ND         | ND          | ND         | 0.0076     | ND        | 0.0176     | 319.1510     | 4.4354    | 0.0213     | 69.0378    |
| 20                                | 8289      | 10/9/2008   | ND         | 0.3519       | ND         | 107.2400   | 113.8564   | ND         | ND          | ND         | 0.0160     | ND        | ND         | 440.4150     | 7.0758    | 0.0305     | 75.7304    |
| 21                                | 8290      | 10/9/2008   | ND         | 0.0471       | ND         | 98.0571    | 34.1849    | ND         | ND          | 0.0007     | 0.0135     | ND        | ND         | 219.4880     | 3.2376    | 0.0112     | 27.9772    |
| 22                                | 8291      | 10/9/2008   | ND         | 0.0441       | ND         | 71.7132    | 17.4636    | ND         | ND          | ND         | 0.0125     | ND        | 0.0453     | 259.3690     | 2.7053    | 0.0094     | 21.6933    |
| 23                                | 8292      | 10/9/2008   | ND         | 0.3240       | ND         | 62.6421    | 23.1117    | 0.0007     | ND          | 0.0010     | 0.0409     | ND        | ND         | 792.7010     | 0.4853    | 0.0775     | 115.8949   |
| 24                                | 8293      | 10/9/2008   | ND         | 7.5690       | ND         | 307.3297   | 1882.3060  | 0.0004     | ND          | ND         | 0.0042     | ND        | 0.6643     | 292.5100     | 21.2231   | 3.9820     | 31.9592    |
| 25                                | 8294      | 10/9/2008   | ND         | 2.4530       | ND         | 141.0571   | 622.4295   | ND         | ND          | 0.0009     | 0.0402     | ND        | ND         | 506.0540     | 9.0925    | 0.8592     | 17.9216    |
| Test Count that Exceeded Standard |           |             | 0          | 2            | 0          | 0          | 7          | 0          | 0           | 0          | 0          | 1         | 0          | 25           | 0         | 1          | 0          |

ND - Not Detected

| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8018      | 5/30/2008   | 0.0042     | 0.0048     | 159.2034   | 0.0032     | 0.0026     | ND          | 2.4000       | 0.0088     | 1513.0000   | 0.0095    | 0.3891     |
| 2                                  | 8019      | 5/30/2008   | ND         | 0.0173     | 46.4727    | 0.0008     | 0.0019     | ND          | 1.0000       | ND         | 542.0000    | 0.0087    | ND         |
| 3                                  | 8020      | 5/30/2008   | 0.0004     | 0.0021     | 82.0601    | ND         | ND         | ND          | 2.2000       | ND         | 523.0000    | 0.0075    | 0.0106     |
| 4                                  | 8021      | 5/30/2008   | 0.0005     | 0.0028     | 44.8019    | ND         | ND         | ND          | 1.0000       | ND         | 532.0000    | 0.0302    | 0.0130     |
| 5                                  | 8022      | 5/30/2008   | 0.0049     | 0.0038     | 40.0682    | ND         | ND         | ND          | 1.3000       | ND         | 307.0000    | 0.0054    | 0.0051     |
| 6                                  | 8023      | 5/30/2008   | ND         | 0.0008     | 27.4121    | ND         | ND         | ND          | 0.8000       | ND         | 318.0000    | 0.0043    | 0.0136     |
| 7                                  | 8024      | 5/30/2008   | 0.0003     | 0.0047     | 404.3602   | 0.0025     | ND         | ND          | 6.2000       | ND         | 2543.0000   | 0.0059    | 0.0293     |
| 8                                  | 8025      | 5/30/2008   | 0.0020     | 0.0008     | 72.5198    | 0.0016     | ND         | ND          | 1.7000       | ND         | 582.0000    | 0.0048    | 0.0299     |
| 9                                  | 8026      | 5/30/2008   | 0.0086     | ND         | 61.6701    | 0.0049     | ND         | ND          | 1.4000       | ND         | 607.0000    | 0.0025    | 0.1905     |
| 10                                 | 8027      | 5/30/2008   | 0.0011     | ND         | 64.0134    | 0.0012     | ND         | ND          | 1.4000       | ND         | 609.0000    | 0.0035    | 0.0139     |
| 11                                 | 8028      | 5/30/2008   | ND         | ND         | 45.2264    | 0.0010     | ND         | ND          | 1.0000       | ND         | 528.0000    | 0.0048    | ND         |
| 12                                 | 8029      | 5/30/2008   | ND         | 0.0303     | 38.7207    | ND         | ND         | ND          | 1.5000       | ND         | 260.0000    | ND        | 0.0135     |
| 13                                 | 8282      | 10/9/2008   | ND         | 0.0028     | 21.1772    | ND         | ND         | ND          | 0.5000       | ND         | 371.0000    | 0.0033    | 0.0058     |
| 14                                 | 8283      | 10/9/2008   | ND         | ND         | 14.7599    | ND         | ND         | ND          | 0.4000       | ND         | 364.0000    | 0.0020    | 0.0115     |
| 15                                 | 8284      | 10/9/2008   | ND         | 0.0007     | 29.9788    | 0.0011     | ND         | ND          | 0.4000       | ND         | 1166.0000   | 0.0025    | 0.0064     |
| 16                                 | 8285      | 10/9/2008   | ND         | ND         | 36.0550    | 0.0016     | ND         | ND          | 0.4000       | ND         | 1436.0000   | 0.0023    | 0.0094     |
| 17                                 | 8286      | 10/9/2008   | ND         | 0.0012     | 24.9856    | 0.0009     | ND         | ND          | 0.4000       | ND         | 779.0000    | 0.0029    | 0.0089     |
| 18                                 | 8287      | 10/9/2008   | ND         | 0.0008     | 25.0054    | 0.0008     | ND         | ND          | 0.4000       | ND         | 851.0000    | 0.0027    | 0.0059     |
| 19                                 | 8288      | 10/9/2008   | ND         | 0.0010     | 25.0536    | 0.0007     | ND         | ND          | 0.4000       | ND         | 791.0000    | 0.0028    | 0.0041     |
| 20                                 | 8289      | 10/9/2008   | 0.0274     | 0.0018     | 156.6872   | 0.0011     | ND         | ND          | 2.8000       | ND         | 798.0000    | 0.0020    | 0.0052     |
| 21                                 | 8290      | 10/9/2008   | 0.0006     | ND         | 15.6246    | ND         | ND         | ND          | 0.4000       | ND         | 403.0000    | 0.0020    | 0.0912     |
| 22                                 | 8291      | 10/9/2008   | 0.0099     | 0.0007     | 17.2391    | ND         | ND         | ND          | 0.5000       | ND         | 322.0000    | 0.0024    | 0.0059     |
| 23                                 | 8292      | 10/9/2008   | 0.1238     | 0.0267     | 89.4331    | 0.0047     | 0.0014     | ND          | 1.5000       | ND         | 812.0000    | 0.0194    | 0.0492     |
| 24                                 | 8293      | 10/9/2008   | 1.4210     | 0.0171     | 1348.9260  | 0.0017     | ND         | ND          | 19.6000      | ND         | 5061.0000   | ND        | 0.0081     |
| 25                                 | 8294      | 10/9/2008   | 0.0111     | 0.0041     | 602.2354   | 0.0010     | ND         | ND          | 12.7000      | ND         | 2229.0000   | 0.0040    | 0.0199     |
| Test Count that Exceeded Standard: |           |             | 1          | 4          | 8          | 0          | 0          | 0           | 3            | 0          | 25          | 0         | 0          |

ND - Not Detected



**Livestock:**

| Livestock Standards               |             |            | 5          | 0.2       | 5          | .1         | 0.05       | 1          | 1          | .5        | 2          | 10          | 440        | .1      | 5.5-8.3    | .05         | 167;333     | 1000;3000; | 25     |
|-----------------------------------|-------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|--------|
| Sample No                         | Tested Date | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |        |
| 1                                 | 8018        | 5/30/2008  | ND         | 0.0057    | 0.2816     | ND         | ND         | 0.0003     | 0.0047     | 0.0404    | ND         | ND          | 237.0864   | 0.0026  | 8.0400     | 0.0088      | 246.0775    | 1513.0000  | 0.3891 |
| 2                                 | 8019        | 5/30/2008  | ND         | 0.0025    | 0.2417     | ND         | ND         | ND         | 0.0047     | 0.0324    | ND         | ND          | 17.9760    | 0.0019  | 7.8600     | ND          | 50.6204     | 542.0000   | ND     |
| 3                                 | 8020        | 5/30/2008  | ND         | 0.0052    | 0.3419     | ND         | ND         | ND         | 0.0032     | 0.0234    | ND         | ND          | 25.4288    | ND      | 7.8800     | ND          | 73.4487     | 523.0000   | 0.0106 |
| 4                                 | 8021        | 5/30/2008  | ND         | 0.0194    | 0.1297     | ND         | ND         | ND         | 0.0022     | 0.0161    | ND         | ND          | 12.4295    | ND      | 7.8500     | ND          | 101.3034    | 532.0000   | 0.0130 |
| 5                                 | 8022        | 5/30/2008  | ND         | 0.0036    | 0.1579     | ND         | ND         | ND         | 0.0017     | 0.0275    | ND         | ND          | ND         | ND      | 7.9900     | ND          | 52.6118     | 307.0000   | 0.0051 |
| 6                                 | 8023        | 5/30/2008  | ND         | ND        | 0.0671     | ND         | ND         | ND         | 0.0019     | 0.0310    | ND         | ND          | ND         | ND      | 7.9900     | ND          | 42.1970     | 318.0000   | 0.0136 |
| 7                                 | 8024        | 5/30/2008  | ND         | 0.0051    | 0.3342     | ND         | ND         | 0.0004     | 0.0014     | 0.0119    | ND         | ND          | ND         | ND      | 7.5600     | ND          | 1018.3460   | 2543.0000  | 0.0293 |
| 8                                 | 8025        | 5/30/2008  | ND         | 0.0039    | 0.2012     | ND         | ND         | ND         | 0.0027     | 0.0188    | ND         | ND          | 15.1050    | ND      | 7.7400     | ND          | 71.5502     | 582.0000   | 0.0299 |
| 9                                 | 8026        | 5/30/2008  | ND         | ND        | 0.2238     | ND         | ND         | ND         | 0.0027     | 0.0470    | ND         | ND          | 23.4799    | ND      | 7.8400     | ND          | 85.4350     | 607.0000   | 0.1905 |
| 10                                | 8027        | 5/30/2008  | ND         | 0.0031    | 0.2039     | ND         | ND         | ND         | 0.0027     | 0.0248    | ND         | ND          | 24.2783    | ND      | 7.9600     | ND          | 86.3513     | 609.0000   | 0.0139 |
| 11                                | 8028        | 5/30/2008  | ND         | 0.0034    | 0.1612     | ND         | ND         | ND         | 0.0022     | 0.0110    | ND         | ND          | 12.7238    | ND      | 7.7800     | ND          | 77.0842     | 528.0000   | ND     |
| 12                                | 8029        | 5/30/2008  | ND         | 0.0031    | 0.0833     | ND         | ND         | ND         | 0.0007     | 0.0047    | 2.9822     | ND          | ND         | ND      | 7.8900     | ND          | 55.3462     | 260.0000   | 0.0135 |
| 13                                | 8282        | 10/9/2008  | ND         | 0.0037    | 0.0585     | ND         | ND         | ND         | 0.0008     | 0.0246    | ND         | ND          | ND         | ND      | 7.8400     | ND          | 41.7426     | 371.0000   | 0.0058 |
| 14                                | 8283        | 10/9/2008  | ND         | ND        | 0.0438     | ND         | ND         | ND         | 0.0007     | 0.0079    | ND         | ND          | 12.2295    | ND      | 7.9200     | ND          | 56.5648     | 364.0000   | 0.0115 |
| 15                                | 8284        | 10/9/2008  | ND         | 0.0025    | 0.2305     | ND         | ND         | ND         | ND         | 0.0209    | ND         | ND          | ND         | ND      | 7.6300     | ND          | 572.7397    | 1166.0000  | 0.0064 |
| 16                                | 8285        | 10/9/2008  | ND         | 0.0023    | 0.3434     | ND         | ND         | ND         | ND         | 0.0207    | ND         | ND          | ND         | ND      | 7.5700     | ND          | 699.3227    | 1436.0000  | 0.0094 |
| 17                                | 8286        | 10/9/2008  | ND         | 0.0032    | 0.1448     | ND         | ND         | ND         | ND         | 0.0313    | ND         | ND          | ND         | ND      | 7.9300     | ND          | 299.0387    | 779.0000   | 0.0089 |
| 18                                | 8287        | 10/9/2008  | ND         | 0.0028    | 0.1552     | ND         | ND         | ND         | 0.0007     | 0.0090    | ND         | ND          | ND         | ND      | 7.7500     | ND          | 353.0756    | 851.0000   | 0.0059 |
| 19                                | 8288        | 10/9/2008  | ND         | 0.0028    | 0.1390     | ND         | ND         | ND         | ND         | 0.0076    | ND         | ND          | ND         | ND      | 7.9500     | ND          | 306.5867    | 791.0000   | 0.0041 |
| 20                                | 8289        | 10/9/2008  | ND         | ND        | 0.3519     | ND         | ND         | ND         | ND         | 0.0160    | ND         | ND          | ND         | ND      | 7.9400     | ND          | 97.8629     | 798.0000   | 0.0052 |
| 21                                | 8290        | 10/9/2008  | ND         | ND        | 0.0471     | ND         | ND         | ND         | 0.0007     | 0.0135    | ND         | ND          | 13.9856    | ND      | 7.9200     | ND          | 87.3019     | 403.0000   | 0.0912 |
| 22                                | 8291        | 10/9/2008  | ND         | 0.0020    | 0.0441     | ND         | ND         | ND         | ND         | 0.0125    | ND         | ND          | ND         | ND      | 8.0800     | ND          | 41.3652     | 322.0000   | 0.0059 |
| 23                                | 8292        | 10/9/2008  | ND         | 0.0075    | 0.3240     | ND         | ND         | 0.0007     | 0.0010     | 0.0409    | ND         | ND          | ND         | 0.0014  | 7.7900     | ND          | 92.0226     | 812.0000   | 0.0492 |
| 24                                | 8293        | 10/9/2008  | ND         | 0.1374    | 7.5690     | ND         | ND         | 0.0004     | ND         | 0.0042    | ND         | ND          | ND         | ND      | 7.7600     | ND          | 1292.4210   | 5061.0000  | 0.0081 |
| 25                                | 8294        | 10/9/2008  | ND         | 0.0452    | 2.4530     | ND         | ND         | ND         | 0.0009     | 0.0402    | ND         | ND          | 18.8828    | ND      | 7.8800     | ND          | 542.5757    | 2229.0000  | 0.0199 |
| Test Count that Exceeded Standard |             |            | 0          | 0         | 1          | 0          | 0          | 0          | 0          | 0         | 1          | 0           | 0          | 0       | 0          | 0           | 9           | 6          | 0      |

ND - Not Detected



**Culinary:**

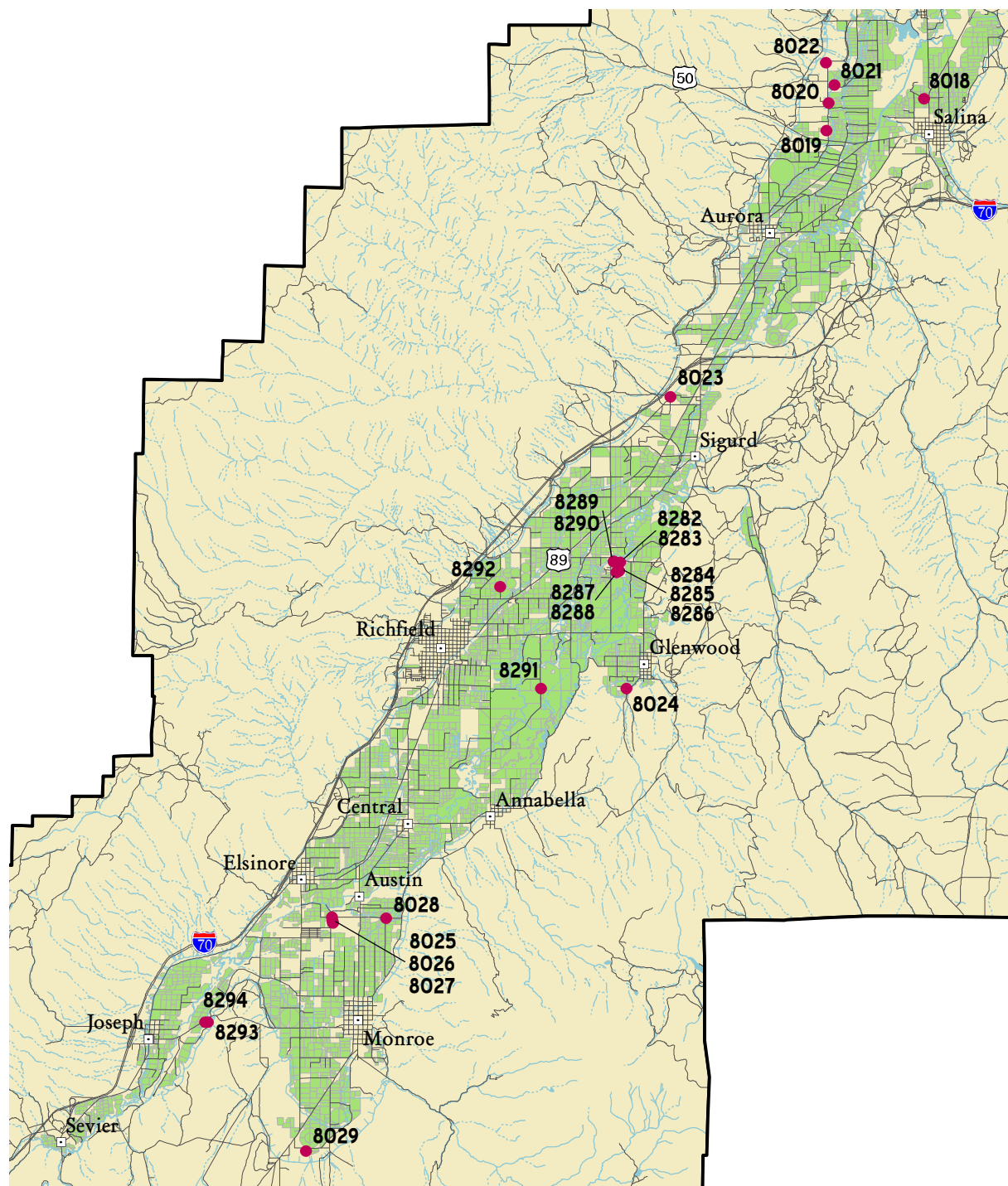
| Drinking Water Primary Standards  |           |             | 0.01   | 2      | 0.004 | 0.005 | 25   | 0.1    | 1.3    | 4      | 2    | 10000     | 1000   | 44.3     | .015   | .05    | 500       | 2000      |
|-----------------------------------|-----------|-------------|--------|--------|-------|-------|------|--------|--------|--------|------|-----------|--------|----------|--------|--------|-----------|-----------|
|                                   |           |             | As     | Ba     | Be    | Cd    | ClO4 | Cr     | Cu     | F      | Hg   | Na        | Ni     | NO3      | Pb     | Se     | SO4       | TDS       |
|                                   | Sample No | Tested Date | mg/L   | mg/L   | mg/L  | mg/L  | ug/L | mg/L   | mg/L   | mg/L   | ug/L | mg/L      | mg/L   | mg/L     | mg/L   | mg/L   | mg/L      | mg/L      |
| 1                                 | 8018      | 5/30/2008   | 0.0057 | 0.1150 | ND    | ND    | ND   | 0.0047 | 0.0404 | ND     | ND   | 159.2034  | 0.0032 | 237.0864 | 0.0026 | 0.0088 | 246.0775  | 1513.0000 |
| 2                                 | 8019      | 5/30/2008   | 0.0025 | 0.0711 | ND    | ND    | ND   | 0.0047 | 0.0324 | ND     | ND   | 46.4727   | 0.0008 | 17.9760  | 0.0019 | ND     | 50.6204   | 542.0000  |
| 3                                 | 8020      | 5/30/2008   | 0.0052 | 0.0609 | ND    | ND    | ND   | 0.0032 | 0.0234 | ND     | ND   | 82.0601   | ND     | 25.4288  | ND     | ND     | 73.4487   | 523.0000  |
| 4                                 | 8021      | 5/30/2008   | 0.0194 | 0.0455 | ND    | ND    | ND   | 0.0022 | 0.0161 | ND     | ND   | 44.8019   | ND     | 12.4295  | ND     | ND     | 101.3034  | 532.0000  |
| 5                                 | 8022      | 5/30/2008   | 0.0036 | 0.0401 | ND    | ND    | ND   | 0.0017 | 0.0275 | ND     | ND   | 40.0682   | ND     | ND       | ND     | ND     | 52.6118   | 307.0000  |
| 6                                 | 8023      | 5/30/2008   | ND     | 0.1178 | ND    | ND    | ND   | 0.0019 | 0.0310 | ND     | ND   | 27.4121   | ND     | ND       | ND     | ND     | 42.1970   | 318.0000  |
| 7                                 | 8024      | 5/30/2008   | 0.0051 | 0.0354 | ND    | ND    | ND   | 0.0014 | 0.0119 | ND     | ND   | 404.3602  | 0.0025 | ND       | ND     | ND     | 1018.3460 | 2543.0000 |
| 8                                 | 8025      | 5/30/2008   | 0.0039 | 0.0737 | ND    | ND    | ND   | 0.0027 | 0.0188 | ND     | ND   | 72.5198   | 0.0016 | 15.1050  | ND     | ND     | 71.5502   | 582.0000  |
| 9                                 | 8026      | 5/30/2008   | ND     | 0.0736 | ND    | ND    | ND   | 0.0027 | 0.0470 | ND     | ND   | 61.6701   | 0.0049 | 23.4799  | ND     | ND     | 85.4350   | 607.0000  |
| 10                                | 8027      | 5/30/2008   | 0.0031 | 0.0816 | ND    | ND    | ND   | 0.0027 | 0.0248 | ND     | ND   | 64.0134   | 0.0012 | 24.2783  | ND     | ND     | 86.3513   | 609.0000  |
| 11                                | 8028      | 5/30/2008   | 0.0034 | 0.0679 | ND    | ND    | ND   | 0.0022 | 0.0110 | ND     | ND   | 45.2264   | 0.0010 | 12.7238  | ND     | ND     | 77.0842   | 528.0000  |
| 12                                | 8029      | 5/30/2008   | 0.0031 | 0.0358 | ND    | ND    | ND   | 0.0007 | 0.0047 | 2.9822 | ND   | 38.7207   | ND     | ND       | ND     | ND     | 55.3462   | 260.0000  |
| 13                                | 8282      | 10/9/2008   | 0.0037 | 0.0330 | ND    | ND    | ND   | 0.0008 | 0.0246 | ND     | ND   | 21.1772   | ND     | ND       | ND     | ND     | 41.7426   | 371.0000  |
| 14                                | 8283      | 10/9/2008   | ND     | 0.0263 | ND    | ND    | ND   | 0.0007 | 0.0079 | ND     | ND   | 14.7599   | ND     | 12.2295  | ND     | ND     | 56.5648   | 364.0000  |
| 15                                | 8284      | 10/9/2008   | 0.0025 | 0.0174 | ND    | ND    | ND   | ND     | 0.0209 | ND     | ND   | 29.9788   | 0.0011 | ND       | ND     | ND     | 572.7397  | 1166.0000 |
| 16                                | 8285      | 10/9/2008   | 0.0023 | 0.0212 | ND    | ND    | ND   | ND     | 0.0207 | ND     | ND   | 36.0550   | 0.0016 | ND       | ND     | ND     | 699.3227  | 1436.0000 |
| 17                                | 8286      | 10/9/2008   | 0.0032 | 0.0169 | ND    | ND    | ND   | ND     | 0.0313 | ND     | ND   | 24.9856   | 0.0009 | ND       | ND     | ND     | 299.0387  | 779.0000  |
| 18                                | 8287      | 10/9/2008   | 0.0028 | 0.0158 | ND    | ND    | ND   | 0.0007 | 0.0090 | ND     | ND   | 25.0054   | 0.0008 | ND       | ND     | ND     | 353.0756  | 851.0000  |
| 19                                | 8288      | 10/9/2008   | 0.0028 | 0.0167 | ND    | ND    | ND   | ND     | 0.0076 | ND     | ND   | 25.0536   | 0.0007 | ND       | ND     | ND     | 306.5867  | 791.0000  |
| 20                                | 8289      | 10/9/2008   | ND     | 0.0214 | ND    | ND    | ND   | ND     | 0.0160 | ND     | ND   | 156.6872  | 0.0011 | ND       | ND     | ND     | 97.8629   | 798.0000  |
| 21                                | 8290      | 10/9/2008   | ND     | 0.0374 | ND    | ND    | ND   | 0.0007 | 0.0135 | ND     | ND   | 15.6246   | ND     | 13.9856  | ND     | ND     | 87.3019   | 403.0000  |
| 22                                | 8291      | 10/9/2008   | 0.0020 | 0.0221 | ND    | ND    | ND   | ND     | 0.0125 | ND     | ND   | 17.2391   | ND     | ND       | ND     | ND     | 41.3652   | 322.0000  |
| 23                                | 8292      | 10/9/2008   | 0.0075 | 0.0682 | ND    | ND    | ND   | 0.0010 | 0.0409 | ND     | ND   | 89.4331   | 0.0047 | ND       | 0.0014 | ND     | 92.0226   | 812.0000  |
| 24                                | 8293      | 10/9/2008   | 0.1374 | 0.0172 | ND    | ND    | ND   | ND     | 0.0042 | ND     | ND   | 1348.9260 | 0.0017 | ND       | ND     | ND     | 1292.4210 | 5061.0000 |
| 25                                | 8294      | 10/9/2008   | 0.0452 | 0.0519 | ND    | ND    | ND   | 0.0009 | 0.0402 | ND     | ND   | 602.2354  | 0.0010 | 18.8828  | ND     | ND     | 542.5757  | 2229.0000 |
| Test Count that Exceeded Standard |           |             | 3      | 0      | 0     | 0     | 0    | 0      | 0      | 0      | 0    | 0         | 0      | 1        | 0      | 0      | 5         | 3         |
| ND - Not Detected                 |           |             |        |        |       |       |      |        |        |        |      |           |        |          |        |        |           |           |

| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8018      | 5/30/2008   | ND         | ND         | 322.3328   | 0.0404     | ND        | 0.0137     | 855.0000     | 0.0042     | 8.0400  | 8.2408     | 246.0775    | 1513.0000   | 0.3891     |
| 2                                   | 8019      | 5/30/2008   | ND         | ND         | 13.6233    | 0.0324     | ND        | ND         | 419.0000     | ND         | 7.8600  | 16.0289    | 50.6204     | 542.0000    | ND         |
| 3                                   | 8020      | 5/30/2008   | ND         | ND         | 38.5484    | 0.0234     | ND        | ND         | 275.8000     | 0.0004     | 7.8800  | 19.9196    | 73.4487     | 523.0000    | 0.0106     |
| 4                                   | 8021      | 5/30/2008   | ND         | ND         | 29.5445    | 0.0161     | ND        | ND         | 384.0000     | 0.0005     | 7.8500  | 28.9106    | 101.3034    | 532.0000    | 0.0130     |
| 5                                   | 8022      | 5/30/2008   | ND         | ND         | 19.7577    | 0.0275     | ND        | ND         | 174.7000     | 0.0049     | 7.9900  | 10.6378    | 52.6118     | 307.0000    | 0.0051     |
| 6                                   | 8023      | 5/30/2008   | ND         | ND         | 17.0097    | 0.0310     | ND        | ND         | 230.8000     | ND         | 7.9900  | 8.0405     | 42.1970     | 318.0000    | 0.0136     |
| 7                                   | 8024      | 5/30/2008   | ND         | ND         | 689.3550   | 0.0119     | ND        | ND         | 801.4000     | 0.0003     | 7.5600  | 16.2836    | 1018.3460   | 2543.0000   | 0.0293     |
| 8                                   | 8025      | 5/30/2008   | ND         | ND         | 54.5870    | 0.0188     | ND        | ND         | 347.4000     | 0.0020     | 7.7400  | 16.6395    | 71.5502     | 582.0000    | 0.0299     |
| 9                                   | 8026      | 5/30/2008   | ND         | ND         | 75.4650    | 0.0470     | ND        | ND         | 390.5000     | 0.0086     | 7.8400  | 14.3959    | 85.4350     | 607.0000    | 0.1905     |
| 10                                  | 8027      | 5/30/2008   | ND         | ND         | 77.6544    | 0.0248     | ND        | ND         | 387.7000     | 0.0011     | 7.9600  | 15.3806    | 86.3513     | 609.0000    | 0.0139     |
| 11                                  | 8028      | 5/30/2008   | ND         | ND         | 43.8515    | 0.0110     | ND        | ND         | 360.9000     | ND         | 7.7800  | 14.5429    | 77.0842     | 528.0000    | ND         |
| 12                                  | 8029      | 5/30/2008   | ND         | ND         | ND         | 0.0047     | 2.9822    | ND         | 127.5000     | ND         | 7.8900  | 10.5882    | 55.3462     | 260.0000    | 0.0135     |
| 13                                  | 8282      | 10/9/2008   | ND         | ND         | 24.0709    | 0.0246     | ND        | ND         | 330.2000     | ND         | 7.8400  | 17.3643    | 41.7426     | 371.0000    | 0.0058     |
| 14                                  | 8283      | 10/9/2008   | ND         | ND         | 36.6884    | 0.0079     | ND        | 0.5331     | 312.9000     | ND         | 7.9200  | 15.5477    | 56.5648     | 364.0000    | 0.0115     |
| 15                                  | 8284      | 10/9/2008   | ND         | ND         | 44.4472    | 0.0209     | ND        | ND         | 949.6000     | ND         | 7.6300  | 17.2953    | 572.7397    | 1166.0000   | 0.0064     |
| 16                                  | 8285      | 10/9/2008   | ND         | ND         | 50.8860    | 0.0207     | ND        | ND         | 1275.7000    | ND         | 7.5700  | 18.5681    | 699.3227    | 1436.0000   | 0.0094     |
| 17                                  | 8286      | 10/9/2008   | ND         | ND         | 36.9508    | 0.0313     | ND        | ND         | 683.9000     | ND         | 7.9300  | 17.7386    | 299.0387    | 779.0000    | 0.0089     |
| 18                                  | 8287      | 10/9/2008   | ND         | ND         | 40.0920    | 0.0090     | ND        | ND         | 739.5000     | ND         | 7.7500  | 17.7451    | 353.0756    | 851.0000    | 0.0059     |
| 19                                  | 8288      | 10/9/2008   | ND         | ND         | 37.6256    | 0.0076     | ND        | 0.0176     | 698.2000     | ND         | 7.9500  | 18.1709    | 306.5867    | 791.0000    | 0.0041     |
| 20                                  | 8289      | 10/9/2008   | ND         | ND         | 113.8564   | 0.0160     | ND        | ND         | 580.1000     | 0.0274     | 7.9400  | 14.5682    | 97.8629     | 798.0000    | 0.0052     |
| 21                                  | 8290      | 10/9/2008   | ND         | ND         | 34.1849    | 0.0135     | ND        | ND         | 360.4000     | 0.0006     | 7.9200  | 14.9301    | 87.3019     | 403.0000    | 0.0912     |
| 22                                  | 8291      | 10/9/2008   | ND         | ND         | 17.4636    | 0.0125     | ND        | 0.0453     | 268.7000     | 0.0099     | 8.0800  | 13.7018    | 41.3652     | 322.0000    | 0.0059     |
| 23                                  | 8292      | 10/9/2008   | ND         | ND         | 23.1117    | 0.0409     | ND        | ND         | 634.1000     | 0.1238     | 7.7900  | 25.8915    | 92.0226     | 812.0000    | 0.0492     |
| 24                                  | 8293      | 10/9/2008   | ND         | ND         | 1882.3060  | 0.0042     | ND        | 0.6643     | 900.0000     | 1.4210     | 7.7600  | 28.4132    | 1292.4210   | 5061.0000   | 0.0081     |
| 25                                  | 8294      | 10/9/2008   | ND         | ND         | 622.4295   | 0.0402     | ND        | ND         | 426.5000     | 0.0111     | 7.8800  | 25.0392    | 542.5757    | 2229.0000   | 0.0199     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 4          | 0          | 1         | 2          | 25           | 2          | 0       | 0          | 8           | 25          | 0          |

ND - Not Detected












Map 27. Sevier County District

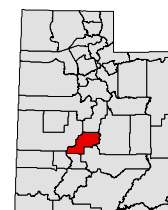


Map Scale 1:253,440 (1 inch = 4 miles)



- |   |                 |   |                     |
|---|-----------------|---|---------------------|
|  | Sample location |  | Intermittent stream |
|  | Road            |  | Water body          |
|  | Stream          |  | Irrigated cropland  |
|  | Ditch or canal  |  | District boundary   |
|  | Aqueduct        |   |                     |

District Location





## **UACD Zone 5 (Beaver, Iron, Kane, and Washington counties and most of Garfield County)**

One hundred and twenty-two (22) sites were sampled in four of the seven (7) Conservation Districts in Zone 5 during the spring, summer, and fall of 2008. These include the number of samples in the following districts: three (3) in Dixie, eight (8) in E and I, five (5) in Kane County, and six (6) in Upper Sevier districts.

The Statistical Report below shows a summary of the total number of chemical tests collected (Test Count) for each district in Zone 5. The next four columns summarize the number of tests which exceeded the standard for either Primary Drinking Water (DW Primary), Secondary Drinking Water (DW Secondary), Irrigation, or Livestock.

### **Ground Water UACD Zone No 5 Statistical Report For the Samples Collected Between: 1/1/2008 And 11/6/2008**

| District Name       | Sample Count | Test Count | Test Count Which Result Exceeded Standards |              |            |           |
|---------------------|--------------|------------|--|--------------|------------|-----------|
|                     |              |            | DW Primary                                 | DW Secondary | Irrigation | Livestock |
| Dixie               | 3            | 120        | 0  | 2            | 4          | 1         |
| E and I             | 8            | 320        | 2  | 13           | 18         | 2         |
| Kane County         | 5            | 200        | 4  | 17           | 25         | 7         |
| Upper Sevier        | 6            | 240        | 0  | 10           | 12         | 0         |
| <b>Zone Totals:</b> | <b>22</b>    | <b>880</b> | <b>6</b>                                   | <b>42</b>    | <b>59</b>  | <b>10</b> |

Detailed tables follow covering the above water quality categories - General, Irrigation, Livestock, and Culinary (which includes Primary Drinking Water Standards and Secondary Drinking Water Standards) for each district along with a map(s). For the Irrigation, Livestock, and Culinary tables the first row lists the explicit standard for each element or compound (column). The standards for irrigation and livestock originated from the Water quality for agriculture 29 Revision 1, published by the Food and Agriculture Organization of the United Nations. The drinking water primary and secondary standards are from the State of Utah's water quality standards. Below the standards are the column headings (expressed as the chemical abbreviation) for each element or compound tested. Units used in measuring the concentrations of each element or compound are found below each abbreviation. Each row of the table is a single sample identified with a sample number. This sample number shows the sampling location on the map(s) located after the chemistry tables. Highlighted sample results show samples that exceed a standard for that element or compound. Totals at the bottom of each table show how many samples in each column exceeded the standard for that column. The value "ND" indicates that a particular element or compound was "Not Detected" for a given sample.

**General:**

| Sample No                      | Collected Date | Coliform  | Ecoli | Temperature | EC                | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head | Material     | Casing Condition | Cullinary | Irrigation                          | Industrial                          | Landscape                | Natural                  | Drainage                            | Other                    |
|--------------------------------|----------------|-----------|-------|-------------|-------------------|----------|-----------|---------------|-------------|----------------|-----------|--------------|------------------|-----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| 1                              | 8001           | 5/21/2008 | ND    | ND          | 61.2 F (16.2 C)   | 116      | 76.00     | 0.100         | 45.70       | Spring         | Soil      | Pit Concrete | Steel            | Sealed    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 2                              | 8002           | 5/21/2008 | ND    | ND          | 62.4 F (16.9 C)   | 114      | 97.00     | 0.100         | 46.30       | Spring         | Soil      | Pit Concrete | PVC              | Open      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3                              | 8009           | 5/21/2008 | ND    | ND          | 65.8 F (18.8 C)   | 736      | 556.0     | 0.500         | 388.0       | Well           | Vegetated | Inside Shed  | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                |           | 0     | 0           | ND - Not Detected |          |           |               |             |                |           |              |                  |           |                                     |                                     |                          |                          |                                     |                          |

## Irrigation Standards

[illegible]

ND - Not Detected

| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8001      | 5/23/2008   | 0.0004     | 0.0011     | 1.5361     | ND         | ND         | ND          | 0.1000       | ND         | 76.0000     | ND        | 0.0125     |
| 2                                  | 8002      | 5/23/2008   | 0.0004     | 0.0010     | 1.8820     | ND         | ND         | ND          | 0.1000       | ND         | 97.0000     | ND        | ND         |
| 3                                  | 8009      | 5/23/2008   | 0.0007     | 0.0021     | 21.8673    | 0.0014     | ND         | ND          | 0.5000       | ND         | 556.0000    | 0.0043    | 0.6950     |
| Test Count that Exceeded Standard: |           |             | 0          | 0          | 0          | 0          | 0          | 0           | 0            | 0          | 1           | 0         | 0          |

ND - Not Detected

**Livestock:****Livestock Standards**

|                                   |           |             | 5    | 0.2    | 5      | .1   | 0.05 | 1    | 1      | .5     | 2    | 10   | 440  | .1   | 5.5-8.3 | .05  | 167;333  | 1000;3000; | 25     |
|-----------------------------------|-----------|-------------|------|--------|--------|------|------|------|--------|--------|------|------|------|------|---------|------|----------|------------|--------|
|                                   |           |             | Al   | As     | B      | Be   | Cd   | Co   | Cr     | Cu     | F    | Hg   | NO3  | Pb   | pH      | Se   | SO4      | TDS        | Zn     |
|                                   | Sample No | Tested Date | mg/L | mg/L   | mg/L   | mg/L | mg/L | mg/L | mg/L   | mg/L   | mg/L | ug/L | mg/L | mg/L | -       | mg/L | mg/L     | mg/L       | mg/L   |
| 1                                 | 8001      | 5/23/2008   | ND   | ND     | 0.0153 | ND   | ND   | ND   | 0.0007 | 0.0075 | ND   | ND   | ND   | ND   | 8.0800  | ND   | 4.7465   | 76.0000    | 0.0125 |
| 2                                 | 8002      | 5/23/2008   | ND   | ND     | 0.0131 | ND   | ND   | ND   | 0.0006 | 0.0049 | ND   | ND   | ND   | ND   | 6.6400  | ND   | 4.3267   | 97.0000    | ND     |
| 3                                 | 8009      | 5/23/2008   | ND   | 0.0022 | 0.0642 | ND   | ND   | ND   | 0.0007 | 0.0312 | ND   | ND   | ND   | ND   | 7.7100  | ND   | 244.8188 | 556.0000   | 0.6950 |
| Test Count that Exceeded Standard |           |             | 0    | 0      | 0      | 0    | 0    | 0    | 0      | 0      | 0    | 0    | 0    | 0    | 0       | 0    | 1        | 0          | 0      |

ND - Not Detected

**Culinary:****Drinking Water Primary Standards**

|                                   |           |             | 0.01   | 2      | 0.004 | 0.005 | 25   | 0.1    | 1.3    | 4    | 2    | 10000   | 1000   | 44.3 | .015 | .05  | 500      | 2000     |
|-----------------------------------|-----------|-------------|--------|--------|-------|-------|------|--------|--------|------|------|---------|--------|------|------|------|----------|----------|
|                                   |           |             | As     | Ba     | Be    | Cd    | ClO4 | Cr     | Cu     | F    | Hg   | Na      | Ni     | NO3  | Pb   | Se   | SO4      | TDS      |
|                                   | Sample No | Tested Date | mg/L   | mg/L   | mg/L  | mg/L  | ug/L | mg/L   | mg/L   | mg/L | ug/L | mg/L    | mg/L   | mg/L | mg/L | mg/L | mg/L     | mg/L     |
| 1                                 | 8001      | 5/23/2008   | ND     | 0.1081 | ND    | ND    | ND   | 0.0007 | 0.0075 | ND   | ND   | 1.5361  | ND     | ND   | ND   | ND   | 4.7465   | 76.0000  |
| 2                                 | 8002      | 5/23/2008   | ND     | 0.1091 | ND    | ND    | ND   | 0.0006 | 0.0049 | ND   | ND   | 1.8820  | ND     | ND   | ND   | ND   | 4.3267   | 97.0000  |
| 3                                 | 8009      | 5/23/2008   | 0.0022 | 0.0383 | ND    | ND    | ND   | 0.0007 | 0.0312 | ND   | ND   | 21.8673 | 0.0014 | ND   | ND   | ND   | 244.8188 | 556.0000 |
| Test Count that Exceeded Standard |           |             | 0      | 0      | 0     | 0     | 0    | 0      | 0      | 0    | 0    | 0       | 0      | 0    | 0    | 0    | 0        | 0        |

ND - Not Detected

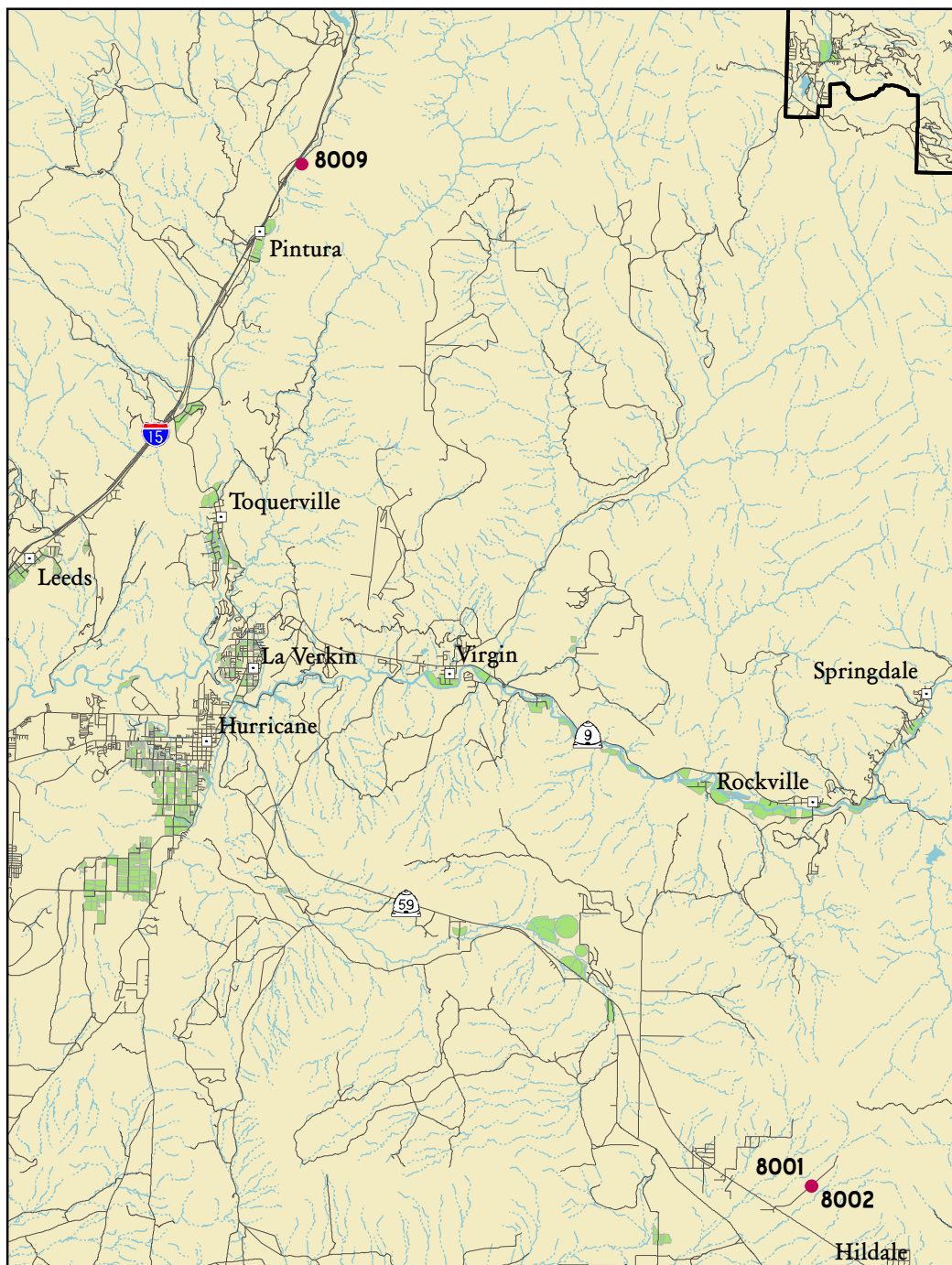
**Drinking Water Secondary Standards:**

|                                    |           |             | 0.1  | 0.5  | 250     | 1      | 2    | 0.3  | 60;120;180 | .05    | 6.5-8.5 | 1000    | 250      | 200      | 5      |
|------------------------------------|-----------|-------------|------|------|---------|--------|------|------|------------|--------|---------|---------|----------|----------|--------|
|                                    |           |             | Ag   | Al   | Cl      | Cu     | F    | Fe   | Hardnes    | Mn     | pH      | Si      | SO4      | TDS      | Zn     |
|                                    | Sample No | Tested Date | mg/L | mg/L | mg/L    | mg/L   | mg/L | mg/L | s          | mg/L   | -       | mg/L    | mg/L     | mg/L     | mg/L   |
| 1                                  | 8001      | 5/23/2008   | ND   | ND   | ND      | 0.0075 | ND   | ND   | 45.7000    | 0.0004 | 8.0800  | 5.0844  | 4.7465   | 76.0000  | 0.0125 |
| 2                                  | 8002      | 5/23/2008   | ND   | ND   | ND      | 0.0049 | ND   | ND   | 46.3000    | 0.0004 | 6.6400  | 5.1704  | 4.3267   | 97.0000  | ND     |
| 3                                  | 8009      | 5/23/2008   | ND   | ND   | 20.0292 | 0.0312 | ND   | ND   | 388.0000   | 0.0007 | 7.7100  | 17.7437 | 244.8188 | 556.0000 | 0.6950 |
| Test Count that Exceeded Standard: |           |             | 0    | 0    | 0       | 0      | 0    | 0    | 1          | 0      | 0       | 0       | 0        | 1        | 0      |

ND - Not Detected



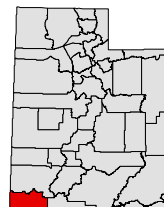
Map 28. Dixie District



Map Scale 1:253,440 (1 inch = 4 miles)



District Location



Sample location  
Road  
Stream  
Ditch or canal  
Aqueduct



Intermittent stream  
Water body  
Irrigated cropland  
District boundary

E & I District  
General:

General Sample Information

|                                | Sample No | Collected Date | Coliform | Ecoli | Temperature       | EC   | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site  | Site Condition | Well Head    | Material | Casing Condition | Cullinary                           | Irriga-tion                         | Indust-rial                         | Lands-cape               | Natural                  | Drai-nage                | Other                    |
|--------------------------------|-----------|----------------|----------|-------|-------------------|------|----------|-----------|---------------|--------------|----------------|--------------|----------|------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8010      | 5/21/2008      | ND       | ND    | 55.2 F (12.9 C)   | 1518 | 1338.0   | 1.000     | 793.3         | Well         | Vegetated      | Pit Concrete | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8011      | 5/21/2008      | ND       | ND    | 52.9 F (11.6 C)   | 253  | 181.0    | 1.000     | 85.80         | Well         | Native Veg.    | Well House   | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3                              | 8012      | 5/21/2008      | ND       | ND    | 53.8 F (12.1 C)   | 1202 | 749.0    | 0.800     | 521.3         | Well         | Soil           | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4                              | 8013      | 5/21/2008      | ND       | ND    | 56.8 F (13.8 C)   | 260  | 181.0    | 0.800     | 97.80         | Well         | Gravel         | Gravel       | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5                              | 8313      | 10/21/2008     | POS      | ND    | 52.7 F (11.5 C)   | 325  | 193.0    | 1.200     | 92.90         | Well         | Clay Soil      | Soil         | Steel    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6                              | 8314      | 10/21/2008     | POS      | ND    | 51.8 F (11.0 C)   | 249  | 155.0    | 1.000     | 77.80         | Flowing Well | Clean          | Soil         | PVC      | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7                              | 8315      | 10/21/2008     | POS      | ND    | 52.7 F (11.5 C)   | 294  | 184.0    | 1.000     | 97.40         | Flowing Well | Clean          | Soil         | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8                              | 8316      | 10/21/2008     | POS      | POS   | 55.2 F (12.9 C)   | 248  | 155.0    | 0.900     | 81.20         | Flowing Well | Clean          | Soil         | Steel    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |           |                | 4        | 1     | ND - Not Detected |      |          |           |               |              |                |              |          |                  |                                     |                                     |                                     |                          |                          |                          |                          |

Irrigation:

Irrigation Standards

|                                   | Sample No | Tested Date | 5 Al mg/L | 0.5;1.0;2.0; B mg/L | .1 Be mg/L | 100000 Ca mg/L | 71;355 Cl mg/L | 1 Co mg/L | 1000 CO3 mg/L | 1 Cr mg/L | 0.2 Cu mg/L | 2 F mg/L | 5 Fe mg/L | 73.2;152.5 HCO3 mg/L | 10000 K mg/L | 2.5 Li mg/L | 100000 Mg mg/L |
|-----------------------------------|-----------|-------------|-----------|---------------------|------------|----------------|----------------|-----------|---------------|-----------|-------------|----------|-----------|----------------------|--------------|-------------|----------------|
| 1                                 | 8010      | 5/23/2008   | ND        | 0.1077              | ND         | 164.6009       | 177.9904       | ND        | ND            | 0.0009    | 0.0087      | ND       | ND        | 251.6810             | 4.6816       | 0.0350      | 92.6708        |
| 2                                 | 8011      | 5/23/2008   | ND        | 0.0426              | ND         | 22.4975        | 21.7931        | ND        | ND            | 0.0006    | 0.0050      | 0.7307   | ND        | 132.5480             | 1.2099       | ND          | 7.1731         |
| 3                                 | 8012      | 5/23/2008   | ND        | 0.0554              | ND         | 146.3788       | 314.9762       | ND        | ND            | 0.0007    | 0.0068      | ND       | ND        | 126.8220             | 7.1106       | 0.0039      | 37.7108        |
| 4                                 | 8013      | 5/23/2008   | ND        | 0.0497              | ND         | 24.1675        | 17.0148        | ND        | ND            | 0.0008    | 0.0112      | ND       | ND        | 140.8010             | 3.6579       | ND          | 9.0742         |
| 5                                 | 8313      | 10/23/2008  | ND        | 0.0528              | ND         | 25.5453        | 15.3100        | ND        | ND            | 0.0008    | 0.0147      | ND       | 0.0244    | 162.9820             | 1.7023       | ND          | 7.0494         |
| 6                                 | 8314      | 10/23/2008  | ND        | 0.0416              | ND         | 20.5027        | 13.5512        | ND        | ND            | ND        | 0.0063      | ND       | 0.0772    | 120.9480             | 1.3570       | ND          | 6.4348         |
| 7                                 | 8315      | 10/23/2008  | ND        | 0.0454              | ND         | 26.4692        | 14.5173        | ND        | ND            | 0.0009    | 0.0212      | ND       | ND        | 149.5780             | 1.8084       | ND          | 7.5887         |
| 8                                 | 8316      | 10/23/2008  | ND        | 0.0377              | ND         | 21.3284        | 12.9764        | ND        | ND            | ND        | 0.0163      | ND       | 0.0459    | 123.5160             | 2.6143       | ND          | 6.7787         |
| Test Count that Exceeded Standard |           |             | 0         | 0                   | 0          | 0              | 2              | 0         | 0             | 0         | 0           | 0        | 0         | 8                    | 0            | 0           | 0              |

ND - Not Detected

Irrigation Standards Continues

|                                    | Sample No | Tested Date | .2 Mn mg/L | .01 Mo mg/L | 70;230 Na mg/L | .2 Ni mg/L | 5 Pb mg/L | 10000 PO4 mg/L | 3;9 SAR meq/L | .02 Se mg/L | 151;451;13 TDS mg/L | .1 V mg/L | 2 Zn mg/L |
|------------------------------------|-----------|-------------|------------|-------------|----------------|------------|-----------|----------------|---------------|-------------|---------------------|-----------|-----------|
| 1                                  | 8001      | 5/23/2008   | 0.0004     | 0.0011      | 1.5361         | ND         | ND        | ND             | 0.1000        | ND          | 76.0000             | ND        | 0.0125    |
| 2                                  | 8002      | 5/23/2008   | 0.0004     | 0.0010      | 1.8820         | ND         | ND        | ND             | 0.1000        | ND          | 97.0000             | ND        | ND        |
| 3                                  | 8009      | 5/23/2008   | 0.0007     | 0.0021      | 21.8673        | 0.0014     | ND        | ND             | 0.5000        | ND          | 556.0000            | 0.0043    | 0.6950    |
| Test Count that Exceeded Standard: |           |             | 0          | 0           | 0              | 0          | 0         | 0              | 0             | 0           | 1                   | 0         | 0         |

ND - Not Detected



**Livestock:**

| Livestock Standards               |             |            | 5    | 0.2    | 5      | .1   | 0.05 | 1    | 1      | .5     | 2      | 10   | 440     | .1   | 5.5-8.3 | .05    | 167;333  | 1000;3000; | 25     |
|-----------------------------------|-------------|------------|------|--------|--------|------|------|------|--------|--------|--------|------|---------|------|---------|--------|----------|------------|--------|
|                                   |             |            | Al   | As     | B      | Be   | Cd   | Co   | Cr     | Cu     | F      | Hg   | NO3     | Pb   | pH      | Se     | SO4      | TDS        | Zn     |
| Sample No                         | Tested Date |            | mg/L | mg/L   | mg/L   | mg/L | mg/L | mg/L | mg/L   | mg/L   | mg/L   | ug/L | mg/L    | mg/L | -       | mg/L   | mg/L     | mg/L       | mg/L   |
| 1                                 | 8010        | 5/23/2008  | ND   | 0.0028 | 0.1077 | ND   | ND   | ND   | 0.0009 | 0.0087 | ND     | ND   | 99.4371 | ND   | 7.8800  | ND     | 592.2352 | 1338.0000  | 0.0123 |
| 2                                 | 8011        | 5/23/2008  | ND   | 0.0041 | 0.0426 | ND   | ND   | ND   | 0.0006 | 0.0050 | 0.7307 | ND   | ND      | ND   | 7.8700  | ND     | 15.2947  | 181.0000   | ND     |
| 3                                 | 8012        | 5/23/2008  | ND   | 0.0022 | 0.0554 | ND   | ND   | ND   | 0.0007 | 0.0068 | ND     | ND   | 15.3945 | ND   | 7.7100  | 0.0060 | 99.0917  | 749.0000   | 0.0062 |
| 4                                 | 8013        | 5/23/2008  | ND   | 0.0045 | 0.0497 | ND   | ND   | ND   | 0.0008 | 0.0112 | ND     | ND   | ND      | ND   | 7.9700  | ND     | 10.8156  | 181.0000   | 0.0023 |
| 5                                 | 8313        | 10/23/2008 | ND   | 0.0032 | 0.0528 | ND   | ND   | ND   | 0.0008 | 0.0147 | ND     | ND   | ND      | ND   | 8.0600  | ND     | ND       | 193.0000   | 0.0023 |
| 6                                 | 8314        | 10/23/2008 | ND   | 0.0027 | 0.0416 | ND   | ND   | ND   | ND     | 0.0063 | ND     | ND   | ND      | ND   | 7.7200  | ND     | ND       | 155.0000   | ND     |
| 7                                 | 8315        | 10/23/2008 | ND   | 0.0030 | 0.0454 | ND   | ND   | ND   | 0.0009 | 0.0212 | ND     | ND   | ND      | ND   | 7.8100  | ND     | ND       | 184.0000   | 0.0033 |
| 8                                 | 8316        | 10/23/2008 | ND   | 0.0038 | 0.0377 | ND   | ND   | ND   | ND     | 0.0163 | ND     | ND   | ND      | ND   | 7.7500  | ND     | ND       | 155.0000   | 0.0053 |
| Test Count that Exceeded Standard |             |            | 0    | 0      | 0      | 0    | 0    | 0    | 0      | 0      | 0      | 0    | 0       | 0    | 0       | 0      | 1        | 1          | 0      |

ND - Not Detected

**Culinary:**

| Drinking Water Primary Standard:  |             |            | 0.01   | 2      | 0.004 | 0.005 | 25   | 0.1    | 1.3    | 4      | 2    | 10000   | 1000   | 44.3    | .015 | .05    | 500      | 2000      |
|-----------------------------------|-------------|------------|--------|--------|-------|-------|------|--------|--------|--------|------|---------|--------|---------|------|--------|----------|-----------|
|                                   |             |            | As     | Ba     | Be    | Cd    | ClO4 | Cr     | Cu     | F      | Hg   | Na      | Ni     | NO3     | Pb   | Se     | SO4      | TDS       |
| Sample No                         | Tested Date |            | mg/L   | mg/L   | mg/L  | mg/L  | ug/L | mg/L   | mg/L   | mg/L   | ug/L | mg/L    | mg/L   | mg/L    | mg/L | mg/L   | mg/L     | mg/L      |
| 1                                 | 8010        | 5/23/2008  | 0.0028 | 0.0134 | ND    | ND    | ND   | 0.0009 | 0.0087 | ND     | ND   | 65.9050 | 0.0021 | 99.4371 | ND   | ND     | 592.2352 | 1338.0000 |
| 2                                 | 8011        | 5/23/2008  | 0.0041 | 0.0023 | ND    | ND    | ND   | 0.0006 | 0.0050 | 0.7307 | ND   | 21.4068 | ND     | ND      | ND   | ND     | 15.2947  | 181.0000  |
| 3                                 | 8012        | 5/23/2008  | 0.0022 | 0.0075 | ND    | ND    | ND   | 0.0007 | 0.0068 | ND     | ND   | 42.4760 | 0.0011 | 15.3945 | ND   | 0.0060 | 99.0917  | 749.0000  |
| 4                                 | 8013        | 5/23/2008  | 0.0045 | 0.0019 | ND    | ND    | ND   | 0.0008 | 0.0112 | ND     | ND   | 17.6741 | ND     | ND      | ND   | ND     | 10.8156  | 181.0000  |
| 5                                 | 8313        | 10/23/2008 | 0.0032 | 0.0031 | ND    | ND    | ND   | 0.0008 | 0.0147 | ND     | ND   | 26.3795 | ND     | ND      | ND   | ND     | ND       | 193.0000  |
| 6                                 | 8314        | 10/23/2008 | 0.0027 | 0.0019 | ND    | ND    | ND   | ND     | 0.0063 | ND     | ND   | 20.2873 | ND     | ND      | ND   | ND     | ND       | 155.0000  |
| 7                                 | 8315        | 10/23/2008 | 0.0030 | 0.0030 | ND    | ND    | ND   | 0.0009 | 0.0212 | ND     | ND   | 22.7757 | ND     | ND      | ND   | ND     | ND       | 184.0000  |
| 8                                 | 8316        | 10/23/2008 | 0.0038 | 0.0031 | ND    | ND    | ND   | ND     | 0.0163 | ND     | ND   | 18.4643 | ND     | ND      | ND   | ND     | ND       | 155.0000  |
| Test Count that Exceeded Standard |             |            | 0      | 0      | 0     | 0     | 0    | 0      | 0      | 0      | 0    | 0       | 0      | 1       | 0    | 0      | 1        | 0         |

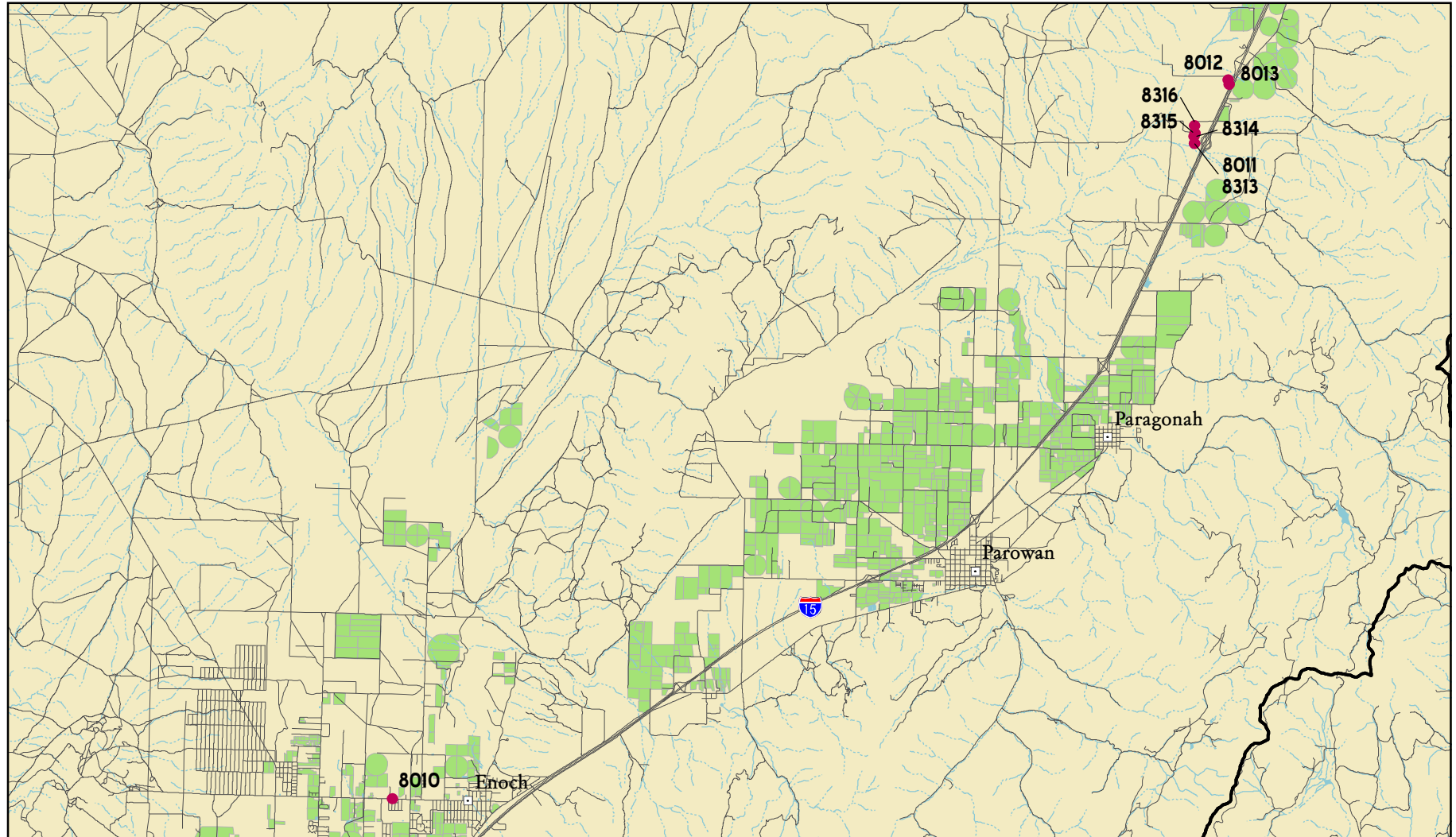
ND - Not Detected

| Drinking Water Secondary Standards: |             |            | 0.1  | 0.5  | 250      | 1      | 2      | 0.3    | 60;120;180 | .05    | 6.5-8.5 | 1000    | 250      | 200       | 5      |
|-------------------------------------|-------------|------------|------|------|----------|--------|--------|--------|------------|--------|---------|---------|----------|-----------|--------|
|                                     |             |            | Ag   | Al   | Cl       | Cu     | F      | Fe     | Hardnes    | Mn     | pH      | Si      | SO4      | TDS       | Zn     |
| Sample No                           | Tested Date |            | mg/L | mg/L | mg/L     | mg/L   | mg/L   | mg/L   | s          | mg/L   | -       | mg/L    | mg/L     | mg/L      | mg/L   |
| 1                                   | 8010        | 5/23/2008  | ND   | ND   | 177.9904 | 0.0087 | ND     | ND     | 793.3000   | 0.0003 | 7.8800  | 15.9143 | 592.2352 | 1338.0000 | 0.0123 |
| 2                                   | 8011        | 5/23/2008  | ND   | ND   | 21.7931  | 0.0050 | 0.7307 | ND     | 85.8000    | 0.0008 | 7.8700  | 22.8952 | 15.2947  | 181.0000  | ND     |
| 3                                   | 8012        | 5/23/2008  | ND   | ND   | 314.9762 | 0.0068 | ND     | ND     | 521.3000   | ND     | 7.7100  | 23.5010 | 99.0917  | 749.0000  | 0.0062 |
| 4                                   | 8013        | 5/23/2008  | ND   | ND   | 17.0148  | 0.0112 | ND     | ND     | 97.8000    | 0.0006 | 7.9700  | 25.2338 | 10.8156  | 181.0000  | 0.0023 |
| 5                                   | 8313        | 10/23/2008 | ND   | ND   | 15.3100  | 0.0147 | ND     | 0.0244 | 92.9000    | 0.1280 | 8.0600  | 19.9719 | ND       | 193.0000  | 0.0023 |
| 6                                   | 8314        | 10/23/2008 | ND   | ND   | 13.5512  | 0.0063 | ND     | 0.0772 | 77.8000    | 0.0060 | 7.7200  | 19.9020 | ND       | 155.0000  | ND     |
| 7                                   | 8315        | 10/23/2008 | ND   | ND   | 14.5173  | 0.0212 | ND     | ND     | 97.4000    | 0.0013 | 7.8100  | 21.4062 | ND       | 184.0000  | 0.0033 |
| 8                                   | 8316        | 10/23/2008 | ND   | ND   | 12.9764  | 0.0163 | ND     | 0.0459 | 81.2000    | 0.0030 | 7.7500  | 18.3929 | ND       | 155.0000  | 0.0053 |
| Test Count that Exceeded Standard:  |             |            | 0    | 0    | 1        | 0      | 0      | 0      | 8          | 1      | 0       | 0       | 1        | 2         | 0      |

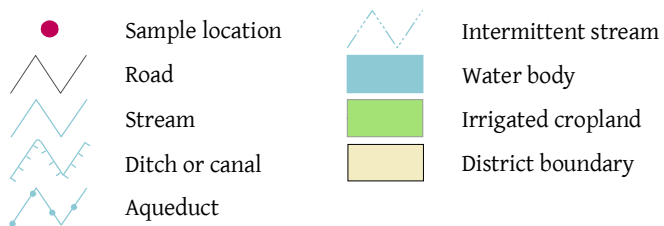
ND - Not Detected



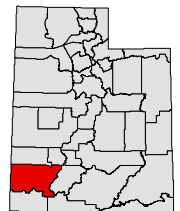
Map 29. E and I District



Map Scale 1:215,000 (1 inch = 3.4 miles)



District Location



**General:**

|   | Sample No | Collected Date | Coliform | Ecoli | Temperature     | EC   | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head        | Material | Casing Condition | Cullinary                           | Irrigation                          | Industrial               | Landscap                 | Natural                  | Drainage                 | Other                    |
|---|-----------|----------------|----------|-------|-----------------|------|----------|-----------|---------------|-------------|----------------|------------------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 8004      | 5/21/2008      | ND       | ND    | 56.3 F (13.5 C) | 1145 | 762.0    | 2.800     | 374.6         | Well        | Vegetated      | Pit Concrete     | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | 8005      | 5/21/2008      | ND       | ND    | 57.7 F (14.3 C) | 1105 | 658.0    | 3.000     | 299.6         | Well        | Vegetated      | Soil             | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | 8006      | 5/21/2008      | ND       | ND    | 58.6 F (14.8 C) | 2400 | 1919.    | 1.900     | 1063.         | Well        | Soil           | Soil             | Steel    | Sealed           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | 8007      | 5/21/2008      | ND       | ND    | 57.9 F (14.4 C) | 3550 | 1614.    | 2.800     | 1368.         | Well        | Concrete       | Well House       | Steel    | Sealed           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | 8008      | 5/21/2008      | ND       | ND    | 66.4 F (19.1 C) | 3160 | 2551.    | 3.000     | 1197.         | Well        | Gravel         | Pit Cinder Block | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**Irrigation:**

[illegible]

## Irrigation Standards Continues

| Irrigation Standards Continues     |           |             | .2<br>Mn<br>mg/L | .01<br>Mo<br>mg/L | 70;230<br>Na<br>mg/L | .2<br>Ni<br>mg/L | 5<br>Pb<br>mg/L | 10000<br>PO4<br>mg/L | 3;9<br>SAR<br>meq/L | .02<br>Se<br>mg/L | 151;451;13<br>TDS<br>mg/L | .1<br>V<br>mg/L | 2<br>Zn<br>mg/L |
|------------------------------------|-----------|-------------|------------------|-------------------|----------------------|------------------|-----------------|----------------------|---------------------|-------------------|---------------------------|-----------------|-----------------|
|                                    | Sample No | Tested Date |                  |                   |                      |                  |                 |                      |                     |                   |                           |                 |                 |
| 1                                  | 8004      | 5/23/2008   | 0.0584           | 0.0043            | 123.8402             | 0.0011           | ND              | ND                   | 2.8000              | ND                | 762.0000                  | ND              | 0.0699          |
| 2                                  | 8005      | 5/23/2008   | 0.0366           | 0.0044            | 119.1847             | 0.0009           | ND              | ND                   | 3.0000              | ND                | 658.0000                  | ND              | 0.0060          |
| 3                                  | 8006      | 5/23/2008   | 0.6379           | 0.0033            | 143.7653             | 0.0025           | ND              | ND                   | 1.9000              | ND                | 1919.0000                 | ND              | 0.0115          |
| 4                                  | 8007      | 5/23/2008   | 0.1940           | 0.0084            | 233.9957             | 0.0023           | ND              | ND                   | 2.8000              | 0.0514            | 1614.0000                 | ND              | 0.0142          |
| 5                                  | 8008      | 5/23/2008   | 0.0154           | 0.0430            | 235.1386             | 0.0048           | ND              | ND                   | 3.0000              | 0.0225            | 2551.0000                 | ND              | 0.0883          |
| Test Count that Exceeded Standard: |           |             | 1                | 1                 | 5                    | 0                | 0               | 0                    | 2                   | 2                 | 5                         | 0               | 0               |

ND - Not Detected

**Livestock:**

| Livestock Standards               |      |           | 5    | 0.2    | 5      | .1   | 0.05   | 1      | 1      | .5     | 2      | 10   | 440     | .1   | 5.5-8.3 | .05    | 167;333   | 1000;3000; | 25     |
|-----------------------------------|------|-----------|------|--------|--------|------|--------|--------|--------|--------|--------|------|---------|------|---------|--------|-----------|------------|--------|
|                                   |      |           | Al   | As     | B      | Be   | Cd     | Co     | Cr     | Cu     | F      | Hg   | NO3     | Pb   | pH      | Se     | SO4       | TDS        | Zn     |
|                                   |      |           | mg/L | mg/L   | mg/L   | mg/L | mg/L   | mg/L   | mg/L   | mg/L   | mg/L   | ug/L | mg/L    | mg/L | -       | mg/L   | mg/L      | mg/L       | mg/L   |
| 1                                 | 8004 | 5/23/2008 | ND   | ND     | 0.4685 | ND   | ND     | ND     | 0.0036 | 0.0142 | 0.7747 | ND   | ND      | ND   | 7.8900  | ND     | 228.7716  | 762.0000   | 0.0699 |
| 2                                 | 8005 | 5/23/2008 | ND   | ND     | 0.3579 | ND   | ND     | ND     | 0.0028 | 0.0134 | 0.9081 | ND   | ND      | ND   | 8.0300  | ND     | 164.4543  | 658.0000   | 0.0060 |
| 3                                 | 8006 | 5/23/2008 | ND   | ND     | 0.3342 | ND   | ND     | 0.0010 | 0.0026 | 0.0095 | 0.9106 | ND   | ND      | ND   | 7.6000  | ND     | 1001.1300 | 1919.0000  | 0.0115 |
| 4                                 | 8007 | 5/23/2008 | ND   | ND     | 0.7901 | ND   | ND     | 0.0009 | 0.0040 | 0.0202 | 0.8307 | ND   | 8.7902  | ND   | 7.7000  | 0.0514 | ND        | 1614.0000  | 0.0142 |
| 5                                 | 8008 | 5/23/2008 | ND   | 0.0059 | 0.4844 | ND   | 0.0016 | 0.0010 | 0.0007 | 0.0739 | 0.9285 | ND   | 21.0598 | ND   | 7.3300  | 0.0225 | 1274.1480 | 2551.0000  | 0.0883 |
| Test Count that Exceeded Standard |      |           | 0    | 0      | 0      | 0    | 0      | 0      | 0      | 0      | 0      | 0    | 0       | 0    | 0       | 1      | 3         | 3          | 0      |

ND - Not Detected

**Culinary:**

| Drinking Water Primary Standards  |      |           | 0.01   | 2      | 0.004 | 0.005  | 25   | 0.1    | 1.3    | 4      | 2    | 10000    | 1000   | 44.3    | .015 | .05    | 500       | 2000      |
|-----------------------------------|------|-----------|--------|--------|-------|--------|------|--------|--------|--------|------|----------|--------|---------|------|--------|-----------|-----------|
|                                   |      |           | As     | Ba     | Be    | Cd     | ClO4 | Cr     | Cu     | F      | Hg   | Na       | Ni     | NO3     | Pb   | Se     | SO4       | TDS       |
|                                   |      |           | mg/L   | mg/L   | mg/L  | mg/L   | ug/L | mg/L   | mg/L   | mg/L   | ug/L | mg/L     | mg/L   | mg/L    | mg/L | mg/L   | mg/L      | mg/L      |
| 1                                 | 8004 | 5/23/2008 | ND     | 0.0407 | ND    | ND     | ND   | 0.0036 | 0.0142 | 0.7747 | ND   | 123.8402 | 0.0011 | ND      | ND   | ND     | 228.7716  | 762.0000  |
| 2                                 | 8005 | 5/23/2008 | ND     | 0.0497 | ND    | ND     | ND   | 0.0028 | 0.0134 | 0.9081 | ND   | 119.1847 | 0.0009 | ND      | ND   | ND     | 164.4543  | 658.0000  |
| 3                                 | 8006 | 5/23/2008 | ND     | 0.0180 | ND    | ND     | ND   | 0.0026 | 0.0095 | 0.9106 | ND   | 143.7653 | 0.0025 | ND      | ND   | ND     | 1001.1300 | 1919.0000 |
| 4                                 | 8007 | 5/23/2008 | ND     | 0.0239 | ND    | ND     | ND   | 0.0040 | 0.0202 | 0.8307 | ND   | 233.9957 | 0.0023 | 8.7902  | ND   | 0.0514 | ND        | 1614.0000 |
| 5                                 | 8008 | 5/23/2008 | 0.0059 | 0.0230 | ND    | 0.0016 | ND   | 0.0007 | 0.0739 | 0.9285 | ND   | 235.1386 | 0.0048 | 21.0598 | ND   | 0.0225 | 1274.1480 | 2551.0000 |
| Test Count that Exceeded Standard |      |           | 0      | 0      | 0     | 0      | 0    | 0      | 0      | 0      | 0    | 0        | 0      | 0       | 0    | 1      | 2         | 1         |

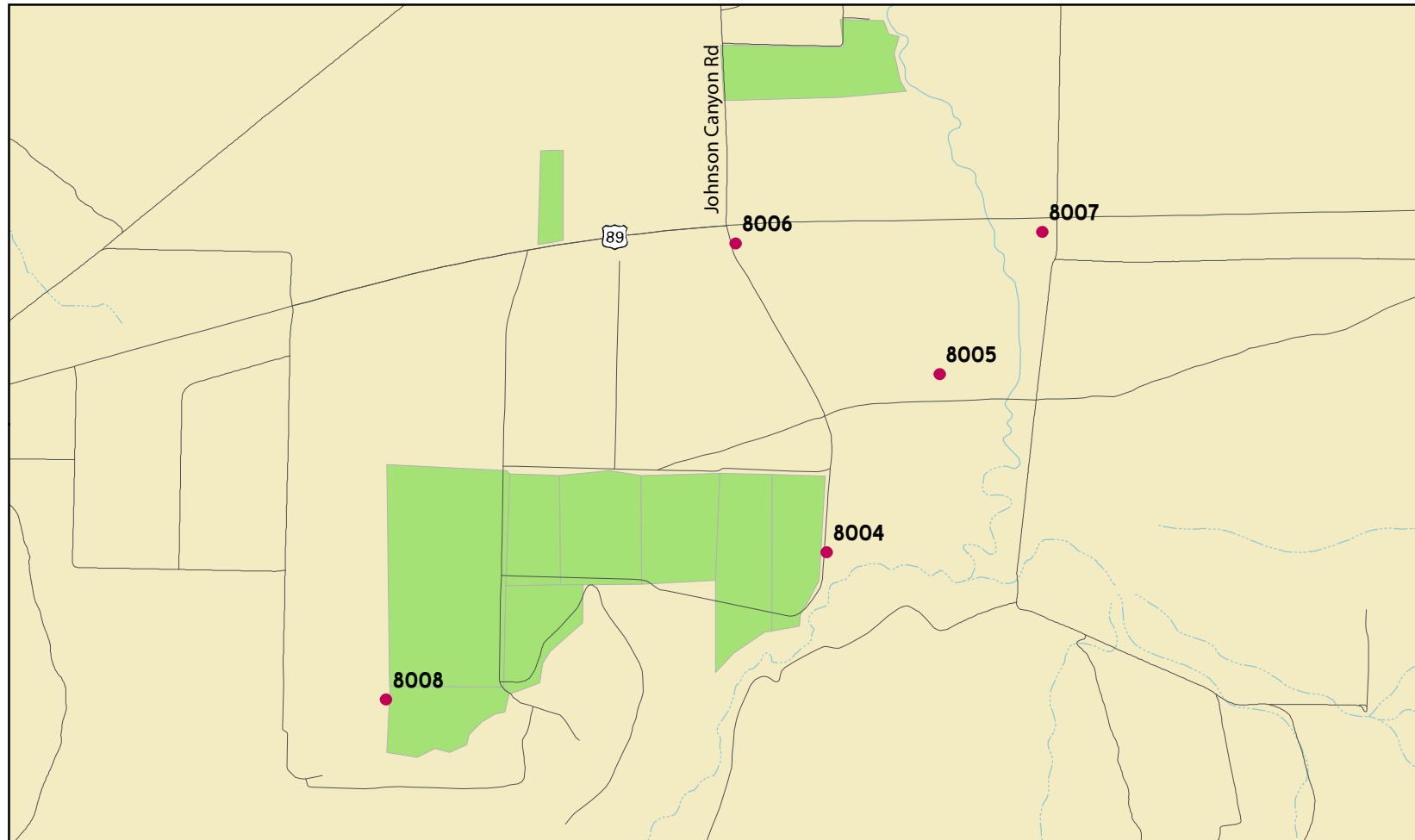
ND - Not Detected

| Drinking Water Secondary Standards: |      |           | 0.1  | 0.5  | 250      | 1      | 2      | 0.3    | 60;120;180 | .05    | 6.5-8.5 | 1000   | 250       | 200       | 5      |
|-------------------------------------|------|-----------|------|------|----------|--------|--------|--------|------------|--------|---------|--------|-----------|-----------|--------|
|                                     |      |           | Ag   | Al   | Cl       | Cu     | F      | Fe     | Hardnes    | Mn     | pH      | Si     | SO4       | TDS       | Zn     |
|                                     |      |           | mg/L | mg/L | mg/L     | mg/L   | mg/L   | mg/L   | s          | mg/L   | -       | mg/L   | mg/L      | mg/L      | mg/L   |
| 1                                   | 8004 | 5/23/2008 | ND   | ND   | 49.2456  | 0.0142 | 0.7747 | ND     | 374.6000   | 0.0584 | 7.8900  | 6.6032 | 228.7716  | 762.0000  | 0.0699 |
| 2                                   | 8005 | 5/23/2008 | ND   | ND   | 57.5649  | 0.0134 | 0.9081 | 0.0167 | 299.6000   | 0.0366 | 8.0300  | 6.7196 | 164.4543  | 658.0000  | 0.0060 |
| 3                                   | 8006 | 5/23/2008 | ND   | ND   | 179.1448 | 0.0095 | 0.9106 | 0.0514 | 1063.2000  | 0.6379 | 7.6000  | 7.5121 | 1001.1300 | 1919.0000 | 0.0115 |
| 4                                   | 8007 | 5/23/2008 | ND   | ND   | 647.5037 | 0.0202 | 0.8307 | ND     | 1368.3000  | 0.1940 | 7.7000  | 6.7575 | ND        | 1614.0000 | 0.0142 |
| 5                                   | 8008 | 5/23/2008 | ND   | ND   | 473.0008 | 0.0739 | 0.9285 | ND     | 1197.9000  | 0.0154 | 7.3300  | 8.7529 | 1274.1480 | 2551.0000 | 0.0883 |
| Test Count that Exceeded Standard:  |      |           | 0    | 0    | 2        | 0      | 0      | 0      | 5          | 3      | 0       | 0      | 2         | 5         | 0      |

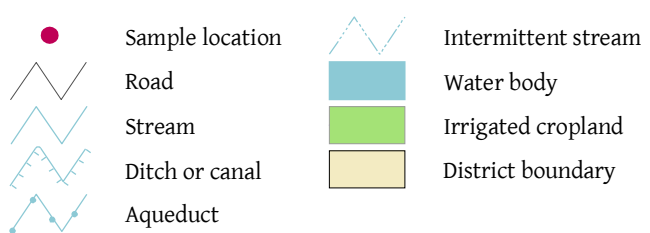
ND - Not Detected



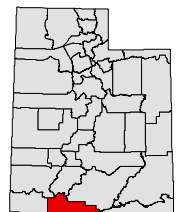
Map 30. Kane County District



Map Scale 1:24,000 (1 inch = 0.4 miles)



District Location



| Irrigation Standards Continues     |           |             | .2         | .01        | 70;230     | .2         | 5          | 10000       | 3;9          | .02        | 151;451;13  | .1        | 2          |
|------------------------------------|-----------|-------------|------------|------------|------------|------------|------------|-------------|--------------|------------|-------------|-----------|------------|
|                                    | Sample No | Tested Date | Mn<br>mg/L | Mo<br>mg/L | Na<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L | SAR<br>meq/L | Se<br>mg/L | TDS<br>mg/L | V<br>mg/L | Zn<br>mg/L |
| 1                                  | 8296      | 10/16/2008  | 0.0003     | ND         | 6.5703     | 0.0108     | ND         | ND          | 0.3000       | ND         | 153.0000    | 0.0020    | 0.0130     |
| 2                                  | 8297      | 10/16/2008  | 0.0031     | ND         | 11.0685    | 0.0019     | ND         | ND          | 0.3000       | ND         | 248.0000    | 0.0056    | 1.8050     |
| 3                                  | 8298      | 10/16/2008  | 0.0004     | 0.0005     | 6.6844     | ND         | ND         | ND          | 0.3000       | ND         | 159.0000    | 0.0034    | 0.0154     |
| 4                                  | 8299      | 10/16/2008  | 0.0173     | ND         | 48.5799    | 0.0009     | ND         | ND          | 1.3000       | ND         | 384.0000    | 0.0036    | 0.0214     |
| 5                                  | 8301      | 10/16/2008  | 0.0020     | 0.0023     | 16.8132    | ND         | ND         | ND          | 0.4000       | ND         | 245.0000    | 0.0024    | 0.0043     |
| 6                                  | 8302      | 10/16/2008  | 0.0159     | 0.0020     | 14.6116    | ND         | ND         | ND          | 0.4000       | ND         | 244.0000    | ND        | 0.0633     |
| Test Count that Exceeded Standard: |           |             | 0          | 0          | 0          | 0          | 0          | 0           | 0            | 0          | 6           | 0         | 0          |
| ND - Not Detected                  |           |             |            |            |            |            |            |             |              |            |             |           |            |

## Livestock:

| Livestock Standards               |           |             | 5          | 0.2        | 5         | .1         | 0.05       | 1          | 1          | .5         | 2         | 10         | 440         | .1         | 5.5-8.3 | .05        | 167;333     | 1000;3000;  | 25         |
|-----------------------------------|-----------|-------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                 | 8296      | 10/16/2008  | ND         | ND         | 0.0204    | ND         | ND         | ND         | ND         | 0.0250     | ND        | ND         | ND          | ND         | 7.7400  | ND         | ND          | 153.0000    | 0.0130     |
| 2                                 | 8297      | 10/16/2008  | ND         | ND         | 0.0277    | ND         | ND         | ND         | ND         | 0.0917     | ND        | ND         | ND          | ND         | 7.6100  | ND         | ND          | 248.0000    | 1.8050     |
| 3                                 | 8298      | 10/16/2008  | ND         | ND         | 0.0189    | ND         | ND         | ND         | 0.0005     | 0.0147     | ND        | ND         | ND          | ND         | 7.3100  | ND         | ND          | 159.0000    | 0.0154     |
| 4                                 | 8299      | 10/16/2008  | ND         | ND         | 0.0436    | ND         | ND         | ND         | 0.0012     | 0.0246     | ND        | ND         | ND          | ND         | 7.8900  | ND         | 13.1138     | 384.0000    | 0.0214     |
| 5                                 | 8301      | 10/16/2008  | ND         | 0.0024     | 0.0178    | ND         | ND         | ND         | 0.0009     | 0.0095     | ND        | ND         | ND          | ND         | 7.5500  | ND         | 17.0385     | 245.0000    | 0.0043     |
| 6                                 | 8302      | 10/16/2008  | ND         | ND         | 0.0165    | ND         | ND         | ND         | ND         | 0.0053     | ND        | ND         | ND          | ND         | 7.8600  | ND         | 35.3969     | 244.0000    | 0.0633     |
| Test Count that Exceeded Standard |           |             | 0          | 0          | 0         | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0           | 0          | 0       | 0          | 0           | 0           | 0          |
| ND - Not Detected                 |           |             |            |            |           |            |            |            |            |            |           |            |             |            |         |            |             |             |            |

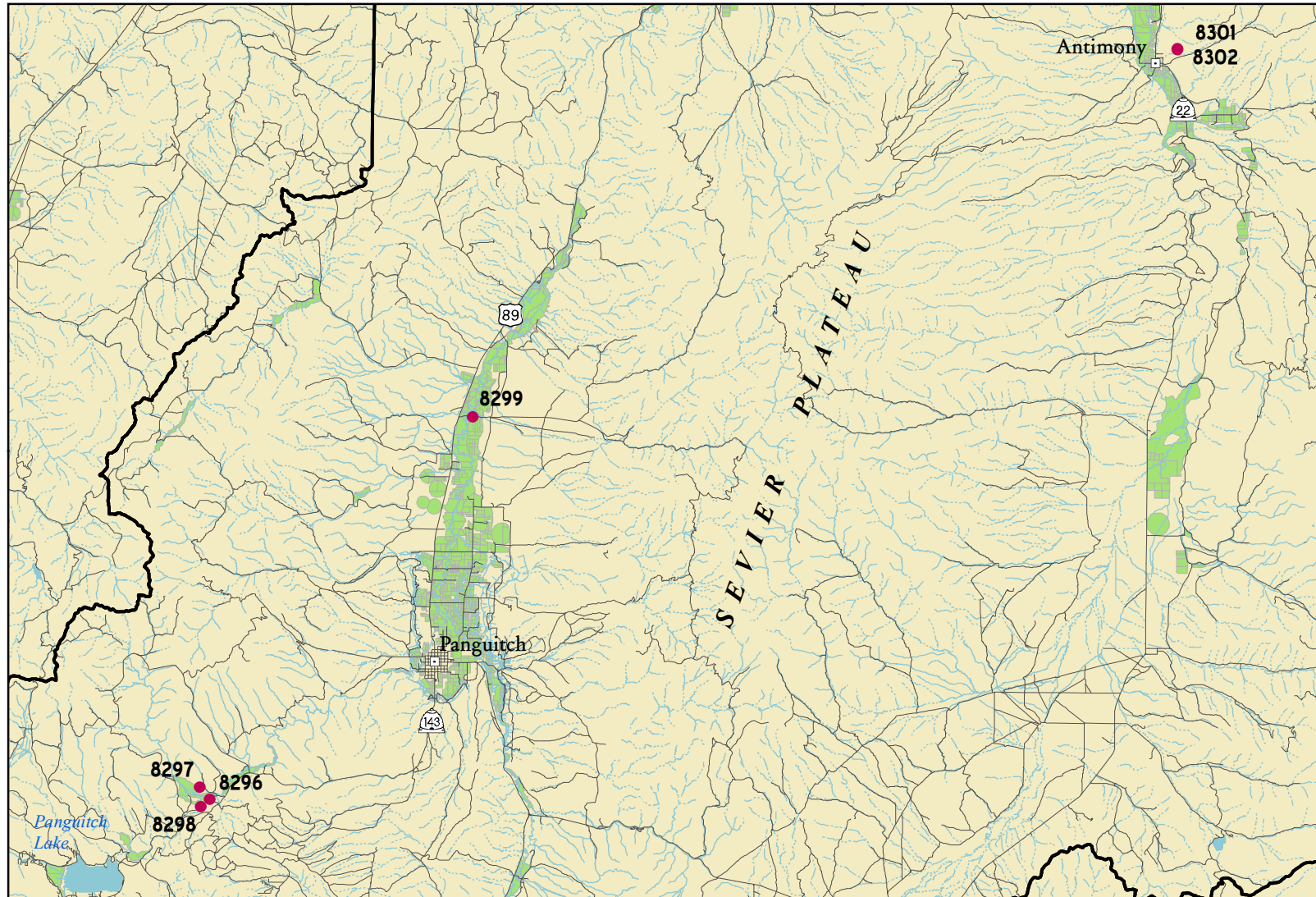
### Culinary:

| Drinking Water Primary Standard   |             |            | 0.01<br>As<br>mg/L | 2<br>Ba<br>mg/L | 0.004<br>Be<br>mg/L | 0.005<br>Cd<br>mg/L | 25<br>ClO4<br>ug/L | 0.1<br>Cr<br>mg/L | 1.3<br>Cu<br>mg/L | 4<br>F<br>mg/L | 2<br>Hg<br>ug/L | 10000<br>Na<br>mg/L | 1000<br>Ni<br>mg/L | 44.3<br>NO3<br>mg/L | .015<br>Pb<br>mg/L | .05<br>Se<br>mg/L | 500<br>SO4<br>mg/L | 2000<br>TDS<br>mg/L |
|-----------------------------------|-------------|------------|--------------------|-----------------|---------------------|---------------------|--------------------|-------------------|-------------------|----------------|-----------------|---------------------|--------------------|---------------------|--------------------|-------------------|--------------------|---------------------|
| Sample No                         | Tested Date |            |                    |                 |                     |                     |                    |                   |                   |                |                 |                     |                    |                     |                    |                   |                    |                     |
| 1                                 | 8296        | 10/16/2008 | ND                 | 0.0096          | ND                  | ND                  | ND                 | ND                | 0.0250            | ND             | ND              | 6.5703              | 0.0108             | ND                  | ND                 | ND                | ND                 | 153.0000            |
| 2                                 | 8297        | 10/16/2008 | ND                 | 0.0076          | ND                  | ND                  | ND                 | ND                | 0.0917            | ND             | ND              | 11.0685             | 0.0019             | ND                  | ND                 | ND                | ND                 | 248.0000            |
| 3                                 | 8298        | 10/16/2008 | ND                 | 0.0019          | ND                  | ND                  | ND                 | 0.0005            | 0.0147            | ND             | ND              | 6.6844              | ND                 | ND                  | ND                 | ND                | ND                 | 159.0000            |
| 4                                 | 8299        | 10/16/2008 | ND                 | 0.0193          | ND                  | ND                  | ND                 | 0.0012            | 0.0246            | ND             | ND              | 48.5799             | 0.0009             | ND                  | ND                 | ND                | 13.1138            | 384.0000            |
| 5                                 | 8301        | 10/16/2008 | 0.0024             | 0.0216          | ND                  | ND                  | ND                 | 0.0009            | 0.0095            | ND             | ND              | 16.8132             | ND                 | ND                  | ND                 | ND                | 17.0385            | 245.0000            |
| 6                                 | 8302        | 10/16/2008 | ND                 | 0.0102          | ND                  | ND                  | ND                 | ND                | 0.0053            | ND             | ND              | 14.6116             | ND                 | ND                  | ND                 | ND                | 35.3969            | 244.0000            |
| Test Count that Exceeded Standard |             |            | 0                  | 0               | 0                   | 0                   | 0                  | 0                 | 0                 | 0              | 0               | 0                   | 0                  | 0                   | 0                  | 0                 | 0                  | 0                   |
| ND - Not Detected                 |             |            |                    |                 |                     |                     |                    |                   |                   |                |                 |                     |                    |                     |                    |                   |                    |                     |

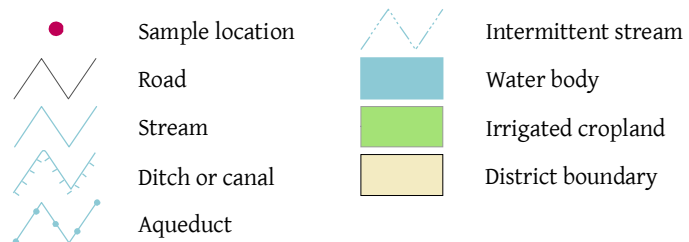
| Drinking Water Secondary Standards: |           |             | 0.1<br>Ag<br>mg/L | 0.5<br>Al<br>mg/L | 250<br>Cl<br>mg/L | 1<br>Cu<br>mg/L | 2<br>F<br>mg/L | 0.3<br>Fe<br>mg/L | 60;120;180<br>Hardnes<br>s | .05<br>Mn<br>mg/L | 6.5-8.5<br>pH<br>- | 1000<br>Si<br>mg/L | 250<br>SO4<br>mg/L | 200<br>TDS<br>mg/L | 5<br>Zn<br>mg/l |
|-------------------------------------|-----------|-------------|-------------------|-------------------|-------------------|-----------------|----------------|-------------------|----------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-----------------|
|                                     | Sample No | Tested Date |                   |                   |                   |                 |                |                   |                            |                   |                    |                    |                    |                    |                 |
| 1                                   | 8296      | 10/16/2008  | ND                | ND                | ND                | 0.0250          | ND             | ND                | 107.9000                   | 0.0003            | 7.7400             | 13.5064            | ND                 | 153.0000           | 0.0130          |
| 2                                   | 8297      | 10/16/2008  | ND                | ND                | ND                | 0.0917          | ND             | ND                | 195.4000                   | 0.0031            | 7.6100             | 22.9056            | ND                 | 248.0000           | 1.8050          |
| 3                                   | 8298      | 10/16/2008  | ND                | ND                | ND                | 0.0147          | ND             | ND                | 114.4000                   | 0.0004            | 7.3100             | 16.8752            | ND                 | 159.0000           | 0.0154          |
| 4                                   | 8299      | 10/16/2008  | ND                | ND                | ND                | 0.0246          | ND             | ND                | 254.3000                   | 0.0173            | 7.8900             | 17.3758            | 13.1138            | 384.0000           | 0.0214          |
| 5                                   | 8301      | 10/16/2008  | ND                | ND                | ND                | 0.0095          | ND             | ND                | 310.9000                   | 0.0020            | 7.5500             | 14.5298            | 17.0385            | 245.0000           | 0.0043          |
| 6                                   | 8302      | 10/16/2008  | ND                | ND                | ND                | 0.0053          | ND             | 0.1583            | 263.1000                   | 0.0159            | 7.8600             | 11.9741            | 35.3969            | 244.0000           | 0.0633          |
| Test Count that Exceeded Standard:  |           |             | 0                 | 0                 | 0                 | 0               | 0              | 0                 | 6                          | 0                 | 0                  | 0                  | 0                  | 4                  | 0               |
| ND - Not Detected                   |           |             |                   |                   |                   |                 |                |                   |                            |                   |                    |                    |                    |                    |                 |



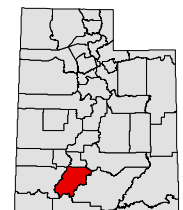
Map 31. Upper Sevier District



Map Scale 1:332,640 (1 inch = 5.25 miles)



District Location



## **UACD Zone 6 (Daggett and Uintah counties, most of Duchesne County, and northwest Grand, and east Summit counties)**

Seven (7) sites were sampled in the Duchesne County Conservation Districts in Zone 6 during the spring, summer, and fall of 2008. No samples were collected in the Daggett and Uintah County districts.

The Statistical Report below shows a summary of the total number of chemical tests collected (Test Count) for each district in Zone 6. The next four columns summarize the number of tests which exceeded the standard for either Primary Drinking Water (DW Primary), Secondary Drinking Water (DW Secondary), Irrigation, or Livestock.

### **Ground Water UACD Zone No 6 Statistical Report For the Samples Collected Between: 1/1/2008 And 11/6/2008**

| District Name       | Sample Count | Test Count | Test Count Which Result Exceeded Standards |              |            |           |
|---------------------|--------------|------------|--|--------------|------------|-----------|
|                     |              |            | DW Primary                                 | DW Secondary | Irrigation | Livestock |
| Duchesne Co.        | 7            | 280        | 0  | 15           | 21         | 5         |
| <b>Zone Totals:</b> | <b>7</b>     | <b>280</b> | <b>0</b>                                   | <b>15</b>    | <b>21</b>  | <b>5</b>  |

Detailed tables follow covering the above water quality categories - General, Irrigation, Livestock, and Culinary (which includes Primary Drinking Water Standards and Secondary Drinking Water Standards) for each district along with a map(s). For the Irrigation, Livestock, and Culinary tables the first row lists the explicit standard for each element or compound (column). The standards for irrigation and livestock originated from the Water quality for agriculture 29 Revision 1, published by the Food and Agriculture Organization of the United Nations. The drinking water primary and secondary standards are from the State of Utah's water quality standards. Below the standards are the column headings (expressed as the chemical abbreviation) for each element or compound tested. Units used in measuring the concentrations of each element or compound are found below each abbreviation. Each row of the table is a single sample identified with a sample number. This sample number shows the sampling location on the map(s) located after the chemistry tables. Highlighted sample results show samples that exceed a standard for that element or compound. Totals at the bottom of each table show how many samples in each column exceeded the standard for that column. The value "ND" indicates that a particular element or compound was "Not Detected" for a given sample.

| Irrigation Standards              |           |             | 5          | 0.5;1.0;2.0; | .1         | 100000     | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 5          | 73.2;152.5   | 10000     | 2.5        | 100000     |
|-----------------------------------|-----------|-------------|------------|--------------|------------|------------|------------|------------|-------------|------------|------------|-----------|------------|--------------|-----------|------------|------------|
|                                   | Sample No | Tested Date | Al<br>mg/L | B<br>mg/L    | Be<br>mg/L | Ca<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | HCO3<br>mg/L | K<br>mg/L | Li<br>mg/L | Mg<br>mg/L |
| 1                                 | 8249      | 9/18/2008   | ND         | 0.0749       | ND         | 28.2191    | ND         | ND         | 7.6139      | 0.0007     | 0.0097     | ND        | ND         | 244.8470     | 1.4572    | 0.0484     | 2.6137     |
| 2                                 | 8250      | 9/18/2008   | ND         | 0.0629       | ND         | 77.6448    | 12.0570    | ND         | ND          | 0.0015     | 0.0214     | ND        | ND         | 476.2150     | 1.3664    | 0.0611     | 48.1260    |
| 3                                 | 8251      | 9/18/2008   | ND         | 0.0404       | ND         | 36.7013    | ND         | ND         | ND          | ND         | 0.0092     | ND        | 0.0155     | 167.3280     | 3.2155    | 0.0136     | 16.2782    |
| 4                                 | 8252      | 9/18/2008   | ND         | 0.0254       | ND         | 40.5251    | ND         | ND         | ND          | ND         | 0.0191     | ND        | ND         | 187.0320     | 3.3274    | 0.0109     | 17.3808    |
| 5                                 | 8253      | 9/18/2008   | ND         | 0.9142       | ND         | 0.5784     | ND         | ND         | 146.9450    | 0.0020     | 0.0376     | ND        | 0.0541     | 413.2450     | 0.7976    | 0.0488     | 0.2065     |
| 6                                 | 8254      | 9/18/2008   | ND         | 0.3660       | ND         | 1.9145     | 41.6889    | ND         | 39.9043     | 0.0014     | 0.0101     | ND        | 0.0107     | 424.7130     | 1.3618    | 0.0637     | 1.1766     |
| 7                                 | 8255      | 9/18/2008   | ND         | 0.0440       | ND         | 51.9265    | ND         | ND         | ND          | 0.0006     | 0.0064     | ND        | ND         | 214.8960     | 1.5569    | 0.0287     | 18.5966    |
| Test Count that Exceeded Standard |           |             | 0          | 1            | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0         | 0          | 7            | 0         | 0          | 0          |
| ND - Not Detected                 |           |             |            |              |            |            |            |            |             |            |            |           |            |              |           |            |            |



**Livestock:**

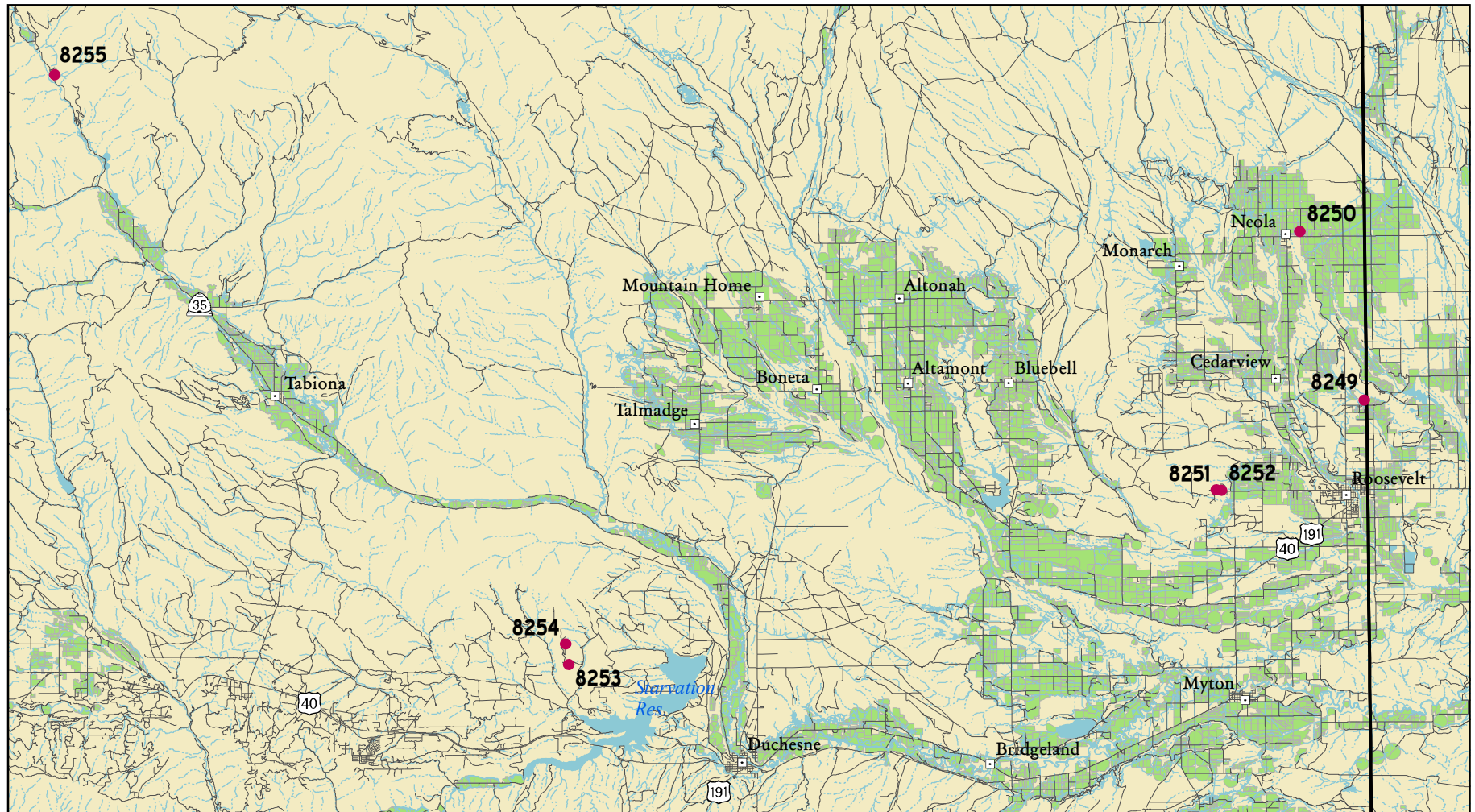
**Culinary:**

| Drinking Water Primary Standards  |           |             | 0.01       | 2          | 0.004      | 0.005      | 25           | 0.1        | 1.3        | 4         | 2          | 10000      | 1000       | 44.3        | .015       | .05        | 500         | 2000        |
|-----------------------------------|-----------|-------------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|-------------|
|                                   | Sample No | Tested Date | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Na<br>mg/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |
| 1                                 | 8249      | 9/18/2008   | ND         | 0.0120     | ND         | ND         | ND           | 0.0007     | 0.0097     | ND        | ND         | 137.4490   | ND         | ND          | ND         | ND         | 204.6027    | 510.0000    |
| 2                                 | 8250      | 9/18/2008   | 0.0089     | 0.2504     | ND         | ND         | ND           | 0.0015     | 0.0214     | ND        | ND         | 11.7795    | 0.0014     | ND          | ND         | ND         | 22.3025     | 439.0000    |
| 3                                 | 8251      | 9/18/2008   | ND         | 0.0341     | ND         | ND         | ND           | ND         | 0.0092     | ND        | ND         | 6.9577     | ND         | ND          | ND         | ND         | 58.4697     | 212.0000    |
| 4                                 | 8252      | 9/18/2008   | ND         | 0.0427     | ND         | ND         | ND           | ND         | 0.0191     | ND        | ND         | 6.1615     | ND         | ND          | ND         | ND         | 52.1088     | 220.0000    |
| 5                                 | 8253      | 9/18/2008   | ND         | 0.0291     | ND         | ND         | ND           | 0.0020     | 0.0376     | ND        | ND         | 246.9397   | 0.0007     | ND          | 0.0019     | ND         | 116.2312    | 726.0000    |
| 6                                 | 8254      | 9/18/2008   | ND         | 0.0172     | ND         | ND         | ND           | 0.0014     | 0.0101     | ND        | ND         | 349.6315   | ND         | ND          | ND         | ND         | 301.1368    | 955.0000    |
| 7                                 | 8255      | 9/18/2008   | ND         | 0.0330     | ND         | ND         | ND           | 0.0006     | 0.0064     | ND        | ND         | 10.1426    | ND         | ND          | ND         | ND         | 67.0480     | 267.0000    |
| Test Count that Exceeded Standard |           |             | 0          | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0           |
| ND - Not Detected                 |           |             |            |            |            |            |              |            |            |           |            |            |            |             |            |            |             |             |

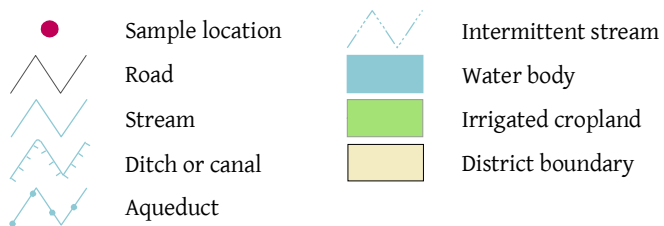
| Drinking Water Secondary Standards: |           |             | 0.1        | 0.5        | 250        | 1          | 2         | 0.3        | 60;120;180   | .05        | 6.5-8.5 | 1000       | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|------------|-----------|------------|--------------|------------|---------|------------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Al<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Fe<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | Si<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8249      | 9/18/2008   | ND         | ND         | ND         | 0.0097     | ND        | ND         | 81.3000      | 0.0015     | 8.4100  | 3.2490     | 204.6027    | 510.0000    | ND         |
| 2                                   | 8250      | 9/18/2008   | ND         | ND         | 12.0570    | 0.0214     | ND        | ND         | 392.4000     | 0.0090     | 7.6900  | 30.1355    | 22.3025     | 439.0000    | 0.0073     |
| 3                                   | 8251      | 9/18/2008   | ND         | ND         | ND         | 0.0092     | ND        | 0.0155     | 158.8000     | 0.0113     | 7.7700  | 4.8567     | 58.4697     | 212.0000    | 0.0092     |
| 4                                   | 8252      | 9/18/2008   | ND         | ND         | ND         | 0.0191     | ND        | ND         | 172.9000     | 0.0397     | 7.7800  | 4.4476     | 52.1088     | 220.0000    | 0.1094     |
| 5                                   | 8253      | 9/18/2008   | ND         | ND         | ND         | 0.0376     | ND        | 0.0541     | 2.3000       | 0.0007     | 9.3000  | 3.9289     | 116.2312    | 726.0000    | 0.0057     |
| 6                                   | 8254      | 9/18/2008   | ND         | ND         | 41.6889    | 0.0101     | ND        | 0.0107     | 9.6000       | 0.0011     | 8.7400  | 4.3374     | 301.1368    | 955.0000    | 0.0048     |
| 7                                   | 8255      | 9/18/2008   | ND         | ND         | ND         | 0.0064     | ND        | ND         | 206.4000     | 0.0057     | 7.7500  | 3.5817     | 67.0480     | 267.0000    | 0.0391     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 0          | 0          | 0         | 0          | 5            | 0          | 2       | 0          | 1           | 7           | 0          |

ND - Not Detected

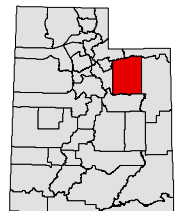
Map 32. Duchesne County District



Map Scale 1:348,480 (1 inch = 5.5 miles)



District Location





**UACD Zone 7** (Carbon, Emery, Grand, and San Juan counties, and parts of Duchesne, Sanpete, Sevier, and Utah counties)

Fifteen (15) sites were sampled in four (4) of the five (5) Conservation Districts in Zone 7 during the spring, summer and fall of 2008. These include the number of samples in the following districts: five (5) in Grand, two (2) in Green River, three (3) in Price River Watershed, and five (5) in San Juan County districts. No samples were collected in the San Rafael District.

The Statistical Report below shows a summary of the total number of chemical tests performed (Test Count) for each district in Zone 7. The next four columns summarize the number of tests which exceeded the standard for either Primary Drinking Water (DW Primary), Secondary Drinking Water (DW Secondary), Irrigation, or Livestock.

**Ground Water UACD Zone No 7 Statistical Report  
For the Samples Collected Between: 1/1/2008 And 11/6/2008**

| District Name        | Sample Count | Test Count | Test Count Which Result Exceeded Standards |              |            |           |
|----------------------|--------------|------------|--|--------------|------------|-----------|
|                      |              |            | DW Primary                                 | DW Secondary | Irrigation | Livestock |
| Grand                | 5            | 155        | 2  | 5            | 9          | 4         |
| Green River          | 2            | 62         | 1  | 2            | 3          | 2         |
| Price River Watershe | 3            | 120        | 0  | 8            | 8          | 3         |
| San Juan Co.         | 5            | 155        | 2  | 5            | 9          | 2         |
| <b>Zone Totals:</b>  | <b>15</b>    | <b>492</b> | <b>5</b>                                   | <b>20</b>    | <b>29</b>  | <b>11</b> |

Detailed tables follow covering the above water quality categories - General, Irrigation, Livestock, and Culinary (which includes Primary Drinking Water Standards and Secondary Drinking Water Standards) for each district along with a map(s). For the Irrigation, Livestock, and Culinary tables the first row lists the explicit standard for each element or compound (column). The standards for irrigation and livestock originated from the Water quality for agriculture 29 Revision 1, published by the Food and Agriculture Organization of the United Nations. The drinking water primary and secondary standards are from the State of Utah's water quality standards. Below the standards are the column headings (expressed as the chemical abbreviation) for each element or compound tested. Units used in measuring the concentrations of each element or compound are found below each abbreviation. Each row of the table is a single sample identified with a sample number. This sample number shows the sampling location on the map(s) located after the chemistry tables. Highlighted sample results show samples that exceed a standard for that element or compound. Totals at the bottom of each table show how many samples in each column exceeded the standard for that column. The value "ND" indicates that a particular element or compound was "Not Detected" for a given sample.

**General:**

| Sample No                      | Collected Date | Coliform  | Ecoli | Temperature       | EC              | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head | Material   | Casing Condition | Cullinary | Irrigation                          | Industrial                          | Landscap                 | Natural                  | Drainage                            | Other                    |
|--------------------------------|----------------|-----------|-------|-------------------|-----------------|----------|-----------|---------------|-------------|----------------|-----------|------------|------------------|-----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| 1                              | 8261           | 9/23/2008 | POS   | ND                | 61.7 F (16.5 C) | 974      | ND        | ND            | ND          | Well           | Vegetated | Soil       | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 2                              | 8262           | 9/23/2008 | ND    | ND                | 66.0 F (18.9 C) | 933      | ND        | ND            | ND          | Well           | Vegetated | Well House | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3                              | 8263           | 9/23/2008 | ND    | ND                | 63.0 F (17.2 C) | 1849     | ND        | ND            | ND          | Well           | Vegetated | Lawn       | Steel            | Sealed    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 4                              | 8264           | 9/23/2008 | POS   | ND                | 63.1 F (17.3 C) | 295      | ND        | ND            | ND          | Spring         | Cobble    | Natural    | Rock             | Open      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5                              | 8265           | 9/23/2008 | ND    | ND                | 65.7 F (18.7 C) | 3540     | ND        | ND            | ND          | Well           | Clay Soil | Soil       | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                | 2         | 0     | ND - Not Detected |                 |          |           |               |             |                |           |            |                  |           |                                     |                                     |                          |                          |                                     |                          |

| Irrigation Standards              |           |             | 0.5;1.0;2.0; .1 | 71;355     | 1          | 1000       | 1           | 0.2        | 2          | 73.2;152.5 | 2.5          | .2         | .01        | .2         | 5          | 10000      |             |
|-----------------------------------|-----------|-------------|-----------------|------------|------------|------------|-------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|-------------|
|                                   | Sample No | Tested Date | B<br>mg/L       | Be<br>mg/L | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L  | HCO3<br>mg/L | Li<br>mg/L | Mn<br>mg/L | Mo<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L |
| 1                                 | 8261      | 9/30/2008   | 0.0234          | ND         | 21.1807    | ND         | ND          | 0.0006     | 0.0317     | ND         | 209.8910     | 0.0057     | 0.0007     | 0.0005     | 0.0007     | ND         | ND          |
| 2                                 | 8262      | 9/30/2008   | 0.0241          | ND         | 37.4903    | ND         | ND          | 0.0006     | 0.0179     | ND         | 185.7390     | 0.0058     | 0.0004     | 0.0005     | ND         | ND         | ND          |
| 3                                 | 8263      | 10/2/2008   | 0.1241          | ND         | 43.3519    | ND         | ND          | ND         | 0.0075     | ND         | 220.2960     | 0.0128     | 0.0096     | 0.0133     | 0.0021     | ND         | ND          |
| 4                                 | 8264      | 9/30/2008   | 0.0220          | ND         | 12.0287    | ND         | ND          | 0.0007     | 0.0322     | ND         | 134.1640     | 0.0031     | 0.0006     | 0.0023     | ND         | ND         | ND          |
| 5                                 | 8265      | 10/2/2008   | 0.3687          | ND         | 440.7445   | ND         | ND          | 0.0010     | 0.0163     | ND         | 223.4310     | 0.0558     | 0.0006     | 0.0137     | 0.0020     | ND         | ND          |
| Test Count that Exceeded Standard |           |             | 0               | 0          | 1          | 0          | 0           | 0          | 0          | 0          | 5            | 0          | 0          | 2          | 0          | 0          | 0           |
| ND - Not Detected                 |           |             |                 |            |            |            |             |            |            |            |              |            |            |            |            |            |             |

| Irrigation Standards Continues     |           |             | 3;9<br>SAR<br>meq/L | .02<br>Se<br>mg/L | 151;451;13<br>TDS<br>mg/L | .1<br>V<br>mg/L | 2<br>Zn<br>mg/L |
|------------------------------------|-----------|-------------|---------------------|-------------------|---------------------------|-----------------|-----------------|
|                                    | Sample No | Tested Date |                     |                   |                           |                 |                 |
| 1                                  | 8261      | 9/30/2008   | ND                  | 0.0107            | ND                        | ND              | 0.0118          |
| 2                                  | 8262      | 9/30/2008   | ND                  | 0.0050            | ND                        | ND              | 0.0075          |
| 3                                  | 8263      | 10/2/2008   | ND                  | 0.0250            | ND                        | ND              | 0.0069          |
| 4                                  | 8264      | 9/30/2008   | ND                  | ND                | ND                        | ND              | 0.0084          |
| 5                                  | 8265      | 10/2/2008   | ND                  | 0.0075            | ND                        | 0.0100          | 0.0114          |
| Test Count that Exceeded Standard: |           |             | 0                   | 1                 | 0                         | 0               | 0               |
| ND - Not Detected                  |           |             |                     |                   |                           |                 |                 |

## Livestock:

| Livestock Standards               |      |           | 0.2    | 5      | .1   | 0.05 | 1    | 1      | .5     | 2    | 10   | 440     | .1   | 5.5-8.3 | .05    | 167;333   | 1000;3000; | 25     |
|-----------------------------------|------|-----------|--------|--------|------|------|------|--------|--------|------|------|---------|------|---------|--------|-----------|------------|--------|
|                                   |      |           | As     | B      | Be   | Cd   | Co   | Cr     | Cu     | F    | Hg   | NO3     | Pb   | pH      | Se     | SO4       | TDS        | Zn     |
|                                   |      |           | mg/L   | mg/L   | mg/L | mg/L | mg/L | mg/L   | mg/L   | mg/L | ug/L | mg/L    | mg/L | -       | mg/L   | mg/L      | mg/L       | mg/L   |
| 1                                 | 8261 | 9/30/2008 | ND     | 0.0234 | ND   | ND   | ND   | 0.0006 | 0.0317 | ND   | ND   | 39.1087 | ND   | 7.4100  | 0.0107 | 473.8449  | ND         | 0.0118 |
| 2                                 | 8262 | 9/30/2008 | ND     | 0.0241 | ND   | ND   | ND   | 0.0006 | 0.0179 | ND   | ND   | 12.7018 | ND   | 7.7300  | 0.0050 | 458.8993  | ND         | 0.0075 |
| 3                                 | 8263 | 10/2/2008 | ND     | 0.1241 | ND   | ND   | ND   | ND     | 0.0075 | ND   | ND   | ND      | ND   | 7.4300  | 0.0250 | 1161.1540 | ND         | 0.0069 |
| 4                                 | 8264 | 9/30/2008 | ND     | 0.0220 | ND   | ND   | ND   | 0.0007 | 0.0322 | ND   | ND   | ND      | ND   | 7.5600  | ND     | 39.2755   | ND         | 0.0084 |
| 5                                 | 8265 | 10/2/2008 | 0.0022 | 0.3687 | ND   | ND   | ND   | 0.0010 | 0.0163 | ND   | ND   | ND      | ND   | 7.6200  | 0.0075 | 1596.1190 | ND         | 0.0114 |
| Test Count that Exceeded Standard |      |           | 0      | 0      | 0    | 0    | 0    | 0      | 0      | 0    | 0    | 0       | 0    | 0       | 0      | 4         | 0          | 0      |

ND - Not Detected

## Culinary:

| Drinking Water Primary Standards  |      |           | 0.01   | 2      | 0.004 | 0.005 | 25   | 0.1    | 1.3    | 4    | 2    | 1000   | 44.3    | .015 | .05    | 500       | 2000 |
|-----------------------------------|------|-----------|--------|--------|-------|-------|------|--------|--------|------|------|--------|---------|------|--------|-----------|------|
|                                   |      |           | As     | Ba     | Be    | Cd    | ClO4 | Cr     | Cu     | F    | Hg   | Ni     | NO3     | Pb   | Se     | SO4       | TDS  |
|                                   |      |           | mg/L   | mg/L   | mg/L  | mg/L  | ug/L | mg/L   | mg/L   | mg/L | ug/L | mg/L   | mg/L    | mg/L | mg/L   | mg/L      | mg/L |
| 1                                 | 8261 | 9/30/2008 | ND     | 0.0136 | ND    | ND    | ND   | 0.0006 | 0.0317 | ND   | ND   | 0.0007 | 39.1087 | ND   | 0.0107 | 473.8449  | ND   |
| 2                                 | 8262 | 9/30/2008 | ND     | 0.0112 | ND    | ND    | ND   | 0.0006 | 0.0179 | ND   | ND   | ND     | 12.7018 | ND   | 0.0050 | 458.8993  | ND   |
| 3                                 | 8263 | 10/2/2008 | ND     | 0.0072 | ND    | ND    | ND   | ND     | 0.0075 | ND   | ND   | 0.0021 | ND      | ND   | 0.0250 | 1161.1540 | ND   |
| 4                                 | 8264 | 9/30/2008 | ND     | 0.0580 | ND    | ND    | ND   | 0.0007 | 0.0322 | ND   | ND   | ND     | ND      | ND   | ND     | 39.2755   | ND   |
| 5                                 | 8265 | 10/2/2008 | 0.0022 | 0.0073 | ND    | ND    | ND   | 0.0010 | 0.0163 | ND   | ND   | 0.0020 | ND      | ND   | 0.0075 | 1596.1190 | ND   |
| Test Count that Exceeded Standard |      |           | 0      | 0      | 0     | 0     | 0    | 0      | 0      | 0    | 0    | 0      | 0       | 0    | 0      | 2         | 0    |

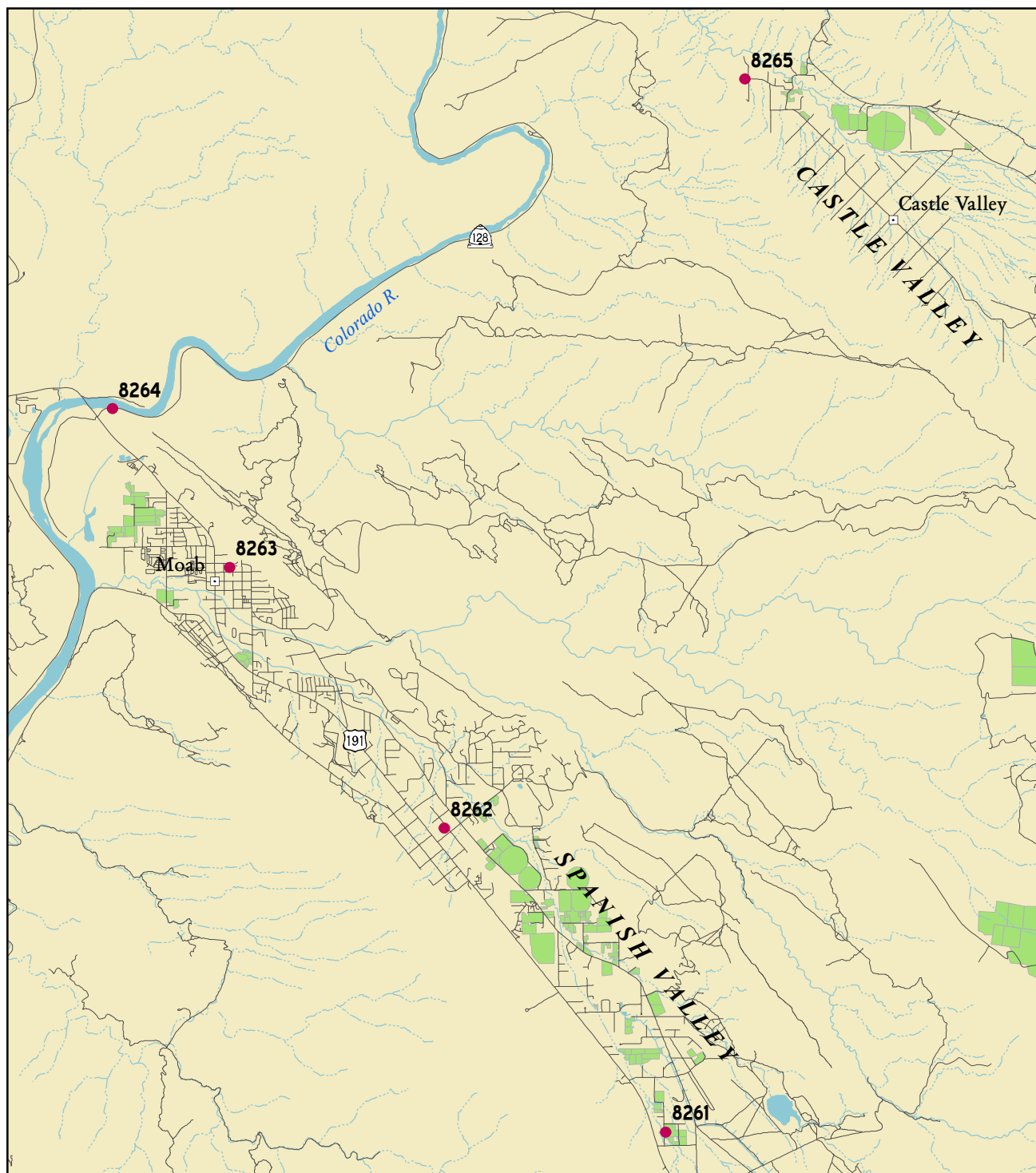
ND - Not Detected

| Drinking Water Secondary Standards: |      |           | 0.1  | 250      | 1      | 2    | 60;120;180 | .05    | 6.5-8.5 | 250       | 200  | 5      |
|-------------------------------------|------|-----------|------|----------|--------|------|------------|--------|---------|-----------|------|--------|
|                                     |      |           | Ag   | Cl       | Cu     | F    | Hardnes    | Mn     | pH      | SO4       | TDS  | Zn     |
|                                     |      |           | mg/L | mg/L     | mg/L   | mg/L | s          | mg/L   | -       | mg/L      | mg/L | mg/L   |
| 1                                   | 8261 | 9/30/2008 | ND   | 21.1807  | 0.0317 | ND   | ND         | 0.0007 | 7.4100  | 473.8449  | ND   | 0.0118 |
| 2                                   | 8262 | 9/30/2008 | ND   | 37.4903  | 0.0179 | ND   | ND         | 0.0004 | 7.7300  | 458.8993  | ND   | 0.0075 |
| 3                                   | 8263 | 10/2/2008 | ND   | 43.3519  | 0.0075 | ND   | ND         | 0.0096 | 7.4300  | 1161.1540 | ND   | 0.0069 |
| 4                                   | 8264 | 9/30/2008 | ND   | 12.0287  | 0.0322 | ND   | ND         | 0.0006 | 7.5600  | 39.2755   | ND   | 0.0084 |
| 5                                   | 8265 | 10/2/2008 | ND   | 440.7445 | 0.0163 | ND   | ND         | 0.0006 | 7.6200  | 1596.1190 | ND   | 0.0114 |
| Test Count that Exceeded Standard:  |      |           | 0    | 1        | 0      | 0    | 0          | 0      | 0       | 4         | 0    | 0      |

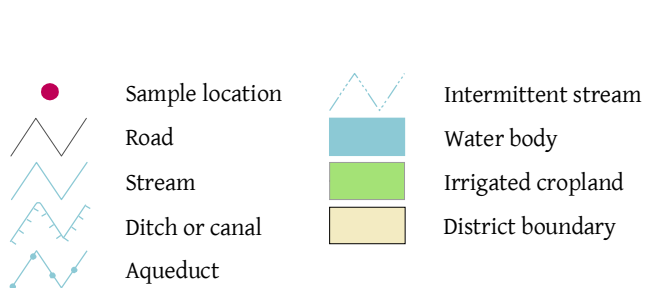
ND - Not Detected



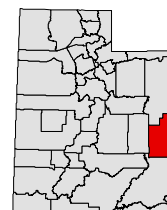
Map 33. Grand District



Map Scale 1:114,048 (1 inch = 1.8 miles)



District Location



**General:**

### General Sample Information

| Sample No                      | Collected Date | Coliform  | Ecoli | Temperature       | EC              | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head | Material | Casing Condition | Cullinary | Irrigation                          | Industrial                          | Landscape                | Natural                  | Drainage                 | Other                    |
|--------------------------------|----------------|-----------|-------|-------------------|-----------------|----------|-----------|---------------|-------------|----------------|-----------|----------|------------------|-----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8266           | 9/23/2008 | POS   | ND                | 61.2 F (16.2 C) | 2860     | ND        | ND            | ND          | Well           | Vegetated | Soil     | Steel            | Sealed    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8267           | 9/23/2008 | POS   | POS               | 66.7 F (19.3 C) | 748      | ND        | ND            | ND          | Stream         | Vegetated | Soil     | Earth            | Open      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                | 2         | 1     | ND - Not Detected |                 |          |           |               |             |                |           |          |                  |           |                                     |                                     |                          |                          |                          |                          |

**Irrigation:**

| Irrigation Standards              |             |           | 0.5;1.0;2.0; .1 | 71;355     | 1          | 1000        | 1          | 0.2        | 2         | 73.2;152.5   | 2.5        | .2         | .01        | .2         | 5          | 10000       |    |
|-----------------------------------|-------------|-----------|-----------------|------------|------------|-------------|------------|------------|-----------|--------------|------------|------------|------------|------------|------------|-------------|----|
| Sample No                         | Tested Date | B<br>mg/L | Be<br>mg/L      | Cl<br>mg/L | Co<br>mg/L | CO3<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | HCO3<br>mg/L | Li<br>mg/L | Mn<br>mg/L | Mo<br>mg/L | Ni<br>mg/L | Pb<br>mg/L | PO4<br>mg/L |    |
| 1                                 | 8266        | 10/2/2008 | 0.2109          | ND         | 49.1680    | 0.0008      | ND         | 0.0006     | 0.0072    | ND           | 296.2110   | 0.0999     | 0.3496     | 0.0090     | 0.0041     | ND          | ND |
| 2                                 | 8267        | 9/30/2008 | 0.1330          | ND         | 36.2773    | ND          | ND         | ND         | 0.0317    | ND           | 214.7210   | 0.0260     | 0.0020     | 0.0029     | 0.0012     | ND          | ND |
| Test Count that Exceeded Standard |             |           | 0               | 0          | 0          | 0           | 0          | 0          | 0         | 0            | 2          | 0          | 1          | 0          | 0          | 0           | 0  |
| ND - Not Detected                 |             |           |                 |            |            |             |            |            |           |              |            |            |            |            |            |             |    |

| Irrigation Standards Continues     |           |             | 3;9<br>SAR<br>meq/L | .02<br>Se<br>mg/L | 151;451;13<br>TDS<br>mg/L | .1<br>V<br>mg/L | 2<br>Zn<br>mg/L |
|------------------------------------|-----------|-------------|---------------------|-------------------|---------------------------|-----------------|-----------------|
|                                    | Sample No | Tested Date |                     |                   |                           |                 |                 |
| 1                                  | 8266      | 10/2/2008   | ND                  | 0.0192            | ND                        | ND              | 0.0451          |
| 2                                  | 8267      | 9/30/2008   | ND                  | ND                | ND                        | 0.0019          | 0.0039          |
| Test Count that Exceeded Standard: |           |             | 0                   | 0                 | 0                         | 0               | 0               |

ND - Not Detected

## Livestock:

| Livestock Standards               |             |           | 0.2  | 5      | .1   | 0.05 | 1      | 1      | .5     | 2    | 10   | 440  | .1   | 5.5-8.3 | .05    | 167;333   | 1000;3000; | 25     |
|-----------------------------------|-------------|-----------|------|--------|------|------|--------|--------|--------|------|------|------|------|---------|--------|-----------|------------|--------|
|                                   |             |           | As   | B      | Be   | Cd   | Co     | Cr     | Cu     | F    | Hg   | NO3  | Pb   | pH      | Se     | SO4       | TDS        | Zn     |
| Sample No                         | Tested Date |           | mg/L | mg/L   | mg/L | mg/L | mg/L   | mg/L   | mg/L   | mg/L | ug/L | mg/L | mg/L | -       | mg/L   | mg/L      | mg/L       | mg/L   |
| 1                                 | 8266        | 10/2/2008 | ND   | 0.2109 | ND   | ND   | 0.0008 | 0.0006 | 0.0072 | ND   | ND   | ND   | ND   | 7.3500  | 0.0192 | 1638.2230 | ND         | 0.0451 |
| 2                                 | 8267        | 9/30/2008 | ND   | 0.1330 | ND   | ND   | ND     | ND     | 0.0317 | ND   | ND   | ND   | ND   | 8.2400  | ND     | 183.8462  | ND         | 0.0039 |
| Test Count that Exceeded Standard |             |           | 0    | 0      | 0    | 0    | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0       | 0      | 2         | 0          | 0      |

ND - Not Detected

## Culinary:

| Drinking Water Primary Standards  |           |             | 0.01       | 2          | 0.004      | 0.005      | 25           | 0.1        | 1.3        | 4         | 2          | 1000       | 44.3        | .015       | .05        | 500         | 2000        |
|-----------------------------------|-----------|-------------|------------|------------|------------|------------|--------------|------------|------------|-----------|------------|------------|-------------|------------|------------|-------------|-------------|
|                                   | Sample No | Tested Date | As<br>mg/L | Ba<br>mg/L | Be<br>mg/L | Cd<br>mg/L | ClO4<br>ug/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | Ni<br>mg/L | NO3<br>mg/L | Pb<br>mg/L | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L |
| 1                                 | 8266      | 10/2/2008   | ND         | 0.0100     | ND         | ND         | ND           | 0.0006     | 0.0072     | ND        | ND         | 0.0041     | ND          | ND         | 0.0192     | 1638.2230   | ND          |
| 2                                 | 8267      | 9/30/2008   | ND         | 0.0644     | ND         | ND         | ND           | ND         | 0.0317     | ND        | ND         | 0.0012     | ND          | ND         | ND         | 183.8462    | ND          |
| Test Count that Exceeded Standard |           |             | 0          | 0          | 0          | 0          | 0            | 0          | 0          | 0         | 0          | 0          | 0           | 0          | 0          | 1           | 0           |

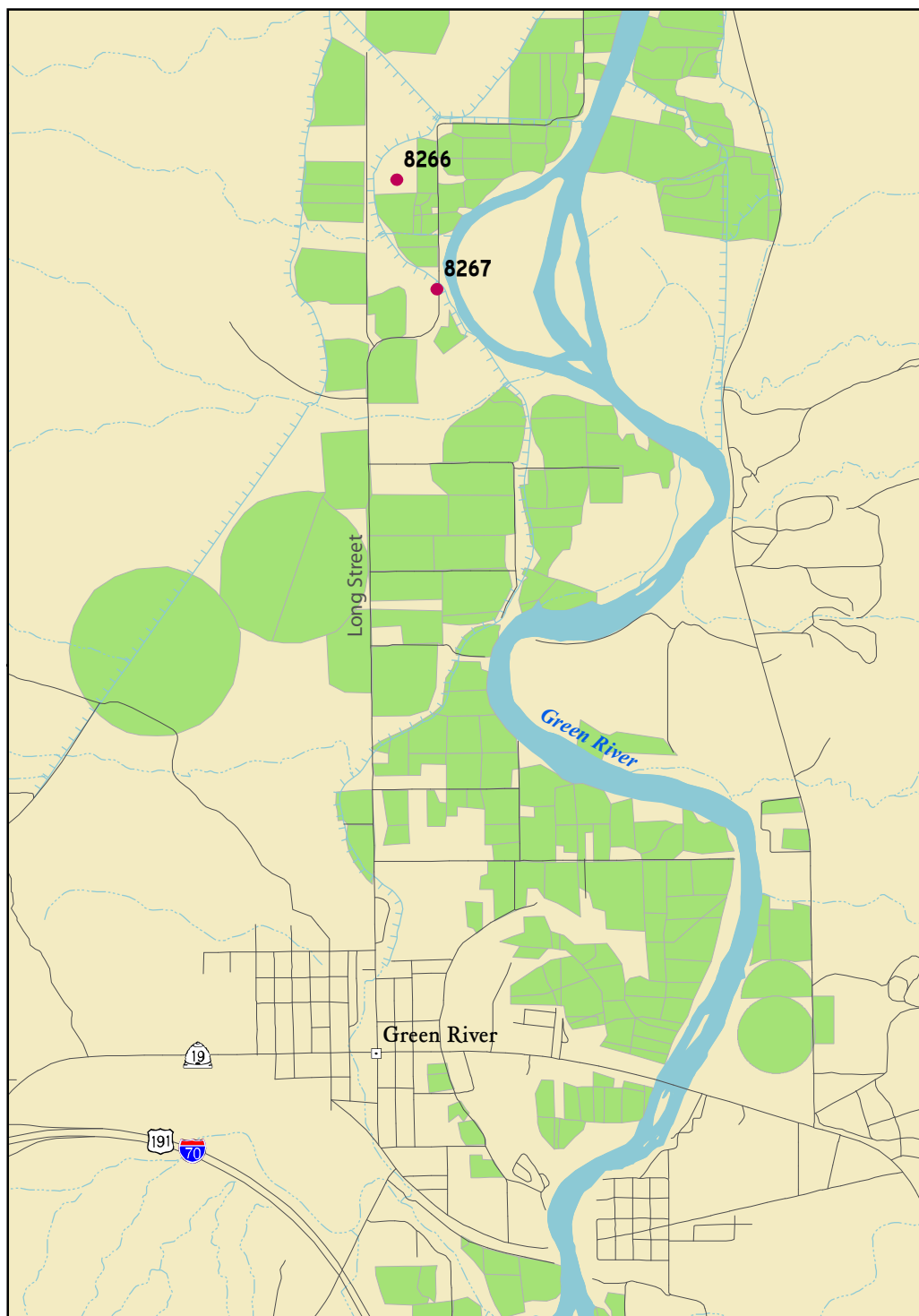
ND - Not Detected

| Drinking Water Secondary Standards: |           |             | 0.1        | 250        | 1          | 2         | 60;120;180   | .05        | 6.5-8.5 | 250         | 200         | 5          |
|-------------------------------------|-----------|-------------|------------|------------|------------|-----------|--------------|------------|---------|-------------|-------------|------------|
|                                     | Sample No | Tested Date | Ag<br>mg/L | Cl<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hardnes<br>s | Mn<br>mg/L | pH<br>- | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L |
| 1                                   | 8266      | 10/2/2008   | ND         | 49.1680    | 0.0072     | ND        | ND           | 0.3496     | 7.3500  | 1638.2230   | ND          | 0.0451     |
| 2                                   | 8267      | 9/30/2008   | ND         | 36.2773    | 0.0317     | ND        | ND           | 0.0020     | 8.2400  | 183.8462    | ND          | 0.0039     |
| Test Count that Exceeded Standard:  |           |             | 0          | 0          | 0          | 0         | 0            | 1          | 0       | 1           | 0           | 0          |

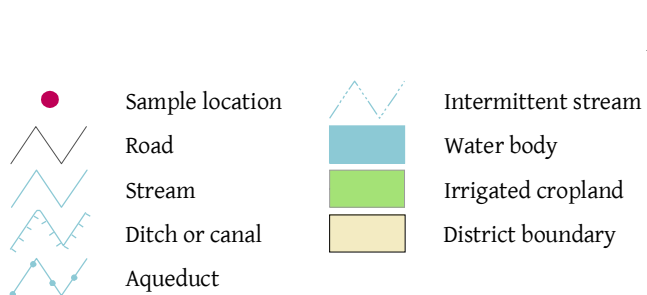
ND - Not Detected



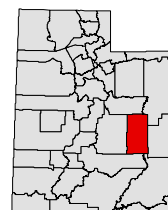
Map 34. Green River District



Map Scale 1:38,016 (1 inch = 0.6 miles)



District Location



# Price River District

## General:

### General Sample Information

|                                | Sample No | Collected Date | Coliform | Ecoli | Temperature       | EC   | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head  | Material | Casing Condition | Cullinary                           | Irrigation                          | Industrial               | Landscape                | Natural                  | Drainage                 | Other                    |
|--------------------------------|-----------|----------------|----------|-------|-------------------|------|----------|-----------|---------------|-------------|----------------|------------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8247      | 9/16/2008      | POS      | ND    | 54.1 F (12.3 C)   | 1534 | 1126     | 2.800     | 637.8         | Well        | Clean          | Soil       | Earth    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8248      | 9/16/2008      | ND       | ND    | 56.5 F (13.6 C)   | 950  | 661.0    | 1.900     | 378.3         | Well        | Vegetated      | Well House | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3                              | 8320      | 10/29/2008     | POS      | ND    | 47.5 F (8.6 C)    | 526  | 285.0    | 0.200     | 257.7         | Well        | Clean          | Gravel     | PVC      | Sealed           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |           |                | 2        | 0     | ND - Not Detected |      |          |           |               |             |                |            |          |                  |                                     |                                     |                          |                          |                          |                          |                          |

## Irrigation:

| Irrigation Standards              |           |             | 5       | 0.5;1.0;2.0; | .1      | 100000  | 71;355  | 1       | 1000     | 1       | 0.2     | 2      | 5       | 73.2;152.5 | 10000  | 2.5     | 100000  |
|-----------------------------------|-----------|-------------|---------|--------------|---------|---------|---------|---------|----------|---------|---------|--------|---------|------------|--------|---------|---------|
|                                   | Sample No | Tested Date | Al mg/L | B mg/L       | Be mg/L | Ca mg/L | Cl mg/L | Co mg/L | CO3 mg/L | Cr mg/L | Cu mg/L | F mg/L | Fe mg/L | HCO3 mg/L  | K mg/L | Li mg/L | Mg mg/L |
| 1                                 | 8247      | 9/18/2008   | ND      | 0.1641       | ND      | 99.5509 | 34.8791 | ND      | ND       | 0.0015  | 0.0186  | ND     | ND      | 535.7350   | 2.9660 | 0.0087  | 94.3946 |
| 2                                 | 8248      | 9/18/2008   | ND      | 0.2457       | ND      | 62.4390 | ND      | ND      | ND       | 0.0017  | 0.0151  | ND     | ND      | 490.5000   | 1.6553 | 0.0279  | 53.9225 |
| 3                                 | 8320      | 11/4/2008   | ND      | 0.0284       | ND      | 67.8747 | ND      | ND      | ND       | ND      | 0.0033  | ND     | 0.0252  | 295.8220   | 1.9125 | 0.0111  | 21.3708 |
| Test Count that Exceeded Standard |           |             | 0       | 0            | 0       | 0       | 0       | 0       | 0        | 0       | 0       | 0      | 0       | 3          | 0      | 0       | 0       |

ND - Not Detected

| Irrigation Standards Continues     |           |             | .2      | .01     | 70;230   | .2      | 5       | 10000    | 3;9       | .02     | 151;451;13 | .1     | 2       |
|------------------------------------|-----------|-------------|---------|---------|----------|---------|---------|----------|-----------|---------|------------|--------|---------|
|                                    | Sample No | Tested Date | Mn mg/L | Mo mg/L | Na mg/L  | Ni mg/L | Pb mg/L | PO4 mg/L | SAR meq/L | Se mg/L | TDS mg/L   | V mg/L | Zn mg/L |
| 1                                  | 8247      | 9/18/2008   | 0.0035  | 0.0014  | 161.6867 | 0.0013  | ND      | ND       | 2.8000    | 0.0055  | 1126.0000  | ND     | 0.0143  |
| 2                                  | 8248      | 9/18/2008   | 0.0036  | 0.0043  | 82.7449  | ND      | ND      | ND       | 1.9000    | ND      | 661.0000   | 0.0031 | 0.0070  |
| 3                                  | 8320      | 11/4/2008   | 0.1040  | 0.0006  | 6.5329   | ND      | ND      | ND       | 0.2000    | ND      | 285.0000   | ND     | 0.0081  |
| Test Count that Exceeded Standard: |           |             | 0       | 0       | 2        | 0       | 0       | 0        | 0         | 0       | 3          | 0      | 0       |

ND - Not Detected

Livestock:

Livestock Standards

| Livestock Standards               |             |            | 5          | 0.2       | 5          | .1         | 0.05       | 1          | 1          | .5        | 2          | 10          | 440        | .1      | 5.5-8.3    | .05         | 167;333     | 1000;3000; 25 |        |
|-----------------------------------|-------------|------------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|---------|------------|-------------|-------------|---------------|--------|
| Sample No                         | Tested Date | Al<br>mg/L | As<br>mg/L | B<br>mg/L | Be<br>mg/L | Cd<br>mg/L | Co<br>mg/L | Cr<br>mg/L | Cu<br>mg/L | F<br>mg/L | Hg<br>ug/L | NO3<br>mg/L | Pb<br>mg/L | pH<br>- | Se<br>mg/L | SO4<br>mg/L | TDS<br>mg/L | Zn<br>mg/L    |        |
| 1                                 | 8247        | 9/18/2008  | ND         | ND        | 0.1641     | ND         | ND         | ND         | 0.0015     | 0.0186    | ND         | ND          | ND         | ND      | 7.7600     | 0.0055      | 454.8067    | 1126.0000     | 0.0143 |
| 2                                 | 8248        | 9/18/2008  | ND         | 0.0019    | 0.2457     | ND         | ND         | ND         | 0.0017     | 0.0151    | ND         | ND          | ND         | ND      | 7.6800     | ND          | 195.9831    | 661.0000      | 0.0070 |
| 3                                 | 8320        | 11/4/2008  | ND         | ND        | 0.0284     | ND         | ND         | ND         | 0.0033     | ND        | ND         | ND          | ND         | ND      | 7.7200     | ND          | 27.2245     | 285.0000      | 0.0081 |
| Test Count that Exceeded Standard |             |            | 0          | 0         | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0           | 0          | 0       | 0          | 0           | 2           | 1             | 0      |

ND - Not Detected

Culinary:

Drinking Water Primary Standars

|                                   |      |           | 0.01   | 2      | 0.004 | 0.005 | 25   | 0.1    | 1.3    | 4    | 2    | 10000    | 1000   | 44.3 | .015 | .05    | 500      | 2000      |
|-----------------------------------|------|-----------|--------|--------|-------|-------|------|--------|--------|------|------|----------|--------|------|------|--------|----------|-----------|
|                                   |      |           | As     | Ba     | Be    | Cd    | ClO4 | Cr     | Cu     | F    | Hg   | Na       | Ni     | NO3  | Pb   | Se     | SO4      | TDS       |
|                                   |      |           | mg/L   | mg/L   | mg/L  | mg/L  | ug/L | mg/L   | mg/L   | mg/L | ug/L | mg/L     | mg/L   | mg/L | mg/L | mg/L   | mg/L     | mg/L      |
| 1                                 | 8247 | 9/18/2008 | ND     | 0.0301 | ND    | ND    | ND   | 0.0015 | 0.0186 | ND   | ND   | 161.6867 | 0.0013 | ND   | ND   | 0.0055 | 454.8067 | 1126.0000 |
| 2                                 | 8248 | 9/18/2008 | 0.0019 | 0.0440 | ND    | ND    | ND   | 0.0017 | 0.0151 | ND   | ND   | 82.7449  | ND     | ND   | ND   | ND     | 195.9831 | 661.0000  |
| 3                                 | 8320 | 11/4/2008 | ND     | 0.0330 | ND    | ND    | ND   | ND     | 0.0033 | ND   | ND   | 6.5329   | ND     | ND   | ND   | ND     | 27.2245  | 285.0000  |
| Test Count that Exceeded Standard |      |           | 0      | 0      | 0     | 0     | 0    | 0      | 0      | 0    | 0    | 0        | 0      | 0    | 0    | 0      | 0        | 0         |

ND - Not Detected

Drinking Water Secondary Standards:

|                                    |      |           | 0.1  | 0.5  | 250     | 1      | 2    | 0.3    | 60;120;180 | .05    | 6.5-8.5 | 1000    | 250      | 200       | 5      |
|------------------------------------|------|-----------|------|------|---------|--------|------|--------|------------|--------|---------|---------|----------|-----------|--------|
|                                    |      |           | Ag   | Al   | Cl      | Cu     | F    | Fe     | Hardnes    | Mn     | pH      | Si      | SO4      | TDS       | Zn     |
|                                    |      |           | mg/L | mg/L | mg/L    | mg/L   | mg/L | mg/L   | s          | mg/L   | -       | mg/L    | mg/L     | mg/L      | mg/L   |
| 1                                  | 8247 | 9/18/2008 | ND   | ND   | 34.8791 | 0.0186 | ND   | ND     | 637.8000   | 0.0035 | 7.7600  | 8.3836  | 454.8067 | 1126.0000 | 0.0143 |
| 2                                  | 8248 | 9/18/2008 | ND   | ND   | ND      | 0.0151 | ND   | ND     | 378.3000   | 0.0036 | 7.6800  | 10.4038 | 195.9831 | 661.0000  | 0.0070 |
| 3                                  | 8320 | 11/4/2008 | ND   | ND   | ND      | 0.0033 | ND   | 0.0252 | 257.7000   | 0.1040 | 7.7200  | 4.3456  | 27.2245  | 285.0000  | 0.0081 |
| Test Count that Exceeded Standard: |      |           | 0    | 0    | 0       | 0      | 0    | 0      | 3          | 1      | 0       | 0       | 1        | 3         | 0      |

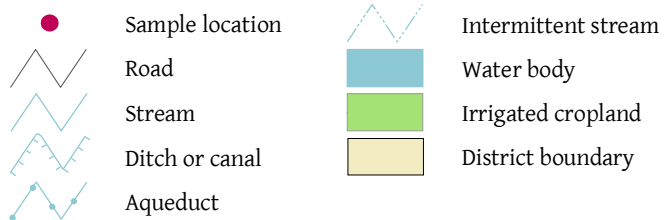
ND - Not Detected



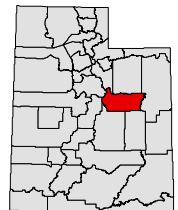
Map 35. Price River District



Map Scale 1:400,000 (1 inch = 6.3 miles)



District Location



San Juan County District

General:

General Sample Information

| Sample No                      | Collected Date | Coliform  | Ecoli | Temperature       | EC              | TDS mg/L | SAR meq/L | Hardness mg/L | Sample Site | Site Condition | Well Head | Material | Casing Condition | Cullinary                           | Irriga-tion                         | Indust-rial              | Lands-cape               | Natural                  | Drai-nage                | Other                    |
|--------------------------------|----------------|-----------|-------|-------------------|-----------------|----------|-----------|---------------|-------------|----------------|-----------|----------|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                              | 8256           | 9/22/2008 | POS   | ND                | 56.3 F (13.5 C) | 2730     | ND        | ND            | Pond        | Vegetated      | Soil      | Earth    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2                              | 8257           | 9/22/2008 | POS   | POS               | 49.6 F (9.8 C)  | 1942     | ND        | ND            | Stream      | Vegetated      | Soil      | Earth    | Open             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3                              | 8258           | 9/22/2008 | POS   | ND                | 48.9 F (9.4 C)  | 539      | ND        | ND            | Well        | Vegetated      | Soil      | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4                              | 8259           | 9/22/2008 | ND    | ND                | 56.3 F (13.5 C) | 544      | ND        | ND            | Well        | Gravel         | Pit Soil  | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5                              | 8260           | 9/22/2008 | POS   | ND                | 61.3 F (16.3 C) | 523      | ND        | ND            | Well        | Vegetated      | Pit Soil  | Steel    | Sealed           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bacteria Positive Sample Count |                | 4         | 1     | ND - Not Detected |                 |          |           |               |             |                |           |          |                  |                                     |                                     |                          |                          |                          |                          |                          |

Irrigation:

Irrigation Standards

| Sample No                         | Tested Date | B mg/L    | Be mg/L | Cl mg/L | Co mg/L  | CO3 mg/L | Cr mg/L | Cu mg/L | F mg/L | HCO3 mg/L | Li mg/L | Mn mg/L | Mo mg/L | Ni mg/L | Pb mg/L | PO4 mg/L |
|-----------------------------------|-------------|-----------|---------|---------|----------|----------|---------|---------|--------|-----------|---------|---------|---------|---------|---------|----------|
| 1                                 | 8256        | 10/2/2008 | 0.1448  | ND      | 418.2708 | ND       | ND      | 0.0122  | ND     | 175.1580  | 0.1712  | 0.0017  | 0.0082  | 0.0028  | ND      | ND       |
| 2                                 | 8257        | 10/2/2008 | 0.1088  | ND      | 198.1101 | 0.0005   | 0.0006  | 0.0181  | ND     | 404.6280  | 0.0470  | 0.2095  | 0.0192  | 0.0033  | ND      | ND       |
| 3                                 | 8258        | 9/30/2008 | 0.0209  | ND      | ND       | ND       | ND      | 0.0159  | ND     | 196.0270  | 0.0173  | 0.1546  | 0.0041  | ND      | ND      | ND       |
| 4                                 | 8259        | 9/30/2008 | 0.0182  | ND      | 11.8224  | ND       | ND      | 0.0124  | ND     | 215.2390  | 0.0138  | 0.0132  | 0.0009  | ND      | ND      | ND       |
| 5                                 | 8260        | 9/30/2008 | 0.0169  | ND      | 14.6876  | ND       | ND      | 0.0364  | ND     | 201.9930  | 0.0062  | 0.0020  | ND      | 0.0010  | ND      | ND       |
| Test Count that Exceeded Standard |             | 0         | 0       | 2       | 0        | 0        | 0       | 0       | 0      | 5         | 0       | 1       | 1       | 0       | 0       | 0        |

ND - Not Detected

Irrigation Standards Continues

| Irrigation Standards Continues     |           |             | 3:9<br>SAR<br>meq/L | .02<br>Se<br>mg/L | 151;451;13<br>TDS<br>mg/L | .1<br>V<br>mg/L | 2<br>Zn<br>mg/L |
|------------------------------------|-----------|-------------|---------------------|-------------------|---------------------------|-----------------|-----------------|
|                                    | Sample No | Tested Date |                     |                   |                           |                 |                 |
| 1                                  | 8256      | 10/2/2008   | ND                  | 0.0048            | ND                        | ND              | 0.0072          |
| 2                                  | 8257      | 10/2/2008   | ND                  | 0.0097            | ND                        | ND              | 0.0066          |
| 3                                  | 8258      | 9/30/2008   | ND                  | ND                | ND                        | ND              | 0.0147          |
| 4                                  | 8259      | 9/30/2008   | ND                  | ND                | ND                        | ND              | 0.0125          |
| 5                                  | 8260      | 9/30/2008   | ND                  | ND                | ND                        | ND              | 0.0324          |
| Test Count that Exceeded Standard: |           |             | 0                   | 0                 | 0                         | 0               | 0               |

ND - Not Detected

## Livestock:

| Livestock Standards               |      |           | 0.2    | 5      | .1   | 0.05 | 1      | 1      | .5     | 2    | 10   | 440  | .1   | 5.5-8.3 | .05    | 167;333   | 1000;3000; | 25     |
|-----------------------------------|------|-----------|--------|--------|------|------|--------|--------|--------|------|------|------|------|---------|--------|-----------|------------|--------|
|                                   |      |           | As     | B      | Be   | Cd   | Co     | Cr     | Cu     | F    | Hg   | NO3  | Pb   | pH      | Se     | SO4       | TDS        | Zn     |
| Sample No                         |      |           | mg/L   | mg/L   | mg/L | mg/L | mg/L   | mg/L   | mg/L   | mg/L | ug/L | mg/L | mg/L | -       | mg/L   | mg/L      | mg/L       | mg/L   |
| 1                                 | 8256 | 10/2/2008 | 0.0020 | 0.1448 | ND   | ND   | ND     | ND     | 0.0122 | ND   | ND   | ND   | ND   | 8.0700  | 0.0048 | 1752.5860 | ND         | 0.0072 |
| 2                                 | 8257 | 10/2/2008 | 0.0021 | 0.1088 | ND   | ND   | 0.0005 | 0.0006 | 0.0181 | ND   | ND   | ND   | ND   | 7.8700  | 0.0097 | 996.0875  | ND         | 0.0066 |
| 3                                 | 8258 | 9/30/2008 | ND     | 0.0209 | ND   | ND   | ND     | ND     | 0.0159 | ND   | ND   | ND   | ND   | 6.7700  | ND     | 103.0027  | ND         | 0.0147 |
| 4                                 | 8259 | 9/30/2008 | ND     | 0.0182 | ND   | ND   | ND     | ND     | 0.0124 | ND   | ND   | ND   | ND   | 7.6400  | ND     | 92.5341   | ND         | 0.0125 |
| 5                                 | 8260 | 9/30/2008 | ND     | 0.0169 | ND   | ND   | ND     | ND     | 0.0364 | ND   | ND   | ND   | ND   | 7.9200  | ND     | 113.7618  | ND         | 0.0324 |
| Test Count that Exceeded Standard |      |           | 0      | 0      | 0    | 0    | 0      | 0      | 0      | 0    | 0    | 0    | 0    | 0       | 0      | 2         | 0          | 0      |

ND - Not Detected

## Culinary:

| Drinking Water Primary Standards  |      |           | 0.01   | 2      | 0.004 | 0.005 | 25   | 0.1    | 1.3    | 4    | 2    | 1000   | 44.3 | .015 | .05    | 500       | 2000 |
|-----------------------------------|------|-----------|--------|--------|-------|-------|------|--------|--------|------|------|--------|------|------|--------|-----------|------|
|                                   |      |           | As     | Ba     | Be    | Cd    | ClO4 | Cr     | Cu     | F    | Hg   | Ni     | NO3  | Pb   | Se     | SO4       | TDS  |
| Sample No                         |      |           | mg/L   | mg/L   | mg/L  | mg/L  | ug/L | mg/L   | mg/L   | mg/L | ug/L | mg/L   | mg/L | mg/L | mg/L   | mg/L      | mg/L |
| 1                                 | 8256 | 10/2/2008 | 0.0020 | 0.0328 | ND    | ND    | ND   | ND     | 0.0122 | ND   | ND   | 0.0028 | ND   | ND   | 0.0048 | 1752.5860 | ND   |
| 2                                 | 8257 | 10/2/2008 | 0.0021 | 0.0489 | ND    | ND    | ND   | 0.0006 | 0.0181 | ND   | ND   | 0.0033 | ND   | ND   | 0.0097 | 996.0875  | ND   |
| 3                                 | 8258 | 9/30/2008 | ND     | 0.0148 | ND    | ND    | ND   | ND     | 0.0159 | ND   | ND   | ND     | ND   | ND   | ND     | 103.0027  | ND   |
| 4                                 | 8259 | 9/30/2008 | ND     | 0.0183 | ND    | ND    | ND   | ND     | 0.0124 | ND   | ND   | ND     | ND   | ND   | ND     | 92.5341   | ND   |
| 5                                 | 8260 | 9/30/2008 | ND     | 0.0190 | ND    | ND    | ND   | ND     | 0.0364 | ND   | ND   | 0.0010 | ND   | ND   | ND     | 113.7618  | ND   |
| Test Count that Exceeded Standard |      |           | 0      | 0      | 0     | 0     | 0    | 0      | 0      | 0    | 0    | 0      | 0    | 0    | 0      | 2         | 0    |

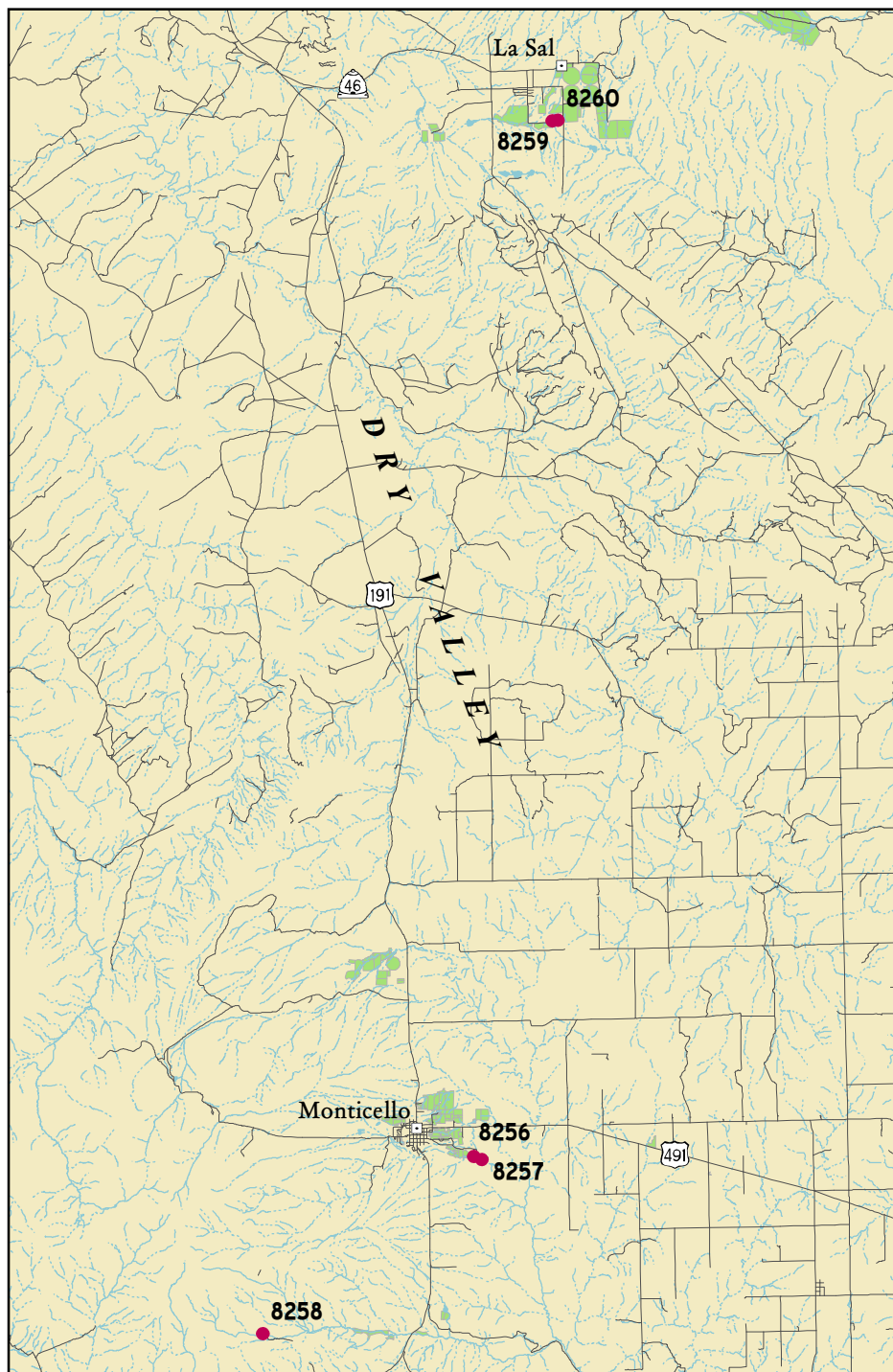
ND - Not Detected

| Drinking Water Secondary Standards: |      |           | 0.1  | 250      | 1      | 2    | 60;120;180 | .05    | 6.5-8.5 | 250       | 200  | 5      |
|-------------------------------------|------|-----------|------|----------|--------|------|------------|--------|---------|-----------|------|--------|
|                                     |      |           | Ag   | Cl       | Cu     | F    | Hardnes    | Mn     | pH      | SO4       | TDS  | Zn     |
| Sample No                           |      |           | mg/L | mg/L     | mg/L   | mg/L | s          | mg/L   | -       | mg/L      | mg/L | mg/L   |
| 1                                   | 8256 | 10/2/2008 | ND   | 418.2708 | 0.0122 | ND   | ND         | 0.0017 | 8.0700  | 1752.5860 | ND   | 0.0072 |
| 2                                   | 8257 | 10/2/2008 | ND   | 198.1101 | 0.0181 | ND   | ND         | 0.2095 | 7.8700  | 996.0875  | ND   | 0.0066 |
| 3                                   | 8258 | 9/30/2008 | ND   | ND       | 0.0159 | ND   | ND         | 0.1546 | 6.7700  | 103.0027  | ND   | 0.0147 |
| 4                                   | 8259 | 9/30/2008 | ND   | 11.8224  | 0.0124 | ND   | ND         | 0.0132 | 7.6400  | 92.5341   | ND   | 0.0125 |
| 5                                   | 8260 | 9/30/2008 | ND   | 14.6876  | 0.0364 | ND   | ND         | 0.0020 | 7.9200  | 113.7618  | ND   | 0.0324 |
| Test Count that Exceeded Standard:  |      |           | 0    | 1        | 0      | 0    | 0          | 2      | 0       | 2         | 0    | 0      |

ND - Not Detected












Map 36. San Juan District



Map Scale 1:332,640 (1 inch = 5.25 miles)



-  Sample location
-  Road
-  Stream
-  Ditch or canal
-  Aqueduct

-  Intermittent stream
-  Water body
-  Irrigated cropland
-  District boundary

District Location

