

**South Truckee Meadows
Exploratory Drilling, 2006
Washoe County
Department of Water Resources
October 31, 2007**



**WASHOE COUNTY
DEPARTMENT OF WATER RESOURCES**

4930 ENERGY WAY RENO, NEVADA 89502



**South Truckee Meadows
Exploratory Drilling, 2006
Washoe County
Department of Water Resources
October 31, 2007**

**Michael Widmer
Senior Hydrogeologist**

TABLE OF CONTENTS

| | page |
|---|-----------|
| LIST OF FIGURES AND TABLES | 2 |
| INTRODUCTION | 3 |
| Contracts and Permits | 3 |
| Hydrogeologic Setting | 3 |
| Drilling Operations | 5 |
| Well Constructions and Development | 5 |
| Water Quality Sampling | 5 |
| Data Presentation | 6 |
| PHASE 1: Exploratory Test Holes 1, 2 and 3 | 6 |
| Test Hole #1 | 6 |
| Test Hole #2 | 9 |
| Test Hole #3 | 11 |
| PHASE 2: Exploration Test Holes 4, 5 and 6 | 14 |
| Test Hole #4 | 14 |
| Test Hole #5 | 16 |
| Test Hole #6 | 19 |
| DISCUSSION | 21 |
| Production well sites and design | 23 |
| Potential pumping interference | 24 |
| REFERENCES | 24 |
| APPENDIX | 25 |

LIST OF FIGURES

| Figure | | page |
|---------------|--------------------------|-------------|
| 1 | Location Map | 4 |
| 2 | Resistivity TH #1 | 8 |
| 3 | Resistivity TH #2 | 10 |
| 4 | Resistivity TH #3 | 13 |
| 5 | Resistivity TH #4 | 15 |
| 6 | Resistivity TH #5 | 18 |
| 7 | Resistivity TH #6 | 20 |
| 8 | Lithologic Cross Section | 22 |

LIST OF TABLES

| Table | | page |
|--------------|--|-------------|
| 1 | Test Hole Locations | 3 |
| 2 | Exploration borehole #1 lithology | 7 |
| 3 | Test Hole #1 chemistry constituents of concern | 7 |
| 4 | Exploration borehole #2 lithology | 11 |
| 5 | Test Hole #2 chemistry constituents of concern | 11 |
| 6 | Exploration borehole #3 lithology | 12 |
| 7 | Test Hole #3 chemistry constituents of concern | 12 |
| 8 | Exploration borehole #4 lithology | 14 |
| 9 | Test Hole #4 chemistry constituents of concern | 16 |
| 10 | Exploration borehole #5 lithology | 16 |
| 11 | Test Hole #5 chemistry constituents of concern | 17 |
| 12 | Exploration borehole #6 lithology | 19 |
| 13 | Test Hole #6 chemistry constituents of concern | 19 |
| 14 | Piezometric levels | 21 |
| 15 | Double Diamond PW#1 production vs. TDS | 23 |
| 16 | Conceptual well production well design | 23 |
| 17 | Theis Equation results | 24 |

INTRODUCTION

In 2002, the Washoe Board of County Commissioners approved the South Truckee Meadows Water and Waste Water Facility Plan (2002, Eco:Logic, Inc.). This plan called for a "secondary" wellfield to be located in the South Meadows area of the South Truckee Meadows. This wellfield would supplement surface water flows for municipal purposes. It was assumed that the water quality would not meet arsenic standards for drinking water. Therefore, the water from this wellfield would be pumped directly to a surface water treatment plant.

The locating of exploratory drilling sites became difficult because access was limited in this highly developed residential and commercial area. Finding locations that would provide good quality water was also difficult due to the unknown extent of geothermal waters that are discharged subsurface near the Steamboat Hills. The exploratory drilling was conducted in two phases whereby the first phase (test holes #1-3) was conducted from January to May 2006 and the second phase (test holes #4-6) during October and November 2006. Figure 1 shows the locations of the exploratory test wells and Table 1 their location descriptions.

Table 1
Test Hole Locations

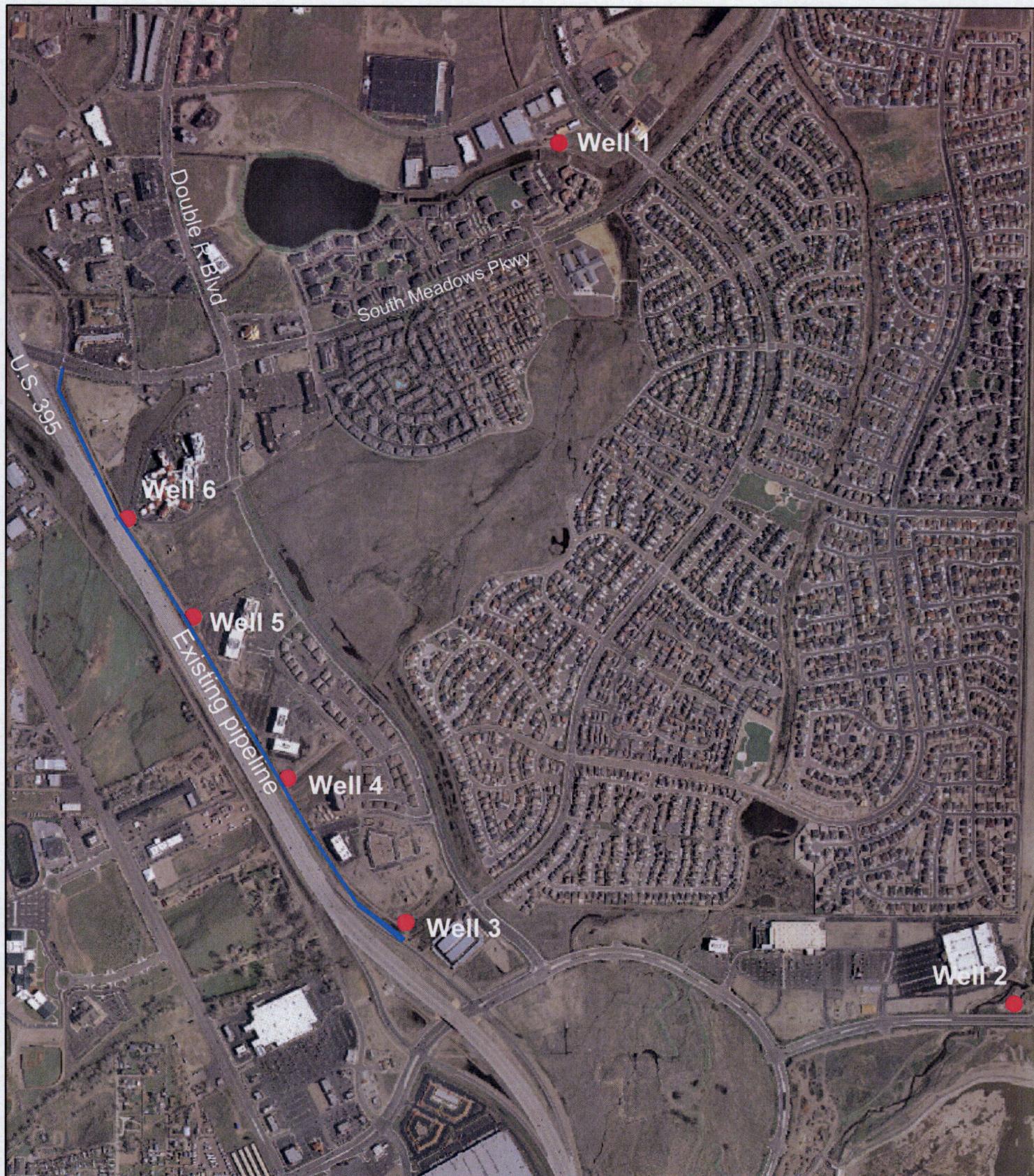
| Well | APN | Township and Range | Coordinates (Nv State Plane, NAD83) | |
|------|------------|--------------------|-------------------------------------|----------|
| | | | Northing | Easting |
| TH#1 | 160-630-52 | SE1/4NW1/4 Sec. 9 | 2295607 | 14834451 |
| TH#2 | 140-040-23 | NE1/4SE1/4 Sec. 16 | 2294310 | 14827547 |
| TH#3 | 160-060-29 | NE1/4SE1/4 Sec. 17 | 2299545 | 14826820 |
| TH#4 | 160-070-14 | SE1/4NE1/4 Sec. 17 | 2293383 | 14828571 |
| TH#5 | 160-040-17 | NW1/4NE1/4 Sec. 17 | 2292415 | 14830247 |
| TH#6 | 160-030-01 | SW1/4SE1/4 Sec. 8 | 2291927 | 14830992 |

Contracts and Permits

Each phase of drilling was contracted to a low bidder. The appendix contains the results of the bid process. Humboldt Drilling (Hydro Resources Nevada, Inc.) was the low bidder in each process. The State Engineer's Office issued waivers for each phase, M/O1393 (w/amendments) and M/O1416. Washoe County District Health also issued permits for each well WL050321, WL050319, WL060079, WL060183, WL060185, and WL060184 sequentially to test holes.

Hydrogeologic Setting

These wells are located on the South Truckee Meadows valley floor, historically the ground water discharge area for this basin. The lithology consists of mostly medium to fine grained sediments. The detritus is mostly of volcanic origin with minor contributions of granodiorite from the Carson Range to the west. The thickness is approximately 800–1,100 feet. The bedrock consists of Tertiary volcanics of mostly andesitic composition. These volcanics are extrusives and ash tuffs. The sediments range in age from Tertiary (10 ma?) to Recent. The Tertiary sediments consist of sandstones, silt and mudstones. The Quaternary to Recent deposits range from gravels to silts and clay-size particles, mostly of volcanic origin.



0 500 1,000 2,000 3,000
Feet

Figure 1. Location map of exploratory test wells, South Truckee Meadows, Reno, Nevada.



The Steamboat Geothermal System is located one mile to the south from the most southern well site. This system discharges geothermal fluids along north trending faults, commingling with ground water flowing from the west that originated in the Carson Range. The influence of the geothermal fluids within the "fresh" ground water aquifers was largely unknown prior to drilling.

Drilling and Logging Operations

Humboldt Drilling used an Ingersoll-Rand TH100 direct rotary mud rig. One collar rod was used above a nominal 12" tricone, long tooth, bit. The crew consisted of one licensed driller and one helper. Drill shifts were 12-hours, drilling 24 hours at sites 3-6. The first phase of exploratory drilling commenced January 23, 2006 and was completed May 6, 2006. There was a delay from February 16 to May 1 because of problems in locating a third site after the original site was deemed a poor location due to geothermal considerations. The second phase of drilling commenced October 26 and was completed November 29, 2006.

Drill cutting samples were logged and collected throughout ten feet intervals and bagged by Washoe County staff. Chip trays were maintained as well. The lithologic descriptions provided below represent estimated footages. As the borehole depth increased it became difficult to accurately determine depths where lithology changed. Correlation to the electric logs will be necessary. The State of Nevada Well Driller's Report can be found in the Appendix. After the borehole drilling was terminated, geophysical logs were run for resistivity, spontaneous potential, 3-arm caliper and gamma ray. Welenco (TH1, 2, 3) and Dewey Data (TH4, 5, 6) conducted the logging.

Well Constructions and Development

At each site, a 40 feet x nominal 14-inch conductor was installed and grouted (site #2 had a 29 feet conductor installed). The test wells consisted of blank, 4-inch diameter, steel and double mill slot perforated (0.125 slot or 3"x 1/8") casing. The gravel pack consisted of 1/4 x 1/8 inch, Silica Resource gravel. Both gravel and cement grout were emplaced via a tremmie pipe.

A typical well construction consisted of installing a tremmie pipe and abandoning the bottom of the borehole, if necessary. The wells were constructed with 20 feet of blank casing on the bottom and ten feet intervals of slotted casing as directed by the Hydrogeologist. Grouting occurred opposite the blank casing. Gravel was installed opposite the slotted casing, ten feet below the bottom perforation and twenty feet above the top perforation. This was to prevent grout migrating through the gravel pack to the perforations. Casing centralizers were installed at 200 feet intervals. Development consisted of minimal airlifting. The wells "cleaned up" quickly, but at site 2 airlift development was incomplete. Each well's perforated sections are noted on the following lithology log

Water Quality Sampling

Water quality sampling was accomplished via a submersible pump and inflatable packer assembly. Each perforated section was pumped until the conductivity and temperature of the water stabilized and was of reasonable clarity. A Hibatchi meter was used to measure field parameters of temperature, conductivity and pH. Sierra Environmental Monitoring, Inc., who also analyzed and reported the chemistry, prepared the sample containers.

Data Presentation

For each drill site, the tables and figures display the lithology from drill cuttings, water chemistry, electric logging, and any additional notes such as temperature readings. Note that the lithologic log is based upon the inspection of drill cuttings as the borehole was being advanced. The estimation of the depth of the particular set of cuttings recovered at the borehole discharge becomes difficult with increasing depth. For example, cuttings from the 600 feet level can take fifteen minutes to get to the surface if the up-hole mud velocity is 40 feet per minute. This becomes a problem if the hole had not been completely cleaned out from the previously advanced drill rod. Cuttings can become mixed from the previous 20 feet section and the smaller sediments can travel up-hole faster than the coarser material. This was commonly noted at the lower sections of the borehole with each new 20-feet section of drilling giving a dominant percentage of silts and clays at the beginning of the cuttings return, followed by a dominant percentage of coarser material. The point of this is that the lithologic logs are approximations with respect to the depth of footage noted. An adjustment of this log with electric logs should be undertaken. Also noted on the log table are the perforated sections of the well casing.

Identifying permeable and relatively impermeable lenses and the water quality contained therein are specific to the objectives of the drilling program as it relates to geothermal fluid migration from the Steamboat Springs geothermal system. Hence, the presentation of the electric logs is limited to the 16-inch normal resistivity log and the spontaneous potential log. The full suite of logs can be found in the master report. These two logs are used in the analysis of water chemistry and local lithologic units that may be linked laterally to all six drill sites. The two logs are graphed together where parameter scale is common, but units are different. The spontaneous potential response is a deflection in positive or negative flow of current, in millivolts, relative to the borehole. Therefore, the scale relates to the unit change in flow of current not the absolute value of the particular data point. Note that electrical resistivity of the formation is related not only to sediment size, but also to the salinity of the formation water.

As discussed by Keys (1989), spontaneous potential is the result of salinity differences between the borehole fluid and the formation fluid. It is the migration of ions from a concentrated solution to a more dilute solution as its chemical activity is affected by clay and temperature. Note that in "SP" interpretation, a normal response to a change in lithology, for example resistivity increases, is for the SP curve to have a reversed response and vice versa. Where the typical response is otherwise, an explanation is attempted for this very complex condition.

EXPLORATORY DRILLING PHASE 1

Test Hole #1

This site is located on Sandhill Road adjacent to Thomas Creek. Most of the cuttings contained large silt content. The borehole was terminated at 620 feet as it encountered clay-altered andesite. Hard and competent andesite was expected below 650 feet. For water production, the sediments appear favorable to a depth of 340 feet especially from 162 to 284 feet. The 16" normal resistivity and spontaneous potential of the borehole is shown in Figure 2. The most resistive units are above 260 feet and another relatively resistive unit is from 310-340 feet. Assumed aquitards are noted at 280-315 feet and 380-410 feet. The aquifer below 450 feet is

apparently of very low hydraulic conductivity (electrical resistivity \leq 10 ohm.m). The SP log responds normally from the surface to 400 feet although there is a slight "drift" to the positive from 80-150 feet. This drift is seen again below 475 feet coincident where resistivity is \leq 10 ohm.m. This positive drift is assumed to be the result of streaming potentials indicating borehole fluids moving into the formation.

Inspection of Table 3, indicates poor quality water at the 90-100 feet interval where boron, arsenic, iron and manganese all exceed drinking water standards. Below this interval, water quality is acceptable for treatment. Sample temperatures were measured consistently at 77° F.

After completion of the well, flowing artesian conditions developed (~50-75 gpm) where the pressure at the wellhead was measured at 7 psi (16 feet). It is believed that the flowing conditions originate from the lower perforated section. A short-term (100 minutes) pumping test was conducted wherein the total drawdown was 30 feet at 80 gpm from the original pressure head. The drawdown was negligible after 38 minutes of pumping.

Table 2
Exploration borehole #1 lithology

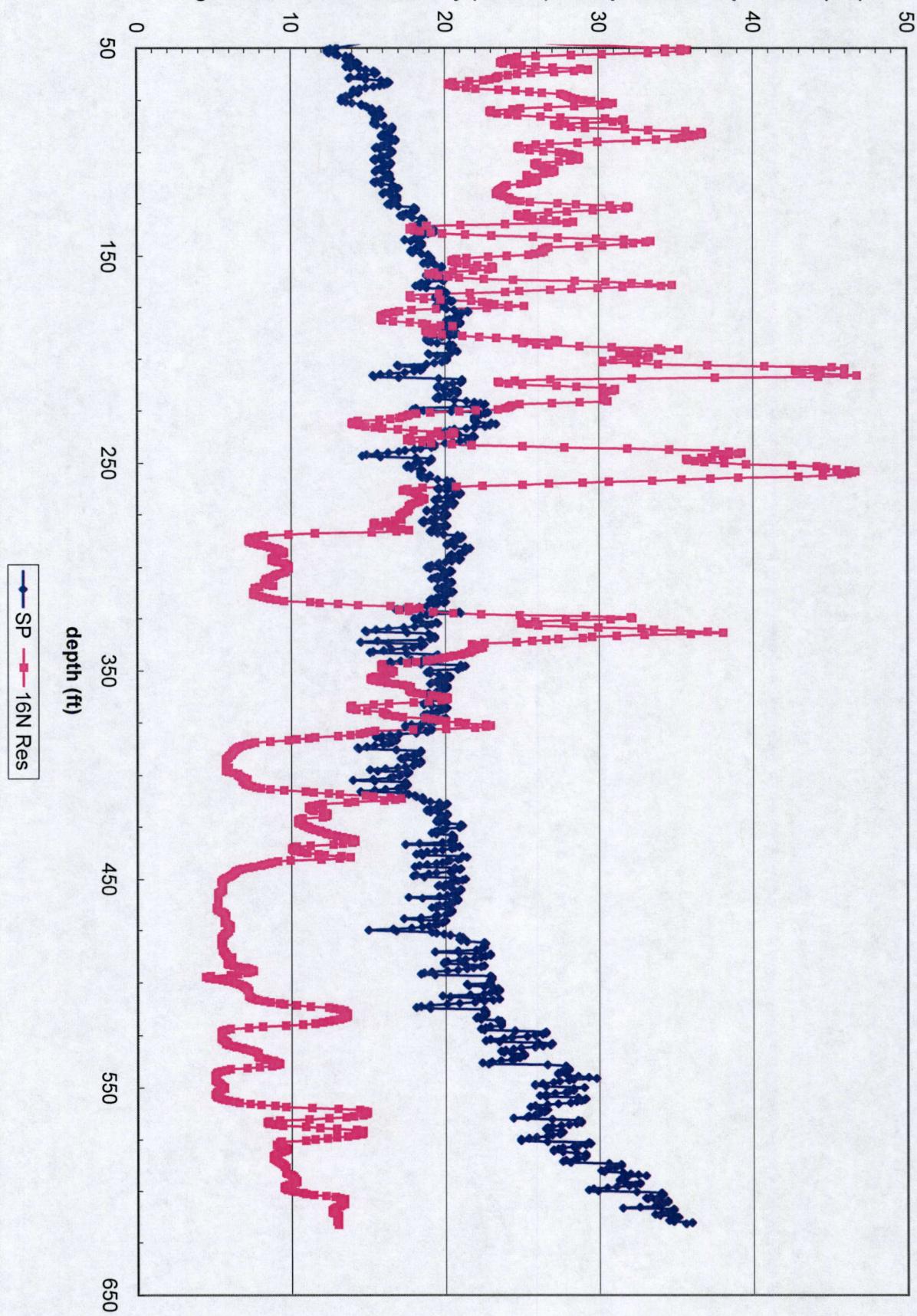
| <u>Footage</u> | <u>description</u> | <u>perforations</u> |
|----------------|--|---------------------|
| 000'-040' | conductor | |
| 040'-070' | medium to coarse sand | |
| 070'-095' | sandy silt, grey | |
| 095'-135' | sandy silt, light brown | 090-100 |
| 135'-162' | clayey, sandy silt | |
| 162'-166' | silty gravel, slow drilling | |
| 166'-240' | silty, sand | |
| 240'-262' | sandy silt, blue green color | 250-260* |
| 262'-284' | fine-medium grained, clean sand | |
| 284'-324' | silty sandstone, hard drilling | |
| 324'-340' | sandy siltstone, faster drilling | 330-340 |
| 340'-382' | gritty siltstone, blue grey color | |
| 382'-420' | sandy, silt mudstone; grey and light brown | |
| 420'-560' | sandy silt, mudstone; grey to black | |
| 560'-590' | increasing angular altered volcanic chips | |
| 590'-620' | altered andesite (?), 50% altered volcanic chips | |
| 620' | total depth of drilling | |

* perforated section based upon e-log showing noted sand lens (262'-284') higher up in formation

Table 3
Test Hole #1 chemistry constituents of concern

| zone | TDS | Cl | B | Cl/B | As | Na | SO4 | Fe | Mn |
|-------------|------------|-----------|----------|-------------|-----------|-----------|------------|-----------|-----------|
| 90-100 | 410 | 59 | 5 | 12 | 0.11 | 80 | 14 | 0.81 | 0.33 |
| 250-260 | 230 | 26 | 0.94 | 28 | 0.043 | 27 | 9.2 | <0.05 | 0.024 |
| 330-340 | 220 | 18 | 1 | 18 | 0.053 | 31 | 9.2 | 0.06 | 0.11 |

Figure 2.TH#1 16"N resistivity (ohm.m) and spontaneous potential (mv)



Test Hole #2

This site is located northwest of the intersection of Veterans and Steamboat Parkways, adjacent to Steamboat Creek. This site also had a high content of silt in the cuttings. Throughout the borehole there was also an abundance of clay sized particles or clay lenses. The cuttings were not very interesting with respect to water production. After 440 feet, the mud discharge from the borehole was monitored for temperature and was always greater than 80°F. The drilling was terminated at 960 feet due to concerns of "losing the hole" to aquifer water pressures and geothermal concerns. The mud engineer, Gene Maple (Baroid Drilling Products), was frequently onsite and took mud property measurements as did the driller, all within specifications.

The 16" normal resistivity and spontaneous potential log of TH #2 is shown in Figure 3. The most resistive unit, >30 ohm.m, was at 30-70 feet where a sand lens was drilled. Much of the borehole was logged at less than 6 ohm.m resistance and most of the borehole was measured at less than 10 ohm.m resistance. Note the SP anomaly from 300-400 feet that probably indicates fluid loss from the borehole and then fluid gain to the borehole. The electrical logging was difficult due to swelling clays. The SP data below 820 feet is deemed unreliable and an adjustment of adding 20 millivolts to the reported data is made.

Eight perforated sections were constructed to help identify geothermal contaminated lenses of the aquifer. During water chemistry sampling, temperatures were measured rising from 121 °F at the 130-140 feet perforation to 127 °F at the bottom perforation. Table 5 shows the chemistry constituents of concern. It is interesting to note the consistency of the chemistry throughout the borehole other than the 510-520 feet section where most constituents listed were 50% greater than the other sections.

Wellhead pressures were measured at 17 psi. The water quality sampling occurred from top to bottom such that pressure head could be somewhat understood. This showed that head increased with depth where flowing artesian pressure was first noted at 410-420 feet (~5 gpm). Flow incrementally increased to ~35 gpm at the 810-830 feet section and the last section increased the flow to ~70 gpm. The field water quality measurements indicated that this site would not provide treatable water quality. However, the well is important for long term monitoring of pressures and quality. To take advantage of the pressure head and minimize dangers with the hot water, the well was filled with:

| | |
|--------------|---------------------------|
| 690-940 feet | abandonite |
| 690-600 feet | cement |
| 600-480 feet | gravel with ¾" piezometer |
| 480-470 feet | hole plug and gravel |
| 470-425 feet | cement |
| 425-000 feet | open |

This allowed the 510-520 feet section to be monitored for pressure and chemistry under flowing artesian head conditions. The piezometric head of the upper section could also be measured as well as the chemistry. The monitoring of the lowest section could not be undertaken due to the 4-inch diameter well casing. Because the 510-520 feet and upper sections had different chemistry, this middle section was considered more important with respect to geothermal fluid migration.

Figure 3. TH#2 16N resistivity (ohm.m) and spontaneous potential (mv)

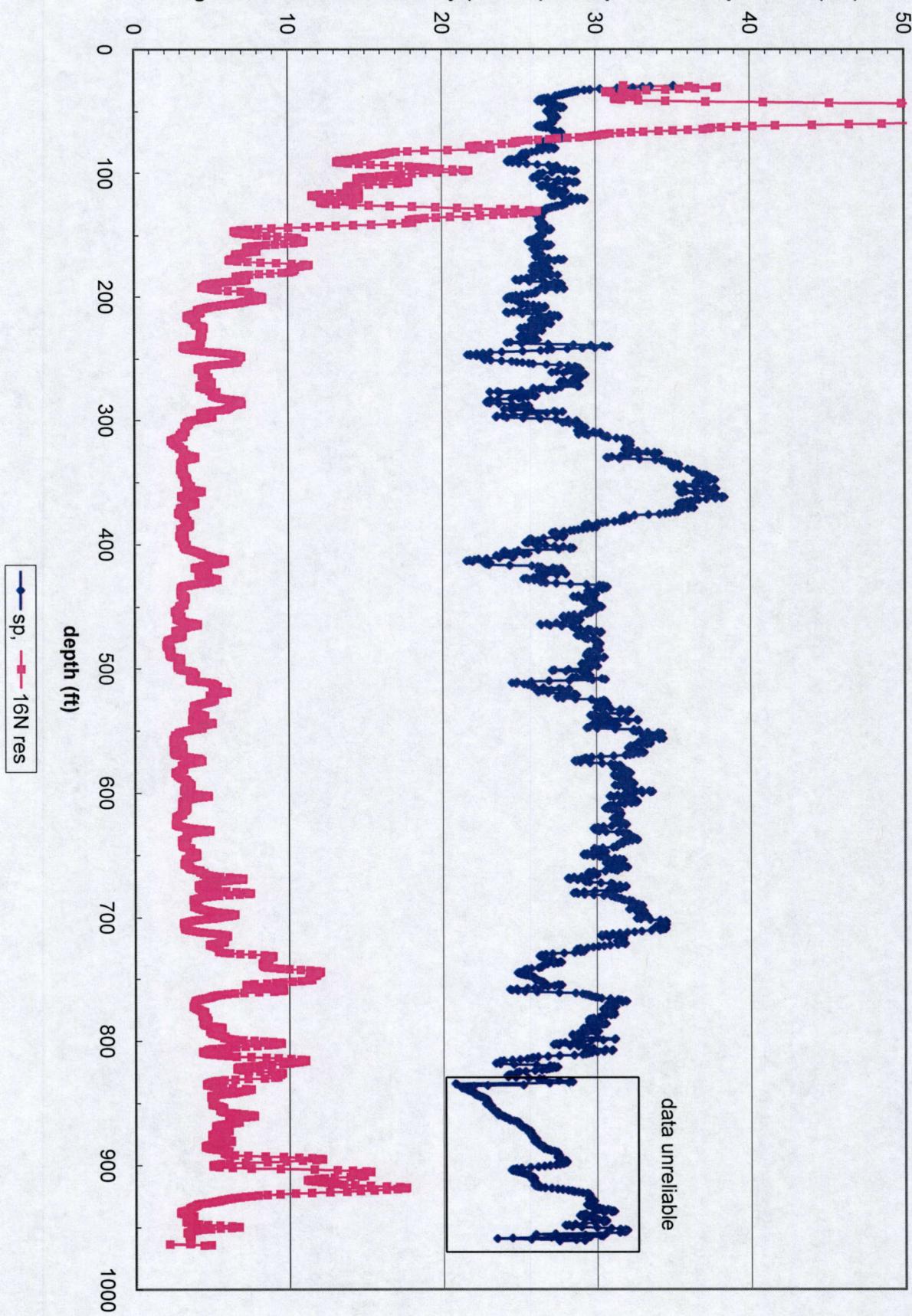


Table 4
Exploration borehole #2 lithology

| <u>Footage</u> | <u>description</u> | <u>perforations</u> |
|----------------|--|---------------------|
| 0'-29' | conductor | |
| 29'-70' | mostly sand | |
| 70'-88' | tuff? | |
| 88'-102' | clay altered andesite? | |
| 102'-115' | silty sand | |
| 115'-135' | sandy, silty clay | |
| 135'-143' | silty sand | 130-140 |
| 143'-157' | sandy, silty clay | |
| 157'-218' | silty sand | 200-210 |
| 218'-284' | clayey, sandy silt | |
| 284'-300' | gravelly, sandy silt | 280-290 |
| 300'-330' | coarse, sandy gravel | |
| 330'-380' | sandy, clayey silt | |
| 380'-430' | sandy silt with minor clay | 410-420 |
| 430'-660' | sandy, silty clay | 510-520 |
| 660'-720' | gravelly, sandy, silty clay | |
| 720'-745' | sandy silt | 740-750 |
| 745'-820' | sandy, silty, clay or clayey silt | 810-830 |
| 820'-900' | sandy silt with clay-altered volcanics (tuff?) | |
| 900'-920' | sandy silt, granodiorite sand | 900-920 |
| 920'-960' | sandy, silty clay | |
| 960' | total depth of drilling | |

Table 5
Test Hole #2 chemistry constituents of concern

| zone | TDS | Cl | B | Cl/B | Li | As | Na | SiO₂ | SO₄ |
|-------------|------------|-----------|----------|-------------|-----------|-----------|-----------|------------------------|-----------------------|
| 130-140 | 1200 | 330 | 16 | 20.6 | 1.8 | 0.25 | 300 | 150 | 110 |
| 200-210 | 1300 | 340 | 17 | 20.0 | 1.9 | 0.29 | 300 | 150 | 110 |
| 280-290 | 1200 | 360 | 16 | 22.5 | 1.6 | 0.21 | 290 | 160 | 120 |
| 410-420 | 1200 | 340 | 17 | 20.0 | 1.6 | 0.22 | 290 | 160 | 120 |
| 510-520 | 1700 | 590 | 25 | 23.6 | 3 | 0.23 | 470 | 130 | 95 |
| 740-750 | 1200 | 310 | 15 | 20.7 | 1.5 | 0.22 | 280 | 170 | 120 |
| 810-830 | 1200 | 330 | 15 | 22.0 | 1.4 | 0.25 | 260 | 160 | 100 |
| 900-920 | 1200 | 300 | 13 | 23.1 | 1.4 | 0.23 | 270 | 170 | 140 |

Test Hole #3

This site was located west of Double R Blvd., adjacent to US Interstate 580. It was unknown if the geothermal influence extended this far north, but more importantly, the site lent itself to a useable pipeline route to the forthcoming water treatment plant. The borehole cuttings (Table 6) had much more sand content than the previous two boreholes. This was particularly true from 40 feet to 450 feet. Below this level, silt and clay increased. At 800 feet, it was felt that the borehole was nearing altered and decomposed volcanics. Borehole mud temperatures were monitored at 270 feet and lower, increasing from 72 °F to 88 °F at the 655 feet level.

The 16" normal resistivity and spontaneous potential log of TH#3 is shown in Figure 4 where the resistance slowly decreases from 90 ohm.m to 10 ohm.m at 380 feet. Low resistivity (<8 ohm.m) layers were drilled at 450-520 feet, 580-640 feet, and 760-810 feet. The SP curve shows a good, normal responses until 325 feet where a positive drift occurs to a depth of 420 feet indicating fluid loss from the borehole. From 420-700 feet the SP curve is much more active indicating lateral movement of fluids. Below 700 feet shows a positive drift or fluid loss from the borehole. An apparent aquitard is noted from 580-630 feet.

Table 6
Exploration borehole #3 lithology

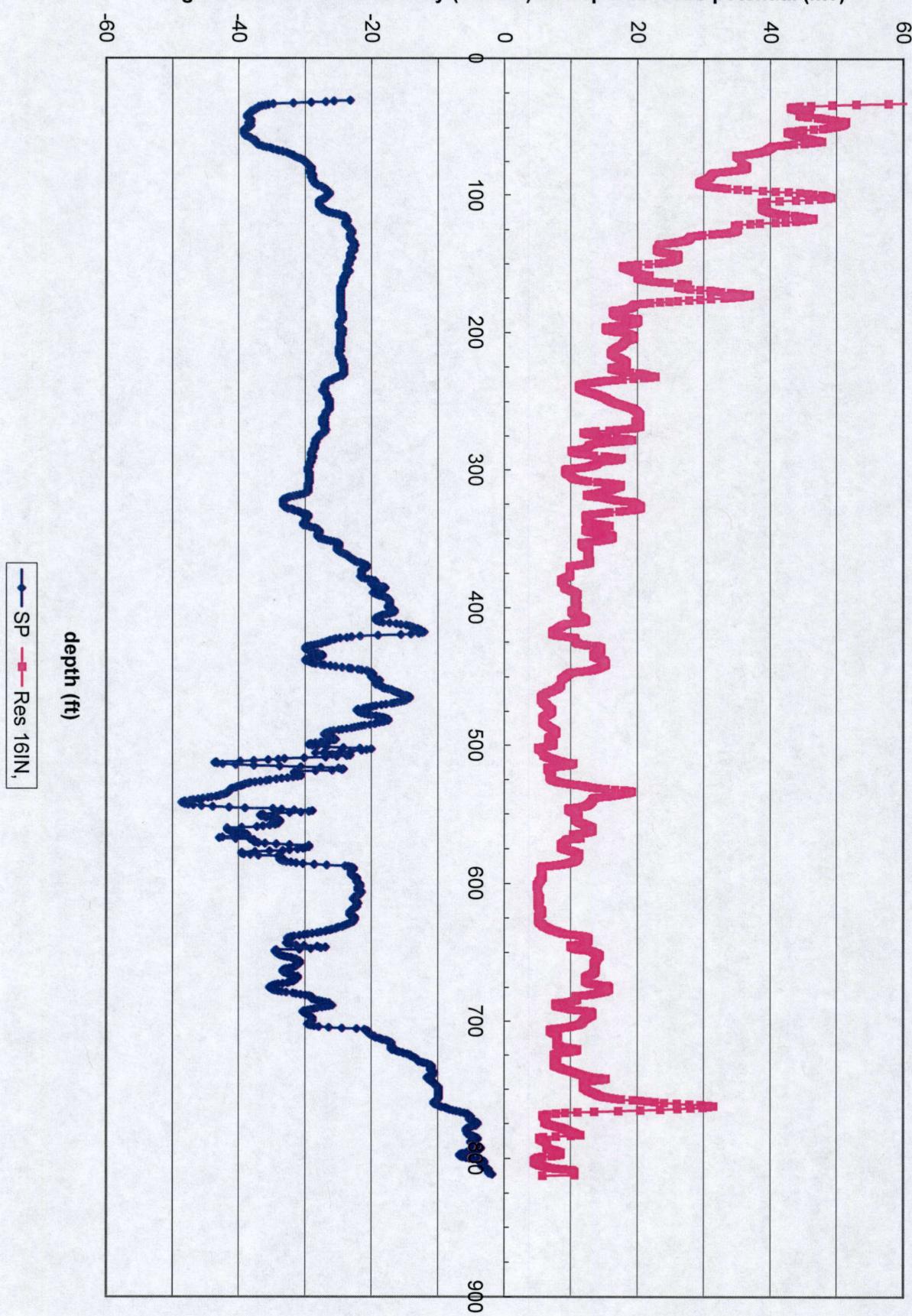
| <u>Footage</u> | <u>description</u> | <u>perforations</u> |
|----------------|--|---------------------|
| 000'-040' | conductor | |
| 040'-100' | silty, sandy gravel | |
| 100'-160' | silty sand | 100-110 |
| 160'-270' | clayey, silty sand w/ occasional gravels | 170-180 |
| 270'-300' | silty, clayey sand | |
| 300'-330' | sandy, silty clay | 320-330 |
| 330'-480' | clayey, silty sand | 430-440 |
| 480'-520' | silty, sandy clay | |
| 520'-610' | sand or sandstone | 530-540 |
| 610'-620' | green, sandy, clayey silt | |
| 620'-650' | green, clayey silt | |
| 650'-680' | green, silty, sandy clay | 660-670 |
| 680'-720' | gray-black, sandy silt | |
| 720'-740' | gray-black, sandy silt | |
| 740'-770' | gray-black, silty sand | 760-770 |
| 770'-820' | black, clayey silt | |
| 820' | total depth of drilling | |

Table 7 lists the major chemistry constituents of concern. Boron and arsenic levels were considered high and TDS is a concern at the 320-330 feet, 430-440 feet and 530-540 feet sections. The water quality does improve at the 660-670 feet and 760-770 feet sections, but the boron and arsenic levels are still too high for treatment considerations. Temperatures increased from 82 °F at the 100-110 feet section to 109 °F at the 320-330 feet section and remained at 110 °F throughout the rest of the lower sections.

Table 7
Test Hole #3 chemistry constituents of concern:

| zone | TDS | Cl | B | Cl/B | As | Na | SO4 | Fe | Mn |
|-------------|------------|-----------|----------|-------------|-----------|-----------|------------|-----------|-----------|
| 100-110 | 420 | 33 | 1.6 | 20.6 | 0.2 | 80 | 20 | 9 | 0.29 |
| 170-180 | 470 | 42 | 2 | 21 | 0.17 | 91 | 26 | 6.2 | 0.33 |
| 320-330 | 830 | 180 | 11 | 16.4 | 0.5 | 190 | 40 | 2.8 | 0.25 |
| 430-440 | 1200 | 420 | 21 | 20 | 0.54 | 320 | 77 | 1.3 | 0.5 |
| 530-540 | 1200 | 400 | 19 | 21 | 0.42 | 310 | 67 | 1.5 | 0.25 |
| 660-670 | 490 | 81 | 6 | 13.5 | 0.18 | 94 | 13 | 0.6 | 0.13 |
| 760-770 | 420 | 55 | 5.2 | 10.6 | 0.19 | 73 | 6.1 | 0.61 | 0.092 |

Figure 4. TH#3 16N resistivity (ohm.m) and spontaneous potential (mv)



EXPLORATORY DRILLING PHASE 2

Test Hole #4

This site was also located along the existing pipeline route, 1,400 feet north of site #3 and accessed off of Professional Circle from Double R Blvd. Medium to coarse grained sediments were drilled to 170 feet. Below this depth, silty sediments were dominant and persisted to the bottom of the borehole. Minor sand lenses were noted particularly from 400-435 feet.

The 16" normal resistivity and spontaneous potential log is shown in Figure 5. Fairly resistive units, as discussed, exist from surface to 170 feet (~ 50 ohm.m or greater). Below this depth lesser resistive units (>25 ohm.m) were drilled at 330-340 feet, 370-385 feet, 400-425 feet, and 460-470 feet. Comparing the resistivity log to the lithologic log, the coarse gravel noted at 180-190 feet was probably derived from above this drilled section and therefore falsely described. In summary, the best water bearing sections were above 170 feet.

The SP appears to have the same response direction as the resistivity from surface to 175 feet. The SP curve then gave a negative drift until a depth of 310 feet indicating streaming potentials and therefore fluid migration into the borehole. Inspection of the 64" normal resistivity curve shows no difference in resistivity to the log of the 16" curve and that the SP curve has little deflection throughout this drift. From 310 feet to 400 feet the SP curve gave a normal response deflection. At 400 feet another negative drift was logged to 435 feet. Normal responses were then logged to the bottom of the borehole, with an overall positive drift.

Table 8
Exploration borehole #4 lithology

| Footage | Description | perforations |
|-----------|---|--------------|
| 040'-140' | mixed gravel, silt, and sand | |
| 140'-160' | gravel | 150-160 |
| 160'-180' | sandy silt | |
| 180'-190' | coarse gravel, but probably derived from 160' | |
| 190'-200' | silty clay | |
| 200'-240' | sandy silt or silty sand | 230-240 |
| 240'-260' | clayey silt | |
| 260'-300' | sandy or clayey silt | |
| 300'-310' | sand | |
| 310'-330' | sandy, silt | |
| 330'-340' | silty, sandy gravel | 330-340 |
| 340'-400 | clayey, sandy silt | |
| 400'-420' | silty, coarse sand | |
| 420'-500' | mostly sandy silt | 460-470 |
| 500'-520' | sand | |
| 520'-535' | silty sand | |
| 535'-560' | silty, sandy gravel | 540-550 |
| 560'-580' | gravelly, sandy silt | |
| 580'-600' | silty clay | |

Figure 5. TH#4 16N resistivity (ohm.m) and spontaneous potential (mv)

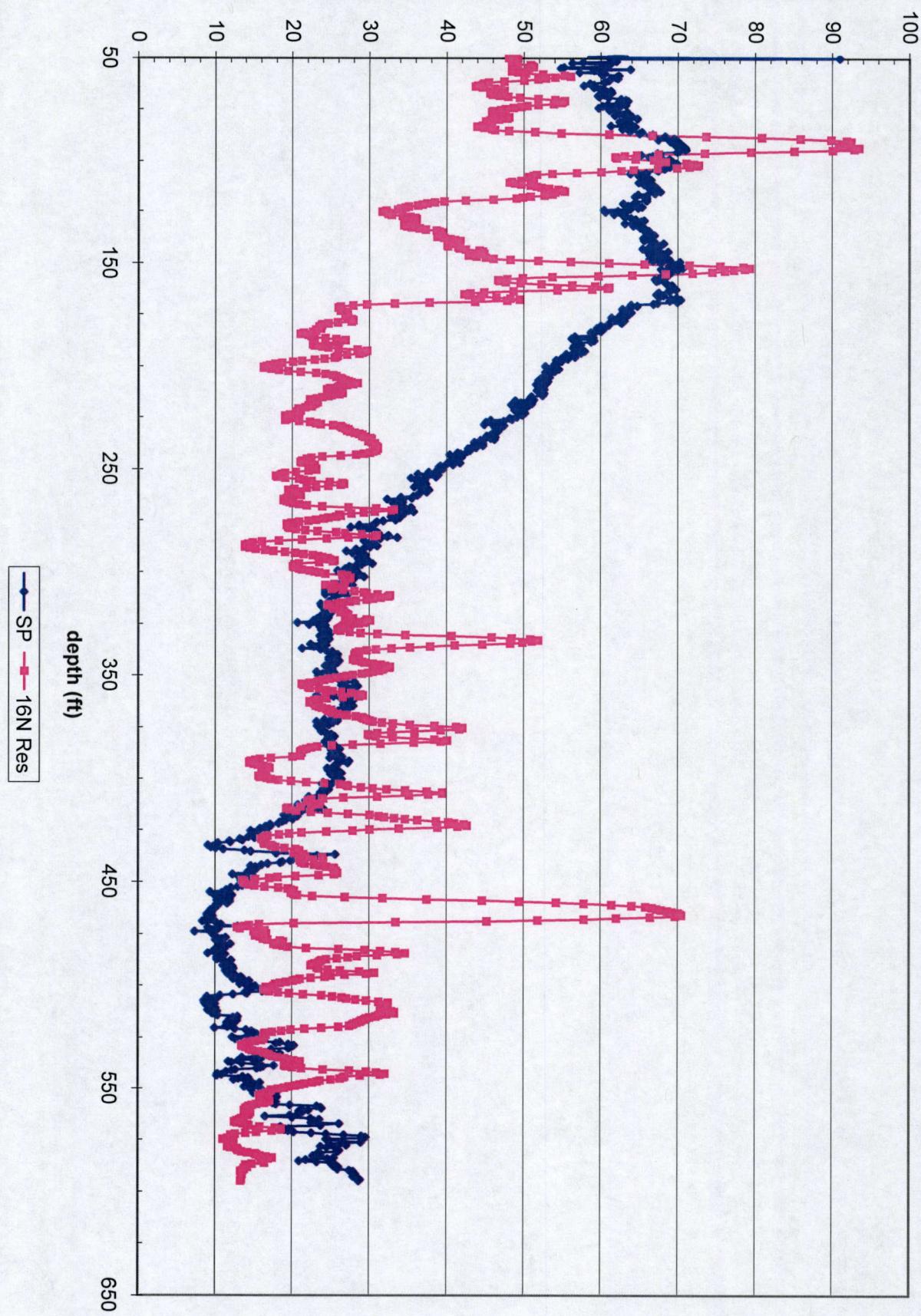


Table 9 lists the water quality constituents of concern. This Table shows that this water is not useable for municipal use particularly with respect to arsenic and boron. The concentration of TDS decreases from the 155 feet zone to the 465 feet zone where water quality is drinkable (other than arsenic and boron). Below this level, quality worsens.

**Table 9
Test Hole #4 chemistry constituents of concern**

| zone | TDS | Cl | B | Cl/B | As | Na | SO4 | Fe | Mn |
|---------|-----|-----|-----|------|------|-----|-----|------|-------|
| 150-160 | 720 | 180 | 9.9 | 18.2 | 0.30 | 180 | 29 | 1.6 | 0.12 |
| 230-240 | 660 | 170 | 9.6 | 17.7 | 0.27 | 170 | 30 | 2.2 | 0.17 |
| 330-340 | 510 | 59 | 5.1 | 11.6 | 0.20 | 110 | 16 | 9.1 | 0.35 |
| 460-470 | 320 | 41 | 1.9 | 21.6 | 0.11 | 71 | 9.2 | 0.63 | 0.029 |
| 540-550 | 550 | 130 | 7.3 | 17.8 | 0.30 | 140 | 23 | 0.56 | 0.03 |

Test Hole #5

This site was located, again, along side the existing pipeline shown in Figure 1. The site is located 1,900 feet north of site #4. Medium to coarse grained sediments were drilled to a depth of 150 feet. Sandy, silty sediments with occasional thin lenses of gravel were drilled to 360 feet. Then more clayey material was encountered to 440 feet where sand was dominant through 520 feet. Here silt increased to 550 feet and the sediment color changed to a distinct green. At 580 feet, black silt was encountered to 600 feet. Dark green, sands or sandy silt was found to 640 feet and sediments became dark grey, silty clay when the borehole was terminated at 660 feet. This last lense was recognized as the same encountered in TH#6, drilled prior to TH#5.

**Table 10
Exploration borehole #5 lithology**

| Footage | Description | perforations |
|-----------|------------------------------------|--------------|
| 040'-122' | mixed gravel, silt, and sand | 60-70 |
| 122'-140' | gravel | |
| 140'-160' | gravelly silt | |
| 160'-190' | clayey or sandy silt | 180-190 |
| 190'-230' | silty sand | |
| 230'-310' | sandy and/or clayey silt | |
| 310'-340' | gravelly, sandy silt | |
| 340'-440' | sandy, clayey silt | 340-350 |
| 440'-480' | sand | 460-470 |
| 480'-520' | silty, sand | |
| 520'-550' | sandy, gravelly silt | |
| 550'-580 | blue-green, sandy silt | 560-580 |
| 580'-600' | gray-black silt | |
| 600'-620' | dark green, clean sand (andesite?) | |
| 620'-640' | dark green, sandy silt | |
| 640'-660' | dark gray, silty clay | |

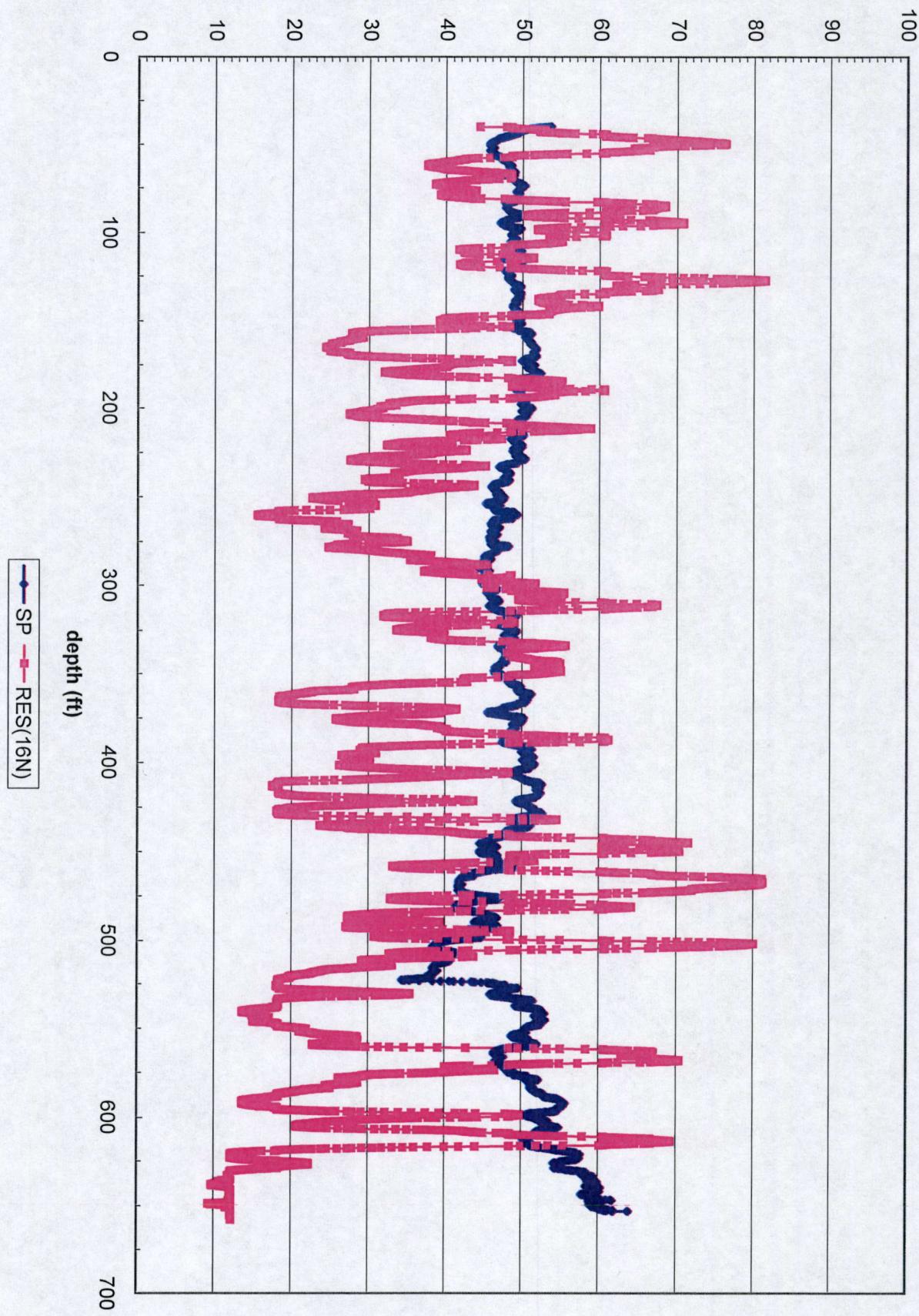
Figure 6 displays the 16" normal resistivity and spontaneous potential log. Relatively resistive units are noted from surface to 340 feet and again from 440-500 feet. The SP curve is relatively "quiet" to a depth of 420 feet. Here a slight negative drift occurs to 520 feet with more movement against more resistive beds. At 520 feet, a positive shift occurs and then drifts positively to the borehole bottom. Within this section resistive lenses are found at 560 feet and 610 feet.

Table 11 lists the chemistry of concern. The Table shows that the overall water quality is excellent for this area. Arsenic concentrations do not meet drinking water standards, but are easily treatable. Boron concentrations are equal to or less than 0.1 mg/l. Iron and manganese concentrations are elevated above secondary drinking water standards. Both lithium (<0.1) and antimony (<0.002) concentrations were undetectable and are not shown. During sampling, the temperatures of the discharge ranged from 62 °F to 69 °F, increasing with depth.

Table 11
Test Hole #5 chemistry constituents of concern

| zone | TDS | Cl | B | As | Na | SiO₂ | SO₄ | Fe | Mn |
|-------------|------------|-----------|----------|-----------|-----------|------------------------|-----------------------|-----------|-----------|
| 60-70 | 250 | 4.5 | 0.09 | 0.013 | 22 | 69 | 13 | 1.1 | 0.21 |
| 180-190 | 220 | 1.5 | 0.09 | 0.048 | 19 | 69 | 12 | 1.3 | 0.23 |
| 340-350 | 230 | 1.5 | 0.1 | 0.026 | 25 | 73 | 14 | 1.4 | 0.14 |
| 460-470 | 200 | 1.5 | 0.07 | 0.056 | 18 | 69 | 8.8 | 0.98 | 0.16 |
| 560-570 | 180 | 1.4 | 0.06 | 0.058 | 14 | 67 | 8.1 | 0.88 | 0.12 |

Figure 6. TH#5 16N resistivity (ohm.m) and spontaneous potential (mv)



TH#6

This site is located at the Double Diamond South well, located along the existing pipeline. This site was drilled to determine a target depth for constructing a replacement well for this existing production well. The sediments drilled were similar to those encountered in TH#5. Sands and gravels were drilled to 150 feet before infrequent lenses of clayey sediments were drilled (150, 200, 250, and 350 feet). Sandy gravel was encountered from 380 to 455 feet. From this depth to 500 feet, sandy, clayey silt was drilled. A distinct dark green or grey, clayey silt was drilled that turned to black clay at 540 feet. This clay soon became "gritty" and was thought to be the top of altered volcanic rock (see TH#1).

Table 12
Exploration borehole #6 lithology

| Footage | Description | perforations |
|-----------|---------------------------------------|--------------|
| 040'-110' | gravelly, silty, sand | 100'-110' |
| 110'-140' | silty, sandy gravel | |
| 140'-160' | silty clay | |
| 160'-205' | clayey, silty, gravelly sand | |
| 205'-240' | silty, clayey sand | |
| 240'-250' | sandy, silty clay | |
| 250'-350' | silty, sandy gravel or gravelly sand' | 250'-260' |
| 350'-370' | silty clay | |
| 370'-450' | silty sand and gravel | 420'-430' |
| 450'-500' | fine sandy, clayey silt, blue-gray | |
| 500'-540' | blue-green, clayey silt | |
| 540'-600' | gray-black clay, gritty at times | |

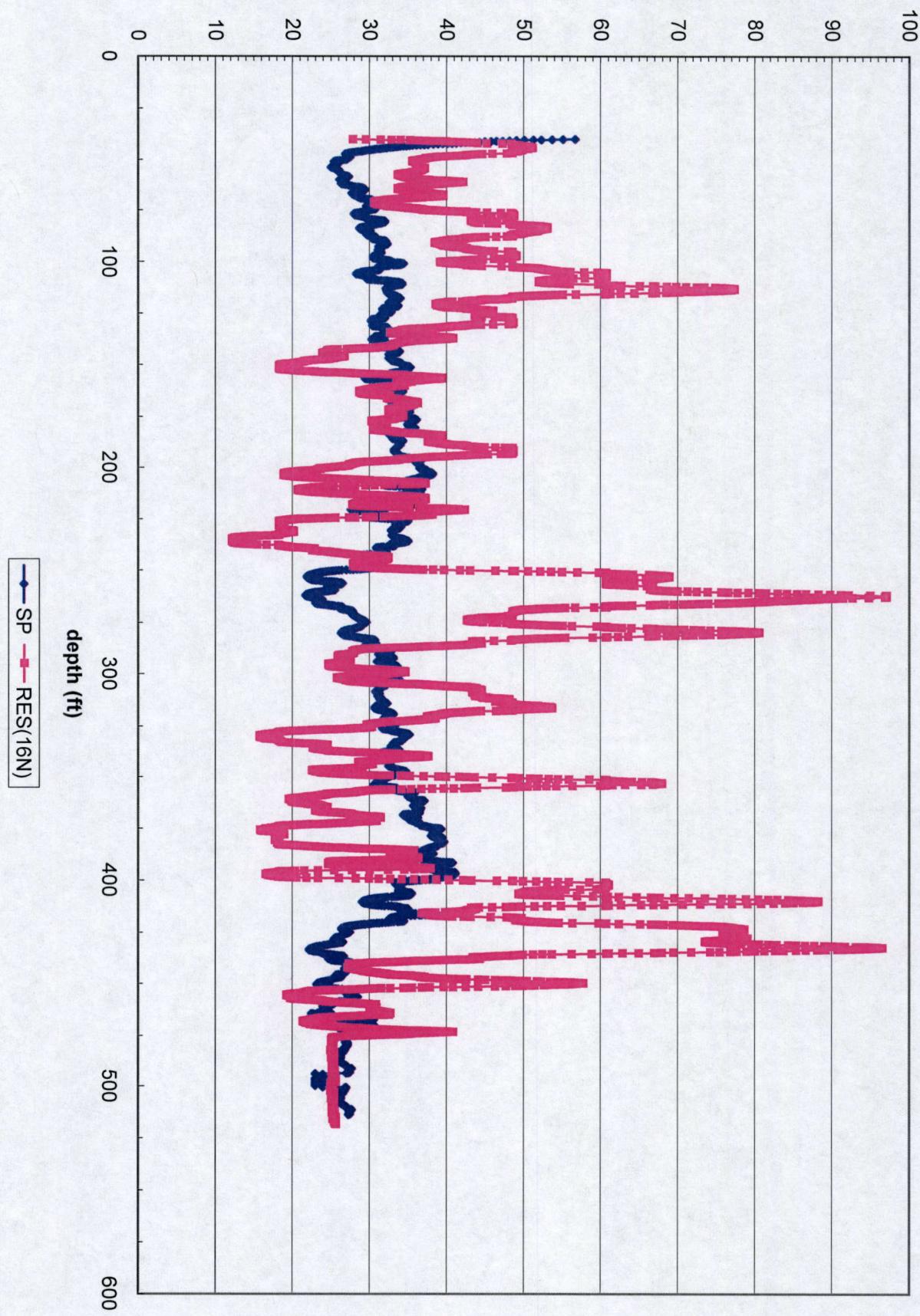
Figure 7 displays the 16" normal resistivity and spontaneous potential log of this borehole. The logging tool was not able to penetrate below 510 feet due to swelling clays. This log is quite similar to the resistivity log of TH#5 (see DISCUSSION section). Normal SP responses are noted throughout the log.

Table 13 displays the water chemistry of TH#6, similar to TH#5. The arsenic concentration is below the drinking water standards of 0.001 mg/l and boron is below 0.1 mg/l. Antimony and lithium are both non-detectable. Iron and manganese are also elevated as in TH#5, but could be the result of these constituents derived from the new well casing. Discharge temperatures increased from 62 °F to 65 °F with depth.

Table 13
Test Hole #6 chemistry constituents of concern

| zone | TDS | Cl | B | As | Na | SiO ₂ | SO ₄ | Fe | Mn |
|---------|-----|-----|------|-------|----|------------------|-----------------|------|-------|
| 100-110 | 240 | 2.7 | 0.09 | 0.009 | 23 | 71 | 12 | 2.9 | 0.11 |
| 250-260 | 160 | 1.3 | 0.09 | 0.009 | 11 | 61 | 4.5 | 1 | 0.021 |
| 420-430 | 180 | 1.3 | 0.08 | 0.009 | 11 | 61 | 4.8 | 0.58 | 0.028 |

Figure 7. TH#6 16N resistivity (ohm.m) and spontaneous potential (mv)



DISCUSSION

Figure 8 is a generalized lithologic cross section from north to south (left to right) of the exploration holes 3 through 6. Added to this is an anticipated lithologic section were the first production well would be located, 1,440 feet to the north of TH #6. From the borehole lithology four layers were interpreted as 1) a coarse-grained alluvial section (gravel) that is approximately 80-100 feet thick, 2) fine- to medium-grained sediments to a depth of approximately 500 feet below land surface, 3) a semi-impermeable (?) silty clay found at all of these drill sites at approximately 250-300 feet below land surface, 4) a greenish-alteration (?) clay approximately 50 feet thick, 5) a black, clay-altered volcanic rock, and 6) an estimated depth to Tertiary volcanic rock and granodiorite. The interpreted elevation of the volcanic rock is based upon drilling results at TH#1, previous drilling in like terrain, and the use of a bedrock elevation model based upon gravity.¹

The above units were distinguishable. Other sub-units could not be distinguished, in a lateral sense, from borehole to borehole. Comparing electric logs showed some correlations, but not between all boreholes. Overall, the lithology from land surface to the "greenish-silt" is permeable except for the obvious clayey layer noted as "aquiclude". As shown in the cross section, some of the most permeable layers were located in the top 100 feet of the "sandy gravel" unit.

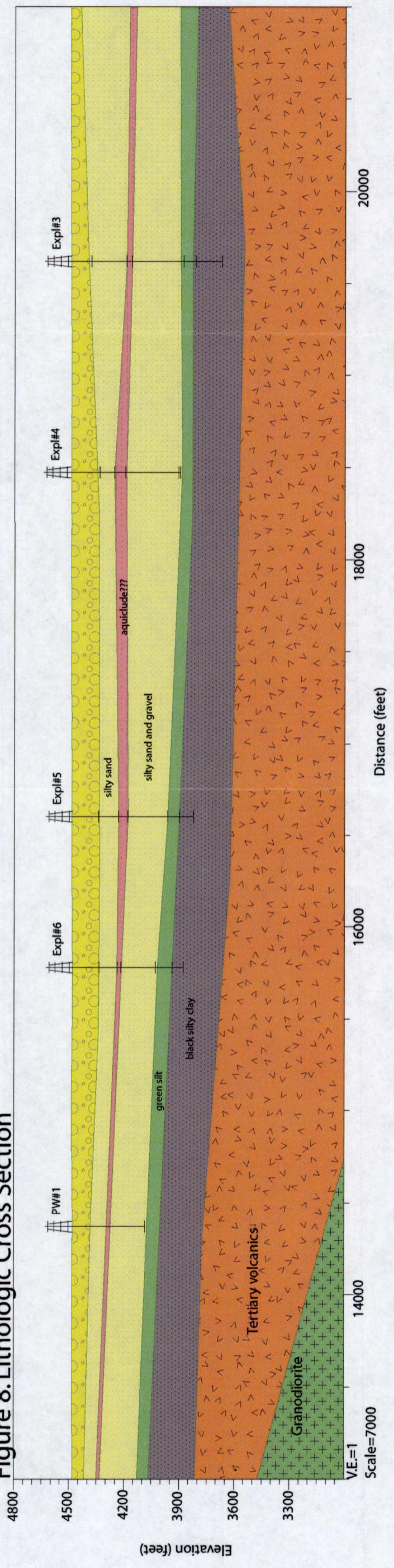
Flowing conditions exist at the first three test holes. Vertical gradient heads were most notable at TH#2. The following table lists observations of the piezometric levels that have been taken.

Table 14
Piezometric levels

| Well | Date | Head (ft) | Estimated flow (gpm) | Temp (°C) | Comment |
|----------------------------|-------------------|--------------|-------------------------|--------------|--------------------------------|
| TH1 | February 3, 2006 | + 11 | 60 | 25 | from pump column at 300' depth |
| TH1 | October 5, 2007 | ~ +8 | 4 | 25 | from wellhead |
| TH2 | February 20, 2006 | +18 | 25 | 52 | from pump column at 910' depth |
| TH2 | October 5, 2007 | > +12 | 5 | 38 | from wellhead |
| TH3 | May 8, 2006 | > + 0 | 20-25 | 42 | from pump column at 765' depth |
| TH3 | October 5, 2007 | 6 | 4 | 39 | from wellhead |
| TH4 | October 5, 2007 | -10.65 | 0 | 39 | |
| TH5 | October 18, 2007 | -1.5 | 0 | 20 | |
| TH6* | October 18, 2007 | -25.7 | 0 | 16 | |
| * adjacent to pumping well | | | | | |

¹ The GM-Sys™ model used three layers- granodiorite (density = 2.67 gm/cc), volcanic andesite (density = 2.47 gm/cm) and sediments (density = 2.07 gm/cm).

Figure 8. Lithologic Cross Section



The water chemistry sampling proved to be revealing of the changes in chemistry with depth of the first four test holes. All four of these test holes are influenced by geothermal fluids and temperatures at some depth. However, there was no indication of geothermal constituents of any concentration in TH#5 and TH#6. This might indicate that an impermeable or semi-impermeable barrier exists between these boreholes and the boreholes influenced wither geothermal fluids. However, there is no direct evidence to date to indicate this. Alternatively, the chemistries of TH#5 and TH#6 could be controlled hydraulically from up-gradient ground water movement.

It is instructive to examine the total dissolved solids concentration over time sine the Double Diamond 1 well has been pumping. This well is 50 feet from TH#6. Table 15 lists the annual pumpage and available TDS chemistry. This shows there is no apparent migration of geothermal fluids to this pumping well.

**Table 15
Double Diamond PW#1 production vs. Total Dissolved Solids (ppm)**

| | Million gallons | TDS |
|------|-----------------|-----|
| 1994 | 74 | 135 |
| 1995 | 61 | |
| 1996 | 47 | 178 |
| 1997 | 101 | |
| 1998 | 91 | |
| 1999 | 121 | 171 |
| 2000 | 118 | |
| 2001 | 122 | 151 |
| 2002 | 91 | |
| 2003 | 132 | |
| 2004 | 158 | 174 |
| 2005 | 128 | 125 |
| 2006 | 97 | 220 |

Production well sites and design

Due to the chemistry of the test wells, three sites have been chosen for production wells. These are sites at TH#5 and TH#6 (the Double Diamond production well #1) and a site located 1,440 feet to the north of TH#6. The expected production capacity is from 1,000 to 1,500 gpm. The screen interval is as follows:

**Table 16
Conceptual well production well design**

| Exploration site | Production name | Screen interval (ft below surface) |
|-----------------------------|-----------------------|------------------------------------|
| TH#5 | PW#3 (Renown) | 300 -520 |
| TH#6 | PW#2 (Double Diamond) | 280 - 500 |
| 1,440 feet to north of TH#6 | PW#1 (S. Meadows) | 280 - 500 |

Potential pumping interference

These wells, from north to south, are offset at 1,440 feet and 1,000 feet. The Theis equation was used to calculate well interference values based upon pumping 500 and 1,000 gpm over a period of 120 days. The estimated transmissivity (13,000 gpd/ft) and storage coefficient (0.002) were taken from pumping tests conducted at the Double Diamond well in 1990 (Washoe County, 1990). The results are shown in Table 16. Please note that no attention was given to well losses, formation losses or of the ground water gradient flow component (recharge) in these calculations.

Table 17
Theis Equation results in estimating drawdown from production pumping

| | | PW#1 | PW#2 | PW#3 | TH#4 |
|----------------------------|--------------------|-----------|--------------|--------------|--------------|
| Distance from PW#1 | Pumping rate (gpm) | 0 (ft) | 1440 (ft) | 2440 (ft) | 4340 (ft) |
| Drawdown from PW#1 | 500 | 71 | 21 | 16 | 11 |
| Drawdown from PW#2 | 500 | 21 | 71 | 24 | 15 |
| Drawdown from PW#3 | 500 | 26 | 24 | 71 | 19 |
| Drawdown from PW#1, #2, #3 | 1500 | 118 | 136 | 127 | 45 |
| Drawdown from PW#1 | 1000 | 141 | 41 | 33 | 23 |
| Drawdown from PW#2 | 1000 | 41 | 141 | 48 | 30 |
| Drawdown from PW#3 | 1000 | 33 | 48 | 141 | 37 |
| Drawdown from PW#1, #2, #3 | 3000 | 230 | 230 | 222 | 90 |

The drawdown at each well due to its own pumping was 71 and 141 feet (500 gpm and 1,000 gpm, respectively). Drawdown induced at the other production wells ranged from 21 to 26 feet at 500 gpm and 33 to 48 feet at 1,000 gpm. Total drawdown at each well from all three wells pumping ranges from approximately 125 feet (500 gpm) to 230 feet (1,000 gpm). Also shown is the calculated drawdown at TH#4 located 4,340 feet from PW#1 and 1,900 feet from PW#3. Drawdown at this site ranges from 11 to 90 feet. This range in drawdown at TH#4 should be viewed as unlikely.

REFERENCES

Eco:Logic, Inc. 2002. South Truckee Meadows Facility Plan. Consultant report prepared for the Washoe County Regional Water Planning Commission, Washoe County Department of Water Resources, Reno, NV.

Washoe County, 1990. Field notes from 72-hour constant discharge pumping test at the Double Diamond production well. Washoe County Department of Water Resources, Reno, NV.

APPENDIX

State of Nevada Drill Waiver

Washoe County District Health Well Construction Permits

State of Nevada Well Driller's Reports

Water quality data

Bid documents

TH#2 completion diagram

Geophysical logs in back jacket

KENNY C. GUINN
Governor

STATE OF NEVADA

ALLEN BIAGGI
Director



RECEIVED

JAN 05 2006

HUGH RICCI, P.E.
State Engineer

WASHOE COUNTY
DEPT. OF WATER RESOURCES

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

901 S. Stewart Street, Suite 2002

Carson City, Nevada 89701

(775) 684-2800 • Fax (775) 684-2811

<http://water.nv.gov>

M/O-1393

January 3, 2006

Washoe County Department of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89502

Re: Three (3) monitoring wells to assess ground water properties in Washoe, County, Nevada.

Local Nos. 0871 N18 E20 09 Bd; N18 E20 16 Cc & N18 E20 16 Da.
APN's 160-630-52; 140 010-33 & 140-040-23.

Dear Mr. Widmer:

As provided in Nevada Administrative Code (NAC) § 534.450 of the Regulation for Water Well and Related Drilling, permission is herewith granted to install three (3) monitoring wells as described in your request received December 1, 2005 and secondary request dated December 30, 2005. Your affidavits stating responsibility for abandonment of these wells were filed on December 1, 2005 and December 30, 2005.

This office only waives the provisions that require a mandate to install monitoring wells, NAC § 534.4351 (1)(c). The purpose of these wells is to collect data related to this project. The wellheads shall be protected from damage due to vandalism or sunlight. The wells may be completed with ASTM F-480 (Sch. 40 or heavier) well casing as provided in NAC § 534.362. Glued casing joint connections will not be allowed. Full compliance with the remainder of the statute and regulation is required.

A plot map showing the actual location of the completed monitoring wells must be submitted upon completion of the drilling operations.

Authorization to drill under this waiver expires one (1) year from the date of this letter.

Page 2
January 3, 2006

The well driller's reports shall bear this waiver number M/O-1393.

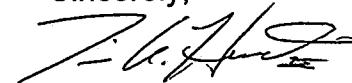
The well driller must have a copy of this waiver in possession at all times during drilling activities pertaining to this project.

These wells may only be pumped when necessary to obtain samples.

All wells shall be plugged and abandoned as provided by regulation upon project completion. Please include as accurate a description of the location of each well on the completion reports (the addition of GPS coordinates is desired). It is expressly understood that this authorization does not relieve the operator of the requirements of any other state, federal or local agencies.

If you have any questions, please call me at 775-684-2800.

Sincerely,



Tim Hunt
Staff Engineer II

TH/sg

KENNY C. GUINN
Governor

STATE OF NEVADA

ALLEN BIAGGI
Director



HUGH RICCI, P.E.
State Engineer

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

M/O-1393A

901 S. Stewart Street, Suite 2002

Carson City, Nevada 89701

(775) 684-2800 • Fax (775) 684-2811

<http://water.nv.gov>
March 10, 2006

Michael Widmer
Washoe County Department of Water Resources
4930 Energy Way
Reno, NV 89502

Re: Location modification for one (1) monitoring well previously authorized under M/O-1393 in Washoe County, Nevada. Local Nos. 0871 N18 E20 16 Dc, APN 140-211-05.

Dear Mr. Widmer:

Pursuant to your request dated February 9, 2006, you are herewith authorized to drill one (1) monitor well as described. The remainder of the provisions under waiver M/O-1393 are in full effect. The authorization to drill on Washoe County APN 140-010-33 is simultaneously revoked.

Authorization to drill under this waiver expires one (1) year from the date of this letter. The well driller's report shall bear waiver number M/O-1393A.

The well driller must have a copy of this waiver in possession at all times during drilling activities pertaining to this project.

All wells shall be plugged and abandoned as provided by regulation upon project completion. Please include an accurate description of the location of the well on the completion report (the addition of GPS coordinates is desired). It is expressly understood that this authorization does not relieve the operator of the requirements of any other state, federal or local agencies.

If you have any questions, please call Tim Hunt or the undersigned at 775-684-2800.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael J. Anderson".

Michael J. Anderson, P.E.
Staff Engineer III

MJA/sg

KENNY C. GUINN
Governor

STATE OF NEVADA



ALLEN BIAGGI
Director

HUGH RICCI, P.E.
State Engineer

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

901 S. Stewart Street, Suite 2002

Carson City, Nevada 89701

M/O-1393B (775) 684-2800 • Fax (775) 684-2811

<http://water.nv.gov>

April 25, 2006

DEPT. OF WATER RESOURCES
WASHOE COUNTY
APR 27 2006

R E C E I V E D

Michael Widmer
Washoe County Department of Water Resources
4930 Energy Way
Reno, NV 89502

Re: Location modification for one (1) monitoring well previously authorized in Washoe County, Nevada. Local Nos. 0871 N18 E20 17 Da, APN 160-060-29.

Dear Mr. Widmer:

Pursuant to your request dated April 13, 2006, you are herewith authorized to drill one (1) monitor well as described. The remainder of the provisions under waiver M/O-1393 are in full effect. The authorization to drill on Washoe County APN 140-211-05 or 140-101-33 is simultaneously revoked.

Authorization to drill under this waiver expires one (1) year from the date of this letter. The well driller's report shall bear waiver number M/O-1393B.

The well driller must have a copy of this waiver in possession at all times during drilling activities pertaining to this project.

All wells shall be plugged and abandoned as provided by regulation upon project completion. Please include an accurate description of the location of the well on the completion report (the addition of GPS coordinates is desired). It is expressly understood that this authorization does not relieve the operator of the requirements of any other state, federal or local agencies.

If you have any questions, please call Tim Hunt or the undersigned at 775-684-2800.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael J. Anderson".

Michael J. Anderson, P.E.
Staff Engineer III

MJA/sg

KENNY C. GUINN
Governor

STATE OF NEVADA

ALLEN BIAGGI
Director



TRACY TAYLOR, P.E.
State Engineer

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

901 S. Stewart Street, Suite 2002
Carson City, Nevada 89701
(775) 684-2800 • Fax (775) 684-2811
<http://water.nv.gov>

R E C E I V E D

AUG 18 2006

WASHOE COUNTY
DEPT. OF WATER-RESOURCES

M/O-1416

August 16, 2006

Washoe County Department of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89502

Re: Three (3) monitoring wells to assess ground water properties in Washoe, County, Nevada.

Local Nos. 087 N18 E20 17 Ad & Ab; N18 E20 08 Dc & Ca.
APN's 160-070-14; 160-040-17; 160-030-13 & 160-040-19.

Dear Mr. Widmer:

As provided in Nevada Administrative Code (NAC) § 534.450 of the Regulation for Water Well and Related Drilling, permission is herewith granted to install three (3) monitoring wells as described in your request received August 4, 2006 and supplemental information received August 10, 2006. Your affidavits stating responsibility for abandonment of these wells were filed on August 4, 2006 and August 10, 2006.

This office only waives the provisions that require a mandate to install monitoring wells, NAC § 534.4351 (1)(c). The purpose of these wells is to collect data related to this project. The wellheads shall be protected from damage due to vandalism or sunlight. The wells may be completed with ASTM F-480 (Sch. 40 or heavier) well casing as provided in NAC § 534.362. Glued casing joint connections will not be allowed. Full compliance with the remainder of the statute and regulation is required.

A plot map showing the actual location of the completed monitoring wells must be submitted upon completion of the drilling operations.

Authorization to drill under this waiver expires one (1) year from the date of this letter.

Page 2
August 16, 2006

The well driller's reports shall bear this waiver number M/O-1416.

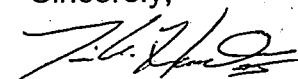
The well driller must have a copy of this waiver in possession at all times during drilling activities pertaining to this project.

These wells may only be pumped when necessary to obtain samples.

All wells shall be plugged and abandoned as provided by regulation upon project completion. Please include as accurate a description of the location of each well on the completion reports (GPS coordinates are required). It is expressly understood that this authorization does not relieve the operator of the requirements of any other state, federal or local agencies.

If you have any questions, please call me at 775-684-2800.

Sincerely,



Tim Hunt
Staff Engineer II

TH/sg

WASHOE COUNTY DISTRICT HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
1001 East Ninth Street
Reno, Nevada 89512
(775) 328-2434

POST IN A CONSPICUOUS PLACE

WELL CONSTRUCTION PERMIT

Permit No.: WL050321

Tag No.: MWELL # 1

Issued By: Date Issued:

RICARDO CRUZ 12/06/2005
Owner:

WASHOE COUNTY WATER RESOURCES
Driller:

HUMBERT DRILLING AND PUMP COMPANY
Location:

O DOUBLE DIAMOND
Expiration Date:

06/06/2007

Permit Fee:
\$210.00

Inspection Type:
MONITORING

Comment:

INSPECTIONS

| | Inspector: | Date: |
|-------------------------|------------|-------|
| Well Setup: | | |
| Well Final: | | |
| Septic System Setbacks: | | |

100' Seal Required: Yes No

Other:

(By Affirmation, Deepening, Etc.)

ation
tment

Permit # **WL050321**
Fee paid **J.C. \$210.00**
Date **12/2/05**
Initial **SN**

ounty Water Resources

rgy Way

89502

Work phone number: **954 4655**

(vacant land) O DOUBLE DIAMOND
PICKUP
n Meadows Parkway

sec 9 T18R20 - South Truckee Mdwss

30-52

Use of well: monitor

Humboldt Drilling

6797

12 B0504676

pecial conditions? Yes _____ No **X**

Date: **11-30-05**

ached to this application.

Soud hill

WASHOE COUNTY DISTRICT HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
1001 East Ninth Street
Reno, Nevada 89512
(775) 328-2434

POST IN A CONSPICUOUS PLACE

WELL CONSTRUCTION PERMIT

Permit No.: **WL060079**

Tag No.: **NA**

Issued By:

Date Issued:

Owner: **RICARDO CRUZ**

04/28/2006

Driller: **SOUTH MEADOWS COMMERCIAL PROPERTY**

Location at Site: **HYDRO RESOURCES NEVADA INC**

Expiration Date: **0 PROFESSIONAL CIR (DOUBLE R BLVD) RENO**

10/27/2007

Permit Fee:

\$210.00

Inspection Type:

MONITORING

Comment: _____

INSPECTIONS

| | Inspector: | Date: |
|-------------------------|------------|-------|
| Well Setup: | | |
| Well Final: | | |
| Septic System Setbacks: | | |

100' Seal Required: Yes No

Other: _____

(By Affirmation, Deepening, Etc.)

on
nt

Permit #

Fee paid _____

Date _____

Initial _____

south Commercial Property

City Dept. Water Resources

Way, Reno, 89502

Work phone number: 954-4655

Blvd.

Diamond Pkwy

south

D-29

Use of well: monitor

unboldt Drilling

797

B0504676

conditions? Yes No _____

Date: 4-12-06

d to this application.

WASHOE COUNTY DISTRICT HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
1001 East Ninth Street
Reno, Nevada 89512
(775) 328-2434

POST IN A CONSPICUOUS PLACE

WELL CONSTRUCTION PERMIT

Permit No.: WL050319
Tag No.: MWELL #3

Issued By:

Date Issued:

Owner: RICARDO CRUZ

12/07/2005

Driller: WASHOE COUNTY WATER RESOURCES

Location: HUMBOLDT DRILLING AND PUMP COMPANY

Expiration Date: 0 PIONEER PARKWAY

06/07/2007

Permit Fee:

\$210.00

Inspection Type:

MONITORING

Comment:

INSPECTIONS

| | Inspector: | Date: |
|-------------------------|------------|-------|
| Well Setup: | | |
| Well Final: | | |
| Septic System Setbacks: | | |

100' Seal Required: Yes No

Other:

(By Affirmation, Deepening, Etc.)

Permit # WL050319
Fee paid J.E. \$210.00
Date 12/2/05
Initial SN

Washoe County Water Resources

1 Way

89502

Work phone number: 954 4655

2 Pioneer
Westway

16 TIER 20 - South Truckee Mdw

1-23

Use of well: monitor

Humboldt Drilling

797

B 0504676

cial conditions? Yes _____ No X

Date: 11-30-05

Journal
Entry

shed to this application.

WASHOE COUNTY DISTRICT HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
1001 East Ninth Street
Reno, Nevada 89512
(775) 328-2434

POST IN A CONSPICUOUS PLACE

WELL CONSTRUCTION PERMIT

Permit No.: **WL060185**

Tag No.: **NA**

Issued By: _____ Date Issued: _____

RICARDO CRUZ 10/04/2006
Owner:

WASHOE CO DEPT OF WATER RESOURCES
Driller:

HYDRO RESOURCES NEVADA INC
Location at Site:

0 DOUBLE R BLVD WCTY
Expiration Date:

04/03/2008

| | |
|-------------|-----------------|
| Permit Fee: | \$210.00 |
|-------------|-----------------|

| | |
|------------------|-------------------|
| Inspection Type: | MONITORING |
|------------------|-------------------|

| | |
|----------|-------|
| Comment: | _____ |
| | _____ |
| | _____ |

INSPECTIONS

| | Inspector: | Date: |
|-------------------------|------------|-------|
| Well Setup: | | |
| Well Final: | | |
| Septic System Setbacks: | | |

100' Seal Required: Yes No

Other: _____

(By Affirmation, Deepening, Etc.)

WASHOE COUNTY DISTRICT HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
1001 East Ninth Street
Reno, Nevada 89512
(775) 328-2434

POST IN A CONSPICUOUS PLACE

WELL CONSTRUCTION PERMIT

Permit No.: **WL060183**

Tag No.: **NA**

Issued By: _____ Date Issued: _____

RICARDO CRUZ 10/04/2006
Owner:

WASHOE CO DEPT OF WATER RESOURCES
Driller:

HYDRO RESOURCES NEVADA INC
Location at Site:

10539 DOUBLE R BLVD RENO
Expiration Date:

04/03/2008

| | |
|-------------|-----------------|
| Permit Fee: | \$210.00 |
|-------------|-----------------|

| | |
|------------------|-------------------|
| Inspection Type: | MONITORING |
|------------------|-------------------|

| | |
|----------|-------|
| Comment: | _____ |
| | _____ |
| | _____ |

INSPECTIONS

| | Inspector: | Date: |
|-------------------------|------------|-------|
| Well Setup: | | |
| Well Final: | | |
| Septic System Setbacks: | | |

100' Seal Required: Yes No

Other: _____

(By Affirmation, Deepening, Etc.)

WASHOE COUNTY DISTRICT HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH SERVICES

1001 East Ninth Street

Reno, Nevada 89512

(775) 328-2434

POST IN A CONSPICUOUS PLACE**WELL CONSTRUCTION PERMIT**Permit No.: **WL060184**Tag No.: **NA**

Issued By:

Date Issued:

RICARDO CRUZ
Owner:

10/04/2006

WASHOE CO CEPT OF WATER RESOURCES
Driller:

HUMBOLDT DRILLING AND PUMP COMPANY

TH #6

13090 OLD VIRGINIA RD WCTY
Expiration Date:

04/03/2008

Permit Fee:

\$210.00

Inspection Type:

MONITORING

Comment:

INSPECTIONS

| | Inspector: | Date: |
|-------------------------|------------|-------|
| Well Setup: | | |
| Well Final: | | |
| Septic System Setbacks: | | |

100' Seal Required: Yes No

Other: _____

STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

Please complete this form in its entirety in
accordance with NRS 534.170 and NAC 534.340

OFFICE USE ONLY

Log No.

Permit No.

Basin

NOTICE OF INTENT NO. 58345

1. OWNER Washoe County Department of Water Resources
MAILING ADDRESS 4930 Energy Way
Reno, Nevada 89502

ADDRESS AT WELL LOCATION

2. LOCATION SW ¼ SE ¼ Sec 8 T . 18N N/S R 20 E
PERMIT/WAIVER No. M/O 1416 WL060184 / 160-030-01
Issued by Water Resources

Latitude N 39.43446 UTM E NAD 27
Longitude W 119.76145 N NAD 83/WGS 84
Subdivision Name: County: Washoe

3. WORKED PERFORMED
 New Well Replace Recondition
 Deepen Other.....

4. PROPOSED USE
 Domestic Irrigation Test
 Municipal/Industrial Monitor Stock Cable Rotary RVC
 Air Other

5. WELL TYPE

| 6. LITHOLOGIC LOG | | | | |
|--------------------------|--------------|------|-----|-----------|
| Material | Water Strata | From | To | Thickness |
| surface clay | | 0 | 15 | 15 |
| sand and clay | | 15 | 240 | 225 |
| gravel and clay | | 240 | 290 | 50 |
| sand and clay | | 290 | 400 | 110 |
| gravel and clay | | 400 | 440 | 40 |
| clay | | 440 | 600 | 160 |
| Hole plug seal | | 80 | 90 | 10 |
| Gravel | | 90 | 130 | 40 |
| Hole plug seal | | 130 | 230 | 100 |
| Gravel | | 230 | 280 | 50 |
| Hole plug seal | | 280 | 400 | 120 |
| Gravel | | 400 | 460 | 60 |
| Abandoned with hole plug | | 460 | 600 | 140 |

| 8. WELL CONSTRUCTION | | | | |
|--------------------------|------------------------|----------------------------|----------------|--------------|
| Depth Drilled | 600 | Feet | Depth Cased | 450 |
| HOLE DIAMETER (BIT SIZE) | | | | |
| From | 20 | Inches | To | 40 |
| | 12 1/4 | Inches | Feet | 600 |
| | | Inches | Feet | Feet |
| CASING SCHEDULE | | | | |
| Size O.D. (Inches) | Weight/Ft. (Pounds) | Wall Thickness (Inches) | From (Feet) | To (Feet) |
| 14 | | .250 | 0 | 40 |
| 4 1/2 | | .188 | +3 | 450 |

Perforations:

| | |
|---------------------|----------------------|
| Type of perforation | mill slot |
| Size of perforation | 0.09 |
| From | 100 feet to 110 feet |
| From | 250 feet to 260 feet |
| From | 420 feet to 430 feet |
| From | feet to feet |
| From | feet to feet |

Surface Seal: Yes No Seal Type:

Depth of Seal 90 Neat Cement

Placement Method: Pumped Cement Grout
 Poured Concrete Grout

Gravel Packed: Yes No

From 90 feet to 460 feet

9. WATER LEVEL

Static water level 10 feet below land surface
Artesian flow N/A G.P.M. P.S.I.
Water temperature cool °F Quality good

10. DRILLER'S CERTIFICATION

This well was drilled under my supervision and the report is true to the best of my knowledge.

Name Hydro Resources Nevada, Inc. dba Humboldt Drilling & Pump Contractor

Address 4975 W. Winnemucca Blvd. Winnemucca, NV 89445 Contractor

Nevada contractor's license number

issued by the State Contractor's Board 56797

Nevada driller's license number issued by the

Division of Water Resources, the on-site driller 1713

Signed

Judi Beach, Office
By driller performing actual drilling on site or contractor

Date 11/27/06

USE ADDITIONAL SHEETS IF NECESSARY

STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

OFFICE USE ONLY

Log No.

Permit No.

Basin

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

Please complete this form in its entirety in
accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 58344

Double R Blvd

| | | |
|--|--|--|
| 1. OWNER Washoe County Department of Water Resources | ADDRESS AT WELL LOCATION | |
| MAILING ADDRESS 4930 Energy Way | | |
| Reno, Nevada 89502 | | |
| 2. LOCATION NW ¼ NE ¼ Sec 17 T 18N N/S R 20 E | Latitude N39.43258 | UTM E <input checked="" type="checkbox"/> NAD 27 |
| PERMITS/WAIVER No. M/O 1416 WL060185 / 160-040-17 | Longitude W119.75950 | N <input type="checkbox"/> NAD 83/WGS 84 |
| <i>Issued by Water Resources</i> | Parcel No. | Subdivision Name: |
| 3. WORKED PERFORMED | 4. PROPOSED USE | 5. WELL TYPE |
| <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Replace <input type="checkbox"/> Recondition | <input type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input type="checkbox"/> Test | <input type="checkbox"/> Cable <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> RVC |
| <input type="checkbox"/> Deepen <input type="checkbox"/> Other..... | <input type="checkbox"/> Municipal/Industrial <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Stock | <input type="checkbox"/> Air <input type="checkbox"/> Other |

6. LITHOLOGIC LOG

| Material | Water Strata | From | To | Thickness |
|--------------------------------------|--------------|------|-----|-----------|
| surface clay | | 0 | 15 | 15 |
| sand | | 15 | 60 | 45 |
| clay | | 60 | 80 | 20 |
| gravel and clay | | 80 | 120 | 40 |
| sand and clay | | 120 | 165 | 45 |
| clay | | 165 | 175 | 10 |
| sand and clay | | 175 | 200 | 25 |
| gravel and clay | | 200 | 250 | 50 |
| clay | | 250 | 305 | 55 |
| gravel and clay | | 305 | 425 | 120 |
| sand and clay | | 425 | 660 | 235 |
| | | | | |
| hole plug | | 50 | 55 | 5 |
| gravel pack | | 55 | 80 | 25 |
| hole plug | | 80 | 160 | 80 |
| gravel pack | | 160 | 200 | 40 |
| hole plug | | 200 | 320 | 120 |
| gravel pack | | 320 | 360 | 40 |
| hole plug | | 360 | 440 | 80 |
| gravel pack | | 440 | 480 | 40 |
| hole plug | | 480 | 540 | 60 |
| gravel pack | | 540 | 590 | 50 |
| hole plug | | 590 | 660 | 70 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Date started 11/12/2006 , 20 | | | | |
| Date completed 11/15/2006 , 20 | | | | |

7. WELL TEST DATA

| TEST METHOD: | <input type="checkbox"/> Bailer | <input type="checkbox"/> Pump | <input checked="" type="checkbox"/> Air Lift |
|--------------|---------------------------------|----------------------------------|--|
| | G.P.M. | Draw Down (Feet Below Static) | Time (Hours) |
| AIR LIFT | 40 | | 3 hr. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

USE ADDITIONAL SHEETS IF NECESSARY

(Rev. 12-05)

8. WELL CONSTRUCTION

| Depth Drilled | 660 | Feet | Depth Cased | 600 | Feet |
|--------------------------|------------------------|----------------------------|----------------|--------------|------|
| HOLE DIAMETER (BIT SIZE) | | | | | |
| From 20 | Inches | 0 | Feet | 40 | Feet |
| From 12 | Inches | 40 | Feet | 660 | Feet |
| | Inches | | Feet | | |
| CASING SCHEDULE | | | | | |
| Size O.D. (Inches) | Weight/Ft. (Pounds) | Wall Thickness (Inches) | From (Feet) | To (Feet) | |
| 14 | | .250 | 0 | 40 | |
| 4 1/2 | | .188 | +2 | 600 | |
| | | | | | |

Perforations:

| | |
|---------------------|-------------------|
| Type of perforation | mill slot |
| Size of perforation | 0.09 |
| From 60 | feet to 70 |
| From 180 | feet to 190 |
| From 340 | feet to 350 |
| From 460 | feet to 470 |
| From 560 | feet to 580 |

Surface Seal: Yes No Seal Type:

Depth of Seal 50 Neat Cement

Placement Method: Pumped Cement Grout

Poured Concrete Grout

Gravel Packed: Yes No

From 55 feet to 590 feet

9. WATER LEVEL

| | | |
|-------------------------------|--------------|-------------------------|
| Static water level | N/A | feet below land surface |
| Artesian flow 40 gpm | G.P.M. 4 | P.S.I. |
| Water temperature 66 °F | Quality fair | |

10. DRILLER'S CERTIFICATION

This well was drilled under my supervision and the report is true to the best of my knowledge.

Name Hydro Resources Nevada Inc. dba Humboldt Drilling & Pump
Contractor

Address 4975 W. Winnemucca Blvd. Winnemucca, NV 89445
Contractor

Nevada contractor's license number

issued by the State Contractor's Board 56797

Nevada driller's license number issued by the

Division of Water Resources, the on-site driller 1713

Signed

David Beach, Office
By driller performing actual drilling on site or contractor

Date 11/27/06

STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

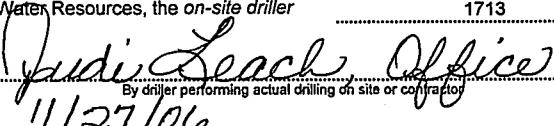
OFFICE USE ONLY

Log No.
Permit No.
Basin

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

Please complete this form in its entirety in
accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 58343

| 1. OWNER Washoe County Department of Water Resources | | ADDRESS AT WELL LOCATION | | 10539 Double R Blvd. Reno, NV | |
|---|--|--|--|---|---|
| MAILING ADDRESS 4930 Energy Way Reno, NV 89502 | | | | | |
| 2. LOCATION SE 1/4 NE 1/4 Sec 17 T 18N N/S R 20 E PERMIT/WAIVER No. M/O 1416 WL060183 /160-070-14 Issued by Water Resources | | Latitude 39.42795 Longitude W119.75527 Parcel No. | UTM E N Subdivision Name: Washoe | 58343 | NAD 27 NAD 83/WGS 84 County: Washoe |
| 3. WORKED PERFORMED | | 4. PROPOSED USE | | 5. WELL TYPE | |
| <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Deepen | <input type="checkbox"/> Replace <input type="checkbox"/> Other.... | <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal/Industrial | <input type="checkbox"/> Irrigation <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Stock | <input type="checkbox"/> Test <input type="checkbox"/> Air | <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Air <input type="checkbox"/> Other <input type="checkbox"/> RVC |
| 6. LITHOLOGIC LOG | | | | | |
| Material | Water Strata | From | To | Thickness | |
| Surface clay | | 0 | 15 | 15 | |
| Sand and clay | | 15 | 60 | 45 | |
| Gravel and clay | | 60 | 150 | 90 | |
| Course gravel | | 150 | 190 | 40 | |
| Clay | | 190 | 210 | 20 | |
| Sand and clay | | 210 | 250 | 40 | |
| Clay and sand | | 250 | 330 | 80 | |
| Gravel and clay | | 330 | 350 | 20 | |
| Clay | | 350 | 390 | 40 | |
| Clay and sand | | 390 | 510 | 120 | |
| Clay and sand layers | | 510 | 525 | 15 | |
| Clay and small sand lenses | | 525 | 600 | 75 | |
| cement | | 0 | 100 | 100 | |
| hole plug | | 100 | 130 | 30 | |
| gravel pack | | 130 | 180 | 50 | |
| hole plug | | 180 | 210 | 30 | |
| gravel pack | | 210 | 260 | 50 | |
| hole plug | | 260 | 300 | 40 | |
| gravel pack | | 300 | 350 | 50 | |
| hole plug | | 350 | 440 | 90 | |
| gravel pack | | 440 | 490 | 50 | |
| hole plug | | 490 | 520 | 30 | |
| gravel pack | | 520 | 570 | 50 | |
| hole plug | | 570 | 600 | 30 | |
| Date started 11/16/2006 , 20 | Date completed 11/19/2006 , 20 | 7. WELL TEST DATA | | | |
| TEST METHOD: <input type="checkbox"/> Bailer <input type="checkbox"/> Pump <input checked="" type="checkbox"/> Air Lift | | | | | |
| G.P.M. | Draw Down (Feet Below Static) | Time (Hours) | | | |
| AIRLIFT | 40 | 2 | | | |
| 8. WELL CONSTRUCTION | | | | | |
| Depth Drilled 600 Feet Depth Cased 570 Feet | | | | | |
| HOLE DIAMETER (BIT SIZE) | | | | | |
| From 20 Inches To 0 Feet 40 Feet | | | | | |
| 12 Inches 40 Feet 600 Feet | | | | | |
| Inches Feet | | | | | |
| CASING SCHEDULE | | | | | |
| Size O.D. (Inches) | Weight/Ft. (Pounds) | Wall Thickness (Inches) | From (Feet) | To (Feet) | |
| 14 | | .250 | 0 | 40 | |
| 12 | | .188 | +3 | 570 | |
| | | | | | |
| Perforations: | | | | | |
| Type of perforation | mill slot | | | | |
| Size of perforation | 0.09 | | | | |
| From 150 | feet to 160 | feet | | | |
| From 230 | feet to 240 | feet | | | |
| From 330 | feet to 340 | feet | | | |
| From 460 | feet to 470 | feet | | | |
| From 540 | feet to 550 | feet | | | |
| Surface Seal: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Seal Type: | | | | |
| Depth of Seal 130 | <input type="checkbox"/> Neat Cement | | | | |
| Placement Method: <input checked="" type="checkbox"/> Pumped <input type="checkbox"/> Poured | <input checked="" type="checkbox"/> Cement Grout <input type="checkbox"/> Concrete Grout | | | | |
| Gravel Packed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| From 130 feet to 570 | feet | | | | |
| 9. WATER LEVEL | | | | | |
| Static water level 3 | feet below land surface | | | | |
| Artesian flow N/A | G.P.M. | P.S.I. | | | |
| Water temperature 66 | °F | Quality | fair | | |
| 10. DRILLER'S CERTIFICATION | | | | | |
| This well was drilled under my supervision and the report is true to the best of my knowledge. | | | | | |
| Name Hydro Resources Nevada, Inc. dba Humboldt Drilling & Pump Contractor | | | | | |
| Address 4975 W. Winnemucca Blvd., Winnemucca, NV 89445 Contractor | | | | | |
| Nevada contractor's license number | | | | | |
| issued by the State Contractor's Board 56797 | | | | | |
| Nevada driller's license number issued by the Division of Water Resources, the on-site driller 1713 | | | | | |
| Signed  | By driller performing actual drilling on site or contractor | | | | |
| Date 11/27/06 | | | | | |

USE ADDITIONAL SHEETS IF NECESSARY

STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

OFFICE USE ONLY

Log No.

Permit No.

Basin

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

Please complete this form in its entirety in
accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO.

57367

1. OWNER Washoe Co Dept. of Water Resources
MAILING ADDRESS 4930 Energy Way
Reno, NV

ADDRESS AT WELL LOCATION

Double Diamond Parkway Well #1

WL #050321

2. LOCATION SE 1/4 NW 1/4 Sec 9 T 18N N/S R 20 E
PERMIT/WAIVER No. M/O1393 160-630-52

Issued by Water Resources

Parcel No.

Latitude 115 0263453

UTM E

NAD 27

Longitude 4369672

N

NAD 83

Subdivision Name:

County: Washoe

3. WORKED PERFORMED
 New Well Replace Recondition
 Deepen Abandon Other.....

PROPOSED USE
 Domestic Irrigation Test
 Municipal/Industrial Monitor Stock Cable Rotary RVC
 Air Other

6. LITHOLOGIC LOG

| Material | Water Strata | From | To | Thickness |
|--------------------|--------------|------|-----|-----------|
| Surface clay | | 0 | 15 | 15 |
| Clay and sand | | 15 | 270 | 255 |
| Sand | | 270 | 350 | 80 |
| Clay | | 350 | 385 | 35 |
| Clay and sand | | 385 | 400 | 15 |
| Clay | | 400 | 560 | 160 |
| Volcanics and clay | | 560 | 620 | 60 |

This well was abandoned from 620'
up to 350' with 7 1/2 yd of cement
grout.

7. WELL CONSTRUCTION

| Depth Drilled | 620 | Feet | Depth Cased | 350 | Feet |
|---------------|-----|------|-------------|-----|------|
|---------------|-----|------|-------------|-----|------|

HOLE DIAMETER (BIT SIZE)

| From | To |
|--------|--------------------|
| 20 | Inches 0 Feet 40 |
| 12 1/4 | Inches 40 Feet 620 |
| | Feet |

CASING SCHEDULE

| Size O.D. (Inches) | Weight/Ft. (Pounds) | Wall Thickness (Inches) | From (Feet) | To (Feet) |
|-----------------------|------------------------|----------------------------|----------------|--------------|
| 14 | | .250 | 1 | 40 |
| 4.5 | | .188 | 2 | 350 |
| | | | | |

Perforations:

Type of perforation Mill slot

Size of perforation 0.9

| | | | | |
|------|-----|---------|-----|------|
| From | 90 | feet to | 100 | feet |
| From | 250 | feet to | 260 | feet |
| From | 330 | feet to | 340 | feet |
| From | | feet to | | feet |
| From | | feet to | | feet |

Surface Seal: Yes No

Seal Type:

Depth of Seal 0-85, 120-200, 270-300

Neat Cement

Placement Method: Pumped

Cement Grout

Poured

Concrete Grout

Gravel Packed: Yes No

From 85-120', 200'-270', 300'-350' feet to.. feet

9. WATER LEVEL

Static water level N/A feet below land surface

Artesian flow 75 GPM G.P.M. 7 P.S.I

Water temperature 70 °F Quality Fair

10. DRILLER'S CERTIFICATION

This well was drilled under my supervision and the report is true to the best of my knowledge.

Name Hydro Resources Nevada, Inc., dba Humboldt Drilling & Pump Co., Inc.
Contractor

Address 4975 W. Winnemucca Blvd.

Contractor

Winnemucca, NV 89445

Nevada contractor's license number

issued by the State Contractor's Board

56797

Nevada driller's license number issued by the

Division of Water Resources, the on-site driller

1713

Signed

C. Jaynes - Office

By driller performing actual drilling on site or contractor

Date

2/16/2006

USE ADDITIONAL SHEETS IF NECESSARY

**STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT**

**PRINT OR TYPE ONLY
DO NOT WRITE ON BACK**

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

OFFICE USE ONLY

Log No.

Permit No.

Basin

NOTICE OF INTENT NO. 57369

USE ADDITIONAL SHEETS IF NECESSARY

Tremmie Tally

Job

Date 2/7/2006 stick up 4'

| Piece No. | Length | Cumulative Length | | | |
|-----------|--------|-------------------|------------|---------|--------|
| 1 | 10 | 10 | 10 blank | 0-115 | cement |
| 2 | 40 | 50 | 50 blank | 115-150 | gravel |
| 3 | 40 | 90 | 90 blank | 150-190 | plug |
| 4 | 40 | 130 | 130 blank | 190-220 | gravel |
| 5 | 10 | 140 | 140 screen | 220-270 | plug |
| 6 | 40 | 180 | 180 blank | 270-300 | gravel |
| 7 | 20 | 200 | 200 blank | 300-400 | plug |
| 8 | 10 | 210 | 210 screen | 400-430 | gravel |
| 9 | 40 | 250 | 250 blank | 430-500 | plug |
| 10 | 30 | 280 | 280 blank | 500-530 | gravel |
| 11 | 10 | 290 | 290 screen | 530-730 | plug |
| 12 | 40 | 330 | 330 blank | 730-760 | gravel |
| 13 | 40 | 370 | 370 blank | 760-800 | plug |
| 14 | 40 | 410 | 410 blank | 800-840 | gravel |
| 15 | 10 | 420 | 420 screen | 840-890 | plug |
| 16 | 40 | 460 | 460 blank | 890-960 | gravel |
| 17 | 40 | 500 | 500 blank | | |
| 18 | 10 | 510 | 510 blank | | |
| 19 | 10 | 520 | 520 screen | | |
| 20 | 40 | 560 | 560 blank | | |
| 21 | 40 | 600 | 600 blank | | |
| 22 | 40 | 640 | 640 blank | | |
| 23 | 40 | 680 | 680 blank | | |
| 24 | 40 | 720 | 720 blank | | |
| 25 | 20 | 740 | 740 blank | | |
| 26 | 10 | 750 | 750 screen | | |
| 27 | 40 | 790 | 790 blank | | |
| 28 | 20 | 810 | 810 blank | | |
| 29 | 20 | 830 | 830 screen | | |
| 30 | 40 | 870 | 870 blank | | |
| 31 | 30 | 900 | 900 blank | | |
| 32 | 20 | 920 | 920 screen | | |
| 33 | 10 | 930 | 930 blank | | |

STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

**PRINT OR TYPE ONLY
DO NOT WRITE ON BACK.**

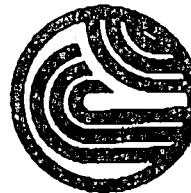
Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

OFFICE USE ONLY

Log No.

NOTICE OF INTENT NO. 57380

USE ADDITIONAL SHEETS IF NECESSARY



Laboratory Report

Report ID: 73783

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: John Hulett
4930 Energy Way
Reno, NV 89520

Date: 2/10/2006
Client: WAS-500
Taken by: D. Dragan
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received |
|-----------------------------------|--------------------|---------|------------------------|---------------|-------------------------|
| | STM #1 | 90-100 | 2/2/2006 | 12:05 PM | 2/2/2006 |
| Parameter | Method | Result | Units | MCL | Date Analyzed Data Flag |
| Alkalinity, Total | SM 2320 B | 156 | mg/L CaCO ₃ | Pacheco | 2/2/2006 |
| Alkalinity/Bicarbonate | SM 2320 B | 130 | mg/L CaCO ₃ | Pacheco | 2/2/2006 |
| Alkalinity/Carboante | SM 2320 B | 26 | mg/L CaCO ₃ | Pacheco | 2/2/2006 |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | Pacheco | 2/2/2006 |
| Antimony - ICP-MS | EPA 200.8 | 0.014 | mg/L | 0.006 mg/L | Li 2/6/2006 |
| Arsenic - ICP-MS | EPA 200.8 | 0.11 | mg/L | 0.01 mg/L | Li 2/6/2006 |
| Barium - ICP-MS | EPA 200.8 | 4.0 | mg/L | 2.0 mg/L | Li 2/7/2006 |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.004 mg/L | Li 2/6/2006 |
| Boron - ICP-OES | EPA 200.7 | 5 | mg/L | | Keller 2/6/2006 |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.005 mg/L | Li 2/6/2006 |
| Calcium - ICP-OES | EPA 200.7 | 19 | mg/L | | Keller 2/6/2006 |
| Chloride - Ion Chromatography | EPA 300.0 | 59 | mg/L | 250 mg/L | Henderson 2/2/2006 |
| Chromium - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.1 mg/L | Li 2/6/2006 |
| Color Apparent | EPA 110.2 | <5 | Color Units | 15 | Pacheco 2/3/2006 |
| Copper - ICP-MS | EPA 200.8 | 0.005 | mg/L | 1.0 mg/L | Li 2/6/2006 |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.3 | mg/L | 2.0/4.0 mg/L | Henderson 2/2/2006 |
| Iron - ICP-OES | EPA 200.7 | 0.81 | mg/L | 0.3 mg/L | Keller 2/6/2006 |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.015 mg/L | Li 2/6/2006 |
| Magnesium - ICP-OES | EPA 200.7 | 5.5 | mg/L | 125 mg/L | Keller 2/6/2006 |
| Manganese - ICP-MS | EPA 200.8 | 0.033 | mg/L | 0.05 mg/L | Li 2/6/2006 |
| MBAS Surfactants | SM 5540 C | <0.1 | mg/L | 0.5 mg/L | Pacheco 2/3/2006 |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth 2/8/2006 |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.1 mg/L | Li 2/6/2006 |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 0.63 | mg/L N | 10 mg/L as N | Henderson 2/2/2006 |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson 2/2/2006 |
| NO ₃ + NO ₂ | EPA 300.0 | <0.68 | mg/L N | | Henderson 2/2/2006 |
| pH | SM 4500 H+B | 8.64 | pH Units | 6.5 to 8.5 | Pacheco 2/2/2006 |
| pH - Temperature | SM 4500 H+B | 20.8 | °C | | Pacheco 2/2/2006 |
| Potassium - ICP-OES | EPA 200.7 | 11 | mg/L | | Keller 2/6/2006 |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.05 mg/L | Li 2/6/2006 |
| Sodium - ICP-OES | EPA 200.7 | 80 | mg/L | | Keller 2/6/2006 |
| Sulfate - Ion Chromatography | EPA 300.0 | 14 | mg/L | 500 mg/L | Henderson 2/2/2006 |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.002 mg/L | Li 2/7/2006 |
| Total Dissolved Solids | SM 2540 C | 410 | mg/L | 500/1000 mg/L | Pacheco 2/3/2006 |

John Kobza, Ph.D.
Laboratory Director

Page 6 of 9
1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager



Laboratory Report
Report ID: 73783

**Sierra
 Environmental
 Monitoring, Inc.**

Washoe County Dept. of Water Resources
 Attn: John Hulcett
 4930 Energy Way
 Reno, NV 89520

Date: 2/10/2006
 Client: WAS-500
 Taken by: D. Dragan
 PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-------------------------------------|--------------------|---------------|--------------|--------------|---------------|---------------|-----------|
| | S200602-0174 | STM #1 90-100 | | | 2/2/2006 | 12:05 PM | 2/2/2006 |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 2/6/2006 | |
| Turbidity | SM 2130 B | 5.0 | NTU | | Pacheco | 2/3/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.03 | mg/L | 5 mg/L | Li | 2/6/2006 | |

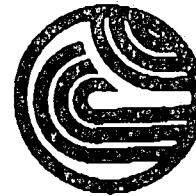
SAMPLE WATER AS TESTED DID ✓ DID NOT MEET DRINKING WATER STANDARDS. AS

Data Flag Legend:

John Kobza, Ph.D.
 Laboratory Director

Page 7 of 9
 1135 Financial Blvd.
 Reno, NV 89502-2348
 Phone (775) 857-2400
 FAX (775) 857-2404
 sem@sem-analytical.com

John C. Seher
 Special Consultant
 Quality Assurance Manager



Laboratory Report

Report ID: 73783

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: John Hulett
4930 Energy Way
Reno, NV 89520

Date: 2/10/2006
Client: WAS-500
Taken by: D. Dragan
PO #: 5500001829

Analysis Report

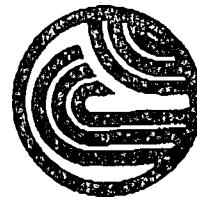
| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received |
|-----------------------------------|--------------------|---------|------------------------|---------------|---------------|
| | STM #1 | 250-260 | | | |
| S200602-0173 | | | 2/2/2006 | 9:00 AM | 2/2/2006 |
| Parameter | Method | Result | Units | MCL | Analyst |
| Alkalinity, Total | SM 2320 B | 120 | mg/L CaCO ₃ | | Pacheco |
| Alkalinity/Bicarbonate | SM 2320 B | 120 | mg/L CaCO ₃ | | Pacheco |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco |
| Antimony - ICP-MS | EPA 200.8 | 0.001 | mg/L | 0.006 mg/L | Li |
| Arsenic - ICP-MS | EPA 200.8 | 0.043 | mg/L | 0.01 mg/L | Li |
| Barium - ICP-MS | EPA 200.8 | 0.30 | mg/L | 2.0 mg/L | Li |
| Beryllium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.004 mg/L | Li |
| Boron - ICP-OES | EPA 200.7 | 0.94 | mg/L | | Keller |
| Cadmium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.005 mg/L | Li |
| Calcium - ICP-OES | EPA 200.7 | 24 | mg/L | | Keller |
| Chloride - Ion Chromatography | EPA 300.0 | 26 | mg/L | 250 mg/L | Henderson |
| Chromium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li |
| Color Apparent | EPA 110.2 | <5 | Color Units | 15 | Pacheco |
| Copper - ICP-MS | EPA 200.8 | 0.001 | mg/L | 1.0 mg/L | Li |
| Fluoride - Ion Chromatography | EPA 300.0 | <0.1 | mg/L | 2.0/4.0 mg/L | Henderson |
| Iron - ICP-OES | EPA 200.7 | <0.05 | mg/L | 0.3 mg/L | Keller |
| Lead - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.015 mg/L | Li |
| Magnesium - ICP-OES | EPA 200.7 | 7.6 | mg/L | 125 mg/L | Keller |
| Manganese - ICP-MS | EPA 200.8 | 0.024 | mg/L | 0.05 mg/L | Li |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.5 mg/L | Pacheco |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth |
| Nickel - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson |
| pH | SM 4500 H+B | 8.24 | pH Units | 6.5 to 8.5 | Pacheco |
| pH - Temperature | SM 4500 H+B | 20.6 | °C | | Pacheco |
| Potassium - ICP-OES | EPA 200.7 | 10 | mg/L | | Keller |
| Selenium - ICP-MS | EPA 200.8 | <0.005 | mg/L | 0.05 mg/L | Li |
| Sodium - ICP-OES | EPA 200.7 | 27 | mg/L | | Keller |
| Sulfate - Ion Chromatography | EPA 300.0 | 9.2 | mg/L | 500 mg/L | Henderson |
| Thallium - ICP-MS | EPA 200.8 | <0.0005 | mg/L | 0.002 mg/L | Li |
| Total Dissolved Solids | SM 2540 C | 230 | mg/L | 500/1000 mg/L | Pacheco |

Page 4 of 9

John Kobza, Ph.D.
Laboratory Director

1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager



Laboratory Report
Report ID: 73783

**Sierra
Environmental
Monitoring, Inc.**

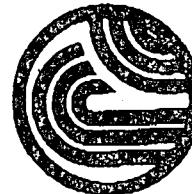
Washoe County Dept. of Water Resources
Attn: John Hulett
4930 Energy Way
Reno, NV 89520

Date: 2/10/2006
Client: WAS-500
Taken by: D. Dragan
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled 2/2/2006 | Time Sampled 9:00 AM | Date Received 2/2/2006 | Date Analyzed | Data Flag |
|---------------|--------------------|----------------|--------------------------|-------------------------|---------------------------|---------------|-----------|
| | S200602-0173 | STM #1 250-260 | | | | | |
| Parameter | Method | Result | Units | MCL | Analyst | | |
| Turbidity | SM 2130 B | 0.8 | NTU | | Pacheco | 2/3/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.019 | mg/L | 5 mg/L | Li | 2/3/2006 | |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS. As



Laboratory Report

Report ID: 73783

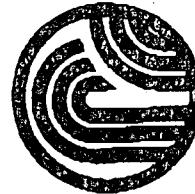
Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: John Hulett
4930 Energy Way
Reno, NV 89520

Date: 2/10/2006
Client: WAS-500
Taken by: D. Dragan
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-----------------------------------|--------------------|---------|------------------------|---------------|---------------|---------------|-----------|
| | STM #1 330-340 | | 2/1/2006 | 5:00 PM | 2/2/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 113 | mg/L CaCO ₃ | | Pacheco | 2/2/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 108 | mg/L CaCO ₃ | | Pacheco | 2/2/2006 | |
| Alkalinity/Carbonate | SM 2320 B | 5 | mg/L CaCO ₃ | | Pacheco | 2/2/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/2/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.006 mg/L | Li | 2/3/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.053 | mg/L | 0.01 mg/L | Li | 2/3/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.31 | mg/L | 2.0 mg/L | Li | 2/3/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.004 mg/L | Li | 2/3/2006 | |
| Boron - ICP-OES | EPA 200.7 | 1.0 | mg/L | | Keller | 2/3/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.005 mg/L | Li | 2/3/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 18 | mg/L | | Keller | 2/3/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 18 | mg/L | 250 mg/L | Henderson | 2/2/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | 2/3/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 15 | Pacheco | 2/3/2006 | |
| Copper - ICP-MS | EPA 200.8 | <0.001 | mg/L | 1.0 mg/L | Li | 2/3/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | <0.1 | mg/L | 2.0/4.0 mg/L | Henderson | 2/2/2006 | |
| Iron - ICP-OES | EPA 200.7 | 0.06 | mg/L | 0.3 mg/L | Keller | 2/3/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.015 mg/L | Li | 2/3/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 3.8 | mg/L | 125 mg/L | Keller | 2/3/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.11 | mg/L | 0.05 mg/L | Li | 2/3/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.5 mg/L | Pacheco | 2/3/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 2/9/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | 2/3/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 2/2/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 2/2/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 2/2/2006 | |
| pH | SM 4500 H+B | 8.41 | pH Units | 6.5 to 8.5 | Pacheco | 2/2/2006 | |
| pH - Temperature | SM 4500 H+B | 20.5 | °C | | Pacheco | 2/2/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 9.4 | mg/L | | Keller | 2/3/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.005 | mg/L | 0.05 mg/L | Li | 2/3/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 31 | mg/L | | Keller | 2/3/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 9.2 | mg/L | 500 mg/L | Henderson | 2/2/2006 | |
| Thallium - ICP-MS | EPA 200.8 | <0.0005 | mg/L | 0.002 mg/L | Li | 2/3/2006 | |
| Total Dissolved Solids | SM 2540 C | 220 | mg/L | 500/1000 mg/L | Pacheco | 2/3/2006 | |



Laboratory Report
Report ID: 73783

**Sierra
 Environmental
 Monitoring, Inc.**

Washoe County Dept. of Water Resources
 Attn: John Hulett
 4930 Energy Way
 Reno, NV 89520

Date: 2/10/2006
 Client: WAS-500
 Taken by: D. Dragan
 PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|---------------|--------------------|--------|--------------|--------------|---------------|---------------|-----------|
| S200602-0172 | STM #1 330-340 | | 2/1/2006 | 5:00 PM | 2/2/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Turbidity | SM 2130 B | 1.2 | NTU | | Pacheco | 2/3/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.015 | mg/L | 5 mg/L | Li | 2/3/2006 | |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS. As

John Kobza, Ph.D.
 Laboratory Director

Page 3 of 9

1135 Financial Blvd.
 Reno, NV 89502-2348
 Phone (775) 857-2400
 FAX (775) 857-2404
 sem@sem-analytical.com

John C. Seher
 Special Consultant
 Quality Assurance Manager



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-----------------------------------|----------------------------|---------|------------------------|--------------|---------------|---------------|-----------|
| S200602-1457 | Steamboat Pkwy - 130'-140' | | 2/21/2006 | 11:50 AM | 2/22/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 240 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 240 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.016 | mg/L | 0.006 mg/L | Li | 2/28/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.25 | mg/L | 0.01 mg/L | Li | 2/28/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.94 | mg/L | 2.0 mg/L | Li | 2/28/2006 | JL |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.004 mg/L | Li | 2/28/2006 | |
| Boron - ICP-OES | EPA 200.7 | 16 | mg/L | | Keller | 2/27/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.005 mg/L | Li | 2/28/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 30 | mg/L | | Keller | 2/27/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 330 | mg/L | 250 mg/L | Henderson | 2/24/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.1 mg/L | Li | 2/28/2006 | |
| Color Apparent | EPA 110.2 | 20 | Color Units | 15 | Pacheco | 2/22/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.003 | mg/L | 1.0 mg/L | Li | 2/28/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.5 | mg/L | 2.0/4.0 mg/L | Henderson | 2/23/2006 | |
| Iron - ICP-OES | EPA 200.7 | 1.6 | mg/L | 0.3 mg/L | Keller | 2/27/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.015 mg/L | Li | 2/28/2006 | |
| Lithium - ICP-OES | EPA 200.7 | 1.8 | mg/L | | Keller | 2/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 8.7 | mg/L | 125 mg/L | Keller | 2/27/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.13 | mg/L | 0.05 mg/L | Li | 2/28/2006 | |
| MBAS Surfactants | SM 5540 C | 0.06 | mg/L | 0.5 mg/L | Pacheco | 2/22/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 2/27/2006 | |
| Nickel - ICP-MS | EPA 200.8 | 0.019 | mg/L | 0.1 mg/L | Li | 2/28/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 2/23/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 2/23/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 2/23/2006 | |
| pH | SM 4500 H+B | 8.09 | pH Units | 6.5 to 8.5 | Pacheco | 2/23/2006 | |
| pH - Temperature | SM 4500 H+B | 17.7 | °C | | Pacheco | 2/23/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 32 | mg/L | | Keller | 2/27/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.05 mg/L | Li | 2/28/2006 | |
| Silica - ICP-OES | EPA 200.7 | 150 | mg/L | | Keller | 2/27/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 300 | mg/L | | Keller | 2/27/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 110 | mg/L | 500 mg/L | Henderson | 2/24/2006 | |



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | Date Analyzed | Data Flag |
|-------------------------------------|----------------------------|-----------|--------------|---------------|---------------|---------------|-----------|
| | Steamboat Pkwy - 130'-140' | | | | | | |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.002 mg/L | Li | 2/28/2006 | |
| Total Dissolved Solids | SM 2540 C | 1200 | mg/L | 500/1000 mg/L | Pacheco | 2/24/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 2/27/2006 | |
| Turbidity | SM 2130 B | 6.3 | NTU | | Pacheco | 2/22/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.09 | mg/L | 5 mg/L | Li | 2/28/2006 | |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-----------------------------------|----------------------------|---------|------------------------|--------------|--------------|---------------|-----------|
| S200602-1458 | Steamboat Pkwy - 200'-210' | | | 2/21/2006 | 1:10 PM | 2/22/2006 | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 250 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 250 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.006 | mg/L | 0.006 mg/L | Li | 2/28/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.29 | mg/L | 0.01 mg/L | Li | 2/28/2006 | |
| Barium - ICP-MS | EPA 200.8 | 1.8 | mg/L | 2.0 mg/L | Li | 2/28/2006 | JL |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.004 mg/L | Li | 2/28/2006 | |
| Boron - ICP-OES | EPA 200.7 | 17 | mg/L | | Keller | 2/27/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.005 mg/L | Li | 2/28/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 33 | mg/L | | Keller | 2/27/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 340 | mg/L | 250 mg/L | Henderson | 2/24/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.1 mg/L | Li | 2/28/2006 | |
| Color Apparent | EPA 110.2 | 20 | Color Units | 15 | Pacheco | 2/22/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.004 | mg/L | 1.0 mg/L | Li | 2/28/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.6 | mg/L | 2.0/4.0 mg/L | Henderson | 2/23/2006 | |
| Iron - ICP-OES | EPA 200.7 | 3 | mg/L | 0.3 mg/L | Keller | 2/27/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.015 mg/L | Li | 2/28/2006 | |
| Lithium - ICP-OES | EPA 200.7 | 1.9 | mg/L | | Keller | 2/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 9.4 | mg/L | 125 mg/L | Keller | 2/27/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.12 | mg/L | 0.05 mg/L | Li | 2/28/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.5 mg/L | Pacheco | 2/22/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 2/27/2006 | |
| Nickel - ICP-MS | EPA 200.8 | 0.006 | mg/L | 0.1 mg/L | Li | 2/28/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 2/23/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 2/23/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 2/23/2006 | |
| pH | SM 4500 H+B | 8.06 | pH Units | 6.5 to 8.5 | Pacheco | 2/23/2006 | |
| pH - Temperature | SM 4500 H+B | 18.3 | °C | | Pacheco | 2/23/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 32 | mg/L | | Keller | 2/27/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.05 mg/L | Li | 2/28/2006 | |
| Silica - ICP-OES | EPA 200.7 | 150 | mg/L | | Keller | 2/27/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 300 | mg/L | | Keller | 2/27/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 110 | mg/L | 500 mg/L | Henderson | 2/24/2006 | |



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-------------------------------------|----------------------------|-----------|-------|---------------|--------------|---------------|-----------|
| | Steamboat Pkwy - 200'-210' | | | 2/21/2006 | 1:10 PM | 2/22/2006 | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.002 mg/L | Li | 2/28/2006 | |
| Total Dissolved Solids | SM 2540 C | 1300 | mg/L | 500/1000 mg/L | Pacheco | 2/24/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 2/27/2006 | |
| Turbidity | SM 2130 B | 10 | NTU | | Pacheco | 2/22/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.03 | mg/L | 5 mg/L | Li | 2/28/2006 | |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report
Report ID: 74174

**Sierra
Environmental
Monitoring, Inc.**

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | Date Analyzed | Data Flag |
|-----------------------------------|----------------------------|---------|------------------------|--------------|--------------|---------------|---------------|-----------|
| | Steamboat Pkwy - 280'-290' | | | | | | | |
| Alkalinity, Total | SM 2320 B | 230 | mg/L CaCO ₃ | Pacheco | 2/21/2006 | 2:10 PM | 2/22/2006 | 2/23/2006 |
| Alkalinity/Bicarbonate | SM 2320 B | 230 | mg/L CaCO ₃ | Pacheco | | | | 2/23/2006 |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | Pacheco | | | | 2/23/2006 |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | Pacheco | | | | 2/23/2006 |
| Antimony - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.006 mg/L | Li | 3/1/2006 | | |
| Arsenic - ICP-MS | EPA 200.8 | 0.21 | mg/L | 0.01 mg/L | Li | 3/1/2006 | | |
| Barium - ICP-MS | EPA 200.8 | 0.078 | mg/L | 2.0 mg/L | Li | 3/1/2006 | | |
| Beryllium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.004 mg/L | Li | 3/1/2006 | | |
| Boron - ICP-OES | EPA 200.7 | 16 | mg/L | | Keller | 2/24/2006 | | |
| Cadmium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.005 mg/L | Li | 3/1/2006 | | |
| Calcium - ICP-OES | EPA 200.7 | 34 | mg/L | | Keller | 2/24/2006 | | |
| Chloride - Ion Chromatography | EPA 300.0 | 360 | mg/L | 250 mg/L | Henderson | 2/24/2006 | | |
| Chromium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | 3/1/2006 | | |
| Color Apparent | EPA 110.2 | 20 | Color Units | 15 | Pacheco | 2/22/2006 | | |
| Copper - ICP-MS | EPA 200.8 | 0.002 | mg/L | 1.0 mg/L | Li | 3/1/2006 | | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.3 | mg/L | 2.0/4.0 mg/L | Henderson | 2/23/2006 | | |
| Iron - ICP-OES | EPA 200.7 | 2.0 | mg/L | 0.3 mg/L | Keller | 2/24/2006 | | |
| Lead - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.015 mg/L | Li | 3/1/2006 | | |
| Lithium - ICP-OES | EPA 200.7 | 1.6 | mg/L | | Keller | 2/27/2006 | | |
| Magnesium - ICP-OES | EPA 200.7 | 9.8 | mg/L | 125 mg/L | Keller | 2/24/2006 | | |
| Manganese - ICP-MS | EPA 200.8 | 0.084 | mg/L | 0.05 mg/L | Li | 3/1/2006 | | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.5 mg/L | Pacheco | 2/22/2006 | | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 2/27/2006 | | |
| Nickel - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | 3/1/2006 | | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 2/23/2006 | | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 2/23/2006 | | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 2/23/2006 | | |
| pH | SM 4500 H+B | 8.10 | pH Units | 6.5 to 8.5 | Pacheco | 2/23/2006 | | |
| pH - Temperature | SM 4500 H+B | 17.6 | °C | | Pacheco | 2/23/2006 | | |
| Potassium - ICP-OES | EPA 200.7 | 31 | mg/L | | Keller | 2/24/2006 | | |
| Selenium - ICP-MS | EPA 200.8 | <0.005 | mg/L | 0.05 mg/L | Li | 3/1/2006 | | |
| Silica - ICP-OES | EPA 200.7 | 160 | mg/L | | Keller | 2/27/2006 | | |
| Sodium - ICP-OES | EPA 200.7 | 290 | mg/L | | Keller | 2/24/2006 | | |
| Sulfate - Ion Chromatography | EPA 300.0 | 120 | mg/L | 500 mg/L | Henderson | 2/24/2006 | | C |



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|------------------------|----------------------------|---------|-------|---------------|--------------|---------------|-----------|
| | Steamboat Pkwy - 280'-290' | | | | | 2/21/2006 | 2:10 PM |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.0005 | mg/L | 0.002 mg/L | Li | 3/1/2006 | |
| Total Dissolved Solids | SM 2540 C | 1200 | mg/L | 500/1000 mg/L | Pacheco | 2/24/2006 | |
| Turbidity | SM 2130 B | 11 | NTU | | Pacheco | 2/22/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.014 | mg/L | 5 mg/L | Li | 3/1/2006 | |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-----------------------------------|----------------------------|---------|------------------------|--------------|--------------|---------------|-----------|
| | Steamboat Pkwy - 410'-420' | | | 2/21/2006 | 3:10 PM | 2/22/2006 | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 230 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 230 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.006 mg/L | Li | 3/1/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.22 | mg/L | 0.01 mg/L | Li | 3/1/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.085 | mg/L | 2.0 mg/L | Li | 3/1/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.004 mg/L | Li | 3/1/2006 | |
| Boron - ICP-OES | EPA 200.7 | 17 | mg/L | | Keller | 2/24/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.005 mg/L | Li | 3/1/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 35 | mg/L | | Keller | 2/24/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 340 | mg/L | 250 mg/L | Henderson | 2/23/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | 3/1/2006 | |
| Color Apparent | EPA 110.2 | 15 | Color Units | 15 | Pacheco | 2/22/2006 | |
| Copper - ICP-MS | EPA 200.8 | <0.001 | mg/L | 1.0 mg/L | Li | 3/1/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.3 | mg/L | 2.0/4.0 mg/L | Henderson | 2/23/2006 | |
| Iron - ICP-OES | EPA 200.7 | 2.6 | mg/L | 0.3 mg/L | Keller | 2/24/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.015 mg/L | Li | 3/1/2006 | |
| Lithium - ICP-OES | EPA 200.7 | 1.6 | mg/L | | Keller | 2/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 9.9 | mg/L | 125 mg/L | Keller | 2/24/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.029 | mg/L | 0.05 mg/L | Li | 3/1/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.5 mg/L | Pacheco | 2/22/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 2/27/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | 3/1/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 2/23/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 2/23/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 2/23/2006 | |
| pH | SM 4500 H+B | 7.54 | pH Units | 6.5 to 8.5 | Pacheco | 2/23/2006 | |
| pH - Temperature | SM 4500 H+B | 17.6 | °C | | Pacheco | 2/23/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 31 | mg/L | | Keller | 2/24/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.005 | mg/L | 0.05 mg/L | Li | 3/1/2006 | |
| Silica - ICP-OES | EPA 200.7 | 160 | mg/L | | Keller | 2/27/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 290 | mg/L | | Keller | 2/24/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 120 | mg/L | 500 mg/L | Henderson | 2/23/2006 | |

Page 2 of 20

John Kobza, Ph.D.
Laboratory Director

1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager

C



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: S200602-1452 | Customer Sample ID | | Date Sampled 2/21/2006 | Time Sampled 3:10 PM | Date Received 2/22/2006 | Date Analyzed | Data Flag |
|----------------------------|----------------------------|---------|---------------------------|-------------------------|----------------------------|---------------|-----------|
| | Steamboat Pkwy - 410'-420' | | | | | | |
| Parameter | Method | Result | Units | MCL | Analyst | | |
| Thallium - ICP-MS | EPA 200.8 | <0.0005 | mg/L | 0.002 mg/L | Li | 3/1/2006 | |
| Total Dissolved Solids | SM 2540 C | 1200 | mg/L | 500/1000 mg/L | Pacheco | 2/24/2006 | |
| Turbidity | SM 2130 B | 3.7 | NTU | | Pacheco | 2/22/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.011 | mg/L | 5 mg/L | Li | 3/1/2006 | |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-----------------------------------|----------------------------|---------|------------------------|--------------|--------------|---------------|-----------|
| S200602-1453 | Steamboat Pkwy - 510'-520' | | | 2/21/2006 | 3:50 PM | 2/22/2006 | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 280 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 280 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.006 mg/L | Li | 3/1/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.23 | mg/L | 0.01 mg/L | Li | 3/1/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.13 | mg/L | 2.0 mg/L | Li | 3/1/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.004 mg/L | Li | 3/1/2006 | |
| Boron - ICP-OES | EPA 200.7 | 25 | mg/L | | Keller | 2/24/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.005 mg/L | Li | 3/1/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 39 | mg/L | | Keller | 2/24/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 590 | mg/L | 250 mg/L | Henderson | 2/23/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | 3/1/2006 | |
| Color Apparent | EPA 110.2 | 15 | Color Units | 15 | Pacheco | 2/22/2006 | |
| Copper - ICP-MS | EPA 200.8 | <0.001 | mg/L | 1.0 mg/L | Li | 3/1/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.3 | mg/L | 2.0/4.0 mg/L | Henderson | 2/23/2006 | |
| Iron - ICP-OES | EPA 200.7 | 1.9 | mg/L | 0.3 mg/L | Keller | 2/24/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.015 mg/L | Li | 3/1/2006 | |
| Lithium - ICP-OES | EPA 200.7 | 3.0 | mg/L | | Keller | 2/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 13 | mg/L | 125 mg/L | Keller | 2/24/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.16 | mg/L | 0.05 mg/L | Li | 3/1/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.5 mg/L | Pacheco | 2/22/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 2/27/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | 3/1/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 2/23/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 2/23/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 2/23/2006 | |
| pH | SM 4500 H+B | 7.77 | pH Units | 6.5 to 8.5 | Pacheco | 2/23/2006 | |
| pH - Temperature | SM 4500 H+B | 16.8 | °C | | Pacheco | 2/23/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 26 | mg/L | | Keller | 2/24/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.005 | mg/L | 0.05 mg/L | Li | 3/1/2006 | |
| Silica - ICP-OES | EPA 200.7 | 130 | mg/L | | Keller | 2/27/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 470 | mg/L | | Keller | 2/24/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 95 | mg/L | 500 mg/L | Henderson | 2/23/2006 | |



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: S200602-1453 | Customer Sample ID | | Date Sampled 2/21/2006 | Time Sampled 3:50 PM | Date Received 2/22/2006 | | |
|----------------------------|----------------------------|---------|---------------------------|-------------------------|----------------------------|---------------|-----------|
| | Steamboat Pkwy - 510'-520' | | | | | Date Analyzed | Data Flag |
| Parameter | Method | Result | Units | MCL | Analyst | | |
| Thallium - ICP-MS | EPA 200.8 | <0.0005 | mg/L | 0.002 mg/L | Li | 3/1/2006 | |
| Total Dissolved Solids | SM 2540 C | 1700 | mg/L | 500/1000 mg/L | Pacheco | 2/24/2006 | |
| Turbidity | SM 2130 B | 2.7 | NTU | | Pacheco | 2/22/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.044 | mg/L | 5 mg/L | Li | 3/1/2006 | |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-----------------------------------|--------------------|---------|------------------------|--------------|---------------|---------------|-----------|
| | | | 2/21/2006 | 4:30 PM | 2/22/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 220 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 220 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 2/23/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.006 mg/L | Li | 3/1/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.22 | mg/L | 0.01 mg/L | Li | 3/1/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.067 | mg/L | 2.0 mg/L | Li | 3/1/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.004 mg/L | Li | 3/1/2006 | |
| Boron - ICP-OES | EPA 200.7 | 15 | mg/L | | Keller | 2/24/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.005 mg/L | Li | 3/1/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 35 | mg/L | | Keller | 2/24/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 310 | mg/L | 250 mg/L | Henderson | 2/23/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | 3/1/2006 | |
| Color Apparent | EPA 110.2 | 20 | Color Units | 15 | Pacheco | 2/22/2006 | |
| Copper - ICP-MS | EPA 200.8 | <0.001 | mg/L | 1.0 mg/L | Li | 3/1/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.3 | mg/L | 2.0/4.0 mg/L | Henderson | 2/23/2006 | |
| Iron - ICP-OES | EPA 200.7 | 2.3 | mg/L | 0.3 mg/L | Keller | 2/24/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.015 mg/L | Li | 3/1/2006 | |
| Lithium - ICP-OES | EPA 200.7 | 1.5 | mg/L | | Keller | 2/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 9.9 | mg/L | 125 mg/L | Keller | 2/24/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.032 | mg/L | 0.05 mg/L | Li | 3/1/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.5 mg/L | Pacheco | 2/22/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 2/27/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | 3/1/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 2/23/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 2/23/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 2/23/2006 | |
| pH | SM 4500 H+B | 7.63 | pH Units | 6.5 to 8.5 | Pacheco | 2/23/2006 | |
| pH - Temperature | SM 4500 H+B | 17.1 | °C | | Pacheco | 2/23/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 31 | mg/L | | Keller | 2/24/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.005 | mg/L | 0.05 mg/L | Li | 3/1/2006 | |
| Silica - ICP-OES | EPA 200.7 | 170 | mg/L | | Keller | 2/27/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 280 | mg/L | | Keller | 2/24/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 120 | mg/L | 500 mg/L | Henderson | 2/23/2006 | C |



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|------------------------|----------------------------|---------|--------------|---------------|---------------|---------------|-----------|
| S200602-1454 | Steamboat Pkwy - 740'-750' | | 2/21/2006 | 4:30 PM | 2/22/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.0005 | mg/L | 0.002 mg/L | Li | 3/1/2006 | |
| Total Dissolved Solids | SM 2540 C | 1200 | mg/L | 500/1000 mg/L | Pacheco | 2/24/2006 | |
| Turbidity | SM 2130 B | 3.0 | NTU | | Pacheco | 2/22/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.24 | mg/L | 5 mg/L | Li | 3/1/2006 | |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report
Report ID: 74174

**Sierra
Environmental
Monitoring, Inc.**

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | Date Analyzed | Data Flag |
|-----------------------------------|----------------------------|---------|------------------------|--------------|--------------|---------------|---------------|-----------|
| | Steamboat Pkwy - 810'-830' | | | | | | | |
| Alkalinity, Total | SM 2320 B | 220 | mg/L CaCO ₃ | Pacheco | 2/21/2006 | 5:00 PM | 2/22/2006 | 2/23/2006 |
| Alkalinity/Bicarbonate | SM 2320 B | 220 | mg/L CaCO ₃ | Pacheco | | | | 2/23/2006 |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | Pacheco | | | | 2/23/2006 |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | Pacheco | | | | 2/23/2006 |
| Antimony - ICP-MS | EPA 200.8 | 0.002 | mg/L | 0.006 mg/L | Li | | | 3/1/2006 |
| Arsenic - ICP-MS | EPA 200.8 | 0.25 | mg/L | 0.01 mg/L | Li | | | 3/1/2006 |
| Barium - ICP-MS | EPA 200.8 | 0.11 | mg/L | 2.0 mg/L | Li | | | 3/1/2006 |
| Beryllium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.004 mg/L | Li | | | 3/1/2006 |
| Boron - ICP-OES | EPA 200.7 | 15 | mg/L | | Keller | | | 2/24/2006 |
| Cadmium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.005 mg/L | Li | | | 3/1/2006 |
| Calcium - ICP-OES | EPA 200.7 | 39 | mg/L | | Keller | | | 2/24/2006 |
| Chloride - Ion Chromatography | EPA 300.0 | 330 | mg/L | 250 mg/L | Henderson | | | 2/23/2006 |
| Chromium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | | | 3/1/2006 |
| Color Apparent | EPA 110.2 | 20 | Color Units | 15 | Pacheco | | | 2/22/2006 |
| Copper - ICP-MS | EPA 200.8 | <0.001 | mg/L | 1.0 mg/L | Li | | | 3/1/2006 |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.3 | mg/L | 2.0/4.0 mg/L | Henderson | | | 2/23/2006 |
| Iron - ICP-OES | EPA 200.7 | 2.1 | mg/L | 0.3 mg/L | Keller | | | 2/24/2006 |
| Lead - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.015 mg/L | Li | | | 3/1/2006 |
| Lithium - ICP-OES | EPA 200.7 | 1.4 | mg/L | | Keller | | | 2/27/2006 |
| Magnesium - ICP-OES | EPA 200.7 | 12 | mg/L | 125 mg/L | Keller | | | 2/24/2006 |
| Manganese - ICP-MS | EPA 200.8 | 0.023 | mg/L | 0.05 mg/L | Li | | | 3/1/2006 |
| MBAS Surfactants | SM 5540 C | 0.05 | mg/L | 0.5 mg/L | Pacheco | | | 2/22/2006 |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | | | 2/27/2006 |
| Nickel - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | Li | | | 3/1/2006 |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | | | 2/23/2006 |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | | | 2/23/2006 |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | | | 2/23/2006 |
| pH | SM 4500 H+B | 7.65 | pH Units | 6.5 to 8.5 | Pacheco | | | 2/23/2006 |
| pH - Temperature | SM 4500 H+B | 17.5 | °C | | Pacheco | | | 2/23/2006 |
| Potassium - ICP-OES | EPA 200.7 | 33 | mg/L | | Keller | | | 2/24/2006 |
| Selenium - ICP-MS | EPA 200.8 | <0.005 | mg/L | 0.05 mg/L | Li | | | 3/1/2006 |
| Silica - ICP-OES | EPA 200.7 | 160 | mg/L | | Keller | | | 2/27/2006 |
| Sodium - ICP-OES | EPA 200.7 | 260 | mg/L | | Keller | | | 2/24/2006 |
| Sulfate - Ion Chromatography | EPA 300.0 | 100 | mg/L | 500 mg/L | Henderson | | | 2/23/2006 |



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received |
|------------------------|--------------------|----------------------------|--------------|---------------|---------------|
| | S200602-1455 | Steamboat Pkwy - 810'-830' | | | |
| Parameter | Method | Result | Units | MCL | Analyst |
| Thallium - ICP-MS | EPA 200.8 | <0.0005 | mg/L | 0.002 mg/L | Li |
| Total Dissolved Solids | SM 2540 C | 1200 | mg/L | 500/1000 mg/L | Pacheco |
| Turbidity | SM 2130 B | 5.7 | NTU | | Pacheco |
| Zinc - ICP-MS | EPA 200.8 | 0.18 | mg/L | 5 mg/L | Li |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS.

John Kobza, Ph.D.
Laboratory Director

Page 9 of 20

1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | Date Analyzed | Data Flag |
|-----------------------------------|----------------------------|---------|------------------------|--------------|---------------|---------------|-----------|
| | Steamboat Pkwy - 900'-920' | | | | | | |
| Alkalinity, Total | SM 2320 B | 220 | mg/L CaCO ₃ | | | Pacheco | 2/23/2006 |
| Alkalinity/Bicarbonate | SM 2320 B | 220 | mg/L CaCO ₃ | | | Pacheco | 2/23/2006 |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | | Pacheco | 2/23/2006 |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | | Pacheco | 2/23/2006 |
| Antimony - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.006 mg/L | | Li | 3/1/2006 |
| Arsenic - ICP-MS | EPA 200.8 | 0.23 | mg/L | 0.01 mg/L | | Li | 3/1/2006 |
| Barium - ICP-MS | EPA 200.8 | 0.074 | mg/L | 2.0 mg/L | | Li | 3/1/2006 |
| Beryllium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.004 mg/L | | Li | 3/1/2006 |
| Boron - ICP-OES | EPA 200.7 | 13 | mg/L | | | Keller | 2/24/2006 |
| Cadmium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.005 mg/L | | Li | 3/1/2006 |
| Calcium - ICP-OES | EPA 200.7 | 34 | mg/L | | | Keller | 2/24/2006 |
| Chloride - Ion Chromatography | EPA 300.0 | 300 | mg/L | 250 mg/L | | Henderson | 2/24/2006 |
| Chromium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | | Li | 3/1/2006 |
| Color Apparent | EPA 110.2 | 15 | Color Units | 15 | | Pacheco | 2/22/2006 |
| Copper - ICP-MS | EPA 200.8 | 0.003 | mg/L | 1.0 mg/L | | Li | 3/1/2006 |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.4 | mg/L | 2.0/4.0 mg/L | | Henderson | 2/23/2006 |
| Iron - ICP-OES | EPA 200.7 | 1.7 | mg/L | 0.3 mg/L | | Keller | 2/24/2006 |
| Lead - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.015 mg/L | | Li | 3/1/2006 |
| Lithium - ICP-OES | EPA 200.7 | 1.4 | mg/L | | | Keller | 2/27/2006 |
| Magnesium - ICP-OES | EPA 200.7 | 9.2 | mg/L | 125 mg/L | | Keller | 2/24/2006 |
| Manganese - ICP-MS | EPA 200.8 | 0.032 | mg/L | 0.05 mg/L | | Li | 3/1/2006 |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.5 mg/L | | Pacheco | 2/22/2006 |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | | Kleinworth | 2/27/2006 |
| Nickel - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.1 mg/L | | Li | 3/1/2006 |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | | Henderson | 2/23/2006 |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | | Henderson | 2/23/2006 |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | | Henderson | 2/23/2006 |
| pH | SM 4500 H+B | 7.59 | pH Units | 6.5 to 8.5 | | Pacheco | 2/23/2006 |
| pH - Temperature | SM 4500 H+B | 18.4 | °C | | | Pacheco | 2/23/2006 |
| Potassium - ICP-OES | EPA 200.7 | 29 | mg/L | | | Keller | 2/24/2006 |
| Selenium - ICP-MS | EPA 200.8 | <0.005 | mg/L | 0.05 mg/L | | Li | 3/1/2006 |
| Silica - ICP-OES | EPA 200.7 | 170 | mg/L | | | Keller | 2/27/2006 |
| Sodium - ICP-OES | EPA 200.7 | 270 | mg/L | | | Keller | 2/24/2006 |
| Sulfate - Ion Chromatography | EPA 300.0 | 140 | mg/L | 500 mg/L | | Henderson | 2/24/2006 |



Laboratory Report

Report ID: 74174

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 3/3/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|------------------------|----------------------------|---------|--------------|---------------|---------------|---------------|-----------|
| | Steamboat Pkwy - 900'-920' | | 2/22/2006 | 9:30 AM | 2/22/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.0005 | mg/L | 0.002 mg/L | Li | 3/1/2006 | |
| Total Dissolved Solids | SM 2540 C | 1200 | mg/L | 500/1000 mg/L | Pacheco | 2/24/2006 | |
| Turbidity | SM 2130 B | 2.3 | NTU | | Pacheco | 2/22/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.23 | mg/L | 5 mg/L | Li | 3/1/2006 | |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS.

Data Flag Legend:

C - Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.

JL - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | Date Analyzed | Data Flag |
|-----------------------------------|--------------------|---------|------------------------|---------------|---------------|---------------|-----------|
| | TH 3 100-110 | | 5/8/2006 | 2:10 PM | 5/9/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | | |
| Alkalinity, Total | SM 2320 B | 140 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 140 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.032 | mg/L | 0.006 mg/L | Li | 5/19/2006 | JL |
| Arsenic - ICP-MS | EPA 200.8 | 0.20 | mg/L | 0.01 mg/L | Li | 5/19/2006 | |
| Barium - ICP-MS | EPA 200.8 | 19 | mg/L | 2.0 mg/L | Li | 5/22/2006 | C |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.004 mg/L | Li | 5/19/2006 | |
| Boron - ICP-OES | EPA 200.7 | 1.6 | mg/L | | Keller | 5/16/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.005 mg/L | Li | 5/19/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 7.6 | mg/L | | Keller | 5/16/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 33 | mg/L | 250 mg/L | Henderson | 5/9/2006 | |
| Chromium - ICP-MS | EPA 200.8 | 0.004 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Color Apparent | EPA 110.2 | 45 | Color Units | 15 | Heilmann | 5/11/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.037 | mg/L | 1.0 mg/L | Li | 5/19/2006 | B |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.7 | mg/L | 2.0/4.0 mg/L | Henderson | 5/9/2006 | |
| Iron - ICP-OES | EPA 200.7 | 9.0 | mg/L | 0.3 mg/L | Keller | 5/16/2006 | |
| Lead - ICP-MS | EPA 200.8 | 0.004 | mg/L | 0.015 mg/L | Li | 5/19/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 4.5 | mg/L | 125 mg/L | Keller | 5/16/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.29 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| MBAS Surfactants | SM 5540 C | <0.4 | mg/L | 0.5 mg/L | Pacheco | 5/9/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 5/17/2006 | |
| Nickel - ICP-MS | EPA 200.8 | 0.006 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 1.4 | mg/L N | 10 mg/L as N | Henderson | 5/9/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 5/9/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | 1.4 | mg/L N | | Henderson | 5/9/2006 | |
| pH | SM 4500 H+B | 8.00 | pH Units | 6.5 to 8.5 | Pacheco | 5/10/2006 | |
| pH - Temperature | SM 4500 H+B | 18.2 | °C | | Pacheco | 5/10/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 7.8 | mg/L | | Keller | 5/16/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 80 | mg/L | | Keller | 5/16/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 20 | mg/L | 500 mg/L | Henderson | 5/9/2006 | |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.002 mg/L | Li | 5/19/2006 | |
| Total Dissolved Solids | SM 2540 C | 420 | mg/L | 500/1000 mg/L | Pacheco | 5/15/2006 | |



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: S200605-0688 | Customer Sample ID | | Date Sampled 5/8/2006 | Time Sampled 2:10 PM | Date Received 5/9/2006 | | |
|-------------------------------------|--------------------|-----------|--------------------------|-------------------------|---------------------------|---------------|-----------|
| | TH 3 | 100-110 | | | | Date Analyzed | Data Flag |
| Parameter | Method | Result | Units | MCL | Analyst | | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 5/15/2006 | |
| Turbidity | SM 2130 B | 290 | NTU | | Hellmann | 5/11/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.14 | mg/L | 5 mg/L | Li | 5/19/2006 | B |

SAMPLE WATER AS TESTED DID X DID NOT MEET DRINKING WATER STANDARDS.

John Kobza, Ph.D.
Laboratory Director

Page 3 of 17

1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

Sample ID:
S200605-0689

Customer Sample ID
TH 3 170-180

Date Sampled 5/8/2006 Time Sampled 3:30 PM Date Received 5/9/2006

| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
|-----------------------------------|-------------|---------|------------------------|---------------|------------|---------------|-----------|
| Alkalinity, Total | SM 2320 B | 150 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 150 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.026 | mg/L | 0.006 mg/L | Li | 5/19/2006 | JL |
| Arsenic - ICP-MS | EPA 200.8 | 0.17 | mg/L | 0.01 mg/L | Li | 5/19/2006 | |
| Barium - ICP-MS | EPA 200.8 | 19 | mg/L | 2.0 mg/L | Li | 5/22/2006 | C |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.004 mg/L | Li | 5/19/2006 | |
| Boron - ICP-OES | EPA 200.7 | 2.0 | mg/L | | Keller | 5/16/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.005 mg/L | Li | 5/19/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 9.2 | mg/L | | Keller | 5/16/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 42 | mg/L | 250 mg/L | Henderson | 5/9/2006 | |
| Chromium - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Color Apparent | EPA 110.2 | 50 | Color Units | 15 | Hellmann | 5/11/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.029 | mg/L | 1.0 mg/L | Li | 5/19/2006 | B |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.8 | mg/L | 2.0/4.0 mg/L | Henderson | 5/9/2006 | |
| Iron - ICP-OES | EPA 200.7 | 6.2 | mg/L | 0.3 mg/L | Keller | 5/16/2006 | |
| Lead - ICP-MS | EPA 200.8 | 0.004 | mg/L | 0.015 mg/L | Li | 5/19/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 4.3 | mg/L | 125 mg/L | Keller | 5/16/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.33 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| MBAS Surfactants | SM 5540 C | <0.4 | mg/L | 0.5 mg/L | Pacheco | 5/9/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 5/17/2006 | |
| Nickel - ICP-MS | EPA 200.8 | 0.006 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 1.3 | mg/L N | 10 mg/L as N | Henderson | 5/9/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 5/9/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | 1.3 | mg/L N | | Henderson | 5/9/2006 | |
| pH | SM 4500 H+B | 7.95 | pH Units | 6.5 to 8.5 | Pacheco | 5/10/2006 | |
| pH - Temperature | SM 4500 H+B | 19.2 | °C | | Pacheco | 5/10/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 9.3 | mg/L | | Keller | 5/16/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 91 | mg/L | | Keller | 5/16/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 26 | mg/L | 500 mg/L | Henderson | 5/9/2006 | |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.002 mg/L | Li | 5/19/2006 | |
| Total Dissolved Solids | SM 2540 C | 470 | mg/L | 500/1000 mg/L | Pacheco | 5/15/2006 | |



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-------------------------------------|--------------------|-----------|--------------|--------------|---------------|---------------|-----------|
| | TH 3 170-180 | | 5/8/2006 | 3:30 PM | 5/9/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 5/15/2006 | |
| Turbidity | SM 2130 B | .320 | NTU | | Hellmann | 5/11/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.36 | mg/L | 5 mg/L | Li | 5/19/2006 | B |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received |
|--------------|--------------------|--------------|--------------|---------------|
| S200605-0690 | TH 3 320-330 | 5/8/2006 | 4:45 PM | 5/9/2006 |

| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
|-----------------------------------|-------------|---------|------------------------|---------------|------------|---------------|-----------|
| Alkalinity, Total | SM 2320 B | 210 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 210 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.029 | mg/L | 0.006 mg/L | Li | 5/19/2006 | JL |
| Arsenic - ICP-MS | EPA 200.8 | 0.50 | mg/L | 0.01 mg/L | Li | 5/19/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.67 | mg/L | 2.0 mg/L | Li | 5/19/2006 | C |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.004 mg/L | Li | 5/19/2006 | |
| Boron - ICP-OES | EPA 200.7 | 11 | mg/L | | Keller | 5/16/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.005 mg/L | Li | 5/19/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 8.3 | mg/L | | Keller | 5/16/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 180 | mg/L | 250 mg/L | Henderson | 5/12/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Color Apparent | EPA 110.2 | 25 | Color Units | 15 | Hellmann | 5/11/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.018 | mg/L | 1.0 mg/L | Li | 5/19/2006 | B |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.8 | mg/L | 2.0/4.0 mg/L | Henderson | 5/9/2006 | |
| Iron - ICP-OES | EPA 200.7 | 2.8 | mg/L | 0.3 mg/L | Keller | 5/16/2006 | |
| Lead - ICP-MS | EPA 200.8 | 0.002 | mg/L | 0.015 mg/L | Li | 5/19/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 4.0 | mg/L | 125 mg/L | Keller | 5/16/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.25 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| MBAS Surfactants | SM 5540 C | <0.4 | mg/L | 0.5 mg/L | Pacheco | 5/9/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 5/17/2006 | |
| Nickel - ICP-MS | EPA 200.8 | 0.004 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 0.39 | mg/L N | 10 mg/L as N | Henderson | 5/9/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 5/9/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.44 | mg/L N | | Henderson | 5/9/2006 | |
| pH | SM 4500 H+B | 7.85 | pH Units | 6.5 to 8.5 | Pacheco | 5/10/2006 | |
| pH - Temperature | SM 4500 H+B | 19.7 | °C | | Pacheco | 5/10/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 15 | mg/L | | Keller | 5/16/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 190 | mg/L | | Keller | 5/16/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 40 | mg/L | 500 mg/L | Henderson | 5/9/2006 | |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.002 mg/L | Li | 5/19/2006 | |
| Total Dissolved Solids | SM 2540 C | 830 | mg/L | 500/1000 mg/L | Pacheco | 5/15/2006 | |



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | |
|-------------------------------------|--------------------|-----------|--------------|--------------|---------------|-----------|
| | TH 3 320-330 | | | | MCL | Analyst |
| Parameter | Method | Result | Units | | | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 5/15/2006 |
| Turbidity | SM 2130 B | 160 | NTU | | Hellmann | 5/11/2006 |
| Zinc - ICP-MS | EPA 200.8 | 0.18 | mg/L | 5 mg/L | Li | 5/19/2006 |
| B | | | | | | |

SAMPLE WATER AS TESTED DID DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: S200605-0691 | Customer Sample ID | | Date Sampled 5/8/2006 | Time Sampled 5:40 PM | Date Received 5/9/2006 | Date Analyzed | Data Flag |
|-----------------------------------|--------------------|---------|--------------------------|-------------------------|---------------------------|---------------|-----------|
| | TH 3 | 430-440 | | | | | |
| Parameter | Method | Result | Units | MCL | Analyst | | |
| Alkalinity, Total | SM 2320 B | 200 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 200 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.006 mg/L | Li | 5/19/2006 | JL |
| Arsenic - ICP-MS | EPA 200.8 | 0.54 | mg/L | 0.01 mg/L | Li | 5/19/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.29 | mg/L | 2.0 mg/L | Li | 5/19/2006 | C |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.004 mg/L | Li | 5/19/2006 | |
| Boron - ICP-OES | EPA 200.7 | 21 | mg/L | | Keller | 5/16/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.005 mg/L | Li | 5/19/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 21 | mg/L | | Keller | 5/16/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 420 | mg/L | 250 mg/L | Henderson | 5/12/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Color Apparent | EPA 110.2 | 5 | Color Units | 15 | Hellmann | 5/11/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.008 | mg/L | 1.0 mg/L | Li | 5/19/2006 | B |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.4 | mg/L | 2.0/4.0 mg/L | Henderson | 5/9/2006 | |
| Iron - ICP-OES | EPA 200.7 | 1.3 | mg/L | 0.3 mg/L | Keller | 5/16/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.015 mg/L | Li | 5/19/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 12 | mg/L | 125 mg/L | Keller | 5/16/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.50 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| MBAS Surfactants | SM 5540 C | <0.4 | mg/L | 0.5 mg/L | Pacheco | 5/9/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 5/17/2006 | |
| Nickel - ICP-MS | EPA 200.8 | 0.004 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 5/9/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 5/9/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 5/9/2006 | |
| pH | SM 4500 H+B | 7.65 | pH Units | 6.5 to 8.5 | Pacheco | 5/10/2006 | |
| pH - Temperature | SM 4500 H+B | 20.2 | °C | | Pacheco | 5/10/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 35 | mg/L | | Keller | 5/16/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 320 | mg/L | | Keller | 5/16/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 77 | mg/L | 500 mg/L | Henderson | 5/12/2006 | |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.002 mg/L | Li | 5/19/2006 | |
| Total Dissolved Solids | SM 2540 C | 1200 | mg/L | 500/1000 mg/L | Pacheco | 5/15/2006 | |



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-------------------------------------|--------------------|-----------|--------------|--------------|---------------|---------------|-----------|
| S200605-0691 | TH 3 | 430-440 | 5/8/2006 | 5:40 PM | 5/9/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 5/15/2006 | |
| Turbidity | SM 2130 B | 39 | NTU | | Hellmann | 5/11/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.38 | mg/L | 5 mg/L | Li | 5/19/2006 | B |

SAMPLE WATER AS TESTED DID X DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-----------------------------------|--------------------|---------|------------------------|---------------|---------------|---------------|-----------|
| | TH 3 530-540 | | 5/9/2006 | 8:40 AM | 5/9/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 230 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 230 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.006 mg/L | Li | 5/19/2006 | JL |
| Arsenic - ICP-MS | EPA 200.8 | 0.42 | mg/L | 0.01 mg/L | Li | 5/19/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.43 | mg/L | 2.0 mg/L | Li | 5/19/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.004 mg/L | Li | 5/19/2006 | |
| Boron - ICP-OES | EPA 200.7 | 19 | mg/L | | Keller | 5/16/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.005 mg/L | Li | 5/19/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 25 | mg/L | | Keller | 5/16/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 400 | mg/L | 250 mg/L | Henderson | 5/12/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 15 | Hellmann | 5/11/2006 | |
| Copper - ICP-MS | EPA 200.8 | <0.004 | mg/L | 1.0 mg/L | Li | 5/19/2006 | B |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.4 | mg/L | 2.0/4.0 mg/L | Henderson | 5/9/2006 | |
| Iron - ICP-OES | EPA 200.7 | 1.5 | mg/L | 0.3 mg/L | Keller | 5/16/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.015 mg/L | Li | 5/19/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 11 | mg/L | 125 mg/L | Keller | 5/16/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.25 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| MBAS Surfactants | SM 5540 C | <0.4 | mg/L | 0.5 mg/L | Pacheco | 5/9/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 5/17/2006 | |
| Nickel - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 5/9/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 5/9/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 5/9/2006 | |
| pH | SM 4500 H+B | 7.70 | pH Units | 6.5 to 8.5 | Pacheco | 5/10/2006 | |
| pH - Temperature | SM 4500 H+B | 19.3 | °C | | Pacheco | 5/10/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 28 | mg/L | | Keller | 5/16/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 310 | mg/L | | Keller | 5/16/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 67 | mg/L | 500 mg/L | Henderson | 5/12/2006 | |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.002 mg/L | Li | 5/19/2006 | |
| Total Dissolved Solids | SM 2540 C | 1200 | mg/L | 500/1000 mg/L | Pacheco | 5/15/2006 | |



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-------------------------------------|--------------------|-----------|--------------|--------------|---------------|---------------|-----------|
| | TH 3 | 530-540 | | | 5/9/2006 | 8:40 AM | 5/9/2006 |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 5/15/2006 | |
| Turbidity | SM 2130 B | 55 | NTU | | Hellmann | 5/11/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.28 | mg/L | 5 mg/L | Li | 5/19/2006 | B |

SAMPLE WATER AS TESTED DID X DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: S200605-0693 | Customer Sample ID | | Date Sampled 5/9/2006 | Time Sampled 9:30 AM | Date Received 5/9/2006 | | |
|-----------------------------------|--------------------|---------|--------------------------|-------------------------|---------------------------|---------------|-----------|
| | TH 3 | 660-670 | | | | Date Analyzed | Data Flag |
| Parameter | Method | Result | Units | MCL | Analyst | | |
| Alkalinity, Total | SM 2320 B | 180 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 180 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.006 mg/L | Li | 5/19/2006 | J1 |
| Arsenic - ICP-MS | EPA 200.8 | 0.18 | mg/L | 0.01 mg/L | Li | 5/19/2006 | |
| Barium - ICP-MS | EPA 200.8 | 2.8 | mg/L | 2.0 mg/L | Li | 5/22/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.004 mg/L | Li | 5/19/2006 | |
| Boron - ICP-OES | EPA 200.7 | 6.0 | mg/L | | Keller | 5/16/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.005 mg/L | Li | 5/19/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 18 | mg/L | | Keller | 5/16/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 81 | mg/L | 250 mg/L | Henderson | 5/12/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 15 | Hellmann | 5/11/2006 | |
| Copper - ICP-MS | EPA 200.8 | <0.004 | mg/L | 1.0 mg/L | Li | 5/19/2006 | B |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.5 | mg/L | 2.0/4.0 mg/L | Henderson | 5/9/2006 | |
| Iron - ICP-OES | EPA 200.7 | 0.6 | mg/L | 0.3 mg/L | Keller | 5/16/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.015 mg/L | Li | 5/19/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 3.3 | mg/L | 125 mg/L | Keller | 5/16/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.13 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| MBAS Surfactants | SM 5540 C | <0.4 | mg/L | 0.5 mg/L | Pacheco | 5/9/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 5/17/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 5/9/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 5/9/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 5/9/2006 | |
| pH | SM 4500 H+B | 7.95 | pH Units | 6.5 to 8.5 | Pacheco | 5/10/2006 | |
| pH - Temperature | SM 4500 H+B | 19.6 | °C | | Pacheco | 5/10/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 23 | mg/L | | Keller | 5/16/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 94 | mg/L | | Keller | 5/16/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 13 | mg/L | 500 mg/L | Henderson | 5/9/2006 | |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.002 mg/L | Li | 5/19/2006 | |
| Total Dissolved Solids | SM 2540 C | 490 | mg/L | 500/1000 mg/L | Pacheco | 5/15/2006 | |



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | Date Analyzed | Data Flag |
|-------------------------------------|--------------------|-----------|--------------|--------------|---------------|---------------|-----------|
| S200605-0693 | TH 3 660-670 | | 5/9/2006 | 9:30 AM | 5/9/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 5/15/2006 | |
| Turbidity | SM 2130 B | 2.5 | NTU | | Hellmann | 5/11/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.07 | mg/L | 5 mg/L | Li | 5/19/2006 | B |

SAMPLE WATER AS TESTED DID X DID NOT MEET DRINKING WATER STANDARDS.



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-----------------------------------|--------------------|---------|------------------------|---------------|---------------|---------------|-----------|
| | TH 3 760-770 | | 5/9/2006 | 10:30 AM | 5/9/2006 | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 170 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 170 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | | Pacheco | 5/10/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.006 mg/L | Li | 5/19/2006 | JI |
| Arsenic - ICP-MS | EPA 200.8 | 0.19 | mg/L | 0.01 mg/L | Li | 5/19/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.87 | mg/L | 2.0 mg/L | Li | 5/19/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.004 mg/L | Li | 5/19/2006 | |
| Boron - ICP-OES | EPA 200.7 | 5.2 | mg/L | | Keller | 5/16/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.005 mg/L | Li | 5/19/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 18 | mg/L | | Keller | 5/16/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 55 | mg/L | 250 mg/L | Henderson | 5/9/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 15 | Hellmann | 5/11/2006 | |
| Copper - ICP-MS | EPA 200.8 | <0.004 | mg/L | 1.0 mg/L | Li | 5/19/2006 | B |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.4 | mg/L | 2.0/4.0 mg/L | Henderson | 5/9/2006 | |
| Iron - ICP-OES | EPA 200.7 | 0.61 | mg/L | 0.3 mg/L | Keller | 5/16/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.015 mg/L | Li | 5/19/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 1.9 | mg/L | 125 mg/L | Keller | 5/16/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.092 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| MBAS Surfactants | SM 5540 C | <0.4 | mg/L | 0.5 mg/L | Pacheco | 5/9/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.002 mg/L | Kleinworth | 5/17/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.1 mg/L | Li | 5/19/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 10 mg/L as N | Henderson | 5/9/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 1 mg/L as N | Henderson | 5/9/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | | Henderson | 5/9/2006 | |
| pH | SM 4500 H+B | 8.02 | pH Units | 6.5 to 8.5 | Pacheco | 5/10/2006 | |
| pH - Temperature | SM 4500 H+B | 20.7 | °C | | Pacheco | 5/10/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 24 | mg/L | | Keller | 5/16/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.05 mg/L | Li | 5/19/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 73 | mg/L | | Keller | 5/16/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 6.1 | mg/L | 500 mg/L | Henderson | 5/9/2006 | |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.002 mg/L | Li | 5/19/2006 | |
| Total Dissolved Solids | SM 2540 C | 420 | mg/L | 500/1000 mg/L | Pacheco | 5/15/2006 | |



Laboratory Report

Report ID: 75757

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 5/23/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500001829

Analysis Report

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | | | |
|-------------------------------------|--------------------|--------------|--------------|---------------|------------|---------------|-----------|
| S200605-0694 | TH 3 760-770 | 5/9/2006 | 10:30 AM | 5/9/2006 | | | |
| Parameter | Method | Result | Units | MCL | Analyst | Date Analyzed | Data Flag |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 5/15/2006 | |
| Turbidity | SM 2130 B | 3.2 | NTU | | Hellmann | 5/11/2006 | |
| Zinc - ICP-MS | EPA 200.8 | <0.03 | mg/L | 5 mg/L | Li | 5/19/2006 | B |

SAMPLE WATER AS TESTED DID X DID NOT MEET DRINKING WATER STANDARDS.

Data Flag Legend:

B - Element or compound also found in associated Method Blank.

C - Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.

J - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.



Laboratory Report

Report ID: 80237

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/22/2006
Client: WAS-500
Taken by: Widner/VanHoo
PO #: 5500005452

Analysis Report

Sample ID:
S200612-0231

Customer Sample ID

TH3-150
TH4

Date Sampled 12/5/2006 Time Sampled 3:30 PM Date Received 12/5/2006

| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
|-----------------------------------|-------------|---------|------------------------|-----------------|------------|---------------|-----------|
| Alkalinity, Total | SM 2320 B | 230 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 230 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.011 | mg/L | 0.002 | Li | 12/18/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.30 | mg/L | 0.002 | Li | 12/18/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.54 | mg/L | 0.002 | Li | 12/18/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Boron - ICP-OES | EPA 200.7 | 9.9 | mg/L | 0.1 | Keller | 12/18/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 14 | mg/L | 1 | Keller | 12/18/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 180 | mg/L | 5 | Henderson | 12/8/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 5 | Pacheco | 12/6/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.004 | mg/L | 0.002 | Li | 12/18/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.9 | mg/L | 0.1 | Henderson | 12/6/2006 | |
| Iron - ICP-OES | EPA 200.7 | 1.6 | mg/L | 0.1 | Keller | 12/18/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Lithium - ICP-OES | EPA 200.7 | 1.6 | mg/L | 0.2 | Keller | 12/18/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 7.7 | mg/L | 1 | Keller | 12/18/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.12 | mg/L | 0.002 | Li | 12/18/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Pacheco | 12/7/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 12/15/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 0.13 | mg/L N | 0.05 | Henderson | 12/6/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 12/6/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.18 | mg/L N | 0.18 | Henderson | 12/6/2006 | |
| pH | SM 4500 H+B | 8.12 | pH Units | | Pacheco | 12/7/2006 | |
| pH - Temperature | SM 4500 H+B | 19.7 | °C | | Pacheco | 12/7/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 13 | mg/L | 1 | Keller | 12/18/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 12/18/2006 | |
| Silica - ICP-OES | EPA 200.7 | 99 | mg/L | 0.4 | Keller | 12/12/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 180 | mg/L | 1 | Keller | 12/18/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 29 | mg/L | 0.2 | Henderson | 12/6/2006 | |



Laboratory Report

Report ID: 80237

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/22/2006
Client: WAS-500
Taken by: Widner/VanHoo
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-------------------------------------|--------------------|-----------|--------------|-----------------|---------------|---------------|-----------|
| S200612-0231 | TH3-150 | | 12/5/2006 | 3:30 PM | 12/5/2006 | | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 12/18/2006 | |
| Total Dissolved Solids | SM 2540 C | 720 | mg/L | 10 | Pacheco | 12/11/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 12/13/2006 | |
| Turbidity | SM 2130 B | 6.2 | NTU | 0.1 | Pacheco | 12/6/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.28 | mg/L | 0.01 | Li | 12/18/2006 | |

Data Flag Legend:

C - Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.



Laboratory Report
Report ID: 80237

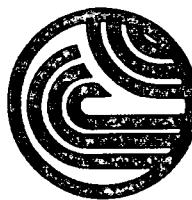
**Sierra
Environmental
Monitoring, Inc.**

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/22/2006
Client: WAS-500
Taken by: Widner/VanHoo
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-----------------------------------|--------------------|---------|------------------------|-----------------|---------------|---------------|-----------|
| | TH3-230 | TH4 | | | 12/5/2006 | 2:30 PM | 12/5/2006 |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 240 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 240 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.008 | mg/L | 0.002 | Li | 12/18/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.27 | mg/L | 0.002 | Li | 12/18/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.64 | mg/L | 0.002 | Li | 12/18/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Boron - ICP-OES | EPA 200.7 | 9.6 | mg/L | 0.05 | Keller | 12/18/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 14 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 170 | mg/L | 5 | Henderson | 12/16/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 5 | Pacheco | 12/6/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.005 | mg/L | 0.002 | Li | 12/18/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.9 | mg/L | 0.1 | Henderson | 12/6/2006 | |
| Iron - ICP-OES | EPA 200.7 | 2.2 | mg/L | 0.05 | Keller | 12/18/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Lithium - ICP-OES | EPA 200.7 | 1.5 | mg/L | 0.1 | Keller | 12/18/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 8.0 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.17 | mg/L | 0.002 | Li | 12/18/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Pacheco | 12/7/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 12/15/2006 | |
| Nickel - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.002 | Li | 12/18/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 12/6/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 12/6/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | 0.1 | Henderson | 12/6/2006 | |
| pH | SM 4500 H+B | 8.14 | pH Units | | Pacheco | 12/7/2006 | |
| pH - Temperature | SM 4500 H+B | 20.5 | °C | | Pacheco | 12/7/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 13 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 12/18/2006 | |
| Silica - ICP-OES | EPA 200.7 | 100 | mg/L | 0.4 | Keller | 12/12/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 170 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 30 | mg/L | 0.2 | Henderson | 12/6/2006 | C |



Laboratory Report

Report ID: 80237

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/22/2006
Client: WAS-500
Taken by: Widner/VanHoo
PO #: 5500005452

Analysis Report

| Sample ID: S200612-0230 | Customer Sample ID | | Date Sampled 12/5/2006 | Time Sampled 2:30 PM | Date Received 12/5/2006 | |
|-------------------------------------|--------------------|-----------|---------------------------|-------------------------|----------------------------|------------|
| | TH3-230 | TH4 | | | Reporting Limit | Analyst |
| Parameter | Method | Result | Units | | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 12/18/2006 |
| Total Dissolved Solids | SM 2540 C | 660 | mg/L | 10 | Pacheco | 12/11/2006 |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 12/13/2006 |
| Turbidity | SM 2130 B | 13 | NTU | 0.1 | Pacheco | 12/6/2006 |
| Zinc - ICP-MS | EPA 200.8 | 0.36 | mg/L | 0.01 | Li | 12/18/2006 |



Laboratory Report
Report ID: 80237

**Sierra
Environmental
Monitoring, Inc.**

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/22/2006
Client: WAS-500
Taken by: Widner/VanHoo
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | Data Flag |
|-----------------------------------|--------------------|---------|------------------------|-----------------|---------------|---------------|-----------|
| | TH3-330 | TH4 | | | 12/5/2006 | 1:00 PM | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 190 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 190 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.020 | mg/L | 0.002 | Li | 12/18/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.20 | mg/L | 0.002 | Li | 12/18/2006 | |
| Barium - ICP-MS | EPA 200.8 | 20 | mg/L | 0.1 | Li | 12/19/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Boron - ICP-OES | EPA 200.7 | 5.1 | mg/L | 0.05 | Keller | 12/18/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 12 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 59 | mg/L | 0.5 | Henderson | 12/6/2006 | |
| Chromium - ICP-MS | EPA 200.8 | 0.005 | mg/L | 0.002 | Li | 12/18/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 5 | Pacheco | 12/6/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.028 | mg/L | 0.002 | Li | 12/18/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.9 | mg/L | 0.1 | Henderson | 12/6/2006 | |
| Iron - ICP-OES | EPA 200.7 | 9.1 | mg/L | 0.05 | Keller | 12/18/2006 | |
| Lead - ICP-MS | EPA 200.8 | 0.006 | mg/L | 0.002 | Li | 12/18/2006 | |
| Lithium - ICP-OES | EPA 200.7 | 1.0 | mg/L | 0.1 | Keller | 12/18/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 8.0 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.35 | mg/L | 0.002 | Li | 12/18/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Pacheco | 12/7/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 12/15/2006 | |
| Nickel - ICP-MS | EPA 200.8 | 0.006 | mg/L | 0.002 | Li | 12/18/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 1.5 | mg/L N | 0.05 | Henderson | 12/6/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | 0.36 | mg/L N | 0.05 | Henderson | 12/6/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | 1.9 | mg/L N | 0.1 | Henderson | 12/6/2006 | |
| pH | SM 4500 H+B | 8.19 | pH Units | | Pacheco | 12/7/2006 | |
| pH - Temperature | SM 4500 H+B | 20.3 | °C | | Pacheco | 12/7/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 10 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 12/18/2006 | |
| Silica - ICP-OES | EPA 200.7 | 150 | mg/L | 0.4 | Keller | 12/12/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 110 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 16 | mg/L | 0.2 | Henderson | 12/6/2006 | |



Laboratory Report

Report ID: 80237

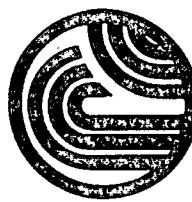
Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/22/2006
Client: WAS-500
Taken by: Widner/VanHoo
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-------------------------------------|--------------------|-----------|--------------|-----------------|---------------|---------------|-----------|
| | TH3-330 | TH4 | | | 12/5/2006 | 1:00 PM | 12/5/2006 |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 12/18/2006 | |
| Total Dissolved Solids | SM 2540 C | 510 | mg/L | 10 | Pacheco | 12/11/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 12/13/2006 | |
| Turbidity | SM 2130 B | 90 | NTU | 0.1 | Pacheco | 12/6/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.072 | mg/L | 0.01 | Li | 12/18/2006 | |



Laboratory Report

Report ID: 80237

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/22/2006
Client: WAS-500
Taken by: Widner/VanHoo
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-----------------------------------|--------------------|---------|------------------------|-----------------|---------------|---------------|-----------|
| | TH3-460 | TH4 | | | 12/5/2006 | 10:10 AM | 12/5/2006 |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 140 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 140 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.11 | mg/L | 0.002 | Li | 12/18/2006 | |
| Barium - ICP-MS | EPA 200.8 | 1.0 | mg/L | 0.002 | Li | 12/18/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Boron - ICP-OES | EPA 200.7 | 1.9 | mg/L | 0.05 | Keller | 12/18/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 4.8 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 41 | mg/L | 0.5 | Henderson | 12/6/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 5 | Pacheco | 12/6/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.5 | mg/L | 0.1 | Henderson | 12/6/2006 | |
| Iron - ICP-OES | EPA 200.7 | 0.63 | mg/L | 0.05 | Keller | 12/18/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Lithium - ICP-OES | EPA 200.7 | 0.48 | mg/L | 0.1 | Keller | 12/18/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 2.7 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.029 | mg/L | 0.002 | Li | 12/18/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Pacheco | 12/7/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 12/15/2006 | |
| Nickel - ICP-MS | EPA 200.8 | 0.017 | mg/L | 0.002 | Li | 12/18/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 1.0 | mg/L N | 0.05 | Henderson | 12/6/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 12/6/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | 1.0 | mg/L N | 0.1 | Henderson | 12/6/2006 | |
| pH | SM 4500 H+B | 8.16 | pH Units | | Pacheco | 12/7/2006 | |
| pH - Temperature | SM 4500 H+B | 19.8 | °C | | Pacheco | 12/7/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 6.9 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 12/18/2006 | |
| Silica - ICP-OES | EPA 200.7 | 95 | mg/L | 0.4 | Keller | 12/12/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 71 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 9.2 | mg/L | 0.2 | Henderson | 12/6/2006 | C |



Laboratory Report

Report ID: 80237

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/22/2006
Client: WAS-500
Taken by: Widner/VanHoo
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-------------------------------------|--------------------|-----------|--------------|-----------------|---------------|---------------|-----------|
| | TH3-460 | T#4 | | | 12/5/2006 | 10:10 AM | 12/5/2006 |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 12/18/2006 | |
| Total Dissolved Solids | SM 2540 C | 320 | mg/L | 10 | Pacheco | 12/8/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 12/13/2006 | |
| Turbidity | SM 2130 B | 2.1 | NTU | 0.1 | Pacheco | 12/6/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.028 | mg/L | 0.01 | Li | 12/18/2006 | |



Laboratory Report

Report ID: 80237

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/22/2006
Client: WAS-500
Taken by: Widner/VanHoo
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-----------------------------------|--------------------|---------|------------------------|-----------------|--------------|---------------|-----------|
| | Method | Result | Units | | | Date Analyzed | Data Flag |
| S200612-0227 | TH3-540 | | | 12/5/2006 | 8:35 AM | 12/5/2006 | |
| | | T H H | | | | | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | | |
| Alkalinity, Total | SM 2320 B | 200 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 200 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 12/7/2006 | |
| Antimony - ICP-MS | EPA 200.8 | 0.005 | mg/L | 0.002 | Li | 12/18/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.30 | mg/L | 0.002 | Li | 12/18/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.23 | mg/L | 0.002 | Li | 12/18/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Boron - ICP-OES | EPA 200.7 | 7.3 | mg/L | 0.05 | Keller | 12/18/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 10 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 130 | mg/L | 5 | Henderson | 12/6/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 5 | Pacheco | 12/6/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.002 | Li | 12/18/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 1.0 | mg/L | 0.1 | Henderson | 12/6/2006 | |
| Iron - ICP-OES | EPA 200.7 | 0.56 | mg/L | 0.05 | Keller | 12/18/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Lithium - ICP-OES | EPA 200.7 | 1.2 | mg/L | 0.1 | Keller | 12/18/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 5.9 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.030 | mg/L | 0.002 | Li | 12/18/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Pacheco | 12/6/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 12/15/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 12/18/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 0.56 | mg/L N | 0.05 | Henderson | 12/6/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 12/6/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | 0.56 | mg/L N | 0.1 | Henderson | 12/6/2006 | |
| pH | SM 4500 H+B | 8.08 | pH Units | | Pacheco | 12/7/2006 | |
| pH - Temperature | SM 4500 H+B | 19.3 | °C | | Pacheco | 12/7/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 9.6 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 12/18/2006 | |
| Silica - ICP-OES | EPA 200.7 | 96 | mg/L | 0.4 | Keller | 12/12/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 140 | mg/L | 0.5 | Keller | 12/18/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 23 | mg/L | 0.2 | Henderson | 12/6/2006 | |

Page 2 of 13

John Kobza, Ph.D.
Laboratory Director

1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager

C



Laboratory Report

Report ID: 80237

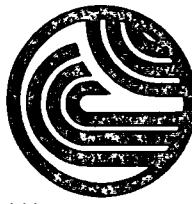
Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/22/2006
Client: WAS-500
Taken by: Widner/VanHoo
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-------------------------------------|--------------------|-----------|--------------|-----------------|---------------|---------------|-----------|
| | TH3-540 | TH4 | | | 12/5/2006 | 8:35 AM | 12/5/2006 |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 12/18/2006 | |
| Total Dissolved Solids | SM 2540 C | 550 | mg/L | 10 | Pacheco | 12/8/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 12/13/2006 | |
| Turbidity | SM 2130 B | 1.4 | NTU | 0.1 | Pacheco | 12/6/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.057 | mg/L | 0.01 | Li | 12/18/2006 | |



Laboratory Report

Report ID: 79978

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: R. VanHoozer
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-----------------------------------|--------------------|---------|------------------------|-----------------|--------------|---------------|-----------|
| | TH5 - 60 | | | 11/20/2006 | 11:30 AM | 11/20/2006 | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 140 | mg/L CaCO ₃ | 2 | Pacheco | 11/21/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 140 | mg/L CaCO ₃ | 2 | Pacheco | 11/21/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/21/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/21/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.013 | mg/L | 0.002 | Li | 11/30/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.11 | mg/L | 0.002 | Li | 11/30/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Boron - ICP-OES | EPA 200.7 | 0.09 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 20 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 4.5 | mg/L | 0.5 | Henderson | 11/20/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 5 | Pacheco | 11/21/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.004 | mg/L | 0.002 | Li | 11/30/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.18 | mg/L | 0.1 | Henderson | 11/20/2006 | |
| Iron - ICP-OES | EPA 200.7 | 1.1 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Lithium - ICP-OES | EPA 200.7 | <0.1 | mg/L | 0.1 | Keller | 11/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | >13 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.21 | mg/L | 0.002 | Li | 11/30/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Pacheco | 11/22/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 11/30/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 1.2 | mg/L N | 0.05 | Henderson | 11/20/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | 0.16 | mg/L N | 0.05 | Henderson | 11/20/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | 1.4 | mg/L N | 0.1 | Henderson | 11/20/2006 | |
| pH | SM 4500 H+B | 7.85 | pH Units | | Pacheco | 11/21/2006 | |
| pH - Temperature | SM 4500 H+B | 21.0 | °C | | Pacheco | 11/21/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 7.8 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 11/30/2006 | |
| Silica - ICP-OES | EPA 200.7 | 69 | mg/L | 0.4 | Keller | 11/22/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 22 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 13 | mg/L | 0.2 | Henderson | 11/20/2006 | |



Laboratory Report

Report ID: 79978

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: R. VanHoozer
PO #: 5500005452

Analysis Report

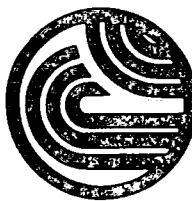
| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-------------------------------------|--------------------|-----------|-------|-----------------|--------------|---------------|-----------|
| | TH5 - 60 | | | | | 11/20/2006 | 11:30 AM |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 11/30/2006 | |
| Total Dissolved Solids | SM 2540 C | 250 | mg/L | 10 | Kobza | 11/22/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 11/27/2006 | |
| Turbidity | SM 2130 B | 9.7 | NTU | 0.1 | Pacheco | 11/21/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.07 | mg/L | 0.01 | Li | 11/30/2006 | |

Data Flag Legend:

John Kobza, Ph.D.,
Laboratory Director

Page 5 of 7
1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager



Laboratory Report

Report ID: 79978

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: R. VanHoozer
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-----------------------------------|--------------------|---------|------------------------|-----------------|--------------|---------------|-----------|
| | TH5 - 180 | | | | | 11/20/2006 | 9:00 AM |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 120 | mg/L CaCO ₃ | 2 | Pacheco | 11/21/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 120 | mg/L CaCO ₃ | 2 | Pacheco | 11/21/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/21/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/21/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.048 | mg/L | 0.002 | Li | 11/30/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.091 | mg/L | 0.002 | Li | 11/30/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Boron - ICP-OES | EPA 200.7 | 0.09 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 17 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 1.5 | mg/L | 0.5 | Henderson | 11/20/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Color Apparent | EPA 110.2 | <5 | Color Units | 5 | Pacheco | 11/21/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.017 | mg/L | 0.002 | Li | 11/30/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.2 | mg/L | 0.1 | Henderson | 11/20/2006 | |
| Iron - ICP-OES | EPA 200.7 | 1.3 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Lithium - ICP-OES | EPA 200.7 | <0.1 | mg/L | 0.1 | Keller | 11/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 8.7 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.23 | mg/L | 0.002 | Li | 11/30/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Pacheco | 11/22/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 11/30/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 0.22 | mg/L N | 0.05 | Henderson | 11/20/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 11/20/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.27 | mg/L N | 0.1 | Henderson | 11/20/2006 | |
| pH | SM 4500 H+B | 8.03 | pH Units | | Pacheco | 11/21/2006 | |
| pH - Temperature | SM 4500 H+B | 20.8 | °C | | Pacheco | 11/21/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 7.3 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 11/30/2006 | |
| Silica - ICP-OES | EPA 200.7 | 69 | mg/L | 0.4 | Keller | 11/22/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 19 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 12 | mg/L | 0.2 | Henderson | 11/20/2006 | |

John Kobza, Ph.D.
Laboratory Director

Page 2 of 7
1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager



Laboratory Report

Report ID: 79978

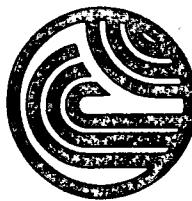
Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: R. VanHoozer
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-------------------------------------|--------------------|-----------|-------|-----------------|--------------|---------------|-----------|
| | TH5 - 180 | | | | | 11/20/2006 | 9:00 AM |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 11/30/2006 | |
| Total Dissolved Solids | SM 2540 C | 220 | mg/L | 10 | Kobza | 11/22/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 11/27/2006 | |
| Turbidity | SM 2130 B | 5.6 | NTU | 0.1 | Pacheco | 11/21/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.04 | mg/L | 0.01 | Li | 11/30/2006 | |



Laboratory Report

Report ID: 79972

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: R.VanHoozer
PO #:

Analysis Report

| Sample ID: S200611-1056 | Customer Sample ID TH5-343 | | | Date Sampled 11/17/2006 | Time Sampled 4:30 PM | Date Received 11/17/2006 | |
|-----------------------------------|-------------------------------|---------|------------------------|----------------------------|-------------------------|-----------------------------|---------------|
| | Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed |
| Alkalinity, Total | SM 2320 B | 110 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 110 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.026 | mg/L | 0.002 | Li | 11/30/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.062 | mg/L | 0.002 | Li | 11/30/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Boron - ICP-OES | EPA 200.7 | 0.1 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 14 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 1.5 | mg/L | 0.5 | Henderson | 11/20/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Color Apparent | EPA 110.2 | 45 | Color Units | 5 | Hellmann | 11/18/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.006 | mg/L | 0.002 | Li | 11/30/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.18 | mg/L | 0.1 | Henderson | 11/20/2006 | |
| Iron - ICP-OES | EPA 200.7 | 1.4 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Lithium - ICP-OES | EPA 200.7 | <0.1 | mg/L | 0.1 | Keller | 11/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 8.3 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.14 | mg/L | 0.002 | Li | 11/30/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Hellmann | 11/18/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 11/28/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 0.47 | mg/L N | 0.05 | Henderson | 11/20/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 11/20/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | 0.52 | mg/L N | 0.1 | Henderson | 11/20/2006 | |
| pH | SM 4500 H+B | 8.19 | pH Units | | Pacheco | 11/20/2006 | |
| pH - Temperature | SM 4500 H+B | 22.2 | °C | | Pacheco | 11/20/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 7.7 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 11/30/2006 | |
| Silica - ICP-OES | EPA 200.7 | 73 | mg/L | 0.4 | Keller | 11/22/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 25 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 14 | mg/L | 0.2 | Henderson | 11/20/2006 | |



Laboratory Report

Report ID: 79972

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: R.VanHoozer
PO #:

Analysis Report

| Sample ID: S200611-1056 | Customer Sample ID | | | Date Sampled 11/17/2006 | Time Sampled 4:30 PM | Date Received 11/17/2006 | |
|-------------------------------------|--------------------|-----------|-------|----------------------------|-------------------------|-----------------------------|---------|
| | TH5-343 | | | | | Reporting Limit | Analyst |
| Parameter | Method | Result | Units | | | | |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 11/30/2006 | |
| Total Dissolved Solids | SM 2540 C | 230 | mg/L | 10 | Kobza | 11/22/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 11/27/2006 | |
| Turbidity | SM 2130 B | 34 | NTU | 0.1 | Hellmann | 11/18/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.05 | mg/L | 0.01 | Li | 11/30/2006 | |

Data Flag Legend:

John Kobza, Ph.D.
Laboratory Director

Page 7 of 9
1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager



Laboratory Report

Report ID: 79972

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: R.VanHoozer
PO #:

Analysis Report

| Sample ID: S200611-1055 | Customer Sample ID TH5-460 | | | Date Sampled 11/17/2006 | Time Sampled 2:05 PM | Date Received 11/17/2006 | | |
|-----------------------------------|-------------------------------|---------|------------------------|----------------------------|-------------------------|-----------------------------|---------------|-----------|
| | Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 110 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | | |
| Alkalinity/Bicarbonate | SM 2320 B | 110 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | | |
| Antimony - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | | |
| Arsenic - ICP-MS | EPA 200.8 | 0.056 | mg/L | 0.002 | Li | 11/30/2006 | | |
| Barium - ICP-MS | EPA 200.8 | 0.058 | mg/L | 0.002 | Li | 11/30/2006 | | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | | |
| Boron - ICP-OES | EPA 200.7 | 0.07 | mg/L | 0.05 | Keller | 11/28/2006 | | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | | |
| Calcium - ICP-OES | EPA 200.7 | 16 | mg/L | 0.5 | Keller | 11/28/2006 | | |
| Chloride - Ion Chromatography | EPA 300.0 | 1.5 | mg/L | 0.5 | Henderson | 11/20/2006 | | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | | |
| Color Apparent | EPA 110.2 | 35 | Color Units | 5 | Hellmann | 11/18/2006 | | |
| Copper - ICP-MS | EPA 200.8 | 0.007 | mg/L | 0.002 | Li | 11/30/2006 | | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.2 | mg/L | 0.1 | Henderson | 11/20/2006 | | |
| Iron - ICP-OES | EPA 200.7 | 0.98 | mg/L | 0.05 | Keller | 11/28/2006 | | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | | |
| Lithium - ICP-OES | EPA 200.7 | <0.1 | mg/L | 0.1 | Keller | 11/27/2006 | | |
| Magnesium - ICP-OES | EPA 200.7 | 7.3 | mg/L | 0.5 | Keller | 11/28/2006 | | |
| Manganese - ICP-MS | EPA 200.8 | 0.16 | mg/L | 0.002 | Li | 11/30/2006 | | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Hellmann | 11/18/2006 | | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 11/28/2006 | | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 11/20/2006 | | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 11/20/2006 | | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | 0.1 | Henderson | 11/20/2006 | | |
| pH | SM 4500 H+B | 8.14 | pH Units | | Pacheco | 11/20/2006 | | |
| pH - Temperature | SM 4500 H+B | 21.7 | °C | | Pacheco | 11/20/2006 | | |
| Potassium - ICP-OES | EPA 200.7 | 7.3 | mg/L | 0.5 | Keller | 11/28/2006 | | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 11/30/2006 | | |
| Silica - ICP-OES | EPA 200.7 | 69 | mg/L | 0.4 | Keller | 11/22/2006 | | |
| Sodium - ICP-OES | EPA 200.7 | 18 | mg/L | 0.5 | Keller | 11/28/2006 | | |
| Sulfate - Ion Chromatography | EPA 300.0 | 8.8 | mg/L | 0.2 | Henderson | 11/20/2006 | | |



Laboratory Report

Report ID: 79972

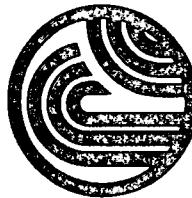
Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: R.VanHoozer
PO #:

Analysis Report

| Sample ID: S200611-1055 | Customer Sample ID TH5-460 | | | Date Sampled 11/17/2006 | Time Sampled 2:05 PM | Date Received 11/17/2006 | |
|-------------------------------------|-------------------------------|-----------|--------|----------------------------|-------------------------|-----------------------------|---------------|
| | Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 11/30/2006 | |
| Total Dissolved Solids | SM 2540 C | 200 | mg/L | 10 | Kobza | 11/22/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 11/27/2006 | |
| Turbidity | SM 2130 B | 14 | NTU | 0.1 | Hellmann | 11/18/2006 | |
| Zinc - ICP-MS | EPA 200.8. | 0.04 | mg/L | 0.01 | Li | 11/30/2006 | |



Laboratory Report

Report ID: 79972

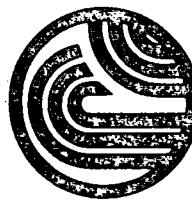
Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: R.VanHoozer
PO #:

Analysis Report

| Sample ID: S200611-1054 | Customer Sample ID TH5-560 | | | Date Sampled 11/17/2006 | Time Sampled 12:50 PM | Date Received 11/17/2006 | |
|-----------------------------------|-------------------------------|---------|------------------------|----------------------------|--------------------------|-----------------------------|---------------|
| | Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed |
| Alkalinity, Total | SM 2320 B | 100 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 100 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/20/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.058 | mg/L | 0.002 | Li | 11/30/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.059 | mg/L | 0.002 | Li | 11/30/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Boron - ICP-OES | EPA 200.7 | 0.06 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 16 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 1.4 | mg/L | 0.5 | Henderson | 11/20/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Color Apparent | EPA 110.2 | 20 | Color Units | 5 | Hellmann | 11/18/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.005 | mg/L | 0.002 | Li | 11/30/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.18 | mg/L | 0.1 | Henderson | 11/20/2006 | |
| Iron - ICP-OES | EPA 200.7 | 0.88 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Lithium - ICP-OES | EPA 200.7 | <0.1 | mg/L | 0.1 | Keller | 11/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 7.4 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.12 | mg/L | 0.002 | Li | 11/30/2006 | |
| MBAS Surfactants | SM 5540 C | 0.06 | mg/L | 0.05 | Hellmann | 11/18/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 11/28/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 11/20/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 11/20/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.1 | mg/L N | 0.1 | Henderson | 11/20/2006 | |
| pH | SM 4500 H+B | 7.98 | pH Units | | Pacheco | 11/20/2006 | |
| pH - Temperature | SM 4500 H+B | 21.5 | °C | | Pacheco | 11/20/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 6.1 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 11/30/2006 | |
| Silica - ICP-OES | EPA 200.7 | 67 | mg/L | 0.4 | Keller | 11/22/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 14 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 8.1 | mg/L | 0.2 | Henderson | 11/20/2006 | |



Laboratory Report

Report ID: 79972

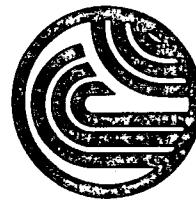
Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: R.VanHoozer
PO #:

Analysis Report

| Sample ID: S200611-1054 | Customer Sample ID | | Date Sampled 11/17/2006 | Time Sampled 12:50 PM | Date Received 11/17/2006 | | |
|-------------------------------------|--------------------|-----------|----------------------------|--------------------------|-----------------------------|---------------|-----------|
| | TH5-560 | | | | | | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 11/30/2006 | |
| Total Dissolved Solids | SM 2540 C | 180 | mg/L | 10 | Kobza | 11/22/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 11/27/2006 | |
| Turbidity | SM 2130 B | 1.7 | NTU | 0.1 | Hellmann | 11/18/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.08 | mg/L | 0.01 | Li | 11/30/2006 | |



Laboratory Report

Report ID: 79927

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-----------------------------------|--------------------|---------|------------------------|-----------------|--------------|---------------|-----------|
| | TH6-100 | | | | | | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 123 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 123 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.009 | mg/L | 0.002 | Li | 11/30/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.12 | mg/L | 0.002 | Li | 11/30/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Boron - ICP-OES | EPA 200.7 | 0.09 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 17 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 2.7 | mg/L | 0.5 | Henderson | 11/17/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Color Apparent | EPA 110.2 | 60 | Color Units | 5 | Hellmann | 11/16/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.006 | mg/L | 0.002 | Li | 11/30/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.2 | mg/L | 0.1 | Henderson | 11/17/2006 | |
| Iron - ICP-OES | EPA 200.7 | 2.9 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Lithium - ICP-OES | EPA 200.7 | <0.1 | mg/L | 0.1 | Keller | 11/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 11 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.11 | mg/L | 0.002 | Li | 11/30/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Hellmann | 11/18/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 11/28/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 1.1 | mg/L N | 0.05 | Henderson | 11/17/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | 0.12 | mg/L N | 0.05 | Henderson | 11/17/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | 1.2 | mg/L N | 0.1 | Henderson | 11/17/2006 | |
| pH | SM 4500 H+B | 8.10 | pH Units | | Pacheco | 11/17/2006 | |
| pH - Temperature | SM 4500 H+B | 21.0 | °C | | Pacheco | 11/17/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 7.7 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 11/30/2006 | |
| Silica - ICP-OES | EPA 200.7 | 71 | mg/L | 0.4 | Keller | 11/22/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 23 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 12 | mg/L | 0.2 | Henderson | 11/17/2006 | |

John Kobza, Ph.D.
Laboratory Director

Page 6 of 9
1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager



Laboratory Report

Report ID: 79927

Sierra
Environmental
Monitoring, Inc.

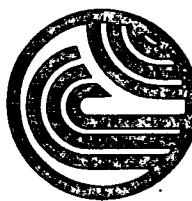
Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-------------------------------------|--------------------|-----------|-------|-----------------|--------------|---------------|-----------|
| | TH6-100 | | | | | 11/16/2006 | 12:00 PM |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 11/30/2006 | |
| Total Dissolved Solids | SM 2540 C | 240 | mg/L | 10 | Kobza | 11/22/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 11/27/2006 | |
| Turbidity | SM 2130 B | 43 | NTU | 1 | Hellmann | 11/16/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.04 | mg/L | 0.01 | Li | 11/30/2006 | |

Data Flag Legend:



Laboratory Report

Report ID: 79927

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-----------------------------------|--------------------|---------|------------------------|-----------------|---------------|---------------|------------|
| | TH6-250 | | | | 11/16/2006 | 10:00 AM | 11/16/2006 |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 91 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 91 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.009 | mg/L | 0.002 | Li | 11/30/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.063 | mg/L | 0.002 | Li | 11/30/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Boron - ICP-OES | EPA 200.7 | 0.09 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 12 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 1.3 | mg/L | 0.5 | Henderson | 11/17/2006 | |
| Chromium - ICP-MS | EPA 200.8 | 0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Color Apparent | EPA 110.2 | 25 | Color Units | 5 | Hellmann | 11/16/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.006 | mg/L | 0.002 | Li | 11/30/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.2 | mg/L | 0.1 | Henderson | 11/17/2006 | |
| Iron - ICP-OES | EPA 200.7 | 1.0 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Lithium - ICP-OES | EPA 200.7 | <0.1 | mg/L | 0.1 | Keller | 11/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 7.8 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.021 | mg/L | 0.002 | Li | 11/30/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Hellmann | 11/18/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 11/28/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 0.38 | mg/L N | 0.05 | Henderson | 11/17/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 11/17/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.43 | mg/L N | 0.43 | Henderson | 11/17/2006 | |
| pH | SM 4500 H+B | 8.13 | pH Units | | Pacheco | 11/17/2006 | |
| pH - Temperature | SM 4500 H+B | 21.2 | °C | | Pacheco | 11/17/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 4.9 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 11/30/2006 | |
| Silica - ICP-OES | EPA 200.7 | 61 | mg/L | 0.4 | Keller | 11/22/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 11 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 4.5 | mg/L | 0.2 | Henderson | 11/17/2006 | |



Laboratory Report

Report ID: 79927

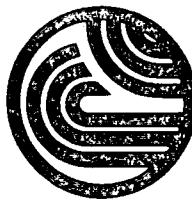
Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-------------------------------------|--------------------|-----------|-------|----------------------|--------------|------------------|--------------|
| | TH6-250 | | | | | 11/16/2006 | 10:00 AM |
| Parameter | Method | Result | Units | Reporting / Limit | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 11/30/2006 | |
| Total Dissolved Solids | SM 2540 C | 160 | mg/L | 10 | Kobza | 11/22/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 11/27/2006 | |
| Turbidity | SM 2130 B | 4.3 | NTU | 0.1 | Hellmann | 11/16/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.05 | mg/L | 0.01 | Li | 11/30/2006 | |



Laboratory Report

Report ID: 79927

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | Date Sampled | Time Sampled | Date Received | | |
|-----------------------------------|--------------------|---------|------------------------|-----------------|---------------|---------------|-----------|
| S200611-0953 | TH6-420 | | 11/16/2006 | 8:30 AM | 11/16/2006 | | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Alkalinity, Total | SM 2320 B | 91 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Alkalinity/Bicarbonate | SM 2320 B | 91 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Alkalinity/Carbonate | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Alkalinity/Hydroxide | SM 2320 B | <2 | mg/L CaCO ₃ | 2 | Pacheco | 11/17/2006 | |
| Antimony - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Arsenic - ICP-MS | EPA 200.8 | 0.009 | mg/L | 0.002 | Li | 11/30/2006 | |
| Barium - ICP-MS | EPA 200.8 | 0.048 | mg/L | 0.002 | Li | 11/30/2006 | |
| Beryllium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Boron - ICP-OES | EPA 200.7 | 0.08 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Cadmium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Calcium - ICP-OES | EPA 200.7 | 12 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Chloride - Ion Chromatography | EPA 300.0 | 1.3 | mg/L | 0.5 | Henderson | 11/17/2006 | |
| Chromium - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Color Apparent | EPA 110.2 | 25 | Color Units | 5 | Hellmann | 11/16/2006 | |
| Copper - ICP-MS | EPA 200.8 | 0.003 | mg/L | 0.002 | Li | 11/30/2006 | |
| Fluoride - Ion Chromatography | EPA 300.0 | 0.2 | mg/L | 0.1 | Henderson | 11/17/2006 | |
| Iron - ICP-OES | EPA 200.7 | 0.58 | mg/L | 0.05 | Keller | 11/28/2006 | |
| Lead - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Lithium - ICP-OES | EPA 200.7 | <0.1 | mg/L | 0.1 | Keller | 11/27/2006 | |
| Magnesium - ICP-OES | EPA 200.7 | 7.7 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Manganese - ICP-MS | EPA 200.8 | 0.028 | mg/L | 0.002 | Li | 11/30/2006 | |
| MBAS Surfactants | SM 5540 C | <0.05 | mg/L | 0.05 | Hellmann | 11/18/2006 | |
| Mercury - AA Cold Vapor | EPA 245.1 | <0.0002 | mg/L | 0.0002 | Kleinworth | 11/28/2006 | |
| Nickel - ICP-MS | EPA 200.8 | <0.002 | mg/L | 0.002 | Li | 11/30/2006 | |
| Nitrate-N - Ion Chromatography | EPA 300.0 | 0.4 | mg/L N | 0.05 | Henderson | 11/17/2006 | |
| Nitrite-N - Ion Chromatography | EPA 300.0 | <0.05 | mg/L N | 0.05 | Henderson | 11/17/2006 | |
| NO ₃ + NO ₂ | EPA 300.0 | <0.45 | mg/L N | 0.45 | Henderson | 11/17/2006 | |
| pH | SM 4500 H+B | 8.16 | pH Units | | Pacheco | 11/17/2006 | |
| pH - Temperature | SM 4500 H+B | 21.1 | °C | | Pacheco | 11/17/2006 | |
| Potassium - ICP-OES | EPA 200.7 | 4.9 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Selenium - ICP-MS | EPA 200.8 | <0.01 | mg/L | 0.01 | Li | 11/30/2006 | |
| Silica - ICP-OES | EPA 200.7 | 61 | mg/L | 0.4 | Keller | 11/22/2006 | |
| Sodium - ICP-OES | EPA 200.7 | 11 | mg/L | 0.5 | Keller | 11/28/2006 | |
| Sulfate - Ion Chromatography | EPA 300.0 | 4.8 | mg/L | 0.2 | Henderson | 11/17/2006 | |



Laboratory Report

Report ID: 79927

Sierra
Environmental
Monitoring, Inc.

Washoe County Dept. of Water Resources
Attn: Michael Widmer
4930 Energy Way
Reno, NV 89520

Date: 12/4/2006
Client: WAS-500
Taken by: M. Widmer
PO #: 5500005452

Analysis Report

| Sample ID: | Customer Sample ID | | | Date Sampled | Time Sampled | Date Received | |
|-------------------------------------|--------------------|-----------|-------|-----------------|--------------|---------------|-----------|
| | TH6-420 | | | | | 11/16/2006 | 8:30 AM |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Thallium - ICP-MS | EPA 200.8 | <0.001 | mg/L | 0.001 | Li | 11/30/2006 | |
| Total Dissolved Solids | SM 2540 C | 180 | mg/L | 10 | Kobza | 11/22/2006 | |
| Total Recoverable Metals - Acid Dig | EPA 200.2 | Completed | | | Kleinworth | 11/27/2006 | |
| Turbidity | SM 2130 B | 7.1 | NTU | 0.1 | Hellmann | 11/16/2006 | |
| Zinc - ICP-MS | EPA 200.8 | 0.05 | mg/L | 0.01 | Li | 11/30/2006 | |

South Buckee Meadows Exploratory Test Drilling - November 16, 2005

Engineer: Mike Widmer

THE JOURNAL OF CLIMATE

COMPANY

COMPANY



Washoe County
Department of
Water Resources
4930 Energy Way
Reno, NV 89502-4106
Tel: (775) 954-4600
Fax: (775) 954-4610

NOTICE OF AWARD

August 30, 2006

RECEIVED

SEP 12 2006

WASHOE COUNTY
DEPT. OF WATER RESOURCES

TO: Humboldt Drilling & Pump Co., Inc.
4975 W. Winnemucca Blvd.
Winnemucca, NV 89445

PROJECT DESCRIPTION: South Truckee Meadows Exploratory Drilling
Phase 2

The owner has considered the bid submitted by you on July 5, 2006, for the work described above.

You are hereby notified that your BID has been accepted for the above project in the amount of \$395,240.00.

You are required by the Instructions to Bidders to execute the Contract and furnish the required Contractor's Performance Bond, Payment Bond, and Certificates of Insurance naming Washoe County as an additional insured, within ten (10) calendar days following the receipt of this Notice to you.

If you fail to execute said Contract and to furnish said Bonds and Certificates within ten (10) days from the receipt of this Notice, said Owner will be entitled to consider all your rights arising out of the Owner's acceptance of your BID as abandoned and as a forfeiture of your Bid Bond. The Owner will be entitled to such other rights as may be granted by law.

Please acknowledge receipt and return this Notice of Award.

Ron Catlett
Chief of Construction & Inspection

Acceptance of this Notice of Award is acknowledged by:

Michelle Strother
(Signature)

Michelle Strother
(Print Name)

Corp Secty
(Title)

9/9/2006

(Date)

Department of

Water Resources

RC/mv
c: Paul Orphan, P.E., Engineering Manager
Michael Widmer, Senior Hydrologist



NOTICE TO PROCEED

Washoe County
Department of
Water Resources
4930 Energy Way
Reno, NV 89502-4106
Tel: (775) 954-4600
Fax: (775) 954-4610

DATE: October 23, 2006

TO: Humboldt Drilling & Pump Co., Inc.
4975 W. Winnemucca Blvd.
Winnemucca, NV 89445

PROJECT: South Truckee Meadows Exploratory Drilling Phase 2
PWP # WA 2006-305

You are hereby notified to commence WORK in accordance with the Contract dated August 8, 2006, on or before October 23, 2006. You are to complete all WORK within 60 calendar days. The date of completion of all WORK is therefore December 22, 2006.

**WASHOE COUNTY
DEPARTMENT OF WATER RESOURCES
UTILITY SERVICES DIVISION**


Ron Catlett

Chief of Construction & Inspection

Acknowledge and return.

ACCEPTANCE OF NOTICE

By: Michelle Widmer

Title: Comp Secty

Date: 10/25/06

NO APN#

When Recorded Return to: Ron Catlett
With the Original Document - WCR
Washoe County Department of Water Resources

COPY - has not been compared

3483507

01/05/2007 02:00:48 PM

Requested By

WASHOE COUNTY WATER RESOURCES

Washoe County Recorder

Kathryn L. Burke - Recorder

Fee: \$0.00 RPTT: \$0.00

Page 1 of 1

NOTICE OF COMPLETION

CONFORMED COPY

Notice is hereby given that the Washoe County Department of Water Resources, acting through its Board of County Commissioners, existing under and by virtue of the laws of the State of Nevada, is hereinafter called the Owner of the following described property:

SOUTH TRUCKEE MEADOWS EXPLORATORY DRILLING, PHASE 2

The Washoe County Board of Commissioners did, on August 8, 2006, enter into an agreement with Humboldt Drilling & Pump Co., Inc., contractor's license number 56797, for the construction of the South Truckee Meadows Exploratory Drilling, Phase 2 project.

On December 20, 2006, a final inspection of the work was conducted by an authorized representative of Washoe County and found to be substantially complete within the terms of the plans and specifications.

Final payment pursuant to the above-referenced agreement shall be due forty (40) days from the filing of this Notice of Completion.

Witness my hand this 4th day of January, 2007.

COUNTY OF WASHOE, by:

Ronald W. Catlett

Ronald W. Catlett
Chief of Construction and Inspection

VERIFICATION

STATE OF NEVADA

)

The undersigned being duly sworn,
says: That he read the foregoing
notice and knows the contents
therefore, and the same is true of his
own knowledge.

COUNTY OF WASHOE

)

Subscribed and sworn to before me this 4th day of January, 2007.



MARY VIDOR
Notary Public - State of Nevada
Appointment Recorded in Washoe County
No: 99-4608-2 - Expires August 8, 2010

Mary Vidor
NOTARY PUBLIC

COUNTY OF WASHOE, BY:

Ronald W. Catlett

RONALD W. CATLETT
Chief of Construction & Inspection.

Contract Documents and Specifications
S. Truckee Meadows Exploratory Drilling, Phase 2

WELL SPECIFICATIONS

1. SCOPE OF WORK, MOBILIZATION AND DEMOBILIZATION

The work to be performed includes the furnishing of all labor, materials, transportation, tools, supplies, plant equipment and appurtenances and incidentals to the project; the establishment of offices, buildings and other facilities necessary for work on the project; premiums or bonds and insurance; and for all other work and operations which must be performed or costs incurred before beginning work on various contract items; unless hereinafter specifically excepted, necessary to the complete and satisfactory construction, development and sampling three, 700-1100 feet exploratory test wells. These four-inch diameter test wells will be constructed with multiple, ten-feet, slotted casing sections for straddle packer sampling. Drill cutting formation samples will be collected every ten feet, labeled, and stored in plastic baggies.

Payment for Mobilization and Demobilization will be made as follows:

When 10% of the total original contract amount is earned from other bid items, 100% of the amount bid for mobilization, or 10% of the total original contract amount, whichever is the least will be paid. Upon completion of all work on the contract, payment of any amount bid for mobilization in excess of 10% of the total original contract amount will be paid. Demobilization shall be considered incidental to mobilization.

2. ALLOWANCES

This section covers the furnishing of materials, equipment, and labor for any work not included in the plans, specifications, or Schedule of Items and Prices. Provisions of sections 124.00 and 125.00 of the Standard Specifications for Public Works Construction (SSPWC) apply to work covered by this specification.

A bid item has been established to compensate for any costs allowed as a result of unforeseen interferences, changes to the work, or other items in connection with constructing the improvements, which require work or material by the Contractor in addition to those items included in the Contract. The amount to be included in the Contract for such work shall be as set forth in the Proposal-Schedule of Items and Prices and must be include by the Bidder.

Payment for work covered by this specification and the associated bid item in the Proposal-Schedule of Items and Prices will be as approved by the Owner. Payment will be based on the price negotiated for the additional work, or on a cost accounting basis.

Payment will be made only for additional work preformed. Depending upon the mount of additional work authorized and completed at the close of the Contract, the amount bid may be

Contract Documents and Specifications
S. Truckee Meadows Exploratory Drilling, Phase 2

entirely, partially, or not used. The Contractor shall not perform any work covered under this section until notified by the Owner to proceed.

3. CONTRACTOR QUALIFICATION

The Contractor shall have been engaged in the business of constructing gravel envelope wells of diameter, depth and capacity equivalent to the proposed wells for a period not less than 5 years.

The Contractor shall employ only competent workman for the execution of his work and all such work shall be performed under the direct supervision of an experienced, State of Nevada licensed well driller satisfactory to the owner.

4. PERMITS, CERTIFICATES, LAWS AND ORDINANCES

The Contractor shall, at his own expense, procure all permits, certificates and licenses required of him by law of the execution of his work. He shall comply with all local, County and State regulations necessary for the performance of his work.

5. LOCATION AND ACCESS

The South Truckee Meadows well sites are located approximately 3 miles south of the McCarran Ring Road in Reno, NV and near U.S. Highway 395 in Sections 8 and 17 of T18N, R20E. Well site access is on paved road. A site location and access map is shown in Figure 1. The Contractor shall familiarize himself with surface and subsurface conditions at the drilling site prior to bidding.

6. EQUIPMENT AND OPERATING REQUIREMENTS

The equipment to be furnished shall be approved by the Owner and have excess capacity to construct the well as specified herein; and shall include the following accessory equipment:

- a. Portable, self-contained mud system with operational desanders and shale-shaker. The system provided shall have a minimum volume capacity of 2,000 gallons.
- b. Mud pump capable of lifting borehole fluids from an excess of 1,100 feet at the proper up-hole velocity.
- c. Mud pressure gauge.
- d. Weight indicator.
- e. Drill collars for added weight during early stages of drilling.

Contract Documents and Specifications
S. Truckee Meadows Exploratory Drilling, Phase 2

- f. Plastic sheeting or drip pans will be placed under the drill rig and all motorized equipment associated with drilling operations, development pumping and test pumping to prevent soil contamination by petroleum based products.

7. DRILLING FLUID CONTROL

The drilling will encounter medium to fine grained sediments to depths of greater than 700 feet and probably less than 1,100 feet, before encountering volcanic bedrock. The proposed test well sites are located in an area where artesian flowing conditions are expected. **A pre-approved mud program that addresses flowing artesian conditions will be mandatory.** The Contractor shall develop and maintain a drilling fluid program that addresses mix volumes of all additives, gradual formation fluid loss, loss circulation zones and appropriate methods for measuring all required fluid properties. When it becomes necessary to add clays or chemicals to the drilling fluid, it is the Contractor's responsibility to maintain a mud system containing a minimum of clay and fine sand and to deposit a thin, easily removable filter cake on the face of the borehole. If there should be a conflict between the mud requirements for ease in drilling and the mud requirements for protection of the aquifer, then the ruling requirements shall be those for aquifer protection.

The Contractor will measure basic and complete drilling fluid properties during drilling of the well borehole. Basic fluid properties to be monitored shall at least include fluid viscosity and density. Basic fluid properties shall be measured a minimum of every 2 hours during a drilling shift. Complete fluid properties will at least include viscosity, density, sand content, and wall cake thickness. Complete fluid properties shall be monitored a minimum of 2 times a shift or every 100 feet of borehole drilled, whichever occurs first. Fluid properties will be measured using a Marsh Funnel for viscosity, a fluid density balance for density and sand content and a mud cake filter press for wall cake thickness. The Contractor is responsible for providing the necessary equipment and qualified personnel for performing all measurements. Copies of all recorded measurements will be supplied to the Owner.

In the event it is the opinion of the Owner that drilling fluid properties are not being maintained in the best interest of aquifer protection, the Owner may require the Contractor to obtain the services of a qualified mud engineer. The Contractor shall be responsible for any payment required for the services of the mud engineer. A mud engineer shall have the responsibility to maintain mud and loss-circulation properties in a manner meeting goals of aquifer protection. The Contractor shall monitor and maintain the fluid properties as outlined by a mud engineer. In the event the Contractor cannot attain these properties, the mud shall be replaced at no additional cost to the Owner.

Mud pits constructed in the ground are not allowed. It is the responsibility of the Contractor to haul off all drill cuttings from the site and dispose of properly.

Contract Documents and Specifications
S. Truckee Meadows Exploratory Drilling, Phase 2

8. GEOPHYSICAL LOGGING

The Contractor shall provide a geophysical log of the monitor well borehole from a reputable Well Logging Contractor such as WELENCO or approved equal. The logs shall consist of Point, Long and Short Normal Resistivity, Spontaneous Potential, Caliper, and Gamma. The Contractor shall make every reasonable effort to ensure logging of the entire borehole. Payment for geophysical logs shall be at the price quoted in the "SCHEDULE OF ITEMS AND PRICES".

9. WELL CONSTRUCTION

The project consists of constructing three test wells for the purpose of discrete zone, water quality sampling. Conductor pipe, nominal 14-inches diameter, will be installed to a depth of 40-feet. A tremmie pipe shall be installed to the bottom of the borehole prior to well construction. At the direction of the Owner, ten-feet sections of double-slotted, four-inch diameter well casing will be installed at approximate 100 feet intervals.

Borehole - The boreholes shall be drilled to the depth specified by the Owner. Formation samples shall be taken at 10-foot intervals and at each change in formation during drilling of the exploratory test hole. Samples shall be labeled and stored in sample bags provided by the Contractor. The Owner will determine and submit the design of the test well to the contractor within 24 hours after the termination of the borehole drilling. Standby time will not be paid during this period.

Payment for the test hole shall be based on a per foot basis as outlined in the "SCHEDULE OF ITEMS AND PRICES" for the total footage drilled at the request of the Owner. No payment shall be made for over drilling as desired by the Contractor.

Pipe and Casing - All production and conductor well casing shall be spiral welded, fabricated or mill-type black steel pipe. Steel for fabricated pipe shall conform to manufacturer standards for A53B, ASTM A139B or better. The conductor well casing shall have a nominal diameter of 14-inches with a minimum wall thickness of 0.250 inches. The well casing shall have a nominal diameter of 4-inches with a minimum wall thickness of 0.188 inches. All well and conductor casing shall be of new, first quality materials and free of defects in workmanship and handling. No reject, sub-grade or limited-use pipe is acceptable.

Payment for conductor and well casing shall be at the per foot price for casing installed at the request and approval of the Engineer as outlined in the "SCHEDULE OF ITEMS AND PRICES".

Slotted Well Casing - The slotted well casing shall have a diameter of 4-inches. Slotted well casing shall be of new, first quality material, free of defects in workmanship or handling. The slotted well casing shall be constructed of low carbon steel and have a minimum strength of

Well Specifications

Contract Documents and Specifications
S. Truckee Meadows Exploratory Drilling, Phase 2

construction recommended by the manufacturer for the depth specified. The slotted casing shall have 3-inch by 1/8-inch milled "double" slots. A blank casing sump with a steel plate shall be welded to the bottom of the casing string.

Payment for slotted well casing shall be at the per foot price installed at the request and approval of the Engineer as outlined in the "SCHEDULE OF ITEMS AND PRICES".

Grout Surface Seal Installation - The annular space between the conductor well casing and borehole shall be sealed with cement grout or neat cement from a depth of 40 feet to the ground surface. The slurry shall be placed by positive displacement through a tremmie pipe or by the Haliburton method. The cement grout or neat cement shall consist of a mixture of 5.2 gallons of clean water mixed with each 94-lb. sack of Portland type C cement (refer to the definitions for the respective type as described in *Regulations for Water Well and Related Drilling, Nevada Department of Conservation and Natural Resources, Division of Water Resources, January 1998, pages 534-4 and 534-5.*) The cement grout shall be thoroughly mixed and free of lumps and stones and run through a protective strainer before pumping into the well. The final mix shall produce a slurry weight of 15.6 lbs./gal. Calcium chloride, bentonite or other additives are not allowed. The seal shall be placed in one continuous operation once the process begins. The sanitary surface seal shall be left undisturbed for a minimum of 24 hours after the final batch or lift of slurry has been placed. No standby time shall be paid during this period.

Payment for conductor grout seal shall be at the "per cubic yard" price installed at the request and approval of the Engineer as outlined in the "SCHEDULE OF ITEMS AND PRICES". The Contractor shall provide an invoice stating the quantity of grout pumped into the annular space.

Casing Installation - The borehole shall be drilled with diligence and without undue delays. The gravel must be at or near the project site so there will be no waiting on gravel once the casing has been installed. The exploratory well borehole shall be drilled at a nominal diameter of twelve (12) inches.

Casing shall be installed using methods approved by the Owner. The test well casing shall be suspended above the bottom of the hole at a sufficient distance to insure that it is not supported from the bottom. The suspended casing shall be firmly secured at the surface until gravel and seal are permanently installed. The well casing shall have centering guides approved by the Owner. Centering guides shall be installed at points specified by the Owner but in no case shall be more than 200 feet apart. Welders required for field assembly of well casing shall be qualified in accordance with the latest revision of the section titled, Welding Procedures of the AWA Standard Qualification Procedure. A continuous, watertight full fillet weld shall join all sections and centering holes if applicable.

Well Specifications

Contract Documents and Specifications
S. Truckee Meadows Exploratory Drilling, Phase 2

Payment for casing installation shall be at the "per linear foot" price installed at the request and approval of the Engineer as outlined in the "SCHEDULE OF ITEMS AND PRICES".

Grout - The grout seal between slotted casing sections shall consist of a 50% mixture of sand and bentonite, the grade of both must be approved by owner. The grout shall be emplaced by pumping through a tremmie pipe at the rate of not greater than 1 ½ ft/min. Grout shall be emplaced to within ten feet below and then ten feet above slotted sections to the top slotted section. Neat cement will then be used to fill the annular space to the land surface. Payment for grout seal shall be at the "per cubic yard" price installed at the request and approval of the Engineer as outlined in the "SCHEDULE OF ITEMS AND PRICES". The Contractor shall provide an invoice stating the quantity of grout pumped into the annular space.

Gravel - The gravel to be installed shall be 1/4 x 1/8, sound, durable, well-rounded particles containing no silt, clay, organic matter or deleterious materials. Gravel shall be delivered and stored at the drill site in protective bag containers. The gravel shall be emplaced via tremmie pipe and shall envelope the well from ten feet below any slotted section to ten feet above any slotted section. It is anticipated that the Contractor shall use an appropriate washed material as gravel pack for the test well. Payment for gravel shall be at the per cubic yard price for gravel installed, as outlined in the "SCHEDULE OF ITEMS AND PRICES". The Contractor shall supply Owner with a gravel invoice, stating quantity and type of gravel delivered.

The Contractor shall have the responsibility to determine when conditions with respect to drilling fluid and hole stability are satisfactory for gravel placement without bridging. Placement of gravel shall be through a tremmie pipe installed to within 1-foot of the top of a grouted section. Only potable water shall be mixed with the gravel during placement through the tremmie pipe.

Because of the anticipated artesian conditions, gravel may not be able to overcome artesian head to travel down the tremmie pipe. Additionally, if the borehole mud is not maintained during gravel installation, the hole may collapse before gravel is installed. If these conditions prevail, the Contractor will select a method approved by the Owner to install the gravel pack utilizing a drilling mud heavy enough to keep the borehole from collapsing, but allowing the gravel pack to be installed.

The Contractor shall be responsible for placing the gravel in the annulus without bridging. Bridging of gravel pack shall be assumed if gravel packing does not utilize at least 90% of the calculated annular space volume for the specific twenty feet interval. If the gravel bridges, the Contractor shall correct the problem with no damage to the well or drill a new well, complete, at his expense. If the Contractor chooses to drill a new well, he shall be responsible for all costs associated with properly abandoning the existing well.

Well Specifications

Contract Documents and Specifications
S. Truckee Meadows Exploratory Drilling, Phase 2

10. WELL DEVELOPMENT

Initial development – Initial development shall be through air or water displacement via tremmie pipe. It is expected that the well will become flowing after initial development and therefore clean itself of drilling fluids. The Contractor shall provide the Owner an acceptable well development plan. Well development by displacement will continue until it is the opinion of the Owner that initial well development is complete. The Contractor will contain and direct all discharge water produced during well development. The Owner will allow certain discharges to sewer drains or to the land surface provided there are no environmental constraints. Low viscosity muds must be removed from the site and can be transported to a county facility by the Contractor.

If the Contractor chooses, he shall use U.S. Filter/Johnson Screens NW-220 dispersing polymer or approved equivalent and apply the dispersant in the quantity necessary to properly develop the well. If used, it is the responsibility of the Contractor to develop the well using the selected product in a manner recommended by the manufacturer for wells of this diameter, depth and formations penetrated. Documentation of proper application volumes, ratios and method of introduction will be supplied to the Owner prior to product use. The dispersant will be mixed thoroughly and allowed to remain in the well undisturbed according to manufacturer recommendation before resuming development. No stand by time will be paid during this period.

Payment shall be at the hourly rate outlined in the "SCHEDULE OF ITEMS AND PRICES".
Payment shall be for actual displacement time and shall not include setup or tripping in and out of well.

Pump Development - The Contractor shall furnish, install, operate and remove a straddle packer pump system for developing and sampling the slotted sections of the test wells. Development pumping shall continue until the discharge is clear and the Owner is satisfied with development. Once the discharge is clear and clean, water quality samples will be taken and provided to the Owner. The Contractor shall provide the Owner an acceptable water quality sampling plan. Payment shall be at the hourly rate outlined in the "SCHEDULE OF ITEMS AND PRICES".
Payment shall be for actual pumping time and shall not include setup or tripping in and out of well.

11. WELLHEAD COMPLETION

After testing and approval of the well by the Owner, the well shall be capped in a manner approved by the Owner. The test well casing shall be capped with a 0.250-inch minimum thickness steel plate fully welded to the casing. A 2-inch lockable access cap shall be welded to the plate to allow access for measuring the static water level in the well. If the completed well is under artesian flowing condition, a pressure gage fitted to the access port will be required. Payment for wellhead completion shall be at the "per each" price installed at the

Contract Documents and Specifications
S. Truckee Meadows Exploratory Drilling, Phase 2

request and approval of the Engineer as outlined in the "SCHEDULE OF ITEMS AND PRICES".

12. SITE RESTORATION

The Contractor shall restore site to original or better condition. All drilling fluids and cuttings shall be removed from the site. If after drilling fluids and cuttings are removed, importation of suitable material is required, it shall be imported and placed at the sole expense of the Contractor. Site restoration shall include compaction of suitable materials in areas planned for future construction of roads, buildings or other structures per Washoe County specifications. It is the responsibility of the Contractor to familiarize himself with any special requirements of site restoration. All site restoration shall be considered incidental to mobilization and demobilization and no additional payment will be made to the Contractor for restoration work.

**Schematic of TH#2 completion
with one piezometer**

