NVEnergy

May 14, 2013

Ms. Alison Oakley
Nevada Division of Environmental Protection - Bureau of Corrective Action
901 South Stewart Street
Carson City, NV 89701

Re: NV Energy
Reid Gardner Station Facility ID# H-000530
First Semi-Annual 2013 Groundwater Monitoring and Remediation Report

Dear Ms. Oakley:

The Annual Sampling Record, Tables 1, 1A, 3 and 4, copies of the laboratory analytical reports, chain-of-custody documentation, maps of the entire site that illustrate the groundwater elevations and iso-concentrations of chemicals of concern, and graphs are included on the attached CD titled First Quarter 2013 Groundwater Monitoring and Remediation Report. The file formats are either PDF, WORD, or EXCEL.

Following is a brief summary of the activities conducted during the first quarter 2013 at the above-referenced facility (for an update on Administrative Order On Consent (AOC) Activities, please refer to the section **Administrative Order On Consent (AOC) Activities** of this report):

WORK PERFORMED THIS QUARTER – FIRST QUARTER 2013

- Conducted the First Semi-Annual 2013 sampling event

WORK PROPOSED FOR NEXT QUARTER – SECOND QUARTER 2012

- AOC quarterly groundwater gauging
- Continue efforts to improve and maintenance of the groundwater extraction and treatment systems

Current Phase of Project:	Monitoring/Remediation	(Assessment, etc.)
Frequency of Monitoring:	Quarterly	(Quarterly, etc.)
Frequency of Sampling:	Semi-Annually	(Quarterly, etc.)
Separate-Phase Hydrocarbons Present:	Yes in NE part of Plant Area	(Yes/No)
Current Remediation Techniques:	Groundwater P&T	(DPE, P&T, etc.)
Approximate Depth to Groundwater:	3.61 to 151.87	(foot/TOC)
Average GW Change from Last Quarter:	-0.690	(GW Elevation feet)
General Groundwater Flow Direction:	Easterly	(Direction)

Response to Comments

The NDEP provided comments on the Second Semi-Annual 2012 Groundwater Monitoring Report on January 4, 2013. The comments are shown below along with responses from NVE.

Comment #1

"General Comment, Diesel Recovery System: In past reports NDEP has commented about the length of time the diesel recovery system has not been operational. For the previous semi-annual report, NDEP requested a more detailed summary, including a list of the options being evaluated and a proposed plan moving forward. The current semi-annual report discusses a pilot test that was conducted in October that was not successful in resolving the issues and proposes an additional pilot test during the first quarter of 2013. A couple of potential alternative options are listed to be evaluated if the second pilot test does not produce the desired results. At this point, NV Energy's detailed summary and proposed plan consists of another pilot test conducted as much as six months after the previous failed pilot test, and then evaluation of alternatives if that pilot test also fails to resolve the problem. The system has not operated in over two years and there does not appear to be a realistic timeframe for when free product recovery will resume. NV Energy needs to accelerate their evaluations and make free product recovery a priority. A more concerted effort that includes concurrent evaluations of options and a timeframe for completion and startup of a robust diesel recovery system is needed. NV Energy may consider the Interstate Technology & Regulatory Council's (ITRC), Evaluating LNAPL Remedial Technologies for Achieving Project Goals (December 2009; http://wv.itrcweb.org/Documents/LNAPL-2.pdf) guidance in developing a plan to support diesel recovery."

Response #1

In response to NDEP's Comment #1, NVE retained Broadbent & Associates, Inc. (BAI) in January 2013 to assess the diesel recovery system and evaluate the need for effective diesel fuel recovery from the subsurface. Following baildown tests in selected wells to evaluate the feasibility of Light Non-Aqueous Phase Liquid (LNAPL) extraction from existing wells and the formation, an evaluation of the remediation system, and modifying the elevation of extraction stingers in remediation wells, the system was put into operation on February 12, 2013. A letter was sent to Ms. Alison Oakley on March 19, 2013 in response to Comment #1 describing the remediation work to date. NVE received an email from Ms. Alison Oakley on March 27, 2013 accepting the March 19, 2013 letter as a response to Comment #1.

Comment #2

"General Comment, Monitoring Well Network Update: Numerous issues regarding the existing monitoring well network have been raised with each monitoring report, including silt in wells and turbid samples. roots and obstructions in wells, well yield issues, and inconsistent laboratory analytical results. Considering that the conceptual site model (CSM) has not been finalized, and that further delineation of sources, critical flow paths, and potential receptors needs to be completed, the monitor well network remains a work in progress. It may be useful to evaluate and prioritize existing wells based on how critical they are to monitoring the extent of groundwater impacts, and determine which wells are adequate, which are problematic but critical and need to be rehabilitated, and which can be abandoned. Once the CSM is more formally defined, the overall monitor well network can be updated incorporating such things as well spacing and location and appropriate screen interval design."

Response #2
NVE addressed several problematic wells during the first quarter of 2013. A detailed discussion is included in the Monitoring Well Network Updates Section. NVE is re-evaluating the usefulness of the data generated from other wells (i.e. P-17A and P-17B) and will propose modifications to the existing groundwater monitoring requirements in a GMR sampling reduction memo, tentatively planned to be submitted to the NDEP during the second quarter of 2013.

Comment #3:
"General Comment, Dissolved Constituent Concentration Maps (figures 3-9): Pending completion of the background conditions evaluation, the current methods to depict concentrations of constituents in groundwater is adequate, but can be improved. Contour intervals are somewhat arbitrary, vary greatly, and do not necessarily reflect the extent of impacts associated with known sources. This will have to be resolved at some point once background conditions are determined and the monitor well network is established."

Response #3
The contour intervals have been updated for arsenic (figure 3), magnesium (figure 4), manganese (figure 5), selenium (figure 6,), sodium (figure 7), sulfate (figure 8), and total dissolved sulfates (figure 9). The contour intervals were based on Fourth Quarter 2012 AOC meeting discussions (notes dated December 5, 2012) and the current sampling event groundwater concentrations. NVE acknowledges that contour intervals may be modified further once background conditions are established.

Comment #4:
"General Comment, Concentration Trend Graphs: The concentration trend graphs provided are useful in evaluating long-term concentration trends at monitoring wells, as well as identifying potential data outliers. A review of critical monitor well locations should include an assessment of which wells should be used to prepare concentration trend graphs to adequately monitor the extent of groundwater impacts and the fate of contaminants over time."

Response #4
NVE added a trend graph of the Former Pond D area to this report. The trend graph is located in the Graphs section and discussed in the Summary of Analytical Results.

Monitoring Well Network Updates

On January 9, 2012, the NDEP Bureau of Corrective Actions (BCA) approved NVE's request for an interim reduction in groundwater sampling frequency and elimination of total petroleum hydrocarbon (TPH) monitoring. The wells regulated by the NDEP BCA are now sampled semi-annually during the first and third quarters. Groundwater monitoring wells will continue to be gauged for depth to water and product thickness every quarter. This change will be in effect until a Final Groundwater Sampling Plan is approved by NDEP. This report summarizes the results of the First Semi-Annual 2013 Sampling Event.

IMW-3S and IMW-3D, wells located north of the site, are located on Bureau of Land Management (BLM) land. The BLM right-of-way access to these wells is being amended. NVE has temporarily suspended activities at these wells until access is resolved.

Ten new wells were installed in the Pond 4B and 4C area during the first quarter of 2013 and sampled for the first time. These wells were installed to evaluate potential impacts to groundwater from the evaporation ponds.

On January 3, 2013 NVE sent an email to the NDEP requesting concurrence on the plug and abandonment of three monitoring wells: IMW-15, P-1R, and P-9. The NDEP concurred with the request on January 3, 2013. These wells were abandoned on March 15, 2013. NVE also redeveloped 10 existing CMW wells located within Former Pond 4A between February 21 and March 3, 2103. The abandonment and redevelopment activities are described in the April 10, 2013 Groundwater Well Installation, Development, Redevelopment, and Abandonment Report, which was previously submitted to the NDEP. Finally, NV Energy repaired the casings of three wells: MW-4, MW-9, and P-2.

Corrections

On December 21, 2012 the NDEP requested clarification on the First Semi-Annual 2012 report data tables. The NVE submitted the following Table 1 corrections to the NDEP:

- P-8R sample date is 2/27/12 and not 12/5/11
- P-9 should be excluded from the table. It was not sampled during the first quarter of 2012.

Summary of Analytical Results

Please refer to the 2012 Annual Sampling Record (included on attached CD), which identifies which well samples were collected this quarter and provides remarks on field conditions at the time of sampling. Laboratory analytical results for groundwater samples collected in February and March 2013 are summarized in Table 1. Muddy River samples are also included for reference in Table 3 although they are not required under this permit.

A statistical analysis was performed to identify data which may be outliers. The current data was compared with the mean of the data collected since the third quarter of 2008, the first sampling event where electronic data delivery was used. Current values that were more than three standard deviations from the mean were evaluated further. These concentrations were compared to the range of historic values, resulting in a list of potential outliers. Contour maps and trend graphs from recent quarters were also compared to identify potential outliers. The laboratory and field personnel were then consulted regarding these outliers. Field personnel reviewed their field book and forms for possible deviations, inconsistencies and/or unusual observations. The laboratory Quality Assurance Officer reviewed instrument bench level data, calculations, quality control data, and data transcription. This process resulted in several locations and parameters that could be considered outliers, as discussed below.

<u>Site-Wide</u>
The Second Semi-Annual 2012 GMR reported that selenium concentrations were higher than historic levels. At the first quarter 2013 AOC meeting, additional data was presented that showed lower selenium concentrations as a result of a re-analysis of the samples, indicating inconsistent results. NVE suggested to change the selenium analytical method from ICP to ICP-MS and will propose this change in a future letter to the NDEP. NVE continued to analyze selenium by ICP this sampling event. Selenium concentrations returned to historical levels this quarter as seen in Table 1, Figure 6, and the laboratory results provided on the attached CD.

<u>Mesa Wells</u>
During this quarter, one well (LMW-3) was purged dry prior to sampling and groundwater samples from the following mesa wells exhibited silty conditions: LMW-2, LMW-3, LMW-4R

LMW-7, LMW-9, LMW-10, KMW-12, and KMW-16. This is consistent with previous field observations. These wells are all screened in the upper portion of the Muddy Creek Formation which described as an interbedded fine-grained sand, silt, and clay formation. Over time, silt accumulates in the Mesa wells necessitating redevelopment or replacement of the wells. High silt content in wells can potentially compromise sample quality. As a precaution, samples are filtered by the laboratory prior to analysis to minimize the impact of the silt on the water quality results. TDS concentrations have remained relatively constant on the mesa, an indication of the comparability of sampling conditions, procedures, and analytical methods. Previous total well depth measurements indicate that LMW-10 has a significant silt accumulation in the bottom of the well according to well construction information and recently measured well depths. NVE redeveloped the well in the second quarter of 2012 and was not able to remove a significant amount of silt. The bottom of the well was resounded and found to be hard and flat. When compared to the available construction diagram, the bottom was several feet above the well depth at construction, and within the screened interval. The well was built with a tailpipe and it may have been filled with grout at some point. NVE is now reconsidering replacing this well which would require BLM approval.

Hogan Wash Area

The Hogan Wash wells are located west of Pond 4B-3 between two mesas, one to the north and another to the south. Trend graphs of Hogan Wash conditions were provided in the First Semi-Annual GMR 2012 and have been updated as seen in the Graphs section of this report. Sulfate concentrations are highest in KMW-1S with a slight overall decrease in concentrations since Third Quarter 2008 and a significant decrease with depth in this well cluster. Sulfate concentrations in downgradient well KMW-19 have also decreased over time. TDS concentrations in this area, with the exception of a few outliers, show trends similar to sulfate.

During this sampling event, KMW-1S was bailed dry at two gallons and field personnel report that it typically recharges very slowly, similar to previous sampling events. Roots were noted on the bailer for the second time. This well is screened from 10 to 25 ft bgs. The hydrograph in the Graphs section of this report shows that the groundwater elevation in KMW-1S varies seasonally and has decreased three to four feet overall since the well was installed in 1998. This hydrograph shows less overall groundwater elevation decline than on the mesa although the mesa wells do not exhibit seasonal groundwater elevation variations as at this alluvial well, located at the east end of the wash. Because this well is nearly dry, NVE will discuss abandonment with the NDEP during the next AOC meeting.

IMW-2SR was noted as having a sulfur odor and the groundwater sample had a slightly gray color. The odor was localized around the well and became more pungent as the well was bailed. This is the fifth time the well has been sampled and field conditions were similar in previous quarters with the exception that no roots were noted on the pump this quarter. This well is screened from 19 to 39 ft bgs and the groundwater elevation this quarter was approximately 21 ft bgs. The well was pumped dry at 20 gallons. This well was installed in the third quarter of 2011 and the screen is set in a varied lithology including silty sand, clay with sand and silt, sandy silt, sandy gravel, and sand. Although sulfate concentrations are low in IMW-2SR, the odor may indicate reducing conditions.

Unit 4B/C Pond Wells

All of the wells in Unit 4B and 4C pond area are completed in the alluvial aquifer. Sixty percent of these wells were purged dry prior to sampling this quarter.

MW-10RR, located on the west side of Pond 4C-2, was noted as having purge water with a light green gray hue this quarter. This color change had no apparent impact on the laboratory analysis results as no outliers were found. During previous sampling events, roots were noted on the pump head but were not observed this quarter. The groundwater elevation was approximately eight feet above the bottom of the screen; however, the well was pumped dry. This well was installed in the second quarter of 2011 and screened from 6 to 16 ft bgs in deposits of interbedded sandy gravel, clayey sand, and lean clay. NVE will continue to watch the conditions at this well for chemical and physical changes.

Ten new four-inch diameter wells (MW-11 to MW-16) were installed around and in between Pond 4B and 4C during the first quarter of 2013 and consist of six shallow and four medium depth wells. Boring logs and well construction diagrams are included in the April 10, 2013 Groundwater Well Installation, Development, Redevelopment, and Abandonment Report, which was previously submitted to NDEP. In general all the shallow wells were screened within interbedded silty sand and sand clay deposits of the alluvial aquifer. The medium depth wells were primarily screened in a lower silty sand deposit separated from the shallow wells by a sandy clay layer. Based on the analytical results, this clay deposit between the shallow and medium depth wells is acting as a restrictive layer inhibiting groundwater contaminants from migrating vertically to deeper portions of the alluvial aquifer. Samples were collected for the first time this quarter and results are included in the tables and figures. All the wells were pumped dry and noted silty upon sample collection. A sulfur odor was also noted in MW-12S, which is located in the middle of Pond 4B and C.

Downgradient wells MW-2R and MW-3RR, located on the east and south sides of Pond 4B-1 respectively, were noted as having a light orange hue this quarter, however like MW-10RR, no laboratory outliers were found.

Unit 4A Pond Wells

NVE samples the CMW wells, located within Pond 4A, to evaluate groundwater quality within an area of a former pond and to evaluate how groundwater quality changes with depth. These wells were redeveloped this quarter for the first time since construction in 2005 due to observed silt accumulation and its potential to impact analytical results. Almost all of the shallow CMW wells were noted as having silty conditions this quarter, therefore it is not clear whether redevelopment had any impact. The Unit 4A Pond wells are completed in the alluvial aquifer which is described as being comprised of interbedded fine sand, silt and clay. Due to the unusually wet spring, all wells reported higher groundwater elevations, which resulted in lower TDS concentrations this quarter. NVE will continue to monitor the conditions in these wells.

MW-9 was being repaired at the time of sampling. Field personnel reported a strong organic decomposing odor while purging the first five gallons. The sample was clear with a light sewage odor. A slight yellow hue was also noted in downgradient well KMW-15. Both of these wells were constructed in the upper portion of the alluvial aquifer. No laboratory outliers were found in either of these wells this quarter. NVE will continue to monitor the conditions at these well.

IMW-2.5S and IMW-2.5D were constructed in the alluvial aquifer upgradient of the Unit 4A Pond wells. A cloudy lite yellow hue was noted in the IMW-2.5S collected sample for the first time this

quarter; however no laboratory outliers were found. NVE will continue to monitor the condition at this well.

Units 1, 2, 3 Pond Wells

The wells in the area of the Units 1, 2, and 3 ponds are all completed in the alluvial aquifer and, in general, do not produce much water. Almost three quarters of these wells were purged dry prior to sampling this quarter. A yellow hue or an orange tint was noted in almost half the wells located around the Unit 1,2,3 Ponds, consistent with previous observations. Field personnel noted that wells P-17A, P-17B, and P-18B, located around Pond F and near the Muddy River, recharge very slowly. This observation is also consistent with previous quarters. No data outliers were noted this quarter when compared to past data in these wells. Boring logs are not available for these wells, but it is understood that the wells were installed before the mid-1980s. As discussed in the fourth quarter 2011 GMR, a camera investigation revealed that these wells have 5-foot screen lengths. Another well in the area, P-18A, has been dry for several quarters. The camera investigation showed wooden debris clogging the casing. Considering the age of these four wells and the nature of the groundwater conditions in this area, the usefulness of these well will be evaluated as part of the geologic data gaps and source area investigations

The casing around well P-2, located at the east side of Pond E, was repaired during the first quarter of 2013. In the previous sampling event, field personnel had noted a yellow hue in this well but not during this quarter. Two other wells were plugged and abandoned due to organic materials and roots. P-9, located south of the former Pond D and well P-1R, located on the north side of the Muddy River.

Two potential outliers, sulfate in KMW-9 and P-13R were found in the laboratory when compared to the past. The laboratory reviewed their results and found a calculation error. Revised reports are included in the CD and reflected in the figures and tables.

A trend graph of TDS concentrations of the Former Pond D area can be found in the Graphs section of this report. Figure 9 is a contour map showing TDS concentrations from this quarter. Well P-8R exhibits the highest concentration of TDS. Concentrations have fluctuated from 80,000-160,000 since the third quarter of 2008; however the trend is relatively stable. Other wells in the area of Pond D also exhibit stable trends. Because solids were removed from 2010, it is not expected that these trends would start to increase.

KMW-9, considered to be a medium depth alluvial aquifer well, has exhibited unusually high TDS concentrations and fluctuating groundwater levels similar to the adjacent shallow wells. The well is screened from 50 to 60 feet bgs. As discussed in previous GMRs, it is possible that the bentonite seal or well casing are cracked, causing the water quality in the well to resemble the shallow groundwater quality. The camera investigation conducted in early 2012 did not identify well integrity issues. This well is planned to be abandoned and replaced with a downgradient well cluster on the adjacent BLM property to the south. NVE conducted aquifer testing of this and other nearby wells. AQTESOLV is being used to evaluate the results.

Well P-10 is located south of former Pond D and was noted as having organic material (roots) during the past two sampling events. No unusual observations were noted this quarter. This well was constructed in 1998 and screened from 4 to 14 ft bgs in sandy clay with black organics at 12 ft bgs. Because the well was pumped dry and roots were observed in the past, the well screen may be breached or the filter pack may be clogged. NVE will continue to observe the conditions at this well and may consider abandonment in the future if roots reappear in this well.

The usefulness of this well will be evaluated as part of the geologic data gaps and source area investigations.

Groundwater from P-11 and P-15AR, located west and north of former Pond D, were noted as having a yellow-orange hue or silty conditions during the last sampling event. No unusual observations were noted in these wells this quarter.

Dissolved Chlorinated Solvent Wells

Product has been noted in HM-50R and HM-48 since the third quarter of 2011 and second quarter of 2012, respectively. HM-50R was replaced in the third quarter 2011 and is adjacent to a known source of petroleum and solvents, the lube oil rack. However, free product was not previously noted in HM-50. BAI is currently hand bailing product from HM-50R and HM-48. Free product removal activities for these wells is further discussed in the Diesel Recover Discussion in this report.

HM-8 was the only well sampled in this area this quarter. Field personnel described the water sample as being silty and brown, consistent with previous quarters. No laboratory outliers were found in this well during this quarter.

WMU-12 Wells

HM-60, a newly constructed well located west of the Units 1,2,3 coal pile between Units 1 and 2, was noted as having light yellow hue and was pumped dry. Slightly silty groundwater conditions were noted during the last sampling event. Parameter concentrations in this well are similar to downgradient well HM-33, which was noted as having a lite tan hue upon sample collection.

Groundwater from HM-32R, also located west of the Units 1,2,3 coal pile, was also noted as having a slightly yellow hue last quarter; however no unusual observations were reported this quarter. No outliers were found in the laboratory data for these three well when compared to the past analytical results.

Well HM-20, located east of the Units 1,2,3 coal pile, was noted as having free product. Product has been measured in this well since 2003 and is equipped with a free product passive recovery device. Nearby well HM-24 has a sheen on the water according to field notes. This was also observed during the two previous sampling events. The sample collected was described as black and silty. Various laboratory outliers were found this quarter in HM-24. The laboratory reanalyzed the samples and verified the original results. HM-19, located just east of HM-24, was noted as having brown organic matter. NVE will continue to observe conditions at HM-20, HM-24 and HM-19.

The sample collected from HM-31R, also east of the coal pile, was noted as being grey black, consistent with the previous quarters. Nitrate and selenium were laboratory outliers this quarter and results were verified by the laboratory. This well was also pumped dry. Another well in the area, HM-28, was noted as having a light orange hue this quarter whereas slightly silty conditions were noted during previous quarters. No laboratory outliers were found this quarter in the analytical results from HM-28.

HM-54, located downgradient of the Unit 4 coal pile, was noted as having a light orange hue for the first time this quarter; however no laboratory outliers were found.

Former ASP-1 ,2, 3 Wells

As discussed earlier in this report, well IMW-15 was plugged and abandoned this quarter. Three out of the six remaining wells exhibited cloudy or silty conditions: IMW-13R, IMW-14R, and IMW-17. IMW-13R is located within the Former ASP-1, 2, 3 ponds while IMW-14R and

IMW-17 are downgradient. No laboratory outliers were found in the analytical data associated with these wells this quarter.

Diesel Recovery Discussion

As discussed in Response #1, NVE sent a letter to Ms. Alison Oakley on March 19, 2013 in response to Comment #1 describing the remediation work to date. The letter indicated that a formal Work Plan would be submitted to the NDEP to address the overall remediation system design. The Diesel Remediation System Design Work Plan was submitted to the NDEP on April 18, 2013. In summary, the Work Plan proposes upgrades to the existing diesel remediation system, which will be capable of extracting LNAPL/groundwater from the following existing extraction wells:

- HM-48 and HM-50R using float activated total fluids pumps;
- HM-46, HM-55, and HM-56 using total fluids pumps;
- HM-7, HM-38, HM-39, HM-42, HM-44, HM-45, and HM-47 using the dual phase extraction system; and
- HM-20 and HM-21 using passive recovery devices.

Additional upgrades include secondary containment, a new oil/water separator, and two 2,000-pound granular activated carbon canisters.

The table below summarizes the volume of diesel fuel removed since the remediation system was put back into operation on February 12, 2013 and the total fluids removed historically. The table does not include 250,000 gallons of diesel fuel that was recovered at the Reid Gardner Station prior to the fourth quarter 2003.

REID GARDNER DIESEL RECOVERY	February 2013 – Current	TOTALS	
	TOTAL DIESEL FUEL (GAL)	FLUID (GAL)	DIESEL (GAL)
Dual Phase Extraction	460	2,354,820	21,695
Additional Recovery (passive devices)	30	30,197	1,137
Total Recovery	490	2,385,017	22,832

Pond D/E Groundwater Recovery

During the fourth and first quarters of 2012 and 2013, respectively, 2,072 gallons of groundwater was recovered and placed into ponds. The Pond D/E recovery sump pumps were operated automatically during the referenced period. The following table summarizes the Pond D/E groundwater recovery effort.

REID GARDNER POND D/E RECOVERY SUMPS	$4^{th}/1^{st}$Qtr 2012/2013	TOTAL (Since inception)
E POND Gallons Pumped	2,072	465,030
D POND Gallons Pumped	0	2,363,859

Administrative Order on Consent (AOC) Activities

The following summary of Administrative Order on Consent (AOC) activities for the first quarter of 2013 (January - March) is provided in accordance with Section XII of the AOC that was signed by NV Energy and NDEP on February 22, 2008:

a) Actions taken:

- Attended a GoToMeeting with NDEP on January 30, 2013 to discuss the Preliminary Source Area Identification and Characterization Report (PSAICR) and prepared a table prioritizing source areas.
- Continued to maintain and update the Encyclopedia of Supporting Documentation as additional information became available.
- Continued to maintain and update the geodatabase as additional information became available.
- Continued to coordinate with laboratory and groundwater sampling consultant with respect to quarterly groundwater sampling associated with the Groundwater Monitoring Report (GMR) semi-annual monitoring.
- Submitted the Diesel Remediation System Design Work Plan to the NDEP on April 18, 2013.
- Preparation of a list of monitoring well and parameter reductions associated with the GMRs.
- Coordinated with the data validation consultant with respect to background groundwater sampling and Pond F soil sampling results.
- Prepared for and attended a quarterly AOC meeting/workshop with NDEP on March 13, 2013.
- Prepared meeting minutes following the March 13, 2013 quarterly AOC meeting/workshop.
- Continued to research prioritized geological data gaps.
- Coordinated with the data validation subcontractor for the validation of background groundwater and Pond F soil data.
- Continued preparation of a deliverable associated with groundwater monitoring and data evaluation in accordance with the Evaluation of Background Conditions Work Plan.

b) Summary of field activities for first quarter 2013 (January - March):

Soils samples underlying the former Pond F location were collected on January 22, 2013 for laboratory analysis in accordance with NDEP's January 17, 2013 approval of an email from NVE dated January 8, 2013. The results of the soil sampling will be

discussed in the Pond F Solids Removal Completion Report, which is scheduled to be submitted to NDEP for review during the second quarter of 2013.

Additional monitoring wells were installed and soil and groundwater samples were collected for laboratory analysis in accordance with the November 2012 Unit 4 Monitoring Well Installation Work Plan that was approved by the NDEP on December 26, 2012. The results of the analysis for soil samples collected are discussed in the Unit 4 Pond Monitoring Well Installation Report, submitted to the NDEP in April 2013. The results of the groundwater analysis will be discussed in the Groundwater Monitoring Report. Additionally, monitoring wells P-1R, P-9 and IMW-15 were abandoned.

On February 12, 2013, the remediation system was reactivated. BAI personnel adjusted the stingers at the extraction wells to remove only product in an effort to get free product depths below the regulatory limit of one-half inch. Additionally, free product in monitoring wells HM-50R and HM-48 has been removed by BAI using bailers since these wells are not connected to the diesel recovery system. BAI has been onsite almost daily since February 12 to adjust the system and manually remove product. BAI issued a letter to NDEP describing the work that has been completed to date, which includes the removal of approximately 490 gallons of free product since February 12.

c) Deliverables completed and submitted:

- A Pond F Soil Sampling Work Plan was submitted to NVE via email on January 8, 2013. This work plan was subsequently approved by the NDEP on January 17, 2013
- Data Validation Reports associated with 3rd quarter 2012 background groundwater sampling were submitted to NDEP on January 14, 2013. These reports were subsequently approved by NDEP on March 8, 2013.
- The Draft Background Report discussing monitoring well installation, soil sampling and aquifer testing was submitted to NDEP for review of March 28, 2013

d) Activities planned for the next quarter and schedule update:

- **Draft PSAICR** – NVE will revise the Draft PSAICR dated November 2012, based on NDEP comments, once received.
- **Encyclopedia of Supporting Documentation** – NVE will continue to maintain the Encyclopedia of Supporting Documentation as new documents become available.
- **Geological Data Gaps** – NVE will continue to research new monitoring well locations to address current data gaps. A list of prioritized geological data gaps will be provided to NDEP.
- **Groundwater Sampling Plan** – NVE will provide a summary of proposed monitoring well and parameter reductions for future GMR activities. Once this summary is approved, a revised Groundwater Sampling Plan will be submitted to NDEP for approval.
- **Groundwater Monitoring Report/Selenium Request** – NVE will submit a request to change selenium analysis method and reduce GMR reporting requirements from semi-annual to annual.
- **Meeting Minutes**: Meeting minutes from the third and fourth quarter 2012 and the first quarter 2013 AOC meetings with NDEP will be finalized based on NDEP comments, if any.
- **Quarterly Meetings** – NVE will prepare for and attend a quarterly AOC implementation meeting with NDEP on June 26, 2013. This meeting will include a Conceptual Site-Wide Model (CSM) Visualization using ArcGIS software.
- **Monthly AOC Status Update Reports** – NVE will continue to provide monthly status reports and schedules to the NDEP by e-mail.
- **Diesel Recovery System** – NVE will begin implementation of the Diesel Remediation System Design Work Plan once NDEP concurrence is received.
- **Evaluation of Background Conditions** – NVE will revise the March 2013 Background Report associated with monitoring well installation, soil sampling and aquifer testing activities based on NDEP comments, if any.

- **Data Validation** – Data Validation Reports associated with background groundwater monitoring for fourth quarter 2012 sampling and Pond F Soil Sampling will be submitted to NDEP for approval.
- **Pond F Soil Solids Removal Completion Report** – A report summarizing soils removal and soil sampling activities will be submitted to NDEP for approval.

e) Unresolved delays encountered or anticipated and efforts to mitigate them:

No unresolved delays were encountered or anticipated.

f) Modifications to plans or schedules:

Updated tentative AOC implementation schedules are uploaded to FilesAnywhere monthly.

g) Community relations activities completed the previous quarter and planned for the next quarter:

Copies of the NDEP-approved Unit 4 Monitoring Well Installation Plan and the Pond F Solids Removal Work Plan were provided to the Moapa Library and the Moapa Band of Paiutes.

Electronic copies of NDEP-approved AOC deliverables for the past two years will be provided to NDEP in April 2013 to include on their website. NVE will also continue to provide copies of NDEP-approved deliverables to the Moapa Band of Paiutes and the document repository that is maintained at the Moapa Public Library in Moapa, Nevada.

If you have any question regarding this report, please contact the undersigned at (702) 402-5958.

Sincerely,

Jason Reed
Staff Environmental Engineer
CEM #1978, Expiration 5/18/14

cc: Tony Garcia – NV Energy
John Kivett – Arcadis
Brad Cross – Arcadis
Darren Daboda – Moapa Band of Paiutes
NVE Coordinator for the Corrective Actions File, NDEP-Las Vegas Office

Attachments:

Jurat Letters
Figure 1A – Site Monitoring Locations
Figure 1B – Diesel Plume Area Monitoring Locations
Figure 2A - Shallow Groundwater Contour and Site Location Map (11 X 17")
Figure 2B - Shallow Groundwater Contour Facility Map (11 X 17")
Figure 3 - Dissolved Arsenic Contour Map (11 X 17")
Figure 4 - Dissolved Magnesium Contour Map (11 X 17")
Figure 5 - Dissolved Manganese Contour Map (11 X 17")
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Table 4 – Groundwater Elevations First Semi-Annual 2013
Graphs – Hogan Wash and Former Pond D Areas

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Figure 3 - Dissolved Arsenic Contour Map (11 X 17")
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Environmental Consultant Jurat Letters
Field Log Sheets Q1 2013
2013 Sampling Record
Excel Monitoring and Sampling Database
Laboratory Analysis Data - Example File = V13B081 Unit 4 Pond Wells.pdf

JURATS

Certified Environmental Manager Certification

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances.

Services Provided:	Preparation of the Third Quarter 2012 Quarterly Groundwater Monitoring Report for the Reid Gardner Station Facility
Name:	Jason Reed
Title:	Staff Environmental Engineer
Company:	NV Energy
CEM Certification Number:	1978
CEM Expiration Date:	5/18/2014
Signature:	
Date:	5/14/13

OGI ENVIRONMENTAL LLC

March 19, 2013

Mr. Jason Reed
NV Energy
6226 W. Sahara Avenue
Las Vegas, NV 89146

Subject: First Quarter 2013 Groundwater, Pond, and River Sampling
NV Energy – Reid Gardner Station
Moapa, Nevada

Dear Jason:

In accordance with Purchase Order No. 0001024889, dated December 22, 2010, modified December 19, 2012 (Modification 2), OGI Environmental, LLC (OGI) has completed groundwater, river and pond sampling at the above referenced site during the first quarter, 2013. Water samples were collected from 90 monitoring wells (including Unit 4 Dewatering Well), six pond locations (all leachate samples), one EFPS location, five river locations and one spring location and were submitted to Veritas Laboratories, a Nevada-certified laboratory, for testing. In addition, water level measurements were measured and recorded for 1 well. Free-product measurements were also collected by OGI on February 28, 2013 for wells associated with the Diesel Recovery System (27 wells were gauged). OGI collected 17 quality control samples, including seven duplicates (wells LMW-5R, LMW-9, KMW-1M, P-8R, HM-31R, pond sample location E-2 and river sample location MR-1), five equipment blanks and five field blanks.

Should you have any questions regarding the work completed by OGI, please do not hesitate to contact the undersigned at (702) 804-5545.

Sincerely,

OGI ENVIRONMENTAL, LLC

Robert N. Thompson, P.G, CEM
Managing Principal
Nevada CEM No. EM-1246 (exp. 1-5-13)

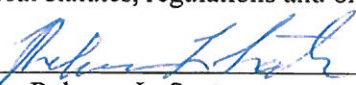
I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations, and ordinances.

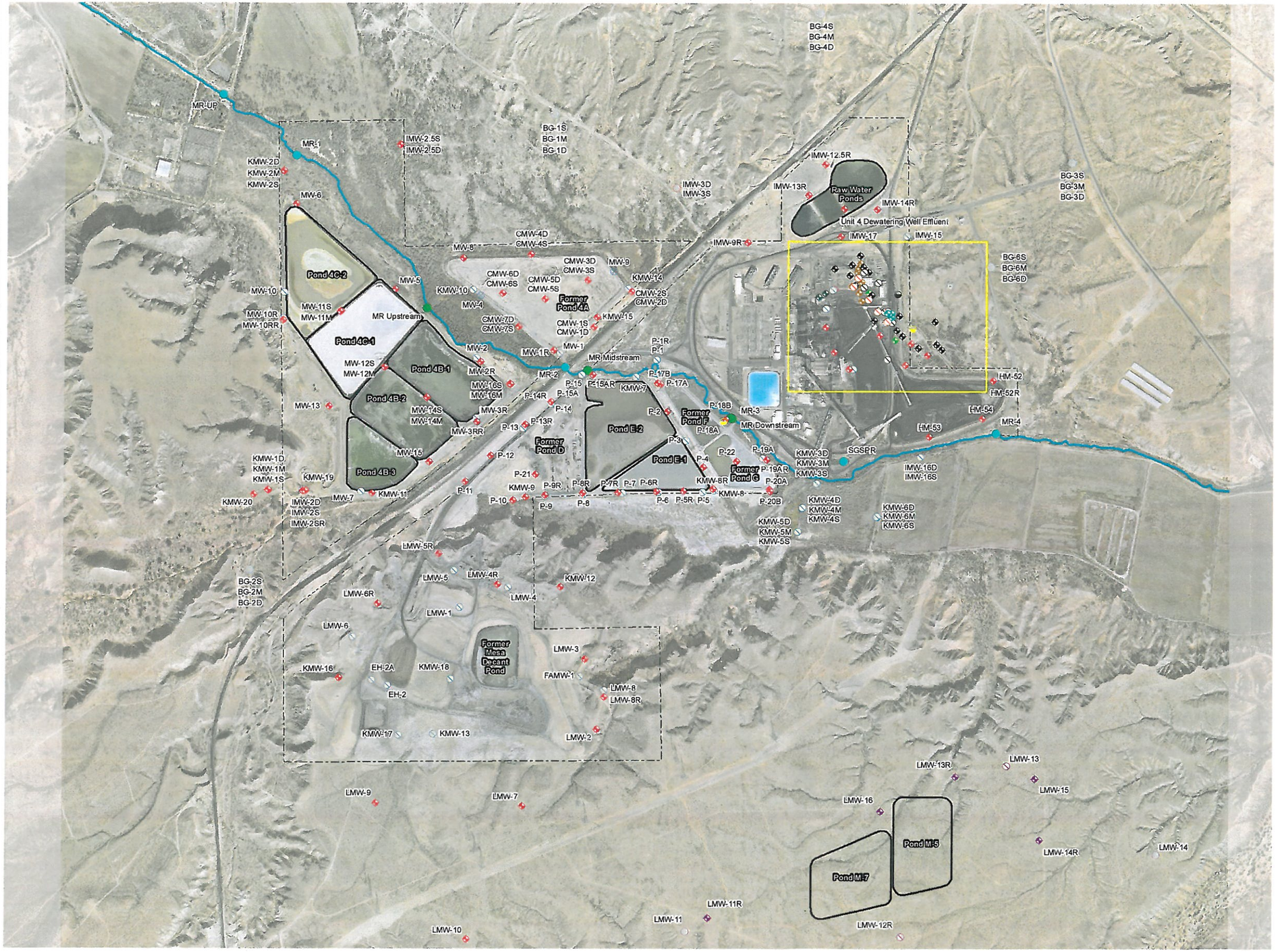
8820 West Russell Road, Suite 140, Las Vegas, Nevada 89148
OFF - (702)804-5545; FAX - (702) 804-4649

Certified Environmental Manager (CEM) Certification

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances.

Signature: 
Name: Rebecca L. Svatos
Title: Senior Technical Advisor
Company: Stanley Consultants
Date: 5/2/13
EM Certificate Number EM-1931
EM Expiration Date: 9/30/2013

FIGURES



Legend

- Property Boundary
- Muddy River
- Pond Outline
- Figure 1B Map Area

GMR Monitoring Locations
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed
- Existing - Not Sampled

Surface Water Monitoring Locations
- Surface Water Sampling
- Surface Water Elevation

Background Wells
- Existing - Not Sampled

Mesa Pond Wells
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed
- Existing - Not Sampled

Former Remediation Trench
- Abandoned / Destroyed

Dewatering
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

Free Product Gauging
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

Hand Bail
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

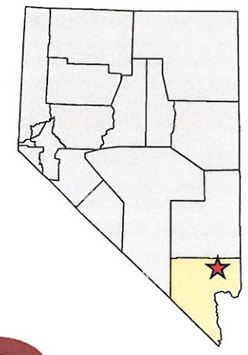
Passive Recovery
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

Vapor Extraction
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

N

1,100 550 0 1,100 2,200 Feet

Notes:
1. Primary aerial flown January 2, 2009 and updated September 2010
2. Secondary aerial imagery provided by USDA-FSA Aerial Photography Field Office; published 2/22/2011; photographs taken late Spring 2010
3. Sampling locations current as of 1st Quarter 2013
4. MR Downstream gauging location is either the lower or upper culvert
5. Information for wells located within the yellow inset is available on Figure 1B
6. This figure shows all monitoring locations at Reid Gardner Station, not just those monitored this period



Stanley Consultants INC.

May 2013

MONITORING LOCATIONS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 1A

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/5/13	CC	AE	TK

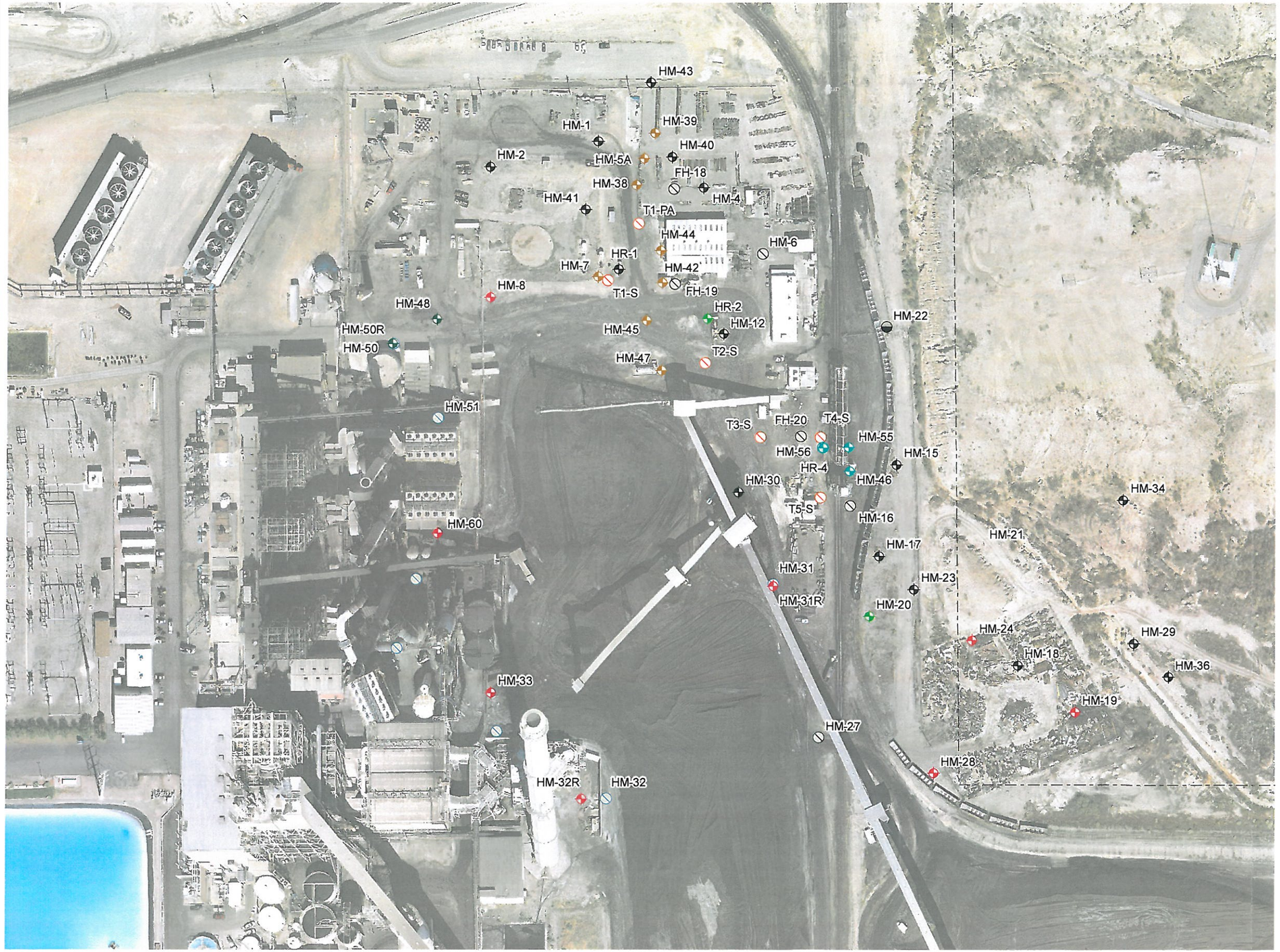
0 1in.
At full size
1 inch = 1,100 feet

NVEnergy

20618.07

REV. 0

W:\x%11Projects_F\20618_03_NVE_RGS_AOC_Imp09\Active\14-GIS\GIS\Working\Data\Mxd\quarterly\reports\2013Q1\Fig1A_2013Q1_MonitoringLocations.mxd © STANLEY CONSULTANTS



Legend

- Property Boundary

GMR Monitoring Locations
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

Dewatering
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

Former Remediation Trench
- Abandoned / Destroyed

Free Product Gauging
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

Hand Bail
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

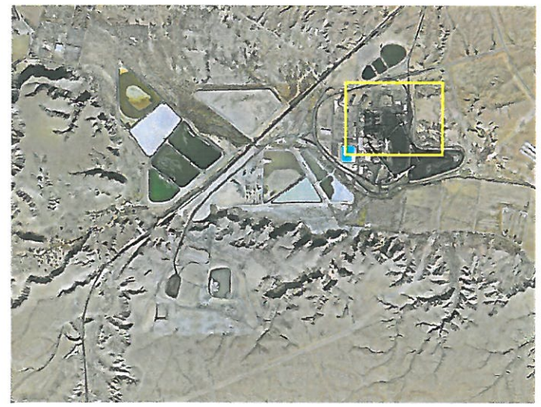
Passive Recovery
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

Vapor Extraction
- Sampled or Gauged
- Damaged
- Dry
- Abandoned / Destroyed

N

175 87.5 0 175 350 Feet

Notes:
1. Aerial flown January 2, 2009 and updated September 2010
2. Sampling locations current as of 1st Quarter 2013
3. This figure shows all monitoring locations at Reid Gardner Station, not just those monitored this period



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STATION AREA
MONITORING LOCATIONS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 1B

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/8/13	CC	AE	TK

0 1 in.
At full size
1 inch = 175 feet

NVEnergy

20618.07

REV.
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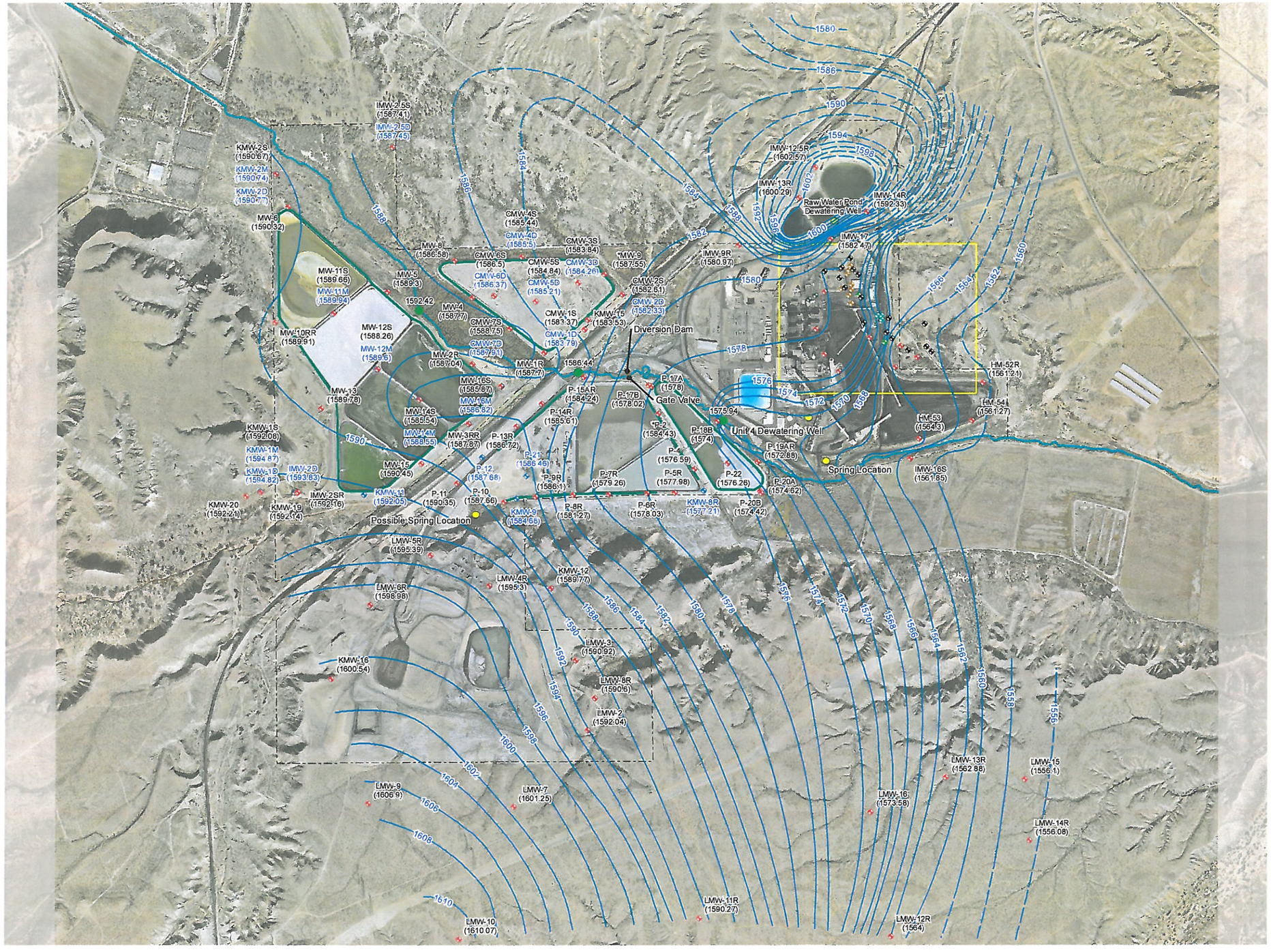


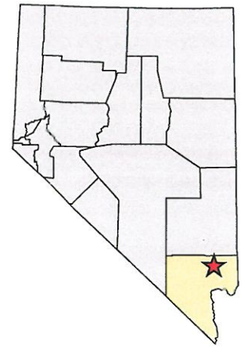
Legend

Monitoring Wells (2013 Q1)

- Deep or Medium
- Shallow
- Dewatering
- Free Product Gauging
- Hand Bail
- Passive Recovery
- Vapor Extraction
- Dewatering Locations / Water Sources
- Surface Water Elevation
- Groundwater Elevation Contour (ft)
- Groundwater Elevation Contour (Inferred) (ft)
- Pond Slurry Walls
- Muddy River
- Property Boundary
- Figure 2B Map Area

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

Notes:
1. Aerial flown January 2, 2009 by AeroTech Mapping; updated September 2010
2. Information for wells located within the yellow inset is available on Figure 2B
3. Shallow, medium, and deep well classifications are subject to change
4. Elevations at deep and medium wells are not contoured
5. *P-9R, P-2, MW-9 not considered for contouring
6. Only wells gauged this quarter are shown in figure
7. Inferred contours around raw water ponds based on 2nd Semi-Annual GMR



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May 2013

SHALLOW GROUNDWATER ELEVATION CONTOUR MAP
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 2A

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/8/13	CC	JO	TK/AE

0 1 in.
At full size
1 inch = 1,100 feet

NVEnergy

20618.07

REV. 0

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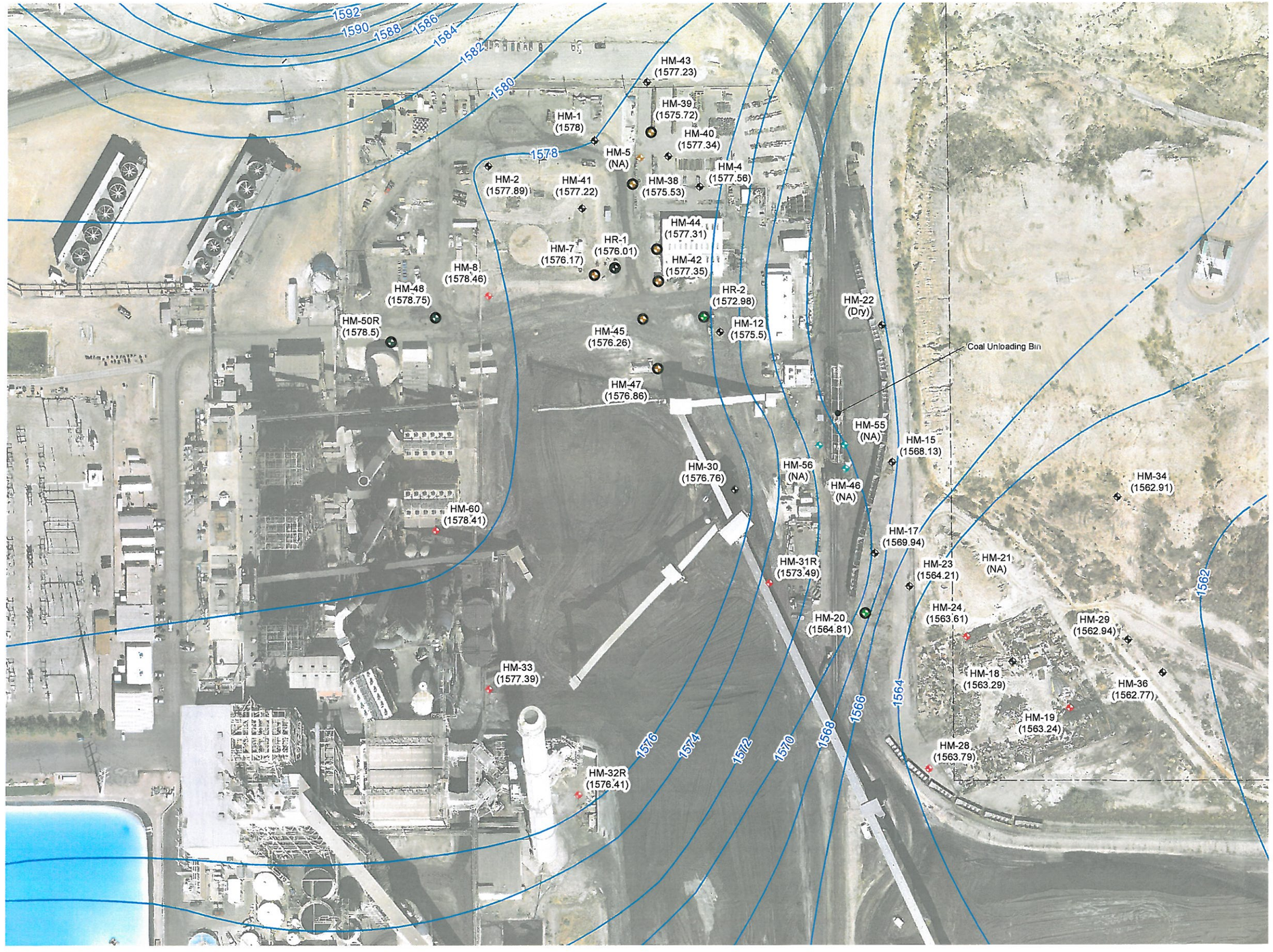


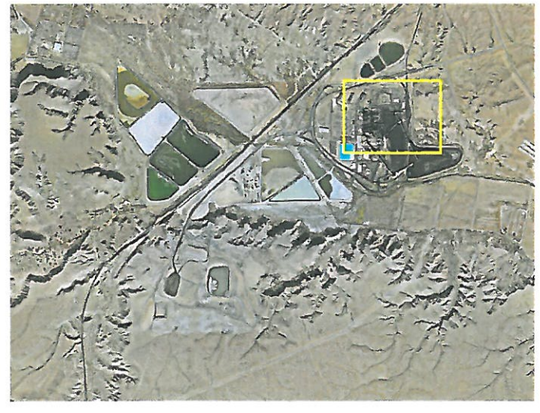
Legend

Diesel Area Well Types (Active)

- Dewatering
- Free Product Gauging
- Hand Bail
- Passive Recovery
- Vapor Extraction
- Monitoring Wells
- Diesel Area Well with Product
- Groundwater Elevation Contour (ft)
- Groundwater Elevation Contour (Inferred) (ft)
- Property Boundary

175 87.5 0 175 350 Feet

Notes:
1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
2. Monitoring wells with free product were not used in contouring
3. NA=Not accessible



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STATION AREA
SHALLOW GROUNDWATER ELEVATION
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 2B

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/8/13	CC	JO	TK/AE

0 1 in.
At full size
1 inch = 175 feet

NVEnergy

20618.07

REV. 0

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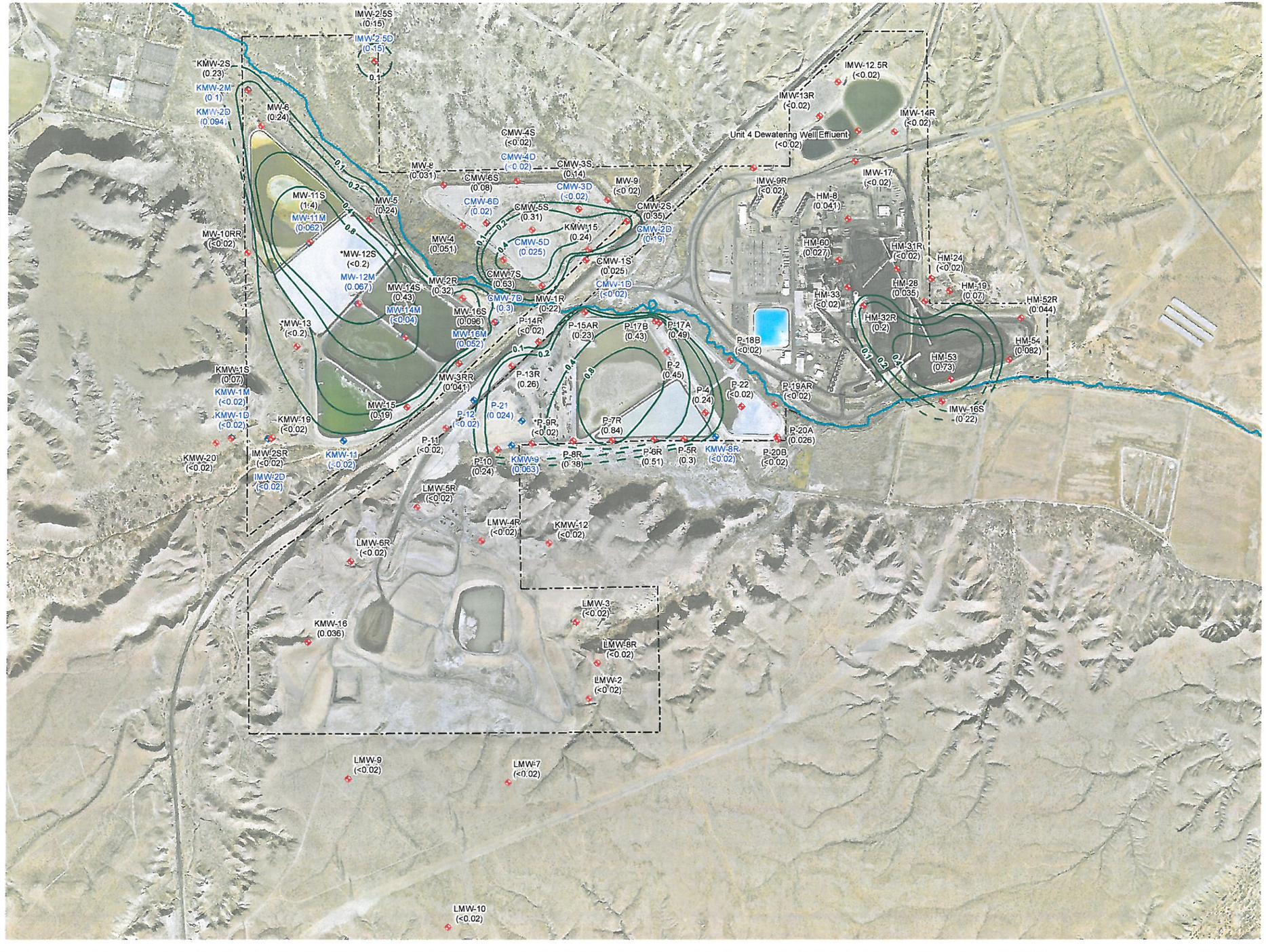


Legend

Monitoring Wells (2013 Q1)
- Deep or Medium
- Shallow

Arsenic Concentration Contour (mg/L)

Arsenic Concentration Contour (mg/L) (Inferred)

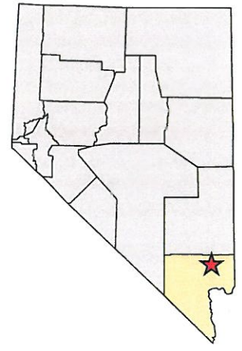
Muddy River

Property Boundary

N

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

Notes:
1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
3. Shallow, medium, and deep well classifications are subject to change
4. Concentrations at deep and medium wells are not contoured
5. *MW-12S, MW-13 not considered for contouring due to high detection thresholds; *P-9R data not considered for contouring



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DISSOLVED ARSENIC CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 3

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/10/13	CC	JO	TK/AE

0 1 in.
At full size
1 inch = 1,000 feet

NVEnergy

20618.07

REV. 0

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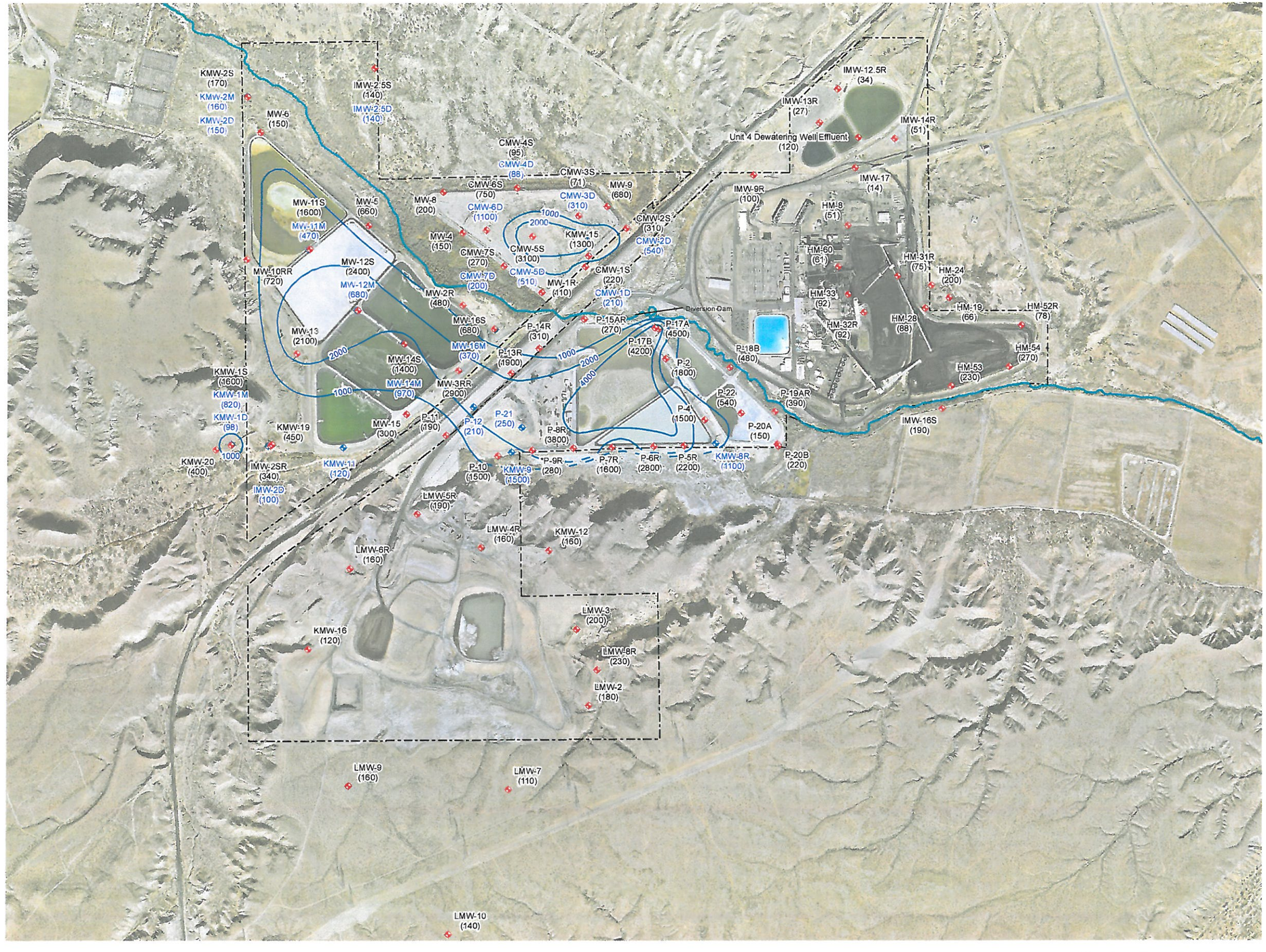


Legend

Monitoring Wells (2013 Q1)
- Deep or Medium
- Shallow

Magnesium Concentration Contour (mg/L)

Magnesium Concentration Contour (mg/L) (Inferred)

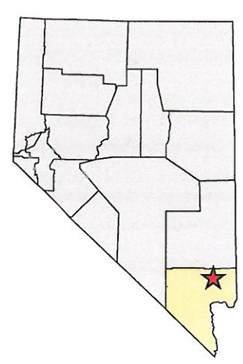
Muddy River

Property Boundary

N

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

Notes:
1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
3. Shallow, medium, and deep well classifications are subject to change
4. Concentrations at deep and medium wells are not contoured
5. *P-9R data not considered for contouring



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DISSOLVED MAGNESIUM CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 4

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/12/13	CC	JO	TK/AE

0 1in.
At full size
1 inch = 1,000 feet

NVEnergy™

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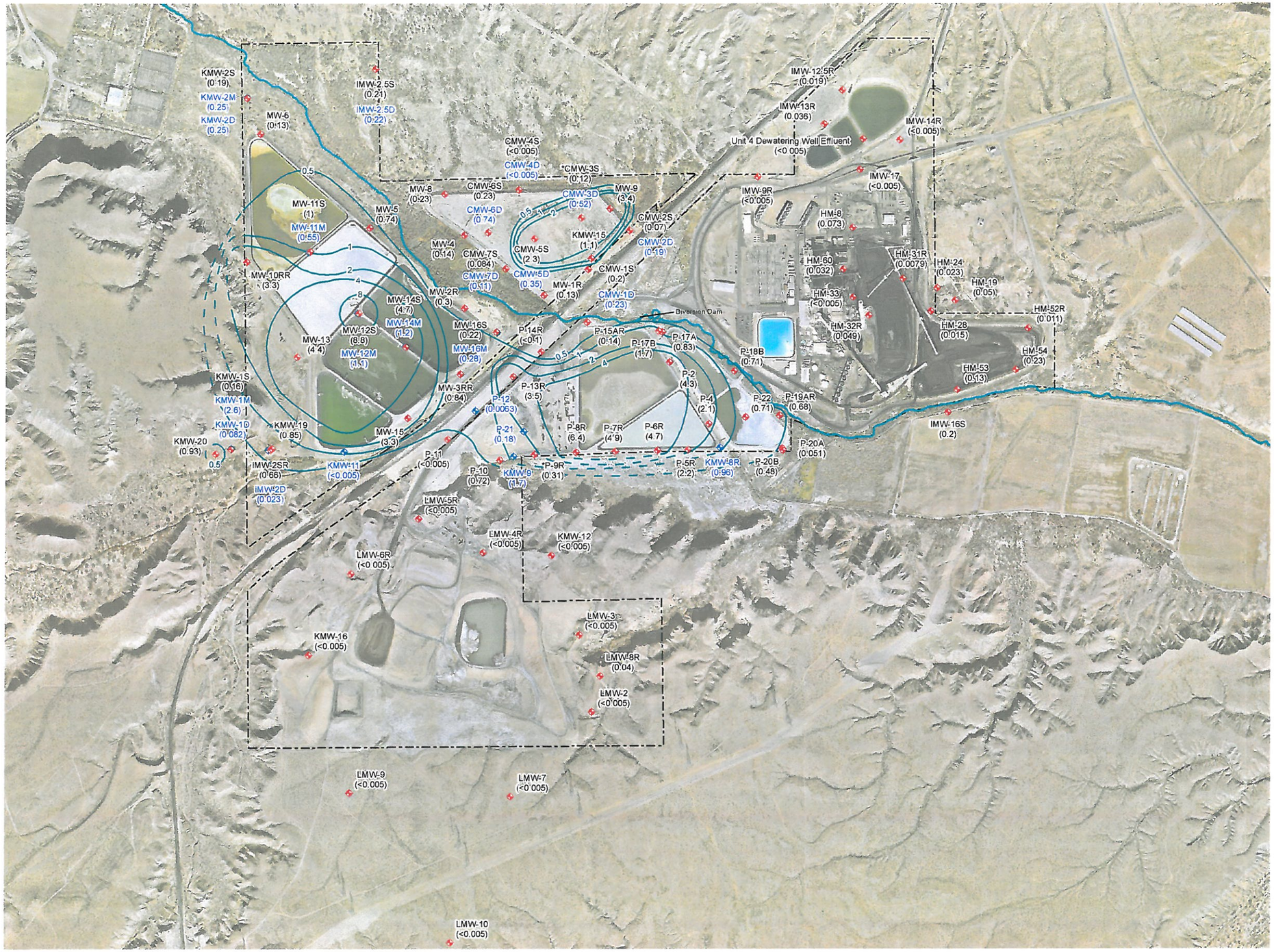


Legend

Monitoring Wells (2013 Q1)
- Deep or Medium
- Shallow

Manganese Concentration Contour (mg/L)

Manganese Concentration Contour (mg/L) (Inferred)

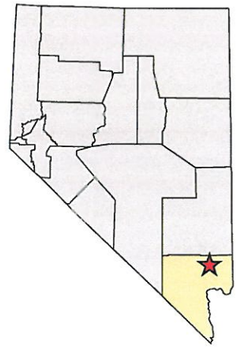
Muddy River

Property Boundary

N

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

Notes:
1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
3. Shallow, medium, and deep well classifications are subject to change
4. Concentrations at deep and medium wells are not contoured
5. *P-9R, CMW-3S data not considered for contouring



Stanley Consultants INC.

May 2013

DISSOLVED MANGANESE CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 5

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/12/13	CC	JO	TK/AE

0 1 in.
At full size
1 inch = 1,000 feet

NVEnergy

20618.07

REV. 0

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Legend

Monitoring Wells (2013 Q1)

- Deep or Medium
- Shallow

Selenium Concentration Contour (mg/L)

Selenium Concentration Contour (mg/L) (Inferred)

Muddy River

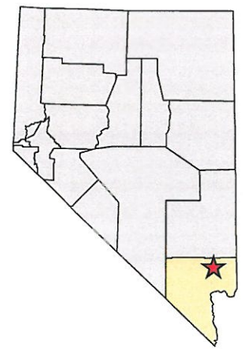
Property Boundary

N

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

Notes:

1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
3. Shallow, medium, and deep well classifications are subject to change
4. Concentrations in deep and medium wells not contoured
5. *MW-3RR, MW-11S, MW-12S, MW-13, MW-14S not considered for contouring due to high detection thresholds



Stanley Consultants INC.

May 2013

DISSOLVED SELENIUM CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 6

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/12/13	CC	JO	TK/AE

0 1 in.
At full size
1 inch = 1,000 feet

NVEnergy

20618.07

REV. 0

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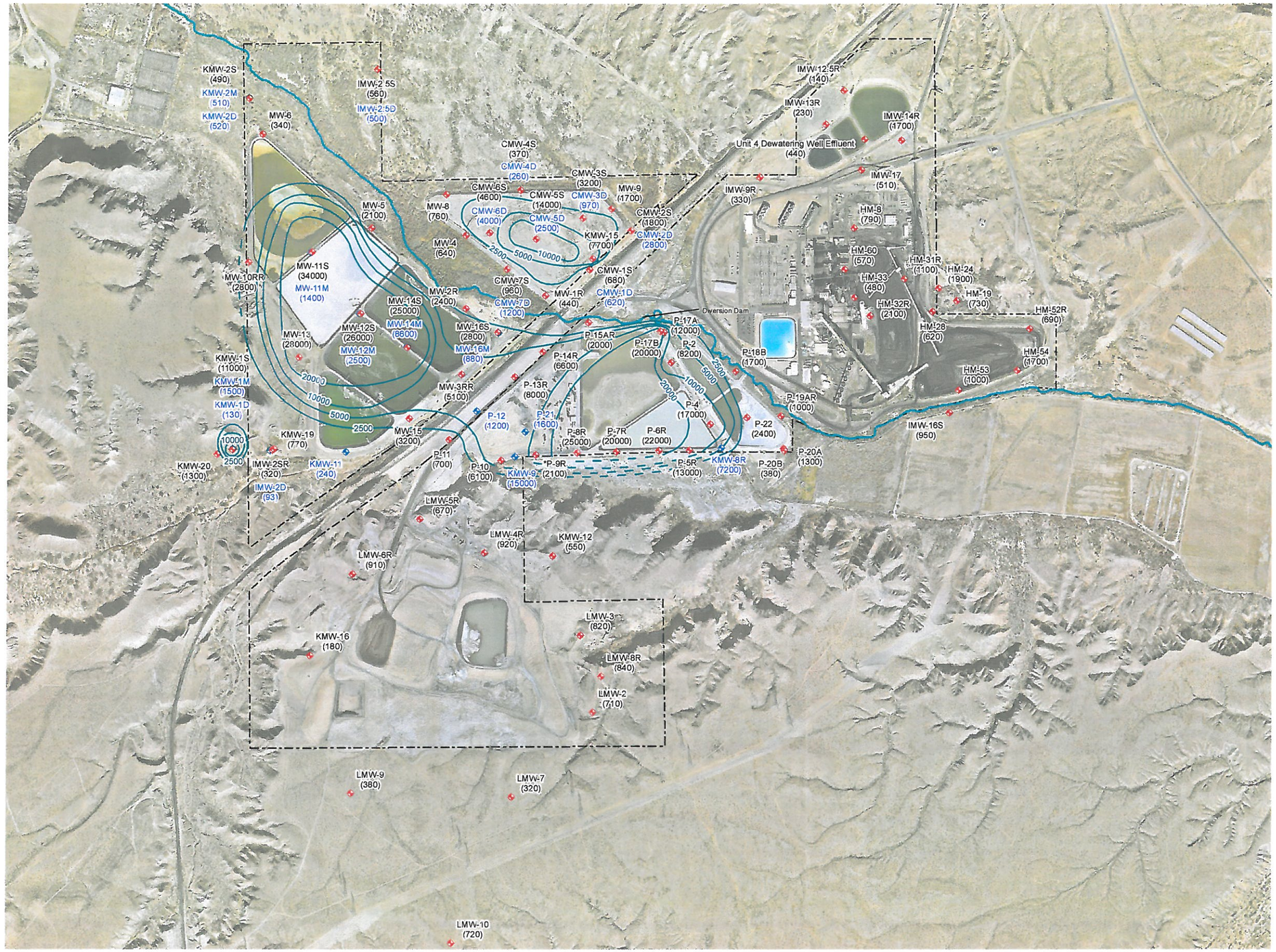


Legend

Monitoring Wells (2013 Q1)
- Deep or Medium
- Shallow

Sodium Concentration Contour (mg/L)

Sodium Concentration Contour (mg/L) (Inferred)

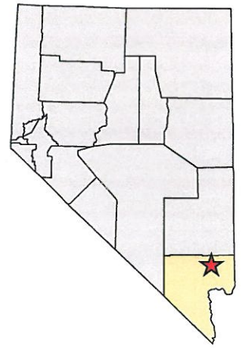
Muddy River

Property Boundary

N

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

Notes:
1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
3. Shallow, medium, and deep well classifications are subject to change
4. Concentrations in deep and medium wells not contoured
5. *P-9R data not considered for contouring



Stanley Consultants INC.

May 2013

DISSOLVED SODIUM CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 7

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/11/13	CC	JO	TK/AE

0 1 in.
At full size
1 inch = 1,000 feet

NVEnergy

20618.07

REV. 0

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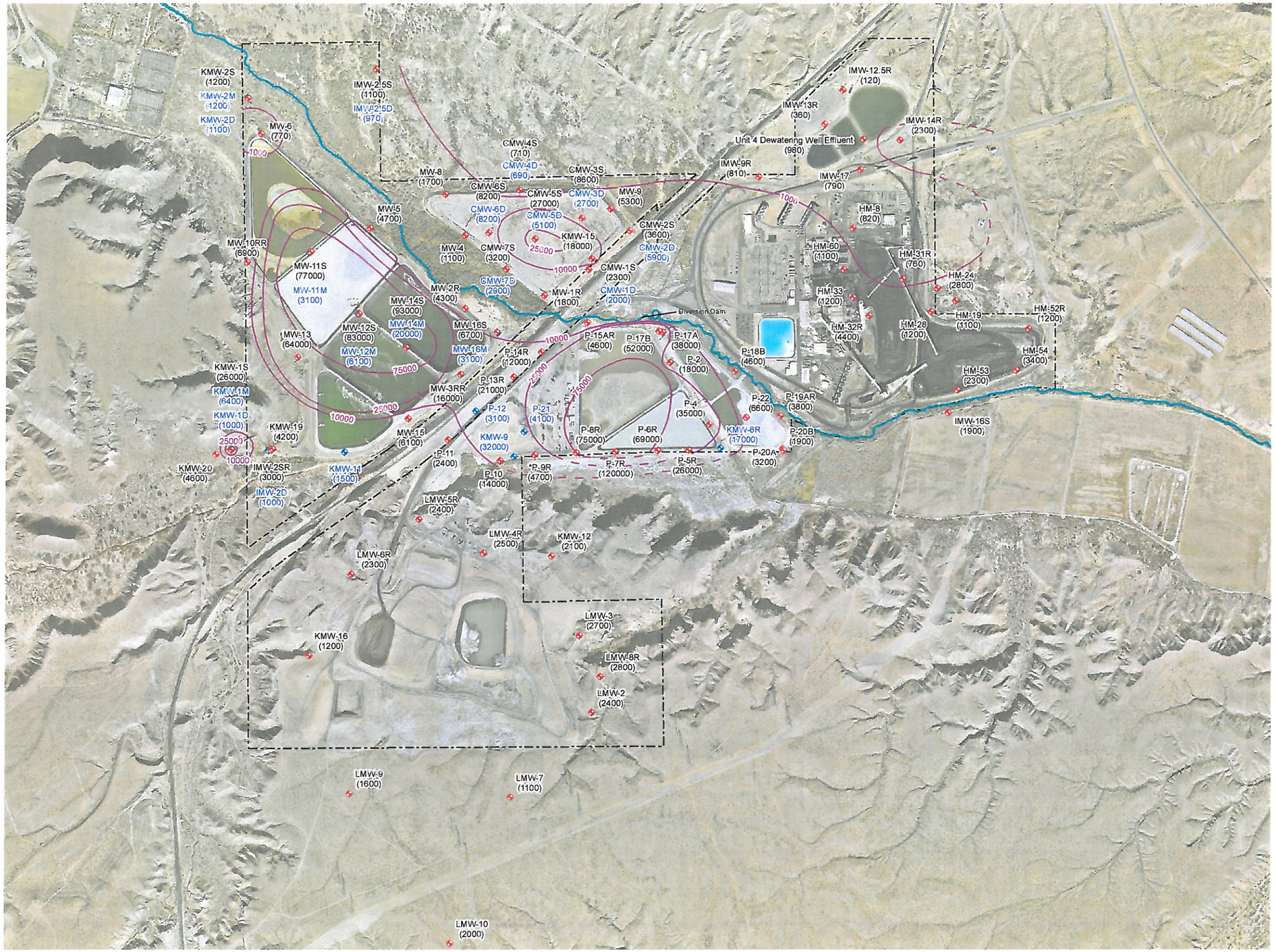

Legend

Monitoring Wells (2013 Q1)
- Deep or Medium
- Shallow

Sulfate Concentration Contour (mg/L)

Sulfate Concentration Contour (mg/L) (Inferred)

Muddy River

Property Boundary

N

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

Notes:
1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
3. Shallow, medium, and deep well classifications are subject to change
4. Concentrations of deep and medium wells not contoured
5. *P-9R, P-13R data not considered for contouring

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May 2013

DISSOLVED SULFATE CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 8

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/11/13	CC	JO	TK/AE

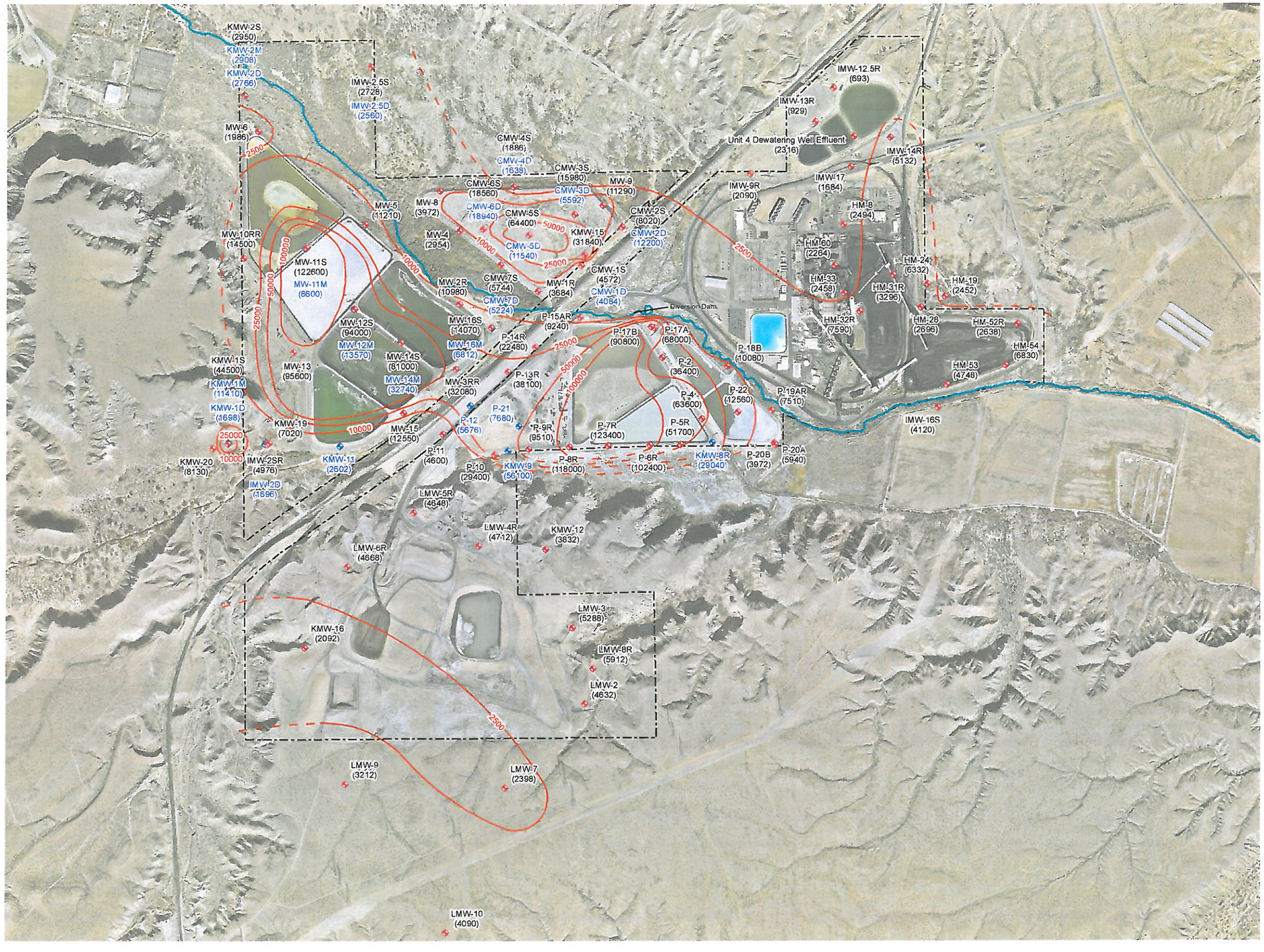
0 1in.
At full size
1 inch = 1,000 feet

NVEnergy

20618.07

REV. 0

\\lov-fs1\Projects_R\20618_03_NVE_RGS_AOC_Imp09\Active\14-GIS\GIS\Working Data\mxd\quarterly\reports\2013Q1\Fig8_2013Q1_Sulfate.mxd © STANLEY CONSULTANTS



Legend

Monitoring Wells (2013 Q1)

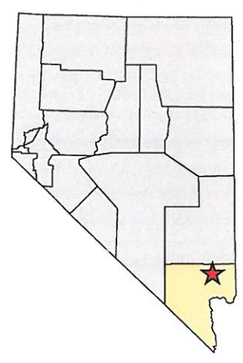
- Deep or Medium
- Shallow
- Muddy River
- Property Boundary
- TDS Concentration Contour (mg/L)
- TDS Concentration Contour (mg/L) (Inferred)

N

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

Notes:

1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
3. Shallow, medium, and deep well classifications are subject to change
4. Concentrations of deep and medium wells not contoured
5. *P-9R not considered for contouring



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TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION - SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 9

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	4/10/13	CC	JO	TK/AE

0 1in.
At full size
1 inch = 1,000 feet

NVEnergy

20618.07

REV. 0

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Legend

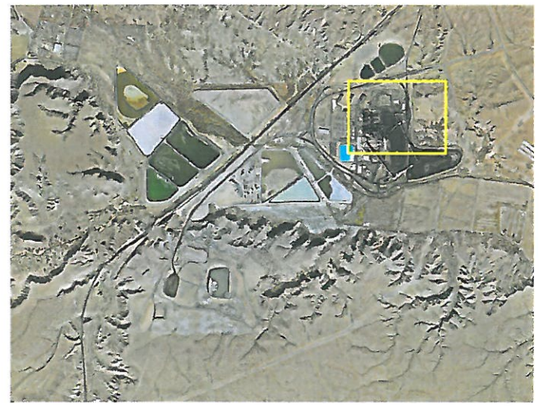
Diesel Area Well Types (Active)

- Dewatering
- Free Product Gauging
- Hand Bail
- Passive Recovery
- Vapor Extraction
- Diesel Area Well with Product
- Product Thickness Contour (ft)
- Property Boundary

N

175 87.5 0 175 350 Feet

Notes:
1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
2. Wells HR-4, T1-PA, T1-S, T2-S, T3-S, T4-S, T5-S were not gauged (too many hoses)
3. All wells were gauged on 2/28/2013, with the exception of the following, which were gauged on 5/3/2013: HM-5A, HM-38, HM-39, HM-42, HM-44, HM-45, HM-47, HM-48, HM-50R



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May 2013

PRODUCT THICKNESS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 10

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	5/10/13	CC	JO	TK/AE

0 1 in.
At full size
1 inch = 175 feet

NVEnergy

20618.07

REV. 0

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TABLES

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Statiion

	LMW-2	LMW-3	LMW-4R	LMW-5R	LMW-5R Duplicate	Mesa Wells LMW-6R	LMW-7	LMW-8R	LMW-9	LMW-9 Duplicate	LMW-10	KMW-12	KMW-16
	2/27/2013	2/27/2013	2/27/2013	2/27/2013	2/27/2013	2/26/2013	2/26/2013	2/27/2013	2/26/2013	2/26/2013	2/26/2013	2/27/2013	2/26/2013
ParameterName	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry													
ph (field)	7.38	7.24	7.46	7.37	NA	7.36	7.38	7.16	7.44	NA	7.45	7.42	7.68
General Chemistry (µmhos/cm)													
Specific Conductance (field)	5,540	6,260	5,950	5,580	NA	6,090	3,280	6,960	4,000	NA	5,080	4,720	2,600
Specific Conductance	5,530	6,250	5,870	5,500	5,490	5,830	3,110	6,940	3,870	3,890	5,070	4,650	2,510
General Chemistry (mg/L)													
Chloride	500	590	530	450	450	570	260	830	320	330	450	400	120
Nitrogen, Nitrate(As N)	1.7	2.2	5.1	4.40	4.4	2.3	4.9	< 0.1	4.3	4.2	8.4	3.9	1.4
Sulfate	2,400	2,700	2,500	2,400	2,300	2,300	1,100	2,800	1,600	1,600	2,000	2,100	1,200
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfite	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Suspended Solids (residue,non-filterable)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids(residue, filterable)	4,632	5,288	4,712	4,648	4,456	4,668	2,398	5,912	3,212	3,276	4,090	3,832	2,092
Metals (mg/L)													
Arsenic, Dissolved	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.036
Beryllium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Boron, Dissolved	5.8	7.0	7.3	6.6	6.7	8.5	2.5	3.9	2.2	2.3	8.4	4.6	1.1
Cadmium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Calcium, Dissolved	410	440	350	400	400	350	230	600	340	340	320	360	230
Chromium, Dissolved	< 0.005	0.009	0.016	0.017	0.017	0.0120	0.013	< 0.005	0.110	0.110	< 0.005	0.017	0.04
Magnesium, Dissolved	180	200	160	190	190	160	110	230	160	160	140	160	120
Manganese, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Molybdenum, Dissolved	0.069	0.043	0.08	0.04	0.044	0.060	0.020	0.056	0.180	0.180	0.100	0.045	0.18
Nickel, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0094	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Potassium, Dissolved	65	55	62	71	72	46	58	64	42	43	75	56	28
Selenium, Dissolved	< 0.02	0.024	0.032	0.023	0.026	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.029	0.024	< 0.02
Sodium, Dissolved	710	820	920	670	680	910	320	840	380	380	720	550	180
Titanium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0036

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Unit 4 Pond Wells

	IMW-2D 2/27/2013	IMW-2SR 2/27/2013	KMW-1D 2/27/2013	KMW-1M 2/27/2013	KMW-1M Duplicate 2/27/2013	KMW-1S 2/27/2013	KMW-19 2/27/2013	KMW-20 2/27/2013	KMW-2D 2/27/2013	KMW-2M 2/27/2013
ParameterName	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry										
ph (field)	7.26	7.11	7.28	7.2	NA	7.31	7.08	7.23	7.17	7.14
General Chemistry (µmhos/cm)										
Specific Conductance	1,936	5,150	2,100	11,110	11,290	39,200	6,580	8,360	3,660	3,760
General Chemistry (mg/L)										
Chloride	39	370	39	720	730	3,000	240	330	360	380
Nitrogen, Nitrate(As N)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Sulfate	1,000	3,000	1,000	6,400	6,300	26,000	4,200	4,600	1,100	1,200
Sulfide	< 0.05	NA	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	NA	NA
Sulfite	< 2	NA	< 2	< 2	< 2	< 2	< 2	< 2	NA	NA
Suspended Solids (residue,non-filterable)	146	NA	36	8,920	9,010	2,743	1,596	9,780	NA	NA
Total Dissolved Solids(residue, filterable)	1,696	4,976	1,698	11,410	11,520	44,500	7,020	8,130	2,766	2,908
Total Organic Carbon	< 1	NA	< 1	2.1	2.2	5.9	1.1	< 1	NA	NA
General Chemistry (NTU)										
Turbidity	161	NA	10.6	1210	748	1050	681	6720	NA	NA
Metals (mg/L)										
Arsenic, Dissolved	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.070	< 0.02	< 0.02	0.094	0.10
Beryllium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.009	< 0.003	< 0.003	< 0.003	< 0.003
Boron, Dissolved	0.79	1.7	0.81	8.2	8.3	60	3.7	6.8	1.3	1.2
Cadmium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.009	< 0.003	< 0.003	< 0.003	< 0.003
Calcium, Dissolved	210	520	170	540	540	450	490	460	130	150
Chromium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride, Dissolved	2.2	NA	1.9	3.5	5.6	0.76	5.7	6.4	NA	NA
Magnesium, Dissolved	100	340	98	820	830	1600	450	400	150	160
Manganese, Dissolved	0.023	0.66	0.082	2.6	2.4	0.16	0.85	0.93	0.25	0.25
Molybdenum, Dissolved	0.18	0.14	0.19	1.2	1.2	18	1.2	1.5	0.032	0.029
Nickel, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005	< 0.005	< 0.005	< 0.005
Potassium, Dissolved	22	49	30	130	130	670	54	120	33	43
Selenium, Dissolved	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02
Sodium, Dissolved	93	320	130	1,500	1,600	11,000	770	1,300	520	510
Strontium, Dissolved	8.2	NA	6.0	13	13	10	9.6	10	NA	NA
Titanium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.009	0.0056	< 0.003	< 0.003	< 0.003
Zinc, Dissolved	< 0.005	NA	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005	< 0.005	NA	NA

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Unit 4 Pond Wells

KMW-2S 2/27/2013	MW-10RR 2/27/2013	MW-13 3/26/2013	MW-11M 3/26/2013	MW-11S 3/26/2013	MW-12M 3/26/2013	MW-12S 3/26/2013	MW-14M 3/26/2013	MW-14S 3/26/2013	MW-15 3/26/2013	MW-15 Duplicate 3/26/2013	MW-16M 3/26/2013	MW-16S 3/26/2013	MW-2R 2/26/2013
Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
7.19	7.03	7.14	5.18	7.36	7.23	7.48	7.6	7.43	7.21	NA	7.53	7.44	6.75
3,720	15,490	68,700	10,370	88,300	14,390	94,900	30,300	94,500	14,250	14,110	7,660	14,200	12,800
390	2,300	2,400	2,100	16,000	2,100	12,000	2,000	9,600	1,700	1,700	1,000	2,100	2,000
< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,200	6,900	64,000	3,100	77,000	6,100	83,000	20,000	93,000	6,100	6,300	3,100	6,700	4,300
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	305
2,950	14,500	95,600	8,600	122,600	13,570	94,000	32,740	81,000	12,550	12,410	6,812	14,070	10,980
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.5
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	459
0.23	< 0.02	< 0.2	0.062	1.4	0.067	< 0.2	< 0.04	0.43	0.19	0.17	0.052	0.096	0.32
< 0.003	< 0.003	< 0.009	< 0.003	< 0.015	< 0.003	< 0.009	< 0.003	< 0.009	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
1.1	6.1	40	1.9	65	3.2	140	17	180	15	16	4.2	12	4.3
< 0.003	< 0.003	< 0.009	< 0.003	< 0.015	< 0.003	< 0.009	< 0.003	< 0.009	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
130	480	510	570	540	520	590	420	640	480	480	590	520	410
< 0.005	< 0.005	< 0.015	0.0093	< 0.025	< 0.005	< 0.015	< 0.005	< 0.015	< 0.005	< 0.005	0.011	< 0.005	< 0.005
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.1
170	720	2100	470	1600	680	2400	970	1400	300	300	370	680	480
0.19	3.3	4.4	0.55	1.0	1.1	8.8	1.2	4.7	3.3	3.3	0.28	0.22	0.30
0.024	0.29	0.14	0.060	0.68	0.45	1.8	0.26	1.8	0.18	0.18	0.21	0.48	0.072
< 0.005	0.0062	0.052	< 0.005	0.39	0.016	0.29	0.041	< 0.5	0.014	0.013	0.019	0.011	0.0096
48	150	410	95	1,100	100	1,000	150	1,100	100	100	93	150	100
< 0.02	< 0.02	< 0.2	< 0.02	< 0.2	< 0.1	< 0.2	< 0.04	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
490	2,800	28,000	1,400	34,000	2,500	26,000	8,600	25,000	3,200	3,200	880	2,800	2,400
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12
< 0.005	< 0.005	< 0.015	< 0.005	< 0.025	< 0.005	< 0.015	< 0.005	< 0.015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
< 0.003	< 0.003	< 0.009	0.0034	< 0.015	< 0.003	< 0.009	< 0.003	< 0.009	< 0.003	< 0.003	< 0.003	0.014	< 0.003
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.005

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Unit 4 Pond Wells

MW-3RR 2/26/2013	MW-5 2/26/2013	MW-6 2/26/2013	CMW-1D 2/27/2013	CMW-1S 2/27/2013	CMW-2D 2/27/2013	CMW-2S 2/27/2013	CMW-3D 2/27/2013	CMW-3S 2/27/2013	CMW-4D 2/27/2013	CMW-4S 2/27/2013	CMW-5D 2/27/2013	CMW-5S 2/27/2013	CMW-6D 2/27/2013	CMW-6S 2/27/2013
Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
7.17	7.03	7.28	7.2	7.34	7.0	7.22	7.1	7.75	7.57	7.42	7.2	6.78	6.91	7.0
28,700	11,990	2,810	4,960	5,370	13,270	9,290	6,640	17,380	2,160	2,620	12,540	52,300	19,700	19,460
3,900	1,500	260	470	480	1,300	950	680	1,100	200	250	1,500	8,200	3,100	2,600
< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
16,000	4,700	770	2,000	2,300	5,900	3,600	2,700	8,600	690	710	5,100	27,000	8,200	8,200
< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
< 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
236	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
32,080	11,210	1,986	4,084	4,572	12,200	8,020	5,592	15,980	1,638	1,886	11,540	64,400	18,940	18,560
15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
193	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0.041	0.24	0.24	< 0.02	0.025	0.19	0.35	< 0.02	0.14	< 0.02	< 0.02	0.025	0.31	0.020	0.080
< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.012	< 0.003	< 0.003
30	3.1	1.0	2.0	2.0	10	6.6	2.6	59	0.86	0.90	9.8	30	2.9	17
< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.012	< 0.003	< 0.003
510	410	94	290	390	350	290	320	220	86	81	350	520	530	400
< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005
16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2900	660	150	210	220	540	310	310	71	88	95	510	3100	1100	750
0.84	0.74	0.13	0.23	0.20	0.19	0.070	0.52	0.12	< 0.005	< 0.005	0.35	2.3	0.74	0.23
0.81	0.024	0.027	0.057	0.058	0.094	0.075	0.053	0.50	0.034	0.038	0.066	0.31	0.14	0.21
0.0079	0.075	< 0.005	< 0.005	< 0.005	0.026	0.0096	< 0.005	0.052	< 0.005	< 0.005	< 0.005	0.024	< 0.005	0.0051
370	86	40	55	54	67	75	50	88	24	25	80	460	110	300
< 0.1	0.038	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
5,100	2,100	340	620	680	2,800	1,800	970	3,200	260	370	2,500	14,000	4,000	4,600
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005
< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0055	0.0068	< 0.003	< 0.012	< 0.003	< 0.003
< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Unit 1,2,3 Pond Wells

ParameterName	P-1R 2/25/2013	P-2 2/25/2013	P-4 2/25/2013	P-5R 2/25/2013	P-6R 2/25/2013	P-7R 2/25/2013	P-8R 2/25/2013	P-8R Duplicate 2/25/2013	P-9 2/25/2013	P-9R 2/25/2013	KMW-9 2/25/2013	P-10 2/25/2013	P-11 2/25/2013	P-12 2/25/2013
	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
General Chemistry	NOT SAMPLED, ABANDONED 2/13								NOT SAMPLED, ABANDONED 2/13					
ph (field)		7.2	7.22	7.21	7.18	7.29	7.19	NA		7.25	7.02	7.18	7.22	7.35
General Chemistry (µmhos/cm)														
Specific Conductance		35,800	52,500	45,900	69,400	77,900	78,500	75,900		10,870	47,200	28,200	5,520	6,700
General Chemistry (mg/L)														
Chloride		5,500	6,500	6,500	5,100	5,300	6,100	6,000		1,000	3,600	3,900	440	480
Nitrogen, Nitrate(As N)		2.8	2.0	< 0.5	2.4	2.7	3.0	3.0		< 0.5	1.9	1.2	4.1	1.9
Sulfate		18,000	35,000	26,000	69,000	120,000	75,000	98,000		4,700	32,000	14,000	2,400	3,100
Sulfide		0.074	< 0.05	0.085	< 0.05	0.051	0.068	< 0.05		0.15	< 0.05	0.052	NA	NA
Sulfite		< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2	< 2	< 2	NA	NA
Suspended Solids (residue,non-filterable)		107	25	1,410	7,320	85	4,890	7,740		5,324	32	5,950	NA	NA
Total Dissolved Solids(residue, filterable)		36,400	63,600	51,700	102,400	123,400	118,000	117,000		9,510	56,100	29,400	4,600	5,676
Total Organic Carbon		17	16	12	25	28	23	23		< 1	4.6	5.0	NA	NA
General Chemistry (NTU)														
Turbidity		88.8	21.2	1050	7660	57.8	4290	7460		1,230	20	3,880	NA	NA
Metals (mg/L)														
Arsenic, Dissolved		0.45	0.24	0.30	0.51	0.84	0.38	0.38		< 0.02	0.063	0.24	< 0.02	< 0.02
Beryllium, Dissolved		< 0.006	< 0.012	< 0.009	< 0.018	< 0.015	< 0.018	< 0.018		< 0.003	< 0.009	< 0.006	< 0.003	< 0.003
Boron, Dissolved		48	180	40	250	620	660	680		18	160	51	5.3	4.3
Cadmium, Dissolved		< 0.006	< 0.012	< 0.009	< 0.018	< 0.015	< 0.018	< 0.018		< 0.003	< 0.009	< 0.006	< 0.003	< 0.003
Calcium, Dissolved		460	460	460	570	710	600	630		460	450	490	440	390
Chromium, Dissolved		< 0.01	< 0.02	< 0.015	< 0.03	< 0.025	< 0.03	< 0.03		< 0.005	< 0.015	< 0.01	0.017	0.028
Fluoride, Dissolved		14.0	5.6	4.6	< 0.5	< 0.5	11	< 0.5		2.6	2.8	11	NA	NA
Magnesium, Dissolved		1,800	1,500	2,200	2,800	1,600	3,800	3,800		280	1,500	1,500	190	210
Manganese, Dissolved		4.3	2.1	2.2	4.7	4.9	6.4	6.7		0.31	1.7	0.72	< 0.005	0.0063
Molybdenum, Dissolved		2.1	1.3	0.75	1.4	0.52	0.81	0.85		0.12	0.27	1.1	0.085	0.12
Nickel, Dissolved		0.031	0.073	< 0.015	0.086	0.27	0.36	0.22		0.0065	0.058	< 0.01	< 0.005	< 0.005
Potassium, Dissolved		760	820	460	1100	1200	1200	1100		110	260	410	92	63
Selenium, Dissolved		< 0.02	< 0.04	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	0.040	0.039
Sodium, Dissolved		8,200	17,000	13,000	22,000	20,000	25,000	23,000		2,100	15,000	6,100	700	1,200
Strontium, Dissolved		10	11	11	16	19	16	16		10	11	14	NA	NA
Titanium, Dissolved		< 0.01	< 0.02	< 0.015	< 0.03	< 0.025	< 0.03	< 0.03		< 0.005	< 0.015	< 0.01	< 0.005	< 0.005
Vanadium, Dissolved		0.008	< 0.012	< 0.009	< 0.018	< 0.015	< 0.018	< 0.018		< 0.003	< 0.009	0.017	< 0.003	0.0058
Zinc, Dissolved		< 0.01	< 0.02	0.022	0.25	< 0.025	0.17	0.13		< 0.005	0.048	< 0.01	NA	NA

[1] Location resampled for nitrate on 9/12/2012 or 9/17/2012

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Unit 1,2,3 Pond Wells

ParameterName	P-13R 2/25/2013	P-14R 2/25/2013	P-15AR 2/26/2013	P-17A 2/25/2013	P-17B 2/25/2013	P-18A 2/25/2013	P-18B 2/25/2013	P-19AR 2/25/2013	P-20A 2/25/2013	P-20B 2/25/2013	KMW-8R 2/25/2013	P-21 2/25/2013	P-22 2/25/2013	IMW-16S 2/26/2013
	Result	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry														
ph (field)	7.19	7.65	7.02	7.14	6.94		7.09	7.27	7.56	7.18	7.07	7.2	7.19	7.44
General Chemistry (µmhos/cm)														
Specific Conductance	34,700	25,400	9,960	48,300	62,200		10,400	8,090	6,990	4,550	27,300	8,660	12,980	5,260
General Chemistry (mg/L)														
Chloride	3,900	3,300	480	4,400	4,300		1,100	780	410	470	2,100	560	1,200	400
Nitrogen, Nitrate(As N)	1.5	0.94	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	0.97	0.92	< 0.5	< 0.5
Sulfate	21,000	12,000	4,600	38,000	52,000		4,600	3,800	3,200	1,900	17,000	4,100	6,600	1,900
Sulfide	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
Sulfite	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
Suspended Solids (residue,non-filterable)	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids(residue, filterable)	38,100	22,480	9,240	68,000	90,800		10,080	7,510	5,940	3,972	29,040	7,680	12,560	4,120
Total Organic Carbon	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry (NTU)														
Turbidity	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/L)														
Arsenic, Dissolved	0.26	< 0.02	0.23	0.49	0.43		< 0.02	< 0.02	0.026	< 0.02	< 0.02	0.024	< 0.02	0.22
Beryllium, Dissolved	< 0.006	< 0.006	< 0.003	< 0.009	< 0.015		< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	< 0.003	< 0.003	< 0.003
Boron, Dissolved	58	120	14	63	120		7.5	6.4	6.4	2.3	58	12	12	2.6
Cadmium, Dissolved	< 0.006	< 0.006	< 0.003	< 0.009	< 0.015		< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	< 0.003	< 0.003	< 0.003
Calcium, Dissolved	410	500	470	490	480		510	550	360	440	480	430	520	150
Chromium, Dissolved	0.015	< 0.01	< 0.005	< 0.015	0.029		< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	0.0058	< 0.005
Fluoride, Dissolved	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
Magnesium, Dissolved	1,900	310	270	4,500	4,200		480	390	150	220	1,100	250	540	190
Manganese, Dissolved	3.5	< 0.1	0.14	0.83	1.7		0.71	0.68	0.051	0.48	0.96	0.18	0.71	0.20
Molybdenum, Dissolved	5.0	2.0	0.036	0.088	0.26		0.21	0.11	0.15	0.096	0.18	0.16	0.076	0.082
Nickel, Dissolved	0.41	0.055	0.0052	0.038	0.044		< 0.005	< 0.005	0.0058	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005
Potassium, Dissolved	1000	410	65	280	280		66	77	100	55	160	63	99	72
Selenium, Dissolved	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.026	< 0.02	< 0.02
Sodium, Dissolved	8,000	6,600	2,000	12,000	20,000		1,700	1,000	1,300	380	7,200	1,600	2,400	950
Strontium, Dissolved	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
Titanium, Dissolved	< 0.01	< 0.01	< 0.005	< 0.015	< 0.025		< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005
Vanadium, Dissolved	< 0.006	0.028	< 0.003	< 0.009	< 0.015		0.0063	0.0031	0.0044	< 0.003	< 0.006	< 0.003	< 0.003	< 0.003
Zinc, Dissolved	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA

NO SAMPLE, DRY

[1] Location resampled for nitrate on 9/12/2012 o

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Former ASP-1,2,3 Wells

	IMW-9R	IMW-12.5R	IMW-13R	IMW-14R	IMW-15	IMW-17
	2/28/2013	2/28/2013	2/28/2013	2/28/2013	2/28/2013	2/28/2013
ParameterName	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry						
ph (field)	7.05	7.43	7.66	7.85	NOT SAMPLED, ABANDONED	7.77
General Chemistry (mg/L)						
Chloride	290	69	74	660		120
Nitrogen, Nitrate(As N)	< 0.5	< 0.5	< 0.5	7.6		< 0.5
Phosphorus, Total (As P)	< 0.1	0.14	< 0.1	0.18		< 0.1
Sulfate	810	120	360	2,300		790
Sulfide	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05
Sulfite	< 2	< 2	< 2	< 2		< 2
Suspended Solids (residue,non-filterable)	< 15	78	148	580		147
Total Dissolved Solids(residue, filterable)	2,090	693	929	5,132		1,684
Total Organic Carbon	< 1	1.1	< 1	< 1		< 1
General Chemistry (NTU)						
Turbidity	1.73	55.8	165	840		118
Metals (mg/L)						
Arsenic, Dissolved	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02
Barium, Dissolved	0.012	0.045	0.023	0.0062		0.014
Beryllium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003		< 0.003
Boron, Dissolved	0.79	0.62	1.9	4.3		2.9
Cadmium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003		< 0.003
Calcium, Dissolved	140	35	33	79		42
Chromium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Fluoride, Dissolved	2.6	2.6	2.6	8.5		3.7
Magnesium, Dissolved	100	34	27	51		14
Manganese, Dissolved	< 0.005	0.019	0.036	< 0.005		< 0.005
Molybdenum, Dissolved	0.019	< 0.005	0.017	0.38		0.12
Nickel, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Selenium, Dissolved	0.023	< 0.02	< 0.02	0.043		0.023
Sodium, Dissolved	330	140	230	1,700		510
Strontium, Dissolved	3.6	1.7	2.1	1.7		1.7
Titanium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Vanadium, Dissolved	0.0046	0.012	0.023	0.0052		0.0036
Zinc, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
VOC (µg/L)						
Acetone	< 10	< 10	< 10	< 10		< 10
Benzene	< 5	< 5	< 5	< 5		< 5
Bromobenzene	< 5	< 5	< 5	< 5		< 5
Bromodichloromethane	< 5	< 5	< 5	< 5		< 5
Bromoform	< 5	< 5	< 5	< 5		< 5

1 Location resampled for nitrate on 9/12/2012

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Former ASP-1,2,3 Wells

VOC (µg/L)						
Bromomethane	< 5	< 5	< 5	< 5	NOT SAMPLED, ABANDONED	< 5
n-Butylbenzene	< 5	< 5	< 5	< 5		< 5
sec-Butylbenzene	< 5	< 5	< 5	< 5		< 5
tert-Butylbenzene	< 5	< 5	< 5	< 5		< 5
Carbon Disulfide	< 5	< 5	< 5	< 5		< 5
Carbon tetrachloride	< 5	< 5	< 5	< 5		< 5
Chlorobenzene	< 5	< 5	< 5	< 5		< 5
Chloroethane	< 5	< 5	< 5	< 5		< 5
Chloroform	< 5	< 5	< 5	< 5		< 5
Chloromethane	< 5	< 5	< 5	< 5		< 5
2-Chlorotoluene	< 5	< 5	< 5	< 5		< 5
4-Chlorotoluene	< 5	< 5	< 5	< 5		< 5
1,2-Dibromo-3-chloropropane	< 5	< 5	< 5	< 5		< 5
Dibromochloromethane	< 5	< 5	< 5	< 5		< 5
1,2-Dibromoethane	< 5	< 5	< 5	< 5		< 5
Dibromomethane	< 5	< 5	< 5	< 5		< 5
1,2-Dichlorobenzene	< 5	< 5	< 5	< 5		< 5
1,3-Dichlorobenzene	< 5	< 5	< 5	< 5		< 5
1,4-Dichlorobenzene	< 5	< 5	< 5	< 5		< 5
Dichlorodifluoromethane	< 5	< 5	< 5	< 5		< 5
1,1-Dichloroethane	< 5	< 5	< 5	< 5		< 5
1,2-Dichloroethane	< 5	< 5	< 5	< 5		< 5
1,1-Dichloroethene	< 5	< 5	< 5	< 5		< 5
cis-1,2-Dichloroethene	< 5	< 5	< 5	< 5		< 5
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5		< 5
1,2-Dichloropropane	< 5	< 5	< 5	< 5		< 5
1,3-Dichloropropane	< 5	< 5	< 5	< 5		< 5
2,2-Dichloropropane	< 5	< 5	< 5	< 5		< 5
1,1-Dichloropropene	< 5	< 5	< 5	< 5		< 5
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5		< 5
Ethylene	< 5	< 5	< 5	< 5		< 5
Hexachlorobutadiene	< 5	< 5	< 5	< 5		< 5
Isopropylbenzene	< 5	< 5	< 5	< 5		< 5
4-Isopropyltoluene	< 5	< 5	< 5	< 5		< 5
4-Methyl-2-Pentanone	< 10	< 10	< 10	< 10		< 10
Methylene chloride	< 5	< 5	< 5	< 5		< 5
Methyl-tert-butyl ether	< 5	< 5	< 5	< 5		< 5
Naphthalene (VOC)	< 5	< 5	< 5	< 5		< 5
n-Propylbenzene	< 5	< 5	< 5	< 5		< 5
Styrene	< 5	< 5	< 5	< 5		< 5
1,1,1,2-Tetrachloroethane	< 5	< 5	< 5	< 5		< 5
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5		< 5
Tetrachloroethene	< 5	< 5	< 5	< 5		< 5

1 Location resampled for nitrate on 9/12/2012

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Former ASP-1,2,3 Wells

VOC (µg/L)						
Toluene	< 5	< 5	< 5	< 5	NOT SAMPLED, ABANDONED	< 5
1,2,3-Trichlorobenzene	< 5	< 5	< 5	< 5		< 5
1,2,4-Trichlorobenzene	< 5	< 5	< 5	< 5		< 5
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5		< 5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5		< 5
Trichloroethene	< 5	< 5	< 5	< 5		< 5
Trichlorofluoromethane	< 5	< 5	< 5	< 5		< 5
1,2,3-Trichloropropane	< 5	< 5	< 5	< 5		< 5
1,2,4-Trimethylbenzene	< 5	< 5	< 5	< 5		< 5
1,3,5-Trimethylbenzene	NA	NA	NA	NA		NA
Vinyl chloride	< 2	< 2	< 2	< 2		< 2
m,p-Xylene	< 5	< 5	< 5	< 5		< 5
o-Xylene	< 5	< 5	< 5	< 5		< 5
Total Xylenes	< 5	< 5	< 5	< 5		< 5

1 Location resampled for nitrate on 9/12/2012

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Dissolved Chlorinated Solvents Area

	HM-8	HM-48	HM-50R
	2/28/2013	2/28/2013	2/28/2013
ParameterName	**Result**	**Result**	**Result**
General Chemistry		NOT SAMPLED, FREE PRODUCT	NOT SAMPLED, FREE PRODUCT
ph (field)	7.12		
General Chemistry (mg/L)			
Chloride	250		
Nitrogen, Nitrate(As N)	< 0.5		
Phosphorus, Total (As P)	1.8		
Sulfate	820		
Suspended Solids (residue,non-filterable)	NA		
Total Dissolved Solids(residue, filterable)	2,494		
Total Organic Carbon	NA		
Metals (mg/L)			
Arsenic, Dissolved	0.041		
Barium, Dissolved	0.031		
Beryllium, Dissolved	< 0.003		
Boron, Dissolved	4.0		
Cadmium, Dissolved	< 0.003		
Calcium, Dissolved	62		
Chromium, Dissolved	< 0.005		
Magnesium, Dissolved	51		
Manganese, Dissolved	0.073		
Molybdenum, Dissolved	0.035		
Nickel, Dissolved	0.0050		
Selenium, Dissolved	< 0.02		
Sodium, Dissolved	790		
Strontium, Dissolved	NA		
Titanium, Dissolved	< 0.005		
Vanadium, Dissolved	< 0.003		
VOC (µg/L)			
Acetone	< 10		
Benzene	< 5		
Bromobenzene	< 5		
Bromodichloromethane	< 5		
Bromoform	< 5		
Bromomethane	< 5		
n-Butylbenzene	< 5		
sec-Butylbenzene	< 5		
tert-Butylbenzene	< 5		
Carbon Disulfide	< 5		
Carbon tetrachloride	< 5		

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Dissolved Chlorinated Solvents Area

	HM-8	HM-48	HM-50R
	2/28/2013	2/28/2013	2/28/2013
ParameterName	**Result**	**Result**	**Result**
VOC (µg/L)			
Chlorobenzene	< 5	NOT SAMPLED, FREE PRODUCT	NOT SAMPLED, FREE PRODUCT
Chloroethane	< 5		
Chloroform	< 5		
Chloromethane	< 5		
2-Chlorotoluene	< 5		
4-Chlorotoluene	< 5		
1,2-Dibromo-3-chloropropane	< 5		
Dibromochloromethane	< 5		
1,2-Dibromoethane	< 5		
Dibromomethane	< 5		
1,2-Dichlorobenzene	< 5		
1,3-Dichlorobenzene	< 5		
1,4-Dichlorobenzene	< 5		
Dichlorodifluoromethane	< 5		
1,1-Dichloroethane	< 5		
1,2-Dichloroethane	< 5		
1,1-Dichloroethene	< 5		
cis-1,2-Dichloroethene	< 5		
trans-1,2-Dichloroethene	< 5		
1,2-Dichloropropane	< 5		
1,3-Dichloropropane	< 5		
2,2-Dichloropropane	< 5		
1,1-Dichloropropene	< 5		
cis-1,3-Dichloropropene	< 5		
Ethylbenzene	< 5		
Ethylene	< 0.013		
Hexachlorobutadiene	< 5		
Isopropylbenzene	< 5		
4-Isopropyltoluene	< 5		
4-Methyl-2-Pentanone	< 10		
Methylene chloride	< 5		
Methyl-tert-butyl ether	< 5		
Naphthalene (VOC)	< 5		
n-Propylbenzene	< 5		
Styrene	< 5		
1,1,1,2-Tetrachloroethane	< 5		
1,1,2,2-Tetrachloroethane	< 5		
Tetrachloroethene	< 5		
Toluene	< 5		
1,2,3-Trichlorobenzene	< 5		
1,2,4-Trichlorobenzene	< 5		
1,1,1-Trichloroethane	< 5		
1,1,2-Trichloroethane	< 5		
Trichloroethene	< 5		
Trichlorofluoromethane	< 5		
1,2,3-Trichloropropane	< 5		
1,2,4-Trimethylbenzene	< 5		
1,3,5-Trimethylbenzene	NA		
Vinyl chloride	< 2		
m,p-Xylene	< 5		
o-Xylene	< 5		
Total Xylenes	< 5		

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
WMU-12 Area

ParameterName	HM-19 2/28/2013	HM-20 2/28/2013	HM-24 2/28/2013	HM-28 2/28/2013	HM-31R 2/28/2013	HM-31R Duplicate 2/28/2013	HM-32R 2/28/2013	HM-33 2/28/2013	HM-52R 2/28/2013	HM-53 2/28/2013	HM-54 2/28/2013	HM-60 2/28/2013	Unit 4 Dewatering Well Effluent 2/28/2013
	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
General Chemistry													
ph (field)	7.5	NOT SAMPLED, FREE PRODUCT	7.71	7.2	7.76	NA	7.39	7.44	7.24	6.96	7.13	7.43	7.46
General Chemistry (mg/L)													
Chloride	220		810	300	370	390	370	260	250	410	810	210	290
Nitrogen, Nitrate(As N)	< 0.5		< 0.5	< 0.5	< 0.5	9.6	< 0.5	0.57	< 0.5	< 0.5	< 0.5	< 0.5	0.55
Phosphorus, Total (As P)	0.18		0.50	0.58	0.44	0.45	< 0.1	< 0.1	< 0.1	0.59	0.15	0.24	< 0.1
Sulfate	1,100		2,800	1,200	760	730	4,400	1,200	1,200	2,300	3,400	1,100	980
Sulfide	NA		NA	< 0.05	NA	NA	NA	NA	< 0.05	< 0.05	< 0.05	NA	< 0.05
Sulfite	NA		NA	< 2	NA	NA	NA	NA	< 2	< 2	< 2	NA	< 2
Suspended Solids (residue,non-filterable)	NA		NA	1,000	NA	NA	NA	NA	1,159	181	778	NA	< 15
Total Dissolved Solids(residue, filterable)	2,452		6,332	2,696	3,296	3,280	7,590	2,458	2,638	4,748	6,830	2,264	2,316
Total Organic Carbon	NA		NA	< 1	NA	NA	NA	NA	< 1	2.0	4.0	NA	< 1
General Chemistry (NTU)													
Turbidity	NA		NA	1140	NA	NA	NA	NA	365	163	630	NA	< 1
Metals (mg/L)													
Arsenic, Dissolved	0.070		< 0.02	0.035	< 0.02	< 0.02	0.20	< 0.02	0.044	0.73	0.082	0.027	< 0.02
Barium, Dissolved	0.0078		0.051	0.010	0.16	0.16	0.0090	0.014	0.011	0.017	0.011	0.022	0.015
Beryllium, Dissolved	< 0.003		< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Boron, Dissolved	3.3		8.5	3.0	3.2	3.2	3.2	2.2	3.5	6.7	16	2.4	1.4
Cadmium, Dissolved	< 0.003		< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Calcium, Dissolved	56		68	110	61	60	150	140	72	200	190	89	130
Chromium, Dissolved	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride, Dissolved	NA		NA	2.0	NA	NA	NA	NA	3.5	6.7	5.2	NA	3.4
Magnesium, Dissolved	66		200	88	75	74	92	92	78	230	270	61	120
Manganese, Dissolved	0.050		0.023	0.015	0.0079	0.0091	0.049	< 0.005	0.011	0.13	0.23	0.032	< 0.005
Molybdenum, Dissolved	0.025		< 0.005	0.048	< 0.005	< 0.005	0.067	0.023	0.033	0.087	0.11	0.032	0.033
Nickel, Dissolved	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.012	< 0.005	< 0.005	< 0.005
Selenium, Dissolved	< 0.02		0.027	0.026	0.11	0.077	< 0.02	0.024	< 0.02	0.028	< 0.02	0.032	0.022
Sodium, Dissolved	730		1,900	620	1,100	1,100	2,100	480	690	1,000	1,700	570	440
Strontium, Dissolved	NA		NA	3.2	NA	NA	NA	NA	2.3	8.2	7.5	NA	3.6
Titanium, Dissolved	< 0.005		< 0.005	< 0.005	0.027	0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium, Dissolved	< 0.003		< 0.003	0.0090	0.026	0.025	0.0064	0.0098	0.0070	< 0.003	0.0035	0.012	0.005
Zinc, Dissolved	NA		NA	< 0.005	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005	NA	0.006

TABLE 1A - QUARTERLY MONITORING WELL PRODUCT LEVELS

REID GARDNER STATION (DIESEL RECOVERY PROJECT)
GROUNDWATER ELEVATION DATA

Date Collected: 2/28/2013 Collected By: Thompson

Well (New I.D.)	New TOC Elev	Depth to top of Diesel	Depth to top of Water	New Groundwater Elevation*	Product Thickness	Top of Product Elevation	Sample Comments
HM-1	1596.47		18.47	1578.00	0		Gauged 2/28/2013
HM-2	1595.93		18.04	1577.89	0		Gauged 2/28/2013
HM-4	1596.88		19.32	1577.56	0		Gauged 2/28/2013
HM-5a	1593.68		-	-	-		Not gauged (pump in well)
HM-6	1590.48	WELL DESTROYED			-	-	
HM-7	1598.57	22.38	22.48	1576.17	0.10	1576.19	Gauged 2/28/2013
HM-8	1594.56		16.10	1578.46	0		Sampled 2/28/2013
HM-12	1589.95		14.45	1575.50	0		Gauged 2/28/2013
HM-15	1588.72		20.59	1568.13	0		Gauged 2/28/2013
HM-16	1591.59	WELL DESTROYED			0		
HM-17	1588.24		18.30	1569.94	0		Gauged 2/28/2013
HM-18	1586.66		23.37	1563.29	0		Gauged 2/28/2013
HM-19	1584.67		21.43	1563.24	0		Sampled 2/28/2013
HM-20	1588.67	23.80	24.16	1564.81	0.36	1564.87	Gauged 2/28/2013
HM-21	1587.04		Dry	#VALUE!	0		Gauged 2/28/2013
HM-22	1591.01		Dry	#VALUE!	0		Gauged 2/28/2013
HM-23	1588.52		24.31	1564.21	0		Gauged 2/28/2013
HM-24	1586.21		22.60	1563.61	0		Sampled 2/28/2013
HM-27		WELL DESTROYED			0		
HM-28	1592.71		28.92	1563.79	0		Sampled 2/28/2013
HM-29	1582.15		19.21	1562.94	0		Gauged 2/28/2013
HM-30	1591.28		14.52	1576.76	0		Gauged 2/28/2013
HM-31R	1590.37		16.88	1573.49	0		Sampled 2/28/2013
HM-32R	1586.38		9.97	1576.41	0		Sampled 2/28/2013
HM-33	1591.33		13.94	1577.39	0		Sampled 2/28/2013
HM-34	1582.57		19.66	1562.91	0		Gauged 2/28/2013
HM-36	1581.02		18.25	1562.77	0		Gauged 2/28/2013
HM-38	1596.1	20.18	22.45	1575.53	2.27	1575.92	Gauged 2/28/2013
HM-39	1597.64	21.54	23.80	1575.72	2.26	1576.10	Gauged 2/28/2013
HM-40	1597.9		20.56	1577.34	0		Gauged 2/28/2013
HM-41	1592.6		15.38	1577.22	0		Gauged 2/28/2013
HM-42	1595.11	17.72	17.98	1577.35	0.26	1577.39	Gauged 2/28/2013
HM-43	1595.64		18.41	1577.23	0		Gauged 2/28/2013
HM-44	1595.65	18.33	18.40	1577.31	0.07	1577.32	Gauged 2/28/2013
HM-45	1594.4	17.81	19.78	1576.26	1.97	1576.59	Gauged 2/28/2013
HM-46	1591.53		NM	-	0		
HM-47	1595.06	18.20	18.21	1576.86	0.01	1576.86	Gauged 2/28/2013
HM-48	1589.01	10.25	10.31	1578.75	0.06	1578.76	Gauged 2/28/2013
HM-50R	1588.63	10.01	10.71	1578.50	0.70	1578.62	Gauged 2/28/2013
HM-51	1588.21	WELL DESTROYED			-		
HM-52R	1581.35		20.14	1561.21	0		Sampled 2/28/2013
HM-53	1581.74		17.44	1564.30	0		Sampled 2/28/2013
HM-54	1580.66		19.39	1561.27	0		Sampled 2/28/2013
HR-1	1593.12	16.88	18.23	1576.01	1.35	1576.24	Gauged 2/28/2013
HR-2	1592.2	19.10	19.80	1572.98	0.70	1573.10	Gauged 2/28/2013
HR-4	1591.36		-	-	-		Not gauged (too many hoses)
T1-PA	1592.39			-	-		Not gauged (well dry)
TI-S	1593.76		-	-	-		Not gauged (too many hoses)
T2-S	1590.17		-	-	-		Not gauged (too many hoses)
T3-S	1589.01		-	-	-		Not gauged (manhole cover)
T4-S	1588.73		-	-	-		Not gauged (manhole cover, buried)
T5-S	1587.82		-	-	-		Not gauged (well dry)

* For wells with floating product, groundwater elevation is equal to the water elevation plus 0.83 times the diesel thickness.

Table 3 - Surface Sampling Location Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station

ParameterName	MR-1 3/1/2013 Result	MR-1 Duplicate 3/1/2013 Result	MR-2 3/1/2013 Result	MR-3 3/1/2013 Result	MR-4 3/1/2013 Result	MR-UP 3/1/2013 Result	SGSPR 3/1/2013 Result
General Chemistry							
ph (field)	8.22	NA	8.23	8.32	8.12	8.08	7.26
General Chemistry (mg/L)							
Hardness as CaCO3	300	300	300	300	320	300	1,400
Nitrate + Nitrite (As N)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Nitrogen	0.14	0.15	0.18	0.19	0.17	0.14	3.2
Phosphorus, Total (As P)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.4
Sulfate	190	190	190	190	200	190	1,600
Total Dissolved Solids(residue, filterable)	637	647	640	642	663	631	3,428
Total Kjeldahl Nitrogen	0.14	0.15	0.18	0.19	0.17	0.14	3.2
Metals (mg/L)							
Antimony, Total	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Arsenic, Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.13
Barium, Total	0.049	0.049	0.049	0.050	0.054	0.049	0.22
Beryllium, Total	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Boron, Total	0.32	0.32	0.32	0.32	0.34	0.32	2.0
Cadmium, Total	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Calcium, Total	71	71	70	71	73	71	270
Chromium, Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.034
Copper, Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.024
Fluoride, Total	2.3	2.3	2.3	2.2	2.4	2.4	5.3
Iron, Total	0.80	0.84	0.91	0.93	1.2	0.78	9.8
Lead, Total	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	0.018
Magnesium, Total	30	30	30	30	32	30	180
Manganese, Total	0.018	0.019	0.021	0.021	0.028	0.018	0.24
Mercury, Total	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum, Total	0.0080	0.0079	0.0090	0.0083	0.0086	0.0076	0.044
Nickel, Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0072
Selenium, Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Silver, Total	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium, Total	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Zinc, Total	0.0056	0.0069	0.0050	0.0053	0.0055	0.0060	0.038

Table 4 - Groundwater Elevation
First Quarter 2013
NV Energy
Reid Gardner Station

Well ID	Ground Elev	TOC Elev	Well Depth (at Construction)[1]	Well Depth (4th Qtr - 2012)[2]	Screened Interval[1] Top	Screened Interval[1] Bottom	Water Level	Note	Groundwater Elevation
Mesa Wells									
LMW-2	1699.25	1702.25	120	117.45	100	120	110.21		1592.04
LMW-3	1682.39	1685.02	115	98.10	73	103	94.1		1590.92
LMW-4	1730.40	1734.02	157	137.60	116.5	146.5		%	
LMW-4R	1731.39	1733.90	165	166.10	125	165	138.6		1595.30
LMW-5	1732.09	1734.87	157	141.00	112	142		%	
LMW-5R	1728.94	1731.95	183	185.95	133	173	136.56		1595.39
LMW-6	1756.89	1760.01	177	159.45	131	161		%	
LMW-6R	1734.83	1737.51	165	169.40	130	160	138.53		1598.98
LMW-7	1738.55	1741.07	178	162.10	108	178	139.82		1601.25
LMW-8	1685.67	1689.18	112	100.50	73	103		%	
LMW-8R	1688.01	1690.29	128	129.80	88	118	99.69		1590.60
LMW-9	1729.98	1733.47	153	156.90	128	148	126.57		1606.90
LMW-10	1747.03	1750.63	154	145.85	129	149	140.56		1610.07
LMW-11	1739.67	1741.89	180	162.00	123	153		NS	1741.89
KMW-12	1738.80	1741.64	165	163.60	145	165	151.87		1589.77
KMW-13	1709.40	1712.73	120		90	110		%	
KMW-16	1736.76	1740.47	145	142.35	125	145	139.93		1600.54
KMW-17	1740.00	1725.51	125		105	125		%	
Unit 4 Pond Wells									
IMW-2D	1612.64	1613.77	102	101.50	75	85	19.94		1593.83
IMW-2S	1612.97	1614.01	28	19.71	10	20		%	
IMW-2SR	1612.54	1615.91	44	43.90	19	39	23.75		1592.16
KMW-1D	1612.62	1615.83	75	78.80	65	75	21.01		1594.82
KMW-1M	1612.18	1615.90	50	47.00	40	50	21.03		1594.87
KMW-1S	1612.32	1615.70	25	29.00	10	25	23.62		1592.08
KMW-19	1612.69	1616.23	25	28.00	10	25	24.09		1592.14
KMW-20	1614.76	1618.42	35	34.00	12	32	26.21		1592.21
KMW-11	1605.04	1606.11	47	47.80	37	47	14.06		1592.05
KMW-2D	1598.25	1601.94	74	77.80	64	74	11.17		1590.77
KMW-2M	1598.25	1601.89	50	52.50	40	50	11.15		1590.74
KMW-2S	1598.28	1601.76	25	26.40	5	25	11.09		1590.67
MW-10R	1597.21	1599.97	25	7.60	5	25		%	
MW-10RR	1597.21	1598.69	26	27.00	6	16	8.78		
MW-2R	1595.81	1597.83	20	22.90	5	20	10.79		1587.04
MW-3R	1599.98	1603.33	25		5	25		%	
MW-3RR	1598.24	1600.26	28	30.20	8	23	12.39		1587.87
MW-5	1603.35	1606.22	30	32.30	20	30	16.92		1589.30
MW-6	1602.51	1605.75	25	28.00	20	25	15.43		1590.32
MW-7	1603.60	1615.99	13.45	21.70	5	10		%	1615.99
CMW-1D	1587.69	1589.60	35	35.60	25	35	5.81		1583.79
CMW-1S	1587.69	1589.40	35	11.80	5	10	6.03		1583.37
CMW-2D	1587.49	1589.34	35	34.50	25	35	7.01		1582.33
CMW-2S	1587.49	1589.17	35	11.80	5	10	6.56		1582.61
CMW-3D	1598.46	1600.49	46	47.90	35	45	16.23		1584.26
CMW-3S	1598.46	1600.37	46	25.50	17	22	16.53		1583.84
CMW-4D	1593.26	1595.33	30	29.50	20	30	9.83		1585.50
CMW-4S	1593.26	1595.31	30	17.90	10	15	9.87		1585.44
CMW-5D	1599.26	1601.39	46	42.70	35	45	16.18		1585.21
CMW-5S	1599.26	1601.27	46	22.00	15	20	16.43		1584.84
CMW-6D	1599.40	1601.61	45	47.20	35	45	15.24		1586.37
CMW-6S	1599.40	1601.73	45	21.20	15	20	15.23		1586.50
CMW-7D	1592.30	1594.44	35	32.70	25	35	6.53		1587.91
CMW-7S	1592.30	1594.31	35	17.60	10	15	5.56		1588.75
KMW-15	1595.87	1598.74	27	26.90	10	25	15.21		1583.53
MW-1R	1595.08	1597.00	20	23.60	5	20	9.30		1587.70
MW-4	1602.49	1605.62	30	32.90	20	30	17.92		1587.70
MW-8	1611.93	1605.72	30	32.90	20	30	19.14		1586.58
MW-9	1603.62	1606.66	35	37.80	25	35	19.11		1587.55
IMW-2.5D	1595.11	1595.84	70	56.90	40	50	8.39		1587.45
IMW-2.5S	1595.18	1595.32	20	18.50	10	20	7.91		1587.41
IMW-3D	1597.11	1598.02	100		90	100		NA	1598.02
IMW-3S	1597.14	1598.34	25	24.06	15	25		NA	1598.34

Table 4 - Groundwater Elevation
First Quarter 2013
NV Energy
Reid Gardner Station

Well ID	Ground Elev	TOC Elev	Well Depth (at Construction)[1]	Well Depth (4th Qtr - 2012)[2]	Screened Interval[1] Top	Screened Interval[1] Bottom	Water Level	Note	Groundwater Elevation
Unit 1,2,3 Pond Wells									
P-1R	1589.81	1592.22	25	30.00	5	25		NS	1592.22
P-2	1588.89	1590.63	17	18.60	7	17	6.2		1584.43
P-3	1588.80	1590.34	18		8	18		#	
P-4	1588.67	1591.12	20.4	20.60	8	18	14.53		1576.59
P-5R	1595.74	1597.69	35	35.00	10	35	19.71		1577.98
P-6R	1595.27	1597.14	33	35.20	8	33	19.11		1578.03
P-7R	1595.66	1597.45	33	35.20	8	33	18.19		1579.26
P-8R	1599.47	1601.46	33	34.70	8	33	20.19		1581.27
P-9	1593.48	1596.45	15	18.75	5	15		NS	1596.45
P-9R	1597.06	1598.86	33	34.80	8	33	12.76		1586.10
KMW-9	1595.90	1599.09	60	63.50	50	60	14.41		1584.68
P-10	1595.34	1600.15	14	19.10	4	14	12.49		1587.66
P-11	1634.51	1638.00	65	68.00	20	65	47.65		1590.35
P-12R	1620.05	1623.70	82	83.50	67	82	36.02		1587.68
P-13R	1609.99	1612.29	35	36.40	15	35	25.57		1586.72
P-14R	1604.56	1606.71	35	37.50	10	35	21.1		1585.61
P-15AR	1595.36	1597.22	25	28.20	5	25	12.98		1584.24
P-17A	1583.86	1587.02	12.8	13.30	5	10	9.02		1578.00
P-17B	1583.50	1586.14	13	12.90	5	10	8.12		1578.02
P-18A	1581.70	1583.83	13.2	13.20			Dry	**	NA
P-18B	1580.69	1583.94	13.4	13.15	5	10	9.94		
P-19A	1579.53	1582.33		13.19				%	
P-19AR	1578.48	1580.77	28	28.70	8	23	7.89		
P-20A	1578.02	1580.71	24	27.50	15	25	6.09		1574.62
P-20B	1577.24	1580.70	20.5	30.60	17	27	6.28		1574.42
KMW-8R	1596.18	1598.86	73	77.30	60	70	21.65		1577.21
P-21	1587.20	1590.73	49	54.80	34	49	4.27		1586.46
P-22	1577.55	1579.87	33	31.50	18	33	3.61		1576.26
IMW-16S	1570.74	1571.12	22	17.00	10	20	9.27		1561.85
IMW-16D		1571.28	80		70	80		#	
Former ASP-1,2,3 Area									
IMW-9R	1596.49	1599.29	22	25.00	12	22	18.32		1580.97
IMW-12.5R	1620.28	1623.06	35	35.80	15	35	20.49		1602.57
IMW-13R	1617.31	1620.14	35	34.70	15	35	19.85		1600.29
IMW-14R	1602.86	1605.50	30	32.90	10	30	13.17		1592.33
IMW-15	1592.08	1594.55	30	32.00	10	30		#	1594.55
IMW-17	1598.23	1600.25	30	30.60	8	28	17.78		1582.47
Dissolved Chlorinated Solvents Area									
HM-8	1591.01	1594.56	20	25.40	10	20	16.1		1578.46
HM-48	1589.17	1589.01	29	28.15	4	29	10.31	FP	1578.70
HM-50	1589.12	1588.58	25	25.22	5	25		#	
HM-50R	1589.18	1588.63	20	-	8	28	10.71	FP	1577.92
HM-51			25		5	25		#	
Waste Management Unit 12 Area									
HM-19	1582.11	1584.67		28.80			21.43		1563.24
HM-20	1586.14	1588.67	25	28.36	5	25	24.16	FP	1564.51
HM-24	1583.89	1586.21	25	28.10	5	25	22.6		1563.61
HM-28	1589.59	1592.71	35	41.90	15	35	28.92		1563.79
HM-31R	1588.67	1590.37	25	27.25	5	25	16.88		1573.49
HM-32	1586.43	1588.82	25	25.95	5	25		%	1588.82
HM-32R	1585.14	1586.38	30	29.10	8	28	9.97		1576.41
HM-33	1588.15	1591.33	25	26.60	5	25	13.94		1577.39
HM-52	1580.18	1582.63	30	20.41	10	30		%	
HM-52R	1579.25	1581.35	32	33.50	18	28	20.14		
HM-53	1579.11	1581.74	30	33.20	10	30	17.44		1564.30
HM-54	1578.08	1580.66	33	35.10	13	33	19.39		1561.27

* Purged Dry, no sample obtained, water level obtained

** Well Dry, No water level or sample obtained

Well Damaged or Destroyed

% Well Abandoned

NS Well not gauged or sampled, monitoring wells gauged and sampled during 2nd and 4th Quarters only

NE No well casing elevation data available

NA No well access

WD Well Damaged no top of casing elevation

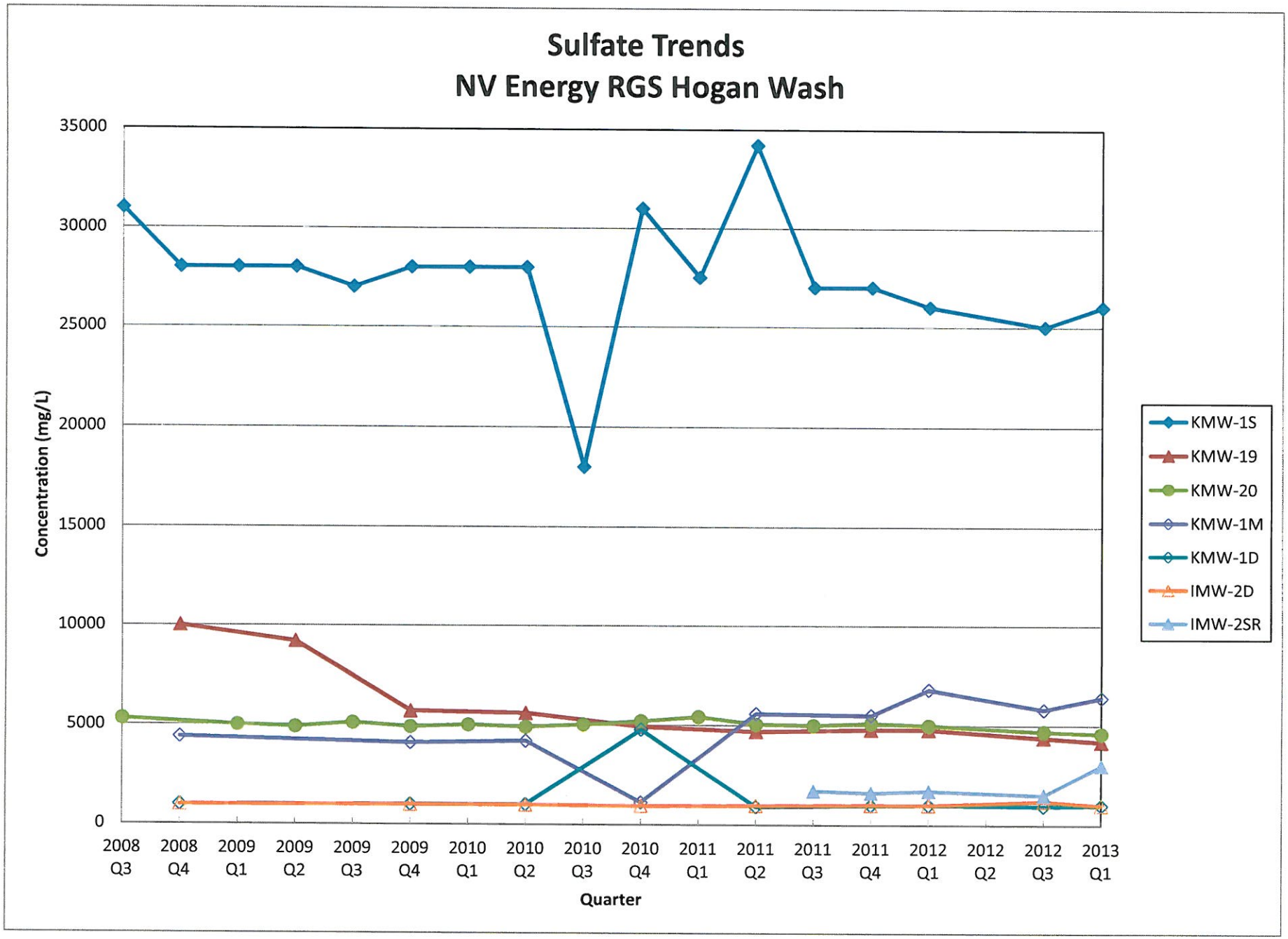
FP Free Product, GW Elevation not adjusted for specific gravity of free product

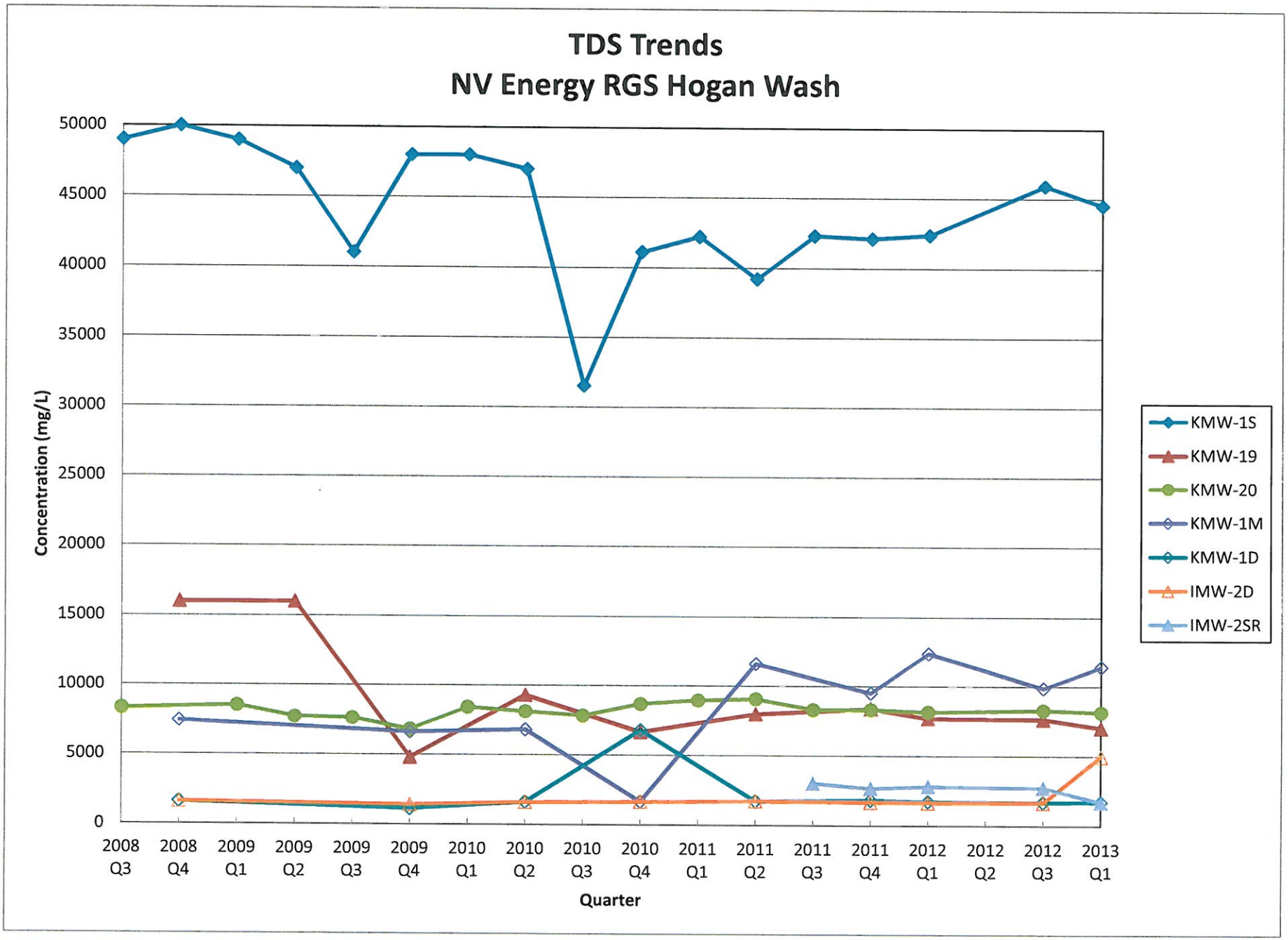
See Table 1A for Diesel Recovery Area groundwater elevations

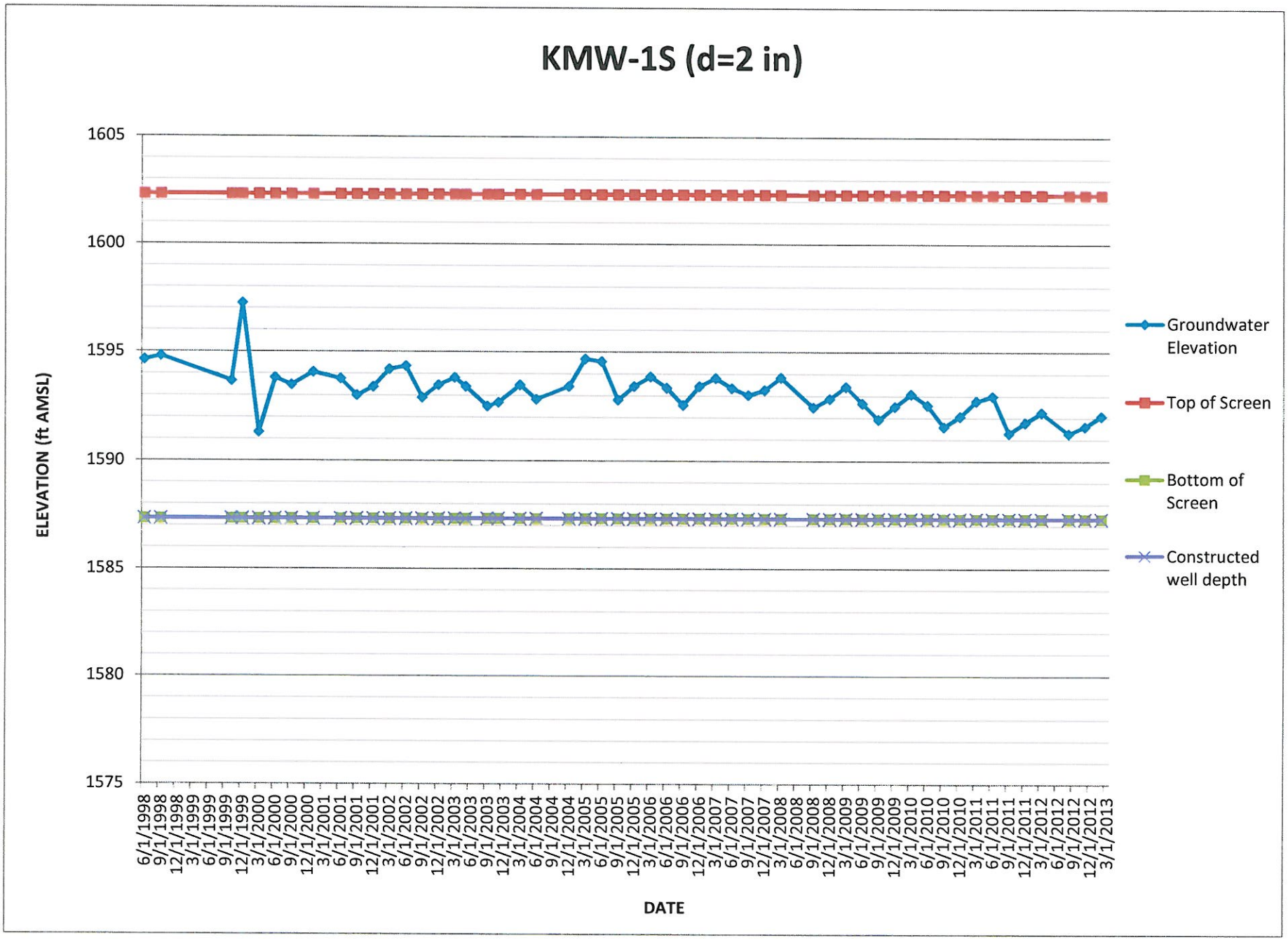
[1] Measured from ground elevation

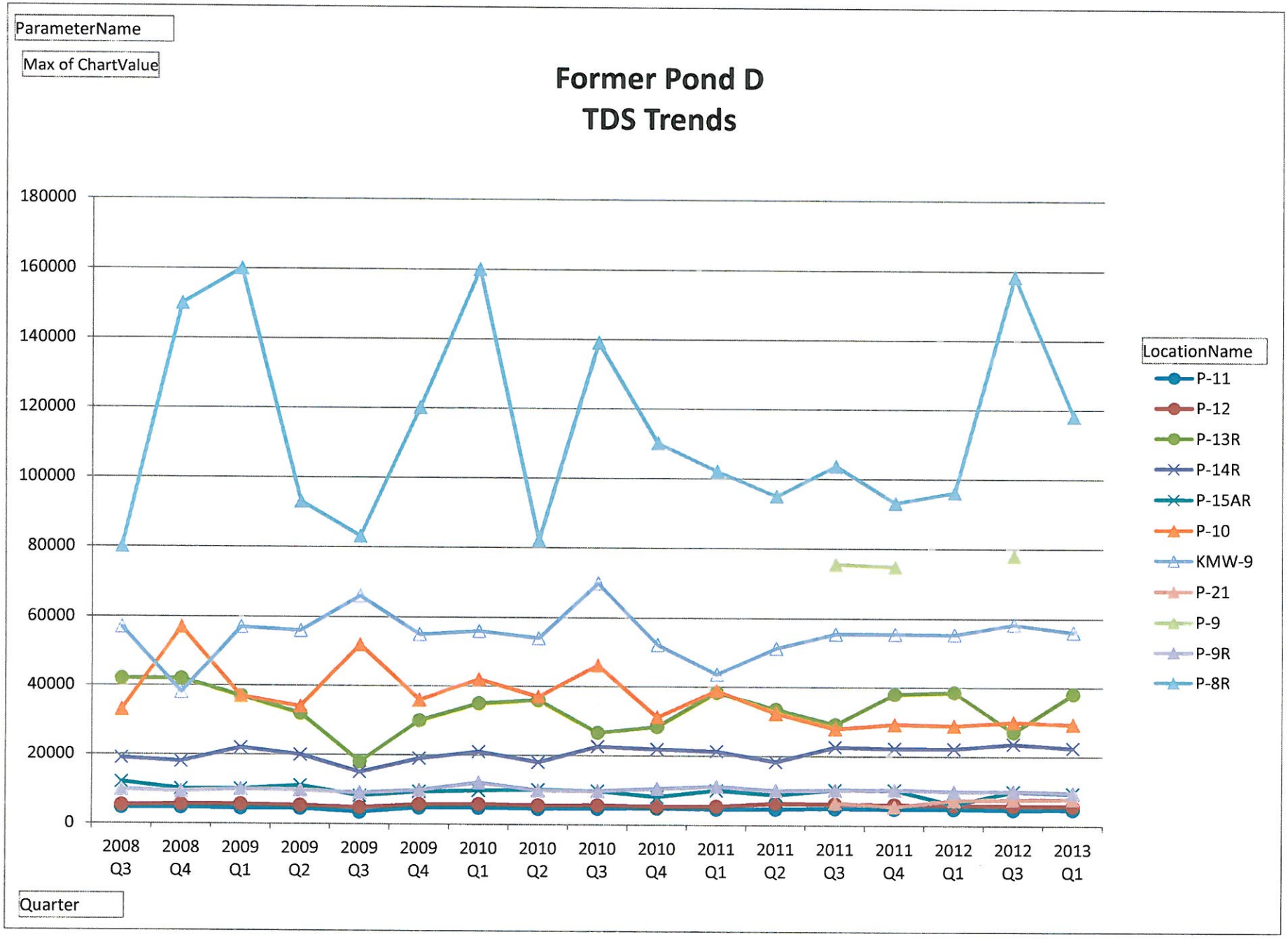
[2] Measured from top of casing

GRAPHS


Sulfate Trends
NV Energy RGS Hogan Wash
Concentration (mg/L)
35000
30000
25000
20000
15000
10000
5000
0
2008 Q3
2008 Q4
2009 Q1
2009 Q2
2009 Q3
2009 Q4
2010 Q1
2010 Q2
2010 Q3
2010 Q4
2011 Q1
2011 Q2
2011 Q3
2011 Q4
2012 Q1
2012 Q2
2012 Q3
2013 Q1
Quarter
KMW-1S
KMW-19
KMW-20
KMW-1M
KMW-1D
IMW-2D
IMW-2SR


TDS Trends
NV Energy RGS Hogan Wash
Concentration (mg/L)
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
2008 Q3
2008 Q4
2009 Q1
2009 Q2
2009 Q3
2009 Q4
2010 Q1
2010 Q2
2010 Q3
2010 Q4
2011 Q1
2011 Q2
2011 Q3
2011 Q4
2012 Q1
2012 Q2
2012 Q3
2013 Q1
Quarter
KMW-1S
KMW-19
KMW-20
KMW-1M
KMW-1D
IMW-2D
IMW-2SR


KMW-1S (d=2 in)
ELEVATION (ft AMSL)
1605
1600
1595
1590
1585
1580
1575
6/1/1998
9/1/1998
12/1/1998
3/1/1999
6/1/1999
9/1/1999
12/1/1999
3/1/2000
6/1/2000
9/1/2000
12/1/2000
3/1/2001
6/1/2001
9/1/2001
12/1/2001
3/1/2002
6/1/2002
9/1/2002
12/1/2002
3/1/2003
6/1/2003
9/1/2003
12/1/2003
3/1/2004
6/1/2004
9/1/2004
12/1/2004
3/1/2005
6/1/2005
9/1/2005
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
DATE
Groundwater Elevation
Top of Screen
Bottom of Screen
Constructed well depth


ParameterName
Max of ChartValue
Former Pond D
TDS Trends
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
2008 Q3
2008 Q4
2009 Q1
2009 Q2
2009 Q3
2009 Q4
2010 Q1
2010 Q2
2010 Q3
2010 Q4
2011 Q1
2011 Q2
2011 Q3
2011 Q4
2012 Q1
2012 Q3
2013 Q1
Quarter
LocationName
P-11
P-12
P-13R
P-14R
P-15AR
P-10
KMW-9
P-21
P-9
P-9R
P-8R