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Prepared by
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Date
October 30, 2015

ANNUAL REMEDIAL PERFORMANCE REPORT FOR CHROMIUM AND PERCHLORATE

NEVADA ENVIRONMENTAL RESPONSE TRUST SITE
HENDERSON, NEVADA

Annual Remedial Performance Report for Chromium and Perchlorate

Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

Nevada Environmental Response Trust (NERT) Representative Certification
I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

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Date: 10/29/15

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(Former Tronox LLC Site)
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Responsible Certified Environmental Manager (CEM) for this project

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.

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Date	**October 30, 2015**
Prepared by	**Ramboll Environ**
Description	**Annual Remedial Performance Report For Chromium and Perchlorate**

Project No **21-37300A**

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Attachment A
Phase III Groundwater Model Refinement

ACRONYMS AND ABBREVIATIONS

AMPAC	American Pacific Corporation
AWF	Athens Road Well Field
bgs	below ground surface
Bird Viewing Ponds	City of Henderson Bird Viewing Ponds
BMI	Black Mountain Industrial
CD	compact disc
CEM	Certified Environmental Manager
COH	City of Henderson
COP	Continuous Optimization Program
CZE Report	Capture Zone Evaluation Report
DVSR	Data Validation Summary Report
EDD	Electronic Data Deliverable
Envirogen	Envirogen Technologies, Inc.
ENVIRON	ENVIRON International Corporation
FBR	fluidized bed reactors
ft/ft	feet/foot
gpm	gallons per minute
GWETS	groundwater extraction and treatment system
GWTP	Groundwater Treatment Plant
ITRC	Interstate Technology and Regulatory Council
IWF	Interceptor Well Field
kWh	kilowatt hour
kWh/year	kilowatt hours per year
lbs/day	pounds per day
mg/L	milligrams per liter
NDEP	Nevada Division of Environmental Protection
Northgate	Northgate Environmental Management, Inc.
NPDES	National Pollution Discharge Elimination System
OSSM	Olin Chlor-Alkali/Stauffer/Syngenta/Montrose
Qal	Quaternary alluvium
Ramboll Environ	Ramboll Environ US Corporation

RIB	Rapid Infiltration Basin
RI/FS	Remedial Investigation and Feasibility Study
Site	Nevada Environmental Response Trust Site
SNWA	Southern Nevada Water Authority
SQL	Sample quantitation limit
SWF	Seep Well Field
TDS	total dissolved solids
TestAmerica	TestAmerica Laboratories, Inc.
Tetra Tech	Tetra Tech, Inc.
TIMET	Titanium Metals Corporation
Tronox	Tronox LLC
Trust	Nevada Environmental Response Trust
TSS	total suspended solids
UMCf	Upper Muddy Creek Formation
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
Veolia	Veolia Water North America
WBZ	water-bearing zones
WRF	Water Reclamation Facility

1. INTRODUCTION

In accordance with the Interim Consent Agreement between the Nevada Environmental Response Trust (the Trust) and the Nevada Division of Environmental Protection (NDEP), Ramboll Environ US Corporation (Ramboll Environ) submits this performance report to NDEP on behalf of the Trust for the Nevada Environmental Response Trust Site (the Site). The Site, which was formerly owned and operated by Tronox LLC (Tronox), comprises approximately 346 acres located within the Black Mountain Industrial (BMI) Complex in unincorporated Clark County and is surrounded by the City of Henderson, Nevada.

In conjunction with the settlement of Tronox's bankruptcy proceeding, the Trust took title to the Site and the groundwater extraction and treatment system (GWETS).[1] The effective date of the property transfer to the Trust and the Interim Consent Agreement between the Trust and NDEP was February 14, 2011. Tronox continues to conduct manufacturing operations on a portion of the Site leased from the Trust.

Envirogen Technologies, Inc. (Envirogen) currently operates and maintains the GWETS on behalf of the Trust.[2] TestAmerica Laboratories, Inc. (TestAmerica) acts as the Site's primary analytical testing laboratory.[3]

This report, covering the period July 2014 through June 2015, summarizes performance data for both the chromium and perchlorate removal programs based on sampling performed during this period. Specifically, this report describes:

- Regional groundwater conditions based on July 2014 through June 2015 groundwater levels;
- The hexavalent chromium remediation system (consisting of the on-site Interceptor Well Field [IWF], the off-site Athens Road Well Field [AWF],[4] and the related treatment systems) and its performance in carrying out the extraction and treatment of chromium;
- The perchlorate remediation system (consisting of the on-site IWF, the off-site AWF, the off-site Seep Well Field [SWF], the off-site seep capture sump[5], and related treatment systems) and its performance in carrying out the extraction and treatment of perchlorate;

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[1] Herein "GWETS" will be used to refer to the entirety of all systems and components of the groundwater extraction and treatment systems owned by the Trust, both on-site and off-site, including extraction well fields, treatment facilities, and groundwater conveyance systems.

[2] Veolia Water North America (Veolia), formerly US Filter Operating Services, operated the GWETS on behalf of Tronox beginning in 2003 and, after the Trust took title to the Site, continued to serve as the GWETS operator until July 24, 2013.

[3] Eaton Analytical, formerly MWH Laboratories, served as the Site's primary analytical testing laboratory prior to April 1, 2013.

[4] Although Athens Road has been renamed Galleria Drive, the Athens Road designation has been retained for the well field to maintain consistency with past reports.

[5] The seep was previously reported to have not flowed since April 2007. However, groundwater was identified in this area in early February 2015. Discussion of the current status of this issue is included in Section 2.3.

- The distribution of total dissolved solids (TDS) concentrations at the Site;
- The performance metrics,[6] which are used to evaluate the performance of the GWETS;
- An update on activities related to the Continuous Optimization Program (COP);
- An update to the groundwater model, as described in Attachment A; and
- Proposed future activities, including ongoing activities related to the COP and the NERT Remedial Investigation (RI).

Annual groundwater sampling (completed in the second calendar quarter) is a coordinated sampling event with several neighboring companies participating. Data from groundwater samples collected by neighboring companies are incorporated and evaluated along with data from the NERT site. For the 2015 Annual Remedial Performance Report for Chromium and Perchlorate (the "2015 Annual Performance Report"), the Trust received information from American Pacific Corporation (AMPAC), Olin/Stauffer/Syngenta/Montrose (OSSM), Southern Nevada Water Authority (SNWA), and Titanium Metals Corporation (TIMET); their data were integrated into the development of the groundwater elevation and plume maps presented in Plates 2, 6, 7, and 8. Water monitoring data obtained from the City of Henderson (COH) and Bureau of Reclamation were also used in analysis of surface water and groundwater interactions presented in Section 6.4.4.

Furthermore, in this submittal, data from the ongoing NERT RI were also incorporated into the plume map interpretations and used qualitatively in the performance evaluation. The scope of work for the RI was outlined in the Remedial Investigation and Feasibility Study (RI/FS) Work Plan (ENVIRON 2014b), approved by NDEP on July 2, 2014. RI activities include investigation of soil and groundwater data gaps and additional groundwater modeling efforts. Although RI data have not yet been submitted to NDEP, available analytical data for shallow zone wells installed and sampled as part of the RI were used in the plume map interpretations, and thus are displayed on Plates 6, 7, and 8. These data have been validated in accordance with NDEP requirements and will be presented as part of the comprehensive soil and groundwater data compilation to be included in the forthcoming RI Report. Supporting documentation for these data, including an EDD and DVSR, will also be provided with the RI report.

This report is provided in both hard copy and electronic forms. Where electronic files are referenced or information is stated as provided on compact disc (CD), this information is contained on the CD attached to the hard copy report. Appendix A contains Table A-1, which has five quarters of analytical data from the Site, and Table A-2, which includes second quarter 2015 analytical data received from the other BMI Complex Parties. The analytical lab reports for the first and second quarter 2015 groundwater monitoring events are also included in Appendix A (on the report CD). Appendix B contains well data

[6] Performance metrics were developed as part of the 2013 GWETS Optimization Work Plan (ENVIRON 2013d), approved by NDEP on December 3, 2013 (NDEP 2013c). These performance metrics differ from the metrics being utilized as part of NERT's monthly GWETS operations reporting, which were developed by Tetra Tech and included in their Enhanced Operational Metrics Proposal dated August 20, 2014 (Tetra Tech 2014a).

sheets for the monitoring program wells, which show groundwater elevations, perchlorate concentrations, and chromium concentrations over time for each well, in addition to well construction details and the location of the UMCf contact. In addition, if the well is an extraction well, the pumping rate, specific capacity, and estimated mass removal of perchlorate and chromium over time are shown. Appendix C contains the field records from July 2014 to June 2015 (on the report CD). Appendix D contains the Data Validation Summary Report (DVSR) (on the report CD). Appendix E contains the Electronic Data Deliverable (EDD). The EDD includes an Access© compatible data file (on the report CD) containing the analytical results from the period July 2014 to June 2015, and an Access© compatible data file (on the report CD) containing water level monitoring data from the period July 2014 to June 2015. Attachment A contains the Phase III Groundwater Model Refinement Report, which describes further refinement of the steady state groundwater model.

2. AREA GROUNDWATER CONDITIONS

The locations of the groundwater extraction well fields are shown on Figure 1a, a map covering the area between the Site and Las Vegas Wash. Figure 1b is a guide showing the locations of various well transects that are discussed in subsequent sections of the report. Plate 1 shows the locations of all active wells in the vicinity. Discussion of the overall groundwater conditions follows below. The remainder of this section discusses the hydraulic performance of each of the well fields, starting with the on-site extraction well field, the IWF, and proceeding northward to the successively downgradient extraction well fields, the AWF and the SWF.

Ground surface elevations across the Site range from 1,677 to 1,873 feet above mean sea level. The ground surface across the Site generally slopes downward to the north at a gradient of approximately 0.02 feet per foot (ft/ft). Off site to the north, the topographic surface continues at the same gradient to approximately Sunset Road, at which point it flattens to a gradient of 0.01 ft/ft to the Las Vegas Wash. The shallow groundwater gradient generally mimics the surface topography.

The NDEP has defined three water-bearing zones (WBZs) of interest in the vicinity of the Site, including the Shallow, Middle, and Deep WBZ.[7] The Shallow WBZ, which extends to approximately 90 feet below ground surface (bgs), is unconfined to partially confined, and is considered the water table aquifer. Unless otherwise stated, discussions of groundwater in this report refer to the Shallow WBZ, which contains the saturated portions of the Quaternary alluvium (Qal) and the uppermost portion of the Upper Muddy Creek Formation (UMCf).

Investigations of the Middle WBZ at the Site and surrounding sites indicate, with a few exceptions, a vertical upward gradient between the Middle and Shallow Zones that generally increases with depth. In the vicinity immediately downgradient of the IWF, vertical head differences between Middle and Shallow Zone wells ranged from 5 feet to 13 feet during the reporting period, with calculated vertical gradients ranging between 0.05 and 0.2 ft/ft in the upward direction. Upward vertical gradients were generally more prominent near the western and central portions of the barrier wall. At the AWF, two wells are screened within the UMCf, PC-134A and PC-137, to depths of 70 and 73.6 feet, respectively.[8] During the reporting period, the vertical head differences measured between PC-134A and PC-137 and corresponding wells screened within the Qal were 0.7 feet and 1.7 feet, respectively, with very slight downward vertical gradients of 0.03 and 0.05 ft/ft. Vertical gradients have not been evaluated near the SWF due to a lack of wells screened below the Qal.

During the current reporting period, shallow groundwater was generally encountered in on-site wells between 20 and 50 feet bgs and is generally deepest in the southernmost portion of the Site. North of the Site, beyond Boulder Highway, shallow groundwater is

[7] NDEP guidance for the water-bearing zones can be viewed at http://ndep.nv.gov/bmi/docs/090106_hydro_litho.pdf

[8] Groundwater wells have been recently installed deeper within the UMCf in this area as part of the RI. The initial data from these wells suggest that an upward vertical gradient exists deeper in the UMCf. Future submittals will include data from these deeper wells.

generally encountered between four and 30 feet bgs, becoming shallower as it approaches the Las Vegas Wash.

Plate 2, the *Potentiometric Surface Map: Shallow Water-Bearing Zone*, *Second Quarter 2015,* is based on groundwater elevation measurements collected from the Trust, AMPAC, OSSM, SNWA, and TIMET wells during second quarter 2015. The potentiometric surface map for the Shallow WBZ was created by interpolating measured water levels at shallow zone wells onto a grid using KT3D_H20[9] (v3.0) and then contouring the gridded data using ArcGIS Spatial Analyst. KT3D_H20 is a software program specifically designed for interpolating water level data using kriging, which combines information about sources and sinks with water levels measured at wells.[10] The major sources and sinks of water that were incorporated into the interpolation using KT3D_H20 were: All three Trust-owned extraction well fields, OSSM extraction wells and injection trenches, TIMET extraction and injection wells, AMPAC extraction wells, and the COH Bird Viewing Ponds.

Groundwater flow direction at the Site is generally north to northwesterly, whereas north of the Site, the direction changes slightly to the north-northeast. This generally uniform flow pattern may be modified locally by subsurface alluvial channels cut into the underlying UMCf; the on-site bentonite-slurry groundwater barrier wall (the "barrier wall"); localized areas of recharge from on-site storm water retention basins (discussed below); off-site recharge from the COH Bird Viewing Ponds; groundwater extraction from the IWF, AWF, and SWF; and nearby groundwater extraction conducted by OSSM, TIMET, and AMPAC. Historically, on- and off-site artificial groundwater highs or "mounds" were observed around the on-site recharge trenches[11] and the COH Water Reclamation Facility (WRF) Rapid Infiltration Basins (RIBs)[12]; however, both of these have ceased operation.

During the 2011-2012 interim soil removal action, the Site was graded such that storm water would be retained on-site. Two retention basins and a drainage channel were constructed: 1) the Central Retention Basin, located approximately 800 feet south (upgradient) of the IWF and 2) the Northern Retention Basin, located approximately 300 feet north (downgradient) of the IWF. A shallow channel located along the eastern side

[9] Karanovic, M., Tonkin, M., and Wilson, D. 2009. KT3D_H2O: A Program for Kriging Water Level Data Using Hydrologic Drift Terms. Ground Water, Vol. 47, N0. 4:580-586.

[10] One limitation of KT3D_H2O is that it cannot represent a barrier to groundwater flow, such as the barrier wall downgradient of the IWF. In the vicinity of the IWF, the barrier wall has a significant effect on the potentiometric surface, so instead of KT3D_H2O a different approach was used to generate contours for the inset map showing the IWF. The potentiometric surface near the IWF was estimated by fitting the trend in water levels using an analytical element model and then kriging the well measurements after removing the trend. The simple analytic element model included the extraction wells at the IWF and the barrier wall, and was developed using the TimML software v3.4 (a multiaquifer analytical element model). This approach is essentially equivalent to the KT3D approach, but allows the inclusion of the barrier wall. The final potentiometric surface was calculated as the sum of the trend obtained from the analytical element model and the output from kriging of the detrended data. The resulting grid of interpolated water levels was contoured using ArcGIS Spatial Analyst in the same way as for the other areas.

[11] Reinjection of stabilized Lake Mead water ceased in September 2010 when the recharge trenches were removed to accommodate soil excavation and remediation activities at the Site. They have not been replaced.

[12] Since the completion of the COH WRF in 2008, discharge of treated effluent to the Pabco Road RIBs has ceased; however, groundwater mounding events continued to be observed into late 2011, although lessening in intensity. The most recent mounding events are likely attributable to the operation of the COH Bird Viewing Ponds located west of the RIBs.

of the Site connects the two retention basins and conveys overflow from the Central Retention Basin into the Northern Retention Basin. Surface runoff from on-site areas and a majority of water collected by the storm sewer network within the Tronox-leased area are directed to the Central Retention Basin. Given the topography along the western property boundary, there is the potential for a small volume of storm water to enter the Site from the west through surface flow, which is collected in topographic depressions on the Site and/or in the Central Retention Basin. Surface runoff from north of the former Beta Ditch is directed to the Northern Retention Basin. The design capacities of the Central and Northern Retention Basins are approximately 1.3 and 1.2 million cubic feet, respectively (RCI Engineering 2010).

The retention basins have altered the location and extent of infiltration at the Site and thereby have had significant effects on groundwater conditions. Following a series of storm events between August and October 2012, storm water collected in the Central Retention Basin altering local infiltration pathways and influencing downgradient groundwater conditions at the IWF, the effects of which have been discussed previously beginning with the 2012 Semi-Annual Performance Report (ENVIRON 2013a). The effects included elevated water levels in and around the IWF which resulted in the mobilization of perchlorate previously bound to vadose zone soils. Mobilized perchlorate migrated to underlying groundwater and was subsequently captured in the IWF, resulting in increased perchlorate mass removal from the Site. It is anticipated that similar effects may be seen in the future following large storm events.

During the current reporting period ending June 2015, groundwater elevation trends at the Site were relatively consistent with the previous five quarters. Groundwater elevations in the vicinity of the barrier wall (described below in Section 2.1), which were elevated during portions of 2013, generally have returned to pre-November 2012 levels.

2.1 Interceptor Well Field Area

The location of the IWF area is shown on Figure 1a. A barrier wall was constructed at the Site in 2001 as a physical barrier across the higher concentration portion of the perchlorate/chromium plume. The barrier wall is approximately 1,600 feet in length and 60 feet deep and constructed to tie into approximately 30 feet of the UMCf. The IWF consists of a series of 27 active groundwater extraction wells that are situated south (upgradient) of the barrier wall.

The average discharge rate for each IWF well active during July 2014 to June 2015 is shown in Table 1, along with the annual average discharge rates from the four previous years. The combined discharge of the IWF averaged 68.7 gallons per minute (gpm) from July 2014 to June 2015. As seen in Table 4, average IWF extraction rates decreased from 71.9 gpm in July 2014 to 67.9 gpm in November 2014. Average extraction increased to 71.5 gpm in December 2014 following extraction rate adjustments as part of the 2013 GWETS Optimization Project, before decreasing to 64.7 gpm in June 2015 due primarily to various outages and maintenance activities involving wells I-AA, I-V, I-X, and I-Z (Tetra Tech 2015c). Over the last five years of operation, the combined discharge of the IWF averaged 68.3 gpm. For comparison, in June 2001, prior to the installation of the barrier wall, the 22 wells comprising the IWF at that time averaged a combined discharge of 24.7 gpm.

Groundwater recharge trenches located north (downgradient) of the barrier wall were originally installed to receive extracted and treated groundwater, but were used in the more recent past to inject stabilized Lake Mead water into the subsurface to replace water extracted by the IWF beginning in 1999. Injection ceased in September 2010 when the recharge trenches were removed to accommodate soil excavation and removal activities at the Site.

Plate 3, *West-East Hydrogeologic Cross Section A-A' – Interceptor Well Field, Second Quarter 2015,* shows water levels in the pumping interceptor wells and adjacent monitoring wells during May 2015, and the relationships between the pre-pumping and current groundwater levels in the vicinity of the IWF. The cross section also shows the series of narrow, shallow alluvial channels separated by UMCf ridges, some of which are above the current groundwater level. In general, water elevations in monitoring wells near the IWF in May 2015 have returned to levels seen prior to the late-2012 storm events. As seen in Plates 2 and 3, water levels in the pumping wells indicate that the individual wells are creating localized groundwater depression zones extending to the Qal/UMCf interface.

Figures 2a through 2f present historical (January 2006 to June 2015) water elevations for selected pairs of monitoring wells located on opposite sides of the barrier wall. As shown on the figures, between July 2014 and June 2015, water levels in wells directly downgradient (north) of the barrier wall (wells M-69 through M-74) were generally five to twelve feet lower than water levels in corresponding wells upgradient (south) of the wall (wells I-Y/M-167, M-55, M-56, M-58, M-67, and M-68). The large drop in measured groundwater elevations across the barrier wall indicates that the wall is generally an effective barrier to shallow groundwater flow. Further analysis of barrier wall performance is presented in Section 6.4.7.

Figures 2a through 2f show that, beginning in January 2006, water levels in wells downgradient of the barrier wall showed a continual decline until February 2008 when refurbishment of the recharge trench was completed allowing increased recharge rates and a corresponding rise in water levels. Peaks in water levels in downgradient wells observed in July 2008 and May 2010 (Figures 2a through 2c, and to a lesser extent on Figures 2d through 2f) are in response to increased recharge rates during those times. These figures also show a significant decline in water elevations in the downgradient wells beginning around September 2010, when the recharge trenches were shut down and groundwater mounding associated with the recharge began to dissipate.

As seen on Figures 2a through 2d, groundwater elevations downgradient of the barrier wall continued to decline during the current reporting period and most are now consistent with pre-November 2012 levels, the continuation of a trend that began in approximately September 2013. Figures 2e and 2f show increases in groundwater elevations in both downgradient and upgradient wells at the east end of the barrier wall beginning in late 2013 to early 2014, with the response first seen in the downgradient wells. The timing corresponds to the installation of a new barrier wall by TIMET at the northern edge of their property. Monitoring wells M-129 and M-130, which are located east of the NERT barrier wall and thus closer to TIMET's barrier wall, are sampled annually and have also shown increasing groundwater elevations since installation of TIMET's barrier wall.

Between 2013 and 2015, groundwater elevations have increased by 2.1 and 0.87 feet in M-129 and M-130, respectively. Therefore, it appears that the increases in groundwater elevations seen at the east side of the NERT property are likely the result of groundwater mounding upgradient of TIMET's newly-constructed barrier wall. Although operation of TIMET's barrier wall and extraction well system do not appear to have changed significantly during the current reporting period, groundwater elevations downgradient of the barrier wall decreased by approximately 0.5-1 feet during 2015.

2.2 Athens Road Well Field Area

The AWF is approximately 8,200 feet north (downgradient) of the barrier wall and the IWF. The AWF was constructed as a series of 14 groundwater extraction wells screened in the Qal at seven paired well locations that span approximately 1,200 feet across two alluvial paleochannels located on either side of an UMCf ridge. The AWF was completed in March 2002 and continuous pumping began in mid-October of that year. The well pairs act in concert, with one well pumping while the adjacent well is used to measure water levels and monitor the effect of pumping on the aquifer. In September 2006, a fifteenth standalone well, ART-9, began full-time operation after groundwater elevations at the AWF dropped below a level where ART-6/6A could be effective. Wells ART-7B and PC-150 were connected to the AWF during the current reporting period as part of the 2013 GWETS Optimization Project and began operating as extraction wells in October 2014 and November 2014, respectively. These two new wells were designed to address potential capture gaps identified as part of the 2011-2012 Annual Performance Report (ENVIRON 2012). Further analysis of AWF performance following implementation of the 2013 GWETS Optimization Project was described in Attachment A of the 2014 Semi-Annual Performance Report.

The average discharge rate for each AWF pumping well from July 2014 to June 2015 is shown in Table 2, along with the average annual discharge rates for the previous four years. The combined discharge rate of the AWF averaged 285.6 gpm from July 2014 to June 2015, which represented an increase in extraction rate when compared with the previous four years. As seen in Table 4, AWF extraction rates gradually increased to 292.8 gpm in September 2014 followed by a decrease to 277.5 gpm in November 2014 due to several outages involving ART-9 and various adjustments made in response to these outages (Tetra Tech 2015b). Extraction rates increased to 283.7 gpm in December 2014 following activation of PC-150 and ART-7B as part of the 2013 GWETS Optimization Project. Monthly average extraction rates were generally consistent through the end of the reporting period, ranging from 283.6 to 287.4 gpm. Over the last five years of operation, the combined discharge of the AWF has averaged 278.3 gpm.

Plate 4, *West-East Hydrogeologic Cross Section B-B' – Athens Road Well Field, Second Quarter 2015,* shows the current water levels in the AWF pumping wells and adjacent monitoring wells, and the relationships between the pre-pumping and current groundwater levels in the vicinity of the AWF. As shown on Plate 4, the extraction wells in the AWF primarily target two alluvial sub-channels separated by a ridge of the UMCf. Groundwater levels are currently much lower than they were in 2002 before pumping began, and the Qal overlying the UMCf ridge has been partially dewatered. Historical groundwater level trends for selected wells are shown on Figure

3. In general, the water elevations in the AWF are consistent with water elevations from one year ago.

Groundwater levels are currently much lower than they were in 2002 before pumping began, and the Qal overlying the UMCf ridge has been partially dewatered. Historical groundwater level trends for selected wells are shown on Figure 3. In general, the water elevations in the AWF are consistent with water elevations from one year ago.

2.3 Seep Well Field Area

The SWF and the seep capture sump,[13] located approximately 4,500 feet north (downgradient) of the AWF near the Las Vegas Wash, are shown on Figure 1a. When pumping began in July 2002, the SWF consisted of three extraction wells (PC-99R2/R3, PC-115R, and PC-116R) situated over the deepest part of the alluvial channel and a seep capture sump designed to capture an intermittent surface seep. Five additional wells (PC-117, PC-118, PC-119, PC-120, and PC-121) were completed in February 2003 and an additional well (PC-133) was completed in December 2004. Presently, the SWF consists of 10 extraction wells—two of which (PC-99R2 and PC-99R3) are connected and operate as one combined well. The wells comprising the SWF are screened across the full thickness of the Qal and across the deepest portion of an alluvial channel.

The SWF has been effective in lowering groundwater levels in the vicinity of the seep; as a result, the surface seep reportedly had not flowed since April 2007, although the location was not regularly inspected as part of the groundwater monitoring program. During the current reporting period, on February 4, 2015, NDEP reported that groundwater was discharging to the surface from the eastern side of the seep capture sump and overtopping the sump. Inspection by NERT personnel indicated that water was overflowing the sump at a rate of approximately 1.5 gpm. As an interim response, water was removed from the seep capture sump using a vacuum truck and pumping rates were subsequently increased at the east end of the SWF (wells PC-133, PC-117, PC-116R, and PC-99R2/R3) in order to lower the water table in the vicinity of the seep capture sump and reduce the potential for future discharge from the sump. Water stopped overtopping the seep capture sump approximately four days after extraction rates were increased, and monitoring data from nearby wells PC-96 and PC-97 indicates that the increased extraction rates had lowered the water table by approximately 0.4-0.5 feet. After one month of continuous increased pumping, water levels dropped to three inches below the rim of the seep capture sump.

The surface flow from the seep capture sump is likely the result of seasonal changes in the water table elevation, which may have been further aggravated by recent tamarisk removal efforts. On April 7, 2015, the Trust submitted a memo to NDEP detailing the interim response actions near the seep and requesting permission to discontinue interim response measures due to the current hydraulic limitation of the GWETS and the anticipated implementation of the COP (NERT 2015). NDEP approved discontinuation of the interim measure on April 9, 2015 (NDEP 2015b) and SWF extraction rates were returned to normal on April 22, 2015.

[13] The seep capture sump was reportedly last operated in April 2007 and was decommissioned (pump removed and piping blocked) shortly thereafter. Currently only the seep sump remains.

The average discharge rate for each SWF pumping well during July 2014 to June 2015 is shown in Table 3, along with the discharge rates for the previous four years. The combined discharge rate of the SWF averaged 536.0 gpm during the current reporting period, which is higher than combined pumping rates between July 2010 and June 2012 and between July 2013 and June 2014. Average monthly extraction rates during the current reporting period ranged from 517 gpm to 595.8 gpm, with the highest extraction rates observed in February and March 2015 due to the seep capture sump surface flow interim response measures. Over the last five years of operation, the combined discharge of the SWF averaged 532.3 gpm.

Plate 5, West-East Hydrogeologic Cross Section C-C' – Seep Well Field, Second Quarter 2015, shows the current water levels in the SWF pumping wells and adjacent monitoring wells, and the relationships between the pre-pumping and current groundwater levels in the vicinity of the SWF. Plate 5 shows that the alluvial channel in the SWF is much less incised into the underlying UMCf than at the AWF, and that the configuration of the alluvial channel is a broad shallow feature about 800 feet wide and averaging about 45 feet thick. In May 2001, before pumping began, the groundwater level in the area was shallow and would intersect the surface each winter forming a seep. Based on water level measurements collected in May 2015, water levels in the SWF are generally five to ten feet lower than pre-pumping levels and consistent with historical trends with the exception of extraction well PC-133 where the measured water levels have remained elevated from May 2014 through June 2015. Groundwater elevations in nearby monitoring wells (PC-92 and PC-91) were approximately 5 feet lower than the elevation measured in PC-133 during May 2015. In addition, as discussed in Section 4.1.3, concentrations of perchlorate have fluctuated recently in PC-133 without an apparent cause. The effort to quantify flows into the SWF, as described at the end of Section 6.4.4, including deployment of transducers and sampling for additional geochemical parameters, will be used as an opportunity to investigate the potential reasons for the inconsistencies observed in PC-133.

Groundwater levels at the SWF are currently lower than they were in 2001, before pumping began. Historical groundwater level trends for selected wells are shown on Figure 4. Since the middle of 2012, groundwater elevations at the SWF appear to be trending higher, although seasonal patterns are also apparent.

2.4 Groundwater Treatment Overview

Treatment of chromium-contaminated groundwater (primarily from the IWF) occurs via the on-site Groundwater Treatment Plant (GWTP),[14] which chemically reduces hexavalent chromium and removes total chromium via chemical precipitation. A small ferrous sulfate drip system, which was used at the AWF lift station (Lift Station #3) to treat chromium present (at lower concentrations) in groundwater extracted by the AWF, ceased operation in August 2014 after it was determined that the low concentrations of hexavalent chromium from the AWF did not require treatment ahead of the fluidized bed reactors (FBRs) (Tetra Tech 2014b). This change in operation, which is further discussed

[14] By convention, the "GWTP" consists of only the on-site hexavalent chromium treatment plant. The name pre-dates the installation of any of the perchlorate treatment systems and related components.

in Section 3.2, does not appear to have had a significant effect on overall GWETS performance.

Treatment of perchlorate-contaminated groundwater from all well fields occurs via the on-site FBRs, which biologically remove perchlorate as well as chlorate, nitrate, and trace concentrations of residual chromium. A simplified process flow diagram is presented on Figure 5. Monthly extraction rates for individual IWF, AWF, and SWF wells are presented in Table 4.[15] Routine maintenance is completed as needed at the GWTP and FBRs. The performances of the chromium and perchlorate treatment systems are described in Sections 3.2 and 4.2, respectively.

[15] The average total influent reported in Table 4 differs from the average total effluent of the GWETS. The discrepancy is the result of flow into and out of GW-11, evaporation from GW-11, and additions of stabilized Lake Mead water, which are used for various maintenance procedures. Perchlorate removal calculations are based on the extraction rates at each individual extraction well for the IWF, AWF, and SWF.

3. CHROMIUM CAPTURE AND TREATMENT

The components of the chromium capture system consist of the IWF, the barrier wall, and the AWF. As discussed previously, recharge trenches located downgradient of the barrier wall were formerly part of the chromium remediation system. The locations of these components are shown on Figure 1a. For the 12-month period lasting from July 2014 to June 2015, a total of approximately 2,480 pounds of chromium were captured and removed from groundwater. The treatment of chromium-contaminated groundwater is discussed in Section 3.2.

3.1 Chromium Plume Configuration

Table A-1 in Appendix A contains analytical and groundwater elevation data for the last five quarters. Table A-2 in Appendix A contains second quarter 2015 analytical and groundwater elevation data received from AMPAC, OSSM, TIMET, and SNWA. Appendix B contains well data sheets showing chromium concentration trends (as well as perchlorate concentrations and groundwater elevations) in individual wells over time. Plate 6 presents an isoconcentration map of the chromium plume from its on-site source northward to the Las Vegas Wash. In general, the current isoconcentration map is similar to the 2014 map but includes some differences due to the following:

- Additional data collected by other parties not evaluated in previous years have been included in this year's plume map, which has altered the plume from previous interpretations.
- As discussed in Section 1, available shallow groundwater data collected as part of the RI have been included to address data gaps from previous interpretations. RI data as shown on Plate 6 have been validated and will be formally submitted, along with supporting database and laboratory documentation, as part of the upcoming RI Report.
- As part of the COP, a subsurface conditions evaluation was performed in part to define the contact surface between the UMCf and the Qal, as discussed in Section 6.6. This evaluation resulted in a reinterpreted configuration of the paleochannel network, the effects of which have altered the current plume map.
- The chromium isoconcentration map was initially created by interpolating log-normalized concentrations using kriging in ArcGIS. Analytical data collected as part of the RI were then qualitatively evaluated to identify spatial trends in areas with data gaps. Identified trends were incorporated into the isoconcentration map by digitizing hand-drawn contours, further altering the plume from previous interpretations.
- Chromium concentrations downgradient of PC-150 have decreased compared to 2014 data, altering the shape of the plume in this area.
- On-site chromium concentrations, particularly in the vicinity of the barrier wall, are slightly lower than they were in 2014, resulting in alterations to the plume in this area.

Based on the second quarter 2015 chromium analytical results, the portion of the chromium plume with the highest concentrations remains south (upgradient) of the barrier wall where it is captured by the IWF. In this area, the highest chromium concentrations in shallow groundwater continued to be centered near the middle of the IWF in well I-T (25 milligrams per liter, or mg/L). North of the barrier wall, the highest

total chromium concentration was 9.4 mg/L in groundwater collected from well M-73, located north of wells I-I and I-Z. North of the former recharge trenches, the highest total chromium concentration detected in second quarter 2015 was 3.6 mg/L in groundwater collected from well PC-136, located at the AWF and screened within an alluvial sub-channel east of the UMCf ridge. This concentration is slightly lower than the concentration measured in second quarter 2014 (5.1 mg/L), representing generally stable year-over-year conditions in this portion of the plume. Total chromium concentrations in groundwater adjacent to well M-12A, located immediately north of Unit Building 4 on the upgradient edge of the main plume, have been generally declining since 2002 and have remained stable over the last year. At the end of the current reporting period, the total chromium concentration in groundwater collected from M-12A was 10 mg/L compared with 25 mg/L in May 2002.

In general, the overall lower concentrations observed in on-site wells located downgradient of the barrier wall compared with those upgradient indicate that the IWF is an effective barrier to migration of the main portion of the chromium plume. The predominantly upward vertical gradients and the fact that the barrier wall is keyed into the UMCf are important factors that appear to limit flow beneath the barrier.

3.1.1 Interceptor Well Field Area

The IWF captures the highest concentrations and the main portion of the groundwater plume located downgradient of the on-site source areas. Figure 6 shows the concentrations of total chromium in groundwater extracted by the IWF pumping wells over the last five quarters. Chromium concentrations during the current reporting period were generally similar to previous quarters, with the exception of an anomalous result at well I-G in second quarter 2015.

Chromium concentration data from groundwater samples collected from select wells (M-11, M-23, M-36, M-38, M-72, and M-86)[16] over time are presented in Figure 7. Groundwater samples collected from monitoring well M-11, located immediately downgradient of the former primary source area (Unit Buildings 4 and 5), illustrate that concentrations have remained relatively stable over the last ten years with a concentration of 1.4 mg/L at the end of the current reporting period. Total chromium concentrations measured in groundwater from well M-38, located upgradient of the IWF, were consistent with recent concentrations observed over the last year (17 mg/L in May 2015). The concentration of chromium in groundwater collected from well M-72, located between the barrier wall and former recharge trenches, has varied between 5.3 and 9.8 mg/L during the current reporting period, with a value of 8.8 mg/L measured in May 2015. Concentrations in M-72 have increased slightly since approximately November 2010, following the shutdown of recharge trenches in September 2010. This suggests that the former recharge trenches either diluted concentrations in these wells, prevented lateral migration through or around the barrier wall, or mitigated the upward diffusion of

[16] These wells were selected because they are the five "Consent Order Appendix J Wells" that were historically presented for evaluating performance of the chromium mitigation program. Figure 7 has historically presented data for well M-36; however, M-36 was damaged in June 2013. Data collected from nearby well M-38 is presented in Figure 7 to replace M-36.

chromium from the UMCf. Further evaluation of the barrier wall's effectiveness is presented in Section 6.4.7.

3.1.2 Athens Road Well Field

The AWF is designed to intercept residual chromium in groundwater downgradient of the IWF and the Site. Based on total chromium concentrations in groundwater downgradient of the AWF, the system is operating effectively; nonetheless, as described in Attachment A of the 2014 Semi-Annual Performance Report, wells ART-7B and PC-150 were activated as extraction wells during the current reporting period to enhance capture. Downgradient of the AWF in the Athens Road Piezometer or "ARP" well line, the highest measured concentration of total chromium during the second quarter 2015 sampling event was 0.27 mg/L in well ARP-6B. Chromium concentrations in MW-K4, located further west, are typically equal to or greater than the concentrations in ARP-6B. However, chromium concentrations in MW-K4 decreased over the last five quarters to a low of 0.068 mg/L in May 2015.

Figure 8 shows the concentrations of total chromium across the area of the eight AWF pumping wells in addition to monitoring wells PC-18, PC-55, PC-122, PC-148, and PC-149 over the last five quarters, where data are available. PC-148 and PC-149 are monitoring wells that are situated across the top of the UMCf ridge with screened intervals primarily within the UMCf. As shown on Figure 8, chromium concentrations in the western sub-channel (represented by wells west of PC-149) have been low relative to those in the eastern sub-channel (represented by wells east of PC-148). An additional extraction well, ART-9, was installed in this area in 2006 to capture this narrow channel of chromium-impacted groundwater.

3.1.3 Seep Well Field

Wells in the SWF continue to generally contain less than 0.01 mg/L total chromium. Total chromium concentrations east of the SWF are slightly higher, but remained relatively stable over the reporting period. For example, the concentration of total chromium in groundwater collected from monitoring well PC-94, located east of the well field, was measured at 0.037 mg/L in second quarter 2015, greater than the concentration in groundwater at any of the SWF extraction wells (the highest chromium concentration detected in the SWF during second quarter 2015 was 0.0040 J mg/L in well PC-99R2/R3).

3.2 Chromium Treatment System

The operation and maintenance of the chromium treatment system, as well as the rest of the GWETS, has been performed by Envirogen since July 25, 2013. Prior to that date the GWETS was operated and maintained by Veolia.

Table 5 contains the July 2014 to June 2015 process treatment data from the on-site GWTP. The treated groundwater from the GWTP is pumped to the equalization tanks or GW-11,[17] where it is combined with water from the off-site groundwater collection

[17] GW-11 operated as an equalization basin from March 27 to August 6, 2014. When not operating as an equalization basin, groundwater enters the equalization tanks directly from Lift Station 2 and the GWTP. GW-11 started serving as an equalization basin again on January 6, 2015.

systems (AWF and SWF). The blended water flows through activated carbon beds before being pumped to the FBRs for treatment to remove perchlorate, chlorate, nitrate, and residual chromium.

As shown in Table 5, the total monthly chromium inflow concentration to the GWTP for this reporting period has been relatively stable in the range of 7.4 to 8.2 mg/L, which is slightly lower than the range of 8.0 to 10.6 mg/L reported for July 2013 to June 2014. The chemical reduction of hexavalent chromium and removal of total chromium via the GWTP during the reporting period has been consistently effective. The average monthly total chromium outflow concentrations for the last 12 months ranged from 0.23 to 1.31 mg/L. The average monthly hexavalent chromium outflow concentrations during the reporting period ranged from non-detect (<0.00025) to 0.0063 mg/L. As seen in Table 5, for the period between July 2014 and June 2015, approximately 2,270 pounds of chromium were removed from groundwater by the GWTP.

A trace amount of chromium is also removed in the FBRs. Results of total chromium analysis from weekly FBR influent and effluent samples are presented in Table 6. Based on an average influent total chromium concentration of 0.071 mg/L and an average flow rate of 845 gpm,[18] the FBRs were receiving about 0.72 pounds of chromium per day from the equalization tanks.

As previously discussed, until August 2014 a small ferrous sulfate drip system was used to treat the relatively low concentrations of chromium present in groundwater extracted at the AWF. Chromium concentrations in the FBR influent appear to have increased slightly since operation of the ferrous sulfate drip system ended in August 2014. For comparison, between June 2013 and July 2014 (the year preceding shutdown of the AWF ferrous sulfate drip system), total chromium influent concentrations averaged 0.034 mg/L and the FBRs were receiving about 0.36 pounds of chromium per day from the equalization tanks.

Despite receiving increased chromium per day during the current reporting period, total and hexavalent chromium concentrations in the FBR effluent are still well below the site's National Pollutant Discharge Elimination System (NPDES) permit requirements, as described below. The FBRs discharge treated water to the Las Vegas Wash just upgradient of the Pabco Road erosion control structure under authority of NPDES Permit NV0023060. Results of discharge monitoring performed between July 2014 and June 2015 are presented in Table 6. Effluent hexavalent chromium concentrations were between <0.00025 mg/L to 0.00034 J mg/L during the current reporting period – well below the effluent discharge limitation of 0.01 mg/L (daily maximum). Total chromium was detected in effluent samples at concentrations ranging from 0.004 to 0.043 mg/L and at an average concentration of 0.014 mg/L – also well below the effluent discharge limitation of 0.1 mg/L (daily maximum).

[18] This flow rate is measured at the effluent totalizer and measures the throughput at the FBRs. This flow is not the same as the cumulative groundwater extraction rate as measured by the extraction well totalizers, since these readings do not account for flow into and out of GW-11, evaporation, and additions of stabilized Lake Mead water, which is used to maintain the mechanical pump seals.

The FBR system removed approximately 210 pounds of additional chromium over the 12-month period. The sum of the chromium captured and removed from groundwater between July 2014 and June 2015 by the GWTP and by the FBRs totaled approximately 2,480 pounds.

4. PERCHLORATE CAPTURE AND TREATMENT

The components of the perchlorate capture system consist of the IWF, the barrier wall, the AWF, the SWF, and the seep capture sump.[19] As discussed previously, recharge trenches located downgradient of the barrier wall were formerly part of the GWETS. The locations of these components are shown on Figure 1a. Perchlorate mass removal, flow rate, and average concentration information for the IWF, AWF, and SWF are presented in Table 7. Figure 9 presents the monthly perchlorate recovery totals and the relative contribution of the IWF, AWF, and SWF.

During the period July 2014 to June 2015, a total of approximately 508,200 pounds of perchlorate (approximately 1,390 pounds per day [lbs/day]) were captured and removed from groundwater by the GWETS. Of this total, approximately 287,500 pounds (approximately 790 lbs/day) were captured by the IWF; approximately 195,400 pounds (approximately 540 lbs/day) were captured by the AWF; and approximately 25,300 pounds (approximately 70 lbs/day) were captured by the SWF. These perchlorate removal calculations are performed by Tetra Tech, Inc. (Tetra Tech) consistent with the NDEP's revised and approved method to calculate perchlorate removed from the environment and are generated using flow and perchlorate concentration data for the three well fields.

The perchlorate mass removal during the current reporting period indicates a gradual return to conditions as they existed prior to late 2012. Starting in September 2012 there was a significant increase in the mass of perchlorate captured and removed from groundwater due to a series of storm events between August and October 2012 and subsequent infiltration, primarily at the Central Retention Basin, but in other areas as well, causing mobilization of perchlorate from the vadose zone.[20]

4.1 Perchlorate Plume Configuration

Table A-1 in Appendix A contains analytical and groundwater elevation data for the last five quarters for wells monitored as part of the NERT groundwater monitoring program. Table A-2 in Appendix A contains second quarter 2015 analytical and groundwater elevation data received from AMPAC, OSSM, TIMET, and SNWA. Appendix B contains well data sheets showing perchlorate concentration trends (as well as chromium concentrations and groundwater elevations) in individual wells over time. Plate 7 shows the contoured perchlorate plume from the south end of the Site to the Las Vegas Wash, based on data collected in May and June 2015. The current isoconcentration map is generally similar to the 2014 map, but includes some significant differences due to the following:

19 As discussed in Section 1, the seep capture sump was decommissioned shortly after April 2007, which is when the sump reportedly last operated.

20 Perchlorate captured and removed by the three well fields rapidly increased from approximately 1,300 lbs/day in August 2012 to 1,730 lbs/day in September 2012. In October 2012, perchlorate removal reached a peak of approximately 1,980 lbs/day. The effects of the storm events on groundwater conditions were discussed in previous performance reports beginning with the 2012 Semi-Annual Performance Report (ENVIRON 2013a).

- Additional data collected by other parties not evaluated in previous years have been included in this year's plume map, which has altered the plume from previous interpretations. In particular, the additional data available from AMPAC, which had not previously been evaluated, was used to interpret significant portions of the adjacent AMPAC perchlorate plume.
- As discussed in Section 1, available shallow groundwater data collected as part of the RI have been included to address data gaps from previous interpretations. RI data as shown on Plate 7 have been validated and will be formally submitted, along with supporting database and laboratory documentation, as part of the upcoming RI Report.
- As part of the COP, a subsurface conditions evaluation was performed in part to define the contact surface between the UMCf and the Qal, as discussed in Section 6.6. This evaluation resulted in a reinterpreted configuration of the paleochannel network, the effects of which have altered the current plume map.
- The perchlorate isoconcentration map was initially created by interpolating log-normalized concentrations using kriging in ArcGIS. Analytical data collected as part of the RI were then qualitatively evaluated to identify spatial trends in areas with data gaps. Identified trends were incorporated into the isoconcentration map by digitizing hand-drawn contours, further altering the plume from previous interpretations.

Based on second quarter 2015 perchlorate analytical results, the highest perchlorate concentration south (upgradient) of the barrier wall occurred in well I-AR (2,500 mg/L), in the western flank of the IWF, and near I-H (2,100 mg/L) near the center of the IWF. As seen in Figure 10, perchlorate concentrations at the IWF have been relatively stable over the last five quarters.

North of the barrier wall, the highest perchlorate concentrations in second quarter 2015 were detected in well M-140 (1,500 mg/L) located immediately downgradient and near the western end of the wall, and wells M-71 (1,100 mg/L), and M-72 (1,200 mg/L), which are located immediately downgradient and near the mid-point of the wall. North of the former recharge trenches, the highest perchlorate concentration in second quarter 2015 was 750 mg/L in well M-44, located between Warm Springs Road and Boulder Highway. The highest perchlorate concentration reported at the SWF during second quarter 2015 was 20 mg/L in well PC-99R2/R3, which is located in the center of the well field.

As a result of the comprehensive evaluation of perchlorate data received from the BMI Complex Parties and the initial evaluation of available RI data, areas of the NERT perchlorate plume have been revised compared to the 2014 perchlorate plume interpretation. In previous interpretations, the NERT and AMPAC perchlorate plumes were shown as isolated from one another, with a clean area extending from the OSSM well field and injection trenches to the COH Bird Viewing Ponds located downgradient. However, an initial evaluation of available RI data in conjunction with additional data from the BMI Complex Parties indicates the AMPAC plume to the west commingles with NERT's perchlorate plume. Furthermore, the re-interpretation of the subsurface geology and paleochannels conducted as part of the COP in 2015 has also informed the perchlorate plume characterization. The revised plume presented on Plate 7 accounts for the influence of AMPAC's perchlorate plume and the paleochannels on the area west of the NERT plume.

On Plate 7, a narrow band of increased perchlorate concentrations is shown between the AMPAC and NERT plumes surrounding wells H-56A and PC-31 extending along the paleochannel in that area. An additional area of increased perchlorate concentration is also shown extending downgradient through the paleochannel from AMPAC's plume source to well MC-47. Based on the revised interpretation of the paleochannels as shown on Plate 7, it appears that the perchlorate observed at H-56A and PC-31 originates from the area of increased concentrations observed at MC-47; however, because additional data within the paleochannel in that region are not available, this conclusion is not definitive. This issue will be further evaluated as part of the RI.

Plate 7 also shows comingling of the AMPAC and NERT plumes in the vicinity of the AWF. Data collected during the RI (both groundwater elevation and analytical results) from newly-installed wells west of the AWF (PC-154, PC-158, PC-159, and PC-160) indicate that the AWF (specifically ART-1 and to a lesser extent, ART-2) is likely extracting a portion of AMPAC's perchlorate plume located to the west. The groundwater elevation data indicate that groundwater flows from the eastern edge of AMPAC's plume towards the AWF. Analytical data indicate a relatively consistent concentration of perchlorate in samples from wells PC-154, PC-158, PC-159, and PC-160. The absence of groundwater quality data in this area was a data gap in previous interpretations of the plume. Downgradient groundwater conditions will be further examined to determine the extent of contamination migrating from the NERT site.

4.1.1 Interceptor Well Field Area

The IWF targets the highest concentrations of perchlorate at the Site. In general, perchlorate concentrations in groundwater downgradient of the IWF and barrier wall are significantly below concentrations observed in groundwater upgradient of these features. Figure 10 represents a west-east transect through the IWF and shows perchlorate concentrations from May 2002 compared to data for the last five quarters from the extraction wells. Seven of these wells (I-AA, I-AB, I-AC, I-AD, I-W, I-X, and I-Y) were activated as part of the 2013 GWETS Optimization Project. Following activation, extraction wells I-AB, I-AC, and I-AD were unable to achieve sustainable pumping rates and are currently idle.

Since November 2012, there has been significant variability in the perchlorate concentrations in the IWF wells due to a marked increase in perchlorate concentrations beginning in November 2012. A combination of factors is likely responsible for the observed increase and subsequent decrease in perchlorate concentrations within many of the IWF wells. These factors include high levels of precipitation during late 2012, the alteration of Site drainage patterns resulting from Site excavation and grading, and the potential mobilization of vadose zone perchlorate from infiltration at the Central Retention Basin. However, perchlorate concentrations have gradually decreased and are now consistent with levels prior to November 2012. During the reporting period, elevated perchlorate concentrations west of I-M existed in a relatively narrow area centered on well I-AR, while the elevated perchlorate concentrations east of I-M typically spanned a broader area extending from wells I-E to I-I. This concentration profile is similar, but less pronounced than in the dashed red line in Figure 10 depicting the May 2002 data with the exception of wells I-M, I-I, and I-K, where perchlorate concentrations during the

reporting period were higher than they were in 2002. Concentrations at I-K appear relatively stable over the reporting period, while concentration ranges at wells I-I and I-M spanned 460 and 560 mg/L, respectively, during the reporting period. These ranges are consistent with increased variability observed in perchlorate concentrations at the IWF since November 2012. Although higher variability remains compared to pre-November 2012 conditions, concentrations have become more stable recently. For comparison, measured perchlorate concentration ranges in wells I-I and I-M spanned 850 and 1060 mg/L in the five quarters immediately following August 2012.

Figure 11 charts perchlorate concentrations for select wells at the IWF over time. The graph shows generally decreasing trends since sampling for perchlorate began in 2002. Figure 12 represents a west-to-east transect through wells immediately downgradient of the barrier wall and shows perchlorate concentrations from May 2000 compared to data for the last five quarters. Perchlorate concentrations in wells immediately downgradient of the barrier wall remained elevated during the reporting period compared to late-2012 conditions (concentrations were 690 mg/L in well M-71 in November 2012 and ranged between 940 mg/L and 1,400 mg/L during the current reporting period). The variability in concentrations measured during the reporting period is most pronounced in the central portion of the well line.

Figure 13 charts perchlorate concentration and water elevation trends in monitoring wells M-100 and M-23, located approximately 700 and 1,300 feet north (downgradient) of the former recharge trenches, respectively. Figure 13 indicates a sharp decrease in perchlorate concentrations in both wells beginning in early 2002, shortly after the barrier wall was installed at the IWF. Water level trends reflect infiltration and mounding of water recharged to the subsurface through the former recharge trenches. Clogging of the trenches and reduced infiltration are reflected in the decreasing water levels beginning in approximately May 2007. The trenches were subsequently refurbished in February 2008 and June 2009 with water levels in well M-100 quickly rebounding and water levels in well M-23 rebounding somewhat more slowly. Operation of the trenches was suspended in September 2010, which corresponds with decreases in water levels in both wells M-100 and M-23. Well M-100 has been dry since December 2010. The water level in well M-23 has decreased approximately eight feet since the trenches were shut down. Perchlorate concentrations in well M-100 remained relatively stable from 2008 through 2010. Perchlorate concentrations in well M-23 have decreased significantly since July 2006.

4.1.2 Athens Road Well Field Area

The AWF captures perchlorate in groundwater at concentrations generally less than 500 mg/L. A west-east transect through the AWF, which charts perchlorate concentrations for the last five quarters, is shown on Figure 14. Perchlorate concentrations in the AWF's eight pumping wells are shown, in addition to monitoring wells PC-18, PC-55, PC-122, PC-148, and PC-149. The pumping wells shown include PC-150, which was activated as an extraction well during the reporting period. As shown on the figure, perchlorate concentrations on the western (PC-55 and ART-1) and eastern (PC-122) edges of the well field remain relatively low, consistent with previously identified trends. PC-150 exhibited

more variability during the reporting period possibly due to its activation as a pumping well in November 2014.

Figure 15 shows that overall perchlorate concentrations in the AWF have declined significantly since 2002. Concentrations in individual wells fluctuate between sampling events, but for most wells these fluctuations have moderated with time.

Approximately 250 feet north of the AWF, eight wells comprise the Athens Road Piezometer or "ARP" well line. Perchlorate concentrations across the ARP well line are presented on Figure 16, and perchlorate concentrations in these wells over time are shown on Figure 17.

As shown on Figure 16, perchlorate concentrations in the western side of the well line (represented by ARP-1, ARP-2/2A, and ARP-3/3A) and the eastern side of the well line (represented by ARP-4/4A, ARP-5/5A, ARP-6/6A/6B and ARP-7) have significantly decreased since 2002. This indicates that the AWF has been effective in capturing perchlorate contaminated groundwater in these sections of the plume. As shown on Figure 17, with the exception of wells MW-K4 and ARP-6/6A/6B, concentration trends in the ARP well line appear relatively stable. Concentrations in well MW-K4 initially declined with the onset of AWF operation in 2002 and dropped further when ART-9 began pumping in September 2006. Perchlorate concentrations in MW-K4 generally declined between January 2010 (300 mg/L) and December 2011 (150 mg/L), but rebounded during 2012, once again reaching 300 mg/L. These increases and decreases in perchlorate concentration in MW-K4 do not appear related to changes in water elevation. The higher and more variable perchlorate concentrations in well MW-K4 are likely influenced by the well's location with respect to subsurface alluvial channels within the UMCf. Analysis first presented in Appendix E of the 2011-2012 Annual Performance Report indicated that there could be a gap in the capture zone that may be responsible for the elevated concentrations in MW-K4 (ENVIRON 2012).

Perchlorate concentrations in MW-K4 declined during the current reporting period from 220 mg/L in July 2014 to a low of 41 mg/L in June 2015. Although the activation of upgradient extraction well PC-150 occurred in November 2014, it is not yet clear how much of an effect this had on the concentrations in MW-K4. No significant changes in perchlorate concentration were observed downgradient of well ART-7B, which was also activated as an extraction well during the current reporting period.

Between the ARP well line and the SWF are the COH WRF well line (wells PC-103, PC-98R, MW-K5, PC-53) and the Lower Ponds monitoring well line (PC-68, PC-62, PC-59, PC-60, PC-56, PC-58), located approximately 2,200 and 4,400 feet north (downgradient) of the AWF, respectively. Perchlorate concentrations in the COH WRF wells on a west-east transect are shown on Figure 18. Figure 19 presents perchlorate concentration trends for these same wells over time. As shown in the figures, current perchlorate concentrations are well below levels measured in the same wells in May 2002, especially in the center of the well line (Figure 18). Figure 19 shows perchlorate concentrations at the COH WRF well line have been relatively stable or gradually increasing since mid-2007.

Figure 20 shows historical water elevations at the COH WRF well line in PC-98R. This figure indicates that many of the historical low-concentration events in the wells appear to be associated with a rapid increase in the water levels, likely the result of increased infiltration from the COH WRF surface ponds. The significant groundwater "mounding events" since 2008 (when the operation of the COH RIBs ceased) are not as pronounced as previous ones and are presumed to be related to operation of the COH Bird Viewing Ponds or due to seasonal fluctuation. Recently, the more moderate changes in groundwater elevations appear to have little effect on perchlorate concentrations. Overall, perchlorate concentrations in PC-98R have been gradually increasing since about 2009. Immediately downgradient from PC-98R is the location of the proposed groundwater bioremediation pilot test intended to evaluate in-situ biological treatment for perchlorate (Tetra Tech 2015a).

The Lower Ponds well line is approximately 2,200 feet north of the COH WRF well line. Figures 21 and 22, the perchlorate west-east transect and trend chart for the Lower Ponds well line, respectively, show that current perchlorate concentrations are well below levels measured in the same wells in May 2002, especially at well PC-56 (Figure 21). Figure 22 shows that perchlorate concentrations present in the Lower Ponds well line are generally low and, with the exception of well PC-56, have been relatively stable since 2007. Perchlorate concentrations in well PC-56 have historically been higher and more variable than in other wells on the Lower Ponds well line. The higher and more variable perchlorate concentrations in well PC-56 may be influenced by the well's location with respect to a subsurface alluvial channel that runs north-south back towards the AWF. According to boring logs for these wells, the UMCf was encountered 12 to 20 feet deeper in PC-56 compared to nearby wells PC-58 and PC-60 suggesting it is within a narrow alluvial channel incised within the UMCf.

4.1.3 Seep Well Field Area

At present, the SWF consists of 10 extraction wells – two of which (PC-99R2 and PC-99R3) are connected and operate as one – positioned over the deepest part of a broad alluvial channel. The well field is located approximately 600 feet upgradient of the seep capture sump. The original three recovery wells in the SWF (PC-99R2/R3, PC-115R, and PC-116R) commenced pumping in 2002. In 2003, five additional wells (PC-117, PC-118, PC-119, PC-120, and PC-121), and in 2005, one additional well (PC-133), were completed in the SWF. Wells PC-120 and PC-121, located at the west end of the SWF line and away from the deepest portion of the subsurface alluvial channel, have not been continuously pumped since 2005 due to their low perchlorate removal efficiencies when compared with other SWF wells. Wells PC-120 and PC-121 are turned on for sampling or when maintenance is performed on other SWF wells.

Figure 23 shows perchlorate concentrations along a west-east transect for the last five quarters along with concentrations for each well during its first month of operation. This transect shows that the plume configuration has remained relatively stable, with a broad area of higher concentration centered on well PC-99R2/R3. Figure 24, which depicts perchlorate concentrations in each well, shows that perchlorate concentrations have significantly decreased since 2002. Perchlorate concentrations in PC-99R2/R3, PC-116R, and PC-117 remain relatively low but appear to be gradually increasing since about 2009

in a manner that is similar to upgradient well PC-56 (Figure 22) located at the Lower Ponds well line and PC-98R (Figure 20) located at the COH WRF well line.

SWF wells with lower concentrations of perchlorate (PC-119, PC-120, and PC-121) have been relatively stable with the exception of PC-133, which steadily increased from 0.63 mg/L in May 2012 to a high of 16.0 mg/L in February 2013. However, starting in March 2013, perchlorate concentrations in PC-133 decreased to a low of 1.5 mg/L in April 2014 before increasing to 14.0 mg/L by January 2015. From February 2015 to June 2015, the perchlorate concentrations in PC-133 remained between 9.0 mg/L and 11.0 mg/L. PC-133 is on the eastern edge of the alluvial channel away from the other SWF pumping wells, which pump at significantly higher rates. It is further noted that PC-133 was rehabilitated on September 30, 2013 to remove roots from the well in an effort to increase its extraction rate; however, the work, which included swabbing and pumping the well and replacing the pump and motor with higher capacity units, did not result in an increase in the extraction rate. The reasons for these concentration fluctuations and extraction limitations are unclear, but will be further evaluated as part of the effort to quantify flows to the SWF, as described in section 6.4.4.

As discussed in Section 2.3, on February 4th, 2015 NDEP reported that groundwater was accumulating in the seep capture sump and overtopping the sump. Inspection by NERT personnel indicated that water was overflowing the sump and discharging to the surface at a rate of approximately 1.5 gpm. Prior to this it was believed that the seep had been dry since April 2007. As reported to NDEP on April 7, 2015 (NERT 2015), two surface water samples were collected from within the seep capture sump and were analyzed by Envirogen using their on-site laboratory. The perchlorate concentrations in the samples were 950 and 890 mg/L. Pumping rates were subsequently increased at the east end of the SWF (wells PC-133, PC-117, PC-116R, and PC-99R2/R3) in order to lower the water table in the vicinity of the seep capture sump and reduce the potential for future discharge from the sump. Water stopped overtopping the seep capture sump approximately four days after extraction rates were increased, and monitoring data from nearby wells PC-96 and PC-97 indicate that the increased extraction rates lowered the water table by approximately 0.4-0.5 feet. After one month of continuous increased pumping, water levels dropped to three inches below the rim of the seep capture sump. As discussed in Section 2.3, NERT requested permission to discontinue interim response measures due to the current hydraulic limitation of the GWETS and the anticipated implementation of the COP; NDEP approved discontinuation of the interim measure on April 9, 2015 (NDEP 2015) and SWF extraction rates were returned to normal on April 22, 2015.

4.2 Perchlorate Treatment System

Throughout the reporting period, groundwater was captured both on-site and off-site, conveyed to the on-site treatment facilities, and treated biologically in the FBRs to remove perchlorate, chlorate and nitrate. As previously shown in Figure 9, the majority of perchlorate capture at the Site happens via the IWF (287,500 pounds), followed by the AWF (195,400 pounds), and the SWF (25,300 pounds). The SWF contributes the highest flow to the GWETS (an average flow rate of 536.0 gpm between July 2014 and June 2015) compared with the IWF (an average flow rate of 68.7 gpm) and the AWF (an

average flow rate of 285.6 gpm), but captures significantly lower concentrations of perchlorate (generally less than 10 mg/L).

As shown on Figure 25, the monthly average perchlorate concentrations captured at the IWF generally decreased from a high of about 1,890 mg/L in October 2002 to 732 mg/L in June 2012, the lowest recorded average concentration. The IWF's monthly average perchlorate concentration then doubled to 1,491 mg/L in December 2012. As reported previously, it is likely that additional perchlorate mass was mobilized via infiltration of storm water following the large rain events in the fall of 2012 leading to the historically high perchlorate concentrations and mass removals at the IWF. The calculated perchlorate mass removal has generally followed a similar trend. During the current reporting period, average concentrations in the IWF decreased from approximately 1,040 mg/L in July 2014 to 920 mg/L in June 2015, resulting in decreased mass removal. Barring additional historic rain events or changes in system operation, it is expected that the elevated perchlorate concentrations and mass removals will continue to decrease to levels similar to those prior to December 2012.

Figure 26 shows that perchlorate concentration and mass removal for the AWF have been decreasing since late 2002. During the current reporting period, concentrations and mass removal rates were relatively stable. In contrast to the IWF (Figure 25) where large increases and subsequent decreases in perchlorate concentrations and mass removal are evident starting in late 2012 following large rain events at that time, similar trends have not been observed at the AWF (Figure 26) in the succeeding years.

Figure 27 depicts a generally decreasing trend in monthly average perchlorate concentrations captured at the SWF from a high of approximately 82 mg/L in March 2003 to an average of approximately 11 mg/L between July 2014 and June 2015. The calculated perchlorate mass removal has generally followed a similar trend. The average perchlorate removal during the current reporting period is approximately 570 pounds per month greater than the average reported for the previous reporting period from July 2013 to June 2014.

Effluent from the FBRs has been discharged into Las Vegas Wash within the limits specified in the NPDES NV0023060 discharge permit. As shown on Table 8, between July 2014 and June 2015, the perchlorate influent to the FBRs ranged from 71 mg/L to 130 mg/L. Perchlorate was not detected at concentrations exceeding the laboratory sample quantitation limit (SQL) (<0.0025 mg/L) in effluent discharged to Las Vegas Wash during the current reporting period.

The perchlorate treatment system underwent a temporary process modification during the previous reporting period. The GW-11 pond, which had served as a holding area for untreated groundwater and off-specification effluent, was altered to function as an influent equalization basin starting on March 27, 2014. The change was designed to provide hydraulic retention upstream of the GWETS process units and dampen fluctuations in influent loading. However, plugging of filtration equipment proved to be a significant hindrance to the modification and the use of GW-11 as an equalization basin ended on August 6, 2014, during the current reporting period. Envirogen subsequently identified modifications to the filtration system, including the use of automatic filters,

which were fully implemented during the current reporting period. GW-11 began operating as an equalization basin again on January 6, 2015.

5. TOTAL DISSOLVED SOLIDS

Plate 8 shows the isoconcentration contours for TDS from the southern end of the Site to the Las Vegas Wash, based on data collected during second quarter 2015. In general, the current isoconcentration map is similar to the 2014 map with some local variances due to the following:

- Additional data collected by other parties not evaluated in previous years have been included in this year's plume map, which has altered the plume from previous interpretations. In particular, the additional data available from AMPAC and TIMET, which had not previously been evaluated, was used to interpret significant portions to the east and west of last year's plume extent.
- As discussed in Section 1, available shallow groundwater data collected as part of the RI have been included to address data gaps from previous interpretations. RI data as shown on Plate 8 have been validated and will be formally submitted, along with supporting database and laboratory documentation, as part of the upcoming RI Report.
- As part of the COP, a subsurface conditions evaluation was performed in part to define the contact surface between the UMCf and the Qal, as discussed in Section 6.6. This evaluation resulted in a reinterpreted configuration of the paleochannel network, the effects of which have altered the current plume map.
- The TDS isoconcentration map was initially created by interpolating log-normalized concentrations using kriging in ArcGIS. Analytical data collected as part of the RI were then qualitatively evaluated to identify spatial trends in areas with data gaps. Identified trends were incorporated into the isoconcentration map by digitizing hand-drawn contours, further altering the plume from previous interpretations.

Figure 28 is a west-east transect through the IWF which charts TDS concentrations over the last five quarters. A comparison of Figure 10 and Figure 28, which show perchlorate and TDS, respectively, in each of the IWF wells, indicates that a broad zone of high TDS in the central part of the IWF coincides with the eastern area of elevated perchlorate concentrations. As with perchlorate, concentrations of TDS generally returned to pre-November 2012 levels across the IWF during the current performance period with the exception of an anomalously high TDS reading in well I-AC in fourth quarter 2014.

Figure 29 is a west-east transect through the AWF which charts TDS concentrations for the last five quarters. The figure shows that two zones of higher TDS exist at the AWF: one centered on well ART-8 on the west side of the AWF and one at wells ART-7 and PC-122 on the east end of the AWF. Concentrations of TDS in AWF wells remained relatively stable during the reporting period.

TDS concentrations in the SWF wells for the last five quarters are plotted on Figure 30. The highest TDS concentration during the reporting period (5,300 mg/L) was detected in well PC-99R2/R3 in October 2014. Higher TDS concentrations generally correspond with higher perchlorate concentrations in both AWF and SWF wells. TDS mapping and analysis in the northern portion of the plume, between the Bird Viewing Ponds and Las Vegas Wash, has also aided in interpretation of hydrologic conditions and the potential influence of surface water features, as further discussed in Section 6.4.4.

6. PERFORMANCE EVALUATION

This section provides an evaluation of the performance of the GWETS against a set of performance metrics developed in coordination with NDEP. These metrics are intended to establish a consistent framework for evaluating performance of the GWETS.

6.1 Performance Metrics

Performance metrics were developed as part of the 2013 GWETS Optimization Work Plan (ENVIRON 2013d), approved by NDEP on December 3, 2013 (NDEP 2013c). The metrics include those identified in the October 10, 2013 letter from NDEP (NDEP 2013b) commenting on the 2012-2013 Annual Performance Report, additional data requested in the April 9, 2014 letter from NDEP (NDEP 2014b) on the 2013 Semi-Annual Performance Report, and additional metrics[21] identified by ENVIRON International Corporation (ENVIRON, now known as Ramboll Environ). The approved performance metrics are outlined below:

1. Monthly perchlorate and chromium mass removal rates from the IWF, AWF, and SWF;
2. Perchlorate and chromium plume mass estimates;
3. The concentrations at which the Site is achieving 90% and 99% capture of perchlorate and chromium;
4. Perchlorate and chromium capture efficiency of the IWF, AWF, and SWF;
5. Mass loading of perchlorate and chromium in the Las Vegas Wash at Northshore Road;
6. The fraction of mass loading in Las Vegas Wash at Northshore Road that originates from the Site;
7. The amount of surface water from Las Vegas Wash and the COH Bird Viewing Ponds that is being extracted by the SWF; and
8. The environmental footprint of the GWETS with a focus on energy use.

The numbering of the metrics presented above was done only for clarity and does not reflect prioritization. The metrics are discrete measures of performance that will be used to understand and adjust GWETS performance over time.

6.2 Groundwater Model

A key tool for developing and implementing the performance metrics is the groundwater model. The groundwater model for the Site was originally developed by Northgate Environmental Management, Inc. (Northgate) and documented in the Capture Zone Evaluation (CZE) Report (Northgate 2010). The model was approved on April 4, 2013 by NDEP (NDEP 2013a). As part of the 2013 GWETS Optimization Project, the model was refined and updated to recent steady-state conditions. The modeling work follows the

21 These metrics are separate and distinct from those being utilized as part of NERT's monthly GWETS operations reporting, which were included in Tetra Tech's Enhanced Operational Metrics Proposal dated August 20, 2014 (Tetra Tech 2014a).

2013 GWETS Optimization Project Work Plan submitted by ENVIRON (now known as Ramboll Environ) to NDEP (ENVIRON 2013d). The updated model, known as the Phase I Model, was described in the 2013 Semi-Annual Performance Report (ENVIRON 2014a). A second phase of refinements and updates were made as described in Attachment A of the 2013-2014 Annual Performance Report (ENVIRON 2014c). The Phase III Model, which involves further refinement of the steady state model, is presented herein as Attachment A. The Phase III Model has recently been updated with second quarter 2015 pumping rates for evaluations presented in this report and shown in Tables 1 through 3. The second quarter 2015 pumping rates for OSSM, TIMET, and AMPAC wells have also been incorporated. A refined steady-state model (the Phase 4 model) will be submitted with the 2015 Semi-Annual Remedial Performance Report in April 2016. Following NDEP approval of the Phase 4 model, the transient groundwater model (Phase 5 model) will be developed as part of the RI effort.

6.3 Performance Evaluation Approach

An overall approach for evaluating metrics was established in the 2013 GWETS Optimization Project Work Plan (ENVIRON 2013d) and was described in the 2013 Semi-Annual Performance Report (ENVIRON 2014a). The performance metrics are focused mainly on perchlorate because the perchlorate plume is the most spatially extensive (i.e., the spatial extent of the chromium plume is contained within the perchlorate plume) and perchlorate represents the more immediate threat to off-site receptors due to its potential impacts on Las Vegas Wash. This is consistent with the focus of previous capture zone evaluations at the Site. The evaluation of GWETS performance using the metrics is consistent with United States Environmental Protection Agency (USEPA) guidance on evaluating capture zones for groundwater pump and treat systems (USEPA 2008).

6.4 Evaluation of Performance

In this section, the performance of the GWETS is discussed in relation to the metrics described in Section 6.1. The methodologies used for these evaluations are also described. This evaluation of performance also includes discussion of the operation of GW-11 in Section 6.4.6, as requested by NDEP in the April 9, 2014 comments on the 2013 Semi-Annual Performance Report (NDEP 2014b), and an evaluation of the continuing performance of the barrier wall in Section 6.4.7.

6.4.1 Mass Removal and Remaining Plume Mass

During the period July 2014 through June 2015, approximately 508,200 pounds of perchlorate (approximately 1,390 lbs/day) were captured and removed from groundwater by the GWETS as shown in Table 7. Of this total, approximately 287,500 pounds (approximately 790 lbs/day) were captured by the IWF; approximately 195,400 pounds (approximately 540 lbs/day) were captured by the AWF; and approximately 25,300 pounds (approximately 70 lbs/day) were captured by the SWF.

Tables 9 and 10 present perchlorate and chromium plume mass estimates for 2002, 2006, 2012, 2014, and 2015. Estimates of remaining plume mass were first presented in the 2012-2013 Annual Performance Report (ENVIRON 2013c) for years 2002, 2006, and 2012. No estimate of chromium mass for 2002 could be developed due to lack of data.

The mass estimates for 2015 were based on second quarter 2015 data. Isoconcentration maps were initially developed by interpolating log-normalized concentrations using kriging in ArcGIS. A previous comparison of three interpolation methods, including methods based on kriging, splines, and contours, showed that the methods give similar results (ENVIRON 2013c). Kriging is a standard interpolation method, but it is not able to incorporate abrupt changes in concentration levels observed at the barrier wall or well fields, and also neglects to account for other important hydrogeological features (such as the presence of paleochannels). Furthermore, kriging could not be used to qualitatively evaluate RI data, initial evaluations of which have identified certain changes in the plume extent, particularly between the AMPAC and NERT perchlorate plumes. To incorporate these features, hand-drawn contour lines were created and digitized in ArcGIS. It is important to note that because the plume interpretation was altered this year to incorporate available shallow groundwater data from the RI and information from the COP subsurface evaluations as discussed in more detail below, mass estimates have changed considerably from previous years, therefore, the current mass estimates are not comparable to previous estimates.

The inherent uncertainty in the resulting mass estimates (particularly for chromium where the concentrations are lower) may explain why the mass estimates demonstrate variability year to year. Starting with second quarter 2014, a 95% margin of error was included in the tables in order to characterize the uncertainty in the mass estimates. The 95% margins of error are calculated based on the standard deviations of the interpolated concentrations and assumed standard deviations for the Qal and UMCf thicknesses. Due to the qualitative evaluation of RI data, the kriging algorithm could not be used to obtain the standard deviation of the interpolated concentrations. Based on professional judgment, we assume a standard deviation for the perchlorate concentration in the Qal of 25%, and for the perchlorate concentration in the UMCf of 33%. We also assume a standard deviation for the Qal thickness of 10% and for the UMCf thickness of 20%.

The thickness of the Qal used in the mass estimate is based on the contact between the alluvium and UMCf in the groundwater model. As part of the Phase III Model Refinement, changes were made to the contact surface between the Qal and the UMCf; therefore, the thickness of the layers used in the mass estimate were changed for the 2015 estimate. This has resulted in some changes in the 2015 mass estimates as compared to 2014, as discussed below.

Another reason that plume mass estimates may vary from year to year is due to on-site sources in the unsaturated zone, which have the potential to contribute significantly to plume mass through leaching. Consistent with the conceptual site model developed as part of the RI/FS Work Plan (ENVIRON 2014b), there are likely continuing sources of both perchlorate and chromium that will contribute to the plume mass over time. The increases in perchlorate concentrations in the IWF following the heavy rains at the end of 2012 represent strong evidence for the existence of such sources in the unsaturated zone. A primary goal of the RI is to investigate potential source areas to better understand the impact of contaminants remaining in the unsaturated zone in order to identify effective long-term remedial alternatives.

The total plume masses as of second quarter 2015 are estimated to be 2,888 ± 754 tons for perchlorate and 20 ± 6 tons for chromium. There were increases in all areas in plume mass estimates in the Qal and UMCf for both perchlorate and chromium, except for the chromium estimate on-site in the UMCf, which appears to be due to a smaller area of particularly high concentrations on-site in the shallow zone. These increases in plume mass were caused by a combination of two factors: 1) the evaluation of available shallow groundwater data collected as part of the RI, which has altered the plume interpretation, and 2) the assumed thickness of the layers used in the estimate increased due to the refinement of the contact surface between the Qal and UMCf as a result of the COP subsurface conditions evaluation.

6.4.2 Capture Zone Evaluation and Estimated Mass Flux

Capture zones for each of the well fields were estimated in the shallow, middle, and deep water-bearing zones using forward particle tracking, calculated using MODPATH (Pollock 1994), and using the Phase III Model. Particles were released in the center of each model cell in model layers 1 and 2 (representing the shallow water-bearing zone), layers 3, 4, and 5 (representing the middle water-bearing zone), and layers 6 and 7 (representing the deep water-bearing zone). Capture zones for each well field were defined using an analysis of the particle tracking endpoints.

Based on pumping rates from second quarter 2015, simulated capture zones in the shallow, middle, and deep zones are shown in Figure 31a, Figure 31b, and Figure 31c, respectively. In order to evaluate performance based on this metric, the simulated capture zones are compared to target capture zones, which were defined as the combination of the Site and Downgradient Plume Area, as defined in the RI Work Plan (ENVIRON 2014b) and outlined on Figures 31a, 31b, and 31c. Comparing the target capture zones to the simulated capture zones indicates that the combination of the IWF, AWF and SWF almost completely capture groundwater within the Site and Downgradient Plume Areas, except for a small area between the SWF and Las Vegas Wash, where the perchlorate concentrations are generally less than 10 mg/L (approximately 1.7 mg/L in PC-97 in May 2015), and an area east of the SWF where perchlorate concentrations in groundwater collected from well PC-94 were between 17 and 23 mg/L during the reporting period. These areas are slightly larger than in previous reports because the hydraulic conductivities in the area surrounding the SWF was increased for the Phase III Model. Further refinements to the hydraulic conductivities may occur with additional aquifer testing as part of the RI and the COP.

To further evaluate the performance of each well field, perchlorate mass flux at the IWF, AWF, and SWF were estimated at three transects within the Site and Downgradient Plume Areas, located just upgradient of each of the three respective well fields. The transect lines were drawn perpendicular to the groundwater flow and are shown on Figure 32a. Mass flux was calculated using the methods described in applicable guidance by the Interstate Technology and Regulatory Council (ITRC 2010). The distributions of perchlorate mass flux at the IWF, AWF, and SWF along these transects are shown in Figures 32b, 32c, and 32d, respectively.

Perchlorate mass flux across each transect was calculated differently depending on whether that portion of the transect was inside or outside of the simulated capture zone.

The perchlorate mass flux within the capture zone was estimated by averaging the mass loading at each extraction well, which was determined using the average pumping rates for second quarter 2015 and the perchlorate concentration measured in each well in May 2015 .

The estimates of perchlorate mass flux outside of the capture zone at each transect were calculated from modeled flow rates and interpolated concentrations. For each model cell on the transect, the flux was calculated as the product of the average perchlorate concentration for May 2015, modeled groundwater flow rate, model cell width, and the thickness of model layers 1, 2, 3, and 4, which includes the Qal and the estimated saturated thickness of perchlorate-impacted UMCf. Further, it was assumed that perchlorate has not reached the UMCf in the vicinity of the SWF. These assumptions were based on an examination of the vertical distribution of concentrations found at nested wells locations, which are screened in both the Shallow and Middle WBZ.

The overall capture efficiency of each well field was calculated as the ratio of the total captured mass flux to the total mass flux across each transect. The capture efficiencies of the IWF, AWF, and SWF were calculated as 99.9%, 98.1%, and 95.3%, respectively. The results show that during second quarter 2015, an estimated average of 3.5 lbs/day of perchlorate discharged into Las Vegas Wash from the NERT Downgradient Plume Area (as shown on Plate 7). It is important to note this estimated perchlorate mass flux to Las Vegas Wash only accounts for perchlorate passing through the transects within the Downgradient Plume Area and not captured by the well fields. Therefore, any perchlorate outside of the boundary of the NERT Downgradient Plume Area is not accounted for in this estimate. Mass loading to the Las Vegas Wash is greater than this estimate due to additional perchlorate sources outside the NERT Downgradient Plume Area, including AMPAC's perchlorate plume and residual perchlorate from the Lower Ponds Area east of Pabco Road.

Based on an evaluation of concentration trends in observation wells downgradient from the well fields, the capture efficiency may be overestimated for the IWF and AWF. As described in Section 2.2, the elevated perchlorate concentrations observed in well MW-K4 during previous performance periods may have indicated a potential gap in capture at the AWF immediately west of the UMCf ridge. In order to address this gap, well PC-150 was activated in November 2014 as part of the 2013 GWETS Optimization Project. Perchlorate concentrations have decreased considerably in the downgradient wells MW-K4 and PC-144 since September 2014. ART-7B, which is located to the east of the UMCf ridge, was also activated in October 2014. No significant changes in concentration have been observed in downgradient concentrations following activation of extraction well ART-7B. However, the calculated capture efficiency at the AWF has increased from 95% during second quarter 2014 to 98.2% in second quarter 2015.

As requested in NDEP's April 9, 2014 letter on the 2013 Semi-Annual Performance Report (NDEP 2014a), the mass flux across each transect was also estimated using an alternative calculation method, one based only on model-estimated groundwater flow rates and interpolated concentrations. Unlike the baseline method, the alternative method does not use the calculated mass removal rates at extraction wells. Rather, a simple transport model was used to simulate migration of perchlorate in groundwater,

considering advection only. Other transport processes, such as dispersion, diffusion, and external sources or sinks, were not considered. The transport model was developed using MT3DMS (Zheng 2010). Since the perchlorate plume is representative of perchlorate in the shallow water-bearing zone, these concentrations are applied as initial perchlorate concentrations in model layers 1, 2, 3, and 4. However, for the SWF, the mass flux is estimated for layer 1 only, as the concentration of perchlorate in the UMCf is assumed to be 0 in the vicinity of the SWF. For this purpose, the transport model is run for one day only. For comparison, the perchlorate mass captured at each well field using the extraction well mass removal rates (baseline method) and the alternative method is shown below:

	Perchlorate Mass Captured (lbs/d)	
	Baseline Method[1]	**Alternative Method**
IWF	724	701
AWF	527	522
SWF	71	66

[1] From measured flow rates and perchlorate concentrations at each well

The estimate of the mass captured at the three well fields using the alternative method is consistent with the estimate of mass capture using the baseline method. The capture efficiencies of the IWF, AWF, and SWF using the alternate method were calculated as 99.9%, 98.1%, and 95.0%, respectively. The estimated average mass of perchlorate discharged into Las Vegas Wash is equivalent for both methods (3.5 lbs/day in second quarter 2015). While it is Ramboll Environ's opinion that the baseline method, which uses measured mass removal data from extraction wells, is likely to be more accurate than the alternative method, the alternative method provides a good confirmation of the baseline method. The agreement between the baseline and alternative methods also provides validation of the Phase III Model refinements.

6.4.3 Perchlorate Mass Loading to Las Vegas Wash

The water in the Las Vegas Wash is sampled for perchlorate monthly or quarterly at various locations by the GWETS operator (for compliance with the site's NPDES permit) and by SNWA. Currently, perchlorate concentration and mass loading to Las Vegas Wash are reported to NDEP using data from Northshore Road, which is located approximately six river miles downstream of the SWF and just upstream from Lake Mead.

Based on the measured perchlorate concentrations in stream water and corresponding stream flow (at the time of chemical sampling), perchlorate mass loading was estimated at the following three locations: Las Vegas Wasteway (LW8.85), Pabco Road (LW6.05), and Northshore Road (LW0.55). These sampling stations are co-located with United States Geological Survey (USGS) gauging stations and are shown on Figure 33a. Perchlorate mass entering the Las Vegas Wash at any point will include groundwater discharge, as well as other sources (e.g., bank storage, wash gravels). This analysis does not attempt to identify the various sources of perchlorate, but is intended only to identify the general areas where perchlorate may be entering the Las Vegas Wash. Mass

loading at the Las Vegas Wasteway stream gauging station, located about 2.8 river miles upstream of the SWF, is used to estimate background levels of perchlorate. Mass loading at Pabco Road can be used to evaluate the portion of the perchlorate mass loading resulting from sources upstream of Pabco Road.

Annual perchlorate mass loading at the three stations (Northshore Road, Pabco Road and Las Vegas Wasteway) for each year (July through June) are shown on Figure 33b and also presented in Table 11. From July 2014 through June 2015, the average perchlorate mass loading was 1.4 lbs/day at Las Vegas Wasteway, 20.1 lbs/day at Pabco Road, and 64.6 lbs/day at Northshore Road. Thus, this analysis indicates that approximately 29% of the mass loading measured at Northshore Road can generally be attributed to mass entering the Las Vegas Wash between the Las Vegas Wasteway and Pabco Road stations, while approximately 67% can be attributed to mass entering Las Vegas Wash between the Pabco Road and Northshore Road stations for this reporting period.

The estimated average perchlorate mass loading to Las Vegas Wash during the reporting period between Las Vegas Wasteway and Pabco Road is 18.7 lbs/d. This number is larger than the estimated 3.5 lbs/d discharged to the Las Vegas Wash through the transects discussed in Section 6.4.2 because it accounts for additional sources of perchlorate loading outside of the NERT Downgradient Plume Area, including AMPAC's perchlorate plume. According to AMPAC's recent monitoring and performance reports, AMPAC's average perchlorate loading to the Athens Drainage Channel was 11 lbs/day from August to December 2014 (AMPAC 2015a, pg. 13) and 12.9 lbs/day from January to May 2015 (AMPAC 2015b, pg 13). AMPAC additionally reported that the perchlorate loading not captured in shallow groundwater was 4 to 5 lbs/day in the second half of 2014 (AMPAC 2015a, pg. 18) and 5 to 6 lbs/day in the first half of 2015 (AMPAC 2015b, pg. 20).

6.4.4 Surface Water and Groundwater Interaction Near the SWF

Because the SWF is located near two surface water bodies (Las Vegas Wash and the COH Bird Viewing Ponds), pumping at the SWF has the potential to induce water originating at these two surface water bodies to flow into the SWF extraction wells. Since the surface water from both the Las Vegas Wash and the COH Bird Viewing Ponds is comprised primarily of treated municipal wastewater effluent, minimization of these inflows would potentially allow a greater percentage of the capacity of the SWF to be used for plume capture.

Recent performance reports evaluated whether surface water is potentially being pulled into the SWF from Las Vegas Wash by comparing groundwater elevations in shallow monitoring wells near the SWF and stream stage at the Pabco Road weir, located approximately 1,000 feet downstream of the SWF (ENVIRON 2014a, 2014c, 2015a). The evaluation presented in the performance reports indicated that by 2007, groundwater elevations in nearby monitoring wells were generally below the stream stage calculated from the stream gauging height recorded by the USGS at Pabco Road weir (USGS # 09419700). However, in 2015 the benchmark for the Pabco Road stream gauge was resurveyed by Ramboll Environ as part of RI field activities. Based on the survey results and additional information received from the USGS, the Pabco Road stage measurements presented previously were adjusted downward by approximately 7 feet.

A comparison of groundwater elevations measured in nearby shallow monitoring wells with the stream stage elevations is shown in Figure 34. Using the relative locations and elevations of the stream stage at Pabco Road weir and groundwater elevations of SNWA wells adjacent to the wash (WMW-6.15S and WMW-6.55S), a slope of 0.0036 feet/foot was calculated, which can be applied as a correction to the stream stage when comparing it to a well upstream of the Pabco Road weir. After adjusting the stream stage, groundwater elevations in the vicinity of the SWF appear to be below the stream stage at PC-94 and above the stream stage at PC-91 and PC-97.

Apart from surface water potentially being pulled into the SWF from the Las Vegas Wash, the SWF appears currently to draw a significant quantity of water from the COH Bird Viewing Ponds, which are located hydraulically upgradient. A region of groundwater containing low concentrations of TDS (<2,500 mg/L) originating at the COH Bird Viewing Ponds extends to the SWF, as shown on the TDS plume map presented (Plate 8). In May 2015, effluent wastewater discharged to the COH Bird Viewing Ponds contained 1,170 mg/L of TDS (COH 2015), which is distinct from the higher TDS concentrations found in groundwater typically ranging from 2,500 to 5,000 mg/L. Thus, TDS values less than 2,500 mg/L in groundwater provide a reliable indicator of the presence of surface water originating from the COH Bird Viewing Ponds. The low TDS region in groundwater extending from the COH Bird Viewing Ponds to the SWF along the expected direction of groundwater flow is strong evidence that the SWF is extracting a significant amount of COH Bird Viewing Pond water.

To further evaluate the trends suggested by TDS concentrations and groundwater elevations near Las Vegas Wash, additional analyses were performed in February 2014 on samples collected from seven wells in or near the SWF (PC-62, PC-91, PC-97, PC-117, PC-119, PC-121, and PC-133) and three wells at the AWF (MW-K4, ART-4A, and ART-9) (ENVIRON 2014c). The samples were analyzed for certain geochemical parameters not typically monitored as part of the groundwater monitoring program (e.g., total suspended solids [TSS], chloride, fluoride, sulfate, ortho-phosphate, ammonia, nitrate, nitrite, and total alkalinity). Additional surface water samples were collected by Ramboll Environ in April 2015 from the COH Bird Viewing Ponds. Data from both sampling events were then compared to samples collected from stations LW5.5, LW6.05, and LW8.85 in Las Vegas Wash by the Bureau of Reclamation in 2012 (Bureau of Reclamation 2014).

An initial analysis of these data suggests that three distinct water types (groundwater, Las Vegas Wash water, and water from the COH Bird Viewing Ponds) are likely mixing at the SWF. Figure 35a shows a complete Piper diagram of these cation-anion data, while Figure 35b presents a modified version of the upper portion of the Piper diagram that shows the water type distinctions more clearly. The relative composition of major ions shown in Figure 35b suggests that the perchlorate plume's relatively high TDS groundwater, which is represented by ART-9, ART-4A, and MW-K4, is chemically distinct from the closely grouped water samples of relatively low TDS water collected from Las Vegas Wash (LW 5.5, LW 6.05, and LW 8.85) and the COH Bird Viewing Ponds (BP-01 through BP-09). In addition, the distribution of data in Figure 35b indicates water from Las Vegas Wash is chemically distinct from water from the COH Bird Viewing Ponds. The distribution of data from wells in or near the SWF (PC-62, PC-91, PC-97, PC-117, PC-119,

PC-121, and PC-133) suggests that groundwater extracted from the well field is from a combination of these three distinct sources.

The amount of water originating at the COH Bird Viewing Ponds and subsequently captured by the SWF was quantified using the Phase III Model presented as Attachment A. Under second quarter 2015 conditions, the Phase III Model indicates that approximately 40% of water extracted at the SWF originates from the COH Bird Viewing Ponds (ENVIRON 2015b). Results of a simple mixing calculation between surface water (either from the COH Bird Viewing Ponds or the Las Vegas Wash) and groundwater using TDS as an indicator compound, originally presented as part of the 2013 GWETS Optimization Report (ENVIRON 2015b), supported the findings of the model. The calculations suggested that wells in the western portion of the SWF (wells PC-119, PC-118, and PC-115R) are pumping significant amounts of water (up to about 80%) from nearby surface water sources. Based on the location of the wells, it is likely that the primary source of this water is the COH Bird Viewing Ponds. In the middle portion of the SWF (wells PC-99R2/R3 and PC-116R) approximately 20-40% of the pumped water is likely from nearby surface water sources. In the eastern portion of the well field (wells PC-117 and PC-133), the portion of the water coming from nearby surface water sources likely ranges from approximately 40-60%, which may be due to surface water drawn in from the Las Vegas Wash (ENVIRON 2015b). The use of TDS alone as a tracer cannot differentiate COH Bird Viewing Pond water from Las Vegas Wash water.

In response to the 2014 Semi-Annual Remedial Performance Report, NDEP requested that the Trust refine estimates of the sources of SWF flow by quantifying individual contributions of the Las Vegas Wash and the COH Bird Viewing Ponds to SWF extraction. Ramboll Environ is currently developing an approach for additional sampling of the SWF, the Las Vegas Wash, and the COH Bird Viewing Ponds. Conductance, temperature, and depth (CTD) loggers will also be deployed in the vicinity of the SWF and the Las Vegas Wash to address data gaps prohibiting adequate quantification of flows. This work is currently scheduled for first quarter 2016 and will be used to support the Phase 4 groundwater modeling efforts.

6.4.5 Environmental Footprint

Based on information compiled for the July 2014 to June 2015 environmental footprint analysis, which documents energy and materials used at the Site, the GWETS used approximately 3.9 million kilowatt hours per year (kWh/yr) and the wells and pump stations used approximately 1.4 million kWh/yr.[22] Monthly energy use by the GWETS varied from 301,807 to 335,288 kWh between July 2014 and June 2015. Monthly use by the wells and lift stations varied from 104,020 to 127,120 kWh during the same period. During the July 2014 to June 2015 performance period, approximately 10.3 kWh of electricity were used for each pound of perchlorate removed, which is consistent with the 10.4 kWh of electricity used per pound of perchlorate removed from July 2013 to June 2014.

[22] This information was initially requested by NDEP and the USEPA as part of the 2011-2012 Footprint Analysis (ENVIRON 2013b).

6.4.6 GW-11's Operation as an Equalization Basin

As previously discussed, GW-11's use as an equalization basin was temporarily halted on August 6, 2014 after plugging of filtration equipment. During the current reporting period, modifications to the intake filtration system enabled GW-11 to begin operating as an equalization basin on January 6, 2015. The system was taken offline again from January 29 to February 4, 2015 to perform additional modifications to the filtration system and from April 8 to April 10, 2015 during installation of the new GW-11 influent flow meter and sample tap as part of the Enhanced Operational Metrics project. In their April 9, 2014 comments on the 2013 Semi-Annual Performance Report (NDEP 2014a), NDEP requested a full analytical assessment (e.g., perchlorate, chlorate, nitrate, chloride, sulfate, ammonia, phosphorus, calcium, iron, total chromium, hexavalent chromium, TDS, TSS, and pH) of water in the GW-11 pond prior to its use as an equalization basin. Envirogen collected an initial composite sample of GW-11 water on March 27, 2014, the day GW-11 began operating as an equalization basin.[23] The initial sample was analyzed for all of the requested analytes with the exception of ammonia.

In ENVIRON's June 30, 2014 response to NDEP comments on the 2013 Semi-Annual Performance Report, ENVIRON (now known as Ramboll Environ) indicated that GW-11 would be monitored for the requested analytes and other parameters (water volume, level, and flow rate) on a monthly basis and reported in the Annual and Semi-Annual Performance Reports. As shown in Table 12, GW-11 water volume and level were monitored on an approximately weekly to bi-weekly basis during the reporting period and average influent and effluent flow were calculated on a monthly basis. Estimated evaporation rates for GW-11, which were calculated using the pond's surface area and published pan evaporation rates (Shevenell 1996), were also included to more fully explain changes in GW-11's volume (e.g., decreasing water volume despite greater influent than effluent flow). The total volume of water in GW-11 increased by approximately 12.6 million gallons during the reporting period from a low of approximately 35.8 million gallons in early July 2014 to 48.4 million gallons in late June 2015, reaching a maximum volume of 49.8 million gallons in March 2015. GW-11 was operating as an equalization basin from January 2015 through the end of the reporting period, causing an increase in influent flow during this timeframe. Additional influent to the pond included diversions of FBR effluent and well field influent, as well as backwash from various maintenance operations.

As presented in Table 13, between March and December 2014 Envirogen collected approximately monthly single-point grab samples via the GW-11 effluent piping, which were analyzed for a reduced list of analytes (perchlorate, chlorate, nitrate, total chromium, and hexavalent chromium). In late July 2014, Tetra Tech[24] initiated collection of four-point composite samples which were analyzed for the full suite of requested analytes. An initial sample was collected on July 25, 2014 via bailer, however, it was determined that permanent sampling tubes needed to be installed to address safety

[23] GW-11 monitoring was originally requested by NDEP via email on March 26, 2014, prior to start-up of GW-11 as an equalization basin (NDEP 2014a).

[24] Starting in May 2014, Tetra Tech began overseeing Envirogen's groundwater sampling activities and operation of the GWETS.

concerns related to collecting samples from the pond corners. Once the sampling tubes were installed in early September, sampling was re-initiated with a four-point composite sample collected from the pond corners on September 4, 2014, and analyzed for the full list of requested analytes. GW-11 sampling was interrupted in August 2014 after the pond's use as an equalization basin was temporary halted. Monthly sampling for the full analyte list was reinitiated after GW-11 began operating as an equalization basin on January 6, 2015. The perchlorate mass in GW-11 presented in Table 14 was calculated using perchlorate concentration data (as presented in Table 12) and GW-11 pond volume data (presented in Table 13). Measured perchlorate concentrations ranged from 44 mg/L to 130 mg/L during the reporting period, with the lowest concentrations observed from November 2014 to January 2015. As noted above, GW-11 was not operating as an equalization basin from August 2014 to January 2015. Based on discussions with Envirogen, it is believed that these lower concentrations are due to inputs of relatively clean water from effluent diversions and backwashing events during this time frame compounded by the lack of inflow of perchlorate-containing groundwater from the well fields.

In addition to regular analytical monitoring of GW-11, Tetra Tech continues to evaluate the integrity of GW-11 leak detection pipes and the primary and secondary pond liners, as described in the monthly GWETS Operation Reports submitted by Tetra Tech to NDEP. In May 2015, leakage rate tests were completed in each of the GW-11 corner sump wells. Recorded daily leakage rates ranged from 32.2 to 68.2 gallons/acre-day. Dye Tracer tests initiated in April indicated the integrity of the secondary liner appears to be sound. On June 8, 2015, the NDEP Bureau of Water Pollution Control (BWPC) directed the Trust to develop a plan to identify the source of leakage in GW-11 and address the leakage should the rate exceed 250 gallons/acre-day. A work plan to address this request entitled "GW-11 Pond Liner System Leak Location and Repair Work Plan" was submitted to the BWPC on June 29, 2015.

6.4.7 Analysis of Barrier Wall Performance

Performance of the barrier wall at the IWF was evaluated using groundwater elevation data from wells immediately upgradient and downgradient of the barrier, as well as perchlorate concentration data in these same wells. Groundwater elevation data were plotted over time for the same paired wells presented in Figures 2a through 2f. As shown on Figures 36a through 36f, perchlorate concentration data have been added to these hydrographs for the downgradient wells and for additional extraction wells upgradient of the barrier wall. These data are presented in Figures 36a through 36f.

The primary measure of the barrier wall's effectiveness is the change in potentiometric surface across the wall (i.e., the difference in water elevations between the upgradient and downgradient wells). During this period of performance, the elevation difference ranged from 5 to 12 feet, with the lowest elevation difference on the west side of the barrier wall near the M-167/M-69 well pair (Figure 36a) and the highest elevation difference on the east side of the barrier wall near the M-67/M-73 well pair (Figure 36e). While water elevations vary in response to precipitation events in the vicinity of the IWF, the relative elevations in the well pairs has remained reasonably constant (i.e., the groundwater elevations in the upgradient and downgradient wells rise and fall in

tandem). Prior to September 2008, the elevation differences were more variable due to the operation of the recharge trenches.

Although the hydraulic data suggest that the barrier wall is an effective barrier to groundwater flow, concentrations in downgradient wells have increased since the end of 2012, most notably in M-69, M-70, and M-71. The increases in concentration in downgradient wells follow similar trends as those in the upgradient wells. As discussed in the 2012-2013 Annual and 2013 Semi-Annual Reports, these increased concentrations were believed to be related to mobilization of soil-bound perchlorate as a result of heavy rains in the fall and winter of 2012 (ENVIRON 2013c; ENVIRON 2014a).

An initial evaluation of barrier wall effectiveness included in the 2013-2014 Annual Performance Report concluded that although the concentration data is consistent with leakage past the wall, the hydraulic data do not support this interpretation. For leakage to occur, it is expected that there first be a hydraulic response (an increase in head) in the upgradient wells followed by a similar hydraulic response in the downgradient wells. In fact, the data show the opposite—the hydraulic response is seen first in the downgradient wells.

During the current report period perchlorate concentrations and groundwater elevations have generally continued to decrease on both sides of the wall, indicating a gradual return to conditions that existed prior to November 2012. Water levels increased on the east end of the barrier wall during 2014, although water levels in this area decreased slightly at the end of the current reporting period. The localized increase in water levels is likely due to emplacement of TIMET's barrier wall to the east in March 2014 (GEI 2015). The performance of the barrier wall as part of the overall long-term remedy will be evaluated, including the potential to re-initiate artificial recharge via trenches or other means, as part of the Feasibility Study.

6.5 Summary of GWETS Performance Evaluation

A summary of the performance metrics is shown in Table 15. The performance metrics for GWETS described above will be used to adjust the operation of the GWETS to more effectively and efficiently meet the performance objectives during the COP. The assumptions used in calculation of the metrics, which are described throughout Section 6.4, were also reviewed as part of the Phase III Model Refinement in Attachment A

6.6 Continuous Optimization Program

In January 2015, NDEP required the Trust to initiate a COP to enhance the performance and efficiency of the GWETS (NDEP 2015a). In support of the COP, various data compilation and evaluation tasks have been initiated, including a subsurface conditions evaluation, a hydrogeologic evaluation, and an evaluation of extraction system infrastructure, capacity, and technology.

In May through August 2015, Ramboll Environ conducted a subsurface conditions evaluation and a hydrogeologic evaluation in order to compile and evaluate pertinent historical data regarding hydrogeologic conditions at the Site and in the Downgradient Plume Area. The subsurface conditions evaluation included the compilation of extensive

historical data regarding soil boring and well construction details, and the refinement of the interpretation of subsurface conditions, including updated interpretations of the paleochannel configuration and the contact surface between the UMCf and the Qal. The hydrogeologic evaluation included compilation of previously conducted aquifer testing in each groundwater bearing zone, analysis of the variance of hydraulic conductivity across each extraction well field, and an evaluation of previous capture zone analyses to identify limitations or constraints that would affect the reliability of capture zone results. Based on these evaluations, additional recommendations have been made to address identified data gaps. The groundwater model has also been refined based on the conclusions of these evaluations, as discussed in Attachment A.

In August 2015, Tetra Tech submitted the Infrastructure Audit and Data Accessibility Report for the GWETS on behalf of the Trust to NDEP (Tetra Tech 2015d). This report reviewed potential limitations to utilizing the full capacity of the GWETS, including the influent and effluent pipelines; the existing NPDES permit; the pumping capacity of Lift Stations 1, 2, and 3; and the GWTP hydraulic and mass loading capacity. Recommendations for near-term implementation were made to address potential deficiencies, including the establishment of a well pump maintenance program to improve accuracy of pumping records, the installation of a larger backup pump at Lift Station 2 to accommodate both SWF and AWF flows, evaluation of the effluent pump and pipeline system to identify physical limitations, installation of equipment to improve GW-11 inflow and pond stage measurements, and installation of network infrastructure to allow for accessing recent GWETS data via the web.

The conclusions drawn from these efforts have been incorporated into the Phase III Model Refinement, as described in Attachment A, and will also inform future groundwater modeling efforts, including development of the transient Phase 5 Model. Additional recommendations regarding well field equipment, lift station pumps, the effluent pump station, pipelines, the GWTP, and the FBR treatment plant will be evaluated during optimization of the well field extraction rates being performed as part of the COP. Data compilation from the COP will also be incorporated into three-dimensional (3D) visualization tools, which will be used to further refine and understand the conceptual site model. Furthermore, NERT is in the process of adjusting groundwater extraction rates at the AWF in order to remove additional perchlorate from the environment as part of the COP.

7. CONCLUSIONS

The GWETS consists of three groundwater capture well fields: the IWF, the AWF, and the SWF. The IWF coupled with the barrier wall provides capture of the highest concentrations of perchlorate and chromium at the Site and significantly reduces the amount of perchlorate and chromium in downgradient groundwater. The off-site AWF, located approximately 8,200 feet downgradient of the IWF, has operated since October 2002. The AWF captures significantly lower concentrations of both perchlorate and chromium, but operates at higher extraction rates compared with the IWF and contributes significantly to the overall mass of perchlorate removed from the environment and mitigates its migration in groundwater. The SWF, located over a broad alluvium channel in close proximity to Las Vegas Wash, operates at the highest flow rate (average of 536.0 gpm between July 2014 and June 2015) compared with the IWF (68.7 gpm) and the AWF (285.6 gpm), but captures groundwater containing significantly lower perchlorate concentrations.

Treatment of chromium-contaminated groundwater captured by the IWF occurs via the on-site GWTP, which chemically reduces hexavalent chromium and removes total chromium. Treatment of perchlorate-contaminated groundwater from all well fields occurs via the on-site FBRs, which biologically remove perchlorate as well as chlorate and nitrate. The FBRs also remove lesser amounts of residual chromium.

For the 12-month period ending in June 2015, the capture of chromium-contaminated groundwater at the IWF, and treatment at the on-site GWTP, has removed approximately 2,270 pounds of chromium. Adding the approximately 210 pounds of chromium removed by the FBRs for the same period, a total of approximately 2,480 pounds of chromium were removed from groundwater between July 2014 and June 2015.

For the same 12-month period, the capture of perchlorate-contaminated groundwater from all three well fields, and biological treatment in the on-site FBRs, has removed a total of approximately 508,200 pounds of perchlorate from the environment. This was a 3.1% decrease from 524,500 pounds of perchlorate removed during 12-month period ending in June 2014. The decrease in removal is primarily the result of decreasing average perchlorate concentrations, particularly in groundwater extracted from the AWF.

The performance metrics developed as part of the 2013 GWETS Optimization Project and described in Section 6 will continue to be used for quantitatively evaluating performance of the GWETS on a comparative basis moving forward. As discussed in Section 6.4.1, the plume interpretation was altered this year to incorporate available shallow groundwater data from the RI and information from the COP subsurface evaluations. As a result, plume mass estimates have changed considerably from previous years. Therefore, the current mass estimates (although more accurate) are not comparable to previous estimates. The COP is being implemented and will be summarized in subsequent performance reports, as described in Section 6.6.

During the current reporting period, GW-11 was taken out of service as an equalization basin on August 6, 2014 due to problems with filtration. Modifications to the filtration

system were implemented in January 2015, at which point GW-11 began operating again as an equalization basin through the end of the reporting period.

Following construction and installation of new pipelines at the AWF, wells ART-7B and PC-150 began operating as extraction wells in October and November, 2014, respectively. Additional optimization and well testing work completed as part of the 2013 GWETS Optimization Project is now complete and was described in Attachment A of the 2014 Semi-Annual Performance Report (ENVIRON 2015b). Future optimization efforts will be performed as part of the COP. Currently, an initial evaluation and optimization of the AWF is being implemented at the AWF, as described in Section 6.4.

The distribution of chromium, perchlorate, and TDS has been evaluated by considering data collected as part of the ongoing RI in addition to data obtained through the groundwater monitoring program. As discussed in Section 4, this evaluation has changed the configuration of the perchlorate plume compared to prior interpretations. Based on this information it appears that the AWF is capturing portions of the AMPAC plume. Downgradient groundwater conditions will be further examined to determine the extent of contamination migrating from the NERT site.

8. PROPOSED FUTURE ACTIVITIES

With the exception of the RI activities associated with the Unit 4 and 5 Buildings, field activities related to the initial phase of the RI have been completed. Information from the groundwater, soil, and soil gas sampling programs will be incorporated into an interim RI technical memorandum and ultimately, the RI Report. Additional field investigations may be recommended following RI data evaluation. Ramboll Environ also anticipates refining the steady state groundwater model (Phase 4 model) and submitting it with the 2015 Semi-Annual Remedial Performance Report in April 2016.

As a number of new groundwater wells have been installed during the RI to address data gaps in the understanding of groundwater conditions at the Site and in the NERT Downgradient Plume Area, a logical next step is to evaluate and determine which of these new wells will be incorporated into the groundwater monitoring program. Therefore, during first quarter 2016, Ramboll Environ anticipates performing a comprehensive review of the groundwater monitoring program in an effort to address data gaps, enhance data quality, reduce data redundancies, and optimize the monitoring well network. The overall goal of the review will be to offer recommendations that will result in an improved groundwater monitoring program that is aligned with our current understanding of the conceptual site model and that is optimized to reduce inefficiencies. Evaluation of newly-acquired RI data will provide the basis for potential recommendations to expand the list of analytes (and where to do so) and whether sampling methods need to be changed. A report describing the findings from this review will be included as an attachment to the forthcoming 2015 Semi-Annual Remedial Performance Report.

Also anticipated in first quarter 2016 is the implementation of sampling of the SWF, the Las Vegas Wash, and the COH Bird Viewing Ponds for certain geochemical parameters in order to address NDEP's request for quantification of source water flows into the SWF intended to support the Phase 4 groundwater modeling efforts. CTD loggers will also be deployed in the vicinity of the SWF and the Las Vegas Wash and monitored telemetrically to address known data gaps prohibiting adequate quantification of flows. The findings of this investigation will be discussed in the 2015 Semi-Annual Remedial Performance Report.

Other proposed future activities include implementation of various tasks in support of the COP, including further evaluation of hydrogeologic data, refinement of the subsurface geologic model, development of three-dimensional visualization tools, development of optimized extraction rates using the model, and retrofits to existing GWETS equipment, as described in Section 6.6. The implementation of the Enhanced Operational Metrics Work Plan (Tetra Tech 2014a) is currently underway, which will bring online enhanced flow and water level measurement and control capabilities. The data resulting from the enhanced operation metrics will be reported as part of the ongoing monthly GWETS reporting.

In addition to the ongoing groundwater monitoring program and operation of the GWETS by NERT, NDEP is planning a downgradient investigation expanding upon the NERT RI. The NDEP downgradient RI is intended to determine the extent of elevated constituents migrating from the Site outside of the Downgradient Plume Area included within the

scope of the NERT RI. It is currently anticipated that the results of the NERT and NDEP RIs will be reported in a single RI Report.

9. REFERENCES

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TABLES

TABLE 1: INTERCEPTOR WELL FIELD DISCHARGE RATES

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	July 2010-June 2011 (gpm)	July 2011-June 2012 (gpm)	July 2012-June 2013 (gpm)	July 2013-June 2014 (gpm)	July 2014-June 2015 (gpm)	Well Screened In
I-AA	-	-	-	0.1	1.0	Qal/UMCf
I-AB	-	-	-	0.0	0.0	Qal/UMCf
I-AC	-	-	-	0.0	0.0	Qal/UMCf
I-AD	-	-	-	0.0	0.0	Qal/UMCf
I-AR	0.8	1.1	1.4	1.1	0.8	Qal/UMCf
I-B	2.5	1.5	1.6	1.5	1.1	Qal/UMCf
I-C	4.1	5.9	5.1	5.5	5.6	Qal/UMCf
I-D	4.2	1.3	1.7	2.0	1.9	Qal/UMCf
I-E	1.5	1.3	2.1	2.7	1.2	Qal/UMCf
I-F	4.1	5.7	4.5	4.7	4.2	Qal/UMCf
I-G	0.3	0.1	0.5	0.9	0.2	Qal/UMCf
I-H	0.9	0.9	1.0	0.8	1.2	Qal/UMCf
I-I	5.1	5.0	4.7	4.8	4.7	Qal/UMCf
I-J	7.3	6.3	6.0	6.6	4.8	Qal/UMCf
I-K	4.0	3.9	3.3	4.0	4.6	Qal/UMCf
I-L	1.5	1.9	1.9	1.5	2.8	Qal/UMCf
I-M	2.2	2.6	4.0	2.2	2.5	Qal/UMCf
I-N	3.7	3.1	2.7	1.7	2.6	Qal/UMCf
I-O	2.8	1.7	2.7	1.5	2.1	Qal/UMCf
I-P	3.4	2.1	3.7	5.1	2.8	Qal/UMCf
I-Q	0.6	0.3	0.2	0.7	0.5	Qal/UMCf
I-R	1.2	2.5	2.9	3.3	2.5	Qal/UMCf
I-S	6.1	5.2	4.0	4.0	4.9	Qal/UMCf
I-T	0.4	0.4	0.4	0.4	0.4	Qal/UMCf
I-U	0.8	0.7	0.8	1.0	0.9	Qal/UMCf
I-V	4.0	4.8	5.4	5.7	5.1	Qal/UMCf
I-W	-	-	-	0.1	0.8	Qal/UMCf
I-X	-	-	-	0.5	3.0	Qal/UMCf
I-Y	-	-	-	0.1	1.5	Qal/UMCf
I-Z	7.3	6.7	8.0	7.5	5.2	Qal/UMCf
TOTAL	**68.9**	**65.2**	**68.6**	**70.1**	**68.7**	

Notes:

Pumping rates are presented as annual averages.

- = Well not pumping

gpm = gallons per minute

Qal = Quaternary Alluvium

UMCf = Upper Muddy Creek Formation (first fine-grained unit)

TABLE 2: ATHENS ROAD WELL FIELD DISCHARGE RATES

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	July 2010-June 2011 (gpm)	July 2011-June 2012 (gpm)	July 2012-June 2013 (gpm)	July 2013-June 2014 (gpm)	July 2014-June 2015 (gpm)	Well Screened In
ART-1/1A	16.5	14.1	22.0	23.4	14.6	Qal
ART-2/2A	62.2	62.4	62.2	61.6	60.9	Qal
ART-3/3A	46.8	46.8	45.8	47.3	44.4	Qal
ART-4/4A	7.9	8.5	8.3	10.0	15.0	Qal
ART-7/7A/7B[1]	31.2	31.2	31.1	30.9	30.3	Qal
ART-8/8A	61.8	62.7	62.2	60.0	63.7	Qal
ART-9[2]	46.7	46.7	49.1	46.4	53.9	Qal
PC-150[1]	-	-	-	-	2.8	Qal
TOTAL	**273.1**	**272.4**	**280.6**	**279.6**	**285.6**	

Notes:

Pumping rates are presented as annual averages.

- = Well not pumping

ART-1, 2, 3, 4, 7, and 8 have adjacent recovery wells - "Buddy Wells" - designated by the letter "A".

[1]ART-7B and PC-150 were activated as part of the 2013 GWETS Optimization project; ART-7B began pumping in October 2014 and PC-150 began pumping in November 2014.

[2]Starting in September 2006, ART-9 replaced the pumping of ART-6/6A due to the low water levels in that well pair. The electrical and plumbing system from ART-6A was removed and is being used in ART-9.

gpm = gallons per minute

Qal = Quaternary Alluvium

TABLE 3: SEEP WELL FIELD DISCHARGE RATES

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	July 2010-June 2011 (gpm)	July 2011-June 2012 (gpm)	July 2012-June 2013 (gpm)	July 2013-June 2014 (gpm)	July 2014-June 2015 (gpm)	Well Screened In
PC-116R	132.5	124.8	124.5	123.2	133.7	Qal
PC-99R2/R3[1]	64.0	61.6	54.4	61.0	66.5	Qal
PC-115R	82.8	91.4	95.7	88.4	95.9	Qal
PC-117	98.9	92.6	124.6	96.8	99.7	Qal
PC-118	70.6	76.3	93.3	67.3	76.9	Qal
PC-119	62.8	65.0	87.6	63.5	59.0	Qal
PC-120[2]	3.2	0.0	0.1	0.4	0.0	Qal
PC-121[2]	1.0	0.0	0.1	0.0	0.0	Qal
PC-133	5.1	3.1	4.3	4.3	4.2	Qal
TOTAL	**520.9**	**514.9**	**584.6**	**504.9**	**536.0**	

Notes:

Pumping rates are presented as annual averages.

[1]Wells PC-99R2 and PC-99R3 are connected and operate as a single pumping well.

[2]Wells PC-120 and PC-121 have not been continuously pumped since October 2005 due to their low perchlorate removal efficiencies and because they are located at the end of the well line in the shallowest portion of the subsurface alluvial channel.

gpm = gallons per minute

Qal = Quaternary Alluvium

TABLE 4: MONTHLY WELL FIELD DISCHARGE RATES, JULY 2014 - JUNE 2015

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	July 2014 (gpm)	August 2014 (gpm)	September 2014 (gpm)	October 2014 (gpm)	November 2014 (gpm)	December 2014 (gpm)	January 2015 (gpm)	February 2015 (gpm)	March 2015 (gpm)	April 2015 (gpm)	May 2015 (gpm)	June 2015 (gpm)
Interceptor Well Field (IWF)												
I-AA	0.3	0.9	1.4	1.4	1.3	1.2	1.3	0.8	0.8	0.9	1.3	0.7
I-AB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I-AC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I-AD	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I-AR	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
I-B	1.4	1.3	1.1	1.1	1.1	1.0	1.1	1.1	1.2	1.1	1.0	1.0
I-C	6.7	5.8	5.9	5.7	5.5	6.1	6.0	5.4	4.7	4.6	5.3	5.2
I-D	2.6	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6
I-E	1.6	1.4	1.3	1.3	1.2	0.9	1.1	1.2	1.2	1.1	1.1	1.2
I-F	4.4	4.4	4.1	4.0	4.2	4.5	4.4	4.6	4.1	3.6	4.2	3.9
I-G	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
I-H	1.3	1.4	1.4	1.4	1.5	1.3	1.1	1.0	0.9	0.9	0.8	0.8
I-I	4.5	4.8	4.7	4.6	4.7	4.7	4.8	4.8	4.8	4.6	4.8	4.9
I-J	2.5	2.6	2.6	2.6	2.6	5.6	6.7	6.4	6.6	6.4	6.5	6.6
I-K	4.7	5.0	5.1	5.3	5.3	4.8	4.3	4.2	4.1	3.9	4.0	3.9
I-L	2.9	2.4	2.2	2.2	2.4	2.4	2.6	2.9	3.3	3.3	3.2	3.2
I-M	3.1	2.9	2.7	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.4	2.4
I-N	3.1	3.1	3.0	3.0	2.5	1.9	1.8	1.5	2.4	2.6	2.9	2.8
I-O	2.5	2.5	2.6	2.8	2.9	2.5	1.7	1.7	1.5	1.5	1.3	1.5
I-P	3.5	3.8	3.9	3.9	4.0	3.1	2.2	2.2	2.0	1.9	1.8	1.7
I-Q	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4
I-R	2.9	2.7	2.6	2.6	2.6	2.3	2.3	2.4	2.5	2.3	2.4	2.4
I-S	5.0	4.9	5.1	5.2	5.1	5.0	5.2	5.0	4.3	4.4	4.6	4.8
I-T	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4
I-U	0.8	0.8	0.9	0.9	0.9	0.9	1.0	0.9	0.9	0.9	1.0	0.9
I-V	5.6	5.7	5.7	5.6	5.6	5.2	5.1	5.0	4.8	4.5	4.6	3.9
I-W	0.9	0.9	1.1	1.1	1.0	1.0	1.0	0.8	0.7	0.4	0.4	0.5
I-X	4.3	3.4	3.1	3.1	3.2	3.3	3.3	3.4	3.2	2.9	1.5	1.8
I-Y	1.4	1.4	1.4	1.4	1.5	1.3	1.5	1.6	1.6	1.6	1.5	1.3
I-Z	3.7	2.7	2.7	2.8	2.7	6.0	7.3	7.3	7.1	6.9	6.9	5.9
Total for IWF:	**71.9**	**69.0**	**68.5**	**68.3**	**67.9**	**71.5**	**71.4**	**70.1**	**68.4**	**66.1**	**67.1**	**64.7**

TABLE 4: MONTHLY WELL FIELD DISCHARGE RATES, JULY 2014 - JUNE 2015

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	July 2014 (gpm)	August 2014 (gpm)	September 2014 (gpm)	October 2014 (gpm)	November 2014 (gpm)	December 2014 (gpm)	January 2015 (gpm)	February 2015 (gpm)	March 2015 (gpm)	April 2015 (gpm)	May 2015 (gpm)	June 2015 (gpm)
Athens Road Well Field (AWF)												
ART-1/1A	23.4	23.4	23.6	23.1	20.9	11.7	8.5	8.6	7.8	7.8	7.8	7.8
ART-2/2A	61.0	62.0	62.5	62.3	52.2	57.9	62.2	62.0	62.0	62.5	62.4	62.5
ART-3/3A	43.3	46.3	46.6	43.6	45.0	45.6	42.8	43.4	44.6	44.4	43.8	43.4
ART-4/4A	11.5	15.4	15.6	15.8	15.6	15.6	15.5	13.3	15.1	15.4	15.7	15.7
ART-7/7A/7B	30.5	31.0	31.3	30.9	30.2	31.0	29.8	31.0	30.3	29.7	29.4	28.3
ART-8/8A	66.4	62.0	62.5	62.9	65.0	62.3	71.2	62.4	62.0	62.5	62.4	62.5
ART-9	45.4	47.9	50.8	50.6	45.7	55.0	49.1	58.8	60.9	60.4	59.9	62.5
PC-150	-	-	-	-	2.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Total for AWF:	**281.5**	**288.1**	**292.8**	**289.2**	**277.5**	**283.7**	**283.6**	**283.9**	**287.4**	**287.1**	**285.8**	**287.0**
Seep Well Field (SWF)												
PC-116R	124.8	124.0	124.8	124.5	125.1	124.9	124.5	150.8	153.3	147.8	137.2	144.5
PC-99R2/R3	62.4	62.0	62.3	62.2	62.5	62.5	62.5	87.8	85.9	64.9	62.5	62.3
PC-115R	89.7	96.0	98.9	92.4	98.7	95.4	96.2	105.1	100.8	102.9	88.1	87.9
PC-117	91.6	93.1	93.6	93.6	93.8	93.7	94.3	119.9	121.2	115.3	94.2	93.7
PC-118	70.8	77.6	78.0	77.8	78.1	78.0	75.6	78.0	77.5	76.2	77.0	78.1
PC-119	62.9	62.1	62.4	62.3	62.5	62.5	62.2	49.9	47.1	47.8	62.9	62.5
PC-120[1]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
PC-121[1]	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
PC-133	4.2	4.2	4.2	4.2	4.2	4.1	4.2	4.2	4.2	4.2	4.2	4.3
Total for SWF:	**506.4**	**519.1**	**524.2**	**517.0**	**525.1**	**521.1**	**519.7**	**595.8**	**590.2**	**559.0**	**526.0**	**533.4**

Notes:

Pumping rates are presented as monthly averages.

- = Well not pumping

gpm = gallons per minute

[1]Wells PC-120 and PC-121 have not been continuously pumped since October 2005 due to their low perchlorate removal efficiencies and because they are located at the end of the well line in the shallowest portion of the subsurface alluvial channel.

TABLE 5: CHROMIUM TREATMENT DATA FOR THE GWTP, JULY 2014 - JUNE 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Month	Average Flow to GWTP (gpm)	Average Total Cr Inflow[1] (mg/L)	Average Total Cr Outflow[2] (mg/L)	Average Total Cr Removed (lbs/day)	Total Cr Removed (lbs/month)
July 2014	71.9	8.1	0.53	7.00	217.1
August 2014	69.0	8.2	0.62	6.80	210.7
September 2014	68.5	7.9	1.31	6.50	195.0
October 2014	68.3	8.1	0.30	6.68	207.1
November 2014	67.9	8.1	0.70	6.59	197.6
December 2014	71.5	7.7	0.50	6.63	205.5
January 2015	71.0	7.5	0.36	6.19	192
February 2015	70.0	7.6	0.44	6.11	171
March 2015	68.0	7.5	0.50	5.84	181
April 2015	66.0	7.4	0.61	5.43	163
May 2015	67.0	7.4	1.24	4.87	151
June 2015	66.0	7.4	0.23	5.87	176
				Estimated Chromium Removed by GWTP:	**2,270**
				Estimated Chromium Removed by FBRs:	**210**
				Estimated Total Chromium Removed:	**2,480**

Notes:

All values presented in Table 5 for January - June 2015 were calculated by Tetra Tech.
Estimated removal rates are rounded to the nearest 10 pounds.

[1] Hexavalent chromium is used as a surrogate for total chromium in inflow calculations for July -December 2014.

[2] Treated Outflow is directed to Bioplant Equalization Area and Carbon Treatment before being fed to the Fluidized Bed Reactors (FBRs).

Cr = chromium

FBR = fluidized bed reactor

GWTP = groundwater treatment plant

gpm = gallons per minute

lbs = pounds

mg/L = milligrams per liter

TABLE 6: WEEKLY CHROMIUM IN FBR INFLUENT AND EFFLUENT, JULY 2014- JUNE 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/ Effluent	Total Chromium EPA 200.7 (mg/L)	Total Chromium SQL (mg/L)	Hexavalent Chromium EPA 218.6 (mg/L)	Hexavalent Chromium SQL (mg/L)
7/8/2014	INFLUENT	0.017	0.0025	0.0073	0.00025
7/8/2014	INFLUENT	0.022	0.0025	0.0073	0.00025
7/8/2014	EFFLUENT	0.0089	0.0025	<0.00025	0.00025
7/8/2014	EFFLUENT	0.015	0.0025	<0.00025	0.00025
7/15/2014	INFLUENT	0.023	0.0050	0.012 H	0.00025
7/15/2014	EFFLUENT	0.020	0.0025	<0.00025	0.00025
7/21/2014	INFLUENT	0.030	0.0025	0.023	0.00025
7/21/2014	EFFLUENT	0.020	0.0025	<0.00025	0.00025
7/28/2014	INFLUENT	0.028	0.0025	0.018	0.00025
7/28/2014	EFFLUENT	0.014	0.0025	<0.00025	0.00025
8/4/2014	INFLUENT	0.044	0.013	0.0060	0.00025
8/4/2014	EFFLUENT	0.034	0.013	<0.00025	0.00025
8/11/2014	INFLUENT	0.089	0.0025	0.0016	0.00025
8/11/2014	EFFLUENT	0.012	0.0025	<0.00025	0.00025
8/18/2014	INFLUENT	0.025	0.0025	0.00082 J	0.00025
8/18/2014	EFFLUENT	0.0064	0.0025	<0.00025	0.00025
8/25/2014	INFLUENT	0.028	0.0025	0.00092 J	0.00025
8/25/2014	EFFLUENT	0.0059	0.0025	<0.00025	0.00025
9/2/2014	INFLUENT	0.21	0.0025	0.025	0.00025
9/2/2014	EFFLUENT	0.017	0.0025	<0.00025	0.00025
9/8/2014	INFLUENT	0.090	0.0025	0.032	0.00025
9/8/2014	EFFLUENT	0.017	0.0025	<0.00025	0.00025
9/15/2014	INFLUENT	0.023	0.0025	0.0064	0.00025
9/15/2014	EFFLUENT	0.021	0.0025	<0.00025	0.00025
9/22/2014	INFLUENT	0.046	0.0025	0.020	0.00025
9/22/2014	EFFLUENT	0.0065	0.0025	<0.00025	0.00025
9/29/2014	INFLUENT	0.35	0.0025	0.076	0.00025
9/29/2014	EFFLUENT	0.029	0.0025	<0.00025	0.00025
10/6/2014	INFLUENT	0.096 B	0.0025	0.079	0.00025
10/6/2014	EFFLUENT	0.025 B	0.0025	<0.00025	0.00025
10/13/2014	INFLUENT	0.13	0.0025	0.087	0.00025
10/13/2014	INFLUENT	0.14	0.0025	0.087	0.00025
10/13/2014	EFFLUENT	0.026	0.0025	<0.00025	0.00025
10/13/2014	EFFLUENT	0.027	0.0025	<0.00025	0.00025
10/20/2014	INFLUENT	0.11	0.0025	0.078	0.00025
10/20/2014	EFFLUENT	0.010	0.0025	<0.00025	0.00025
10/27/2014	INFLUENT	0.092	0.0025	0.086	0.00025
10/27/2014	EFFLUENT	0.0088 J	0.0050	<0.00025	0.00025
11/3/2014	INFLUENT	0.12	0.0025	0.058	0.00025
11/3/2014	EFFLUENT	0.016	0.0025	<0.00025	0.00025
11/10/2014	INFLUENT	0.067	0.0025	0.060	0.00025
11/10/2014	EFFLUENT	0.0076	0.0025	<0.00025	0.00025
11/17/2014	INFLUENT	0.13	0.0025	0.10	0.00025
11/17/2014	EFFLUENT	0.012	0.0025	<0.00025	0.00025
11/24/2014	INFLUENT	0.083	0.0025	0.051	0.00025
11/24/2014	EFFLUENT	0.0099	0.0025	<0.00025	0.00025

TABLE 6: WEEKLY CHROMIUM IN FBR INFLUENT AND EFFLUENT, JULY 2014- JUNE 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/ Effluent	Total Chromium EPA 200.7 (mg/L)	Total Chromium SQL (mg/L)	Hexavalent Chromium EPA 218.6 (mg/L)	Hexavalent Chromium SQL (mg/L)
12/1/2014	INFLUENT	0.061	0.0025	0.042	0.00025
12/1/2014	EFFLUENT	0.012	0.0025	<0.00025	0.00025
12/8/2014	INFLUENT	0.19	0.0025	0.057	0.00050
12/8/2014	EFFLUENT	0.011	0.0025	<0.00025 UH^	0.00025
12/15/2014	INFLUENT	0.085	0.0025	0.073	0.00025
12/15/2014	EFFLUENT	0.015	0.0025	<0.00025	0.00025
12/22/2014	INFLUENT	0.061	0.0025	0.059	0.00050
12/22/2014	EFFLUENT	0.013	0.0025	<0.00025	0.00025
12/29/2014	INFLUENT	0.19	0.0025	0.067	0.00025
12/29/2014	EFFLUENT	0.023	0.0025	<0.00025	0.00025
1/5/2015	INFLUENT	0.063	0.0025	0.064	0.00025
1/5/2015	EFFLUENT	0.021	0.0025	<0.00025	0.00025
1/12/2015	INFLUENT	0.096	0.0025	0.038	0.00025
1/12/2015	INFLUENT	0.10	0.0025	0.038	0.00025
1/12/2015	EFFLUENT	0.019	0.0025	<0.00025	0.00025
1/12/2015	EFFLUENT	0.020	0.0025	<0.00025	0.00025
1/19/2015	INFLUENT	0.067	0.0025	0.051	0.00025
1/19/2015	EFFLUENT	0.018	0.0025	<0.00025	0.00025
1/26/2015	INFLUENT	0.056	0.0025	0.052	0.0025
1/26/2015	EFFLUENT	0.019	0.0025	<0.00025	0.00025
2/2/2015	INFLUENT	0.057	0.0025	0.031	0.00025
2/2/2015	EFFLUENT	0.010	0.0025	<0.00025	0.00025
2/9/2015	INFLUENT	0.052	0.0025	0.045	0.00025
2/9/2015	EFFLUENT	0.024	0.0025	<0.00025	0.00025
2/17/2015	INFLUENT	0.058	0.0025	0.043	0.00025
2/17/2015	EFFLUENT	0.0064	0.0025	<0.00025	0.00025
2/23/2015	INFLUENT	0.062	0.0025	0.046	0.00025
2/23/2015	EFFLUENT	0.029	0.0025	<0.00025	0.00025
3/2/2015	INFLUENT	0.087	0.0025	0.010	0.00025
3/2/2015	EFFLUENT	0.043	0.0025	<0.00025	0.00025
3/9/2015	INFLUENT	0.050	0.0025	0.027	0.00025
3/9/2015	EFFLUENT	0.011	0.0025	<0.00025	0.00025
3/16/2015	INFLUENT	0.051	0.0025	0.036	0.00025
3/16/2015	EFFLUENT	0.0071	0.0025	<0.00025	0.00025
3/23/2015	INFLUENT	0.054	0.0025	0.0045	0.00025
3/23/2015	EFFLUENT	0.013	0.0025	<0.00025	0.00025
3/30/2015	INFLUENT	0.037	0.0025	0.024	0.00025
3/30/2015	EFFLUENT	0.0074	0.0025	<0.00025	0.00025
4/6/2015	INFLUENT	0.034	0.0025	0.015	0.00025
4/6/2015	EFFLUENT	0.0057	0.0025	<0.00025 UH	0.00025
4/13/2015	INFLUENT	0.031	0.0025	0.028	0.00025
4/13/2015	INFLUENT	0.032	0.0025	0.028	0.00025
4/13/2015	EFFLUENT	0.0072	0.0025	<0.00025	0.00025
4/13/2015	EFFLUENT	0.0080	0.0025	<0.00025	0.00025
4/20/2015	INFLUENT	0.034	0.0025	0.030	0.00025
4/20/2015	EFFLUENT	0.0046 J	0.0025	<0.00025	0.00025

TABLE 6: WEEKLY CHROMIUM IN FBR INFLUENT AND EFFLUENT, JULY 2014- JUNE 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/ Effluent	Total Chromium EPA 200.7 (mg/L)	Total Chromium SQL (mg/L)	Hexavalent Chromium EPA 218.6 (mg/L)	Hexavalent Chromium SQL (mg/L)
4/27/2015	INFLUENT	0.037	0.0025	0.028 H	0.00025
4/27/2015	EFFLUENT	0.0040 J	0.0025	<0.00025 UH	0.00025
5/4/2015	INFLUENT	0.038	0.0025	0.022	0.00025
5/4/2015	EFFLUENT	0.0046 J	0.0025	<0.00025	0.00025
5/12/2015	INFLUENT	0.031	0.0025	0.025	0.00025
5/12/2015	EFFLUENT	0.0046 J	0.0025	<0.00025	0.00025
5/18/2015	INFLUENT	0.043	0.0025	0.033	0.00025
5/18/2015	EFFLUENT	0.0060	0.0025	0.00034 J	0.00025
5/26/2015	INFLUENT	0.046	0.0025	0.036	0.00025
5/26/2015	EFFLUENT	0.0046 J	0.0025	<0.00025	0.00025
6/1/2015	INFLUENT	0.039	0.013	0.028	0.00025
6/1/2015	EFFLUENT	<0.013	0.013	<0.00025	0.00025
6/8/2015	INFLUENT	0.034	0.0025	0.036	0.00025
6/8/2015	EFFLUENT	0.013	0.0025	<0.00025	0.00025
6/15/2015	INFLUENT	0.043	0.0025	0.029	0.00025
6/15/2015	EFFLUENT	0.0088	0.0025	<0.00025	0.00025
6/22/2015	INFLUENT	0.028	0.0025	0.0091	0.00025
6/22/2015	EFFLUENT	0.0068	0.0025	<0.00025	0.00025
6/29/2015	INFLUENT	0.021	0.0025	0.015	0.00025
6/29/2015	EFFLUENT	0.0061	0.0025	<0.00025	0.00025

Notes:
-- = No Sample
B = Compound was found in the blank and sample.
FBR = Fluidized Bed Reactor
H = sample analyzed beyond hold time
J = Estimated Concentration
mg/L = milligrams per liter
SQL = Sample Quantitation Limit

TABLE 7: PERCHLORATE REMOVED FROM THE ENVIRONMENT
Nevada Environmental Response Trust Site
Henderson, Nevada

	Perchlorate Removal Rate						Extraction Rate				Average Perchlorate Concentration			
Month	Interceptor Well Field (lbs/day)	Athens Road Well Field (lbs/day)	Seep Wells and Seep (lbs/day)	Total (lbs/day)	Total Pounds Removed (per month)	Total Tons Removed (per month)	Interceptor Well Field (gpm)	Athens Road Well Field (gpm)	Seep Well Field (gpm)	Total (gpm)	Interceptor Well Field (mg/L)	Athens Road Well Field (mg/L)	Seep Well Field (mg/L)	Total (mg/L)
Oct 2002	1,402	331	495	2,228	69,068	34.5	--	--	--	--	--	--	--	--
Nov 2002	1,146	1,001	422	2,569	77,070	38.5	--	--	--	--	--	--	--	--
Dec 2002	1,292	1,164	208	2,664	82,584	41.3	--	--	--	--	--	--	--	--
Jan 2003	1,467	1,077	408	2,952	91,500	45.7	--	--	--	--	--	--	--	--
Feb 2003	1,060	785	482	2,327	65,155	32.6	--	--	--	--	--	--	--	--
Mar 2003	1,067	806	576	2,449	75,923	38.0	--	--	--	--	--	--	--	--
Apr 2003	1,033	708	664	2,405	72,146	36.1	--	--	--	--	--	--	--	--
May 2003	1,148	728	640	2,517	78,016	39.0	--	--	--	--	--	--	--	--
Jun 2003	1,098	909	628	2,634	79,035	39.5	--	--	--	--	--	--	--	--
Jul 2003	1,034	764	550	2,348	72,795	36.4	--	--	--	--	--	--	--	--
Aug 2003	999	742	431	2,172	67,400	33.7	--	--	--	--	--	--	--	--
Sep 2003	937	769	415	2,121	63,644	31.8	--	--	--	--	--	--	--	--
Oct 2003	1,003	767	370	2,140	66,344	33.2	--	--	--	--	--	--	--	--
Nov 2003	949	714	337	2,000	59,991	30.0	--	--	--	--	--	--	--	--
Dec 2003	932	734	318	1,984	61,518	30.8	--	--	--	--	--	--	--	--
Jan 2004	938	690	306	1,934	59,950	30.0	--	--	--	--	--	--	--	--
Feb 2004	881	652	322	1,856	53,816	26.9	--	--	--	--	--	--	--	--
Mar 2004	917	742	221	1,879	58,256	29.1	--	--	--	--	--	--	--	--
Apr 2004	854	735	151	1,740	52,197	26.1	--	--	--	--	--	--	--	--
May 2004	890	741	122	1,753	54,340	27.2	--	--	--	--	--	--	--	--
Jun 2004	978	753	157	1,888	56,641	28.3	--	--	--	--	--	--	--	--
Jul 2004	985	760	195	1,941	60,163	30.1	59.5	245.4	704.3	1009.3	1,380	258	23.1	160
Aug 2004	941	803	201	1,945	60,308	30.2	57.3	241.6	684.8	983.8	1,370	277	24.4	165
Sep 2004	970	835	169	1,973	59,201	29.6	55.8	243.2	649.4	948.4	1,450	286	21.7	174
Oct 2004	1,038	799	179	2,016	62,498	31.2	58.7	239.3	690.4	988.3	1,475	279	21.6	170
Nov 2004	1,016	814	168	1,998	59,928	30.0	62.5	243.2	698.1	1003.9	1,355	279	20.0	166
Dec 2004	929	811	122	1,862	57,725	28.9	65.1	257.6	681.0	1003.8	1,190	262	15.0	155
Jan 2005	993	776	142	1,910	59,215	29.6	67.5	254.0	665.6	987.0	1,227	255	17.8	161
Feb 2005	976	790	144	1,910	53,467	26.7	65.9	254.1	713.6	1033.7	1,234	259	16.9	154
Mar 2005	964	781	158	1,902	58,975	29.5	63.5	251.2	725.2	1039.9	1,265	259	18.1	153
Apr 2005	971	787	145	1,904	57,107	28.6	65.3	244.2	711.9	1021.4	1,240	269	17.0	155
May 2005	966	838	152	1,956	60,646	30.3	64.0	234.7	701.8	1000.5	1,258	298	18.1	163
Jun 2005	970	793	151	1,913	57,400	28.7	64.5	237.5	703.4	1005.5	1,253	278	17.9	159
Jul 2005	1,060	769	154	1,983	61,485	30.7	65.5	234.7	686.6	986.9	1,350	273	18.7	168
Aug 2005	1,092	800	135	2,028	62,858	31.4	66.6	239.2	680.6	986.4	1,369	279	16.6	171
Sep 2005	1,122	806	85	2,013	60,384	30.2	65.4	254.9	634.3	954.6	1,431	264	11.1	176
Oct 2005	1,060	797	99	1,957	60,653	30.3	64.4	251.6	621.5	937.5	1,374	264	13.3	174
Nov 2005	1,072	773	111	1,956	58,672	29.3	66.1	244.9	619.6	930.6	1,353	263	14.9	175
Dec 2005	1,123	726	121	1,971	61,088	30.5	63.8	236.5	621.1	921.4	1,469	256	16.3	178
Jan 2006	984	756	141	1,881	58,325	29.2	62.9	237.8	657.0	957.7	1,303	265	18.0	164
Feb 2006	975	734	120	1,828	51,197	25.6	63.8	239.1	664.1	967.0	1,273	256	15.1	158
Mar 2006	967	736	109	1,813	56,198	28.1	63.5	235.1	661.6	960.2	1,270	261	13.8	157
Apr 2006	1,011	749	127	1,887	56,598	28.3	63.7	224.1	660.6	948.5	1,325	279	16.0	166
May 2006	945	713	131	1,789	55,466	27.7	65.3	239.2	669.5	974.1	1,207	248	16.4	153
Jun 2006	874	753	135	1,762	52,854	26.4	61.9	244.1	669.8	975.9	1,176	257	16.8	151
Jul 2006	920	647	123	1,690	52,377	26.2	65.4	239.5	670.6	975.5	1,173	225	15.3	144
Aug 2006	925	656	139	1,720	53,325	26.7	63.6	240.9	664.4	969.0	1,214	227	17.5	148

TABLE 7: PERCHLORATE REMOVED FROM THE ENVIRONMENT
Nevada Environmental Response Trust Site
Henderson, Nevada

	Perchlorate Removal Rate						Extraction Rate				Average Perchlorate Concentration			
Month	Interceptor Well Field (lbs/day)	Athens Road Well Field (lbs/day)	Seep Wells and Seep (lbs/day)	Total (lbs/day)	Total Pounds Removed (per month)	Total Tons Removed (per month)	Interceptor Well Field (gpm)	Athens Road Well Field (gpm)	Seep Well Field (gpm)	Total (gpm)	Interceptor Well Field (mg/L)	Athens Road Well Field (mg/L)	Seep Well Field (mg/L)	Total (mg/L)
Sep 2006	1,064	768	157	1,989	59,674	29.8	66.2	251.5	656.4	974.0	1,341	255	20.0	170
Oct 2006	1,018	778	134	1,930	59,824	29.9	66.4	254.7	649.0	970.0	1,279	255	17.3	166
Nov 2006	867	724	102	1,694	50,809	25.4	63.9	258.0	524.0	845.8	1,133	234	16.3	167
Dec 2006	870	745	121	1,736	53,818	26.9	64.6	253.4	629.2	947.1	1,124	245	16.0	153
Jan 2007	948	786	98	1,831	56,775	28.4	66.1	256.2	638.2	960.4	1,197	256	12.8	159
Feb 2007	871	736	91	1,697	47,520	23.8	68.5	265.6	657.5	991.6	1,060	231	11.5	143
Mar 2007	915	689	88	1,692	52,454	26.2	68.4	259.0	601.3	928.6	1,116	222	12.2	152
Apr 2007	896	692	90	1,678	50,351	25.2	68.1	257.2	631.5	956.8	1,098	225	11.9	146
May 2007	890	679	100	1,669	51,734	25.9	66.2	259.1	660.5	985.8	1,120	219	12.6	141
Jun 2007	832	642	91	1,565	46,959	23.5	64.3	258.5	673.7	996.5	1,079	207	11.3	131
Jul 2007	912	659	67	1,638	50,785	25.4	63.7	257.8	656.7	978.3	1,193	213	8.6	140
Aug 2007	840	632	55	1,527	47,329	23.7	61.2	258.5	611.0	930.7	1,145	204	7.5	137
Sep 2007	842	631	53	1,526	45,794	22.9	59.2	251.1	605.2	915.5	1,187	210	7.4	139
Oct 2007	841	686	53	1,580	48,973	24.5	59.4	264.5	617.0	940.9	1,181	216	7.2	140
Nov 2007	762	675	55	1,493	44,782	22.4	57.3	264.1	622.9	944.3	1,110	213	7.4	132
Dec 2007	742	655	60	1,456	45,134	22.6	55.4	264.1	627.6	947.1	1,117	207	7.9	128
Jan 2008	873	630	58	1,562	48,410	24.2	56.5	262.9	631.2	950.7	1,289	200	7.6	137
Feb 2008	818	634	61	1,513	43,878	21.9	59.1	262.2	608.9	930.3	1,154	202	8.3	136
Mar 2008	870	666	60	1,595	49,460	24.7	61.6	265.0	614.0	940.6	1,178	210	8.1	141
Apr 2008	830	656	54	1,540	46,196	23.1	61.9	268.1	623.1	953.1	1,118	204	7.3	135
May 2008	721	627	46	1,394	43,222	21.6	60.6	266.5	618.8	945.9	993	196	6.2	123
Jun 2008	732	637	44	1,413	42,393	21.2	61.0	271.5	630.3	962.8	1,001	196	5.8	122
Jul 2008	817	673	54	1,544	47,872	23.9	63.4	273.5	618.5	955.4	1,076	205	7.3	135
Aug 2008	945	678	59	1,682	52,153	26.1	65.7	276.5	585.1	927.3	1,201	205	8.4	151
Sep 2008	798	635	56	1,489	44,670	22.3	65.4	275.7	589.9	931.0	1,018	192	7.9	133
Oct 2008	801	626	51	1,477	45,791	22.9	65.5	275.3	597.2	938.0	1,020	190	7.1	131
Nov 2008	807	643	48	1,497	44,921	22.5	65.4	279.0	560.4	904.8	1,029	192	7.1	138
Dec 2008	809	678	58	1,544	47,871	23.9	65.4	285.8	562.7	914.0	1,031	198	8.6	141
Jan 2009	864	659	44	1,567	48,567	24.3	66.8	276.4	586.0	929.3	1,078	199	6.2	141
Feb 2009	825	648	33	1,506	42,170	21.1	66.7	267.5	584.2	918.4	1,031	202	4.8	137
Mar 2009	865	720	36	1,621	50,242	25.1	67.6	258.9	606.0	932.4	1,067	232	4.9	145
Apr 2009	833	685	34	1,552	46,562	23.3	67.5	260.0	595.9	923.3	1,029	220	4.7	140
May 2009	823	655	35	1,514	46,920	23.5	66.6	256.8	598.6	922.0	1,031	213	4.9	137
Jun 2009	866	618	35	1,519	45,557	22.8	69.3	258.2	579.9	907.4	1,042	199	5.1	140
Jul 2009	833	674	40	1,547	47,953	24.0	68.6	282.6	572.2	923.4	1,012	199	5.8	140
Aug 2009	859	652	43	1,554	48,168	24.1	69.3	226.7	561.8	857.7	1,034	240	6.4	151
Sep 2009	938	671	48	1,657	49,708	24.9	71.2	230.7	559.4	861.4	1,099	242	7.1	160
Oct 2009	847	622	44	1,513	46,914	23.5	74.9	238.1	562.2	875.2	944	218	6.6	144
Nov 2009	894	613	47	1,554	46,611	23.3	74.5	234.7	564.6	873.8	1,001	218	7.0	148
Dec 2009	891	635	49	1,575	48,839	24.4	73.3	248.1	582.4	903.8	1,015	213	7.1	145
Jan 2010	914	661	55	1,630	50,533	25.3	71.8	240.2	571.0	883.0	1,062	230	8.1	154
Feb 2010	853	675	53	1,581	44,270	22.1	75.3	246.6	573.5	895.3	945	228	7.8	147
Mar 2010	949	629	49	1,626	50,413	25.2	73.2	255.4	562.2	890.8	1,081	205	7.2	152
Apr 2010	926	637	50	1,614	48,408	24.2	73.2	244.1	540.8	858.1	1,055	218	7.7	157
May 2010	983	758	53	1,794	55,610	27.8	75.1	266.2	548.5	889.8	1,092	237	8.0	168
Jun 2010	942	733	53	1,728	51,846	25.9	73.8	267.3	527.4	868.5	1,064	229	8.4	166
Jul 2010	839	652	46	1,537	47,638	23.8	73.0	269.4	533.7	876.1	959	202	7.1	146

TABLE 7: PERCHLORATE REMOVED FROM THE ENVIRONMENT
Nevada Environmental Response Trust Site
Henderson, Nevada

	Perchlorate Removal Rate						Extraction Rate				Average Perchlorate Concentration			
Month	Interceptor Well Field (lbs/day)	Athens Road Well Field (lbs/day)	Seep Wells and Seep (lbs/day)	Total (lbs/day)	Total Pounds Removed (per month)	Total Tons Removed (per month)	Interceptor Well Field (gpm)	Athens Road Well Field (gpm)	Seep Well Field (gpm)	Total (gpm)	Interceptor Well Field (mg/L)	Athens Road Well Field (mg/L)	Seep Well Field (mg/L)	Total (mg/L)
Aug 2010	846	668	44	1,558	48,294	24.1	71.1	269.4	518.7	859.2	992	207	7.0	151
Sep 2010	833	707	46	1,585	47,564	23.8	73.8	264.6	510.3	848.7	941	223	7.5	156
Oct 2010	794	632	51	1,476	45,762	22.9	70.9	268.4	529.6	868.9	934	196	8.0	142
Nov 2010	761	635	50	1,447	43,401	21.7	69.8	268.9	521.6	860.2	910	197	8.1	140
Dec 2010	687	636	42	1,365	42,327	21.2	67.7	267.7	530.8	866.2	846	198	6.6	131
Jan 2011	735	598	24	1,357	42,073	21.0	69.3	266.9	529.7	865.9	885	187	3.8	131
Feb 2011	709	588	38	1,334	37,362	18.7	67.3	263.0	545.1	875.5	878	186	5.8	127
Mar 2011	733	634	43	1,410	43,695	21.8	65.0	283.3	526.1	874.5	941	187	6.8	134
Apr 2011	791	616	48	1,455	43,641	21.8	67.1	285.1	505.0	857.2	983	180	8.0	142
May 2011	732	632	57	1,421	44,053	22.0	65.4	285.8	500.7	851.9	934	184	9.5	139
Jun 2011	757	639	46	1,442	43,246	21.6	66.2	284.6	499.9	850.7	953	187	7.7	141
Jul 2011	756	646	41	1,443	44,726	22.4	67.8	285.5	535.8	889.1	931	189	6.4	135
Aug 2011	768	630	39	1,438	44,578	22.3	67.3	273.9	507.0	848.3	952	192	6.5	141
Sep 2011	751	619	41	1,410	42,312	21.2	65.8	270.6	461.3	797.7	951	191	7.4	147
Oct 2011	747	585	41	1,372	42,537	21.3	67.5	270.7	467.7	805.8	923	180	7.3	142
Nov 2011	696	570	41	1,307	39,212	19.6	67.9	268.2	494.3	830.3	855	177	6.9	131
Dec 2011	659	567	38	1,263	39,168	19.6	65.0	267.3	506.8	839.1	846	177	6.2	126
Jan 2012	694	611	41	1,346	41,741	20.9	64.4	268.7	438.6	771.7	899	190	7.8	146
Feb 2012	701	658	43	1,401	40,643	20.3	64.5	269.1	469.4	803.1	906	204	7.6	146
Mar 2012	720	625	46	1,391	43,134	21.6	64.2	270.9	566.0	901.1	936	193	6.7	129
Apr 2012	686	607	44	1,337	40,095	20.0	63.7	273.1	567.9	904.7	897	185	6.5	123
May 2012	687	665	47	1,399	43,375	21.7	61.8	278.2	571.7	911.7	926	199	6.9	128
Jun 2012	541	641	48	1,229	36,879	18.4	61.6	272.8	590.8	925.2	732	196	6.7	111
Jul 2012	661	621	49	1,331	41,256	20.6	61.8	271.5	590.4	923.8	892	191	6.9	120
Aug 2012	654	598	48	1,301	40,316	20.2	62.4	272.2	578.8	913.4	874	183	6.9	119
Sep 2012	1,042	626	61	1,728	51,844	25.9	73.7	280.7	602.4	956.9	1,178	186	8.4	151
Oct 2012	1,294	604	65	1,962	60,837	30.4	74.4	278.7	602.8	955.9	1,450	181	9.0	171
Nov 2012	1,145	606	50	1,801	54,024	27.0	68.6	290.9	597.2	956.6	1,392	174	7.0	157
Dec 2012	1,301	619	56	1,976	61,268	30.6	72.8	290.3	590.5	953.6	1,491	178	8.0	173
Jan 2013	1,292	642	58	1,992	61,742	30.9	70.6	288.1	589.6	948.3	1,527	186	8.2	175
Feb 2013	1,194	615	52	1,862	52,137	26.1	70.7	282.8	587.1	940.5	1,408	182	7.4	165
Mar 2013	1,070	610	51	1,732	53,679	26.8	68.1	280.8	578.8	927.7	1,311	181	7.4	156
Apr 2013	1,141	629	63	1,833	54,980	27.5	68.4	281.2	570.9	920.5	1,391	187	9.2	166
May 2013	1,086	564	62	1,713	53,095	26.5	65.4	270.2	568.8	904.4	1,384	174	9.1	158
Jun 2013	885	538	47	1,471	44,118	22.1	66.6	280.6	558.3	905.5	1,109	160	7.1	135
Jul 2013	947	523	53	1,523	47,223	23.6	66.2	274.8	570.2	911.2	1,193	159	7.8	139
Aug 2013	933	569	59	1,562	48,417	24.2	65.6	277.1	545.1	887.8	1,187	171	9.1	147
Sep 2013	956	576	44	1,576	47,281	23.6	66.7	274.0	508.9	849.6	1,194	175	7.3	155
Oct 2013	937	593	55	1,586	49,158	24.6	66.7	283.8	507.4	857.9	1,173	174	9.1	154
Nov 2013	795	514	54	1,363	40,898	20.4	66.2	274.2	476.6	817.0	1,001	156	9.4	139
Dec 2013	799	448	45	1,292	40,063	20.0	71.3	285.3	477.6	834.2	934	131	7.9	129
Jan 2014	944	479	57	1,480	45,874	22.9	71.7	283.0	503.2	857.8	1,095	141	9.4	144
Feb 2014	837	512	49	1,399	39,174	19.6	71.8	282.8	510.9	865.5	971	151	8.1	135
Mar 2014	916	497	48	1,461	45,289	22.6	73.1	272.9	492.5	838.4	1,043	152	8.2	144
Apr 2014	808	469	45	1,322	39,655	19.8	71.1	276.8	488.6	836.5	945	141	7.7	132
May 2014	735	448	47	1,230	38,142	19.1	73.3	284.6	496.0	853.9	834	131	8.0	121
Jun 2014	975	423	47	1,445	43,337	21.7	78.1	285.4	481.0	844.5	1,038	123	8.2	142

TABLE 7: PERCHLORATE REMOVED FROM THE ENVIRONMENT
Nevada Environmental Response Trust Site
Henderson, Nevada

	Perchlorate Removal Rate						Extraction Rate				Average Perchlorate Concentration			
Month	Interceptor Well Field (lbs/day)	Athens Road Well Field (lbs/day)	Seep Wells and Seep (lbs/day)	Total (lbs/day)	Total Pounds Removed (per month)	Total Tons Removed (per month)	Interceptor Well Field (gpm)	Athens Road Well Field (gpm)	Seep Well Field (gpm)	Total (gpm)	Interceptor Well Field (mg/L)	Athens Road Well Field (mg/L)	Seep Well Field (mg/L)	Total (mg/L)
Jul 2014	898	506	60	1,464	45,374	22.7	71.9	281.5	506.4	859.9	1,039	150	10	142
Aug 2014	840	510	59	1,409	43,666	21.8	69.0	288.1	519.1	876.1	1,014	147	9	134
Sep 2014	830	541	70	1,441	43,219	21.6	68.5	292.8	524.2	885.5	1,008	154	11	135
Oct 2014	804	539	70	1,412	43,767	21.9	68.3	289.2	517.0	874.5	979	155	11	134
Nov 2014	759	483	61	1,303	39,087	19.5	67.9	277.5	525.1	870.5	935	145	10	125
Dec 2014	737	508	62	1,307	40,512	20.3	71.5	283.7	521.1	876.3	858	149	10	124
Jan 2015	738	560	69	1,368	42,405	21.2	71	284	520	875	859	164	11	129
Feb 2015	814	501	79	1,394	39,029	19.5	70	284	596	950	965	147	11	122
Mar 2015	793	571	83	1,447	44,872	22.4	68	287	591	946	964	165	12	127
Apr 2015	761	603	76	1,440	43,208	21.6	66	287	559	912	957	174	11	131
May 2015	728	522	68	1,318	40,873	20.4	67	286	526	879	902	152	11	125
Jun 2015	752	579	75	1,406	42,176	21.1	66	287	533	886	921	162	11	128

Notes:

All values presented in Table 7 as of January 2015 were calculated by Tetra Tech.

Mass removal rates presented in this spreadsheet from months prior to January 2015 may be slightly different from previously reported mass removal rates for the following reasons:
1) Analytical data were obtained directly from the database for extraction wells and the GWTP east and west well feeds instead of the field spreadsheet.
2) Data interpolation and mass removal calculations were performed more systematically using a script developed in Matlab.
These changes have not substantially impacted total perchlorate mass removal rates. Previously, data presented in Table 7 were based on calculations performed in the Envirogen/Veolia field spreadsheet. ENVIRON has not been able to locate perchlorate concentration and/or pumping data prior to July 2004, but has included the perchlorate removal numbers included in prior reports.

-- = no data available
gpm = gallons per minute
lbs/day = pounds per day
mg/L = milligrams per liter

TABLE 8: WEEKLY PERCHLORATE IN FBR INFLUENT AND EFFLUENT, JULY 2014 - JUNE 2015

Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/Effluent Weekly Composite	Perchlorate by EPA 314 (mg/L)	Perchlorate SQL (mg/L)
7/5/2014	INFLUENT-COMP	130	5.0
7/5/2014	EFFLUENT-COMP	<0.0025	0.0025
7/12/2014	INFLUENT-COMP	120	5.0
7/12/2014	EFFLUENT-COMP	<0.0025	0.0025
7/19/2014	INFLUENT-COMP	120	5.0
7/19/2014	EFFLUENT-COMP	<0.0025	0.0025
7/26/2014	INFLUENT-COMP	120	5.0
7/26/2014	EFFLUENT-COMP	<0.0025	0.0025
8/2/2014	INFLUENT-COMP	120	5.0
8/2/2014	EFFLUENT-COMP	<0.0025	0.0025
8/9/2014	INFLUENT-COMP	120	5.0
8/9/2014	EFFLUENT-COMP	<0.0025	0.0025
8/16/2014	INFLUENT-COMP	100	5.0
8/16/2014	EFFLUENT-COMP	<0.0025	0.0025
8/23/2014	INFLUENT-COMP	120	5.0
8/23/2014	EFFLUENT-COMP	<0.0025	0.0025
8/30/2014	INFLUENT-COMP	120	5.0
8/30/2014	EFFLUENT-COMP	<0.0025	0.0025
9/6/2014	INFLUENT-COMP	130	5.0
9/6/2014	EFFLUENT-COMP	<0.0025	0.0025
9/13/2014	INFLUENT-COMP	110	5.0
9/13/2014	EFFLUENT-COMP	<0.0025	0.0025
9/20/2014	INFLUENT-COMP	120	5.0
9/20/2014	EFFLUENT-COMP	<0.0025	0.0025
9/27/2014	INFLUENT-COMP	120	5.0
9/27/2014	EFFLUENT-COMP	<0.0025	0.0025
10/4/2014	INFLUENT-COMP	110	5.0
10/4/2014	EFFLUENT-COMP	<0.0025	0.0025
10/11/2014	INFLUENT-COMP	120	5.0
10/11/2014	EFFLUENT-COMP	<0.0025	0.0025
10/18/2014	INFLUENT-COMP	110	5.0
10/18/2014	EFFLUENT-COMP	<0.0025	0.0025
10/25/2014	INFLUENT-COMP	110	5.0
10/25/2014	EFFLUENT-COMP	<0.0025	0.0025
11/1/2014	INFLUENT-COMP	100	5.0
11/1/2014	INFLUENT-COMP	100	5.0
11/1/2014	EFFLUENT-COMP	<0.0025	0.0025
11/1/2014	EFFLUENT-COMP	<0.0025	0.0025
11/8/2014	INFLUENT-COMP	110	5.0
11/8/2014	INFLUENT-COMP	110	5.0
11/8/2014	EFFLUENT-COMP	<0.0025	0.0025
11/8/2014	EFFLUENT-COMP	<0.0025	0.0025
11/15/2014	INFLUENT-COMP	100	5.0
11/15/2014	EFFLUENT-COMP	<0.0025	0.0025
11/22/2014	INFLUENT-COMP	110	5.0
11/22/2014	EFFLUENT-COMP	<0.0025	0.0025
11/29/2014	INFLUENT-COMP	120	5.0

TABLE 8: WEEKLY PERCHLORATE IN FBR INFLUENT AND EFFLUENT, JULY 2014 - JUNE 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/Effluent Weekly Composite	Perchlorate by EPA 314 (mg/L)	Perchlorate SQL (mg/L)
11/29/2014	EFFLUENT-COMP	<0.0025	0.0025
12/6/2014	INFLUENT-COMP	110	5.0
12/6/2014	EFFLUENT-COMP	<0.0025	0.0025
12/13/2014	INFLUENT-COMP	120	5.0
12/13/2014	EFFLUENT-COMP	<0.0025	0.0025
12/20/2014	INFLUENT-COMP	120	5.0
12/20/2014	EFFLUENT-COMP	<0.0025	0.0025
12/27/2014	INFLUENT-COMP	120	5.0
12/27/2014	EFFLUENT-COMP	<0.0025	0.0025
1/3/2015	INFLUENT-COMP	100	5.0
1/3/2015	EFFLUENT-COMP	<0.0025	0.0025
1/10/2015	INFLUENT-COMP	71	5.0
1/10/2015	EFFLUENT-COMP	<0.0025	0.0025
1/17/2015	INFLUENT-COMP	77	5.0
1/17/2015	EFFLUENT-COMP	<0.0025	0.0025
1/24/2015	INFLUENT-COMP	88	5.0
1/24/2015	EFFLUENT-COMP	<0.0025	0.0025
1/31/2015	INFLUENT-COMP	85	5.0
1/31/2015	EFFLUENT-COMP	<0.0025	0.0025
2/7/2015	INFLUENT-COMP	110	5.0
2/7/2015	EFFLUENT-COMP	<0.0025	0.0025
2/14/2015	INFLUENT-COMP	94	5.0
2/14/2015	EFFLUENT-COMP	<0.0025	0.0025
2/21/2015	INFLUENT-COMP	100	5.0
2/21/2015	EFFLUENT-COMP	<0.0025	0.0025
2/28/2015	INFLUENT-COMP	100	5.0
2/28/2015	EFFLUENT-COMP	<0.0025	0.0025
3/7/2015	INFLUENT-COMP	90	5.0
3/7/2015	EFFLUENT-COMP	<0.0025	0.0025
3/14/2015	INFLUENT-COMP	92	5.0
3/14/2015	EFFLUENT-COMP	<0.0025	0.0025
3/21/2015	INFLUENT-COMP	100	5.0
3/21/2015	EFFLUENT-COMP	<0.0025	0.0025
3/28/2015	INFLUENT-COMP	97	5.0
3/28/2015	EFFLUENT-COMP	<0.0025	0.0025
4/4/2015	INFLUENT-COMP	96	5.0
4/4/2015	EFFLUENT-COMP	<0.0025	0.0025
4/11/2015	INFLUENT-COMP	100	5.0
4/11/2015	EFFLUENT-COMP	<0.0025	0.0025
4/18/2015	INFLUENT-COMP	94	5.0
4/18/2015	EFFLUENT-COMP	<0.0025	0.0025
4/25/2015	INFLUENT-COMP	99	5.0
4/25/2015	EFFLUENT-COMP	<0.0025	0.0025
5/2/2015	INFLUENT-COMP	96	5.0
5/2/2015	EFFLUENT-COMP	<0.0025	0.0025
5/9/2015	INFLUENT-COMP	99	5.0
5/9/2015	EFFLUENT-COMP	<0.0025	0.0025

TABLE 8: WEEKLY PERCHLORATE IN FBR INFLUENT AND EFFLUENT, JULY 2014 - JUNE 2015

Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/Effluent Weekly Composite	Perchlorate by EPA 314 (mg/L)	Perchlorate SQL (mg/L)
5/16/2015	INFLUENT-COMP	110	5.0
5/16/2015	EFFLUENT-COMP	<0.0025	0.0025
5/23/2015	INFLUENT-COMP	100	5.0
5/23/2015	EFFLUENT-COMP	<0.0025	0.0025
5/30/2015	INFLUENT-COMP	120	5.0
5/30/2015	EFFLUENT-COMP	<0.0025	0.0025
6/6/2015	INFLUENT-COMP	100	5.0
6/6/2015	EFFLUENT-COMP	<0.0025	0.0025
6/13/2015	INFLUENT-COMP	110	5.0
6/13/2015	EFFLUENT-COMP	<0.0025	0.0025
6/20/2015	INFLUENT-COMP	100	5.0
6/20/2015	EFFLUENT-COMP	<0.0025	0.0025
6/27/2015	INFLUENT-COMP	110	5.0
6/27/2015	EFFLUENT-COMP	<0.0025	0.0025

Notes:

Reports (DMRs) associated with the Site's National Pollution Discharge Elimination System (NPDES) Permit
FBR = Fluidized Bed Reactor
H = Sample prepped or analyzed beyond specified holding time
mg/L = milligrams per liter
SQL = Sample Quantitation Limit

TABLE 9: PERCHLORATE PLUME MASS ESTIMATES

Nevada Environmental Response Trust Site
Henderson, Nevada

	On-site			Off-site to AWF			AWF to Wash			Entire Area
	Alluvium	UMCf	Total On-site	Alluvium	UMCf	Total Off-site to AWF	Alluvium	UMCf	Total AWF to Wash	
2002	18	3,680	3,698	680	1,604	2,285	95	0	95	6,078
2006	12	2,321	2,333	538	1,223	1,761	11	0	11	4,105
2012	9	1,724	1,733	384	817	1,201	14	0	14	2,947
2014	17 ± 4	1,447 ± 567	1,464 ± 567	185 ± 37	556 ± 219	741 ± 222	11 ± 3	0	11 ± 3	2,217 ± 609
2015	20 ± 5	1,797 ± 694	1,817 ± 694	307 ± 83	736 ± 284	1,043 ± 296	28 ± 8	0	28 ± 8	2,888 ± 754

Notes:

Mass values are presented in tons.

AWF = Athens Road Well Field

UMCf = Upper Muddy Creek Formation

Mass estimations for 2014 and 2015 are presented with a 95% margin of error, which was calculated from the standard deviation of the interpolated concentrations and aquifer thicknesses.

TABLE 10: CHROMIUM PLUME MASS ESTIMATES
Nevada Environmental Response Trust Site
Henderson, Nevada

	On-Site			Off-Site to AWF			AWF to Wash			Entire Area
	Alluvium	UMCf	Total On-site	Alluvium	UMCf	Total Off-site to AWF	Alluvium	UMCf	Total AWF to Wash	
2006	0	32	32	2	5	6	0	0	0	38
2012	0	20	20	1	3	4	0	0	0	24
2014	0.24 ± 0.05	21.34 ± 8.37	21.58 ± 8.37	0.65 ± 0.13	2.60 ± 1.02	3.25 ± 1.03	0.03 ± 0.01	0	0.03 ± 0.01	24.86 ± 8.43
2015	0.25 ± 0.07	16.50 ± 6.37	16.75 ± 6.37	0.88 ± 0.24	2.62 ± 1.01	3.51 ± 1.04	0.06 ± 0.02	0	0.06 ± 0.02	20.32 ± 6.45

Notes:

Mass values are presented in tons.

AWF = Athens Road Well Field

UMCf = Upper Muddy Creek Formation

Mass estimations for 2014 and 2015 are presented with a 95% margin of error, which was calculated from the standard deviation of the interpolated concentrations and aquifer thicknesses.

TABLE 11: AVERAGE PERCHLORATE MASS LOADING IN LAS VEGAS WASH

Nevada Environmental Response Trust Site

Henderson, Nevada

	Average Perchlorate Mass Loading (lbs/d)			Percentage Loading at Northshore Road from		
Reporting Year	**LV Wasteway**	**Pabco Road**	**Northshore Road**	**Upstream of Wasteway**	**Las Vegas Wasteway to Pabco Road**	**Pabco Road to Northshore Road**
2007/2008[1]	1.96	23.34	68.73	3%	31%	66%
2008/2009[2]	1.69	16.71	70.60	2%	21%	76%
2009/2010	1.60	30.21	62.05	3%	46%	51%
2010/2011	1.49	18.74	71.05	2%	24%	74%
2011/2012	1.26	9.69	76.35	2%	11%	87%
2012/2013	1.44	27.94	68.57	2%	39%	59%
2013/2014	1.77	30.00	67.26	3%	42%	55%
2014/2015	1.38	20.08	64.56	2%	29%	69%
Average	**1.57**	**22.09**	**68.65**	**2%**	**30%**	**68%**

Notes:

lbs/d = pounds per day

Reporting year is July through June

[1] 2007 third quarter mass loading estimate missing.

[2] 2009 first quarter mass loading estimate missing.

TABLE 12: GW-11 WATER ELEVATION, WATER VOLUME, AND FLOW

Nevada Environmental Response Trust Site

Henderson, Nevada

Date	Water Level Elevation (ft amsl)	Water Volume (Mgal)	Average GW-11 Influent Flow (gpm)	Average GW-11 Effluent Flow (gpm)	Estimated Evaporation Rate (gpm)*
7/4/2014	1740.84	35.78	--	--	--
7/11/2014	1741.45	38.26	--	--	--
7/18/2014	1741.74	39.46	--	--	--
7/24/2014	1741.98	40.45	--	--	--
7/31/2014	1742.21	41.44	--	--	--
Monthly Average	--	--	1015	785	122
8/5/2014	1742.53	42.77	--	--	--
8/7/2014	1742.53	42.77	--	--	--
8/15/2014	1742.50	42.66	--	--	--
8/21/2014	1742.37	42.11	--	--	--
8/28/2014	1742.21	41.44	--	--	--
Monthly Average	--	--	255	111	108
9/4/2014	1742.21	41.44	--	--	--
9/11/2014	1742.63	43.22	--	--	--
9/18/2014	1742.66	43.33	--	--	--
9/25/2014	1742.66	43.33	--	--	--
Monthly Average	--	--	89	3	90
10/2/2014	1742.61	43.10	--	--	--
10/9/2014	1742.53	42.77	--	--	--
10/17/2014	1742.53	42.77	--	--	--
10/23/2014	1742.56	42.88	--	--	--
Monthly Average	--	--	21	0	60
11/6/2014	1742.48	42.55	--	--	--
11/13/2014	1742.61	43.10	--	--	--
11/17/2014	1742.61	43.10	--	--	--
11/20/2014	1742.61	43.10	--	--	--
11/28/2014	1742.61	43.10	--	--	--
Monthly Average	--	--	32	0	37
12/11/2014	1742.98	44.67	--	--	--
12/19/2014	1743.08	45.12	--	--	--
12/30/2014	1743.06	45.00	--	--	--
Monthly Average	--	--	11	0	26
1/16/2015	1743.56	47.15	--	--	--
1/30/2015	1743.64	47.49	--	--	--
Monthly Average	--	--	716	643	28
2/11/2015	1743.82	48.29	--	--	--
2/26/2015	1744.08	49.43	--	--	--
Monthly Average	--	--	1038	829	40

TABLE 12: GW-11 WATER ELEVATION, WATER VOLUME, AND FLOW

Nevada Environmental Response Trust Site

Henderson, Nevada

Date	Water Level Elevation (ft amsl)	Water Volume (Mgal)	Average GW-11 Influent Flow (gpm)	Average GW-11 Effluent Flow (gpm)	Estimated Evaporation Rate (gpm)*
3/14/2015	1744.16	49.77	--	--	--
3/26/2015	1744.12	49.60	--	--	--
Monthly Average	--	--	1022	919	59
4/1/2015	1744.10	49.48	--	--	--
4/10/2015	1744.14	49.66	--	--	--
4/18/2015	1744.11	49.54	--	--	--
Monthly Average	--	--	941	852	86
5/15/2015	1743.90	48.63	--	--	--
5/28/2015	1743.77	48.06	--	--	--
Monthly Average	--	--	898	888	107
6/11/2015	1743.73	47.89	--	--	--
6/25/2015	1743.85	48.40	--	--	--
Monthly Average	--	--	808	853	133

Notes:

Influent and effluent flow rates were calculated in the GWETS field spreadsheet maintained by Tetra Tech.

A new GW-11 influent flow meter was installed on April 27 to track GW-11 total influent flow. Prior to this date, influent flows were estimated using the sum of flows from Lift Station 2 and the GWTP.

*Evaporation has a significant impact on pond volume. Using historic pan evaporation data, ENVIRON calculated approximate evaporation rates for GW-11 in gpm (Shevenell, 1996).

GW-11 did not operate as an equalization basin between August 6, 2014 and January 7, 2015.

gpm = gallons per minute ft amsl = feet above mean sea level

Mgal = millions of gallons

Source: Shevenell, Lisa. 1996. Nevada Bureau of Mines and Geology, Report 48: Statewide Potential Evapotranspiration Maps for Nevada.

TABLE 13: GW-11 ANALYTICAL MONITORING
Nevada Environmental Response Trust Site
Henderson, Nevada

Date	Sample Type	Perchlorate (mg/L)	Chlorate (mg/L)	Nitrate as Nitrogen (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Phosphorus (mg/L)	Calcium (mg/L)	Iron (mg/L)	Total Chromium (µg/L)	Hexavalent Chromium (µg/L)	TDS (mg/L)	TSS (mg/L)	pH (SU)
3/27/2014	Composite	40	68	2.4	2800	2400	NA	0.15	510	0.19	28	1.1	8600	26	NA
5/5/2014	Effluent	84	170	8.8	NA	NA	NA	NA	NA	NA	59	31	NA	NA	NA
6/2/2014	Effluent	99	280	7.3	NA	NA	NA	NA	NA	NA	23	5.5	NA	NA	NA
7/1/2014	Effluent	130	250	8	NA	NA	NA	NA	NA	NA	28	11	NA	NA	NA
7/25/2014	Composite	110	230	7.1	1800	1600	0.59	0.53	350	0.058	41	NA	6000	25	8.37
8/4/2014	Effluent	120	190	7.6	NA	NA	NA	NA	NA	NA	49	5.1	NA	NA	NA
9/2/2014	Effluent	100	140	4.4	NA	NA	NA	NA	NA	NA	12	0.44	NA	NA	NA
9/4/2014	Composite	100	140	4.4	1800	1700	2.6	0.11	360	0.37	16	ND	6000	43	8.27
10/13/2014	Effluent	85	100	4.9	NA	NA	NA	NA	NA	NA	39	0.42	NA	NA	NA
11/3/2014	Effluent	63	90	3.2	NA	NA	NA	NA	NA	NA	5.4	1.2	NA	NA	NA
12/10/2014	Effluent	49	63	2.8	NA	NA	NA	NA	NA	NA	13	3.1	NA	NA	NA
1/5/2015	Effluent	44	190	1.1	NA	NA	NA	NA	NA	NA	32	4.5	NA	NA	NA
1/28/2015	Composite	81	150	5	1700	1400	0.38	0.026	310	0.26	73	50	6000	14	8.66
2/2/2015	Effluent	87	140	5.1	NA	NA	NA	NA	NA	NA	130	47	NA	NA	NA
2/27/2015	Composite	87	150	6.5	1600	1400	0.15	0.19	280	1.4	180	47	5700	25	8.47
3/2/2015	Effluent	84	130	7.9	NA	NA	NA	NA	NA	NA	240	9.7	NA	NA	NA
3/31/2015	Composite	81	170	5.9	1700	1500	0.35	0.37	310	0.67	81	24	5700	40	8.29
4/6/2015	Effluent	80	150	6	NA	NA	NA	NA	NA	NA	49	15	NA	NA	NA
4/30/2015	Composite	93	180	6.4	1400	1200	ND	ND	320	0.56	46	27	5300	3	8.36
5/4/2015	Effluent	91	170	5.9	NA	NA	NA	NA	NA	NA	43	27	NA	NA	NA
5/29/2015	Composite	110	180	6.6	1500	1300	0.11	ND	280	0.4	43	33	5500	5	8.56
6/1/2015	Effluent	100	180	7.8	NA	NA	NA	NA	NA	NA	450	29	NA	NA	NA
6/29/2015	Composite	100	210	5.7	1500	1300	0.27	0.098	320	0.71	45	14	6100	55	8.27

Notes:

GW-11 did not operate as an equalization basin between August 6, 2014 and January 7, 2015.

Samples listed as composite were collected from GW-11 as four-point composite samples. Samples listed as effluent were collected from the GW-11 effluent pipe.

Although requested by NDEP, ammonia was not analyzed in the initial GW-11 sample.

pH was not specified in NDEP's original GW-11 monitoring request, but was added for consistency with the groundwater monitoring program during the July 25, 2014 GW-11 sampling event.

GW-11 effluent was not analyzed for chloride, sulfate, ammonia, phosphorus, calcium, iron, TDS, TSS, and pH during May, June, August, October, November, and December 2014.

mg/L = milligrams per liter

µg/L = micrograms per liter

NA = not analyzed

TDS = total dissolved solids

TSS = total suspended solids

SU = standard unit

TABLE 14: GW-11 PERCHLORATE MASS ESTIMATE, JULY 2014 - JUNE 2015

Nevada Environmental Response Trust Site

Henderson, Nevada

GW-11 Perchlorate Mass Calculation Based on Concentration and Pond Volume				
GW-11 Water Sample		GW-11 Pond Volume		Estimated Perchlorate Mass in GW-11 (lbs)
Date	Perchlorate Concentration (mg/L)	Date	Measured Volume (Mgal)	
July 1, 2014	130	July 4, 2014	35.78	38,818
July 25, 2014	110	July 24, 2014	40.45	37,132
August 4, 2014	120	August 5, 2014	42.77	42,832
September 2, 2014	100	September 4, 2014	41.44	34,585
September 4, 2014	100	September 4, 2014	41.44	34,585
October 13, 2014	85	October 9, 2014	42.77	30,339
November 3, 2014	63	November 6, 2014	42.55	22,370
December 10, 2014	49	December 11, 2014	44.67	18,266
January 5, 2015	44	January 16, 2015	47.15	17,313
January 28, 2015	81	January 30, 2015	47.49	32,102
February 2, 2015	87	February 11, 2015	48.29	35,058
February 27, 2015	87	February 26, 2015	49.43	35,886
March 2, 2015	84	March 14, 2015	49.77	34,891
March 31, 2015	81	March 26, 2015	49.60	33,528
April 6, 2015	80	April 10, 2015	49.66	33,153
April 30, 2015	93	April 18, 2015	49.54	38,451
May 4, 2015	91	May 15, 2015	48.63	36,929
May 29, 2015	110	May 28, 2015	48.06	44,117
June 1, 2015	100	June 11, 2015	47.89	39,964
June 29, 2015	100	June 25, 2015	48.40	40,391

Notes:

GW-11 began functioning as an equalization basin on March 27, 2014. GW-11 did not operate as an equalization basin between August 6, 2014 and January 7, 2015.

-- = no value

lbs = pounds

Mgal = million gallons

mg/L = milligrams per liter

TABLE 15: GWETS PERFORMANCE METRICS SUMMARY

Nevada Environmental Response Trust Site

Henderson, Nevada

Performance Metric	Method of Evaluation	Location	Value
Mass Removal and Remaining Plume Mass (Section 6.4.1)			
Perchlorate Mass Remaining in Groundwater (tons)	Interpolation of concentrations (May 2015 data used for estimate)	On-site	1,817
		Off-site to AWF	1,043
		AWF to the Wash	28
		Total	2,888
Perchlorate Mass Removal Rate[1] (tons/year)	Calculated from extraction rates and concentrations in extraction wells (July 2014 through June 2015, calculation done by Tetra Tech as of January 2015)	IWF	144
		AWF	98
		SWF	13
		Total	254
Chromium Mass Remaining in Groundwater (tons)	Interpolation of concentrations (May 2015 data used for estimate)	On-site	16.75
		Off-site to AWF	3.51
		AWF to the Wash	0.06
		Total	20.32
Chromium Mass Removal Rate[2] (tons/year)	Calculated from extraction rates and concentrations in extraction wells (July 2014 through June 2015)	IWF[3]	1.13
		FBR[4]	0.11
		Total	1.24
Capture Zone Evaluation and Estimated Mass Flux (Section 6.4.2)			
Capture Efficiency at Well Fields (percent)	Calculated from groundwater modeling, measured concentrations, and extraction rates	IWF	99.9%
		AWF	98.1%
		SWF	95.3%
Well Field Capture Zones	Estimated capture zones from particle tracking compared to target capture zone. See Figures 31a, 31b, and 31c.	Study Area	Target area captured except for small area near SWF

TABLE 15: GWETS PERFORMANCE METRICS SUMMARY

Nevada Environmental Response Trust Site

Henderson, Nevada

Performance Metric	Method of Evaluation	Location	Value
Perchlorate Mass Loading to Las Vegas Wash (Section 6.4.3)			
Perchlorate Mass Loading in Las Vegas Wash (lbs/day)	Based on instantaneous sampling results and flow rates.	Northshore Rd	65
		Pabco Rd	20
		LV Wasteway	1
Contribution to Northshore Road Mass Loading by Reach (percent)	Apportionment of mass loading at Northshore Road to stream reaches.	Pabco Rd to Northshore Rd	69%
		Wasteway to Pabco Rd	29%
		Upstream of Wasteway	2%
Surface Water-Groundwater Interaction Near the SWF (Section 6.4.4)			
Las Vegas Wash Flow Captured at SWF	Comparison of surface water level at Pabco Road gauge to nearby groundwater levels.	SWF	Flow direction is from LVW to SWF near PC-94
COH Birding Pond Flow Captured at SWF	Low TDS plume used as tracer	SWF	Flow direction is from Birding Ponds to SWF
Environmental Footprint (Section 6.4.5)			
Energy Use (GWH/yr)	Summarized from utility bills (July 2014 through June 2015)	GWETS Plant	3.9
		Off-site Wells and Lift Stations	1.4
		Entire system	5.2
Energy Use (kwH per lb of perchlorate removed)	Summarized from utility bills and perchlorate mass removal (July 2013 through June 2014)	Entire system	10.3

Notes:

[1] Average mass removal rate at each well field between July 2014 and June 2015. Monthly removal rates are shown on Table 7.

[2] Average mass removal rate at the Groundwater Treatment Plant (GWTP) and Fluidized Bed Reactor (FBR) between July 2014 and June 2015. Monthly removal rates at the GTWP are shown on Table 5.

[3] The average mass removal rate is calculated using influent and effluent hexavalent chromium concentration data at the GWTP and average monthly flow to the GWTP. This calculation is performed by Tetra Tech as of January 2015.

[4] The average mass removal rate is calculated using influent and effluent total chromium concentration data at the FBRs and average monthly FBR flow data.

IWF = Interceptor Well Field

AWF = Athens Road Well Field

SWF = Seep Well Field

LVW = Las Vegas Wash

lbs/day = pounds per day

kwH = kilowatt hour

GWH/yr = gigawatt hours per year

FIGURES

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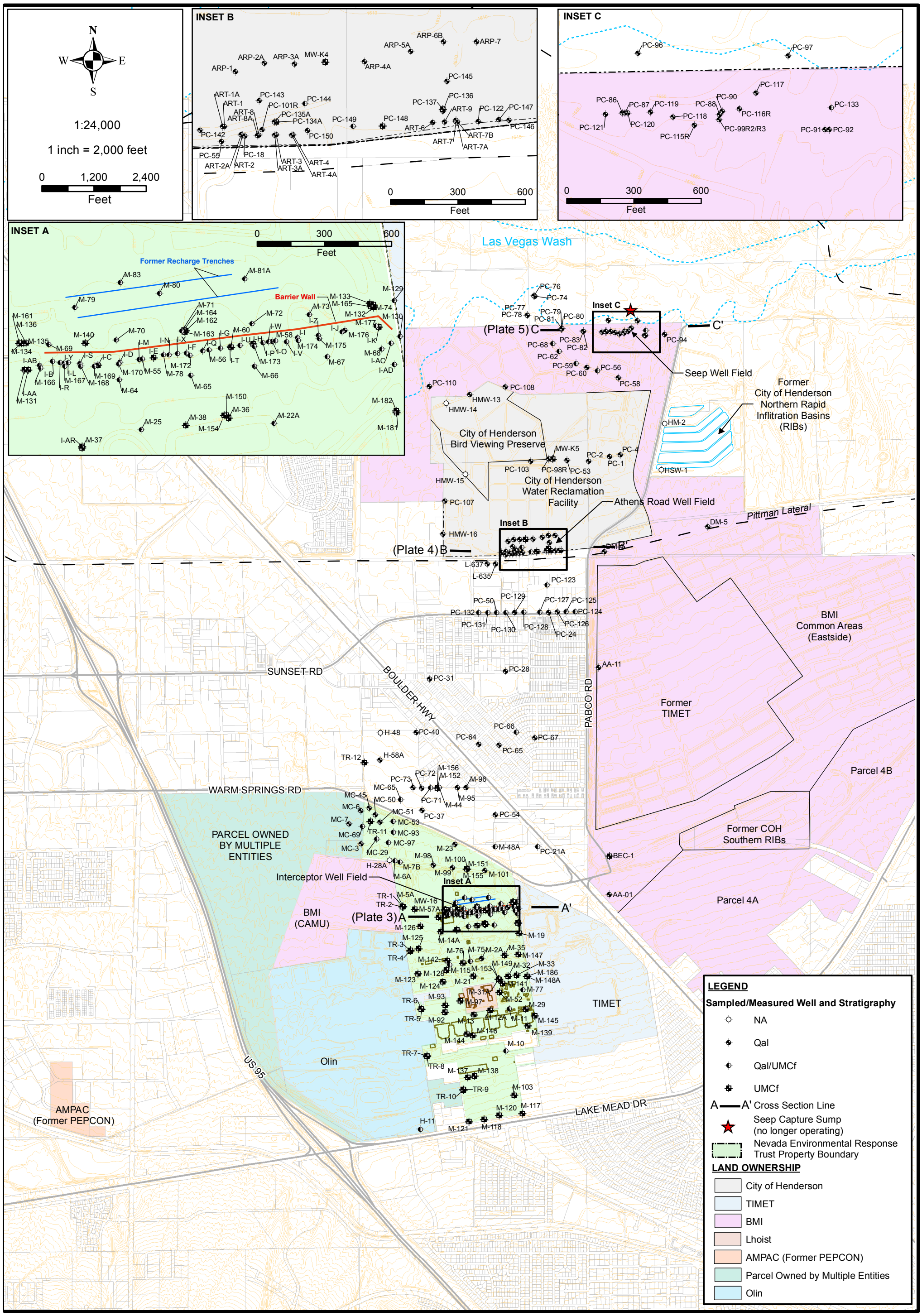

RAMBOLL ENVIRON

DRAFTED BY: RS

DATE: 10/30/2015

WELL LOCATION MAP - GROUNDWATER MONITORING PROGRAM WELLS

Annual Performance Report

Nevada Environmental Response Trust Site

Henderson, Nevada

FIGURE

1a

21-37300A

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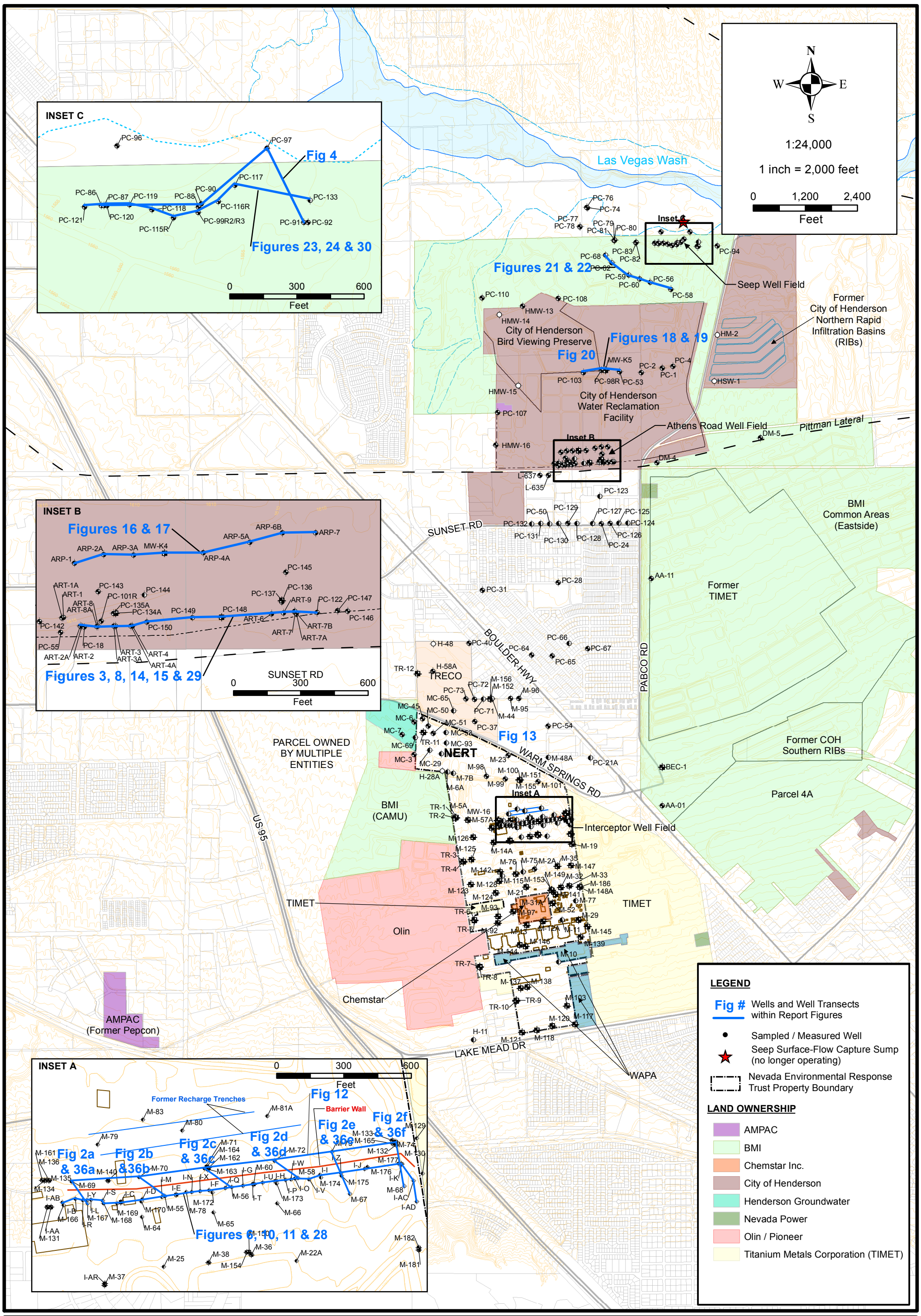

RAMBOLL ENVIRON

DRAFTED BY: RS | DATE: 10/30/2015

FIGURE LOCATION MAP
Annual Performance Report
Nevada Environmental Response Trust Site
Henderson, Nevada

FIGURE
1b

21-37300A

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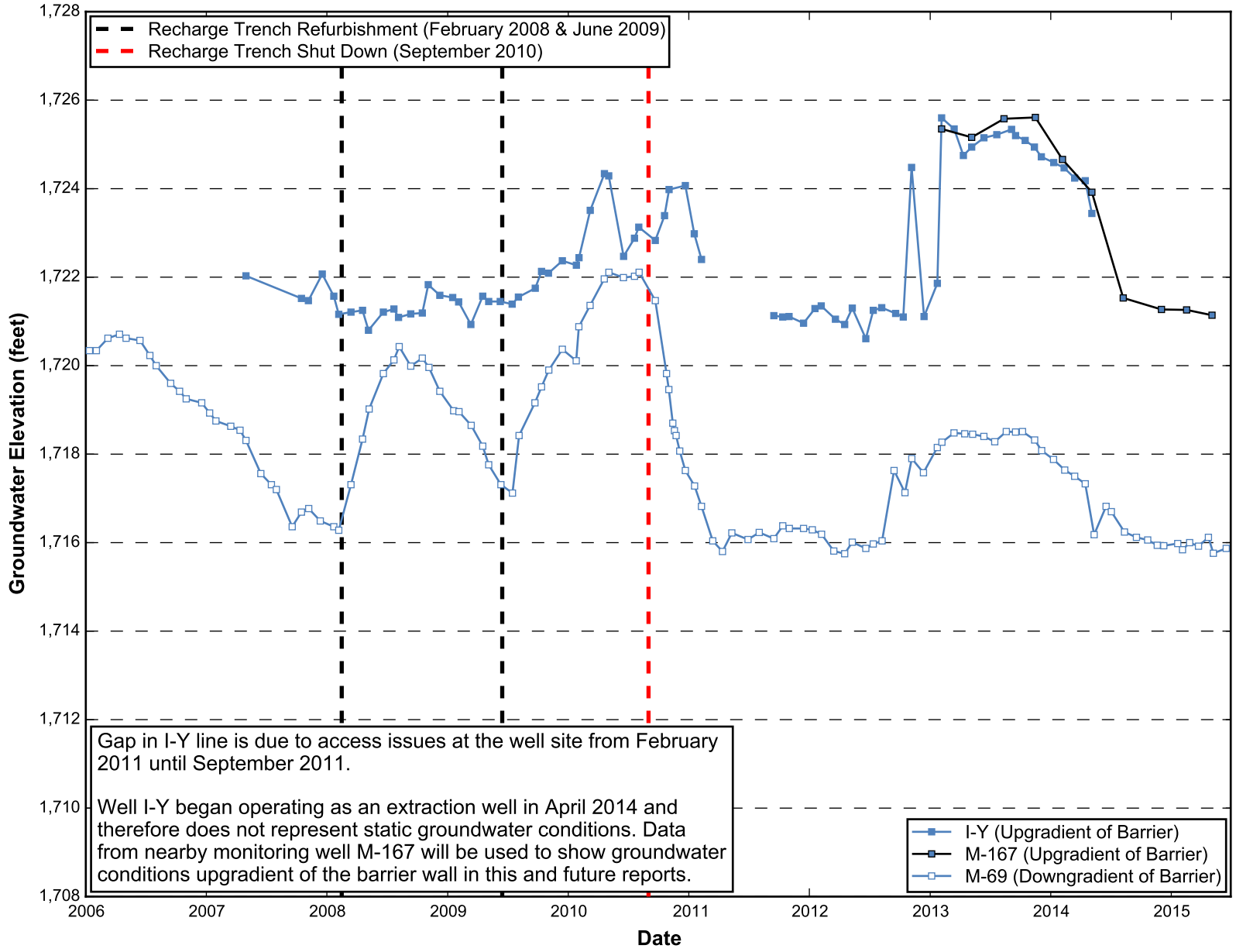

RAMBOLL ENVIRON

Hydrograph Pair Across the Barrier Wall - M-69 and I-Y
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
2a

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RAMBOLL ENVIRON

Hydrograph Pair Across the Barrier Wall - M-70 and M-55
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
2b

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RAMBOLL ENVIRON

Hydrograph Pair Across the Barrier Wall - M-71 and M-56
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
2c

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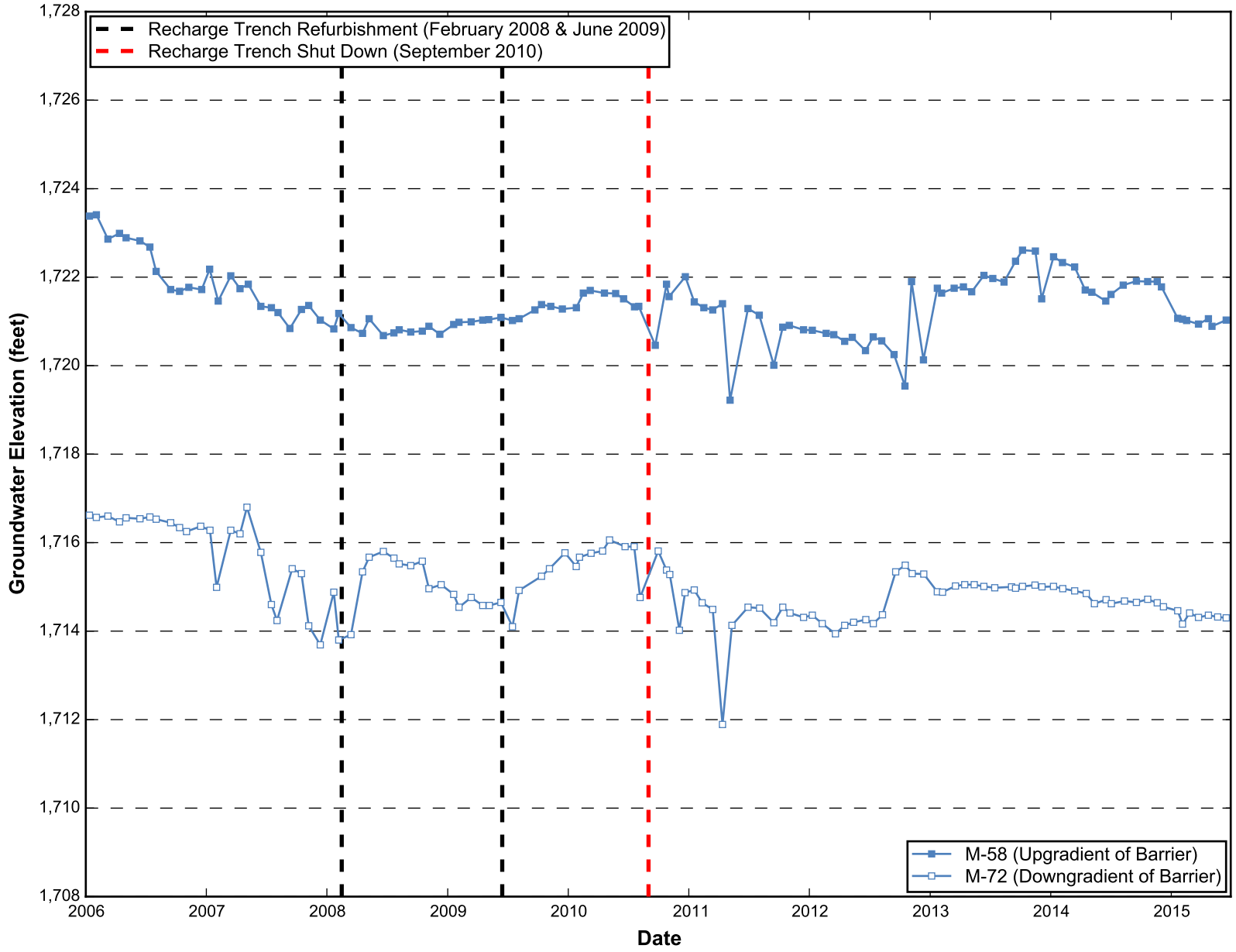

RAMBOLL ENVIRON

Hydrograph Pair Across the Barrier Wall - M-72 and M-58
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
2d

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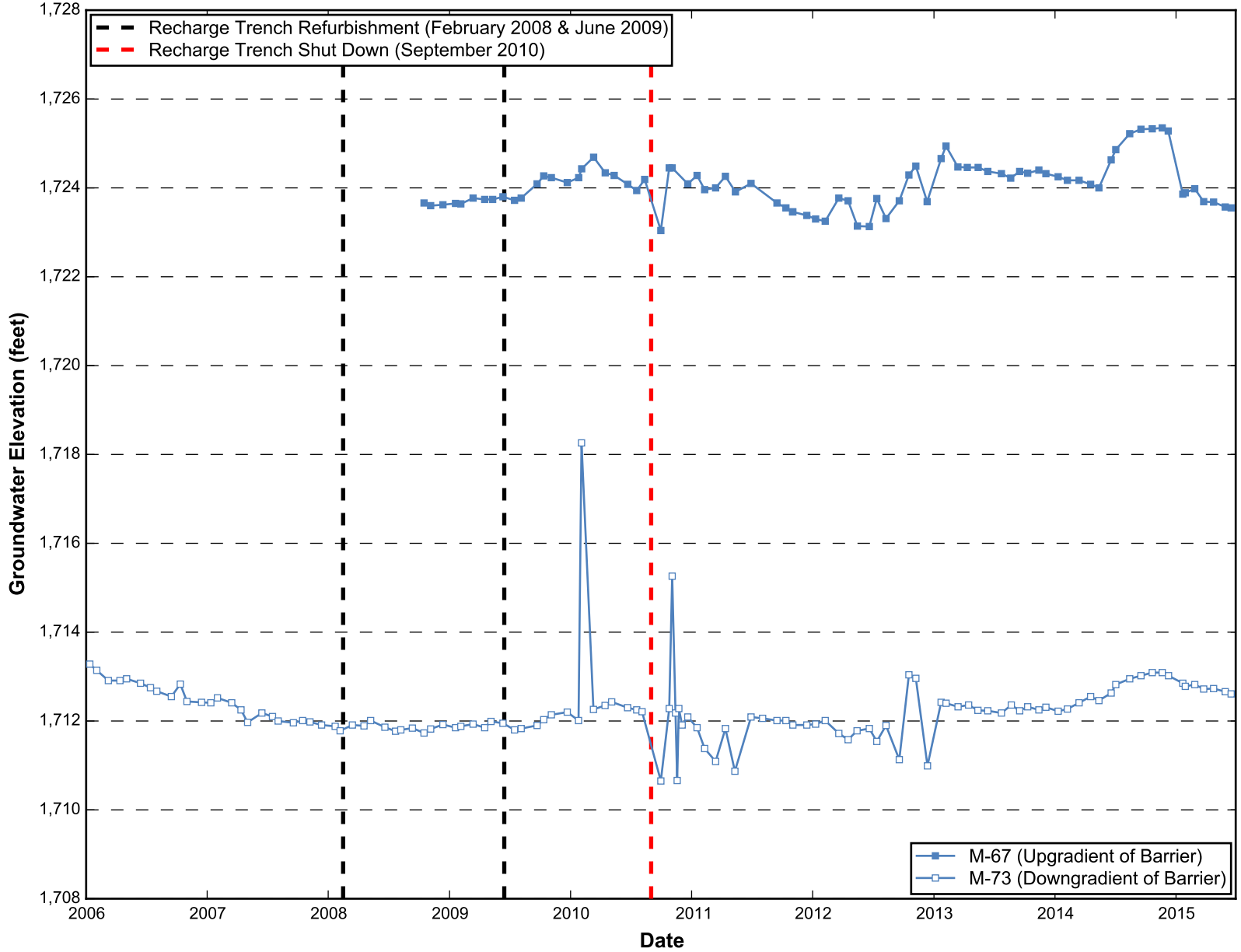

RAMBOLL ENVIRON

Hydrograph Pair Across the Barrier Wall - M-73 and M-67
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
2e

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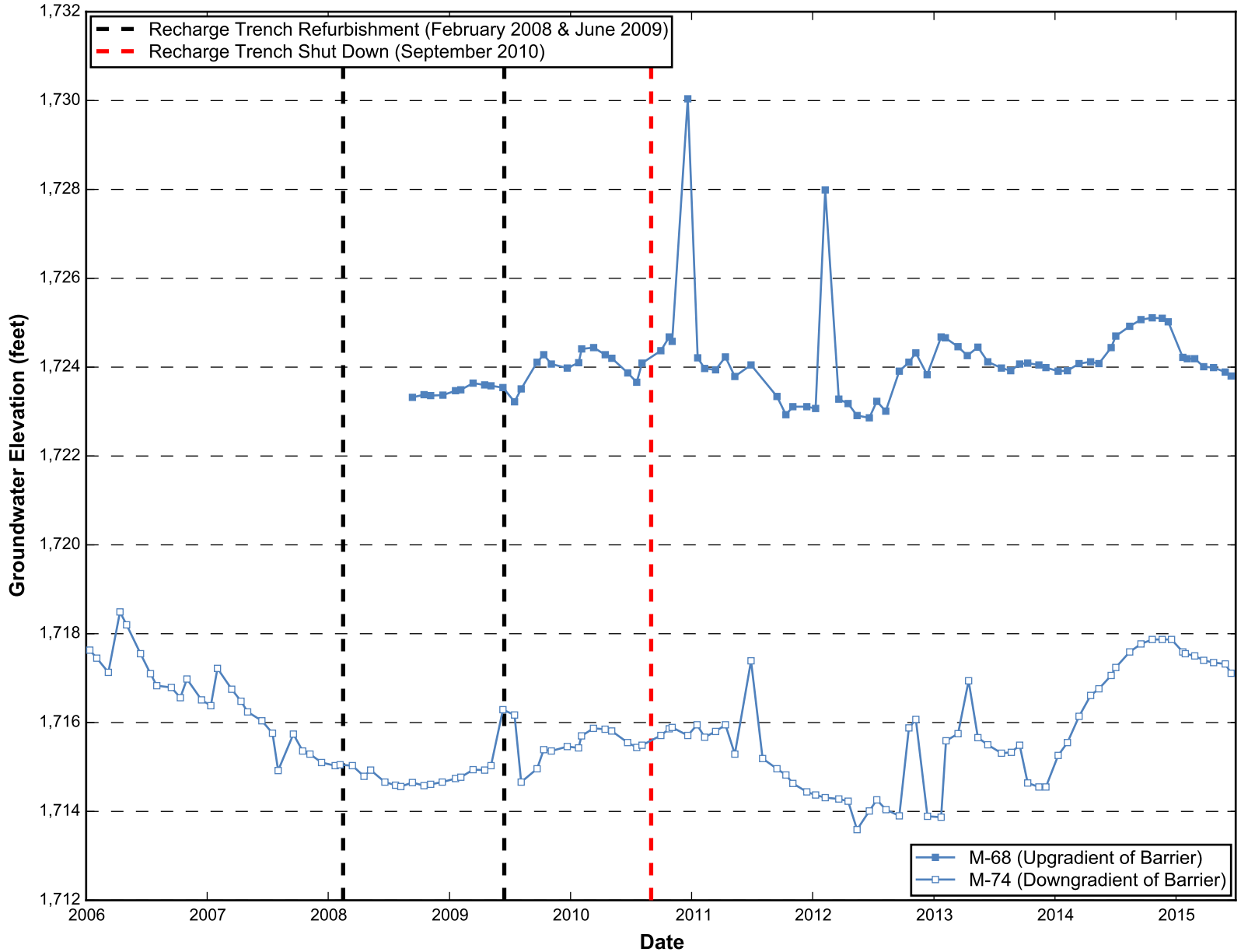

RAMBOLL ENVIRON

Hydrograph Pair Across the Barrier Wall - M-74 and M-68
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
2f

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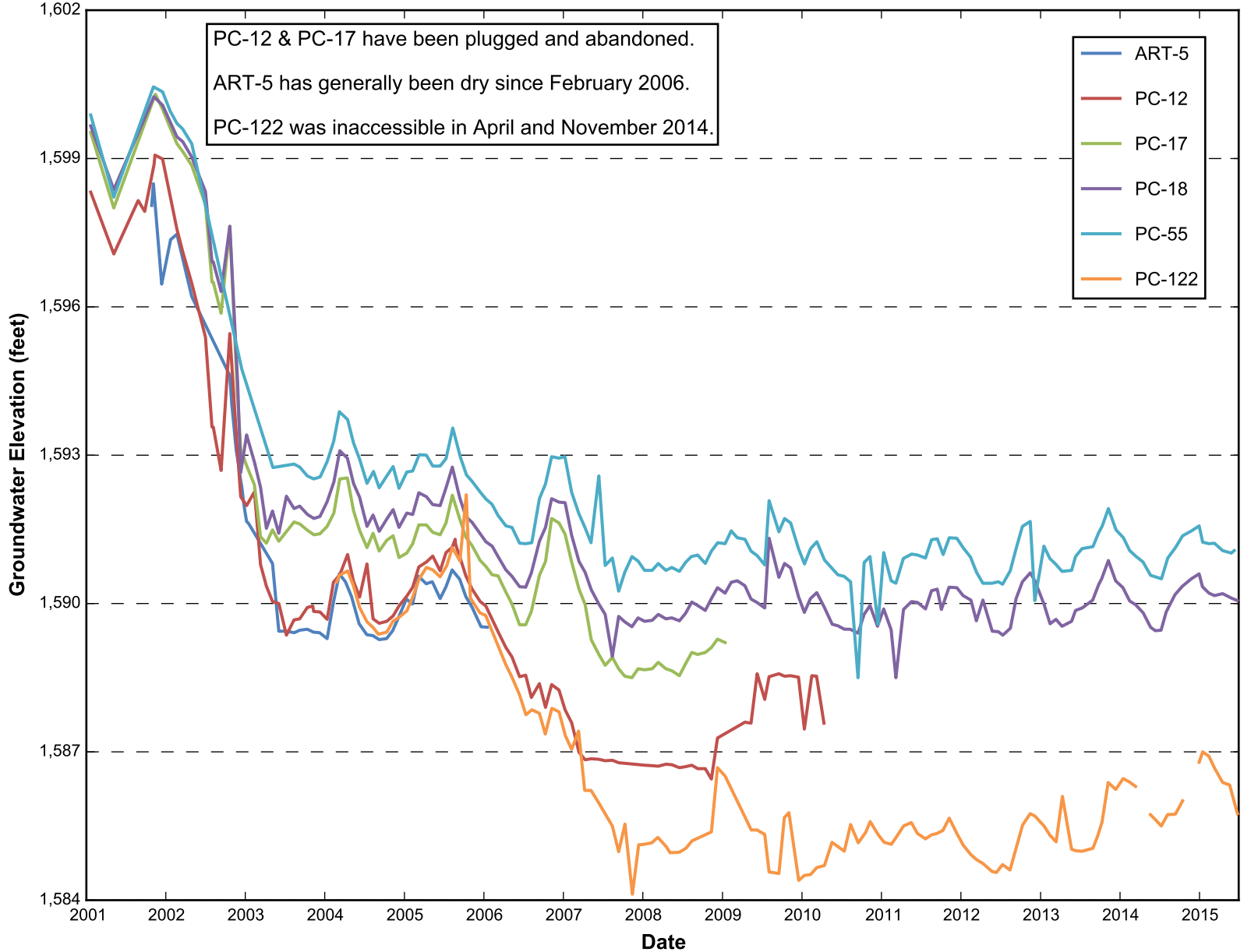

RAMBOLL ENVIRON

Athens Road Well Field Drawdown
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
3

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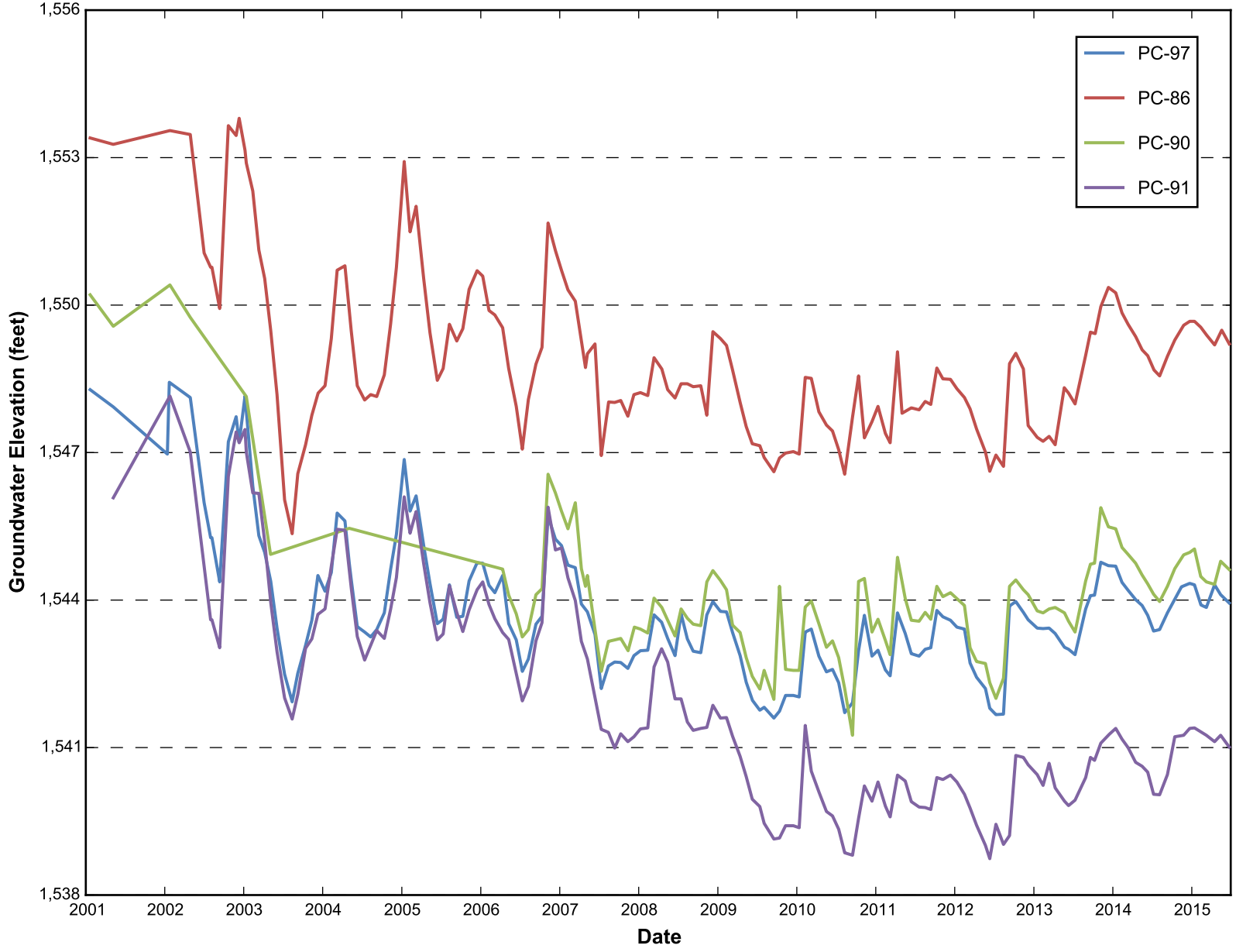

RAMBOLL ENVIRON

Seep Well Field Drawdown
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
4

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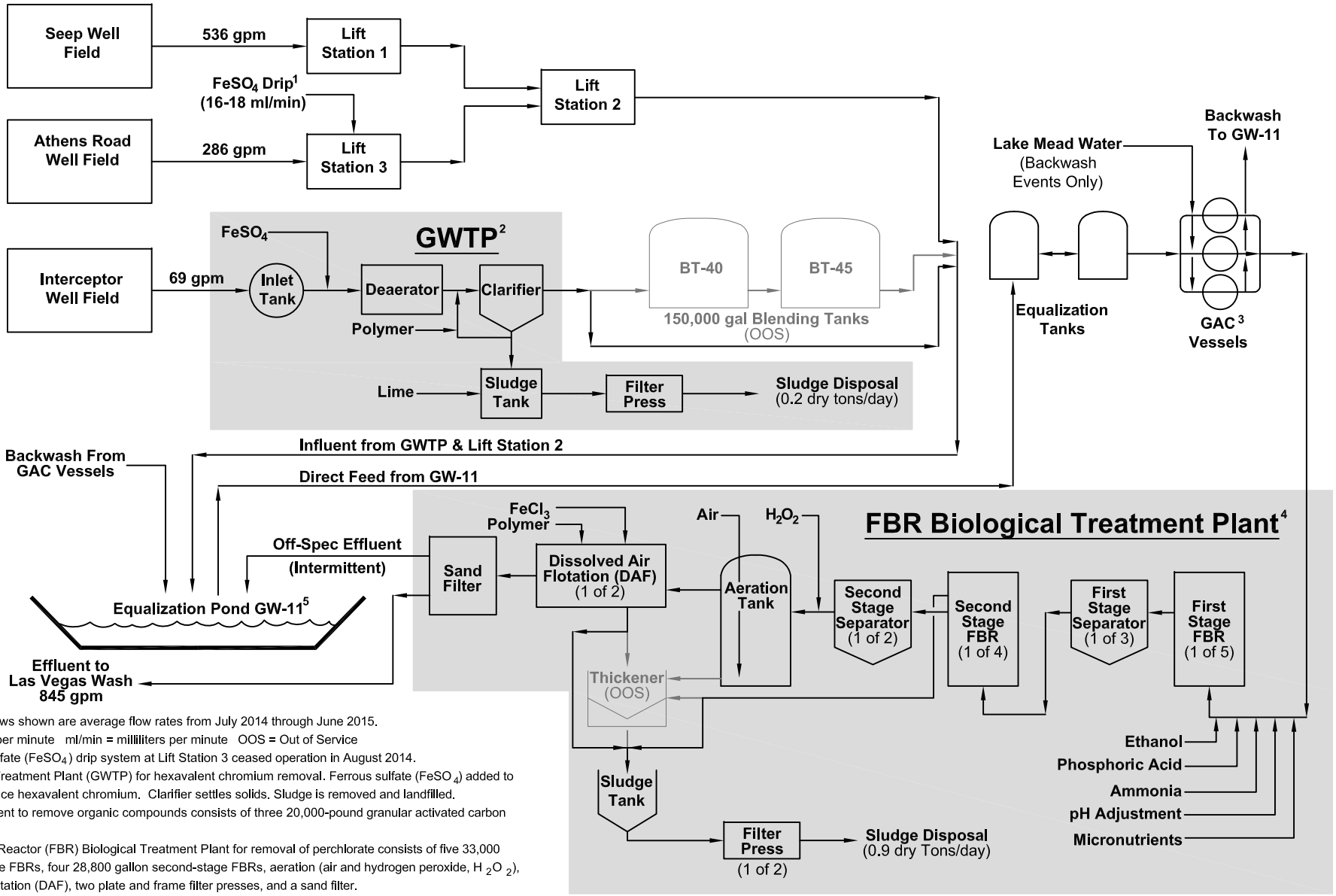

NOTES:

The process flows shown are average flow rates from July 2014 through June 2015.
gpm = gallons per minute ml/min = milliliters per minute OOS = Out of Service

1) The ferrous sulfate ($FeSO_4$) drip system at Lift Station 3 ceased operation in August 2014.
2) Groundwater Treatment Plant (GWTP) for hexavalent chromium removal. Ferrous sulfate ($FeSO_4$) added to chemically reduce hexavalent chromium. Clarifier settles solids. Sludge is removed and landfilled.
3) Carbon treatment to remove organic compounds consists of three 20,000-pound granular activated carbon (GAC) vessels.
4) Fluidized Bed Reactor (FBR) Biological Treatment Plant for removal of perchlorate consists of five 33,000 gallon first-stage FBRs, four 28,800 gallon second-stage FBRs, aeration (air and hydrogen peroxide, H_2O_2), dissolved air flotation (DAF), two plate and frame filter presses, and a sand filter.
5) GW-11 operated as an equalization basin from March 27 through August 6, 2014. After that date, groundwater entered the equalization tanks directly from lift station 2 and the GWTP. GW-11 started serving as an equalization basin again starting in January 2015.

RAMBOLL ENVIRON

Groundwater Extraction and Treatment System (GWETS) Flow Diagram
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

Figure **5**

Drafter: RS Date: 9/23/15 Contract Number: 21-37300A Approved: Revised:

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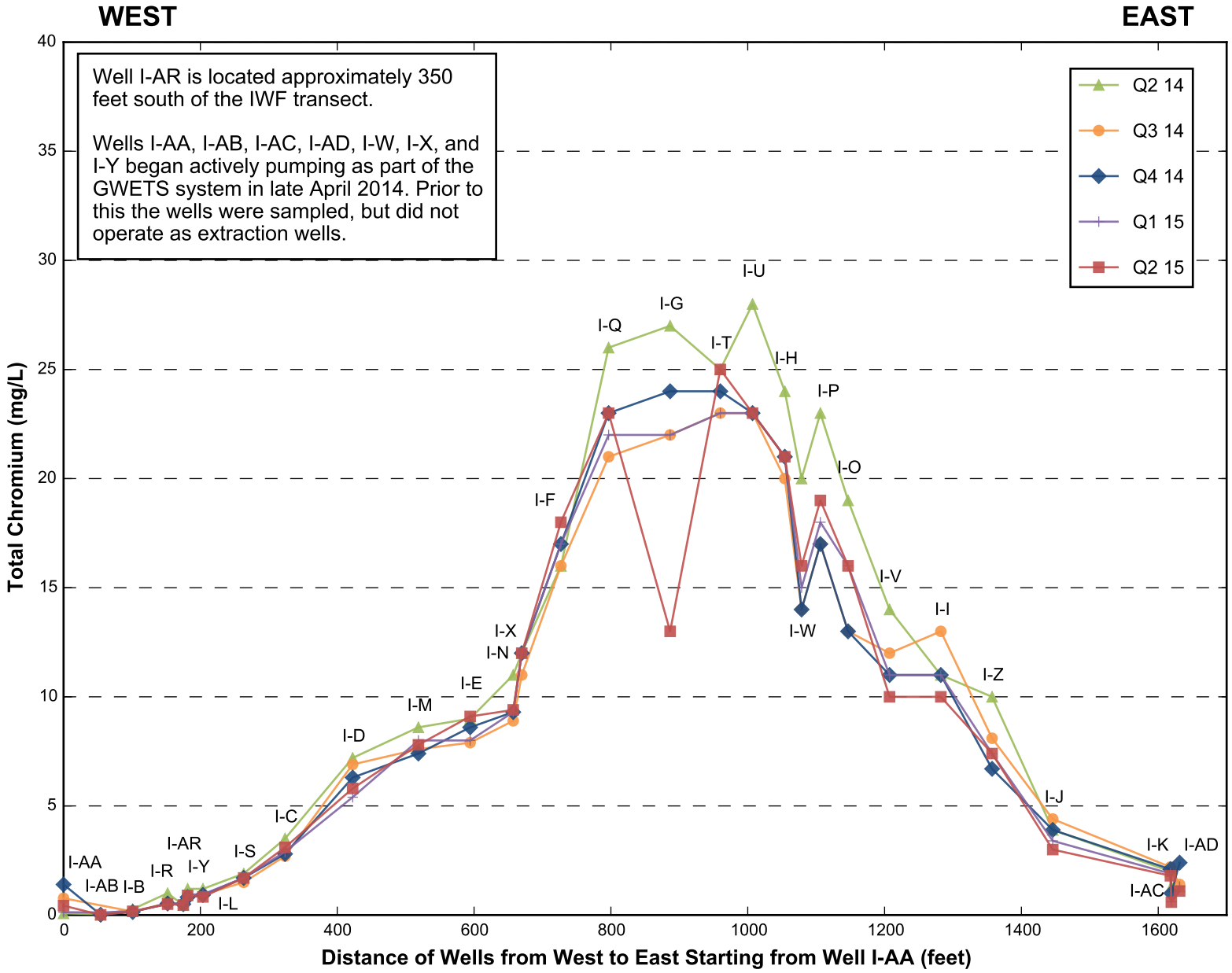

RAMBOLL ENVIRON

Interceptor Well Field Total Chromium Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
6

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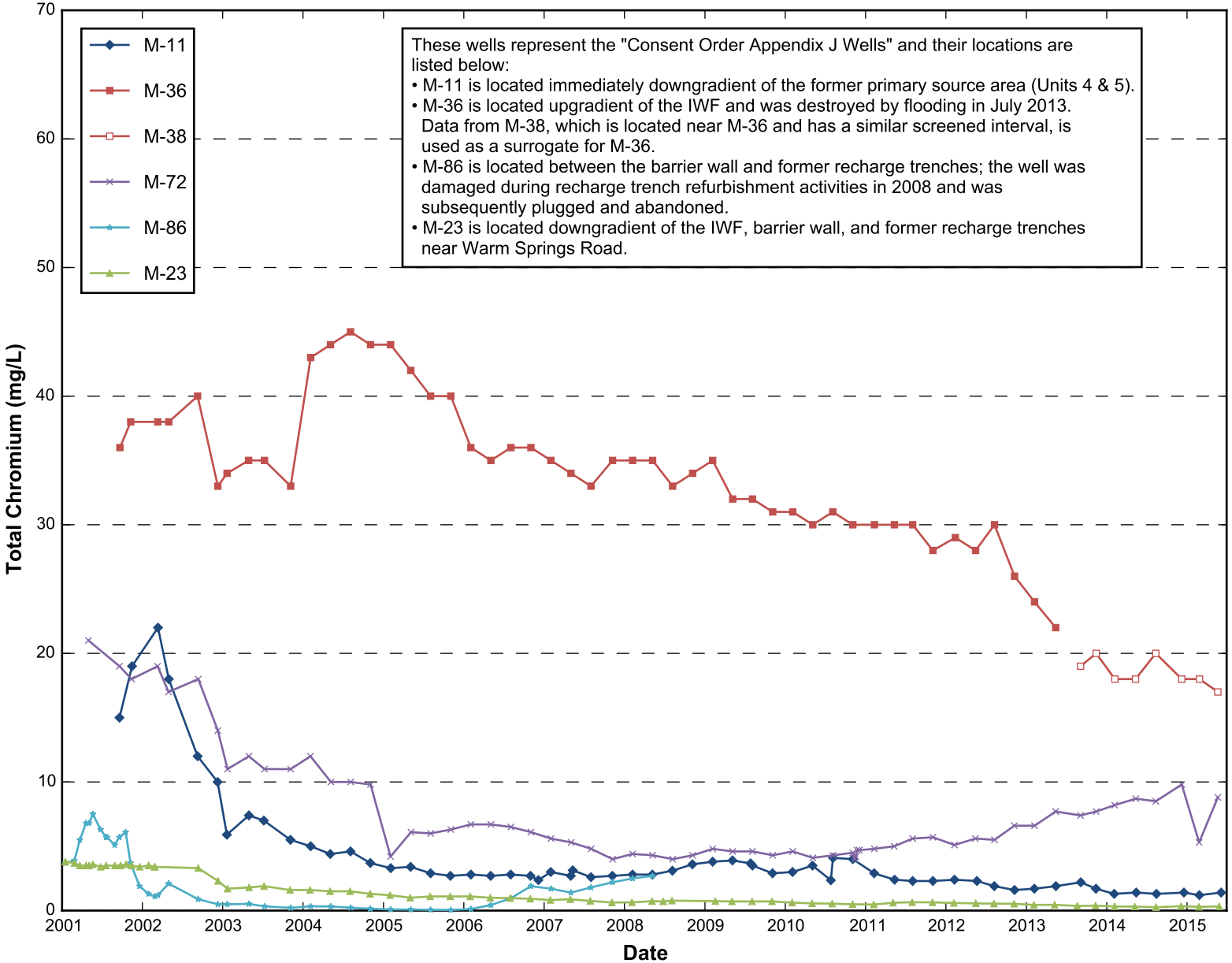

RAMBOLL ENVIRON

Total Chromium Concentration Trends for Select Wells
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
7

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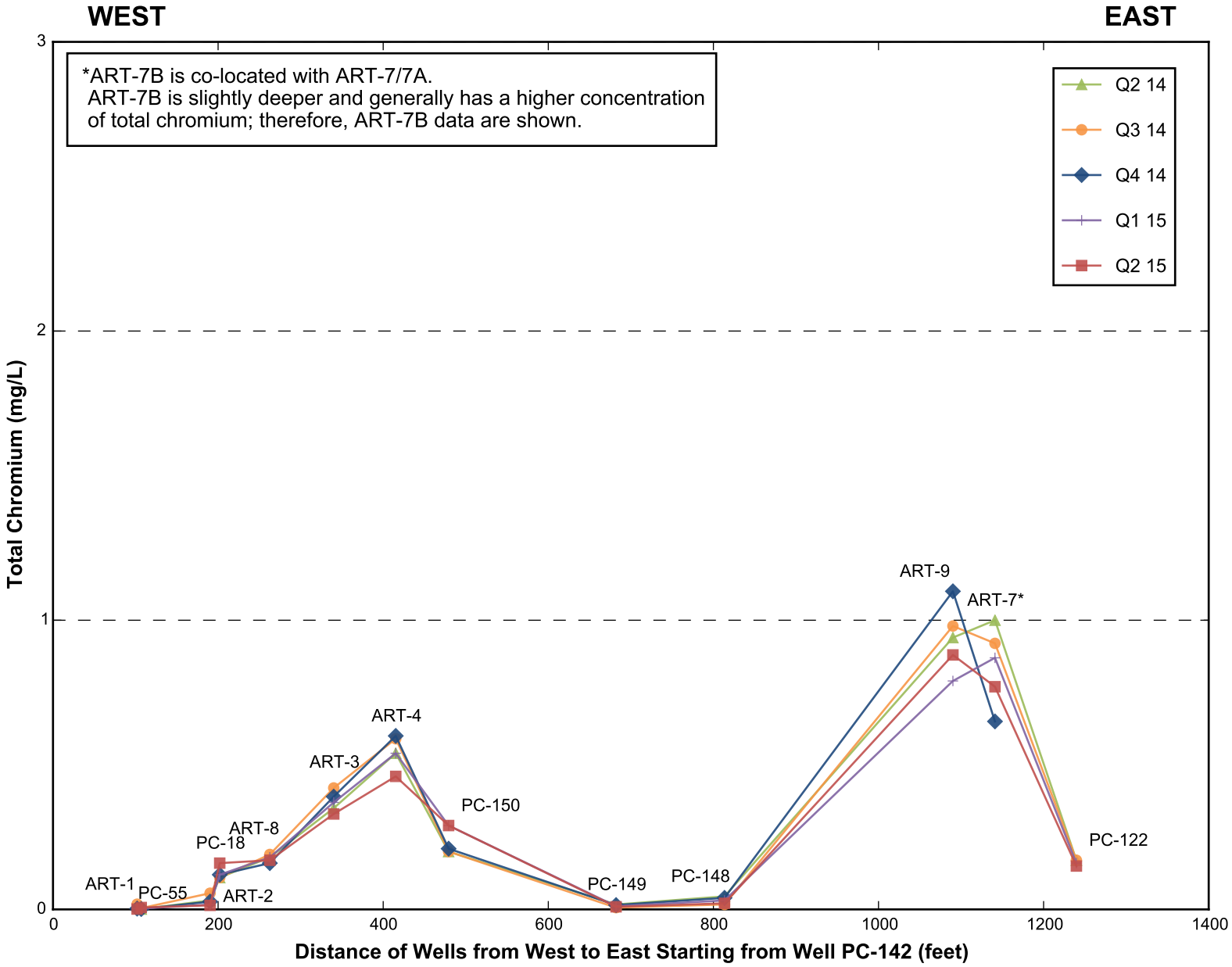

RAMBOLL ENVIRON

Athens Road Well Field Total Chromium Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
8

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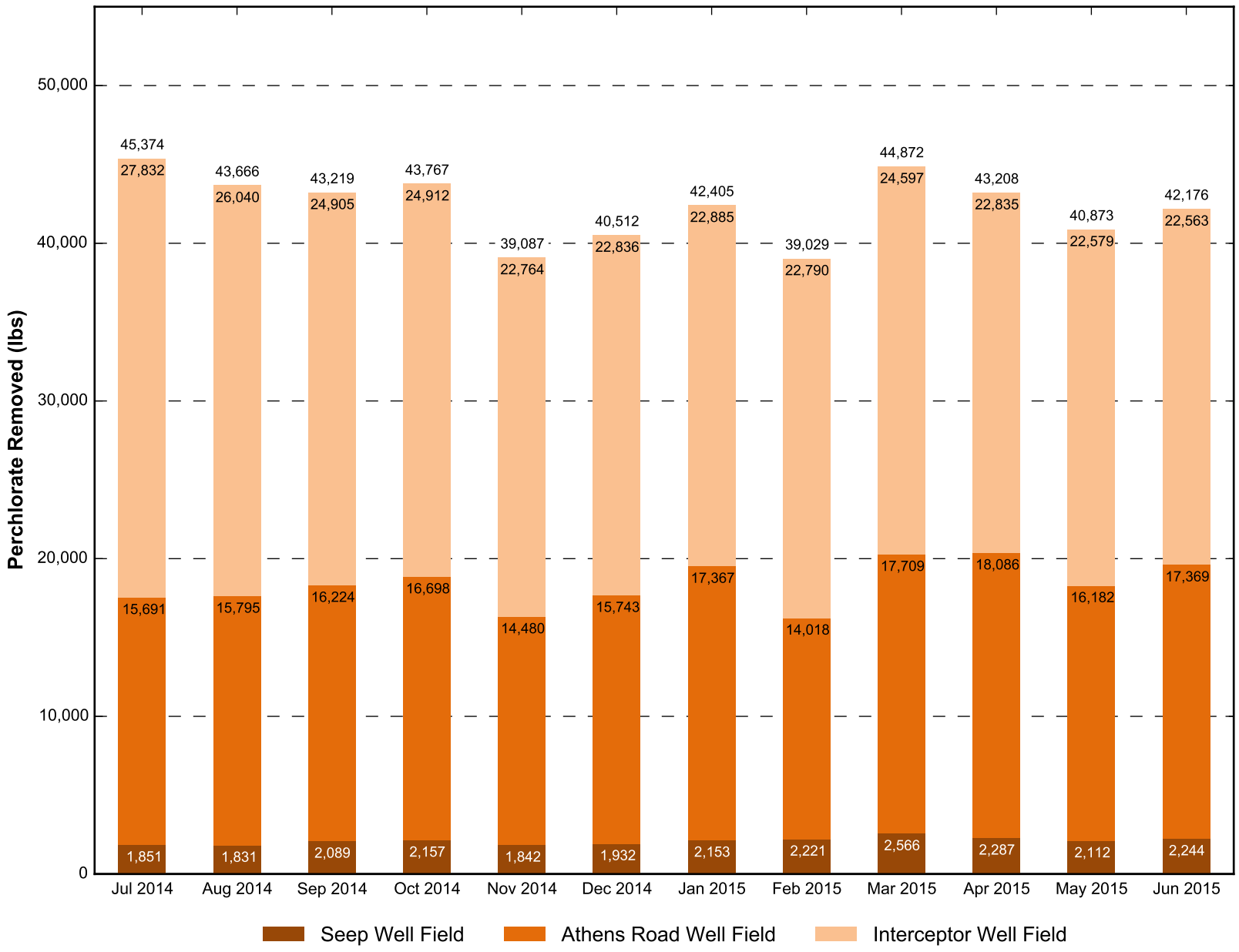

RAMBOLL ENVIRON

Perchlorate Removed from the Environment July 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
9

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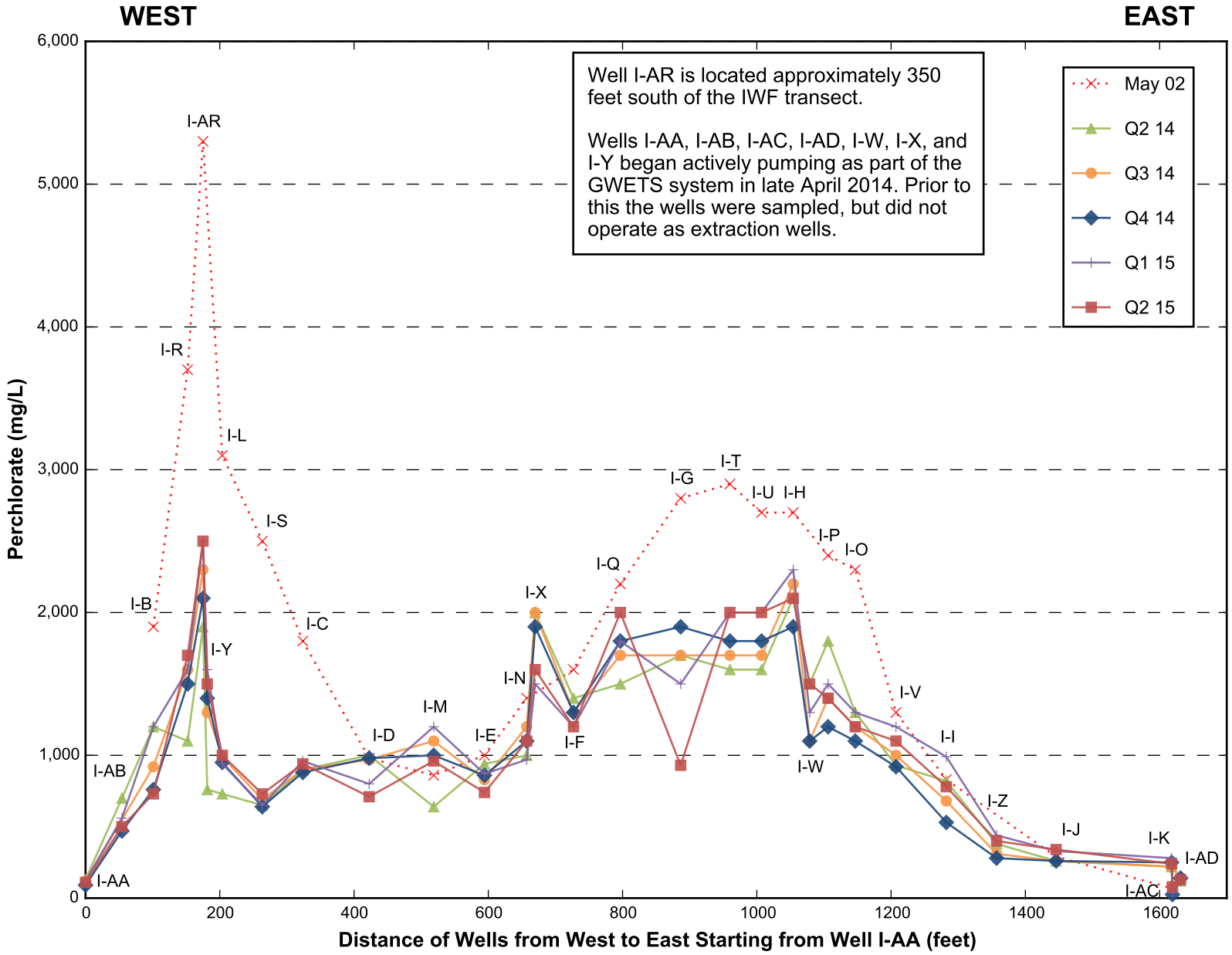

RAMBOLL ENVIRON

Interceptor Well Field Perchlorate Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
10

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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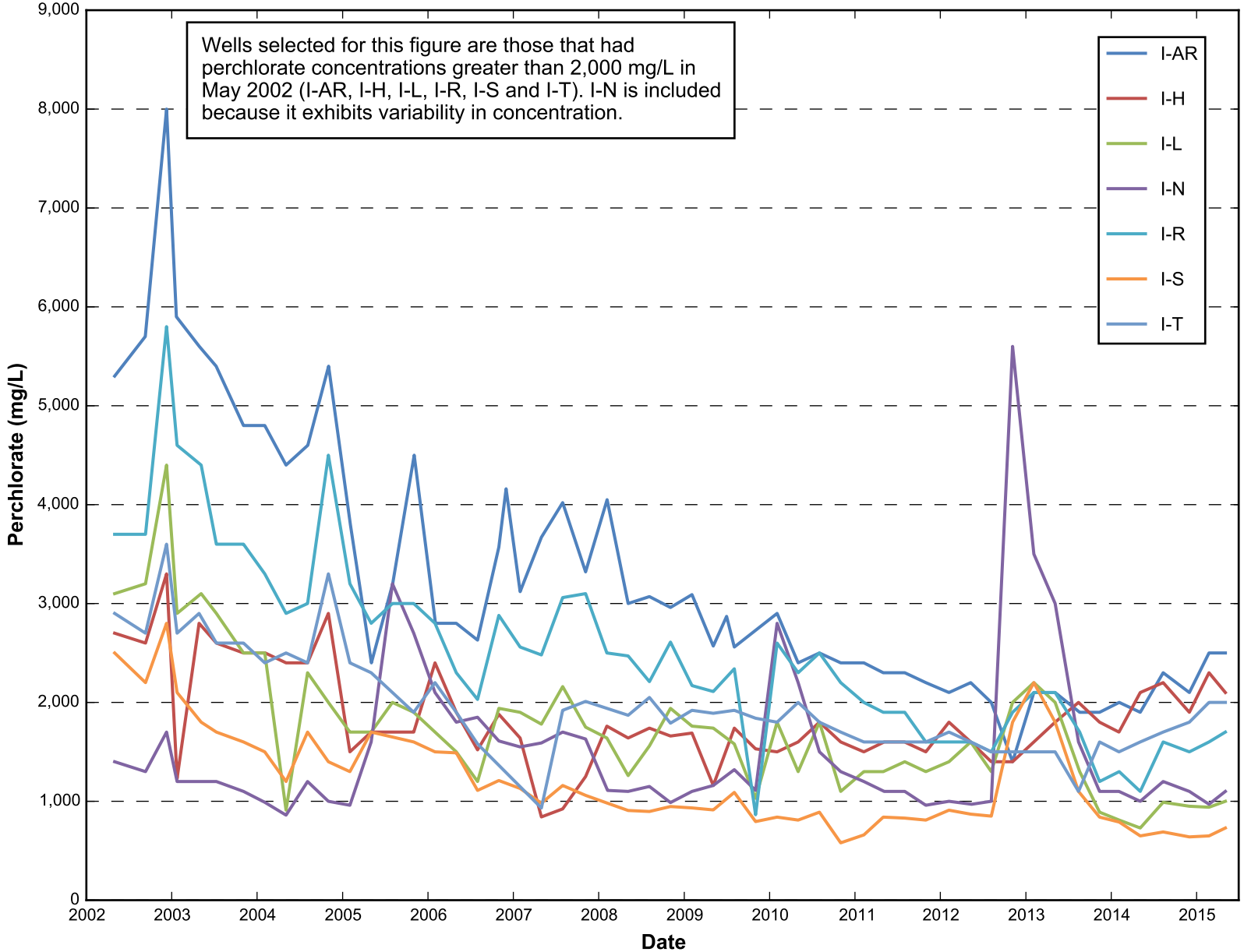

RAMBOLL ENVIRON

Interceptor Well Field Perchlorate Concentration Trends for Select Wells
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
11

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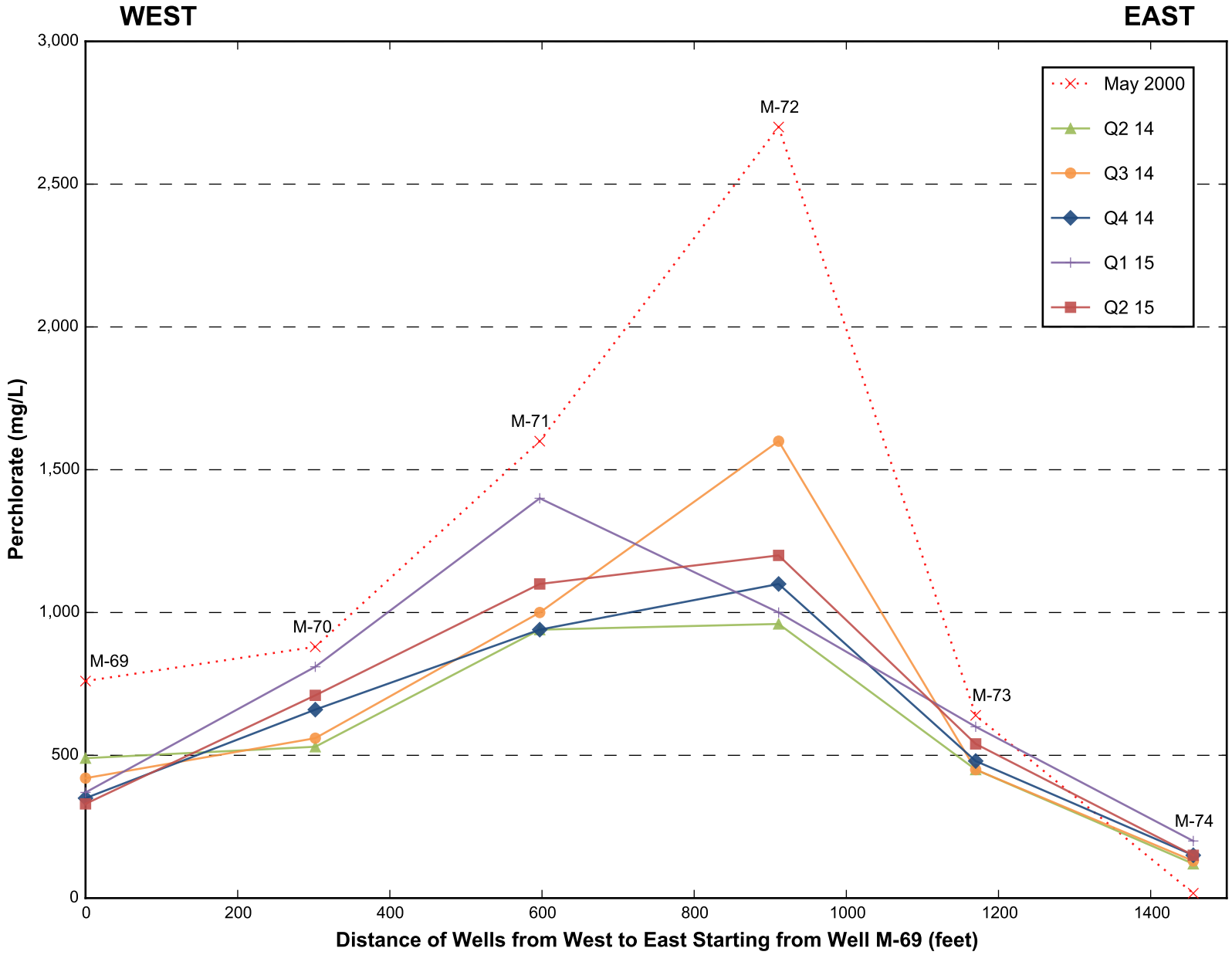

RAMBOLL ENVIRON

Barrier Wall Well Line Perchlorate Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
12

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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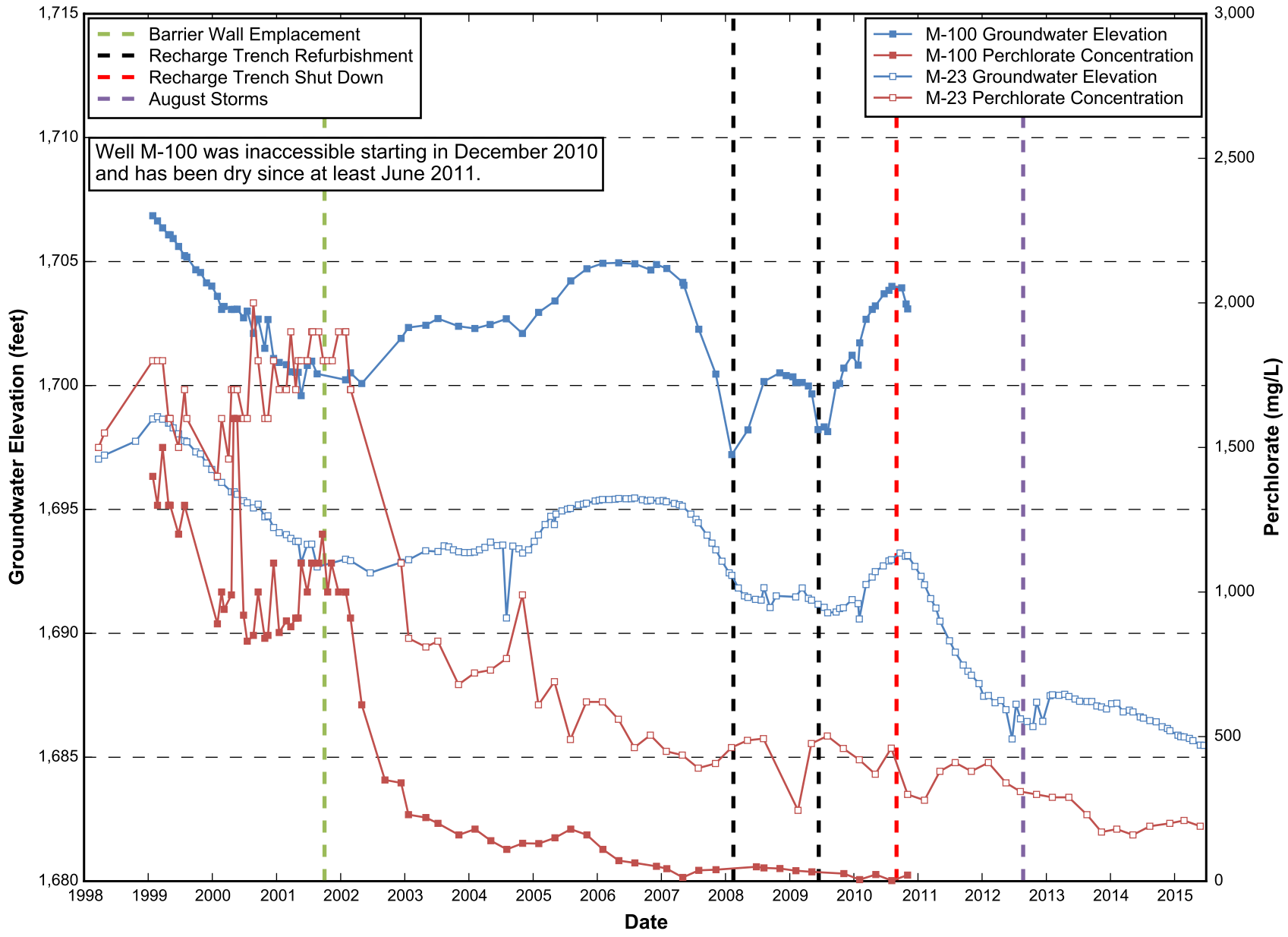


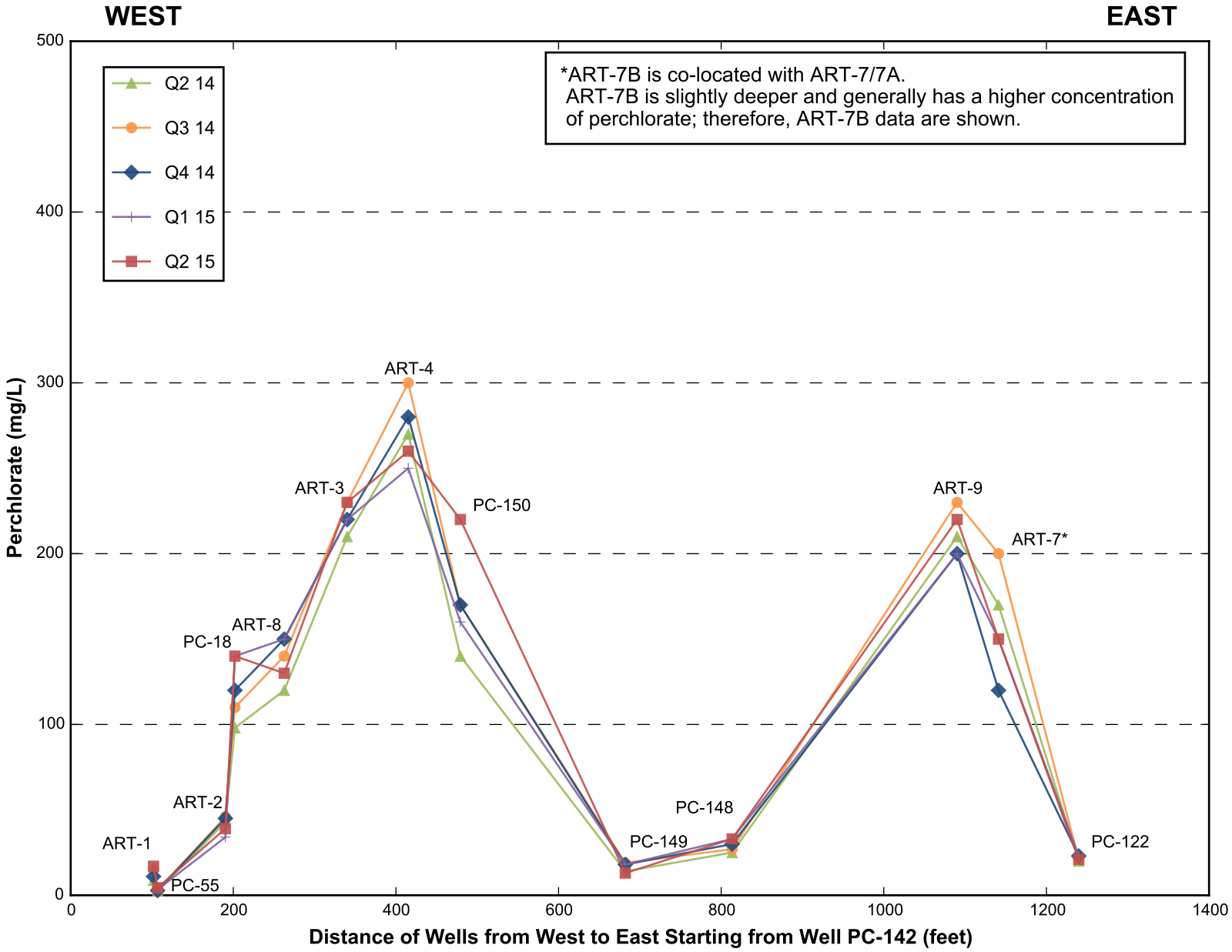
RAMBOLL ENVIRON

Wells M-100 and M-23 Perchlorate Concentrations vs. Groundwater Elevation Trends
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
13

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



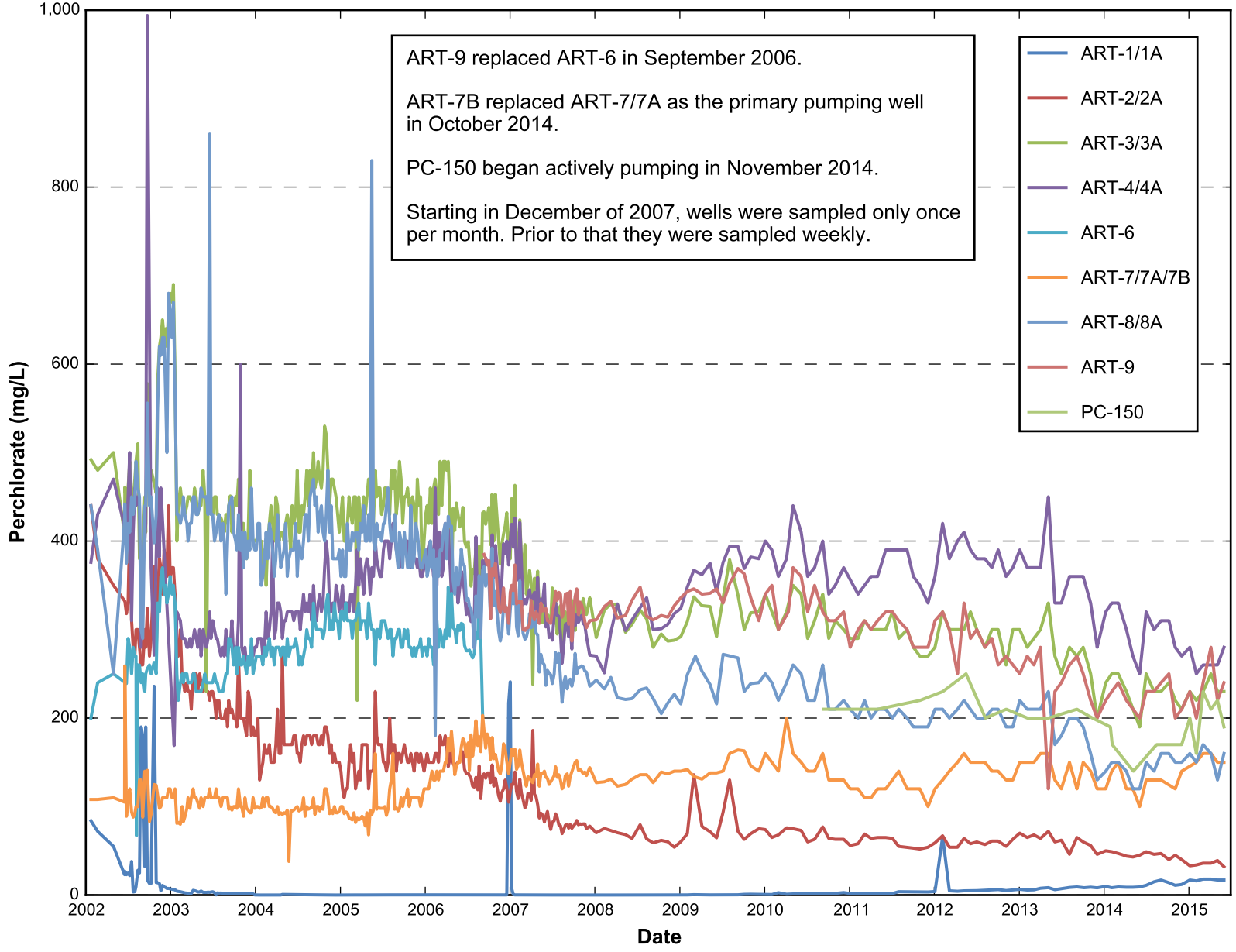
RAMBOLL ENVIRON

Athens Road Well Field Perchlorate Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
14

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



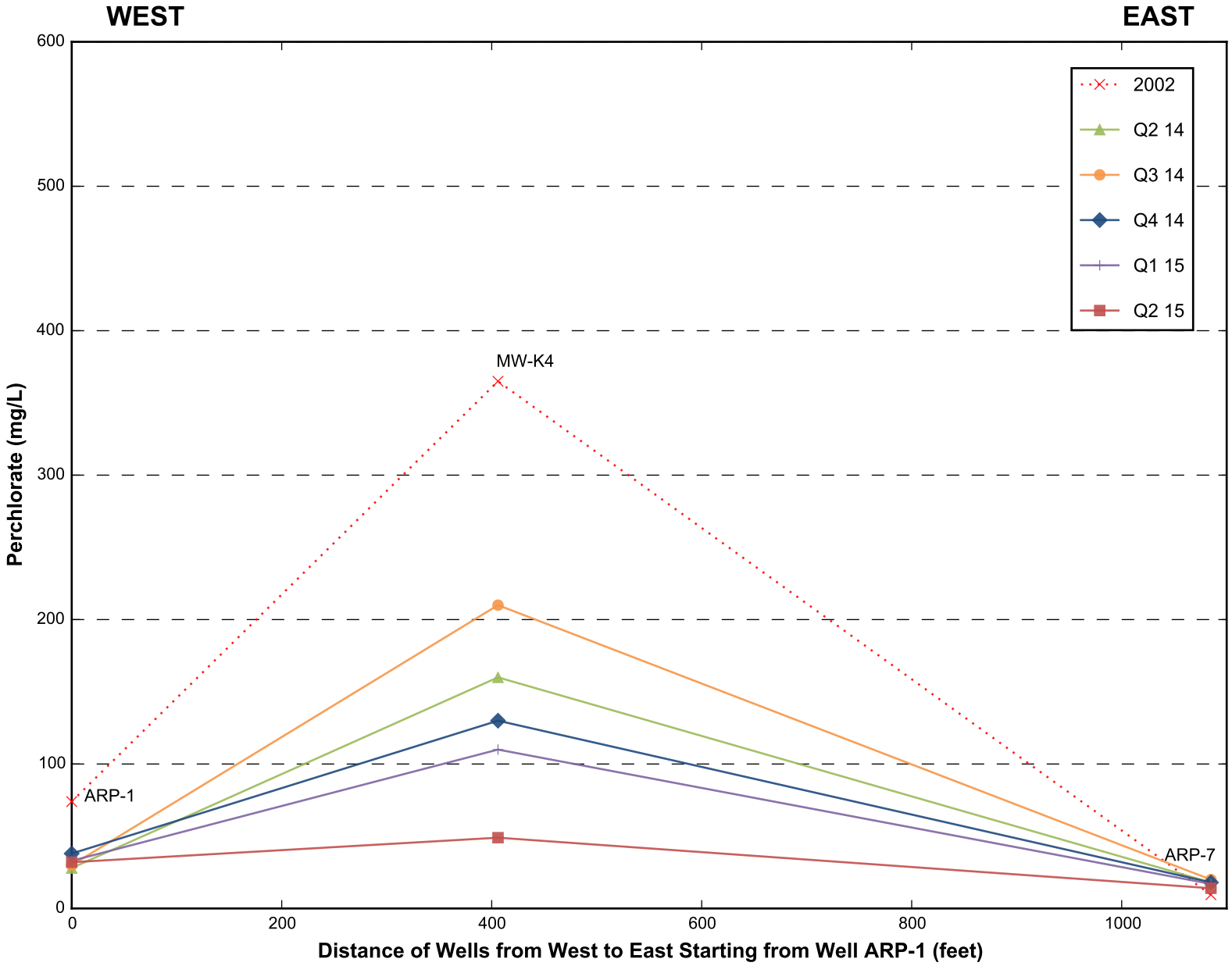
RAMBOLL ENVIRON

Athens Road Well Field Perchlorate Concentration Trends
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
15

Drafter: KGL Date: 10/29/15 Contract Number: 21-37300A Approved: Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



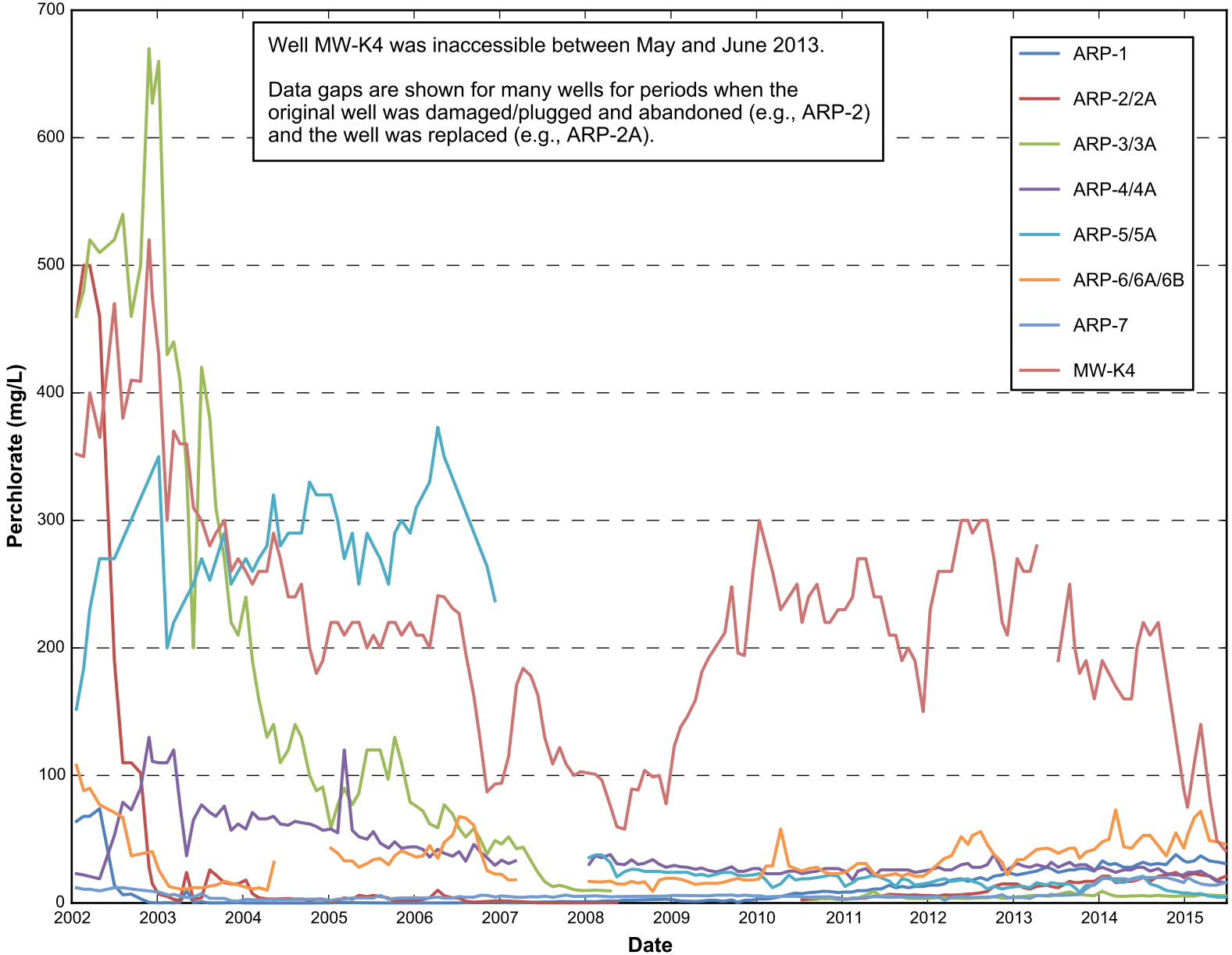
RAMBOLL ENVIRON

Athens Road Piezometer Well Line Perchlorate Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
16

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



RAMBOLL ENVIRON

Athens Road Piezometer Well Line Perchlorate Concentration Trends
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
17

Drafter: KGL Date: 10/29/15 Contract Number: 21-37300A Approved: Revised:

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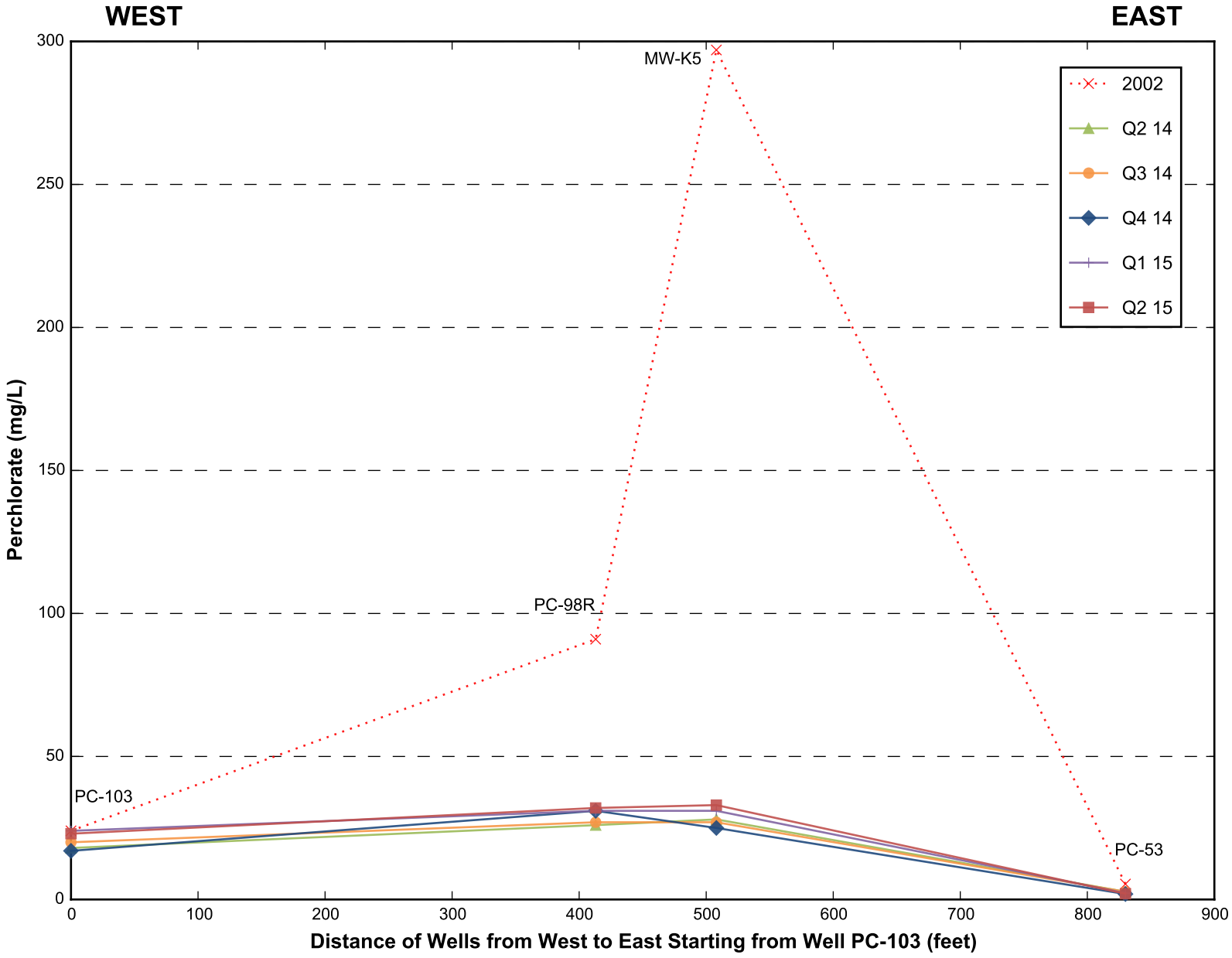

RAMBOLL ENVIRON

City of Henderson WRF Well Line Perchlorate Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
18

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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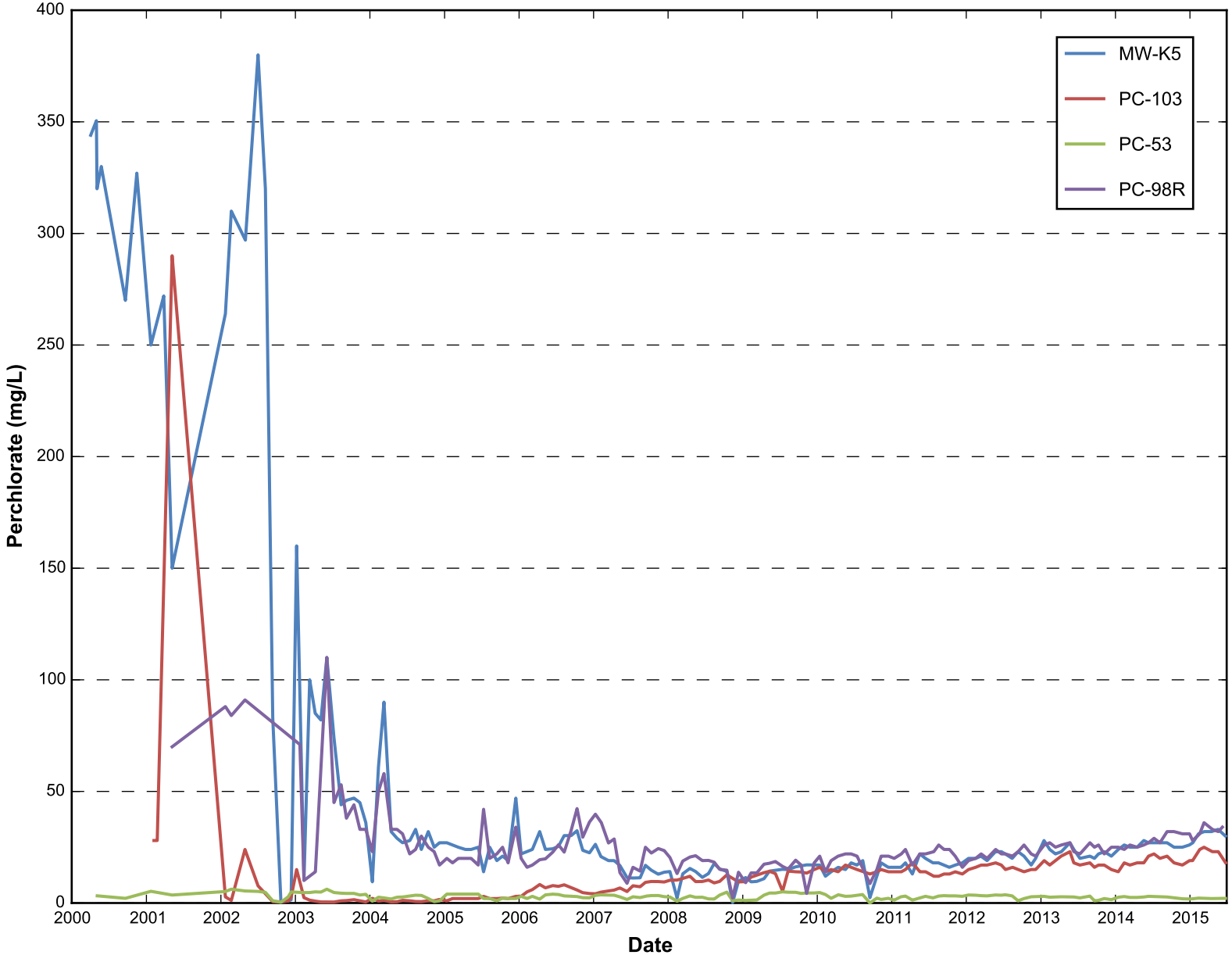

RAMBOLL ENVIRON

City of Henderson WRF Well Line Perchlorate Concentration Trends
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
19

Drafter: KGL Date: 10/29/15 Contract Number: 21-37300A Approved: Revised:

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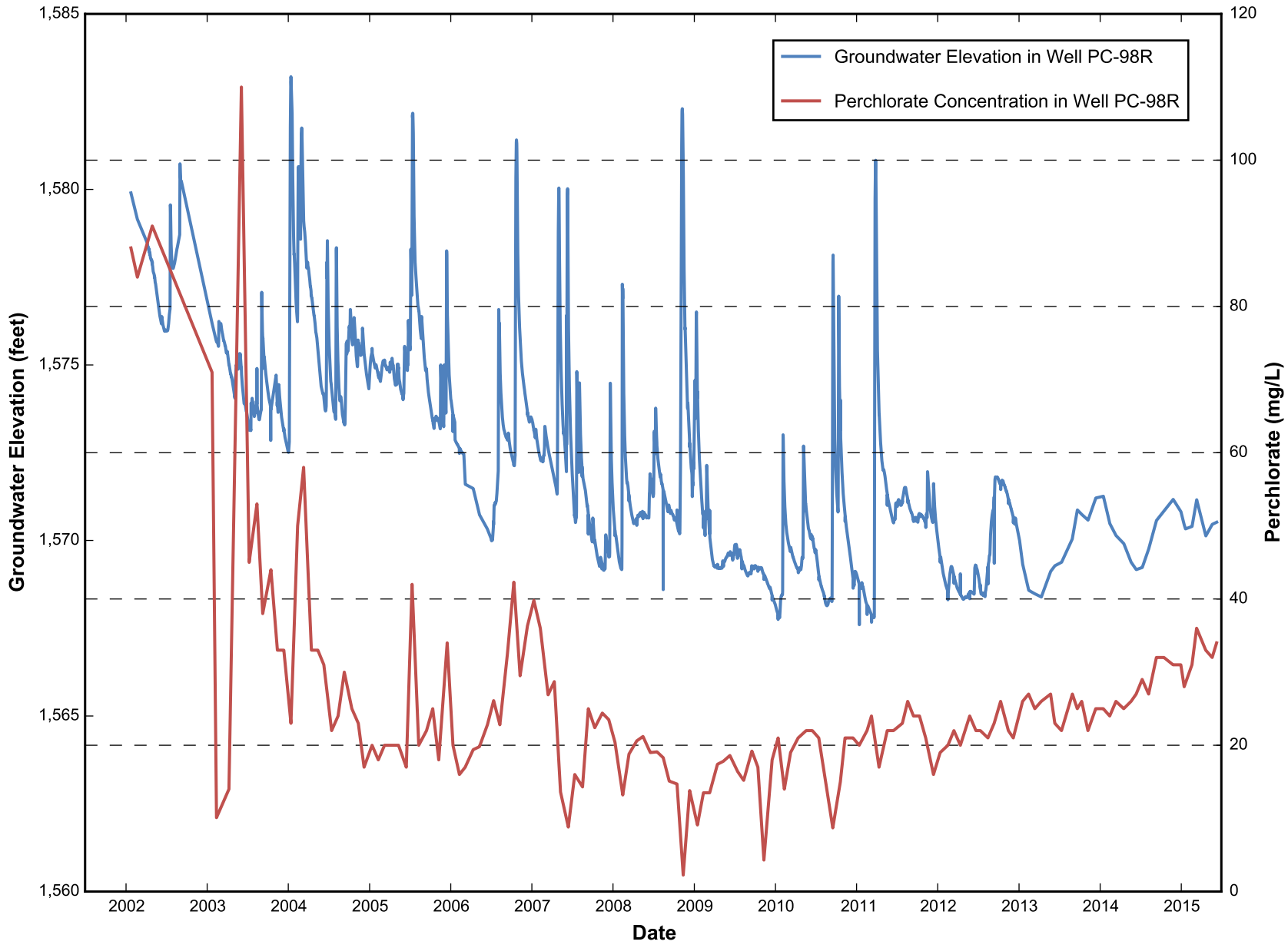


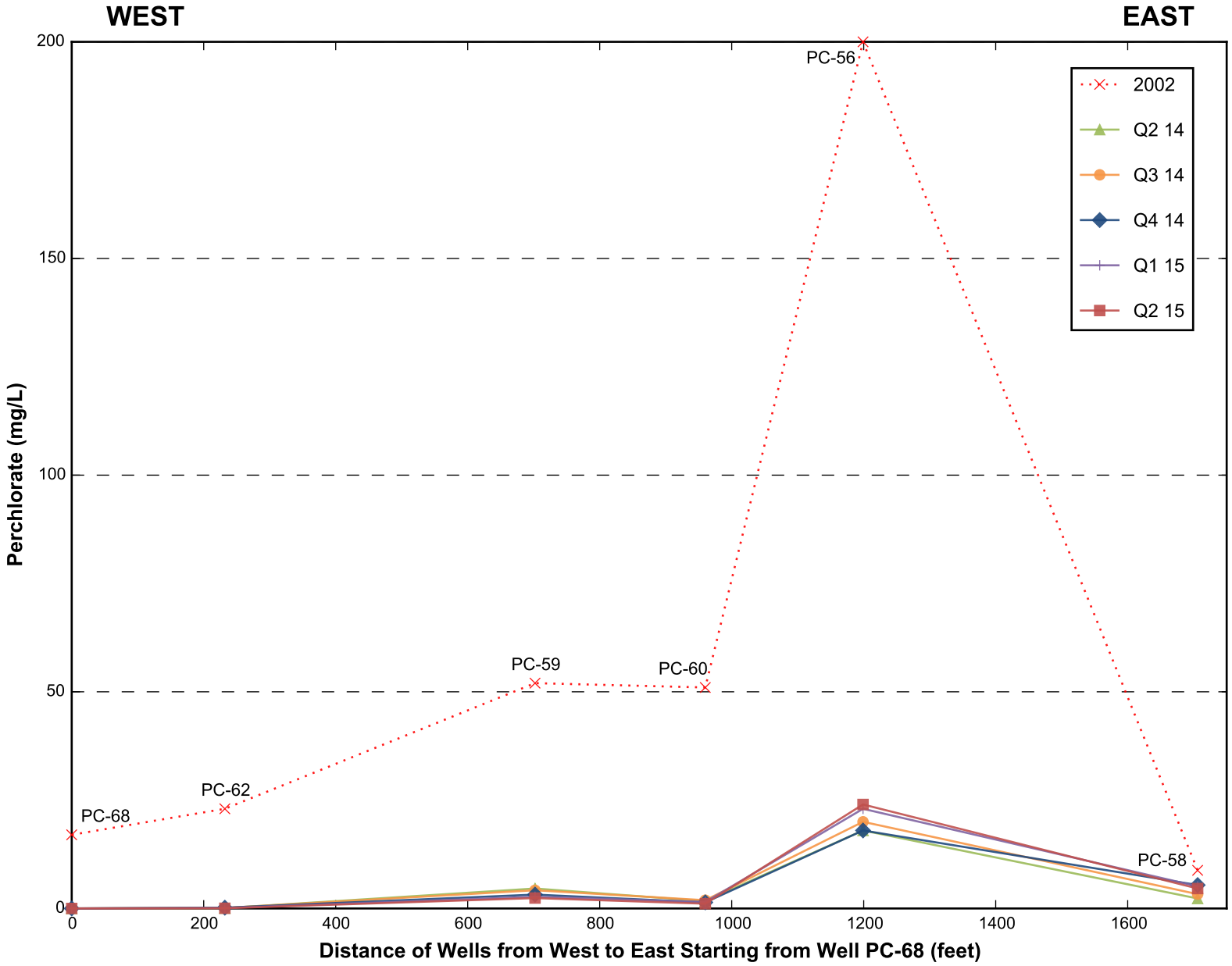
RAMBOLL ENVIRON

Well PC-98R Perchlorate Concentration vs. Water Elevation Trends
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
20

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



RAMBOLL ENVIRON

Lower Ponds Well Line Perchlorate Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
21

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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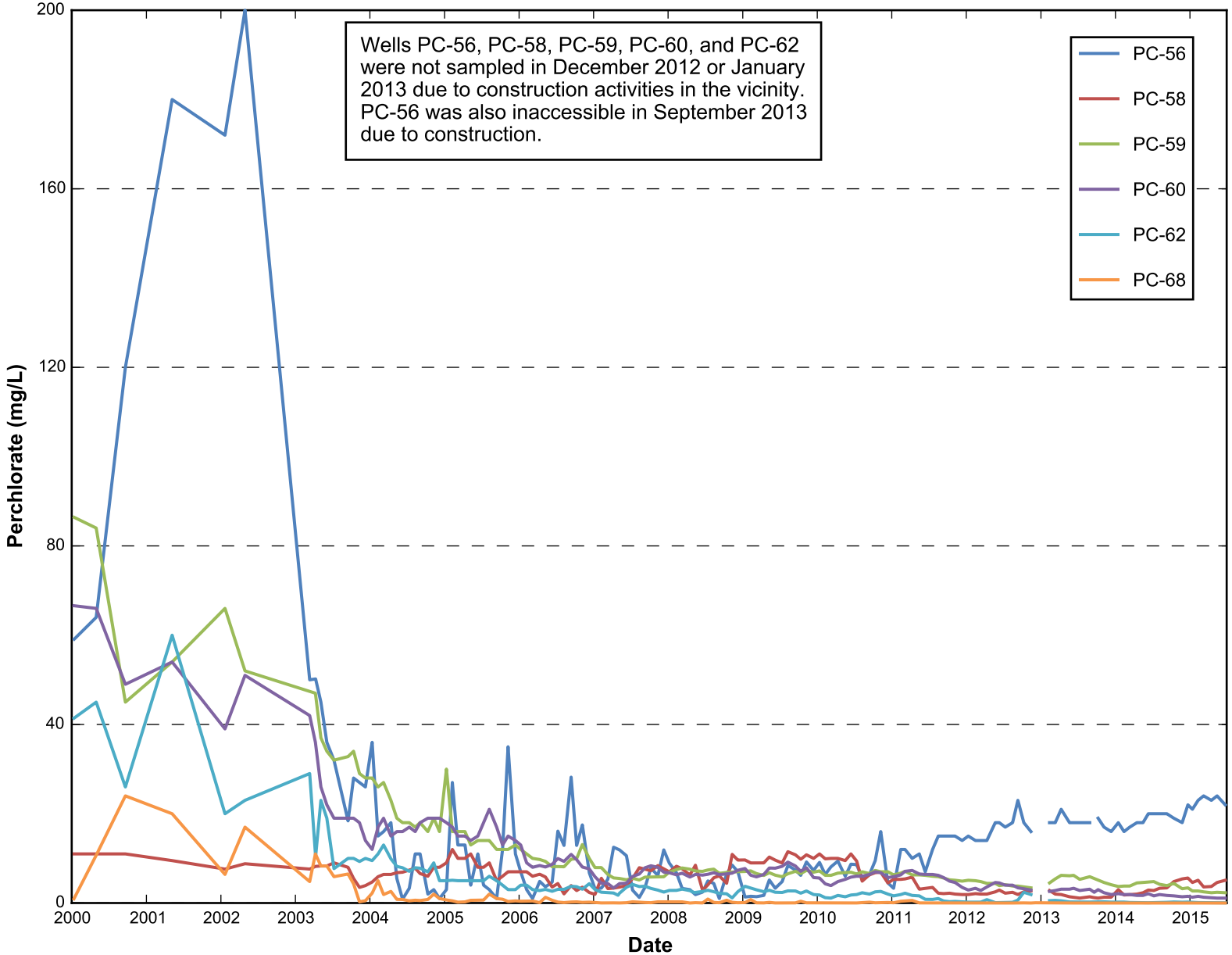


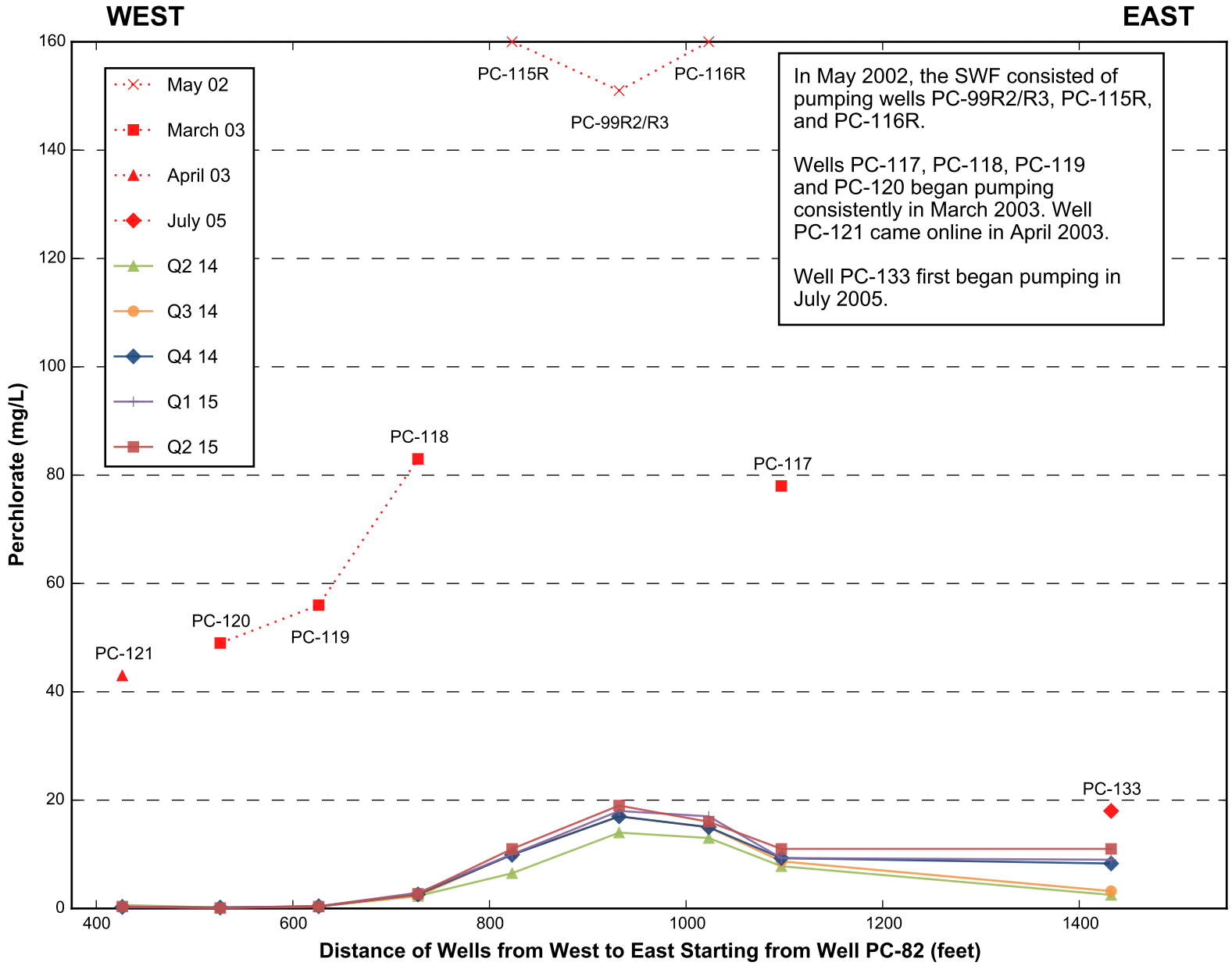
RAMBOLL ENVIRON

Lower Ponds Well Line Perchlorate Concentration Trends
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
22

Drafter: KGL Date: 10/29/15 Contract Number: 21-37300A Approved: Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



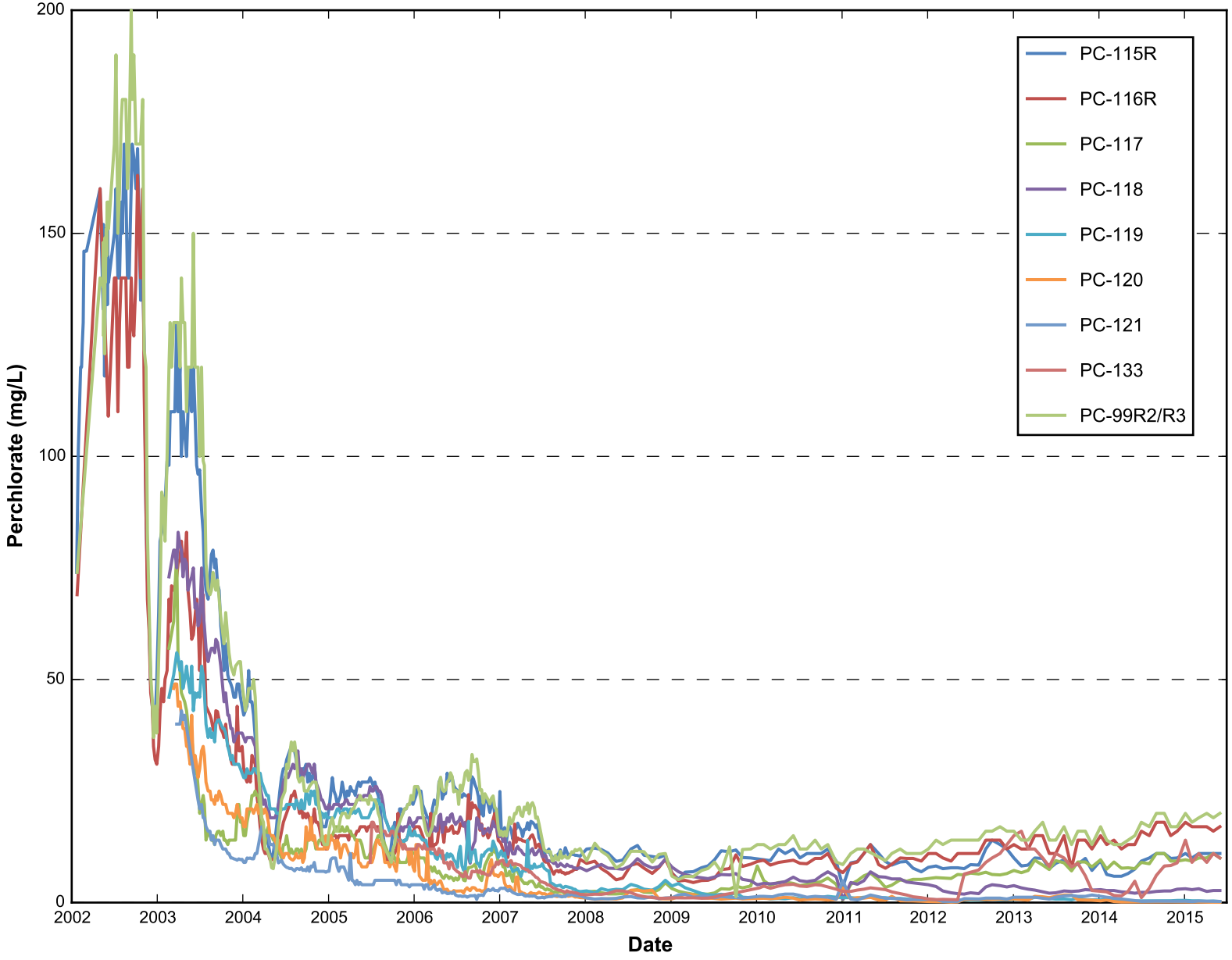
RAMBOLL ENVIRON

Seep Well Field Perchlorate Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
23

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



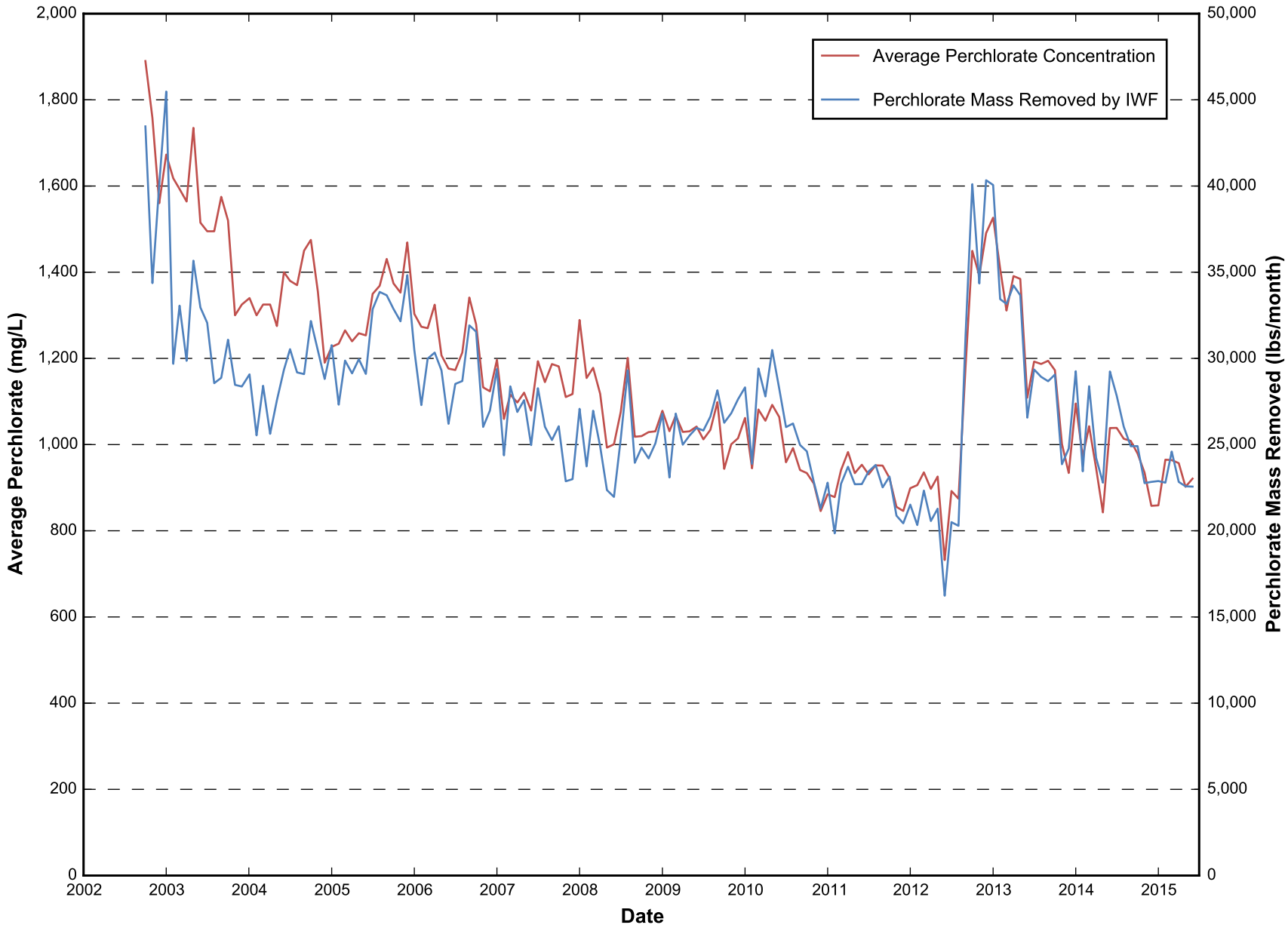
RAMBOLL ENVIRON

Seep Well Field Perchlorate Concentration Trends
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
24

Drafter: KGL Date: 10/29/15 Contract Number: 21-37300A Approved: Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



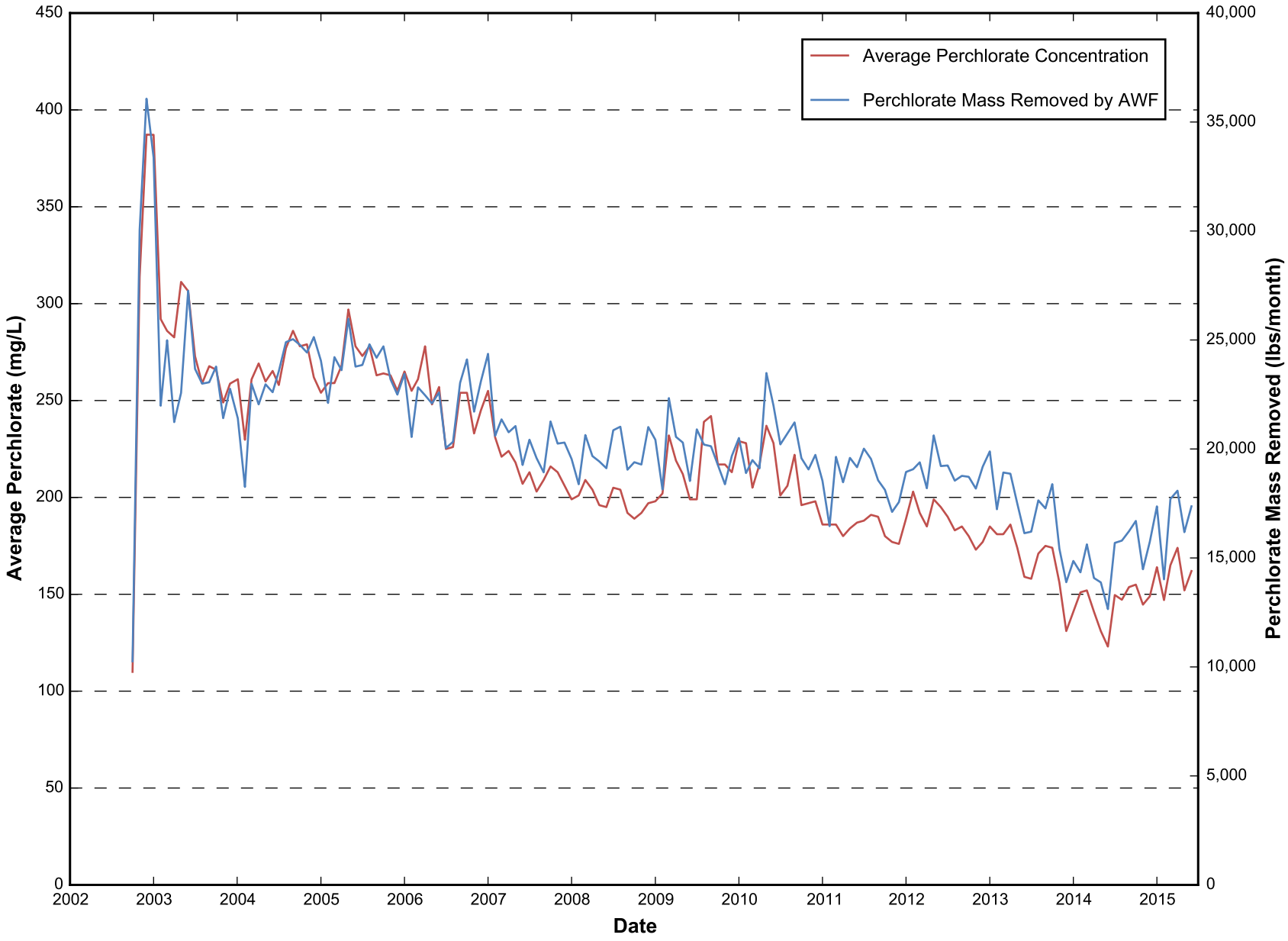
RAMBOLL ENVIRON

Interceptor Well Field Average Perchlorate Concentration and Mass Removed
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
25

Drafter: KGL | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



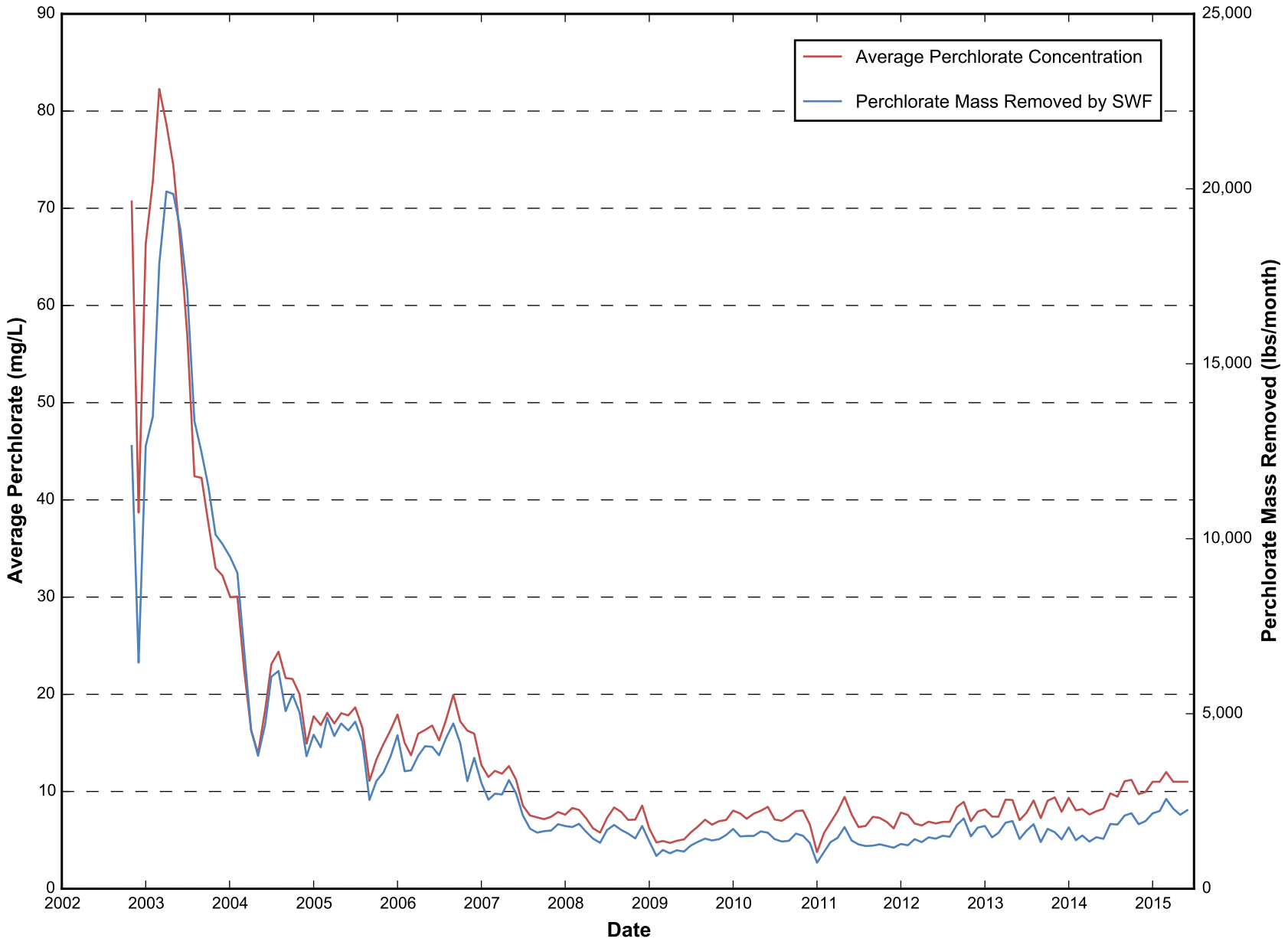
RAMBOLL ENVIRON

Athens Road Well Field Average Perchlorate Concentration and Mass Removed
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
26

Drafter: KGL | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



RAMBOLL ENVIRON

Seep Well Field Average Perchlorate Concentration and Mass Removed
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
27

Drafter: KGL | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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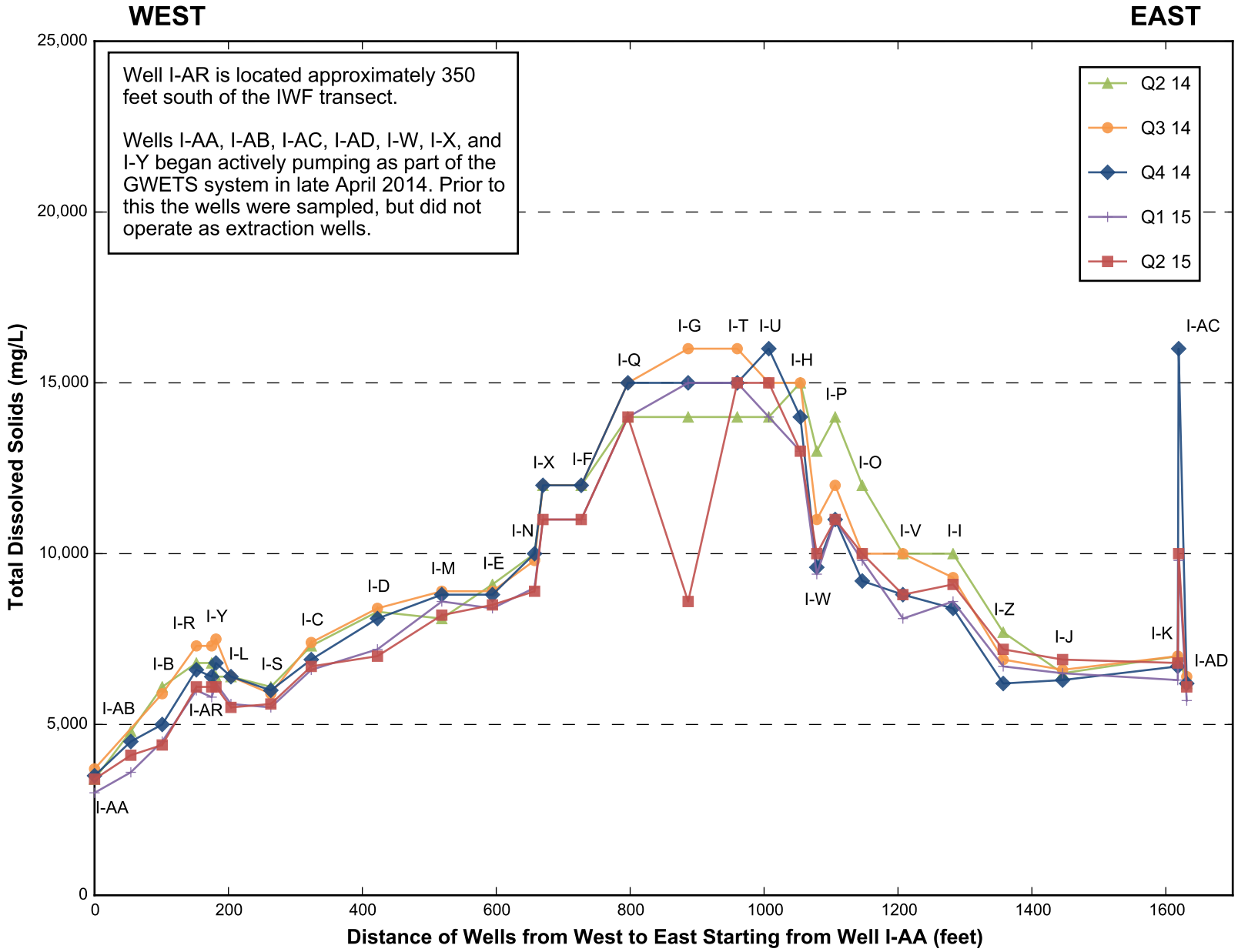


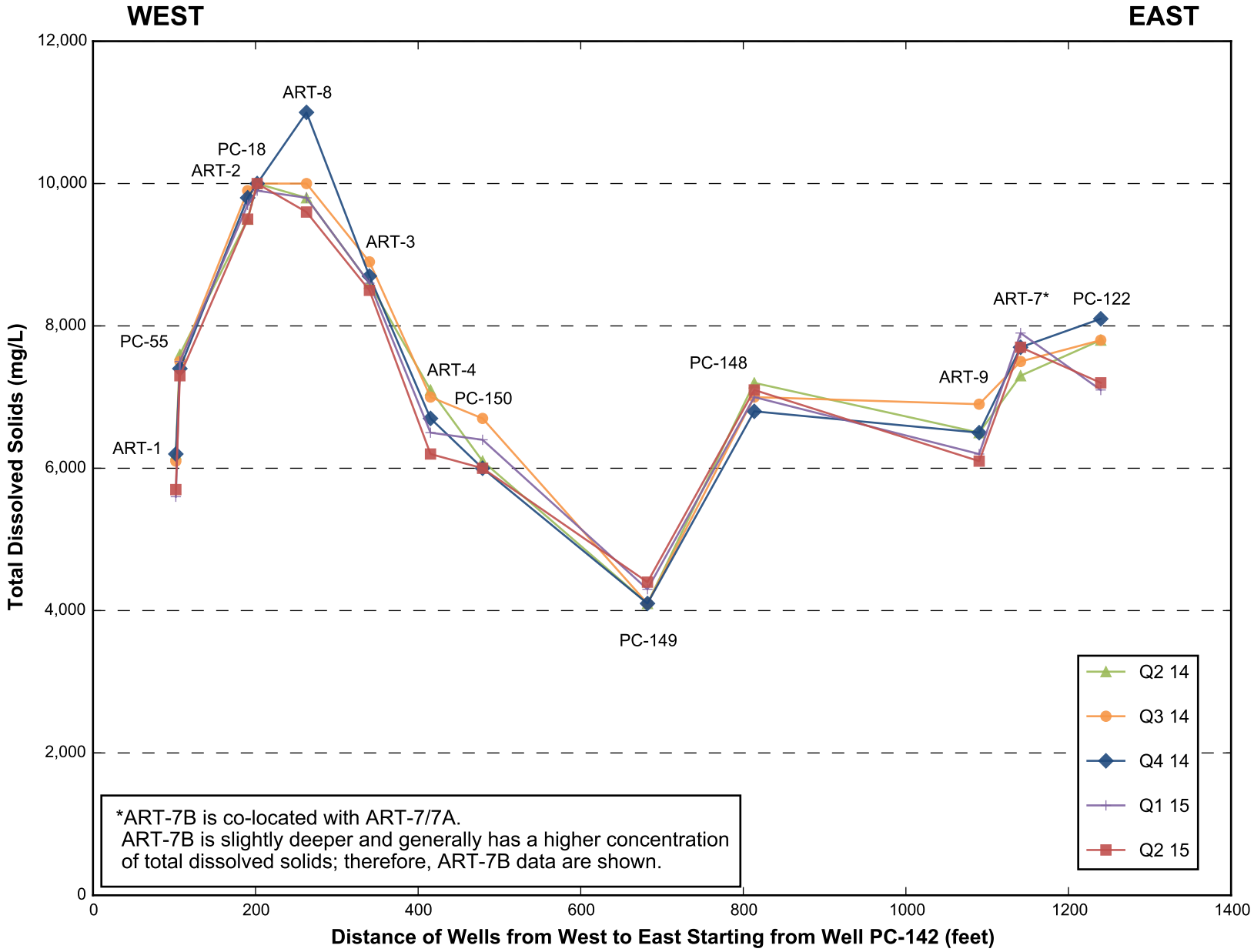
RAMBOLL ENVIRON

Interceptor Well Field Total Dissolved Solids Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
28

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



RAMBOLL ENVIRON

Athens Road Well Field Total Dissolved Solids Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
29

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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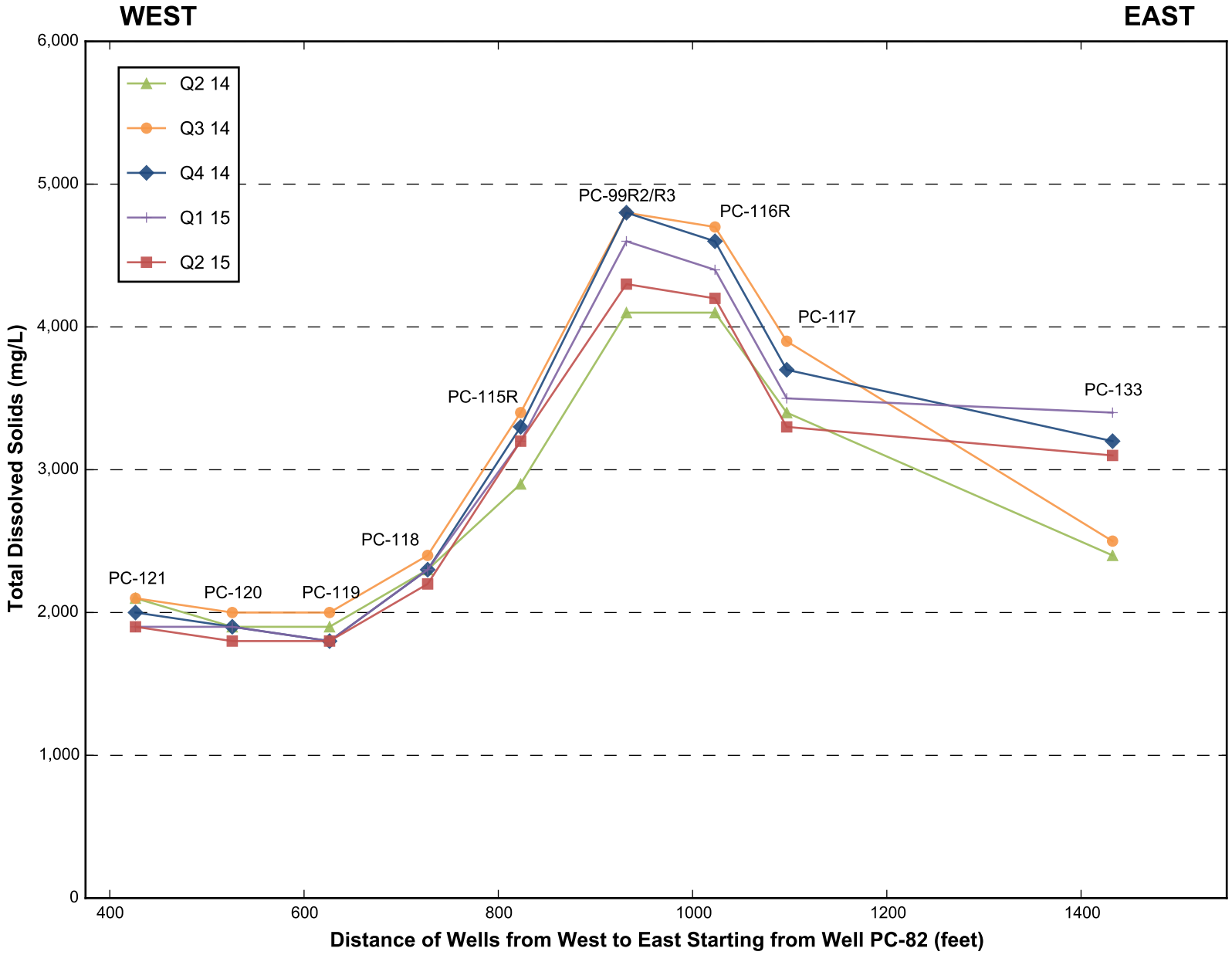
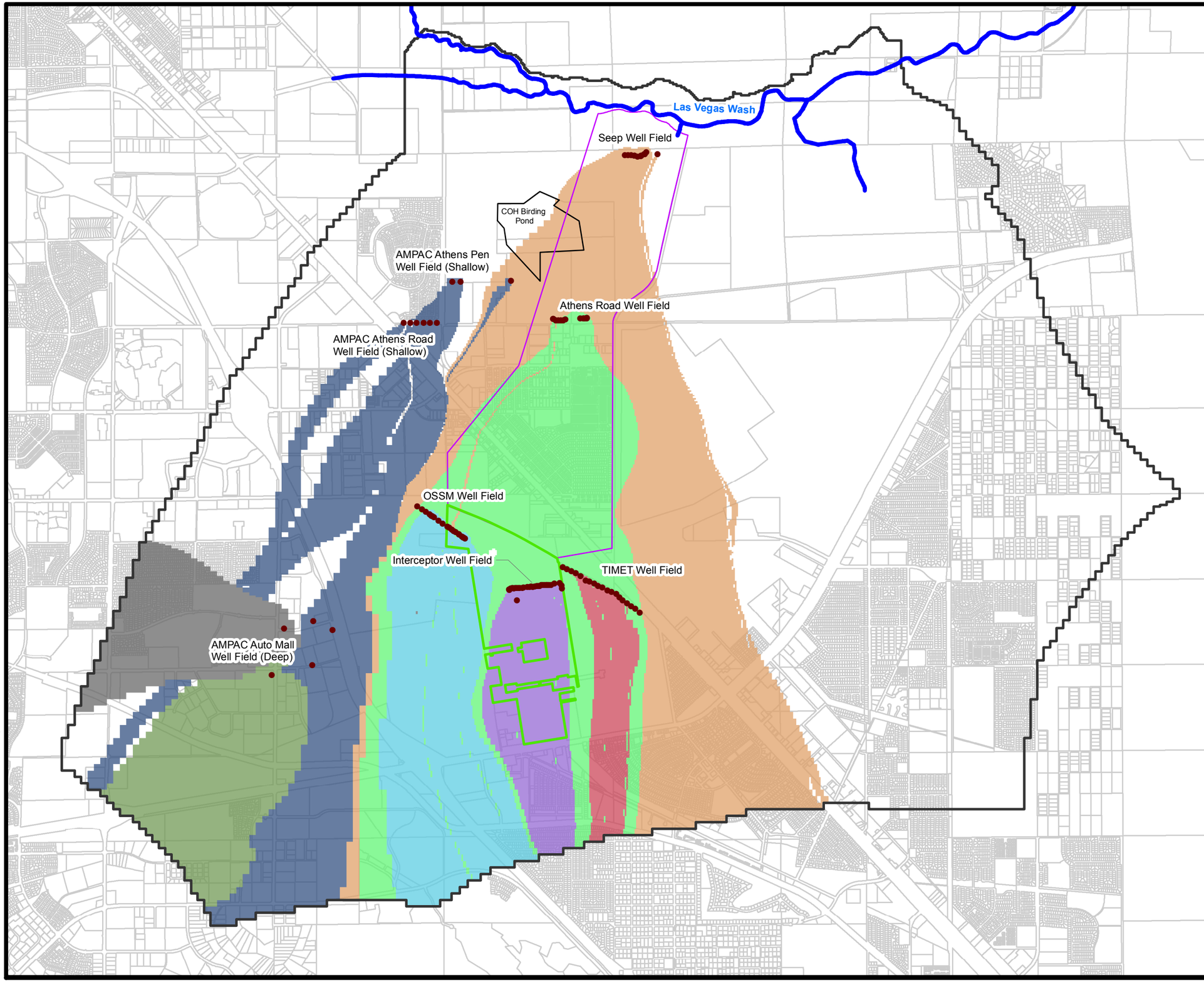


RAMBOLL ENVIRON

Seep Well Field Total Dissolved Solids Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
30

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:



EXPLANATION

- Extraction Wells
- Las Vegas Wash
- Phase 3 Model Extent
- Site Boundary
- Downgradient Plume Area

Shallow Capture Zones

- Interceptor Well Field
- Athens Road Well Field
- Seep Well Field
- OSSM Well Field
- TIMET Well Field
- AMPAC - Shallow Extraction Wells
- AMPAC - Deep Extraction Wells

Dry Zone

- Dry Zone

AMPAC = American Pacific Corporation
OSSM = Olin/Stauffer/Syngenta/Montrose
TIMET = Titanium Metals Corporation
COH = City of Henderson

N
W E
S

0 0.5 1 Miles

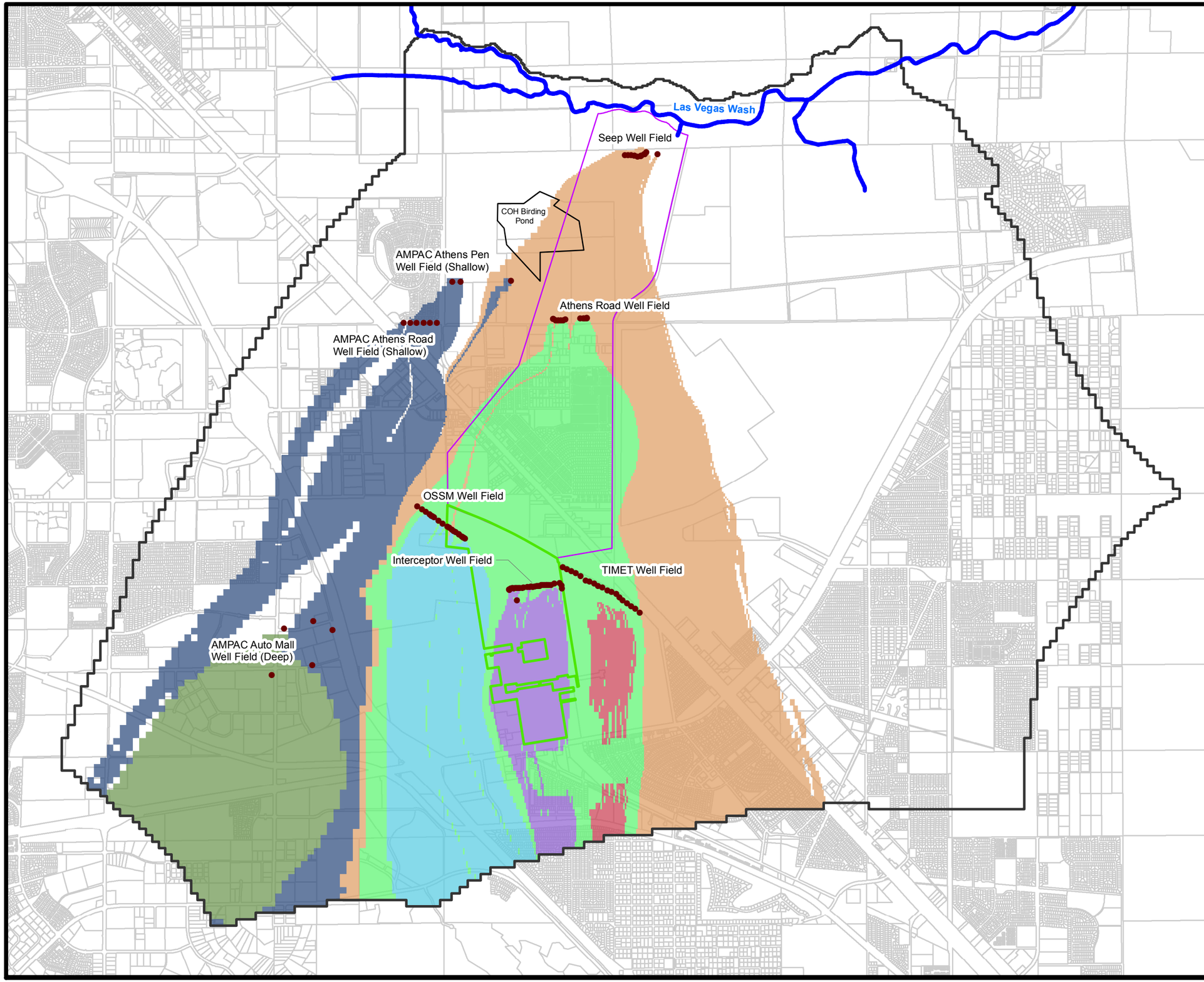
RAMBOLL ENVIRON

SHALLOW WATER BEARING CAPTURE ZONE

Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	31a

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\GIS\Fig 31a-Shallow Capture Zones.mxd



EXPLANATION

- Extraction Wells
- Las Vegas Wash
- Phase 3 Model Extent
- Site Boundary
- Downgradient Plume Area

Middle Capture Zones

- Interceptor Well Field
- Athens Road Well Field
- Seep Well Field
- OSSM Well Field
- TIMET Well Field
- AMPAC - Shallow Extraction Wells
- AMPAC - Deep Extraction Wells

AMPAC = American Pacific Corporation
OSSM = Olin/Stauffer/Syngenta/Montrose
TIMET = Titanium Metals Corporation
COH = City of Henderson

N
W E
S

0 0.5 1 Miles

RAMBOLL ENVIRON

MIDDLE WATER BEARING CAPTURE ZONE

Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	31b

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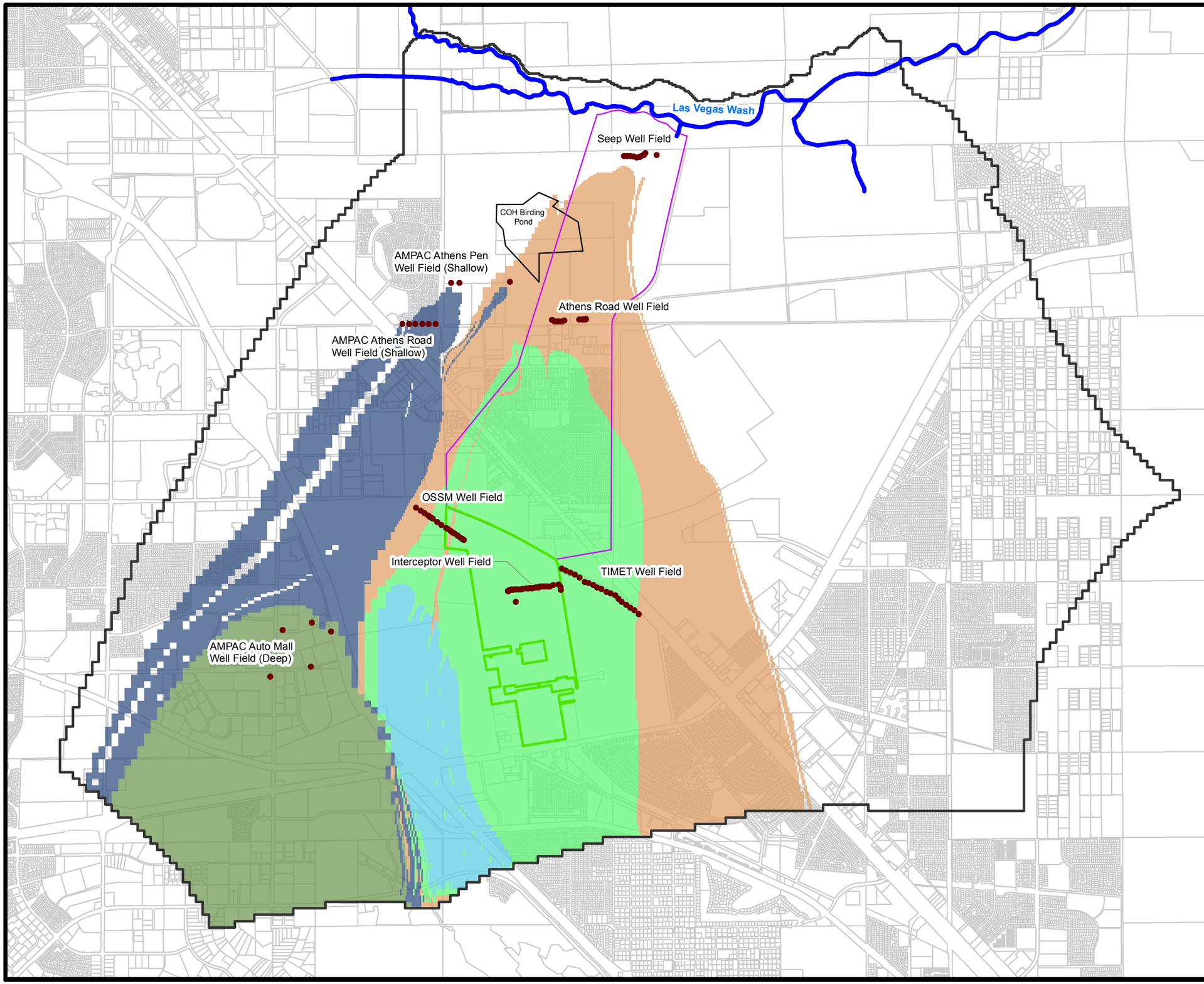

EXPLANATION

- Extraction Wells
- Las Vegas Wash
- Phase 3 Model Extent
- Site Boundary
- Downgradient Plume Area

Deep Capture Zones

- Interceptor Well Field
- Athens Road Well Field
- Seep Well Field
- OSSM Well Field
- TIMET Well Field
- AMPAC - Shallow Extraction Wells
- AMPAC - Deep Extraction Wells

AMPAC = American Pacific Corporation
OSSM = Olin/Stauffer/Syngenta/Montrose
TIMET = Titanium Metals Corporation
COH = City of Henderson

N
W E
S

0 0.5 1 Miles

RAMBOLL ENVIRON

DEEP WATER BEARING CAPTURE ZONE
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	31c

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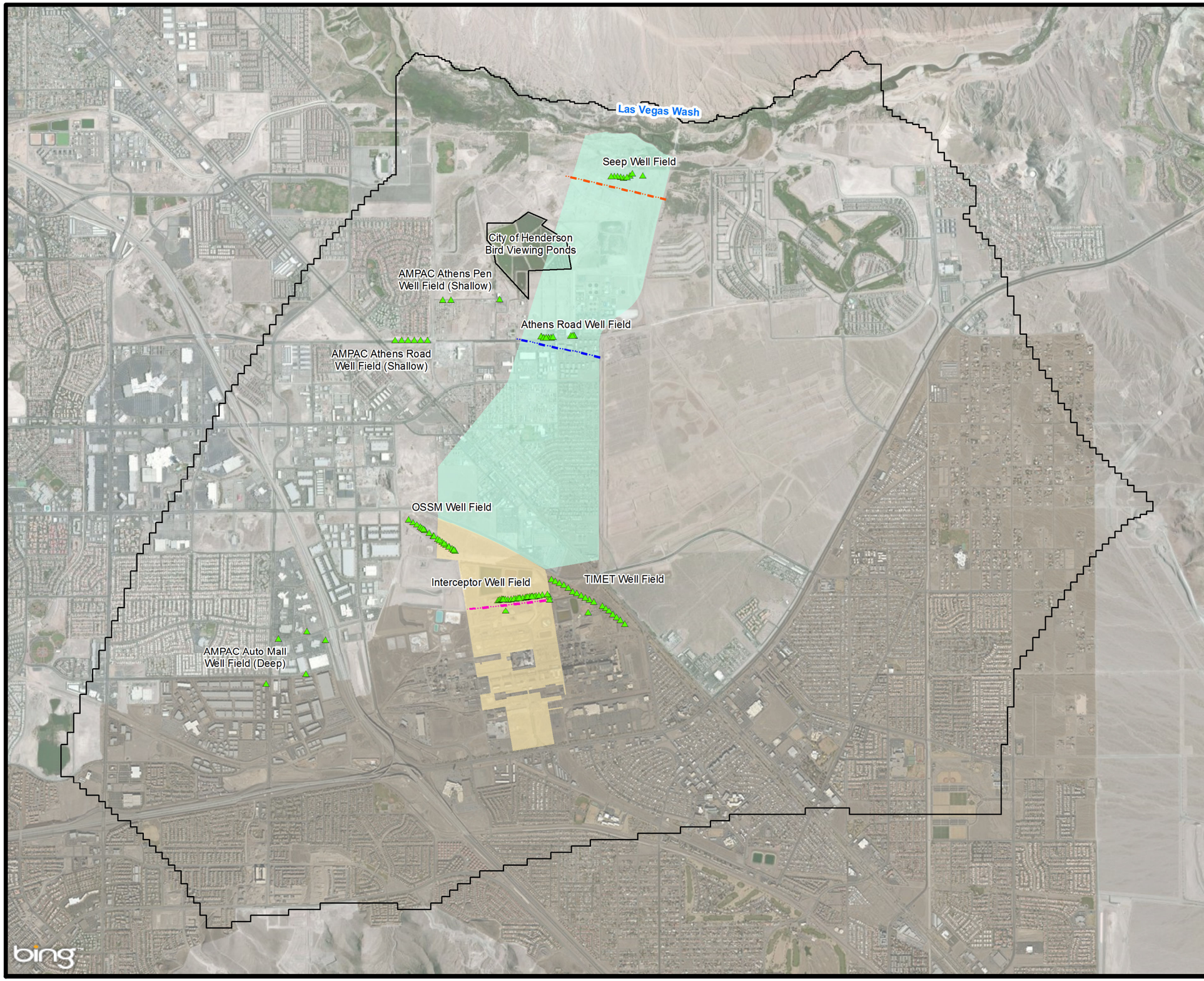

EXPLANATION

Well_Type

- Extraction Wells
- Model Boundary
- Transect - Athens Road Well Field
- Transect - Interceptor Well Field
- Transect - Seep Well Field
- Site Boundary
- Downgradient Plume

N
W E
S

0 0.5 1 Miles

RAMBOLL ENVIRON

Mass Flux Transect Locations
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/7/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	32a

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\Fig 32a-Transect_Location_2014.mxd

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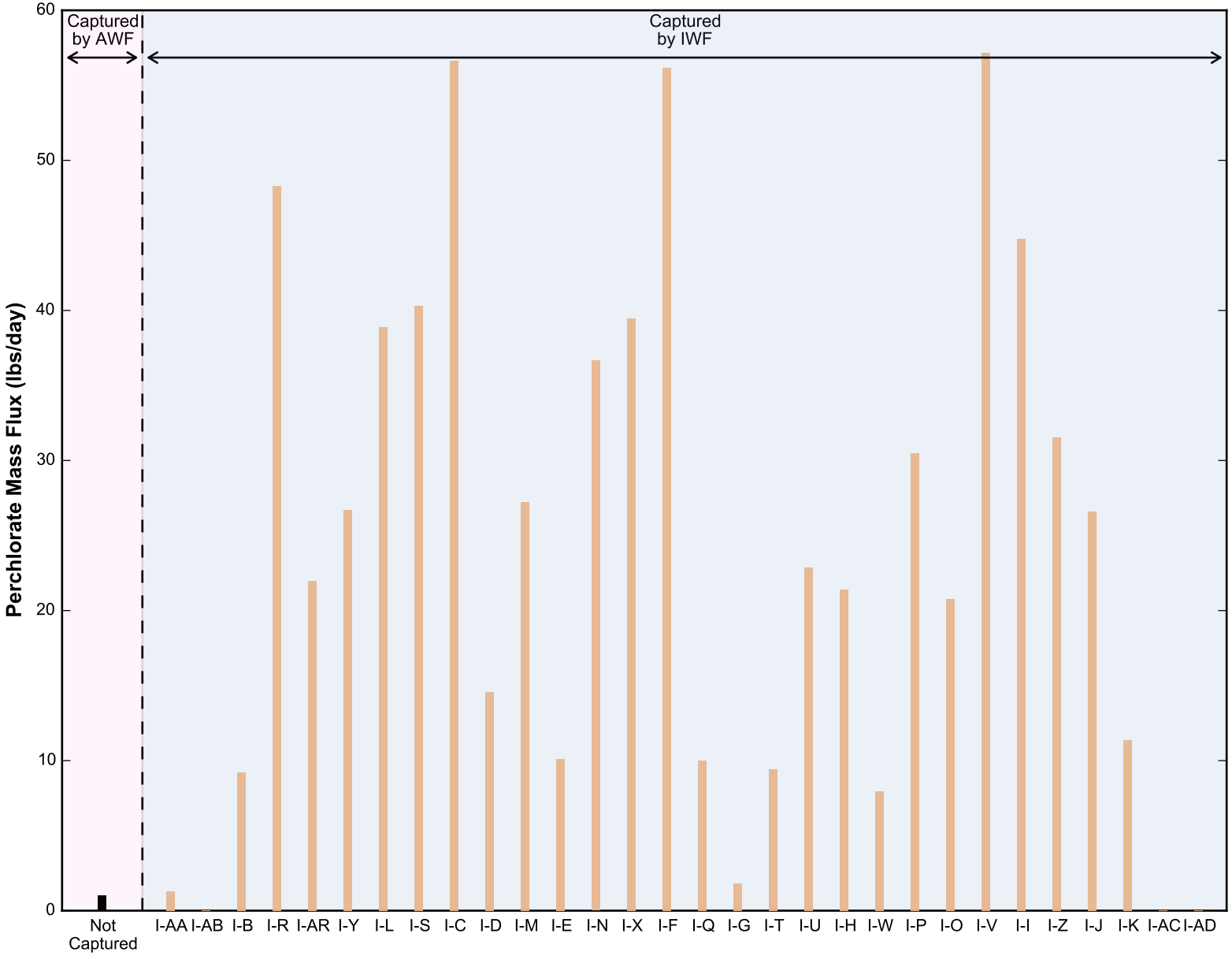


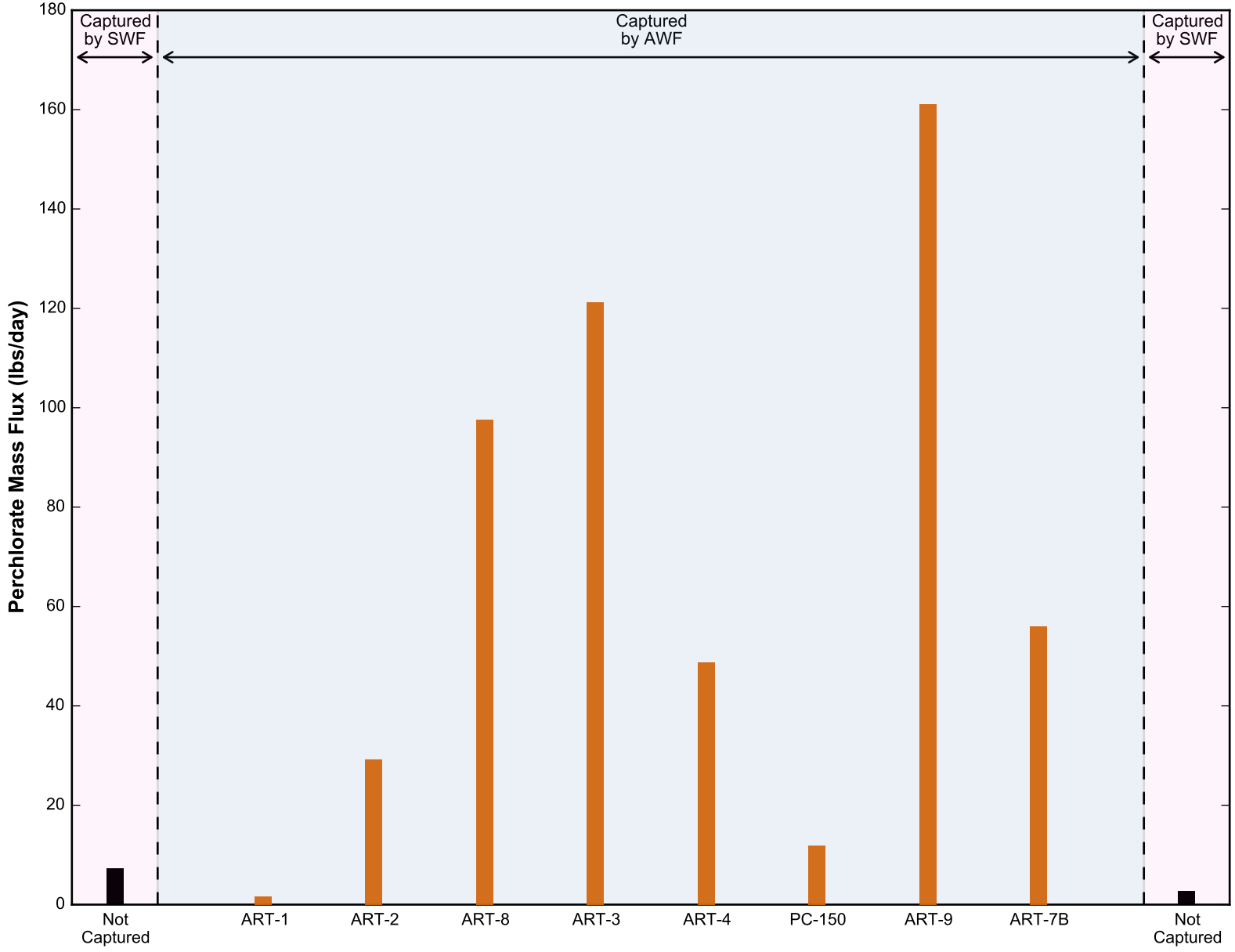
RAMBOLL ENVIRON

Perchlorate Mass Flux at Interceptor Well Field
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
32b

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



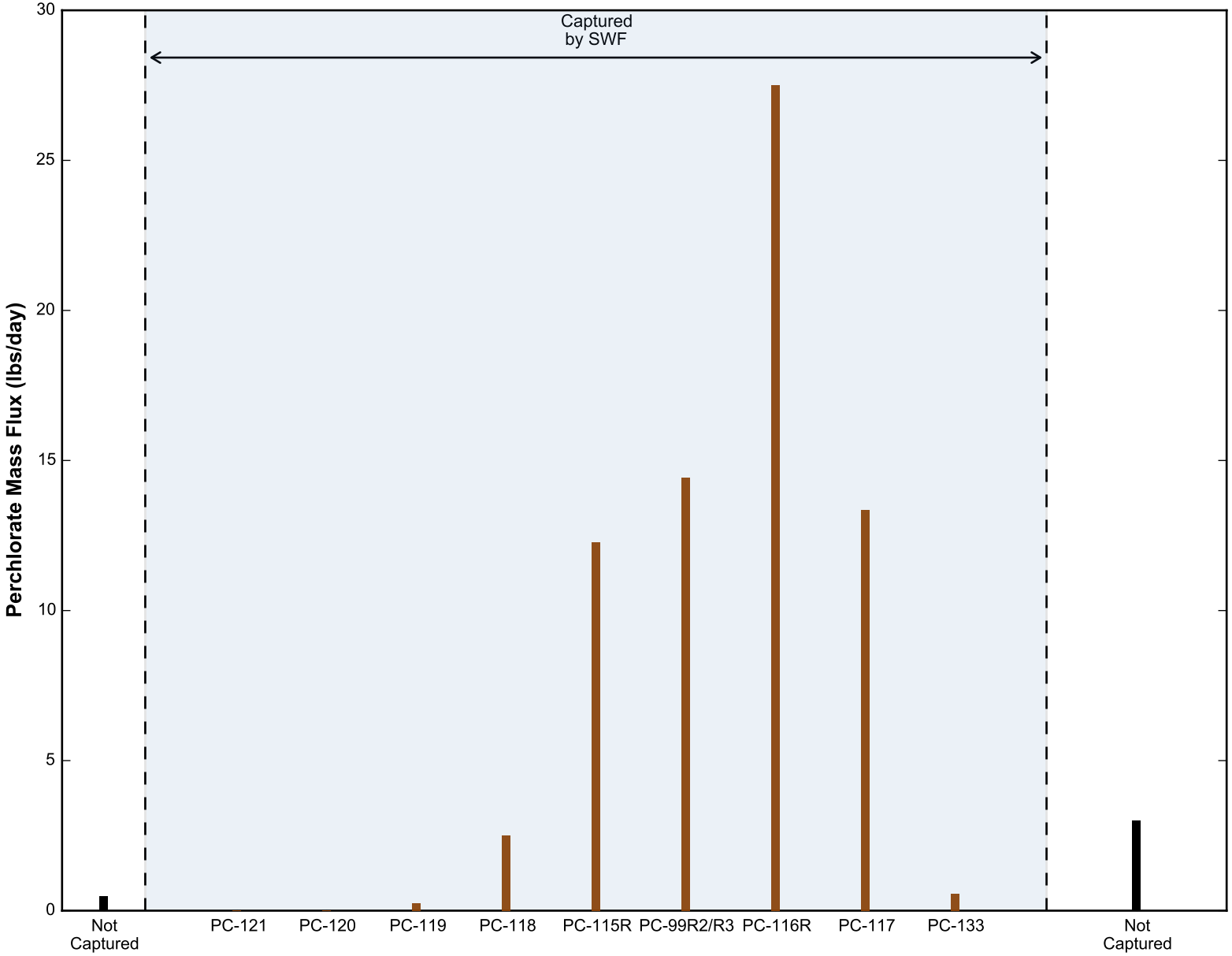
RAMBOLL ENVIRON

Perchlorate Mass Flux at Athens Road Well Field
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
32c

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py

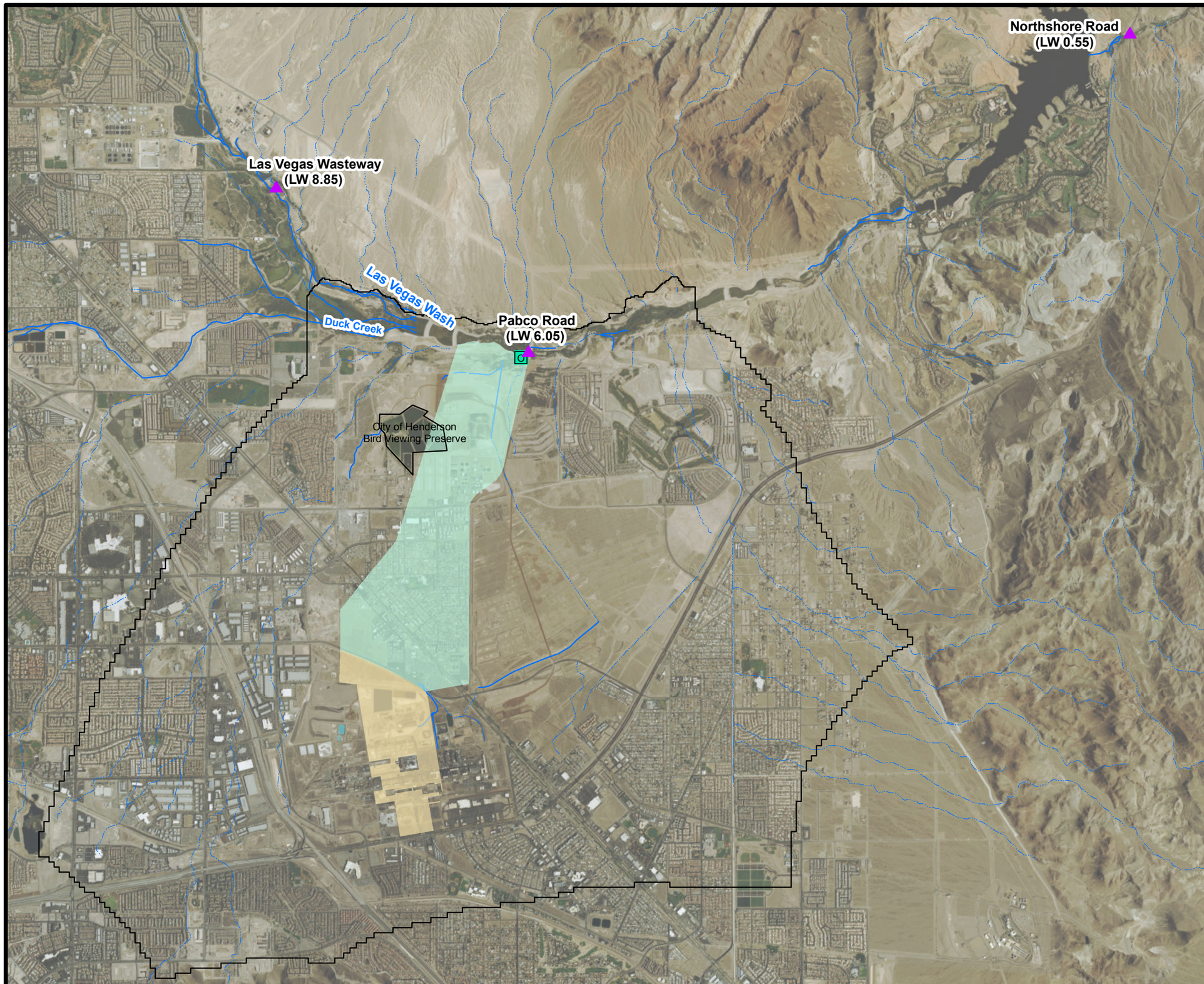


RAMBOLL ENVIRON

Perchlorate Mass Flux at Seep Well Field
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
32d

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:



Legend

- USGS Stream Gauge Station
- NERT/AMPAC/TIMET Outfall Location
- Model Boundary
- Site Boundary
- Downgradient Plume

N
W E
S

0 0.25 0.5 1 Miles

RAMBOLL ENVIRON

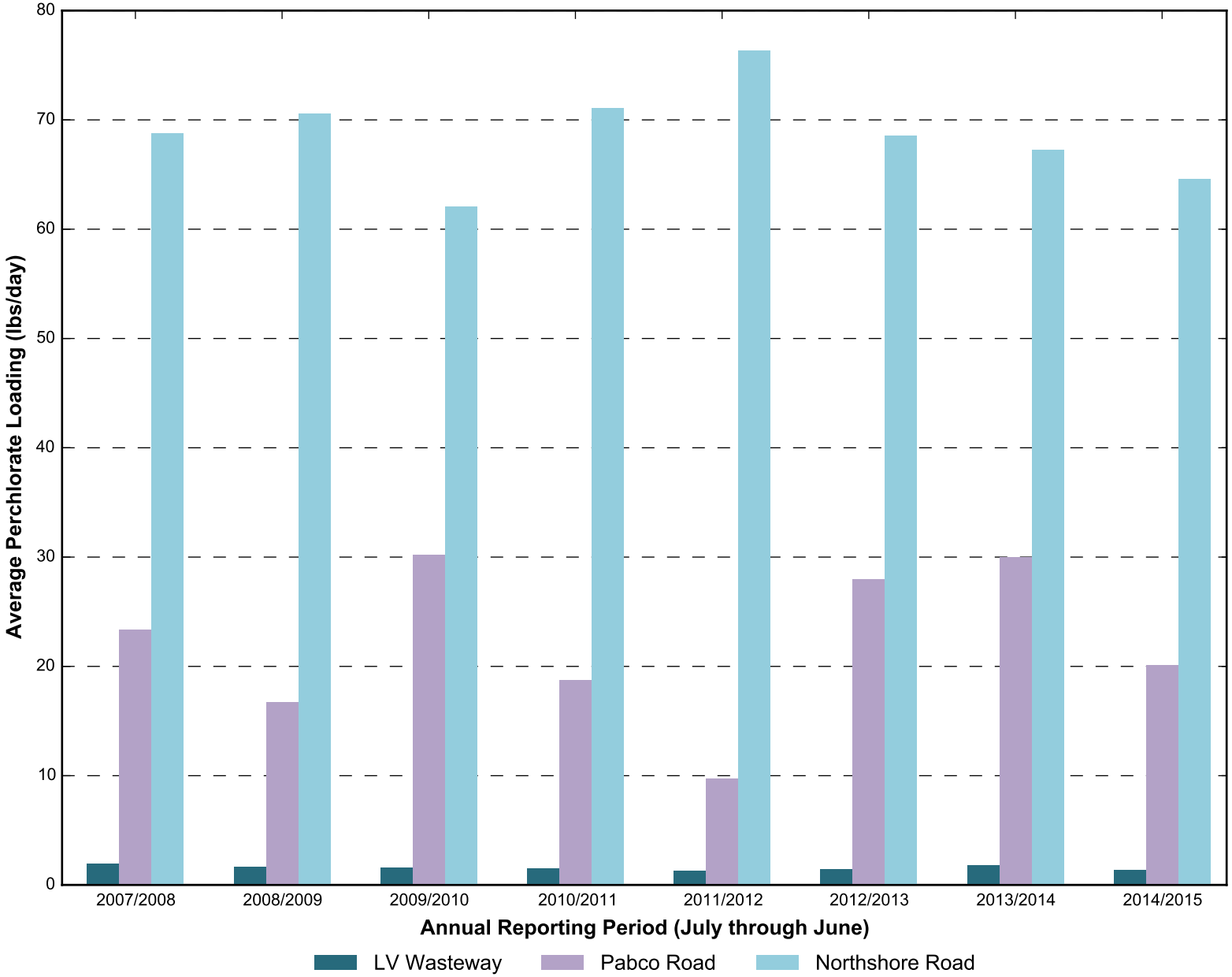
Sampling Locations in Las Vegas Wash

Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/7/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	33a

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\Fig 33a-Las Vegas wash Sampling Location.mxd

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



RAMBOLL ENVIRON

Annual Perchlorate Mass Loading in Las Vegas Wash
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
33b

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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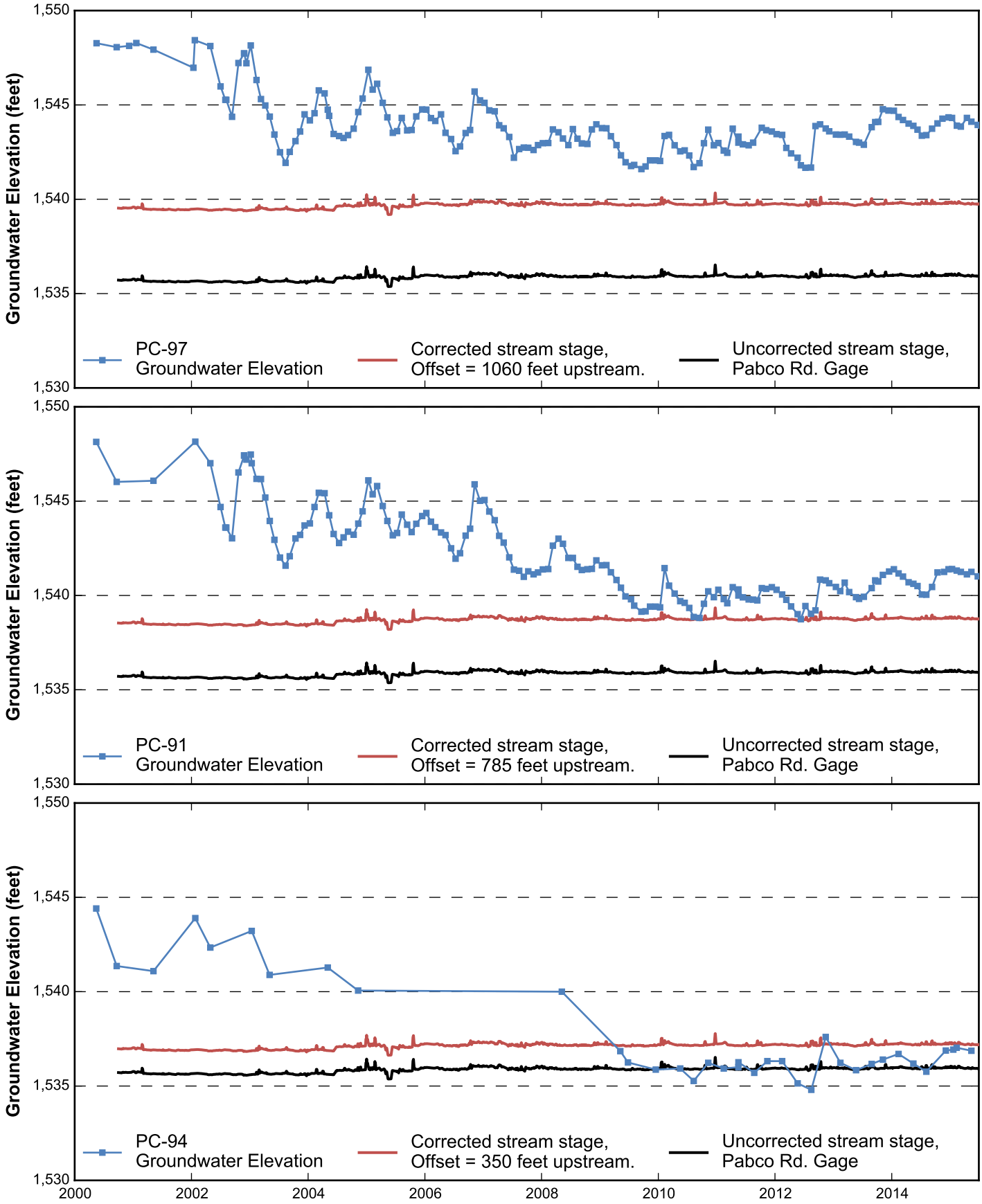

RAMBOLL ENVIRON

Groundwater Levels and Stream Stage Near Pabco Road
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
34

Drafter: ERG | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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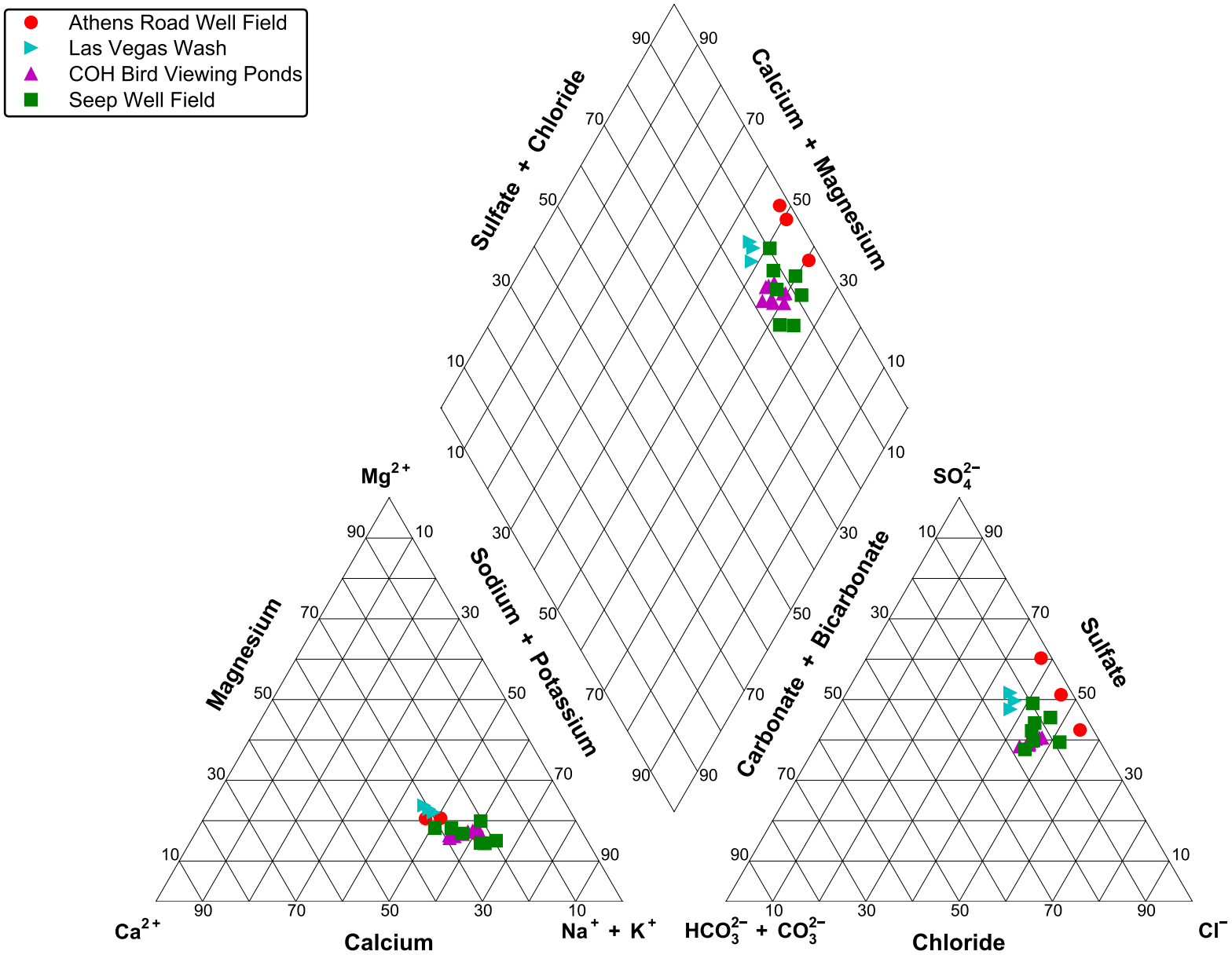


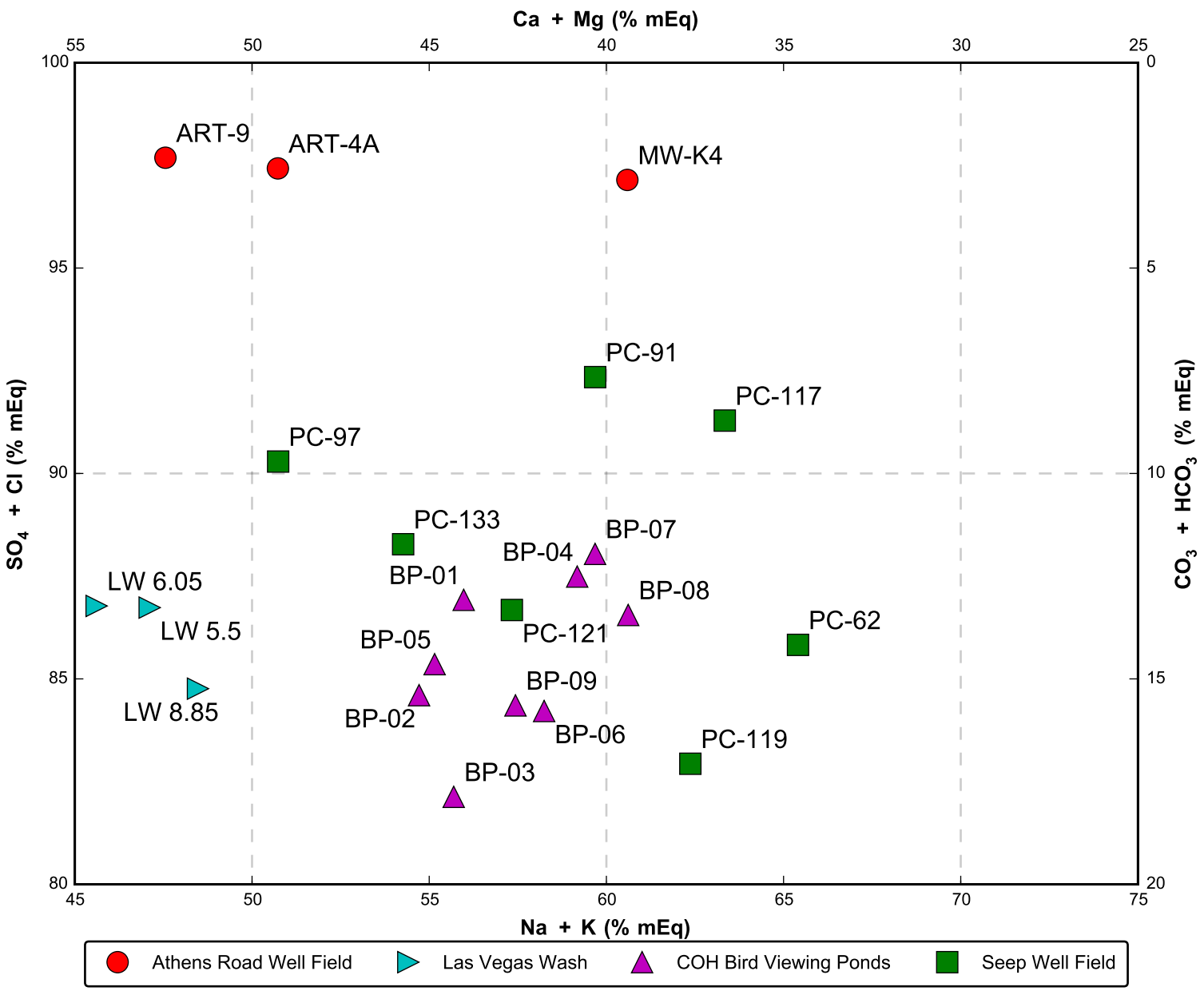
RAMBOLL ENVIRON

Piper Plot of Cation-Anion Data Collected Near the Seep Well Field
Nevada Environmental Response Trust (NERT) Site
Henderson, Nevada

Figure
35a

Drafter: JH	Date: 10/29/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\SWF White Paper\Figures\bvppiper.py



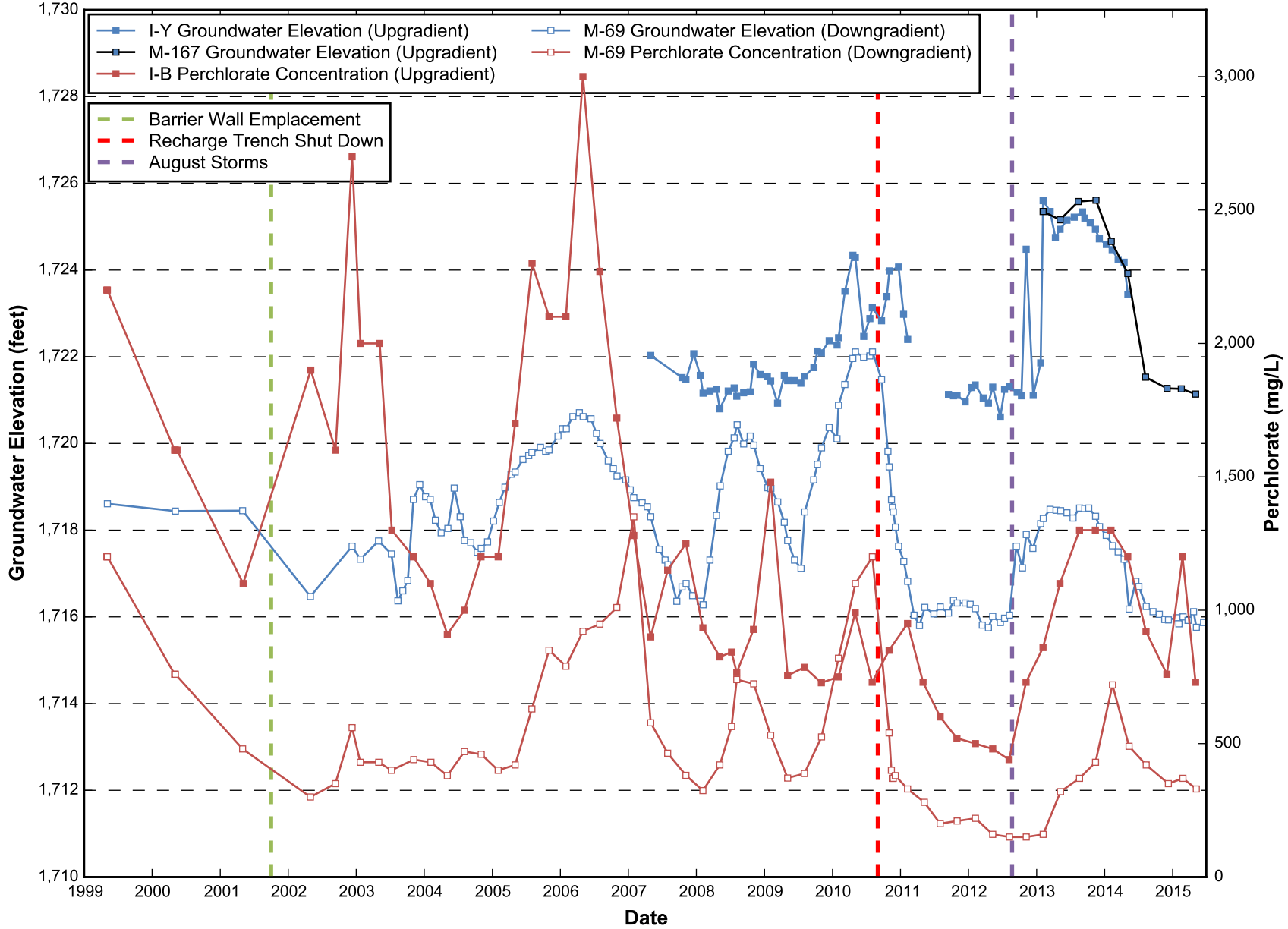
RAMBOLL ENVIRON

Piper Plot of Cation-Anion Data Collected Near the Seep Well Field
Nevada Environmental Response Trust (NERT) Site
Henderson, Nevada

Figure
35b

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



RAMBOLL ENVIRON

Perchlorate and Groundwater Elevation Across the Barrier Wall Near Well M-69
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
36a

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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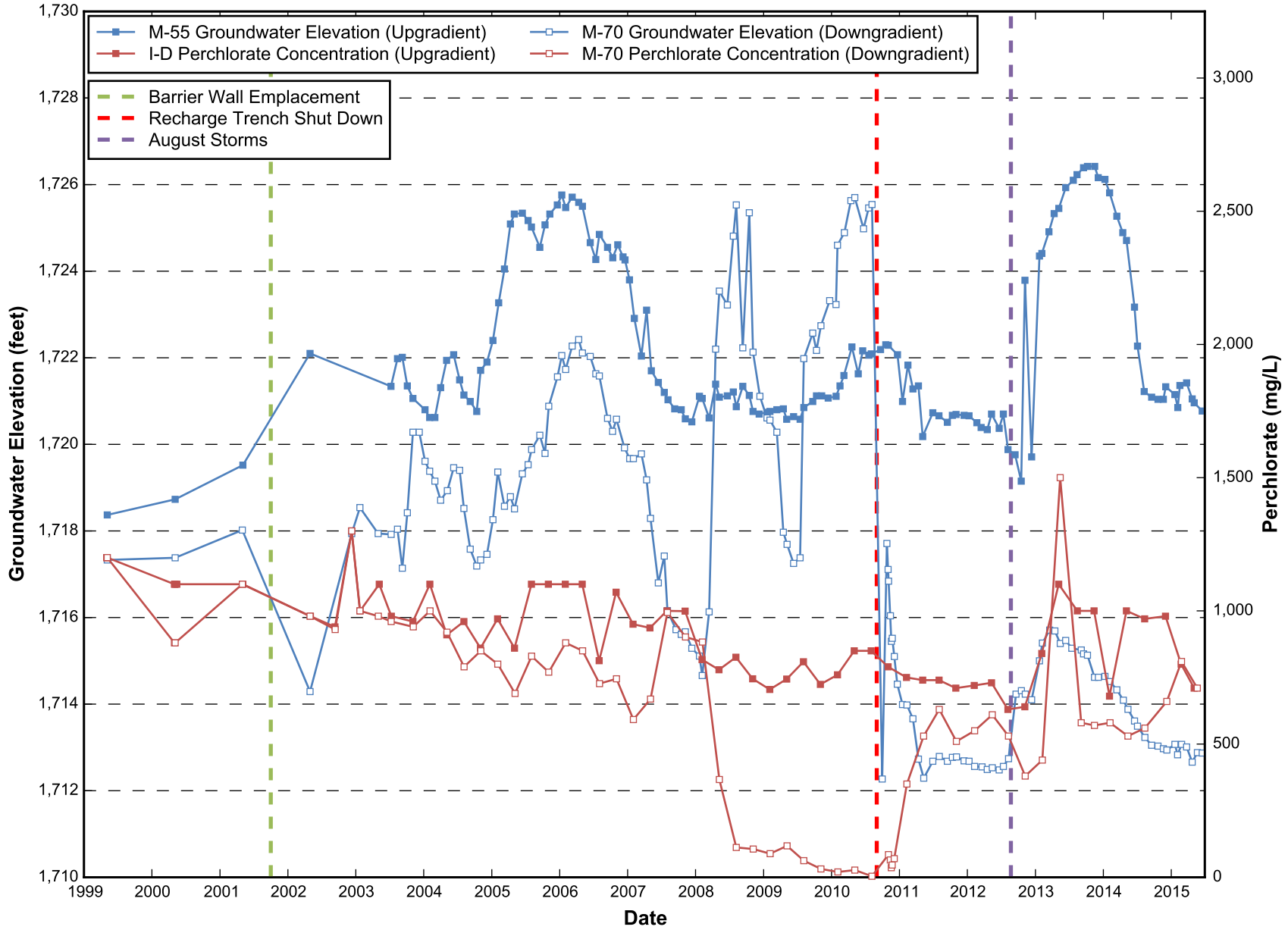


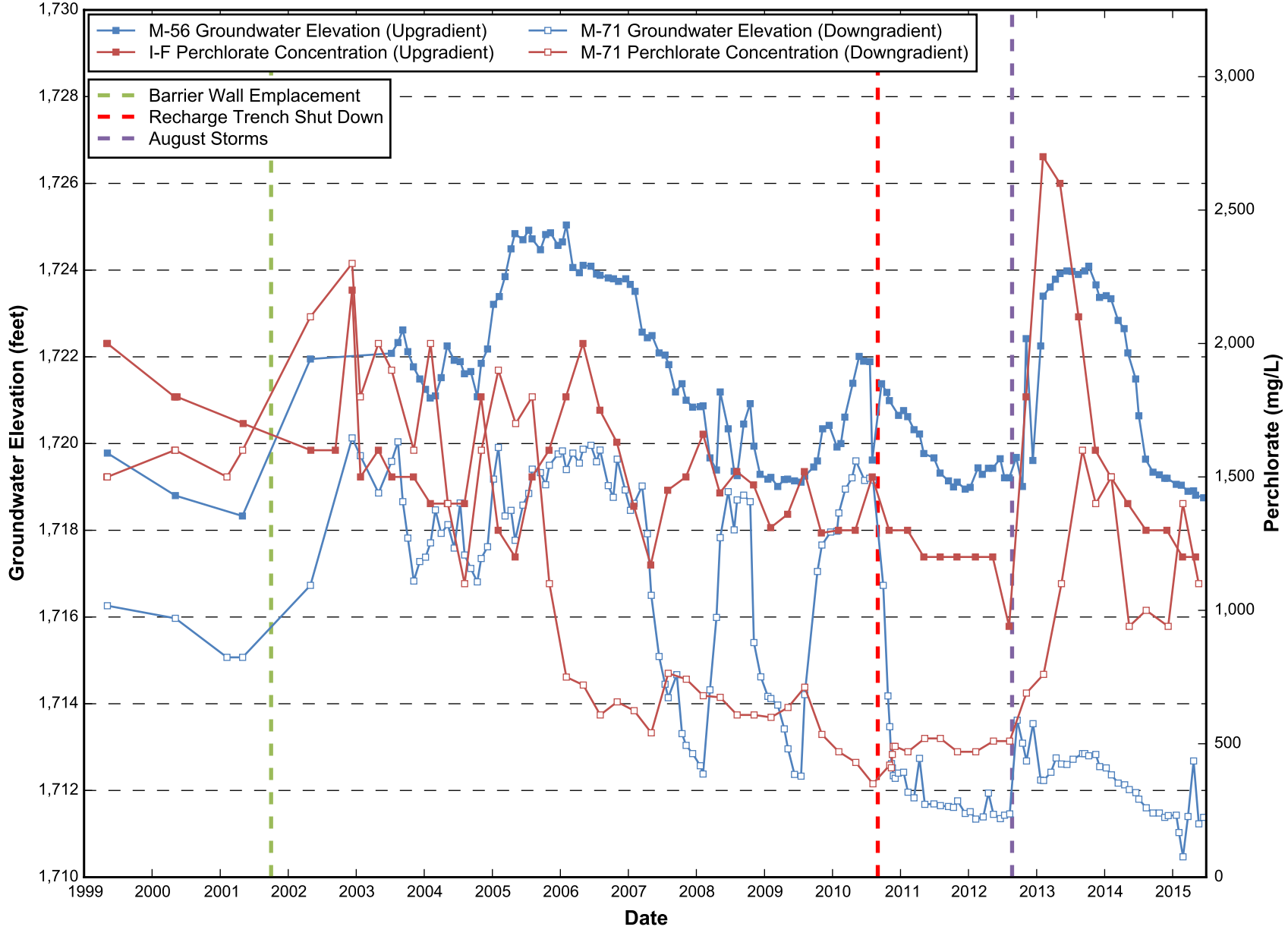
RAMBOLL ENVIRON

Perchlorate and Groundwater Elevation Across the Barrier Wall Near Well M-70
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
36b

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



RAMBOLL ENVIRON

Perchlorate and Groundwater Elevation Across the Barrier Wall Near Well M-71
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
36c

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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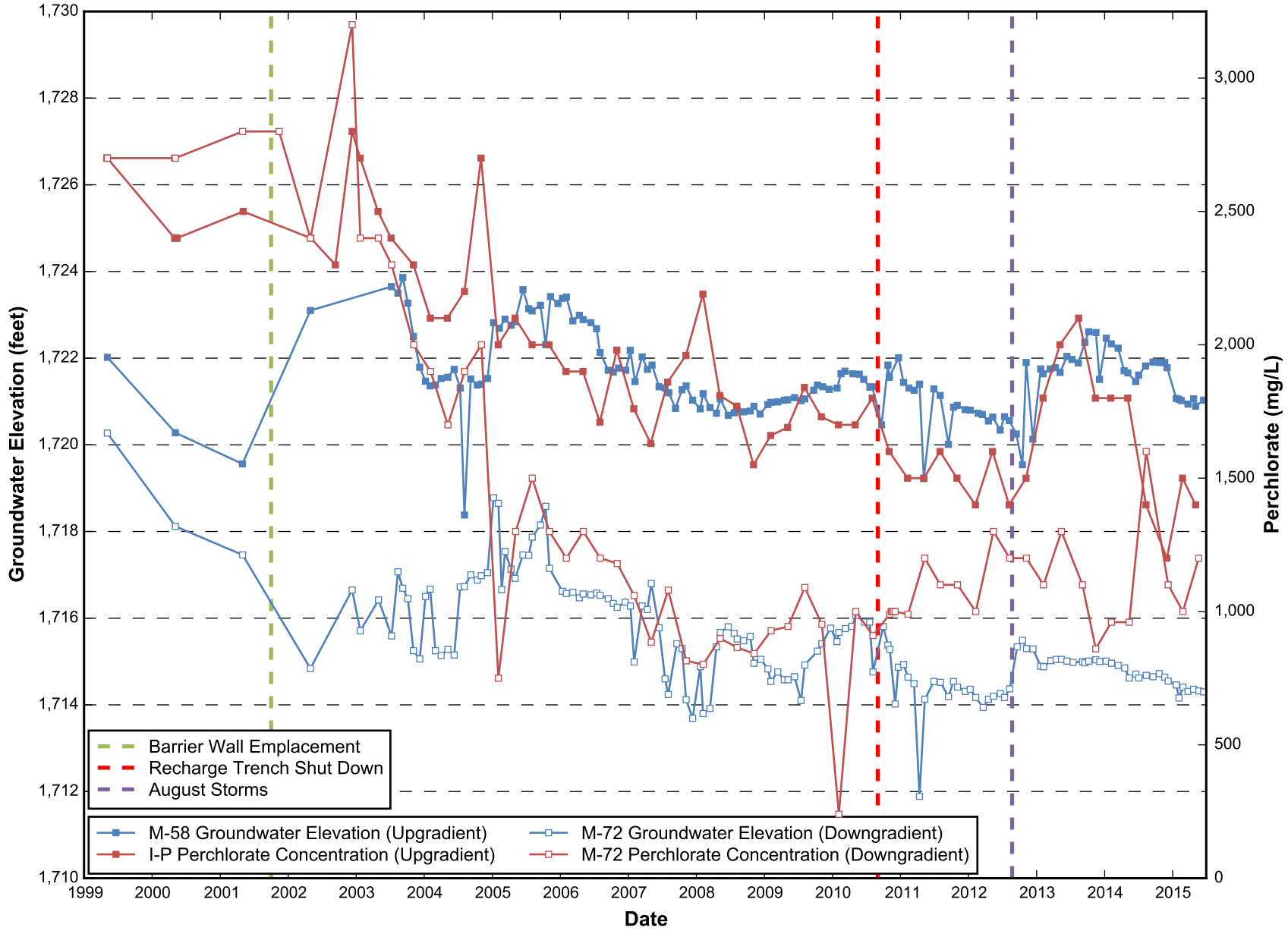

RAMBOLL ENVIRON

Perchlorate and Groundwater Elevation Across the Barrier Wall Near Well M-72
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
36d

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

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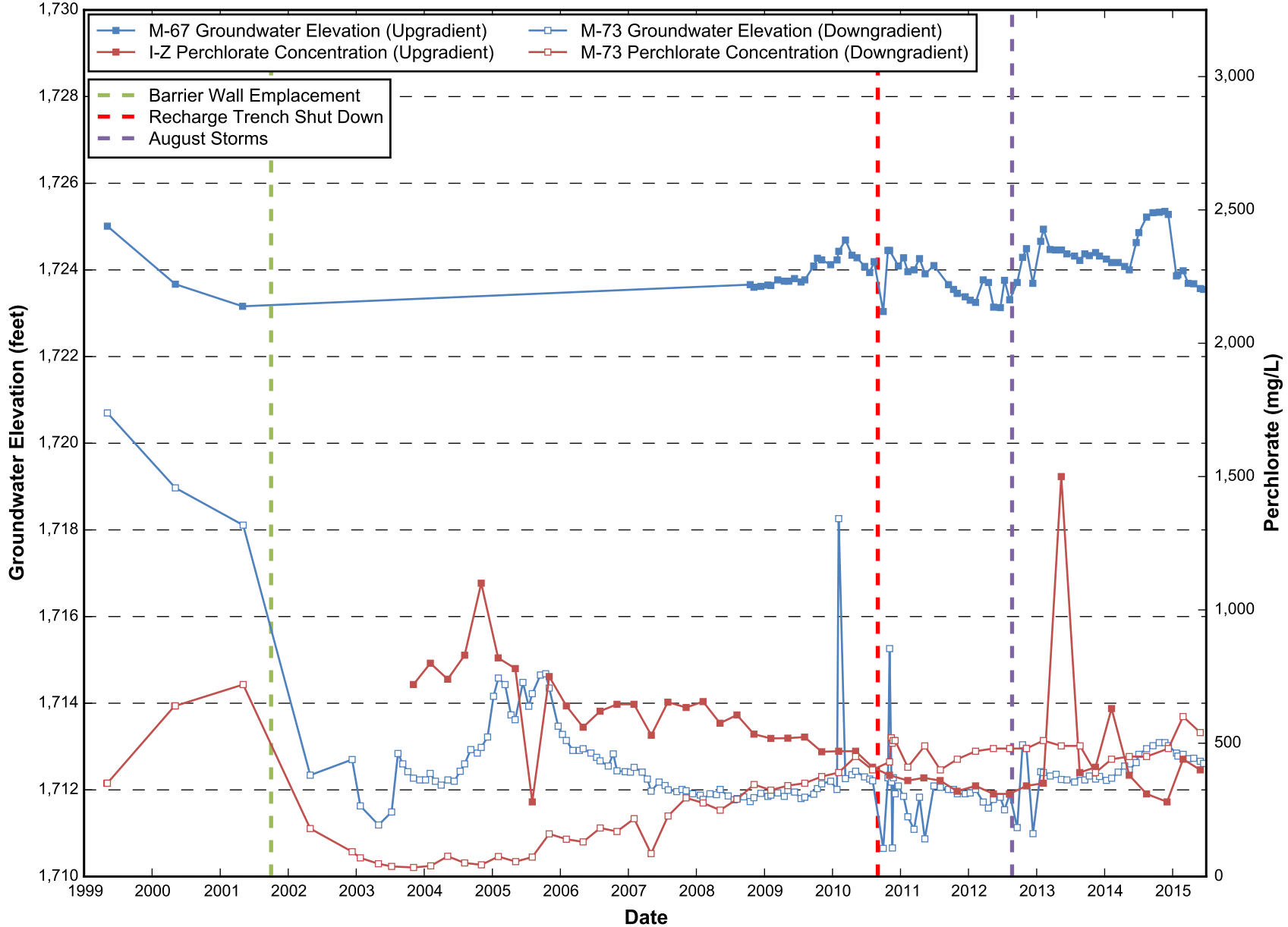


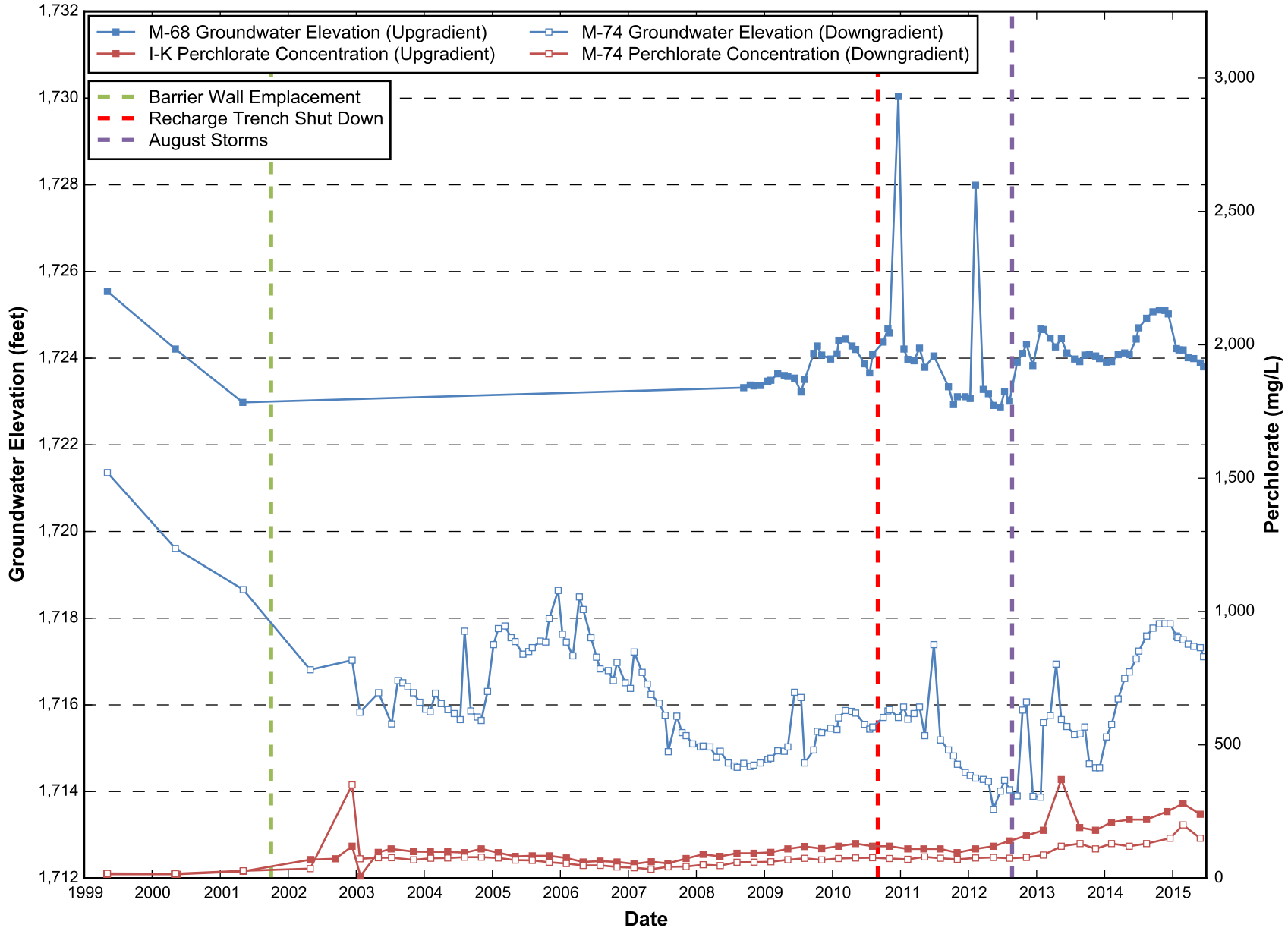
RAMBOLL ENVIRON

Perchlorate and Groundwater Elevation Across the Barrier Wall Near Well M-73
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
36e

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Figures\RunNERTFigs.py



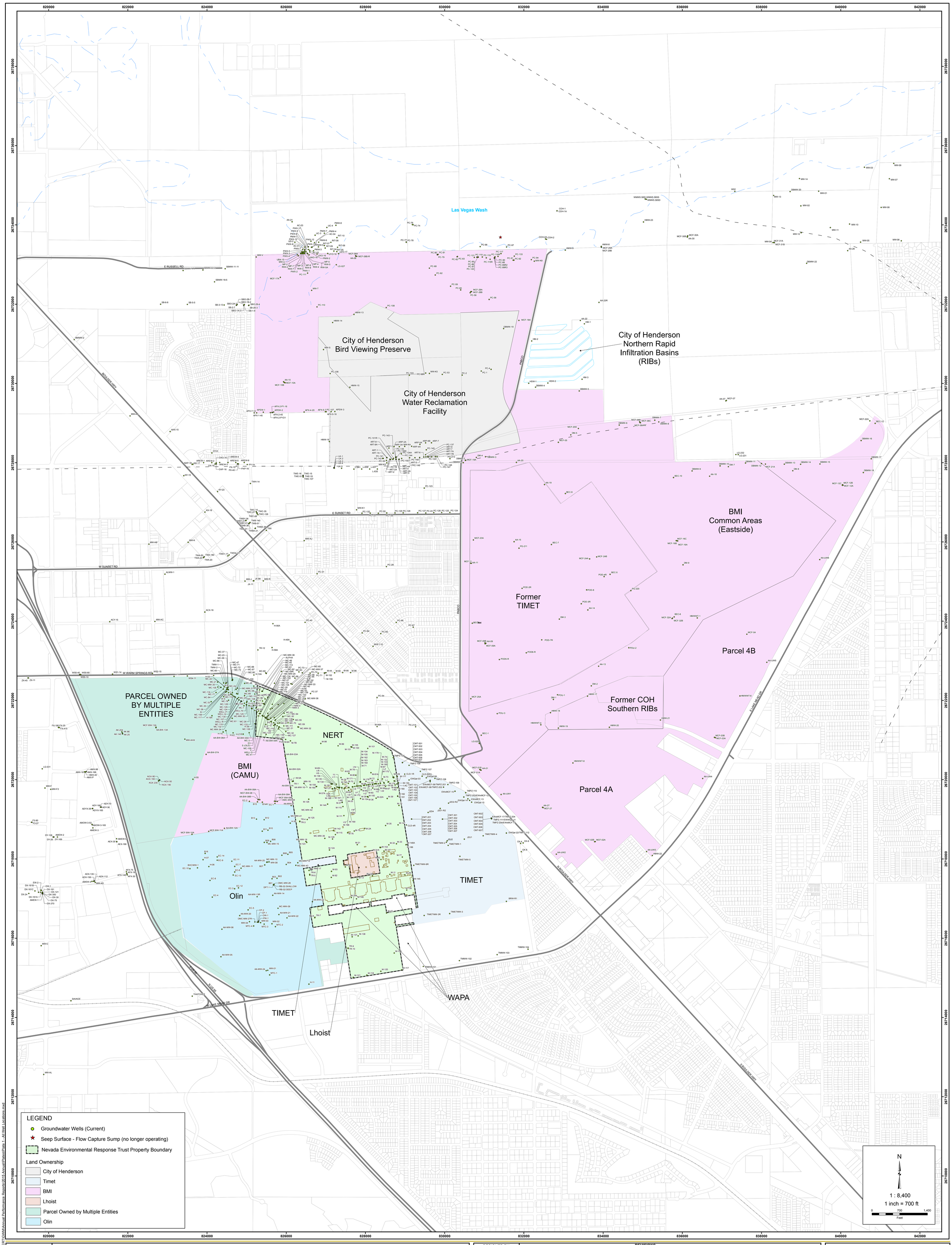
RAMBOLL ENVIRON

Perchlorate and Groundwater Elevation Across the Barrier Wall Near Well M-74
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
36f

Drafter: JH | Date: 10/29/15 | Contract Number: 21-37300A | Approved: | Revised:

PLATES



Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Plates\Plate 1 - All Well Locations.mxd

Plate
1

PROJECT: 21-37300A

ALL WELL LOCATION MAP

Annual Remedial Performance Report
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY: EJK	REVISIONS			
	NO.	DESCRIPTION:	DATE:	BY:
DRAWN BY: EA	0	GENERATE APPROVED MAP	10/30/2015	EA
CHECKED BY: KL/EG				
APPROVED BY: CJR/EJK				

RAMBOLL ENVIRON

Inset C
Inset B
Inset A
Former Recharge Trenches
Las Vegas Wash
Former AMPAC Re-injection System
AMPAC Athens Pen Extraction Wells
AMPAC Athens Road Extraction Wells
AMPAC Auto Mall Extraction Wells (Deeper Water Bearing Zone)
Former PEPCON Site
OSSM Well Field and Injection Trenches
TIMET Barrier Wall
TIMET Well Field
E SUNSET RD
W WARM SPRINGS RD
N US 95
N BOULDER HWY
W LAKE MEAD DR
PABCO RD

LEGEND

Wells Identified for Sampling (April - June 2015)

- Shallow Water Bearing Zone Well (used in contouring)
- Shallow Water Bearing Zone Extraction Well (pumping rate used in contouring)
- Deeper Water Bearing Zone Well (not used in contouring)
- Deeper Water Bearing Zone Extraction Well (not used in contouring)
- 1700 — Potentiometric Surface Contour (ft)
- 1,700 — Groundwater Elevation (ft) (M-121 - Potentiometric Surface in the Upper Muddy Creek Formation)
- NA — Not Measured during May-June 2015 as part of the Groundwater Monitoring Program
- City of Henderson Bird Viewing Preserve
- Nevada Environmental Response Trust Property Boundary
- Site Features (Buildings and Tanks)
- Muddy Creek Topographic High/Unsaturated Alluvium
- Approximate Location of Paleochannel Centerline

Notes:

Results shown may have been rounded for clarity. Some wells in the area of the OSSM Well Field have been removed for clarity. See Table A-1 and A-2 for all results reported to full precision.

Grid: State Plane, Nevada East, NAD83, Feet

N

1 : 12,000
1 inch = 1,000 ft

0 1,000 2,000
Feet

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Plates\2015Q2 - P02 - Pot Surf Map Sparse OSSM Well Field.mxd

Plate
2

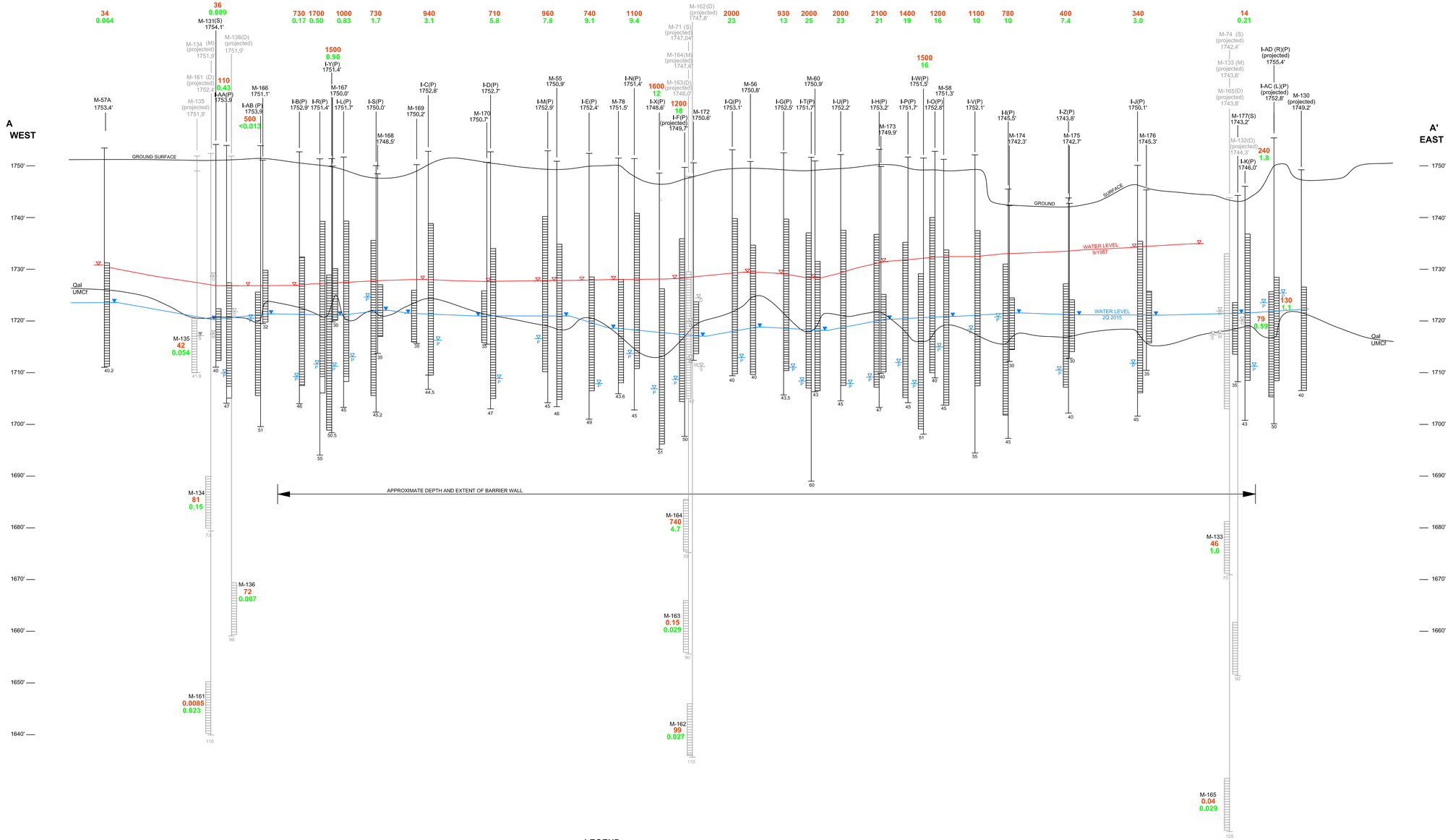
PROJECT: 21-37300A

POTENTIOMETRIC SURFACE MAP
SHALLOW WATER-BEARING ZONE
SECOND QUARTER 2015

Annual Performance Report
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY: EJK	REVISIONS			
DRAWN BY: AS/RS	NO.	DESCRIPTION:	DATE:	BY:
CHECKED BY: KL/EG	0	GENERATE APPROVED MAP	10/30/2015	KL/EG
APPROVED BY: JD				

RAMBOLL ENVIRON



LEGEND

1750.0' — TOP OF CASING ELEVATION (P) PUMPING

SCREENED INTERVAL
(S) SHALLOW
(M) MIDDLE
(D) DEEP
(R) RIGHT
(L) LEFT

BLANK CASING

ALLUVIUM-MUDDY CREEK FM CONTACT (FT BGS)
UMCf - UPPER MUDDY CREEK FORMATION
Qal - ALLUVIUM
TOTAL DEPTH (FT BGS) — 57

WELLS UPGRADIENT OF BARRIER WALL:

STATIC WATER LEVEL PRIOR TO INITIAL PUMPING

GROUNDWATER LEVELS MEASURED MAY 2015

PUMPING WELL, MAY 2015 (NOT USED FOR INTERPOLATING WATER LEVEL)

WELLS DOWNGRADIENT OF BARRIER WALL:

WATER LEVEL FROM DEEP WELL, MAY 2015 (NOT USED FOR INTERPOLATING WATER LEVEL)

WATER LEVEL FROM MIDDLE WELL, MAY 2015 (NOT USED FOR INTERPOLATING WATER LEVEL)

WATER LEVEL FROM SHALLOW WELL, MAY 2015 (NOT USED FOR INTERPOLATING WATER LEVEL)

1.9 — PERCHLORATE CONCENTRATION AS OF MAY 2015 (mg/L)

1.9 — TOTAL CHROMIUM CONCENTRATION AS OF MAY 2015 (mg/L)

VERTICAL SCALE IN FEET: 0', 5', 10'
HORIZONTAL SCALE IN FEET: 0', 40', 80'

NOTE:

The shallow, middle, and deep screened interval designations are used to distinguish well screens in this cross section and do not refer to NDEP's definition of the water bearing zones (WBZs).

ENVIRON
RAMBOLL

NO.	REVISIONS DESCRIPTION:	DATE:	BY:
0	GENERATE APPROVED CROSS-SECTION	9/18/15	RS

DESIGNED BY: ELK
DRAWN BY: RS
CHECKED BY: ERG
APPROVED BY: CJR

WEST-EAST HYDROGEOLOGIC CROSS SECTION A - A' INTERCEPTOR WELL FIELD, SECOND QUARTER 2015

Annual Performance Report
Nevada Environmental Response Trust (NERT) Site
Henderson, Nevada

Plate 3

PROJECT: 21-34800H

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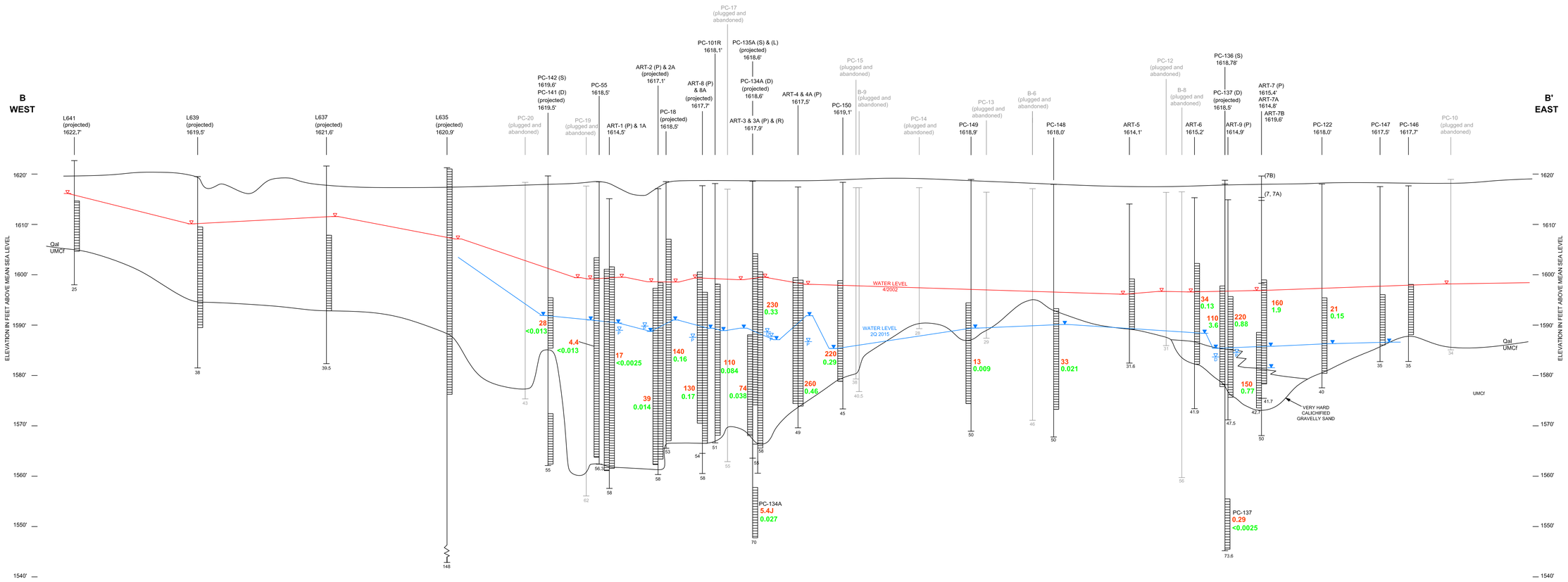

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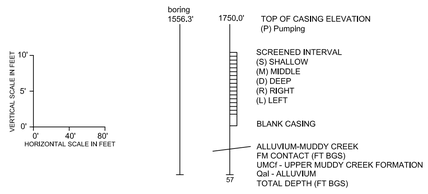

STATIC WATER LEVEL PRIOR TO INITIAL PUMPING

GROUNDWATER LEVELS MEASURED MAY 2015

PUMPING WELL, MAY 2015 (NOT USED FOR INTERPOLATING WATER LEVEL)

WATER LEVEL FROM DEEP WELL, MAY 2015 (NOT USED FOR INTERPOLATING WATER LEVEL)

1.9 PERCHLORATE CONCENTRATION AS OF MAY 2015 (mg/L)

1.9 TOTAL CHROMIUM CONCENTRATION AS OF MAY 2015 (mg/L)

J ESTIMATED CONCENTRATION

<0.0025 NOT DETECTED ABOVE THE SAMPLE QUANTITATION LIMIT (SQL)

NOTES:

The shallow, middle, and deep screened interval designations are used to distinguish well screens in this cross section and do not refer to NDEP's definition of the water bearing zones (WBZs).

LEGEND

ENVIRON

RAMBOLL

REVISIONS			
NO.	DESCRIPTION:	DATE:	BY:
0	GENERATE APPROVED CROSS-SECTION	9/18/15	RS

DESIGNED BY: EK/RS
DRAWN BY: RS
CHECKED BY: ERG
APPROVED BY: CJR

WEST-EAST HYDROGEOLOGIC CROSS SECTION B - B'
ATHENS ROAD WELL FIELD, SECOND QUARTER 2015

Annual Performance Report
Nevada Environmental Response Trust (NERT) Site
Henderson, Nevada

Plate 4

PROJECT: 21-34800H

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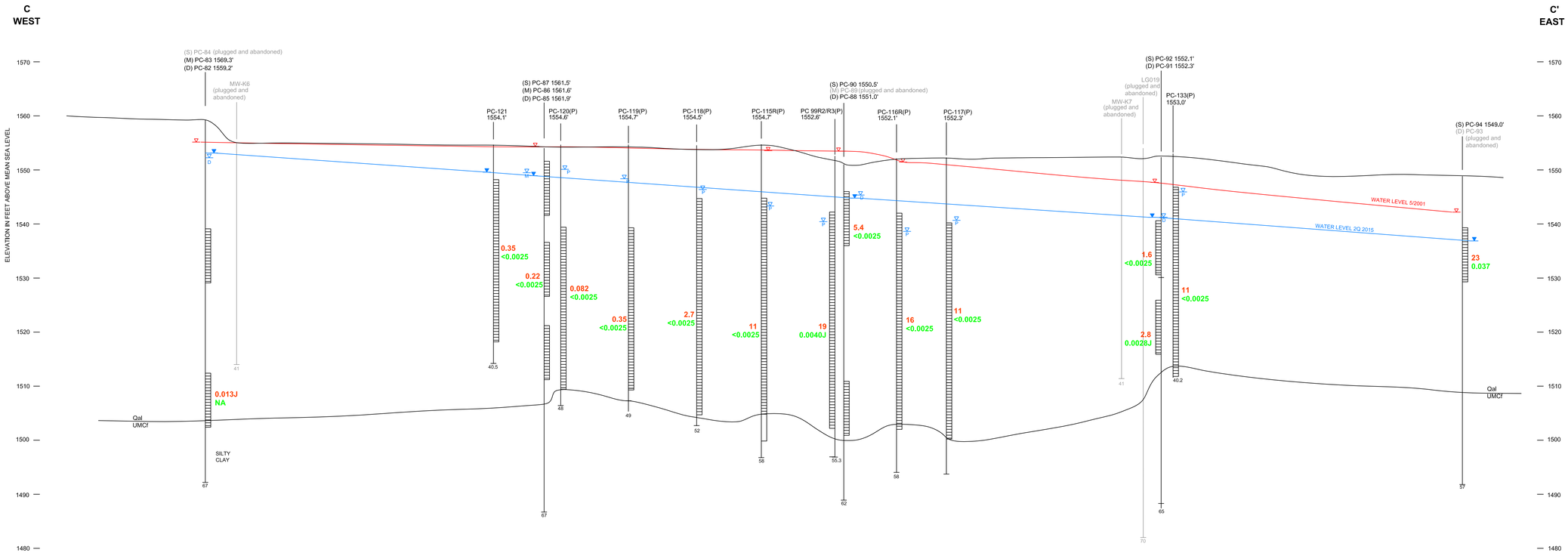

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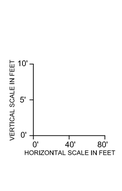

TOP OF CASING ELEVATION
(P) PUMPING

SCREENED INTERVAL
(D) DEEP
(M) MIDDLE
(S) SHALLOW

BLANK CASING

ALLUVIUM-MUDDY CREEK
FM CONTACT (FT BGS)
UMCf - UPPER MUDDY CREEK FORMATION
Qal - ALLUVIUM
TOTAL DEPTH (FT BGS)

STATIC WATER LEVEL PRIOR TO INITIAL PUMPING

GROUNDWATER LEVELS MEASURED MAY 2015

PUMPING WELL, MAY 2015 (NOT USED FOR INTERPOLATING WATER LEVEL)

WATER LEVEL FROM DEEP WELL, MAY 2015 (NOT USED FOR INTERPOLATING WATER LEVEL)

WATER LEVEL FROM MIDDLE WELL, MAY 2015 (NOT USED FOR INTERPOLATING WATER LEVEL)

1.9 PERCHLORATE CONCENTRATION AS OF MAY 2015 (mg/L)

1.9 TOTAL CHROMIUM CONCENTRATION AS OF MAY 2015 (mg/L)

<0.0025 NOT DETECTED ABOVE THE SAMPLE QUANTITATION LIMIT (SQL)

J ESTIMATED CONCENTRATION

NOTES:

The shallow, middle, and deep screened interval designations are used to distinguish well screens in this cross section and do not refer to NDEP's definition of the water bearing zones (WBZs).

ENVIRON
RAMBOLL

REVISIONS			
NO.	DESCRIPTION:	DATE:	BY:
0	GENERATE APPROVED CROSS-SECTION	9/18/15	RS

DESIGNED BY: ELK
DRAWN BY: RS
CHECKED BY: ELK
APPROVED BY: CJR

WEST-EAST HYDROGEOLOGIC CROSS SECTION C - C'
SEEP WELL FIELD, SECOND QUARTER 2015
Annual Performance Report
Nevada Environmental Response Trust (NERT) Site
Henderson, Nevada

Plate
5

PROJECT: 21-34800H

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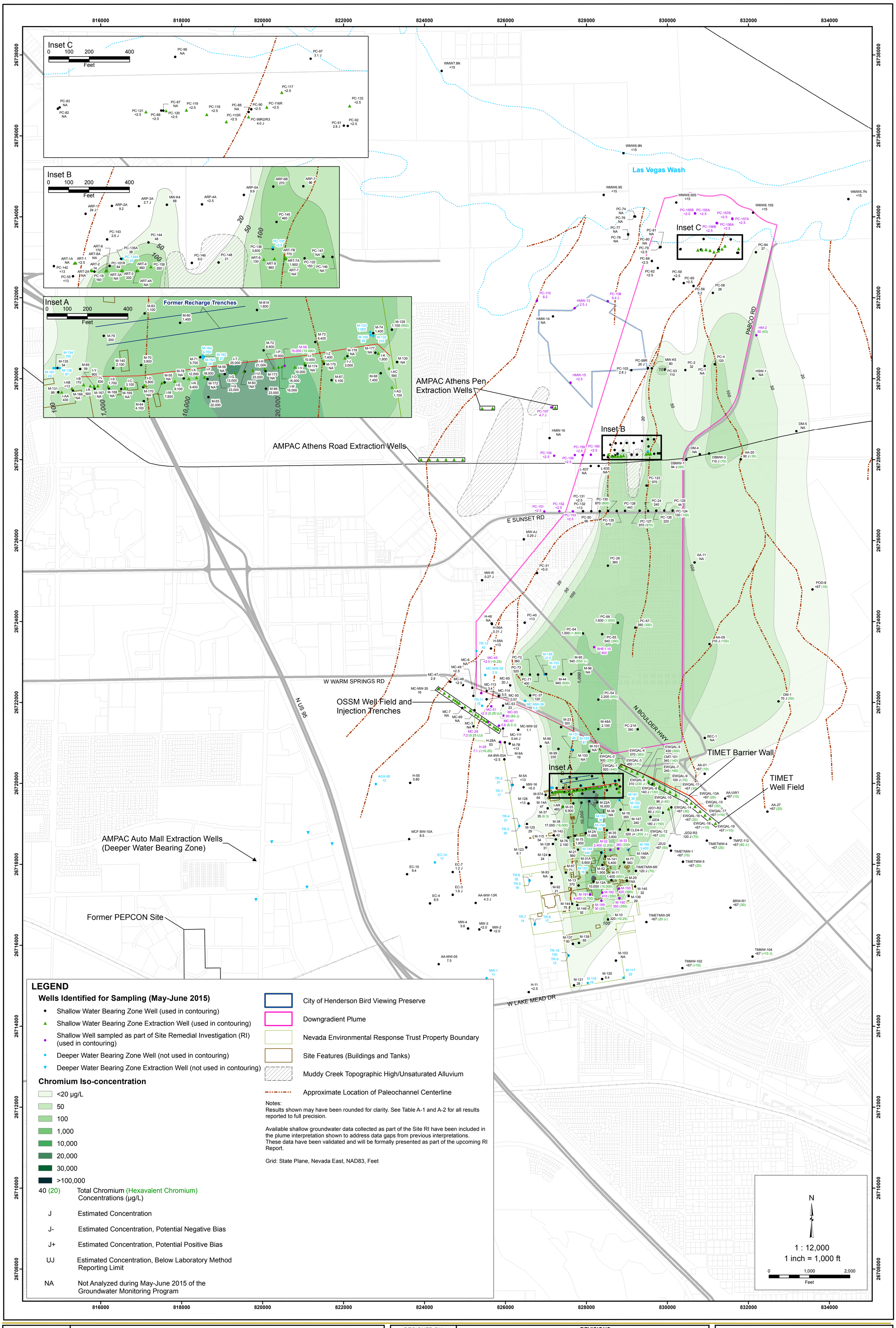

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Plate 6

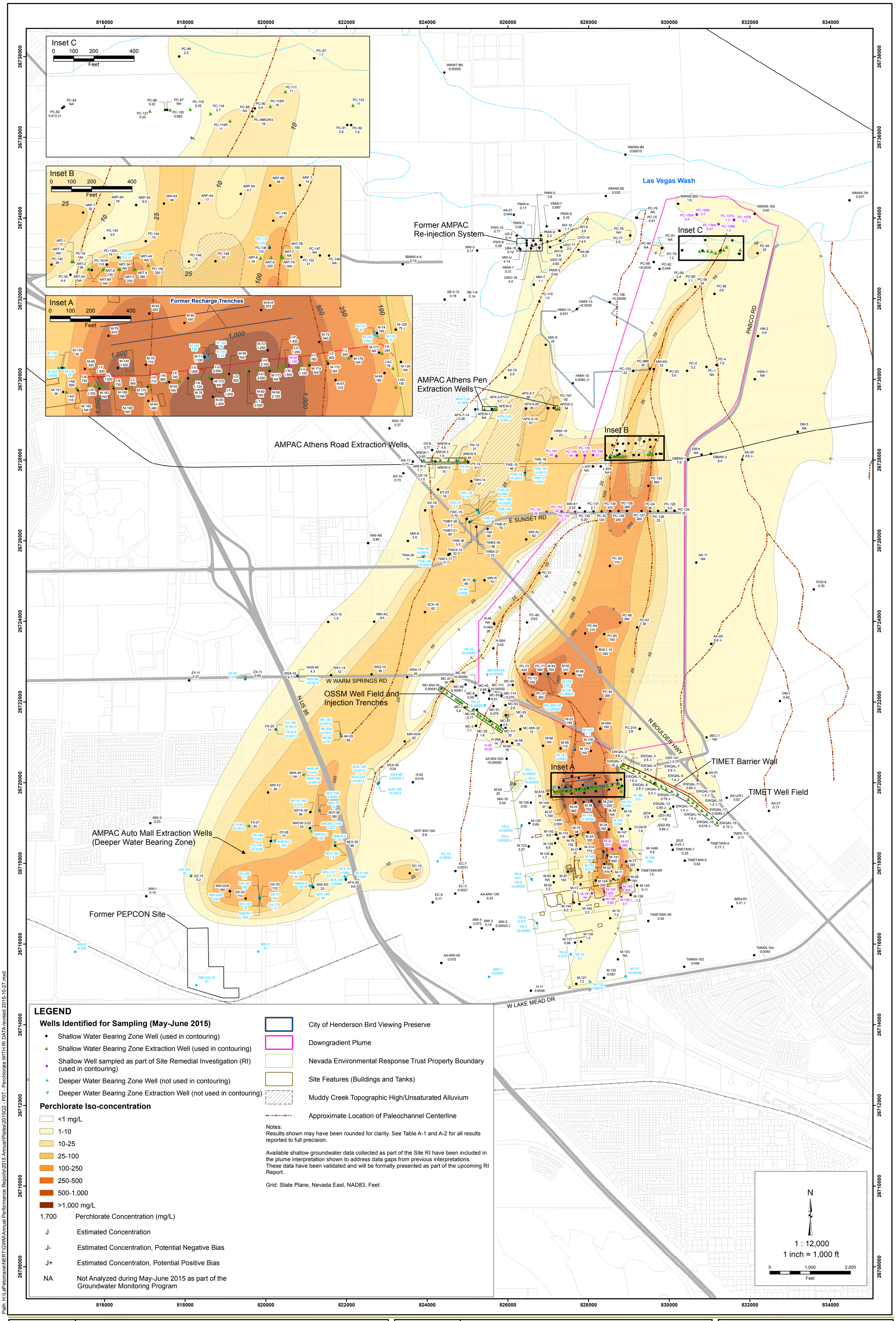
PROJECT: 21-37300A

GROUNDWATER TOTAL CHROMIUM MAP
SHALLOW WATER-BEARING ZONE
SECOND QUARTER 2015

Annual Performance Report
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY: EJK	REVISIONS			
	NO.	DESCRIPTION:	DATE:	BY:
DRAWN BY: JD/RS	0	GENERATE APPROVED MAP	10/30/2015	KL/EG
CHECKED BY: KL/EG				
APPROVED BY: JD				

RAMBOLL ENVIRON



Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Plates\2015Q2 - P07 - Perchlorate WITH RI DATA revised 2015-10-27.mxd

Plate 7

PROJECT: 21-37300A

GROUNDWATER PERCHLORATE MAP
SHALLOW WATER-BEARING ZONE
SECOND QUARTER 2015

Annual Performance Report
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY: EJK	REVISIONS			
DRAWN BY: JD/RS	NO.	DESCRIPTION:	DATE:	BY:
CHECKED BY: KL/EG	0	GENERATE APPROVED MAP	10/30/2015	KL/EG
APPROVED BY: JD				

RAMBOLL ENVIRON

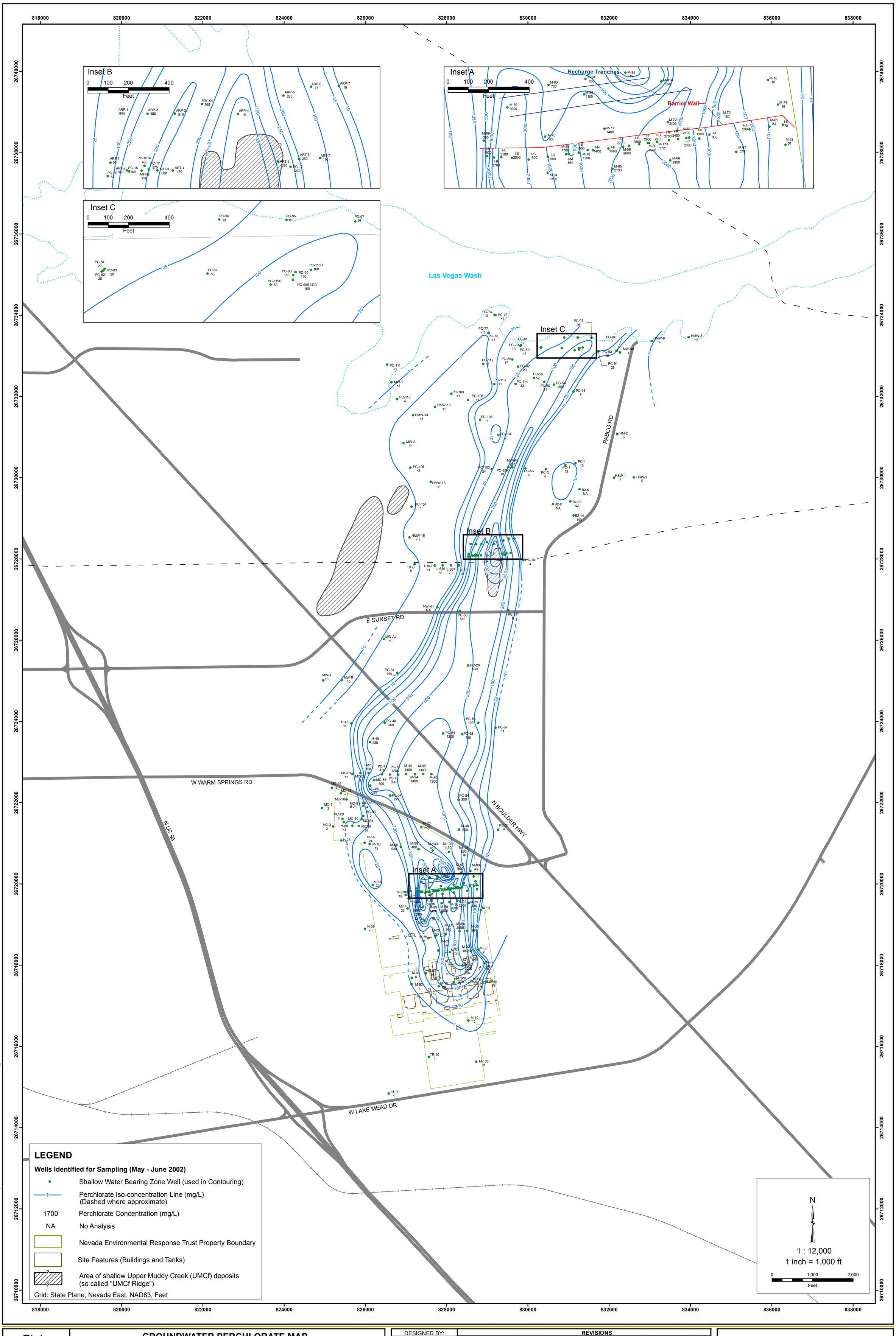


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Plate
7a

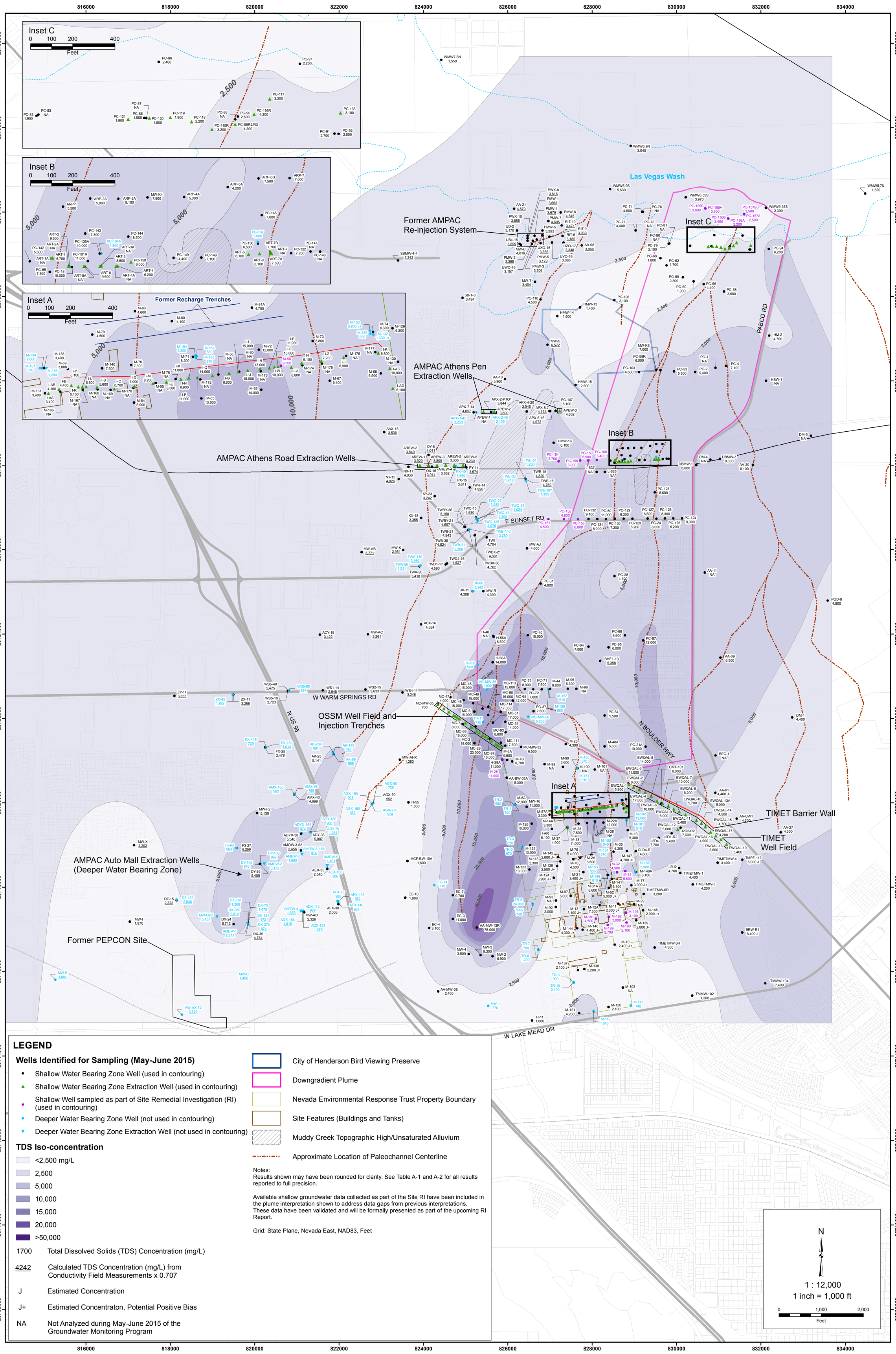
PROJECT: 21-37300A

GROUNDWATER PERCHLORATE MAP
SHALLOW WATER-BEARING ZONE
SECOND QUARTER 2002

Annual Performance Report
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY: EJK	REVISIONS			
DRAWN BY: EJK/RS	NO.	DESCRIPTION:	DATE:	BY:
CHECKED BY: KL/EG	0	GENERATE APPROVED MAP	10/30/2015	AS/RS
APPROVED BY: CJR/EJK				

RAMBOLL ENVIRON



LEGEND

Wells Identified for Sampling (May-June 2015)

- Shallow Water Bearing Zone Well (used in contouring)
- Shallow Water Bearing Zone Extraction Well (used in contouring)
- Shallow Well sampled as part of Site Remedial Investigation (RI) (used in contouring)
- Deeper Water Bearing Zone Well (not used in contouring)
- Deeper Water Bearing Zone Extraction Well (not used in contouring)

TDS Iso-concentration

- <2,500 mg/L
- 2,500
- 5,000
- 10,000
- 15,000
- 20,000
- >50,000

1700 Total Dissolved Solids (TDS) Concentration (mg/L)

4242 Calculated TDS Concentration (mg/L) from Conductivity Field Measurements x 0.707

J Estimated Concentration

J+ Estimated Concentraton, Potential Positive Bias

NA Not Analyzed during May-June 2015 of the Groundwater Monitoring Program

- City of Henderson Bird Viewing Preserve
- Downgradient Plume
- Nevada Environmental Response Trust Property Boundary
- Site Features (Buildings and Tanks)
- Muddy Creek Topographic High/Unsaturated Alluvium
- Approximate Location of Paleochannel Centerline

Notes:
Results shown may have been rounded for clarity. See Table A-1 and A-2 for all results reported to full precision.

Available shallow groundwater data collected as part of the Site RI have been included in the plume interpretation shown to address data gaps from previous interpretations. These data have been validated and will be formally presented as part of the upcoming RI Report.

Grid: State Plane, Nevada East, NAD83, Feet

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Plates\2015Q2 - P08 - TDS.mxd

Plate 8

PROJECT: 21-37300A

TOTAL DISSOLVED SOLIDS ISO-CONCENTRATION MAP
SHALLOW WATER-BEARING ZONE
SECOND QUARTER 2015

Annual Performance Report
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY: EJK
DRAWN BY: JD/RS
CHECKED BY: KL/EG
APPROVED BY: JD

REVISIONS

NO.	DESCRIPTION:	DATE:	BY:
0	GENERATE APPROVED MAP	10/30/2015	KL/EG

RAMBOLL ENVIRON

APPENDIX A
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
AA-01	05/08/14	1709.69					1.6	4,400
	06/02/15	1708.05					1.8	4,400 J
AA-11	05/06/14	1629.28						
	01/15/15	1628.70						
	06/02/15	Dry						
ARP-1	04/17/14	1589.01					28	5,400
	05/21/14	1588.78		<0.0020			28	5,400
	06/12/14	1588.71					30	5,400
	07/08/14	1588.69					32	5,500
	08/08/14	1589.17		0.0048 J			30	5,700
	09/10/14	1589.46					31	5,700
	10/14/14	1589.61					30	5,700
	11/25/14	1589.70		<0.0025			38	5,800
	12/30/14	1589.76					33	5,100
	01/14/15	1589.60					32	5,500
	02/11/15	1589.40		<0.0025			33	5,500
	03/10/15	1589.36						
	03/11/15						37	5,600
	04/17/15	1589.41					33	5,300
	05/27/15	1589.29		0.024 J			32	5,500
	06/23/15	1589.25					31	5,300
ARP-2A	04/17/14	1588.35					17	5,600
	05/20/14	1588.15		0.014			17	6,000
	06/12/14	1588.06					18	5,900
	07/09/14	1588.03					20	5,800
	08/07/14	1588.54		0.0054 J			17	5,900
	09/11/14	1588.77					21	6,200
	10/15/14	1589.00					22	6,000
	11/25/14	1589.01		0.011			24	5,700
	12/29/14	1589.09					20	5,900
	01/14/15	1588.92					22	5,900
	02/13/15	1588.70		0.011			23	5,800
	03/11/15	1588.65					22	6,000
	04/21/15	1588.70					21	5,800
	05/19/15	1588.70		0.0092			18	5,800
	06/25/15	1585.77					21	5,800
ARP-3A	04/17/14	1587.40					5.2	8,000
	05/20/14	1587.24		0.0054			5.6	8,200
	06/12/14	1587.14					5.6	7,900
	07/09/14	1587.15					5.8	8,200
	08/07/14	1587.43		<0.0050			5.4	8,000
	09/11/14	1587.84					6.0	8,700
	10/15/14	1588.06					5.5	8,300
	11/25/14	1588.05		0.0058			5.2	8,200
	12/29/14	1588.10					5.8	8,200

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ARP-3A	01/14/15	1587.98					5.4	8,400
	02/12/15	1587.71		0.0079			5.4	8,300
	03/11/15	1587.66					6.5	8,400
	04/21/15	1587.73					6.1	7,900
	05/19/15	1587.75		0.0027 J			6.0	8,100
	06/25/15	1600.79					5.8	7,900
ARP-4A	04/17/14	1586.30					26	5,300
	05/20/14	1586.12		0.0039 J			26	5,300
	06/12/14	1586.08					28	5,100
	07/09/14	1586.01					28	5,100
	08/07/14	1586.43		<0.0050			25	5,200
	09/11/14	1586.79					27	5,300
	10/15/14	1586.96					23	5,400
	11/25/14	1586.99		0.0040 J			22	5,300
	12/29/14	1587.09					22	4,900
	01/14/15	1587.03					24	5,200
	02/12/15	1586.94		0.0063			24	5,100
	03/11/15	1586.79					25	5,200
	04/17/15	1586.74					21	4,700
	05/19/15	1586.72		<0.0025			17	5,300
	06/25/15	1586.64					16	4,700
ARP-5A	04/17/14	1583.97					16	6,000
	05/21/14	1583.72		0.028			19	6,900
	06/12/14	1583.65					20	6,400
	07/09/14	1583.51					21	6,400
	08/07/14	1583.73		0.022			15	6,100
	09/11/14	1584.11					13	5,900
	10/15/14	1584.38					9.9	5,500
	11/25/14	1584.58		0.031			8.7	5,100
	12/29/14	1584.78					7.8	4,500
	01/14/15	1584.79					7.9	4,400
	02/12/15	1584.71		0.019			7.0	4,000
	03/11/15	1584.54					7.4	4,100
	04/17/15	1584.42					5.4	3,700
	05/19/15	1584.38		0.0099			4.7	4,200
	06/24/15	1584.18					4.5	3,600
ARP-6B	04/17/14	1583.99					44	7,400
	05/21/14	1583.69		0.26			43	7,500
	06/12/14	1583.60					48	7,500
	07/09/14	1583.48					53	7,700
	08/07/14	1583.77		0.30			53	7,800
	09/11/14	1584.08					45	8,300
	10/15/14	1584.34					37	7,800
	11/25/14	1584.55		0.35			55	7,500
	12/29/14	1584.72					43	7,600

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ARP-6B	01/15/15	1584.59					54	8,100
	02/12/15	1584.60		0.36			67	8,100
	03/11/15	1584.42					72	7,700
	04/17/15	1584.33					49	6,900
	05/19/15	1584.30		0.27			48	7,500
	06/24/15	1584.08					46	7,700
ARP-7	04/17/14	1583.57					19	7,200
	05/20/14	1583.32		0.14			18	8,400
	06/12/14	1583.19					19	8,000
	07/09/14	1583.05					20	8,400
	08/07/14	1583.28		0.14			20	8,300
	09/11/14	1583.67					20	8,600
	10/15/14	1583.91					20	8,400
	11/25/14	1584.09		0.15			18	8,300
	12/29/14	1584.22					16	8,100
	01/15/15	1584.17					20	8,100
	02/12/15	1584.11		0.12			17	7,800
	03/12/15	1583.95					15	7,100
	04/17/15	1583.86					14	7,300
	05/19/15	1583.81		0.096			14	7,600
	06/24/15	1583.62					16	7,900
ART-1	04/07/14						8.8	6,200
	04/14/14	1578.73						
	05/05/14	1577.90		0.011			8.8	6,200
	06/03/14						9.2	6,100
	06/20/14	1578.06						
	07/01/14						11	6,100
	07/02/14	1578.57						
	08/04/14			0.018			15	6,100
	08/08/14	1590.31						
	09/03/14						17	6,000
	09/08/14	1590.54						
	10/07/14						14	6,600
	10/22/14	1581.26						
	11/03/14			0.0027 J			11	6,200
	11/05/14	1578.45						
	12/01/14						12	6,200
	12/16/14	1589.59						
	01/05/15						17	5,900
	01/15/15	1589.38						
	02/02/15			0.0029 J			16	5,600
	02/03/15	1589.32						
	03/03/15						18	5,800
	03/10/15	1589.49						
	04/06/15						18	5,800

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-1	04/17/15	1589.15						
	05/04/15			<0.0025			17	5,700
	05/28/15	1588.99						
	06/01/15						17	5,900
	06/09/15	1589.10						
ART-1A	04/14/14	1590.23						
	05/05/14	1590.12						
	06/20/14	1589.97						
	07/02/14	1589.57						
	08/08/14	1589.84						
	09/08/14	1590.03						
	10/22/14	1590.71						
	11/05/14	1590.67						
	12/16/14	1591.00						
	01/15/15	1590.67						
	02/03/15	1590.46						
	03/10/15	1590.67						
	04/17/15	1590.59						
	05/28/15	1590.43						
	06/09/15	1590.56						
ART-2	04/07/14						44	9,300
	04/14/14	1589.23						
	05/05/14	1589.12		0.031			43	9,500
	06/03/14						45	9,500
	06/20/14	1589.01						
	07/01/14						49	9,600
	07/02/14	1588.86						
	08/04/14			0.056			46	9,900
	08/08/14	1589.35						
	09/03/14						47	9,900
	09/08/14	1589.58						
	10/07/14						40	10,000
	10/22/14	1589.78						
	11/03/14			0.027			45	9,800
	11/05/14	1589.51						
	12/01/14						40	11,000
	12/16/14	1590.58						
	01/05/15						33	9,600
	01/15/15	1590.24						
	02/02/15			0.017			34	9,700
	02/03/15	1590.05						
	03/03/15						36	9,400
	03/10/15	1590.23						
	04/06/15						36	9,700
	04/17/15	1589.99						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-2	05/04/15			0.014			39	9,500
	05/28/15	1589.82						
	06/01/15						32	9,800
	06/09/15	1590.44						
ART-2A	04/14/14	1589.93						
	05/05/14	1589.77						
	06/20/14	1589.63						
	07/02/14	1589.46						
	08/08/14	1590.00						
	09/08/14	1590.22						
	10/22/14	1590.40						
	11/05/14	1590.28						
	12/16/14	1589.33						
	01/15/15	1588.77						
	02/03/15	1588.73						
	03/10/15	1589.02						
	04/17/15	1588.92						
	05/28/15	1588.75						
	06/09/15	1588.80						
ART-3	04/07/14						230	8,700
	04/14/14	1586.99						
	05/05/14	1586.93		0.35			210	8,600
	06/03/14						190	8,800
	06/20/14	1586.73						
	07/01/14						250	8,600
	07/02/14	1586.87						
	08/04/14			0.42			230	8,900
	08/08/14	1587.21						
	09/03/14						230	8,900
	09/08/14	1587.23						
	10/07/14						240	9,400
	10/22/14	1587.35						
	11/03/14			0.39			220	8,700
	11/05/14	1587.33						
	12/01/14						210	8,900
	12/16/14	1587.57						
	01/05/15						230	9,200
	01/15/15	1587.35						
	02/02/15			0.37			220	8,600
	02/03/15	1587.01						
	03/03/15						230	8,600
	03/10/15	1587.30						
	04/06/15						250	8,700
	04/17/15	1587.02						
	05/04/15			0.33			230	8,500

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-3	05/28/15	1587.11						
	06/01/15						230	8,800
	06/09/15	1587.23						
ART-3A	04/14/14	1581.19						
	05/05/14	1580.99						
	06/20/14	1581.29						
	07/02/14	1580.16						
	08/08/14	1581.23						
	09/08/14	1581.11						
	10/22/14	1580.09						
	11/05/14	1591.84						
	12/16/14	1577.53						
	01/15/15	1574.94						
	02/03/15	1579.23						
	03/10/15	1571.58						
	04/17/15	1575.97						
	05/28/15	1581.67						
	06/09/15	1579.38						
ART-4	04/07/14						300	6,900
	04/14/14	1588.40						
	05/05/14	1588.27		0.54			270	7,100
	06/03/14						250	7,200
	06/20/14	1579.08						
	07/01/14						320	7,000
	07/02/14	1588.08						
	08/04/14			0.59			300	7,000
	08/08/14	1579.08						
	09/03/14						310	7,100
	09/08/14	1579.08						
	10/07/14						310	7,800
	10/22/14	1579.34						
	11/03/14			0.60			280	6,700
	11/05/14	1579.18						
	12/01/14						270	7,000
	12/16/14	1578.86						
	01/05/15						280	6,700
	01/15/15	1578.83						
	02/02/15			0.54			250	6,500
	02/03/15	1579.03						
	03/03/15						260	6,300
	03/10/15	1578.88						
	04/06/15						260	6,300
	04/28/15	1580.13						
	05/04/15			0.46			260	6,200
	05/28/15	1591.88						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-4	06/01/15						280	6,700
	06/09/15	1579.01						
ART-4A	04/14/14	1575.44						
	05/05/14	1574.47						
	06/20/14	1587.78						
	07/02/14	1574.41						
	08/08/14	1588.22						
	09/08/14	1589.41						
	10/22/14	1588.52						
	11/05/14	1588.61						
	12/16/14	1588.68						
	01/15/15	1588.49						
	02/03/15	1588.69						
	03/10/15	1588.29						
	04/17/15	1587.91						
	05/28/15	1588.18						
	06/09/15	1588.30						
ART-6	04/07/14						40	6,900
	04/14/14	1585.98						
	05/05/14	1585.98						
	05/07/14			0.22			39	6,800
	06/03/14						44	7,400
	06/20/14	1585.70						
	07/01/14						52	6,800
	07/02/14	1585.63						
	08/04/14			0.27			52	6,900
	08/07/14	1585.67						
	09/03/14						51	6,900
	09/08/14	1585.68						
	10/08/14						47	7,200
	10/22/14	1586.09						
	11/03/14			0.21			36	6,300
	11/05/14	1586.14						
	12/01/14						36	6,500
	12/16/14	1586.33						
	01/05/15						37	6,700
	01/16/15	1587.12						
	02/02/15			0.15			30	6,700
	02/03/15	1587.08						
	03/03/15						36	6,400
	03/10/15	1586.83						
	04/06/15						37	6,400
	04/17/15	1586.57						
	05/04/15	1588.39		0.13			34	6,100

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-6	06/01/15						34	6,300
	06/09/15	1586.08						
ART-7	04/07/14						120	7,800
	04/14/14	1585.27						
	05/05/14	1585.36		0.70			120	7,700
	06/03/14						100	7,800
	06/20/14	1584.77						
	07/01/14						130	7,800
	07/02/14	1584.68						
	08/04/14			0.68			130	8,000
	08/07/14	1584.88						
	09/03/14						130	8,100
	09/08/14	1585.01						
	10/07/14						130	8,200
ART-7A	04/14/14	1582.94						
	05/05/14	1582.85						
	06/20/14	1582.43						
	07/02/14	1582.74						
	08/07/14	1582.65						
	09/08/14	1582.70						
	10/22/14	1584.94						
	11/05/14	1585.07						
	12/16/14	1585.51						
	01/16/15	1586.49						
	02/03/15	1586.45						
	02/13/15			1.7 J-			200	8,100
	03/10/15	1586.17						
	04/17/15	1585.80						
	05/04/15	1585.81		1.9			160	7,600
	06/09/15	1585.53						
ART-7B	04/14/14	1585.29						
	05/20/14	1585.01		1.0			170	7,300
	06/12/14	1584.85						
	07/02/14	1584.75						
	08/07/14	1584.99		0.92			200	7,500
	09/08/14	1585.05						
	10/22/14	1583.95						
	11/03/14			0.65			120	7,700
	11/05/14	1582.89						
	12/01/14						140	7,900
	12/16/14	1581.78						
	01/16/15	1579.63						
	02/02/15			0.87			150	7,900
	02/03/15	1582.58						
	03/03/15						160	7,700

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-7B	03/10/15	1579.55						
	04/06/15						160	7,900
	04/17/15	1579.81						
	05/04/15			0.77			150	7,700
	05/28/15	1581.54						
	06/01/15						150	7,900
	06/09/15	1581.18						
ART-8	04/07/14						140	10,000
	04/14/14	1586.09						
	05/05/14	1585.93		0.18			120	9,800
	06/03/14						120	9,800
	06/20/14	1586.09						
	07/01/14						150	9,800
	07/02/14	1588.69						
	08/04/14			0.19			140	10,000
	08/08/14	1589.28						
	09/03/14						160	10,000
	09/08/14	1586.60						
	10/07/14						160	11,000
	10/22/14	1586.73						
	11/03/14			0.16			150	11,000
	11/05/14	1585.48						
	12/01/14						150	10,000
	12/16/14	1586.89						
	01/05/15						160	10,000
	01/15/15	1585.79						
	02/02/15			0.18			150	9,800
	02/03/15	1586.41						
	03/03/15						170	9,800
	03/10/15	1586.86						
	04/06/15						160	9,900
	04/17/15	1586.74						
	05/04/15			0.17			130	9,600
	05/28/15	1587.59						
	06/01/15						160	10,000
	06/09/15	1586.55						
ART-8A	04/14/14	1589.18						
	05/05/14	1589.05						
	06/20/14	1588.91						
	07/02/14	1591.63						
	08/08/14	1587.09						
	09/08/14	1591.78						
	10/22/14	1589.71						
	11/05/14	1589.48						
	12/16/14	1589.90						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-8A	01/15/15	1589.49						
	02/03/15	1589.31						
	03/10/15	1589.54						
	04/17/15	1589.08						
	05/28/15	1589.39						
	06/09/15	1590.33						
ART-9	04/07/14						220	6,600
	04/14/14	1583.58						
	05/05/14	1583.37		0.94			210	6,500
	06/03/14						200	6,700
	06/20/14	1582.88						
	07/01/14						230	6,700
	07/02/14	1582.47						
	08/04/14			0.98			230	6,900
	08/07/14	1583.08						
	09/03/14						240	7,000
	09/08/14	1583.00						
	10/07/14						250	7,400
	10/22/14	1583.51						
	11/03/14			1.1			200	6,500
	11/05/14	1583.50						
	12/01/14						210	6,700
	12/16/14	1584.93						
	01/05/15						230	6,600
	01/16/15	1585.56						
	02/02/15			0.79			200	6,200
	02/03/15	1585.43						
	03/03/15						240	6,200
	03/10/15	1584.75						
	04/06/15						280	6,500
	04/17/15	1584.41						
	05/04/15			0.88			220	6,100
	05/28/15	1584.55						
	06/01/15						240	6,600
	06/09/15	1583.83						
H-11	05/14/14	1799.92					0.012	1,200
H-28A	05/09/14	1693.28		0.041			12	10,000
	08/13/14	1692.51		<0.0050			13	12,000
	05/28/15	1692.47		0.053			14	11,000
H-48	05/08/14	1661.25		<0.040			14	8,600
H-58A	05/08/14	1664.49		<0.0040			0.30	12,000
	05/26/15	1663.39		<0.013			0.42	14,000
HM-2	05/07/14	1560.17					3.4	4,900
	05/06/15	1559.88					4.6	4,700

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
HMW-13	05/07/14	1578.50					<0.0025	1,400
	05/07/15	1578.47					<0.0025	1,400
HMW-14	05/07/14	1580.21					0.66	1,600
	05/06/15	1580.35					0.031	1,500
HMW-15	05/07/14	1600.68					0.0058	2,000
	05/06/15	1600.53					0.008 J	2,500
HMW-16	05/07/14	1612.68					17	5,800
	05/20/15	1612.54					23	6,100
I-AA	04/15/14	1722.04						
	05/05/14	1709.99		0.076			130	3,400
	06/17/14	1722.09						
	07/03/14	1732.87						
	08/11/14	1709.94		0.77			120	3,700
	09/17/14	1709.96						
	10/21/14	1709.85						
	11/19/14	1709.99						
	12/01/14	1709.85		1.4			91	3,500
	01/20/15	1709.92						
	02/23/15	1709.22		0.13			120	3,000
	03/24/15	1709.91						
	04/23/15	1709.91						
	05/04/15	1709.94		0.43			110	3,400
	06/17/15	1708.37						
I-AB	04/15/14	1722.55						
	05/05/14	1722.17		0.039			700	4,800
	06/17/14	1721.92						
	07/03/14	1721.56						
	08/11/14	1720.88						
	09/17/14	1720.76						
	10/21/14	1720.66						
	11/19/14	1720.63						
	12/01/14	1720.61		0.016			470	4,500
	01/20/15	1721.62						
	02/23/15	1720.60		0.12			560	3,600
	03/24/15	1720.65						
	04/23/15	1720.63						
	05/04/15	1720.53		<0.013			500	4,100
	06/17/15	1720.36						
I-AC	04/18/14	1723.72						
	05/16/14	1712.93		1.3			100	7,000
	06/19/14	1723.93						
	07/03/14	1724.18						
	08/14/14	1724.42						
	09/17/14	1724.55						
	10/21/14	1724.59						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-AC	11/20/14	1724.56						
	12/01/14	1724.53						
	12/02/14			1.0			25	16,000
	01/21/15	1723.88						
	02/26/15	1723.85		0.61			37	9,800
	03/25/15	1723.72						
	04/24/15	1723.70						
	05/29/15	1723.53		0.59			79	10,000
	06/16/15	1723.45						
I-AD	04/18/14	1725.96						
	05/13/14	1718.66		1.3			120	6,200
	06/19/14	1726.08						
	07/03/14	1726.27						
	08/14/14	1726.54		1.4			140	6,400
	09/17/14	1726.66						
	10/21/14	1726.68						
	11/20/14	1726.61						
	12/02/14	1726.66		2.4			140	6,200
	01/21/15	1726.03						
	02/26/15	1725.92		1.3			140	5,700
	03/25/15	1725.81						
	04/24/15	1725.73						
	05/29/15	1725.40		1.1			130	6,100
	06/16/15	1725.56						
I-AR	04/15/14	1715.17						
	05/05/14	1715.21		0.45			1,900	6,800
	06/17/14	1715.18						
	07/03/14	1715.14						
	08/11/14	1715.21		0.47			2,300	7,300
	09/17/14	1715.16						
	10/21/14	1715.29						
	11/19/14	1715.24						
	12/01/14			0.50			2,100	6,400
	12/02/14	1715.26						
	01/20/15	1715.32						
	02/23/15	1715.23		0.56			2,500	5,800
	03/24/15	1715.06						
	04/23/15	1715.18						
	05/04/15	1715.28		0.46			2,500	6,100
	06/16/15	1714.93						
I-B	04/15/14	1716.33						
	05/05/14	1717.94		0.27			1,200	6,100
	06/17/14	1713.84						
	07/03/14	1713.19						
	08/11/14	1710.35		0.16			920	5,900

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-B	09/17/14	1711.25						
	10/21/14	1711.19						
	11/19/14	1714.10						
	12/01/14	1709.20		0.14			760	5,000
	01/20/15	1709.20						
	02/23/15	1709.21		0.17			1,200	4,500
	03/24/15	1709.20						
	04/23/15	1709.25						
	05/04/15	1709.25		0.17			730	4,400
	06/17/15	1709.53						
I-C	04/15/14	1722.66						
	05/05/14	1722.36		3.5			900	7,300
	06/17/14	1720.04						
	07/03/14	1717.36						
	08/11/14	1716.93		2.7			900	7,400
	09/17/14	1716.72						
	10/21/14	1716.74						
	11/19/14	1716.63						
	12/01/14			2.8			880	6,900
	12/02/14	1716.61						
	01/20/15	1716.58						
	02/23/15	1717.06		2.9			960	6,600
	03/24/15	1717.19						
	04/23/15	1716.68						
	05/04/15	1716.28		3.1			940	6,700
	06/17/15	1715.76						
I-D	04/15/14	1724.56						
	05/05/14	1724.19		7.2			1,000	8,300
	06/17/14	1722.70						
	07/03/14	1721.30						
	08/11/14	1715.61		6.9			970	8,400
	09/17/14	1710.11						
	10/21/14	1707.84						
	11/19/14	1708.93						
	12/01/14			6.3			980	8,100
	12/02/14	1709.58						
	01/26/15	1715.21						
	02/23/15	1719.03		5.4			800	7,200
	03/24/15	1720.03						
	04/23/15	1713.31						
	05/04/15	1708.90		5.8			710	7,000
	06/17/15	1707.90						
I-E	04/15/14	1708.17						
	05/05/14	1708.29		9.0			940	9,100
	06/17/14	1708.00						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-E	07/03/14	1708.04						
	08/11/14	1708.02		7.9			830	8,900
	09/17/14	1708.09						
	10/21/14	1708.27						
	11/19/14	1708.29						
	12/01/14	1708.59		8.6			860	8,800
	01/20/15	1707.92						
	02/23/15	1707.93		8.0			870	8,400
	03/24/15	1708.12						
	04/23/15	1708.04						
	05/04/15	1707.90		9.1			740	8,500
	06/17/15	1708.13						
I-F	04/15/14	1723.75						
	05/05/14	1723.61		16			1,400	12,000
	06/17/14	1720.99						
	07/03/14	1719.81						
	08/11/14	1716.75		16			1,300	12,000
	09/17/14	1708.73						
	10/21/14	1708.65						
	11/19/14	1709.03						
	12/01/14	1708.65		17			1,300	12,000
	01/20/15	1708.73						
	02/23/15	1710.74		17			1,200	11,000
	03/24/15	1708.66						
	04/23/15	1710.33						
	05/04/15	1708.68		18			1,200	11,000
	06/17/15	1709.65						
I-G	04/15/14	1714.59						
	05/05/14	1711.93		27			1,700	14,000
	06/16/14	1714.61						
	07/03/14	1711.07						
	08/11/14	1712.65		22			1,700	16,000
	09/17/14	1708.28						
	10/21/14	1712.64						
	11/19/14	1712.85						
	12/01/14	1711.12		24			1,900	15,000
	01/20/15	1712.58						
	02/23/15	1711.37		22			1,500	15,000
	03/24/15	1712.42						
	04/23/15	1711.97						
	05/04/15	1711.05		13			930	8,600
	06/17/15	1712.11						
I-H	04/15/14	1720.78						
	05/05/14	1720.69		24			2,100	15,000
	06/16/14	1709.30						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-H	07/03/14	1709.42						
	08/11/14	1709.34		20			2,200	15,000
	09/17/14	1709.24						
	10/21/14	1709.27						
	11/19/14	1709.27						
	12/01/14	1709.18		21			1,900	14,000
	01/20/15	1709.17						
	02/23/15	1709.12		21			2,300	13,000
	03/24/15	1709.09						
	04/23/15	1709.20						
	05/04/15	1709.13		21			2,100	13,000
	06/17/15	1709.14						
I-I	04/18/14	1721.79						
	05/13/14	1721.58		11			820	10,000
	06/19/14	1722.18						
	07/03/14	1722.33						
	08/14/14	1722.70		13			680	9,300
	09/17/14	1722.79						
	10/21/14	1722.81						
	11/20/14	1722.76						
	12/01/14	1722.78						
	12/02/14			11			530	8,400
	01/21/15	1722.47						
	02/26/15	1721.26		11			990	8,600
	03/25/15	1721.02						
	04/24/15	1720.99						
	05/29/15	1720.79		10			780	9,100
	06/16/15	1721.17						
I-J	04/18/14	1718.23						
	05/13/14	1718.50		3.9			260	6,500
	06/19/14	1721.97						
	07/03/14	1722.30						
	08/14/14	1722.78		4.4			260	6,600
	09/17/14	1722.95						
	10/21/14	1722.93						
	11/20/14	1723.01						
	12/02/14	1722.96		3.9			260	6,300
	01/21/15	1713.34						
	02/27/15	1707.83		3.4			330	6,500
	03/25/15	1711.02						
	04/24/15	1714.72						
	05/29/15	1711.81		3.0			340	6,900
	06/16/15	1711.50						
I-K	04/18/14	1713.33						
	05/13/14	1715.08		2.0			220	7,000

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-K	06/19/14	1718.61						
	07/03/14	1719.82						
	08/14/14	1719.98		2.2			220	7,000
	09/17/14	1719.97						
	10/21/14	1719.43						
	11/20/14	1718.47						
	12/02/14	1716.55		2.1			250	6,700
	01/21/15	1715.01						
	02/26/15	1709.92		1.9			280	6,300
	03/25/15	1710.53						
	04/24/15	1711.32						
	05/29/15	1711.24		1.8			240	6,800
	06/16/15	1712.91						
I-L	04/15/14	1724.26						
	05/05/14	1722.89		1.2			730	6,200
	(FD)			1.1			730	6,400
	06/17/14	1721.06						
	07/03/14	1715.98						
	08/11/14	1711.72		0.94			990	6,400
	09/17/14	1720.68						
	10/21/14	1719.74						
	11/19/14	1712.41						
	12/01/14	1711.64		0.92			950	6,400
	01/20/15	1711.83						
	02/23/15	1711.73		0.95			940	5,600
	03/24/15	1711.61						
	04/23/15	1712.03						
	05/04/15	1713.06		0.83			1,000	5,500
	06/17/15	1713.01						
I-M	04/15/14	1723.93						
	05/05/14	1723.49		8.6			640	8,100
	06/17/14	1719.89						
	07/03/14	1714.81						
	08/11/14	1714.79		7.6			1,100	8,900
	09/17/14	1716.11						
	10/21/14	1715.97						
	11/19/14	1716.27						
	12/01/14	1716.27		7.4			1,000	8,800
	01/20/15	1716.69						
	02/23/15	1717.56		8.0			1,200	8,600
	03/24/15	1718.27						
	04/23/15	1716.83						
	05/04/15	1716.57		7.8			960	8,200
	06/17/15	1716.21						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-N	04/15/14	1723.40						
	05/05/14	1723.40		11			1,000	10,000
	06/17/14	1720.76						
	07/03/14	1719.57						
	08/11/14	1716.34		8.9			1,200	9,800
	09/17/14	1713.91						
	10/21/14	1715.10						
	11/19/14	1717.66						
	12/01/14	1717.63		9.3			1,100	10,000
	01/20/15	1718.06						
	02/23/15	1718.44		9.3			970	9,000
	03/24/15	1718.14						
	04/23/15	1717.71						
	05/04/15	1713.69		9.4			1,100	8,900
	06/17/15	1714.12						
I-O	04/15/14	1720.87						
	05/05/14	1720.67		19			1,300	12,000
	06/16/14	1719.15						
	07/03/14	1719.96						
	08/11/14	1720.54		13			1,200	10,000
	09/17/14	1720.57						
	10/21/14	1720.56						
	11/19/14	1715.95						
	12/01/14	1715.24		13			1,100	9,200
	01/20/15	1715.25						
	02/23/15	1715.02		16			1,300	9,800
	03/24/15	1715.23						
	04/23/15	1715.16						
	05/04/15	1714.98		16			1,200	10,000
	06/17/15	1715.57						
I-P	04/15/14	1708.93						
	05/05/14	1709.15		23			1,800	14,000
	06/16/14	1711.59						
	07/03/14	1712.07						
	08/11/14	1710.29		17			1,400	12,000
	09/17/14	1712.90						
	10/21/14	1711.50						
	11/19/14	1711.43						
	12/01/14	1710.61		17			1,200	11,000
	01/20/15	1709.33						
	02/23/15	1710.59		18			1,500	11,000
	03/24/15	1709.82						
	04/23/15	1710.57						
	05/04/15	1711.97		19			1,400	11,000
	06/17/15	1713.15						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-Q	04/15/14	1720.30						
	05/05/14	1720.74		26			1,500	14,000
	06/16/14	1714.47						
	07/03/14	1714.02						
	08/11/14	1713.23		21			1,700	15,000
	09/17/14	1713.50						
	10/21/14	1712.69						
	11/19/14	1713.79						
	12/01/14	1712.58		23			1,800	15,000
	01/20/15	1712.62						
	02/23/15	1713.11		22			1,800	14,000
	03/24/15	1712.93						
	04/23/15	1713.30						
	05/04/15	1712.92		23			2,000	14,000
	06/17/15	1713.12						
I-R	04/15/14	1717.01						
	05/05/14	1721.40		1.0			1,100	6,800
	06/17/14	1716.92						
	07/03/14	1712.14						
	08/11/14	1710.41		0.55			1,600	7,300
	09/17/14	1710.61						
	10/21/14	1715.12						
	11/19/14	1710.23						
	12/01/14	1709.22		0.53			1,500	6,600
	01/20/15	1709.58						
	02/23/15	1709.22		0.50			1,600	6,000
	03/24/15	1709.38						
	04/23/15	1710.17						
	05/04/15	1711.67		0.50			1,700	6,100
	06/17/15	1710.66						
I-S	04/15/14	1724.57						
	05/05/14	1724.22		1.9			650	6,100
	06/17/14	1723.16						
	07/03/14	1721.95						
	08/11/14	1721.49		1.5			690	5,900
	09/17/14	1721.29						
	10/21/14	1721.11						
	11/19/14	1721.08						
	12/01/14	1721.04		1.7			640	6,000
	01/20/15	1721.05						
	02/23/15	1721.21		1.7			650	5,500
	03/24/15	1721.35						
	04/23/15	1721.14						
	05/04/15	1724.64		1.7			730	5,600
	06/17/15	1718.52						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-T	04/15/14	1719.28						
	05/05/14	1718.40		25			1,600	14,000
	06/16/14	1708.43						
	07/03/14	1708.45						
	08/11/14	1708.38		23			1,700	16,000
	09/17/14	1708.42						
	10/21/14	1708.45						
	11/19/14	1708.42						
	12/01/14	1708.42		24			1,800	15,000
	01/20/15	1708.42						
	02/23/15	1708.49		23			2,000	15,000
	03/24/15	1708.44						
	04/23/15	1708.42						
	05/04/15	1708.38		25			2,000	15,000
	06/17/15	1708.40						
I-U	04/15/14	1708.05						
	05/05/14	1709.51		28			1,600	14,000
	06/16/14	1708.01						
	07/03/14	1707.73						
	08/11/14	1707.73		23			1,700	15,000
	09/17/14	1707.28						
	10/21/14	1707.90						
	11/19/14	1707.98						
	12/01/14	1707.75		23			1,800	16,000
	01/21/15	1707.70						
	02/23/15	1707.94		23			2,000	14,000
	03/24/15	1707.85						
	04/23/15	1707.63						
	05/04/15	1707.89		23			2,000	15,000
	06/17/15	1707.31						
I-V	04/18/14	1720.02						
	05/13/14	1719.78		14			930	10,000
	06/19/14	1720.12						
	07/03/14	1720.32						
	08/14/14	1720.74		12			1,000	10,000
	09/17/14	1720.77						
	10/21/14	1720.80						
	11/20/14	1720.86						
	12/02/14	1720.82		11			920	8,800
	01/21/15	1719.19						
	02/26/15	1719.18		11			1,200	8,100
	03/25/15	1718.82						
	04/24/15	1719.04						
	05/29/15	1718.39		10			1,100	8,800
	06/16/15	1719.50						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-W	04/15/14	1721.68						
	05/05/14	1720.56		20			1,500	13,000
	06/16/14	1719.79						
	07/03/14	1713.81						
	08/11/14	1703.98		14			1,100	11,000
	09/17/14	1716.85						
	10/21/14	1717.44						
	11/19/14	1720.16						
	12/01/14	1719.91		14			1,100	9,600
	01/20/15	1715.08						
	02/23/15	1708.61		15			1,300	9,400
	03/24/15	1714.37						
	04/23/15	1719.34						
	05/04/15	1707.87		16			1,500	10,000
	06/17/15	1713.02						
I-X	04/15/14	1724.09						
	05/05/14	1723.96		12			2,000	12,000
	06/17/14	1703.97						
	07/03/14	1713.76						
	08/11/14	1711.27		11			2,000	12,000
	09/17/14	1708.07						
	10/21/14	1707.38						
	11/19/14	1703.39						
	12/01/14	1704.43		12			1,900	12,000
	01/20/15	1708.54						
	02/23/15	1709.02		12			1,500	11,000
	03/24/15	1707.51						
	04/23/15	1704.19						
	05/04/15	1706.87		12			1,600	11,000
	06/17/15	1717.67						
I-Y	04/15/14	1724.18						
	05/05/14	1723.44		1.2			760	6,400
	06/17/14	1710.81						
	07/03/14	1716.11						
	08/11/14	1704.88		0.83			1,300	7,500
	09/17/14	1714.05						
	10/21/14	1712.96						
	11/19/14	1708.77						
	12/01/14	1711.28		0.82			1,400	6,800
	01/20/15	1710.87						
	02/23/15	1712.78		0.94			1,600	6,200
	03/24/15	1705.87						
	04/23/15	1710.63						
	05/04/15	1711.24		0.90			1,500	6,100
	06/17/15	1708.52						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-Z	04/18/14	1710.91						
	05/13/14	1710.82		10			380	7,700
	06/19/14	1720.94						
	07/03/14	1721.29						
	08/14/14	1722.53		8.1			310	6,900
	09/17/14	1722.64						
	10/21/14	1722.69						
	11/20/14	1722.67						
	12/02/14	1722.61		6.7			280	6,200
	01/21/15	1710.01						
	02/26/15	1713.75		7.4			440	6,700
	03/25/15	1710.11						
	04/24/15	1710.65						
	05/29/15	1710.50		7.4			400	7,200
	06/16/15	1710.59						
M-2A	05/13/14	1739.69		13			280	9,400
	05/29/15	1738.94		11			320	8,600
M-5A	05/12/14	1714.04		<0.0040			12	11,000
	08/12/14	1714.19		0.063			0.23	15,000
	02/05/15	1713.30						
	05/22/15	1713.68		<0.013			22	12,000
M-6A	05/09/14	1694.37		0.015			15	8,400
	08/13/14	1694.24		0.024			14	9,400
	05/28/15	1694.17		0.019			16	9,600
M-7B	05/12/14	1696.64		0.0043 J			26	9,700
	08/12/14	1696.49		0.023			26	9,600
	05/22/15	1695.97		<0.013			25	8,700
M-10	04/18/14	1786.77						
	05/15/14	1786.50	71	0.36	<0.00025	1.4	6.3	2,700
	06/19/14	1786.50						
	07/07/14	1786.62						
	08/15/14	1786.27	63	0.34	<0.00025	1.4	7.7	2,700
	09/17/14	1785.93						
	10/21/14	1785.64						
	11/21/14	1785.45						
	12/08/14	1785.27	73	0.36	0.00062 J	1.3	6.6	2,600
	01/21/15	1785.12						
	02/03/15	1784.94						
	03/03/15		58	0.40	<0.00025	1.3	7.2	2,600
	03/11/15	1783.97						
	03/26/15	1784.84						
	04/23/15	1784.77						
	06/03/15	1784.68	56	0.32	<0.00025	1.1	7.2	2,400 J
	(FD)			0.28	<0.00025		6.7	2,400 J
	06/16/15	1784.63						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-11	04/18/14	1772.32						
	05/15/14	1772.14	240	1.4	1.2	2.1	18	2,400
	06/19/14	1771.99						
	07/03/14	1771.97						
	08/15/14	1771.88		1.3	1.2		20	2,400
	(FD)			1.2	1.2		18	2,600
	09/17/14	1771.71						
	10/21/14	1771.58						
	11/21/14	1771.44						
	12/18/14	1771.32		1.4	1.2		17	2,400
	01/22/15	1771.19						
	02/26/15	1771.19		1.2	1.1		18	2,300
	03/26/15	1771.05						
	04/24/15	1771.01						
	06/05/15	1770.89	170	1.4	0.95	1.7	15	2,300 J
	06/16/15	1770.89						
M-12A	05/14/14	1770.60	1,900	9.1	9.1	7.6	160	6,600
	(FD)		1,800	9.1	9.1	9.0	150	6,700
	08/14/14	1770.40		9.6	9.7		210	7,200
	(FD)			9.8	9.5		200	7,300
	12/18/14	1769.94		11	10		220	7,200
	(FD)			12	10		230	7,000
	02/26/15	1769.86		11	11		240	7,300
	06/05/15	1769.78	2,000	9.7	10	9.0 J	230	7,200
	(FD)		2,000	10	10	14 J	230	7,300
M-13	05/15/14	1769.45	160	0.49		4.4	12	3,100
	06/05/15	1769.27	120	0.37		3.8	14	3,100 J
M-14A	04/15/14	1729.12						
	05/12/14	1729.14		0.050			31	3,300
	06/18/14	1728.99						
	07/03/14	1728.71						
	08/12/14	1728.44		0.038			32	3,600
	09/17/14	1728.35						
	10/21/14	1728.32						
	11/19/14	1728.20						
	12/08/14	1728.15		0.047			30	3,200
	01/20/15	1728.11						
	02/25/15	1728.14		0.042			33	3,100
	03/24/15	1728.11						
	04/23/15	1728.09						
	05/22/15	1727.99		0.047			27	3,300
	06/16/15	1727.91						
M-19	04/18/14	1732.16						
	05/13/14	1732.04		0.38			12	5,100
	06/19/14	1732.03						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-19	07/03/14	1732.07						
	08/14/14	1732.23		0.39			13	5,300
	09/17/14	1732.31						
	10/21/14	1732.24						
	11/20/14	1732.19						
	12/18/14	1732.18		0.39			14	5,100
	01/21/15	1731.95						
	02/04/15	1731.86						
	02/26/15	1731.75		0.40			17	4,900
	03/25/15	1731.65						
	04/24/15	1731.50						
	05/29/15	1731.41		0.35			14	5,300
	06/16/15	1731.85						
M-21	05/14/14	1751.30		0.61 J			13	3,400
	02/04/15	1751.21						
	06/05/15	1751.35		0.56			15	3,400 J
M-22A	04/18/14	1729.54						
	05/12/14	1729.38		19			1,200	12,000
	06/18/14	1729.33						
	07/02/14	1729.39						
	08/12/14	1729.50		18			1,200	13,000
	09/17/14	1729.55						
	10/21/14	1729.54						
	11/19/14	1729.53						
	12/08/14	1729.47		17			1,100	11,000
	01/20/15	1729.00						
	02/27/15	1728.82		16			1,400	8,900
	03/24/15	1728.70						
	04/23/15	1728.54						
	05/21/15	1728.45		16			1,200	12,000
	06/16/15	1728.40						
M-23	04/18/14	1686.90						
	05/09/14	1686.83	130	0.31		35	160	4,700
	06/19/14	1686.63						
	07/07/14	1686.58						
	08/13/14	1686.48		0.26 J-			190	4,300
	09/18/14	1686.43						
	10/22/14	1686.23						
	11/21/14	1686.16						
	12/05/14	1686.07		0.34			200	4,000
	01/20/15	1685.89						
	02/24/15	1685.82		0.29			210	3,800
	03/26/15	1685.76						
	04/15/15	1685.67						
	05/27/15	1685.49	110	0.32		33	190	4,300

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-23	06/17/15	1685.48						
M-25	04/15/14	1728.09						
	05/12/14	1727.86	1,900	6.9		32	480	7,800
	06/18/14	1727.17						
	07/03/14	1727.06						
	08/12/14	1726.62		7.0			500	8,200
	09/17/14	1726.55						
	10/21/14	1726.50						
	11/19/14	1726.42						
	12/08/14	1726.43		7.0			430	7,600
	01/20/15	1726.34						
	02/27/15	1726.39		7.0			490	7,400
	03/24/15	1726.37						
	04/23/15	1726.27						
	05/22/15	1726.14	1,900	6.9		20	430	7,500
	(FD)		1,900	6.6		19	460	7,400
	06/16/15	1726.17						
M-31A	04/18/14	1751.02						
	05/14/14	1751.03		2.4			330	3,900
	06/19/14	1751.00						
	07/03/14	1750.93						
	08/14/14	1750.86		4.3			690	6,000
	09/17/14	1750.80						
	10/21/14	1750.73						
	11/21/14	1750.60						
	12/09/14	1750.54		4.7			710	6,400
	01/21/15	1750.29						
	02/26/15	1750.39		4.5			860	6,000
M-31A	03/25/15	1750.03						
	04/24/15	1749.99						
	06/02/15	1749.96		5.9			770	6,600
	06/16/15	1749.45						
M-35	04/18/14	1740.69						
	05/13/14	1740.57		6.5			180	6,900
	(FD)			7.3			180	6,800
	06/19/14	1740.45						
	07/03/14	1740.45						
	08/14/14	1740.44		7.4			210	6,900
	09/17/14	1740.47						
	10/21/14	1740.40						
	11/20/14	1740.35						
	12/18/14	1740.27		5.8			200	5,900
	01/21/15	1740.09						
	02/26/15	1739.86		4.8			210	4,600
	03/25/15	1739.71						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-35	04/24/15	1739.65						
	05/29/15	1739.49		3.9			160	4,300
	06/06/15	1739.49						
M-36	01/09/15	1759.82						
M-37	04/15/14	1730.19						
	05/12/14	1730.13	15	0.036	0.018	99	1,200	5,800
	06/18/14	1729.73						
	07/03/14	1729.59						
	08/12/14	1729.37		0.014	0.014		1,300	6,400
	09/17/14	1729.35						
	10/21/14	1729.27						
	11/19/14	1729.25						
	12/05/14	1729.19		0.016	0.0083		1,400	4,700
	01/20/15	1729.15						
	02/27/15	1729.18		0.032	0.0093		1,300	4,300
	(FD)			0.013	0.0084		1,400	4,600
	03/24/15	1729.27						
	04/23/15	1729.17						
	05/22/15	1729.03	12	0.035	0.0063	130	1,100	4,900
	06/16/15	1728.87						
M-38	04/18/14	1729.00						
	05/12/14	1728.89		18	18 J-		730	12,000
	06/18/14	1728.68						
	07/02/14	1728.60						
	08/12/14	1728.54		20	18		640	12,000
	09/17/14	1728.49						
	10/21/14	1728.52						
	11/19/14	1728.50						
	12/08/14	1728.41		18	18		630	11,000
	(FD)			18	18		640	11,000
	01/20/15	1728.36						
	02/05/15	1728.33						
	02/27/15	1728.37		18	21		720	11,000
	03/24/15	1728.32						
	04/23/15	1728.25						
	05/21/15	1728.11	4,600	17	18	23	700	11,000
	06/16/15	1728.16						
M-44	04/18/14	1674.33						
	05/08/14	1674.18		0.99	0.94 J-		630	8,600
	(FD)			0.99	0.94 J-		770	8,700
	06/19/14	1674.13						
	07/07/14	1674.07						
	08/13/14	1673.94		0.99 J-	0.90		760	9,400
	09/18/14	1673.92						
	10/22/14	1673.82						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-44	11/21/14	1673.73						
	12/04/14	1673.63		1.0	0.93		740	8,400
	01/20/15	1673.49						
	02/24/15	1673.25		0.87	0.94		700	8,500
	(FD)			0.94	0.93		800	8,600
	03/26/15	1673.22						
	04/15/15	1673.19						
	05/26/15	1672.97		0.94	0.86		750	8,800
	(FD)			0.91	0.93		720	8,800
	06/17/15	1673.02						
M-48A	04/18/14	1688.40						
	05/08/14	1688.34	520	2.0		27	140	4,800
	06/19/14	1688.22						
	07/07/14	1688.18						
	08/13/14	1688.19		1.6 J-			140	5,300
	09/18/14	1688.16						
	10/22/14	1688.12						
	11/21/14	1688.10						
	12/04/14	1688.04		1.9			160	5,000
	01/20/15	1687.94						
	02/24/15	1687.86		2.1			180	4,900
	03/26/15	1687.78						
	04/15/15	1687.54						
	05/26/15	1687.64	600	2.1		22	190	5,600
	06/17/15	1687.67						
M-52	05/14/14	1761.25		2.1			440	5,400
	08/14/14	1761.07		2.0			560	5,400
	12/09/14	1760.66		1.9			430	4,900
	02/26/15	1760.33		1.8			530	4,600
	06/02/15	1760.24		1.9			410	5,000 J
M-55	04/15/14	1724.89						
	05/05/14	1724.71						
	06/17/14	1723.17						
	07/03/14	1722.27						
	08/08/14	1721.22						
	09/17/14	1721.09						
	10/21/14	1721.04						
	11/19/14	1721.04						
	12/02/14	1721.33						
	01/20/15	1721.15						
	02/05/15	1720.85						
	02/16/15	1721.36						
	03/24/15	1721.42						
	04/23/15	1721.05						
	05/04/15	1720.96						

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Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-55	06/16/15	1720.77						
M-56	04/15/14	1722.65						
	05/05/14	1722.09						
	06/16/14	1721.49						
	07/03/14	1720.64						
	08/08/14	1719.64						
	09/17/14	1719.34						
	10/21/14	1719.28						
	11/19/14	1719.20						
	12/02/14	1719.20						
	01/20/15	1719.06						
	02/16/15	1719.04						
	03/24/15	1718.90						
	04/23/15	1718.91						
	05/04/15	1718.81						
	06/16/15	1718.75						
M-57A	04/15/14	1724.23						
	05/12/14	1724.33		0.062			27	3,400
	(FD)			0.061	0.058 J-		27	3,400
	06/17/14	1724.21						
	07/03/14	1724.10						
	08/12/14	1723.91		0.049			30	3,300
	09/17/14	1723.81						
	10/21/14	1723.80						
	11/19/14	1723.72						
	12/05/14	1723.66		0.062			39	3,400
	01/20/15	1723.63						
	02/25/15	1723.57		0.054			38	3,400
	03/24/15	1723.65						
	04/23/15	1723.57						
	05/08/15	1723.55		0.064			34	3,300
	06/16/15	1723.52						
M-58	04/15/14	1721.71						
	05/05/14	1721.66						
	06/16/14	1721.46						
	07/02/14	1721.61						
	08/08/14	1721.82						
	09/17/14	1721.91						
	10/21/14	1721.90						
	11/19/14	1721.90						
	12/02/14	1721.78						
	01/20/15	1721.07						
	02/16/15	1721.02						
	03/24/15	1720.94						
	04/23/15	1721.06						

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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-58	05/04/15	1720.89						
	06/16/15	1721.03						
M-60	04/15/14	1722.03						
	05/05/14	1721.77						
	06/16/14	1719.51						
	07/02/14	1719.17						
	08/08/14	1718.95						
	09/17/14	1718.93						
	10/21/14	1718.89						
	11/19/14	1718.92						
	12/02/14	1721.00						
	01/20/15	1718.46						
	02/16/15	1718.40						
	03/24/15	1718.27						
	04/23/15	1718.17						
	05/04/15	1718.19						
	06/16/15	1718.06						
M-64	04/15/14	1723.40						
	05/12/14	1723.50		5.6			1,000	8,200
	06/18/14	1721.95						
	07/02/14	1721.17						
	08/12/14	1720.64		6.0			880	9,000
	09/17/14	1720.55						
	10/21/14	1720.55						
	11/19/14	1720.73						
	12/03/14	1720.39		2.9			390	5,600
	01/20/15	1721.04						
	02/25/15	1721.26		0.090			7.1	2,700
	03/24/15	1721.70						
	04/23/15	1720.39						
	05/08/15	1720.27		4.1			490	5,900
	06/16/15	1720.14						
M-65	04/15/14	1724.80						
	05/12/14	1724.61		20			980	13,000
	06/16/14	1723.10						
	07/02/14	1722.04						
	08/12/14	1721.09		20			1,100	14,000
	09/17/14	1720.99						
	10/21/14	1720.97						
	11/19/14	1720.95						
	12/03/14	1720.94		22			1,300	14,000
	01/20/15	1720.88						
	02/25/15	1720.78		23			1,600	13,000
	03/24/15	1720.75						
	04/23/15	1721.17						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-65	05/07/15	1720.75		22			1,200	13,000
	06/16/15	1720.58						
M-66	04/15/14	1723.66						
	05/12/14	1723.48		21			2,400	15,000
	06/16/14	1723.35						
	07/02/14	1723.41						
	08/12/14	1723.50		21			2,100	16,000
	09/17/14	1723.56						
	10/21/14	1723.83						
	11/19/14	1723.56						
	12/02/14	1723.47						
	12/03/14			21			2,200	14,000
	01/20/15	1722.86						
	02/25/15			23			2,300	14,000
M-66	03/02/15	1722.71						
	03/24/15	1722.61						
	04/23/15	1722.16						
	05/08/15	1722.28		21			1,900	14,000
	(FD)			23			2,100	14,000
	06/16/15	1722.41						
M-67	04/18/14	1724.08						
	05/13/14	1724.00		6.4			230	6,200
	06/19/14	1724.63						
	07/03/14	1724.86						
	08/14/14	1725.22		6.6			250	6,200
	09/17/14	1725.32						
	10/21/14	1725.33						
	11/20/14	1725.35						
	12/08/14	1725.28		3.0			260	5,800
	01/21/15	1723.86						
	02/26/15	1723.98		5.6			340	5,700
	03/25/15	1723.69						
	04/24/15	1723.68						
	05/29/15	1723.57		5.1			310	6,400
	06/16/15	1723.55						
M-68	04/18/14	1724.12						
	05/13/14	1724.08		1.8			170	6,600
	06/19/14	1724.44						
	07/03/14	1724.70						
	08/14/14	1724.92		1.7			170	6,700
	09/17/14	1725.07						
	10/21/14	1725.11						
	11/20/14	1725.10						
	12/08/14	1725.02		1.6			170	6,200
	01/21/15	1724.22						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-68	02/26/15	1724.19		1.5			210	6,000
	(FD)			1.5			170	6,000
	03/25/15	1724.01						
	04/24/15	1723.99						
	05/29/15	1723.89		1.4			180	6,500
	06/16/15	1723.80						
M-69	04/15/14	1717.33						
	05/12/14	1716.18		0.057			490	4,500
	06/17/14	1716.82						
	07/03/14	1716.70						
	08/12/14	1716.24		0.055			420	4,700
	09/17/14	1716.12						
	10/21/14	1716.06						
	11/19/14	1715.94						
	12/09/14	1715.93		0.058			350	4,000
	01/20/15	1715.98						
	02/25/15	1716.00		0.061			370	3,800
	03/24/15	1715.92						
	04/23/15	1716.12						
	05/08/15	1715.76		0.059			330	3,800
	06/16/15	1715.87						
M-70	04/18/14	1714.09						
	05/13/14	1713.88		3.8			530	6,800
	06/17/14	1713.61						
	07/03/14	1713.49						
	08/12/14	1713.23		3.8			560	7,300
	09/17/14	1713.05						
	10/21/14	1713.03						
	11/19/14	1712.97						
	12/08/14	1712.94		4.2			660	6,800
	01/20/15	1713.07						
	02/25/15	1713.07		4.4			810	6,900
	03/24/15	1713.01						
	04/23/15	1712.66						
	05/21/15	1712.88		3.9			710	7,500
	06/16/15	1712.87						
M-71	04/18/14	1712.13						
	05/13/14	1712.02		6.3			940	8,900
	06/17/14	1711.95						
	07/03/14	1711.80						
	08/12/14	1711.60		5.5			1,000	9,100
	09/17/14	1711.48						
	10/21/14	1711.48						
	11/19/14	1711.38						
	12/08/14	1711.42		4.9			940	7,000

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-71	01/20/15	1711.43						
	02/25/15	1710.47		11			1,400	11,000
	03/24/15	1711.40						
	04/23/15	1712.68						
	05/21/15	1711.23		4.7			1,100	8,200
	06/16/15	1711.38						
M-72	04/18/14	1714.85						
	05/13/14	1714.62		8.7			960	12,000
	06/17/14	1714.71						
	07/03/14	1714.62						
	08/12/14	1714.68		8.5			1,600	13,000
	09/17/14	1714.65						
	10/21/14	1714.72						
	11/19/14	1714.64						
	12/08/14	1714.55		9.8			1,100	11,000
	01/20/15	1714.46						
	02/25/15	1714.41		5.3			1,000	7,200
	03/24/15	1714.31						
	04/23/15	1714.36						
	05/21/15	1714.32		8.8			1,200	12,000
	06/16/15	1714.30						
M-73	04/18/14	1712.55						
	05/13/14	1712.46		11			450	9,800
	06/19/14	1712.63						
	07/03/14	1712.82						
	08/14/14	1712.95		9.6			450	9,000
	09/17/14	1713.02						
	10/21/14	1713.09						
	11/20/14	1713.09						
	12/09/14	1713.02		9.3			480	8,400
	01/21/15	1712.85						
	02/26/15	1712.82		12			600	8,400
	03/25/15	1712.72						
	04/24/15	1712.73						
	05/29/15	1712.66		9.4			540	8,800
	06/16/15	1712.61						
M-74	04/18/14	1716.61						
	05/13/14	1716.76		1.3			120	6,100
	06/19/14	1717.06						
	07/03/14	1717.24						
	08/14/14	1717.59		1.4			130	6,400
	09/17/14	1717.77						
	10/21/14	1717.87						
	11/20/14	1717.87						
	12/18/14	1717.87		1.4			150	6,300

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-74	01/21/15	1717.59						
	02/26/15	1717.50		1.5			200	5,900
	03/25/15	1717.40						
	04/24/15	1717.35						
	05/29/15	1717.32		1.4			150	6,300
	06/16/15	1717.11						
M-75	04/18/14	1741.86						
	05/13/14	1741.83		2.1			45	3,900
	06/19/14	1741.84						
	07/03/14	1741.84						
	08/11/14	1741.79						
	09/17/14	1741.83						
	10/21/14	1741.79						
	11/20/14	1741.85						
	12/02/14	1741.68						
	01/21/15	1741.77						
	02/16/15	1744.00						
	03/25/15	1741.75						
	04/24/15	1741.74						
	05/29/15	1741.74		1.9			48	4,000
	06/16/15	1741.78						
M-76	04/18/14	1745.99						
	05/13/14	1746.03		2.6			96	4,300
	06/19/14	1746.00						
	07/03/14	1745.99						
	08/11/14	1745.91						
	09/17/14	1745.95						
	10/21/14	1745.88						
	11/20/14	1745.87						
	12/02/14	1745.82						
	01/21/15	1745.85						
	02/16/15	1742.79						
	03/25/15	1745.85						
	04/24/15	1745.82						
	05/29/15	1745.84		2.1			130	4,500
	06/16/15	1745.83						
M-77	04/18/14	1762.60						
	05/14/14	1762.46		0.54 J			170	3,100
	06/19/14	1762.29						
	07/03/14	1762.25						
	08/11/14	1762.11						
	09/17/14	1762.07						
	10/21/14	1761.90						
	11/21/14	1761.57						
	12/02/14	1761.74						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-77	01/21/15	1761.60						
	02/16/15	1761.52						
	03/25/15	1761.38						
	04/24/15	1761.35						
	06/05/15	1761.10		0.56			220	3,000 J
	06/16/15	1761.17						
M-78	04/15/14	1724.14						
	05/05/14	1724.03						
	06/17/14	1721.76						
	07/03/14	1720.61						
	08/08/14	1718.97						
	09/17/14	1718.64						
	10/21/14	1718.63						
	11/19/14	1718.83						
	12/02/14	1718.99						
	01/20/15	1718.99						
	02/16/15	1719.12						
	03/24/15	1718.64						
	04/23/15	1718.54						
	05/04/15	1718.59						
	06/16/15	1718.45						
M-79	04/15/14	1712.25						
	05/12/14	1711.94		0.22			460	4,600
	06/17/14	1711.72						
	07/03/14	1711.62						
	08/12/14	1711.39		0.21			570	5,200
	09/17/14	1711.21						
	10/21/14	1711.15						
	11/19/14	1711.06						
	12/03/14	1711.05		0.19			630	4,700
	01/20/15	1711.14						
	02/25/15	1711.10		0.17			740	4,300
	03/24/15	1711.09						
	04/23/15	1710.96						
	05/08/15	1710.80		0.20			610	4,500
	06/16/15	1711.01						
M-80	04/18/14	1710.42						
	05/13/14	1710.35		1.2	1.2		210	3,000
	06/19/14	1710.25						
	07/03/14	1710.13						
	08/14/14	1710.11		1.3			270	3,400
	09/17/14	1710.03						
	10/21/14	1710.01						
	11/20/14	1710.00						
	12/18/14	1710.01		1.3			360	3,500

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-80	01/21/15	1710.02						
	02/26/15	1709.84		1.4			370	3,400
	03/25/15	1709.98						
	04/24/15	1709.60						
	05/29/15	1709.97		1.4			430	4,100
	06/16/15	1709.82						
M-81A	04/18/14	1708.73						
	05/13/14	1708.60		2.5			550	5,400
	06/19/14	1708.63						
	07/03/14	1708.58						
	08/14/14	1708.70		2.5			540	5,700
	09/17/14	1708.59						
	10/21/14	1708.54						
	11/20/14	1708.54						
	12/18/14	1708.48		2.0			550	4,700
	01/21/15	1708.45						
	02/26/15	1708.45		2.1			640	4,400
	(FD)			2.1			620	4,500
	03/25/15	1708.33						
	04/24/15	1708.37						
	05/29/15	1708.33		1.8			570	4,700
	06/16/15	1707.87						
M-83	04/17/14	1711.19					340	3,500
	05/13/14	1711.14		1.1			360	3,900
	06/13/14	1710.94					470	4,000
	07/09/14	1710.79					460	4,200
	08/14/14	1710.65		1.2			450	4,300
	09/11/14	1710.57					480	3,800
	10/14/14	1710.68					530	3,900
	11/24/14	1710.43		1.2			440	4,300
	12/30/14	1710.41					500	3,500
	01/15/15	1710.54					500	4,300
	02/13/15	1710.55		1.1			540	4,300
	03/11/15	1710.48					550	4,400
	04/16/15	1710.41					570	4,300
	05/29/15	1710.36		1.1			620	4,600
	06/25/15	1710.35					570	4,600
M-92	04/18/14	1764.19						
	05/12/14	1764.28		0.019			2.0	2,000
	06/19/14	1764.45						
	07/07/14	1764.49						
	08/11/14	1764.54						
	09/18/14	1764.68						
	10/22/14	1764.77						
	11/21/14	1764.74						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-92	12/02/14	1764.74						
	01/20/15	1764.70						
	02/16/15	1764.70						
	03/25/15	1764.59						
	04/15/15	1764.77						
	05/22/15	1764.70		0.021			3.3	2,000
	06/16/15	1764.69						
M-93	04/18/14	1761.87						
	05/12/14	1761.96						
	06/19/14	1762.14						
	07/07/14	1762.11						
	08/11/14	1762.19						
	09/18/14	1762.35						
	10/22/14	1762.38						
	11/21/14	1762.38						
	12/02/14	1762.32						
	01/20/15	1762.29						
	01/29/15	1762.34						
	02/16/15	1762.29						
	03/25/15	1762.27						
	04/15/15	1762.35						
	05/28/15	1762.32						
	06/16/15	1762.40						
M-95	04/18/14	1677.21						
	05/08/14	1677.17		0.64	0.6 J-		280	6,000
	06/19/14	1677.10						
	07/07/14	1677.04						
	08/13/14	1676.97		0.52 J-	0.55		350	6,600
	09/18/14	1676.90						
	10/22/14	1676.81						
	11/21/14	1676.62						
	12/05/14	1676.55		0.55	0.61		360	6,200
	01/20/15	1676.36						
	02/24/15	1676.16		0.51	0.57		340	5,900
	03/26/15	1676.20						
	04/15/15	1676.15						
	05/26/15	1676.01		0.54	0.52 R		310	6,300
	06/17/15	1675.91						
M-96	04/18/14	Dry						
	05/08/14	Dry						
	06/19/14	Dry						
	07/07/14	Dry						
	08/13/14	Dry						
	09/18/14	Dry						
	10/22/14	Dry						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-96	11/21/14	Dry						
	12/05/14	Dry						
	01/12/15	Dry						
	01/20/15	Dry						
	02/24/15	Dry						
	03/26/15	Dry						
	04/15/15	Dry						
	05/26/15	Dry						
	06/18/15	Dry						
M-97	04/18/14	1760.86						
	05/12/14	1760.93		0.069			71	4,300
	06/19/14	1761.01						
	07/07/14	1760.99						
	08/11/14	1760.91						
	09/18/14	1761.01						
	10/22/14	1760.97						
	11/21/14	1761.04						
	12/02/14	1760.98						
	01/20/15	1760.97						
	02/16/15	1760.94						
	03/25/15	1760.96						
	04/15/15	1760.92						
	05/22/15	1760.96		0.071			140	5,000
	06/16/15	1760.79						
M-98	04/18/14	Dry						
	05/09/14	Dry						
	06/19/14	Dry						
	07/07/14	Dry						
	08/13/14	Dry						
	09/18/14	Dry						
	10/22/14	Dry						
	11/21/14	Dry						
	12/05/14	Dry						
	01/20/15	Dry						
	01/21/15	1698.90						
	02/24/15	Dry						
	03/26/15	Dry						
	04/15/15	Dry						
	05/28/15	Dry						
	06/17/15	Dry						
M-99	04/18/14	1697.57						
	05/20/14	1697.50		0.22			80	3,600
	06/17/14	1697.49						
	07/03/14	1697.41						
	08/12/14	1697.36		0.25			95	3,900

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-99	09/17/14	1697.31						
	10/21/14	1697.28						
	11/19/14	1697.21						
	12/08/14	1697.18		0.26			98	3,300
	01/20/15	1697.18						
	01/21/15	1697.18						
	02/26/15	1697.04		0.25			130	3,400
	03/24/15	1697.10						
	04/23/15	1697.13						
	05/22/15	1697.11		0.23			110	3,600
	06/16/15	1697.13						
M-100	04/18/14	Dry						
	05/13/14	Dry						
	06/19/14	Dry						
	07/03/14	Dry						
	08/11/14	Dry						
	09/17/14	Dry						
	10/21/14	Dry						
	11/21/14	Dry						
	12/02/14	Dry						
	01/21/15	Dry						
	02/16/15	Dry						
	03/25/15	Dry						
	04/24/15	Dry						
	05/29/15	Dry						
	06/16/15	Dry						
M-101	04/18/14	Dry						
	05/13/14	Dry						
	06/19/14	Dry						
	07/03/14	Dry						
	08/11/14	Dry						
	09/17/14	Dry						
	10/21/14	Dry						
	11/21/14	Dry						
	12/02/14	Dry						
	01/21/15	Dry						
	02/16/15	Dry						
	03/25/15	Dry						
	04/24/15	Dry						
	05/29/15	Dry						
	06/16/15	Dry						
M-103	05/13/14	Dry						
	01/28/15	Dry						
M-115	04/18/14	1750.25						
	05/13/14	1750.13		0.029			20	2,500

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-115	06/19/14	1750.11						
	07/03/14	1749.93						
	08/11/14	1749.87						
	09/17/14	1749.85						
	10/21/14	1749.73						
	11/20/14	1749.68						
	12/02/14	1749.62						
	01/21/15	1749.65						
	02/16/15	1749.66						
	03/25/15	1750.00						
	04/24/15	1749.61						
	05/29/15	1749.65		0.054			18	2,300
	06/16/15	1749.47						
M-117	05/15/14	1808.51		0.014			<0.0005	720
	01/12/15	1809.65						
	05/26/15	1809.56		0.022			<0.0005	740
M-118	05/13/14	1810.83		0.016			<0.0005	700
	01/13/15	1811.16						
	05/19/15	1810.27		0.019			0.00079 J	810
M-120	05/13/14	1797.43		0.0051			0.067	2,100
	05/19/15	1794.62		0.0064			0.087	2,100
M-121	05/13/14	1797.91		0.025			0.94	4,700
	05/19/15	1796.11		0.028			1.2	4,200
M-123	05/14/14	1744.26					0.56	13,000
	06/03/15	1743.71		0.0061			0.27	13,000
M-124	05/14/14	1751.09		0.065 J			1.7	3,000
	06/03/15	1750.82		0.024			1.7	3,200 J
	(FD)			0.022			1.6	3,100 J
M-125	05/15/14	1733.89					0.44	12,000
	06/03/15	1732.66		0.029			0.69	13,000
M-126	05/12/14	1724.70		0.0074 J			<0.05	14,000
	05/08/15	1724.02		<0.013			0.93	16,000
M-128	05/14/14	1747.32					6.7	2,700
	06/03/15	1741.96		0.031			6.6	2,500 J
M-131	05/12/14	1721.62		0.073			38	3,300
	08/12/14	1720.87		0.070			36	3,600
	12/03/14	1720.58		0.089			39	3,300
	(FD)			0.081			42	3,300
	02/27/15	1720.54		0.069			46	3,400
	05/08/15	1720.31		0.089			36	3,400
M-132	05/14/14	1718.30		0.18 J			4.8	1,100
	06/05/15	1720.12		0.21			14	1,300 J
M-133	05/14/14	1716.90		0.95			33	5,900
	06/05/15	1717.50		1.0			46	5,900 J

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-134	05/12/14	1719.68		0.15			71	2,700
	05/08/15	1717.47		0.15			81	2,600
M-135	05/12/14	1718.96		0.067			36	3,400
	08/12/14	1717.42		0.065			35	3,800
	12/09/14	1717.21		0.084			45	3,500
	02/27/15	1717.14		0.070			40	3,300
	05/08/15	1717.16		0.054			42	3,400
M-136	05/12/14	1723.54		0.082			78	1,300
	02/08/15	1722.15						
	05/08/15	1721.76		0.087			72	1,200
M-137	05/14/14	1790.33		0.096 J			1.0	2,000
	06/03/15	1788.76		0.050			0.96	2,100 J
M-138	05/14/14	1790.19		0.077 J			1.1	2,500
	06/03/15	1788.53		0.065			1.3	2,200 J
M-139	05/15/14	1777.76		0.020 J			0.19	2,600
	06/02/15	1776.07		0.029			1.2	2,800 J
M-140	05/12/14			4.0			890	6,900
	05/08/15			2.1			1,500	7,500
M-141	05/14/14	1754.92		5.8			370	6,600
	06/02/15	1753.64		5.4			450	6,100
M-142	05/15/14	1743.39		0.037			7.5	2,700
	06/02/15	1742.36		0.042			8.9	2,600 J
M-144	05/15/14	1775.62		0.054			4.7	3,800
	(FD)			0.059			4.7	3,700
	06/02/15	1774.52		0.075			6.0	4,300 J
M-145	05/15/14	1774.50		<0.010			0.45	3,300
	06/02/15	1772.99		0.032			0.11	2,900 J
M-146	05/15/14	1777.71		0.090			3.0	4,500
	06/02/15	1776.52		0.092			3.2	4,400 J
M-147	05/15/14	1743.20		0.19			9.8	4,300
	06/02/15	1742.02		0.24			9.4	4,700 J
M-148A	05/15/14	1753.90		0.095			3.4	5,300
	06/02/15	1752.55		0.15			4.6	6,100
M-149	05/22/14	1752.30		1.1			130	1,500
	01/21/15	1751.97						
	05/26/15	1751.39		0.43			68	910
M-150	05/19/14	1736.45		0.028			0.076	540
	01/16/15	1735.71						
	05/20/15	1735.38		0.038			0.060	540
M-151	05/21/14	1712.61		0.028			0.0026	520
	01/20/15	1712.20						
	05/26/15	1711.89		0.026			0.0067	510
M-152	05/19/14	1672.19		0.025			0.21	640
	(FD)			0.025			0.22	640
	01/14/15	1671.88						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-152	05/21/15	1671.22		0.026			0.20	610
M-153	05/22/14	1766.70		0.012			0.013	570
	01/20/15	1766.38						
	05/26/15	1766.25		0.019			0.017	550
M-154	05/19/14	1747.73		0.025			0.0099	560
	01/15/15	1747.12						
	05/20/15	1747.15		0.022			<0.0005	570
M-155	05/21/14	1730.69		0.021			<0.0005	540
	05/26/15			0.081			2.1	570
M-156	05/15/14	1678.91		<0.0020			<0.0005	530
	01/21/15	1678.48						
	05/21/15	1677.92		<0.0025			<0.0005	550
M-161	05/20/14	1729.50		0.022			0.019	540
	01/15/15	1728.20						
	05/20/15	1728.65		0.023			0.0085	570
M-162	05/20/14	1726.21		0.027			39	740
	01/15/15	1724.71						
	05/20/15	1724.46		0.027			99	830
M-163	05/20/14	1721.47		0.025			0.031	530
	05/20/15	1719.83		0.029			0.15	570
M-164	05/19/14	1713.89		3.6			490	4,600
	05/20/15	1712.64		4.7			740	5,200
M-165	05/21/14	1721.69		0.021			0.049	520
	05/26/15	1721.93		0.029			0.040	520
M-166	05/05/14	1723.05						
	08/08/14	1721.68						
	12/02/14	1723.35						
	02/16/15	1721.33						
	05/04/15	1721.37						
M-167	05/05/14	1723.92						
	08/08/14	1721.53						
	12/02/14	1721.27						
	02/16/15	1721.26						
	05/04/15	1721.14						
M-168	05/05/14	1724.81						
	08/08/14	1722.50						
	12/02/14	1722.20						
	02/16/15	1722.27						
	05/04/15	1722.05						
M-169	05/05/14	1724.50						
	08/08/14	1721.91						
	12/02/14	1721.68						
	02/16/15	1721.80						
	05/04/15	1721.50						
M-170	05/05/14	1724.37						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-170	08/08/14	1721.30						
	12/02/14	1720.90						
	02/16/15	1721.45						
	05/04/15	1720.97						
M-172	05/05/14	1723.42						
	08/08/14	1717.45						
	12/02/14	1717.16						
	02/16/15	1717.13						
	05/04/15	1717.06						
M-173	05/05/14	1721.75						
	08/08/14	1721.30						
	12/02/14	1721.32						
	02/16/15	1720.52						
	05/04/15	1720.36						
M-174	05/13/14	1722.00						
	08/11/14	1722.96						
	12/02/14	1722.96						
	02/17/15	1721.72						
	05/22/15	1721.54						
M-175	05/13/14	1721.53						
	08/11/14	1723.56						
	12/02/14	1723.66						
	02/17/15	1721.41						
	05/22/15	1721.18						
M-176	05/13/14	1721.39						
	08/11/14	1723.71						
	12/02/14	1723.79						
	02/17/15	1721.33						
	05/22/15	1721.13						
M-177	05/03/14	1721.61						
	08/11/14	1722.64						
	12/02/14	1722.77						
	02/17/15	1721.69						
	05/22/15	1721.50						
M-181	05/21/14	1733.73		0.043			0.0018	510
	01/19/15	1733.79						
	05/26/15	1733.26		0.038			0.042	510
M-182	05/20/14	1728.43		1.2			8.3	13,000
	05/26/15	1728.00		1.4			8.9	13,000
M-186	05/22/14	1755.35		3.9			170	6,400
	1/20/2015	1754.71						
	05/07/15	1754.35						
	05/26/15	1754.25		3.4			230	5,900
MC-3	05/09/14	1691.26					7.2	19,000
	02/02/15	1691.18						

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Nevada Environmental Response Trust Site
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
MC-3	05/27/15	1691.22					7.1	18,000
MC-6	05/09/14	1683.15					0.54	15,000
	05/27/15	1682.87					0.56	16,000
MC-7	05/09/14	1690.95					2.3	8,500
	05/27/15	1690.51					3.6	8,000
MC-29	05/09/14	1685.94					1.5	22,000
	05/27/15	1685.92					1.6	20,000
MC-45	05/09/14	1681.85					0.77	15,000
	05/27/15	1681.59					0.66	16,000
MC-50	05/09/14	1682.95					0.33	14,000
	05/27/15	1682.71					0.51	16,000
MC-51	05/09/14	1684.15					0.077	15,000
	05/28/15	1683.94					0.079	17,000
MC-53	05/09/14	1683.09		0.0044 J			3.8	14,000
	05/28/15	1682.83		0.023			2.9	14,000
MC-65	05/08/14	1671.56		0.022			22	12,000
	05/27/15	1670.35		0.020 J			21	12,000
MC-69	05/09/14	1685.92					0.98	16,000
	05/27/15	1685.77					0.77	16,000
MC-93	05/09/14	1685.55					13	7,000
	05/28/15	1685.08					28	8,600
MC-97	05/09/14	1682.37					3.5	14,000
	05/28/15	1682.16					2.5	15,000
MW-16	05/12/14	1718.68		<0.0040			<0.05	11,000
	05/22/15	1718.13		<0.0050			0.54	11,000
MW-K4	04/17/14	1586.99					160	6,900
	05/20/14	1586.80		0.28			160	7,100
	06/12/14	1586.73					200	6,700
	07/09/14	1586.65					220	6,800
	08/07/14	1587.09		0.31			210	6,800
	09/11/14	1587.39					220	7,400
	10/15/14	1587.58					180	7,400
	11/25/14	1587.55		0.20			130	7,500
	12/29/14	1587.63					89	7,500
	01/14/15	1587.52					75	7,900
	02/12/15	1587.27		0.15			110	7,600
	03/11/15	1587.23					140	7,800
	04/21/15	1587.25					80	7,600
	05/19/15	1587.23		0.068			49	7,800
	06/25/15	1587.13					41	7,800
MW-K5	04/17/14	1568.19					25	6,900
	05/20/14	1567.69	82	0.079		13	28	6,900
	06/12/14	1567.51					27	6,600
	07/09/14	1567.54					27	6,300
	08/07/14	1567.90		0.088			27	6,900

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
MW-K5	09/11/14	1568.70					27	7,000
	10/15/14	1569.08					25	6,900
	11/25/14	1569.59		0.036			25	6,600
	12/29/14	1569.16					26	6,700
	01/15/15	1568.88					27	6,800
	02/12/15	1568.98		0.069			31	6,800
	03/12/15	1568.58					32	6,900
	04/17/15	1568.39					32	6,600
	05/19/15	1568.75	76	0.080		12	33	7,000
	06/24/15	1568.70					30	7,000
PC-1	05/21/14	Dry						
	05/20/15	Dry						
PC-2	05/07/14	1568.08	19	0.013		13 J-	3.0	5,300
	05/20/15	1568.95	17	0.032		12	3.2	5,400
PC-4	05/21/14	1564.78	78	0.087		21	7.0	7,000
	05/20/15	1566.24	80	0.12		21	7.5	7,100
PC-18	04/17/14	1589.81					110	9,800
	05/21/14	1589.52		0.11			98	10,000
	06/12/14	1589.45					120	9,700
	07/08/14	1589.46					120	10,000
	08/01/14	1589.83						
	08/08/14			0.11			110	10,000
	09/10/14	1590.18					130	11,000
	10/14/14	1590.35					150	10,000
	11/24/14	1590.50		0.12			120	10,000
	12/30/14	1590.60					130	10,000
	01/14/15	1590.34					120	10,000
	02/13/15	1590.21		0.12			140	9,900
	03/10/15	1590.16						
	03/11/15						150	10,000
	04/17/15	1590.20					130	10,000
	05/27/15	1590.11		0.16			140	10,000
	06/23/15	1590.06					130	10,000
PC-21A	05/08/14	1692.34	240	0.20		21	2.1	8,800
	05/26/15	1691.73	310	0.39		24	2.8	10,000
PC-24	05/06/14	1613.26		0.29			31	9,000
	05/05/15	1612.57		0.24			26	8,000
PC-28	05/08/14	1639.17		0.41			110	4,400
	05/28/15	1638.41		0.36			110	4,100
PC-31	05/08/14	1646.89		<0.0040			25	4,800
	05/28/15	1646.33		<0.0050			40	4,800
PC-37	04/18/14	1677.93						
	05/08/14	1677.90		0.17			330	7,200
	06/19/14	1677.79						
	07/07/14	1677.79						

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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-37	08/13/14	1677.67		0.15			350	7,900
	09/18/14	1677.60						
	10/22/14	1677.53						
	11/21/14	1677.48						
	12/05/14	1677.34		0.13			380	7,400
	01/20/15	1677.33						
	02/24/15	1677.22		0.13			360	7,200
	03/26/15	1677.17						
	04/15/15	1677.13						
	05/27/15	1676.90		0.12			360	7,600
	06/17/15	1676.88						
PC-40	05/08/14	1657.28		<0.0040			0.26	14,000
	05/26/15	1656.61		<0.013			0.63	15,000
PC-50	05/06/14	1620.98		0.076			130	9,800
	05/05/15	1620.91		0.066			120	11,000
PC-53	04/17/14	1567.43					2.5	5,300
	05/20/14	1566.88		0.088			2.7	5,600
	06/12/14	1566.61					3.0	5,400
	07/09/14	1566.46					2.9	5,400
	08/07/14	1566.84		0.089			2.7	5,400
	09/11/14	1567.64					2.7	5,400
	10/15/14	1568.06					2.3	5,400
	11/25/14	1568.88		0.090			1.9	5,200
	12/29/14	1568.48					1.8	5,100
	01/15/15	1568.16					1.9	5,200
	02/12/15	1568.26		0.10			2.2	5,100
	03/12/15	1567.79					2.1	5,000
	04/17/15	1567.23					2.0	4,900
	05/19/15	1567.75		0.11			2.0	5,500
	06/24/15	1567.73					2.1	5,400
PC-54	04/18/14	1681.15						
	05/08/14	1681.05		1.8			190	5,300
	06/19/14	1680.91						
	07/07/14	1680.86						
	08/13/14	1680.72		1.7 J-			220	5,600
	09/18/14	1680.68						
	10/22/14	1680.57						
	11/21/14	1680.42						
	12/04/14	1680.29		1.8			240	5,100
	01/20/15	1680.15						
	02/24/15	1679.98		2.1			270	4,900
	03/26/15	1679.95						
	04/15/15	1679.87						
	05/26/15	1679.69		2.2			290	5,500
	06/17/15	1679.62						

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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-55	04/16/14	1590.84					3.8	7,300
	05/21/14	1590.57		<0.0020			2.5	7,600
	06/13/14	1590.54					3.4	7,200
	07/10/14	1590.50					3.2	7,500
	08/08/14	1590.92		0.0043 J			3.1	7,500
	09/12/14	1591.13					3.3	7,700
	10/15/14	1591.37					3.6	7,600
	11/25/14	1591.47		<0.0025			2.8	7,400
	12/30/14	1591.57					3.1	7,000
	01/15/15	1591.24					3.2	7,500
	02/13/15	1591.21		0.0025 J			3.4	7,500
	03/10/15	1591.22						
	03/11/15						3.3	7,500
	04/17/15	1591.07					3.2	7,100
	05/27/15	1591.02		<0.013			4.4	7,300
	06/09/15	1591.07					1.8	7,500
PC-56	04/16/14	1555.46					18	4,500
	05/16/14	1555.10		<0.0020			18	4,700
	06/11/14	1554.81					20	4,900
	07/08/14	1555.01					20	4,900
	08/05/14	1554.65		0.0027 J			20	5,300
	09/10/14	1555.16					20	5,100
	10/14/14	1555.61					19	4,600
	11/24/14	1556.27		0.0032 J			18	4,400
	12/22/14	1556.26					22	4,900
	01/13/15	1556.20					21	4,900
	02/10/15	1556.30		0.0057			23	4,700
	03/09/15	1556.04					24	4,700
	04/16/15	1555.45					23	4,700
	05/14/15	1555.62		0.0052			24	4,400
	06/23/15	1555.41					22	4,600
PC-58	04/16/14	1554.61					2.0	2,900
	05/16/14	1554.30		0.016			2.3	3,000
	06/11/14	1554.00					2.9	3,000
	07/08/14	1554.54					2.8	3,100
	08/05/14	1553.82		0.025			3.3	3,500
	09/10/14	1554.33					3.4	3,400
	10/14/14	1554.75					4.8	3,200
	11/24/14	1555.37		0.015			5.4	3,700
	12/22/14	1555.42					5.6	3,300
	01/13/15	1555.38					4.6	3,500
	02/10/15	1555.50		0.018			5.1	3,400
	03/09/15	1555.30					3.6	3,400
	04/16/15	1554.80					3.7	3,700
	05/14/15	1554.84		0.026			4.6	3,500

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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-58	06/23/15	1554.80					5.1	3,700
PC-59	04/16/14	1556.23					4.5	2,900
	05/16/14	1555.91		<0.0020			4.6	2,800
	06/11/14	1555.61					4.7	2,900
	07/08/14	1555.44					4.8	2,900
	08/05/14	1555.39		<0.0025			4.2	2,900
	09/10/14	1555.98					3.9	2,800
	10/14/14	1556.38					4.4	2,800
	11/24/14	1556.78		<0.0025			3.2	2,600
	12/22/14	1556.86					3.4	2,600
	01/13/15	1556.70					2.7	2,500
	02/10/15	1556.93		<0.0025			2.7	2,600
	03/09/15	1556.54					2.5	2,400
	04/16/15	1556.29					2.3	2,400
	05/14/15	1556.34		<0.0025			2.4	2,300
	06/23/15	1556.22					2.3	2,300
PC-60	04/16/14	1555.89					1.7	2,300
	05/16/14	1555.49		<0.0020			1.7	2,200
	06/11/14	1555.21					2.1	2,300
	07/08/14	1555.34					1.6	2,200
	08/05/14	1555.05		<0.0025			1.9	2,300
	09/10/14	1555.56					1.7	2,200
	10/14/14	1556.06					1.6	2,100
	11/24/14	1556.69		0.0025 J			1.4	2,100
	12/22/14	1556.69					1.5	2,000
	01/13/15	1556.61					1.3	2,000
	02/10/15	1556.76		0.0025 J			1.5	2,000
	03/09/15	1556.45					1.3	2,000
	04/16/15	1555.93					1.2	2,000
	05/14/15	1556.06		<0.0025			1.1	1,900
	06/23/15	1555.93					1.1	1,900
PC-62	04/16/14	1556.72					0.091	1,800
	05/16/14	1556.40		<0.0020			0.078	1,800
	06/11/14	1556.17					0.063	1,700
	07/08/14	1555.91					0.081	1,700
	08/05/14	1556.01		<0.0025			0.11	1,700
	09/10/14	1556.53					0.16	1,700
	10/14/14	1556.85					0.23	1,700
	11/24/14	1557.20		<0.0025			0.18	1,800
	12/22/14	1557.32					0.21	1,700
	01/13/15	1557.12					0.16	1,800
	02/11/15	1557.31		<0.0025			0.10	1,800
	03/09/15	1557.06					0.088	1,700
	04/16/15	1556.61					0.058	1,700
	05/19/15	1556.87		<0.0025			0.046	1,700

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-62	06/23/15	1556.65					0.048	1,600
PC-64	05/08/14	1664.80		1.1			260	6,500
	05/28/15	1664.05		1.0			310	7,000
PC-65	05/08/14	1664.92		0.56			110	5,500
	05/28/15	1663.89		0.54			150	6,000
PC-66	05/08/14	1660.05		1.7			200	6,300
	06/02/15	1659.11		1.6			280	6,600
PC-67	05/08/14	1659.85		0.40			30	12,000
	05/28/15	1658.96		0.39			20	12,000
PC-68	04/16/14	1557.39					<0.0025	1,900
	05/16/14	1557.06		<0.0020			<0.0025	1,900
	06/11/14	1556.88					<0.0025	2,000
	07/08/14	1556.61					<0.0025	1,900
	08/05/14	1556.70		<0.0025			<0.0025	2,000
	09/10/14	1557.19					<0.0025	1,800
	10/14/14	1557.50					<0.0025	1,800
	11/24/14	1557.80		<0.0025			<0.0025	1,700
	12/22/14	1557.89					<0.0025	1,700
	01/13/15	1557.75					<0.0025	1,700
	02/11/15	1557.90		<0.0025			0.0045	1,600
	03/10/15	1557.68						
	03/11/15						<0.0025	1,800
	04/16/15	1557.46					<0.0025	1,700
	05/19/15	1557.56		<0.0025			<0.0025	1,800
	06/23/15	1557.31					<0.0025	1,800
PC-71	04/18/14	1671.82						
	05/08/14	1671.78		0.56			530	8,100
	06/19/14	1671.67						
	07/07/14	1671.64						
	08/13/14	1671.54		0.37 J-			410	7,900
	09/18/14	1671.40						
	10/22/14	1671.32						
	11/21/14	1671.21						
	12/04/14	1671.16		0.43			420	7,500
	01/20/15	1671.07						
	02/24/15	1670.89		0.42			440	7,400
	03/26/15	1670.93						
	04/15/15	1670.80						
	05/26/15	1670.70		0.40			590	7,500
	06/17/15	1670.59						
PC-72	04/18/14	1669.94						
	05/08/14	1669.83		0.22			200	7,200
	06/19/14	1669.69						
	07/07/14	1669.61						
	08/13/14	1669.42		0.14 J-			200	7,200

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-72	09/18/14	1669.32						
	10/22/14	1669.19						
	11/21/14	1669.10						
	12/04/14	1669.00		0.19			220	6,700
	01/20/15	1668.92						
	02/24/15	1668.75		0.17			270	6,800
	03/26/15	1668.76						
	04/15/15	1668.70						
	05/26/15	1668.54		0.36			530	7,800
	06/17/15	1668.47						
PC-73	04/18/14	1668.83						
	05/08/14	1668.71		0.46			370	7,300
	06/19/14	1668.53						
	07/07/14	1668.45						
	08/13/14	1668.26		0.39 J-			400	8,000
	09/18/14	1668.18						
	10/22/14	1668.02						
	11/21/14	1668.00						
	12/04/14	1667.92		0.49			450	7,400
	01/20/15	1667.82						
	02/24/15	1667.75		0.57			530	7,200
	03/26/15	1667.71						
	04/15/15	1667.71						
	05/26/15	1667.56		0.52			430	8,000
	06/17/15	1671.36						
PC-74	05/06/14	1553.52					0.43	4,800
	05/05/15	1552.98					0.47	4,600
PC-76	05/06/14	1553.27						
	05/05/15	1553.48						
PC-77	05/06/14	1559.14					3.2	4,500
	05/05/15	1559.87					2.9	4,400
PC-78	05/06/14	1559.97						
	05/05/15	1560.24						
PC-79	05/06/14	1555.25		<0.0020			1.5	2,200
	05/06/15	1555.54		<0.0025			1.2	2,100
PC-80	05/06/14	1555.25						
	05/06/15	1555.54						
PC-81	05/06/14	1555.15						
	05/06/15	1555.43						
PC-82	05/06/14	1552.01	0.030			0.12 J-	0.57	2,300
	05/06/15	1552.25	<0.02			0.31	0.013 J	1,900
PC-83	05/06/14	1552.92						
	05/06/15	1553.14						
PC-86	04/16/14	1549.36					0.25	2,000
	05/16/14	1549.09	<0.016	<0.0020		0.42 J-	0.22	1,900

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-86	06/11/14	1548.97					0.25	2,000
	07/10/14	1548.68					0.26	2,000
	08/05/14	1548.56		<0.0025			0.25	2,000
	09/10/14	1548.96					0.30	1,900
	10/14/14	1549.29					0.24	1,900
	11/24/14	1549.59		<0.0025			0.17	2,100
	12/22/14	1549.67					0.20	1,800
	01/13/15	1549.67					0.18	1,800
	02/11/15	1549.55		<0.0025			0.16	1,700
	03/10/15	1549.39						
	03/11/15						0.17	1,900
	04/16/15	1549.19					0.14	1,900
	05/19/15	1549.49	<0.02	<0.0025		<0.11	0.22	1,900
	06/23/15	1549.21					0.067	1,800
PC-87	05/06/14	1548.78						
	05/06/15	1548.94						
PC-88	05/06/14	1545.12						
	05/06/15	1545.35						
PC-90	04/16/14	1544.75					5.7	2,900
	05/16/14	1544.51	4.5	<0.0020		2.3	5.2	3,000
	06/11/14	1544.33					5.5	3,000
	07/08/14	1544.12					3.8	2,600
	08/05/14	1543.97		0.0026 J			3.8	2,600
	09/10/14	1544.28					3.7	2,500
	10/14/14	1544.64					3.9	2,500
	11/24/14	1544.92		<0.0025			3.4	2,600
	12/22/14	1544.97					4.4	2,600
	01/13/15	1545.04					4.2	2,700
	02/11/15	1544.48		<0.0025			6.4	2,800
	03/09/15	1544.37					5.9	2,600
	04/16/15	1544.32					5.6	2,700
	05/14/15	1544.79	1.7	<0.0025		1.7	5.4	2,600
	06/23/15	1544.62					5.0	2,700
PC-91	04/16/14	1540.70					4.8	3,400
	05/16/14	1540.62	3.7	<0.0020		1.8	4.1	3,300
	06/11/14	1540.50					3.8	3,100
	07/08/14	1540.05					3.3	3,000
	08/05/14	1540.04		0.0048 J			3.0	3,100
	09/10/14	1540.45					2.6	2,800
	10/14/14	1541.22					3.2	2,700
	11/24/14	1541.25		<0.0025			2.4	2,700
	12/22/14	1541.39					2.9	2,800
	01/13/15	1541.40					2.6	2,800
	02/11/15	1541.32		0.0069			3.0	2,900
	03/09/15	1541.25					3.2	2,900

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-91	04/16/15	1541.12					3.0	2,800
	05/14/15	1541.25	1.9	0.0028 J		<0.28	2.8	2,700
	06/23/15	1541.01					2.8	2,700
PC-92	05/16/14	1540.71		<0.0020			4.5	3,300
	05/14/15	1541.24		<0.0025			1.6	2,600
PC-94	05/16/14	1536.19		0.031			15	6,400
	08/05/14	1535.76		0.023			17	6,700
	12/05/14	1536.88		0.036			20	6,000
	02/11/15	1537.03		0.034			23	5,600
	05/14/15	1536.87		0.037			23	6,200
PC-96	05/06/14	1546.34					2.9	3,600
	05/05/15	1546.60					2.5	2,400
PC-97	04/16/14	1544.01					1.4	2,400
	05/16/14	1543.89		<0.0020			1.2	2,300
	06/11/14	1543.69					1.5	2,300
	07/08/14	1543.37					1.6	2,300
	08/05/14	1543.40		0.0036 J			1.7	2,400
	09/10/14	1543.74					1.8	2,300
	10/14/14	1544.02					2.2	2,400
	11/14/14	1544.27						
	11/24/14			0.0026 J			1.9	2,400
	12/22/14	1544.34					2.0	2,300
	01/13/15	1544.31					1.6	2,300
	02/12/15	1543.90		<0.0025			1.6	2,200
	03/09/15	1543.85					1.7	2,300
	04/16/15	1544.31					1.8	2,300
	05/14/15	1544.11		0.0031 J			1.7	2,200
	06/23/15	1543.94					1.4	2,300
PC-98R	04/17/14	1569.91					25	6,100
	05/20/14	1569.38		0.047			26	6,800
	06/12/14	1569.17					27	6,500
	07/09/14	1569.23					29	6,300
	08/07/14	1569.76		0.025			27	6,200
	09/11/14	1570.57					32	6,500
	10/15/14	1570.84					32	6,400
	11/25/14	1571.17		0.015			31	6,000
	12/30/14	1570.82					31	5,600
	01/14/15	1570.44					28	6,500
	02/18/15	1570.40		0.037			31	6,400
	03/11/15	1571.16					36	6,700
	04/21/15	1570.13					33	6,100
	05/20/15	1570.46		0.020 J			32	6,000
	06/09/15	1570.52					34	6,100
PC-99R2/R3	04/07/14						13	4,100
	04/08/14	1532.78						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-99R2/R3	05/05/14	1538.64		0.020			14	4,100
	06/03/14						15	3,500
	06/20/14	1533.14						
	07/01/14						18	4,400
	07/02/14	1537.42						
	08/04/14			0.029			17	4,800
	08/06/14	1537.28						
	09/03/14	1538.52					20	4,900
	10/07/14						20	5,300
	10/22/14	1538.09						
	11/03/14			0.0033 J			17	4,800
	11/04/14	1536.57						
	12/01/14						17	4,700
	12/16/14	1538.36						
	01/05/15						20	4,800
	01/07/15	1535.32						
	02/02/15			0.0026 J			18	4,600
	02/04/15	1539.46						
	03/03/15						19	4,300
	03/05/15	1538.45						
	04/06/15						20	4,400
	04/09/15	1537.53						
	05/04/15			0.0040 J			19	4,300
	05/28/15	1540.43						
	06/01/15						20	4,700
	06/11/15	1538.99						
PC-101R	04/17/14	1588.55					100	10,000
	05/20/14	1588.43		0.017			26	8,700
	06/12/14	1588.38					9.2	7,700
	07/09/14	1588.31					14	8,700
	08/07/14	1588.91		0.0092 J			21	8,700
	09/11/14	1588.95					120	11,000
	10/15/14	1589.11					120	11,000
	11/25/14	1589.21		0.080			120	11,000
	12/29/14	1589.31					110	11,000
	01/15/15	1588.91					110	11,000
	02/12/15	1589.72		0.074			140	11,000
	03/12/15	1588.90					120	11,000
	04/21/15	1588.96					130	11,000
	05/20/15	1588.92		0.084			110	11,000
	06/25/15	1588.86					99	11,000
PC-103	04/17/14	1575.78					18	4,600
	05/20/14	1575.46	2.5	<0.0020		6.3	18	5,100
	06/12/14	1575.38					21	4,900
	07/09/14	1575.60					22	4,800

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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-103	08/07/14	1576.27		<0.0050			20	4,900
	09/11/14	1577.04					21	4,900
	10/15/14	1576.98					18	4,600
	11/25/14	1576.78		<0.0025			17	4,400
	12/30/14	1576.46					19	3,900
	01/14/15	1575.96					19	4,400
	02/18/15	1575.98		<0.0025			24	4,600
	03/11/15	1575.91					25	4,800
	04/21/15	1576.26					23	4,900
	05/20/15	1576.54	2.7	0.0028 J		8.5	23	4,600
	06/25/15	1576.32					18	4,400
PC-107	05/07/14	1607.18					53	4,800
	05/27/15	1606.99					62	5,100
PC-108	05/06/14	1572.56					0.0073	2,200
	05/06/15	1573.86					<0.0005	2,100
PC-110	05/06/14	1578.80					1.1	4,500
	05/06/15						1.4	4,500
	05/08/15	1578.42						
PC-115R	04/07/14						5.9	2,800
	04/08/14	1543.81						
	05/05/14	1543.92		0.0082			6.5	2,900
	06/03/14						7.5	3,000
	06/20/14	1542.92						
	07/01/14						9.3	3,200
	07/02/14	1542.71						
	08/04/14			0.0084			10	3,400
	08/06/14	1542.57						
	09/03/14	1542.79					11	3,500
	10/07/14						11	3,800
	10/22/14	1543.28						
	11/03/14			<0.0025			9.9	3,300
	11/04/14	1543.40						
	12/01/14						10	3,400
	12/16/14	1543.54						
	01/05/15						11	3,400
	01/20/15	1543.52						
	02/02/15			<0.0025			10	3,200
	02/04/15	1543.71						
	03/03/15						11	3,100
	03/05/15	1542.92						
	04/06/15						11	3,000
	04/09/15	1542.90						
	05/04/15			<0.0025			11	3,200
	05/28/15	1543.33						
	06/01/15						11	3,300

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-115R	06/11/15	1546.52						
PC-116R	04/07/14						12	4,100
	04/08/14	1539.41						
	05/05/14	1538.72		0.0069			13	4,100
	06/03/14						13	4,100
	06/20/14	1538.14						
	07/01/14						16	4,500
	07/02/14	1537.97						
	08/04/14			0.027			15	4,700
	08/06/14	1537.94						
	09/03/14	1538.36					18	4,600
	10/07/14						18	5,100
	10/22/14	1538.65						
	11/03/14			0.0025 J			15	4,600
	11/04/14	1538.88						
	12/01/14						16	4,500
	12/16/14	1539.03						
	01/05/15						18	4,500
	01/07/15	1539.04						
	02/02/15			0.0038 J			17	4,400
	02/04/15	1539.12						
	03/03/15						17	4,100
	03/05/15	1537.19						
	04/06/15						17	4,300
	04/09/15	1537.70						
	05/04/15			<0.0025			16	4,200
	05/28/15	1538.63						
	06/01/15						17	4,600
	06/11/15	1538.87						
PC-117	04/07/14						7.7	3,400
	04/08/14	1541.40						
	05/05/14	1541.24		0.0073			7.8	3,400
	06/03/14						7.6	3,400
	06/20/14	1540.93						
	07/01/14						9.0	3,600
	07/02/14	1540.70						
	08/04/14			0.0085			8.7	3,900
	08/06/14	1540.66						
	09/03/14	1540.81					11	3,500
	10/07/14						11	4,200
	10/22/14	1541.28						
	11/03/14			<0.0025			9.3	3,700
	11/04/14	1541.41						
	12/01/14						9.3	3,500
	12/16/14	1541.50						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-117	01/05/15						9.6	3,400
	01/07/15	1541.52						
	02/02/15			0.0027 J			9.3	3,500
	02/04/15	1541.38						
	03/03/15						10	3,300
	03/05/15	1538.35						
	04/06/15						10	3,400
	04/09/15	1538.08						
	05/04/15			<0.0025			11	3,300
	05/28/15	1540.68						
	06/01/15						10	3,600
	06/11/15	1540.86						
PC-118	04/07/14						2.4	2,300
	04/08/14	1546.74						
	05/05/14	1546.56		0.0065			2.3	2,300
	06/03/14						2.1	2,300
	06/20/14	1546.12						
	07/01/14						2.3	2,300
	07/02/14	1545.95						
	08/04/14			0.0075			2.3	2,400
	08/06/14	1546.47						
	09/03/14	1545.96					2.5	2,300
	10/07/14						2.6	2,600
	10/22/14	1546.40						
	11/03/14			<0.0025			2.6	2,300
	11/04/14	1546.61						
	12/01/14						3.0	2,300
	12/16/14	1546.71						
	01/05/15						3.1	2,300
	01/20/15	1546.69						
	02/02/15			<0.0025			2.9	2,300
	02/04/15	1546.84						
	03/03/15						3.1	2,300
	03/05/15	1546.30						
	04/06/15						2.5	2,300
	04/09/15	1546.31						
	05/04/15			<0.0025			2.7	2,200
	05/28/15	1546.38						
	06/01/15						2.7	2,300
	06/11/15	1546.58						
PC-119	04/07/14						0.40	1,900
	04/08/14	1548.43						
	05/05/14	1548.23		0.0078			0.37	1,900
	06/03/14						0.37	2,000
	06/20/14	1547.78						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-119	07/01/14						0.38	1,900
	07/02/14	1547.94						
	08/04/14			0.0077			0.38	2,000
	08/06/14	1547.60						
	09/03/14	1547.82					0.38	1,800
	10/07/14						0.40	2,100
	10/22/14	1548.24						
	11/03/14			<0.0025			0.40	1,800
	11/04/14	1548.42						
	12/01/14						0.48	1,800
	12/16/14	1548.46						
	01/05/15						0.49	1,800
	01/20/15	1548.54						
	02/02/15			<0.0025			0.40	1,800
	02/04/15	1548.65						
	03/03/15						0.39	1,900
	03/05/15	1548.36						
	04/06/15						0.29	1,900
	04/09/15	1548.25						
	05/04/15			<0.0025			0.35	1,800
	05/28/15	1548.37						
	06/01/15						0.25	1,800
	06/11/15	1548.48						
PC-120	04/07/14						0.14	1,900
	04/08/14	1550.22						
	05/05/14	1549.98		0.0065			0.15	1,900
	06/03/14						0.16	1,900
	06/20/14	1549.52						
	07/01/14						0.18	2,000
	07/02/14	1549.37						
	08/04/14			0.0073			0.18	2,000
	08/06/14	1549.34						
	09/03/14	1549.58					0.17	1,900
	10/07/14						0.17	2,100
	10/22/14	1550.08						
	11/03/14			<0.0025			0.17	1,900
	11/04/14	1550.27						
	12/01/14						0.17	1,900
	12/16/14	1550.34						
	01/05/15						0.18	1,900
	01/20/15	1550.36						
	02/02/15			<0.0025			0.17	1,900
	02/04/15	1550.45						
	03/03/15						0.13	1,800
	03/05/15	1550.11						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-120	04/06/15						0.085	1,900
	04/09/15	1549.97						
	05/04/15			<0.0025			0.082	1,800
	05/28/15	1550.11						
	06/01/15						0.081	1,800
	06/11/15	1550.42						
PC-121	04/07/14						0.75	2,100
	04/08/14	1549.66						
	05/05/14	1549.45		0.0060			0.65	2,100
	06/03/14						0.39	2,000
	06/20/14	1549.01						
	07/01/14						0.27	2,000
	07/02/14	1548.90						
	08/04/14			0.0069			0.30	2,100
	08/06/14	1548.80						
	09/03/14	1549.10					0.31	1,900
	10/07/14						0.29	2,200
	10/22/14	1549.56						
	11/03/14			<0.0025			0.27	2,000
	11/04/14	1549.78						
	12/01/14						0.29	1,900
	12/16/14	1549.84						
	01/05/15						0.30	2,100
	01/20/15	1549.83						
	02/02/15			<0.0025			0.22	1,900
	02/04/15	1549.99						
	03/03/15						0.34	2,000
	03/05/15	1549.65						
	04/06/15						0.32	2,000
	04/09/15	1549.46						
	05/04/15			<0.0025			0.35	1,900
	05/28/15	1549.59						
	06/01/15						0.26	1,900
	06/11/15	1549.66						
PC-122	05/20/14	1585.73		0.17			20	7,800
	06/12/14	1585.63					22	8,000
	07/09/14	1585.50					23	8,100
	08/07/14	1585.73		0.17			21	7,800
	09/12/14	1585.74					22	8,700
	10/15/14	1586.01					23	8,100
	12/30/14	1586.79					22	6,900
	01/15/15	1587.00					19	7,500
	02/13/15	1586.91		0.16			23	7,100
	03/12/15	1586.66					21	6,900
	04/17/15	1586.38					20	6,700

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-122	05/19/15	1586.33		0.15			21	7,200
	06/24/15	1585.75					21	7,700
PC-123	05/06/14	1603.82		1.0			240	6,600
	08/13/14	1603.86		0.99 J-			240	6,800
	12/04/14	1604.01		0.88			200	6,600
	02/24/15	1603.81		1.0			270	6,500
	05/05/15	1603.51		0.97			260	6,600
PC-124	05/06/14	1610.86	150	0.099		27 J-	9.0	8,800
	08/13/14	1610.78		0.084 J-			9.4	9,500
	12/04/14	1610.65		0.12			8.9	8,800
	02/24/15	1610.69		0.11			10	7,100
	05/05/15	1610.46	180	0.12		26	10	9,300
PC-125	05/06/14	1612.17		0.085			9.2	7,900
	08/13/14	1612.18		0.073 J-			10	8,500
	12/04/14	1612.12		0.091			9.6	7,700
	02/24/15	1612.02		0.077			6.9	6,500
	05/05/15	1611.63		0.044			5.5	6,200
PC-126	05/06/14	1612.62	190	0.17		23 J-	19	6,700
	08/13/14	1612.66		0.15 J-			21	6,800
	12/04/14	1612.59		0.18			19	6,300
	02/24/15			0.22			26	7,000
	02/26/15	1612.57						
	05/05/15	1612.08	210	0.22		25	23	8,300
PC-127	05/06/14	1614.28		0.97			230	5,900
	08/13/14	1612.68		0.84 J-			220	6,500
	12/04/14	1614.15		0.86			220	6,100
	02/24/15	1614.01		1.0			260	6,100
	05/05/15	1613.51		0.97			260	6,600
PC-128	05/06/14	1615.00	410	0.39		20 J-	260	6,200
	08/13/14	1614.95		0.37 J-			270	6,600
	12/04/14	1615.10		0.42			250	6,300
	02/24/15	1614.81		0.43			280	5,900
	05/05/15	1614.74	380	0.44		21	280	6,200
PC-129	05/06/14	1615.37		0.82			320	6,600
	08/13/14	1615.72		0.72 J-			300	6,800
	12/04/14	1615.53		0.74			290	6,200
	02/24/15	1615.53		0.73			310	6,100
	05/05/15	1615.45		0.67			290	6,300
PC-130	05/06/14	1613.92	520	0.82		29 J-	340	6,800
	08/13/14	1614.22		0.76 J-			340	7,500
	12/04/14	1614.14		0.81			340	6,900
	02/24/15	1613.95		0.91			410	6,700
	05/05/15	1613.97	520	0.87		28	370	7,200
PC-131	05/06/14	1622.37		<0.0020			2.6	8,800
	08/13/14	1622.65		0.0097 J-			2.4	9,000

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-131	12/04/14	1622.38		0.0043 J			2.5	9,200
	02/24/15	1622.34		0.0094			2.6	9,100
	05/06/15	1622.29		<0.0025			2.1	8,900
PC-132	05/06/14	1624.92	0.35	0.0024 J		1.2 J-	0.63	8,800
	(FD)		0.38	<0.0020		1.2 J-	0.69	8,800
	08/13/14	1625.07		0.0076 J-			0.68	9,100
	(FD)			0.0083 J-			0.71	9,100
	12/04/14	1624.78		<0.0025			0.44	9,100
	02/24/15	1624.83		0.0032 J			0.35	8,900
	05/05/15	1624.78	<0.05	<0.013		<1.1	0.20	9,100
PC-133	04/07/14						1.5	2,400
	04/08/14	1521.10						
	05/05/14	1545.66		0.0081			2.5	2,400
	06/03/14						4.8	2,800
	06/20/14	1545.37						
	07/01/14						1.1	2,500
	07/02/14	1521.81						
	08/04/14			0.0077			3.2	2,500
	08/06/14	1545.17						
	09/03/14	1545.34					6.1	3,000
	10/07/14						8.2	3,400
	10/22/14	1545.79						
	11/03/14			<0.0025			8.3	3,200
	11/04/14	1545.94						
	12/01/14						8.9	3,300
	12/16/14	1546.08						
	01/05/15						14	5,200
	01/07/15	1546.13						
	02/02/15			0.0031 J			9.0	3,400
	02/04/15	1546.19						
	03/03/15						11	3,300
	03/05/15	1545.72						
	04/06/15						9.0	3,300
	04/09/15	1545.66						
	05/04/15			<0.0025			11	3,100
	05/28/15	1545.94						
	06/01/15						10	3,500
	06/11/15	1545.93						
PC-134A	05/07/14	1589.04		0.0050			12	7,500
	05/07/15	1588.67		0.027			5.4 J+	1,800
PC-135A	05/07/14	1588.86		0.0049 J			17	9,100
	08/15/14	1589.10		<0.0025			11	8,900
	12/05/14	1589.67		0.011			23	9,100
	02/25/15	1589.24		0.049			70	9,800
	05/07/15	1589.40		0.038			74	10,000

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-136	05/07/14	1585.00		5.1			70	5,800
	08/15/14	1583.83		3.1			110	6,500
	12/05/14	1585.52		3.6			120	6,100
	02/25/15	1586.00		3.6			180	6,100
	05/20/15	1585.41		3.6			110	6,500
PC-137	05/07/14	1583.36		<0.0020			0.23	2,800
	05/20/15	1583.69		<0.0025			0.29	3,000
PC-142	05/07/14	1591.62		0.040 J			25	5,100
	(FD)			0.010 J			24	5,200
	05/27/15	1591.92		<0.013			28	5,300
PC-143	05/07/14	1589.01		0.030			3.0	7,700
	05/21/15	1589.49		0.0026 J			3.0	7,300
PC-144	04/17/14	1587.96						
	05/07/14	1587.82		0.47			230	6,300
	06/12/14	1587.76						
	07/09/14	1587.70						
	08/15/14	1589.00		0.46			290	7,000
	09/11/14	1588.32						
	10/15/14	1588.44						
	11/25/14	1588.42		0.40			220	6,700
	12/29/14	1588.55						
	01/15/15	1588.40						
	02/12/15	1588.11		0.29			160	7,400
	03/12/15	1588.09						
	04/21/15	1588.10						
	05/20/15	1588.11		0.045			13	8,300
	(FD)			0.048			13	8,500
	06/25/15	1588.05						
PC-145	05/07/14	1584.62		0.51			71	7,300
	05/20/15	1585.02		0.46			67	7,600
PC-146	05/07/14	Dry						
	05/21/15	Dry						
PC-147	05/07/14	1586.39						
	05/21/15	1586.62						
PC-148	05/07/14	1589.55		0.045			25	7,200
	08/15/14	1589.83		0.017			27	7,000
	12/05/14	1590.32		0.040			30	6,800
	02/27/15	1590.20		0.031			33	7,000
	05/21/15	1590.13		0.021			33	7,100
	(FD)			0.019			28	7,100
PC-149	05/07/14	1589.04		0.017			14	4,100
	08/15/14	1589.28		0.0061			19	4,100
	12/05/14	1589.72		0.015			18	4,100
	02/27/15	1589.41		0.011			18	4,300
	05/21/15	1589.42		0.0090			13	4,400

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2014 - June 2015
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-150	05/07/14	1588.72		0.20			140	6,100
	08/15/14	1588.95		0.19			160	6,600
	(FD)			0.20			170	6,700
	11/13/14	1590.27		0.21			170	6,000
	12/01/14						170	6,200
	01/05/15						200	6,400
	01/16/15	1591.41						
	02/02/15			0.29			160	6,400
	02/03/15	1586.74						
	03/03/15						230	6,200
	03/10/15	1586.54						
	04/06/15						210	6,100
	04/17/15	1586.79						
	05/04/15			0.29			220	6,000
	05/28/15	1585.37						
	06/01/15						190	6,800
	06/09/15	1588.68						
TR-1	05/15/14	1761.64		0.015			<0.0005	690
	05/18/15			0.017			<0.0005	700
TR-2	05/12/14	1726.80		0.029			<0.0005	550
	01/16/15	1726.05						
	05/21/15	1726.02		0.021			<0.0005	580
TR-3	05/15/14	1772.84		0.028			<0.0005	660
	05/18/15			0.035			<0.0005	670
TR-4	05/15/14	1736.74		0.020			<0.0005	610
	01/20/15	1736.55						
	05/18/15	1736.57		0.021			0.00055 J	620
TR-5	05/15/14	1800.27		0.015			<0.0005	730
	05/18/15			0.016			<0.0005	740
TR-6	05/13/14	1763.12		0.031			0.35	26,000
	05/18/15	1764.01		0.032			0.41	24,000
TR-7	05/14/14	1818.63		0.012			<0.0005	800
	01/12/15	1819.51						
	05/18/15	1819.76		0.014			<0.0005	780
TR-8	05/14/14	1779.30		0.014			0.10	1,200
	05/18/15	1779.28						
	05/19/15			0.017			0.077	1,200
TR-9	05/13/14	1818.48		0.013			0.0060	820
	01/14/15	1819.55						
	06/10/15	1820.07		0.013			0.018	800
TR-10	05/13/14	1792.43		0.12			2.7	2,400
	06/10/15	1791.04		0.13			3.3	2,400
TR-11	05/15/14	1732.64		0.012			<0.0005	720
	05/21/15			0.015			<0.0005	710
TR-12	05/19/14	1695.71		0.044			<0.0005	530

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
TR-12	05/21/15	1695.76		0.042			<0.0005	540

Notes:
FD = field duplicate
ft amsl = feet above mean sea level
J = Concentration is estimated
J- = Estimated concentration, potential negative bias
J+ = Estimated concentration, potential positive bias
mg/L = milligrams per liter
< = Concentration is less than indicated laboratory method reporting limit
UJ = Concentration is estimated and less than indicated laboratory method reporting limit

TABLE A-2: SUPPLEMENTAL DATA USED IN PREPARATION OF THE 2015 ANNUAL REPORT

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)
AA-01	TIMET	--	NA	10	<67	--	--	19
AA-08	AMPAC	1567.34	0.8	NA	NA	3.3	3,966	6.7
AA-09	TIMET	1657.16	NA	100	210 J	6.6 J-	6,500	NA
AA-10	AMPAC	1594.35	0.5	NA	NA	2	3,960	6.7
AA-20	TIMET	1596.92	NA	30	90 J	3.8 J-	6,100	8.9
AA-21	AMPAC	1573.2	<0.036	NA	NA	0.049	4,879	8.2
AA-27	TIMET	1721.64	NA	20	<67	0.17	4,300	14
AA-BW-03A	OSSM	1702.34	NA	NA	<2.5	<0.0005	8,300	NA
AA-BW-09A	OSSM	1716.09	NA	NA	NA	NA	NA	NA
AA-MW-05	OSSM	1797.64	NA	NA	7.5	0.075	2,400	NA
AA-MW-13R	OSSM	1773.11	NA	NA	4.3 J	0.23	78,000	NA
AA-MW-25	OSSM	1748.14	NA	NA	NA	NA	NA	NA
AA-UW1	TIMET	1722.8	NA	10	<67	0.52	4,200	5.4
AAX-15	AMPAC	1626.93	0.12	NA	NA	0.27	3,536	5.3
ACX-16	AMPAC	1670.05	15	NA	NA	62	4,584	24
ACY-15	AMPAC	1690.35	0.46	NA	NA	1.4	3,422	5
ADX-112	AMPAC	1745.2	0.65	NA	NA	3	969	0.99
ADX-135	AMPAC	1727.4	7.7	NA	NA	30	1,079	1.2
ADX-156	AMPAC	1728.9	9.4	NA	NA	38	1,015	1.6
ADY-166	AMPAC	1732.8	0.012	NA	NA	0.009	988	0.91
ADY-36	AMPAC	1735.55	18	NA	NA	180	5,087	41
ADY-70	AMPAC	1735.3	2.9	NA	NA	14	1,261	2.1
ADYX-165	AMPAC	1736.61	< 0.012	NA	NA	0.01	974	0.87
ADYX-38	AMPAC	1738.77	19	NA	NA	94	5,540	47
AEX-166	AMPAC	1695.45	0.33	NA	NA	1.4	960	0.88
AEX-35	AMPAC	1744.8	46	NA	NA	89	2,540	11
AFX-148	AMPAC	1749.38	< 0.012	NA	NA	0.058	957	0.88
AFX-195	AMPAC	1753.08	< 0.012	NA	NA	0.006	982	0.91
AFX-30	AMPAC	1763.68	5.7	NA	NA	9.6	2,006	7.1
AFX-75	AMPAC	1761.06	< 0.012	NA	NA	0.006	988	0.88
AGX-160	AMPAC	1728.65	< 0.012	NA	NA	< 0.0013	953	0.77
AGX-190	AMPAC	1733.71	< 0.012	NA	NA	< 0.0013	948	0.85
AGX-230	AMPAC	1750.32	< 0.012	NA	NA	< 0.0013	974	0.91
AGX-50	AMPAC	1712.21	0.11	NA	NA	0.24	952	1
AGX-90	AMPAC/OSSM	1717.86	< 0.012	NA	13	0.00053 J	730	0.95
AK-145	AMPAC	1736.02	< 0.012	NA	NA	< 0.0013	970	0.88
AK-204	AMPAC	1774.8	< 0.012	NA	NA	< 0.0013	991	0.83
AK-25	AMPAC	1710.44	15	NA	NA	69	5,141	27
AK-86	AMPAC	1714.65	0.08	NA	NA	0.76	968	1
AMEW-1	AMPAC	1706.15	81	NA	NA	250	2,571	11

TABLE A-2: SUPPLEMENTAL DATA USED IN PREPARATION OF THE 2015 ANNUAL REPORT

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)
AMEW-2	AMPAC	1635.52	76	NA	NA	370	3,173	19
AMEW-3	AMPAC	1625.01	35	NA	NA	120	1,592	3
AMEW-4	AMPAC	1669.56	37	NA	NA	130	1,653	4.9
AMEW-5	AMPAC	1634.23	30	NA	NA	110	1,491	2
AMOW-3-165	AMPAC	1710.13	< 0.012	NA	NA	0.057	974	0.94
AMOW-3-52	AMPAC	1744.05	10	NA	NA	53	2,456	14
AMX-166	AMPAC	1779.58	< 0.012	NA	NA	< 0.0013	983	0.84
AMX-40	AMPAC	1729	12	NA	NA	44	4,699	20
AMX-98	AMPAC	1740.65	< 0.012	NA	NA	0.016	758	1.1
APEW-2	AMPAC	1601.45	2.5	NA	NA	11	3,800	9.1
APEW-3	AMPAC	1598.6	8.6	NA	NA	54	4,802	18
APX-1-45	AMPAC	1606.9	< 0.012	NA	NA	< 0.0026	2,253	0.34
APX-2-45	AMPAC	1603	< 0.012	NA	NA	0.069	2,109	0.42
APX-2-P1O1	AMPAC	1603.1	0.89	NA	NA	3.7	3,844	7.1
APX-4-20	AMPAC	1606.75	4.4	NA	NA	26	3,946	11
APX-5-16	AMPAC	1605.5	9	NA	NA	57	4,972	19
APX-5-7	AMPAC	1606	10	NA	NA	58	4,733	19
APX-7-14	AMPAC	1606.15	0.18	NA	NA	0.36	4,057	5.8
AREW-1	AMPAC	1616.19	0.35	NA	NA	0.83	3,920	6.8
AREW-2	AMPAC	1610.4	0.46	NA	NA	1.1	3,840	6.2
AREW-3	AMPAC	1612.97	0.52	NA	NA	1.5	3,809	7.1
AREW-4	AMPAC	1608.28	1.3	NA	NA	4.6	3,552	7.9
AREW-5	AMPAC	1611.14	3.6	NA	NA	15	3,335	9.4
AREW-6	AMPAC	1605.56	11	NA	NA	44	4,239	16
B-01	OSSM	1767.91	NA	NA	NA	NA	NA	NA
BHE1-10	AMPAC	1669.5	350	NA	NA	240	5,358	40
BRW-R1	TIMET	1797.39	NA	30	<67	0.21 J	8,400 J	14 J
CLD4-R	TIMET	1743.37	NA	200 J-	320 J+	1.8	4,600	9.3 J-
CMT-101	TIMET	1724.77	NA	140	340	1.5	6,000	11
CP-1	OSSM	1796.03	NA	NA	NA	NA	NA	NA
CSMMW-1	TIMET	1767.12	NA	NA	NA	NA	NA	NA
CSMMW-2	TIMET	1761.55	NA	NA	NA	NA	NA	NA
DBMW-1	TIMET	1590.36	NA	60	94 J	7.6	6,000	NA
DBMW-3	TIMET	NA	NA	70	110 J	8.4	8,300	NA
DM-1	TIMET	1679.63	NA	50	70 J	0.4	4,400	NA
DMC-MW-26	OSSM	1820.67	NA	NA	NA	NA	NA	NA
DMC-MW-27R	OSSM	1820.6	NA	NA	NA	NA	NA	NA
DMC-MW-28	OSSM	1788.44	NA	NA	NA	NA	NA	NA
DPT-01	OSSM	1772.01	NA	NA	NA	NA	NA	NA
DX-121	AMPAC	1763.7	7.4	NA	NA	32	672	1.6

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Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)
DX-161	AMPAC	1768.15	24	NA	NA	100	1,369	4.7
DX-24	AMPAC	1808.37	21	NA	NA	110	6,712	110
DX-270	AMPAC	1817	0.32	NA	NA	1.2	974	0.86
DX-30	AMPAC	1803.1	21	NA	NA	110	4,764	32
DX-350	AMPAC	1830.7	0.88	NA	NA	3.1	1,014	0.87
DX-75	AMPAC	1806.06	39	NA	NA	150	1,479	4.1
DY-106	AMPAC	1787.45	< 0.012	NA	NA	< 0.0026	976	0.93
DY-169	AMPAC	1768.6	0.04	NA	NA	0.25	987	0.9
DY-26	AMPAC	1778.25	16	NA	NA	77	5,409	23
DZ-15	AMPAC	1816.56	1.1	NA	NA	5.2	2,322	9.2
DZ-152	AMPAC	1813.38	31	NA	NA	87	2,836	13
EC-10	OSSM	1750.06	NA	NA	9.4	43	1,800	NA
EC-14	OSSM	1753.84	NA	NA	17	0.00051	710	NA
EC-3	OSSM	NA	NA	NA	1.6 J	0.0021	11,000	NA
EC-4	OSSM	1766.6	NA	NA	8.9	0.17	3,100	NA
EC-7	OSSM	NA	NA	NA	1.2 J	0.0031	9,700	NA
E-N	OSSM	1685.79	NA	NA	NA	NA	NA	NA
E-S	OSSM	1687.3	NA	NA	NA	NA	NA	NA
EWQAL-1	TIMET	1711.66	NA	440	920	18 J-	5,800	18
EWQAL-10	TIMET	1725.6	NA	40	86 J	0.79 J-	5,700	46 J-
EWQAL-11	TIMET	1725.86	NA	30	<67	0.8 J-	5,400	31
EWQAL-12	TIMET	1724.83	NA	20	<67	0.95 J-	5,000	14
EWQAL-13A	TIMET	1728.11	NA	20	<67	1.3 J-	5,000	11
EWQAL-14	TIMET	1724.24	NA	30	<67	1.4 J-	4,500	15
EWQAL-15	TIMET	1724.64	NA	30	<67	1.5 J-	4,700	20
EWQAL-16	TIMET	1728.31	NA	20	<67	1.9 J-	4,900	15
EWQAL-17	TIMET	1737.02	NA	<10	<67	0.004 J	4,200	<0.008
EWQAL-18	TIMET	1738.24	NA	<10	<67	0.018 J-	3,800	<0.008
EWQAL-19	TIMET	1740.35	NA	<10	<67	0.15 J-	3,400	0.018 J
EWQAL-2	TIMET	1717.49	NA	290	500	8.8 J-	6,600	18
EWQAL-3	TIMET	1718.22	NA	310	450	2.5 J-	11,000	51
EWQAL-4	TIMET	1716.35	NA	360	570	2.6 J-	17,000	83
EWQAL-5	TIMET	1716.52	NA	300	430	1.9 J-	14,000	56
EWQAL-6	TIMET	1720.17	NA	230 J-	310	2.8 J-	10,000	25
EWQAL-7	TIMET	1721.91	NA	160	240	2.6 J-	10,000	21
EWQAL-8	TIMET	1723.52	NA	130	140 J	2.3 J-	8,200	17
EWQAL-9	TIMET	1726	NA	70	100 J	1.4 J-	6,000	25
F3-27	AMPAC	1783.2	24	NA	NA	45	5,259	16
F3-90	AMPAC	1792.8	< 0.012	NA	NA	< 0.0013	963	0.9
FX-180	AMPAC	NR	< 0.012	NA	NA	< 0.0013	1,014	0.8

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Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)
FX-25	AMPAC	1727.1	3.1	NA	NA	11	2,478	6.8
FX-415	AMPAC	NR	< 0.012	NA	NA	< 0.0013	729	0.0025
H-10A	OSSM	1672.69	NA	NA	NA	NA	NA	NA
H-11	OSSM	1800.2	NA	NA	<2.5	0.0046	1,000	NA
H-14	OSSM	1696.06	NA	NA	NA	NA	NA	NA
H-18A	OSSM	1697.78	NA	NA	NA	NA	NA	NA
H-19	OSSM	1699.38	NA	NA	NA	NA	NA	NA
H-21R	OSSM	1698.7	NA	NA	NA	NA	NA	NA
H-25	OSSM	1695.12	NA	NA	NA	NA	NA	NA
H-28	OSSM	1693.65	NA	NA	NA	NA	NA	NA
H-36C	OSSM	1686.66	NA	NA	NA	NA	NA	NA
H-49A	OSSM	1660.71	NA	NA	NA	NA	NA	NA
H-54	OSSM	1685.48	NA	NA	NA	NA	NA	NA
H-55	OSSM	1710.83	NA	NA	0.8	0.016	1,600	NA
H-56A	OSSM	NA	NA	NA	0.31 J	28	6,600	NA
H-57	OSSM	1685.9	NA	NA	NA	NA	NA	NA
J2D1-R2	TIMET	1732.40	NA	60	80 J	1.6	5,400	11
J2D2-R2	TIMET	1730.40	NA	70	120 J	0.84 J	7,600 J	46 J+
J2D4	TIMET	1737.01	NA	150	180 J	2.9	7,700	27
J2U1	TIMET	1749.09	NA	NA	NA	NA	NA	NA
J2U2	TIMET	1752.16	NA	50	<67	0.43 J	4,700	37 J
JX-11	AMPAC	1656.13	9.6	NA	NA	69	4,308	11
JX-86	AMPAC	1654.47	< 0.012	NA	NA	0.005	1,143	0.7
KX-18	AMPAC	1633.9	5.1	NA	NA	20	3,355	11
KY-23	AMPAC	1624.8	4.5	NA	NA	19	3,242	10
LX-150	AMPAC	1867.3	0.02	NA	NA	0.042	2,679	6.7
LX-55	AMPAC	1865	0.02	NA	NA	0.072	3,056	4.3
M-129	TIMET	1718.88	NA	850	1,100	75 J	6,200	13 J
M-130	TIMET	1723.19	NA	NA	NA	NA	NA	NA
MC-100	OSSM	1686.68	NA	NA	NA	NA	NA	NA
MC-101	OSSM	1685.97	NA	NA	NA	NA	NA	NA
MC-102	OSSM	1685.77	NA	NA	NA	NA	NA	NA
MC-103	OSSM	1690.69	NA	NA	NA	NA	NA	NA
MC-104	OSSM	1686.94	NA	NA	NA	NA	NA	NA
MC-107	OSSM	1688.11	NA	NA	NA	NA	NA	NA
MC-108	OSSM	1688.35	NA	NA	NA	NA	NA	NA
MC-109	OSSM	1686.34	NA	NA	NA	NA	NA	NA
MC-110	OSSM	1686.86	NA	NA	NA	NA	NA	NA
MC-111	OSSM	1687.69	NA	NA	0.44 J	20	7,500	NA
MC-113	OSSM	1679.56	NA	NA	3.4	<0.0005	15,000	NA

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Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)
MC-114	OSSM	1678.57	NA	NA	5.5	0.079	17,000	NA
MC-116	OSSM	1692.77	NA	NA	NA	NA	NA	NA
MC-118	OSSM	1690.7	NA	NA	NA	NA	NA	NA
MC-119	OSSM	1689.04	NA	NA	NA	NA	NA	NA
MC-120	OSSM	1689.77	NA	NA	NA	NA	NA	NA
MC-121	OSSM	1685.61	NA	NA	NA	NA	NA	NA
MC-122	OSSM	1685.7	NA	NA	NA	NA	NA	NA
MC-123	OSSM	1686.5	NA	NA	NA	NA	NA	NA
MC-124	OSSM	1689.6	NA	NA	NA	NA	NA	NA
MC-125	OSSM	1689.79	NA	NA	NA	NA	NA	NA
MC-126	OSSM	1685.98	NA	NA	NA	NA	NA	NA
MC-127	OSSM	1688.19	NA	NA	NA	NA	NA	NA
MC-128	OSSM	1690.41	NA	NA	NA	NA	NA	NA
MC-129	OSSM	1689.94	NA	NA	NA	NA	NA	NA
MC-130	OSSM	1687.46	NA	NA	NA	NA	NA	NA
MC-132	OSSM	1688.33	NA	NA	NA	NA	NA	NA
MC-133	OSSM	1685.89	NA	NA	NA	NA	NA	NA
MC-134	OSSM	1684.43	NA	NA	NA	NA	NA	NA
MC-135	OSSM	1685.2	NA	NA	NA	NA	NA	NA
MC-136	OSSM	1685.44	NA	NA	NA	NA	NA	NA
MC-137	OSSM	1685.77	NA	NA	NA	NA	NA	NA
MC-138	OSSM	1686.21	NA	NA	NA	NA	NA	NA
MC-139	OSSM	1687.21	NA	NA	NA	NA	NA	NA
MC-22	OSSM	1691.88	NA	NA	NA	NA	NA	NA
MC-24	OSSM	1689.99	NA	NA	NA	NA	NA	NA
MC-25	OSSM	1687.85	NA	NA	NA	NA	NA	NA
MC-26	OSSM	1688.14	NA	NA	NA	NA	NA	NA
MC-27	OSSM	1685.51	NA	NA	NA	NA	NA	NA
MC-28	OSSM	1685.56	NA	NA	NA	NA	NA	NA
MC-30	OSSM	1686.27	NA	NA	NA	NA	NA	NA
MC-31	OSSM	DRY	NA	NA	NA	NA	NA	NA
MC-32	OSSM	DRY	NA	NA	NA	NA	NA	NA
MC-33	OSSM	1696.17	NA	NA	NA	NA	NA	NA
MC-37	OSSM	1691.29	NA	NA	NA	NA	NA	NA
MC-38	OSSM	1690.72	NA	NA	NA	NA	NA	NA
MC-40	OSSM	1685.88	NA	NA	NA	NA	NA	NA
MC-41	OSSM	1685.83	NA	NA	NA	NA	NA	NA
MC-42	OSSM	1685.57	NA	NA	NA	NA	NA	NA
MC-47	OSSM	1676.46	NA	NA	2.9	18	4,000	NA
MC-48	OSSM	1679.29	NA	NA	<2.5	0.00061 J	16,000	NA

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Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)
MC-49	OSSM	1680.27	NA	NA	<2.5	<0.0005	15,000	NA
MC-5	OSSM	1686.21	NA	NA	NA	NA	NA	NA
MC-50	OSSM	--	NA	NA	0.57	--	--	NA
MC-52	OSSM	1683.71	NA	NA	NA	NA	NA	NA
MC-55	OSSM	DRY	NA	NA	NA	NA	NA	NA
MC-56	OSSM	1685.25	NA	NA	NA	NA	NA	NA
MC-58	OSSM	1683.8	NA	NA	NA	NA	NA	NA
MC-59	OSSM	DRY	NA	NA	NA	NA	NA	NA
MC-60	OSSM	DRY	NA	NA	NA	NA	NA	NA
MC-61	OSSM	1672.84	NA	NA	NA	NA	NA	NA
MC-68	OSSM	1685.87	NA	NA	NA	NA	NA	NA
MC-70	OSSM	DRY	NA	NA	NA	NA	NA	NA
MC-73	OSSM	DRY	NA	NA	NA	NA	NA	NA
MC-77	OSSM	1694.52	NA	NA	NA	NA	NA	NA
MC-78	OSSM	1693.4	NA	NA	NA	NA	NA	NA
MC-8	OSSM	1693.57	NA	NA	NA	NA	NA	NA
MC-81	OSSM	1696.76	NA	NA	NA	NA	NA	NA
MC-83	OSSM	1691.96	NA	NA	NA	NA	NA	NA
MC-84	OSSM	1692.51	NA	NA	NA	NA	NA	NA
MC-87	OSSM	1685.65	NA	NA	NA	NA	NA	NA
MC-89	OSSM	1688.61	NA	NA	NA	NA	NA	NA
MC-90	OSSM	1683.97	NA	NA	NA	NA	NA	NA
MC-92	OSSM	1684.32	NA	NA	NA	NA	NA	NA
MC-94	OSSM	1685.67	NA	NA	NA	NA	NA	NA
MC-95	OSSM	1685.16	NA	NA	NA	NA	NA	NA
MC-96	OSSM	1684.84	NA	NA	NA	NA	NA	NA
MC-98	OSSM	1685.99	NA	NA	NA	NA	NA	NA
MC-9R	OSSM	1685.15	NA	NA	NA	NA	NA	NA
MCF-BW-09B	OSSM	1716.99	NA	NA	NA	NA	NA	NA
MCF-BW-10A	OSSM	1736.24	NA	NA	8.5	5.8	1,600	NA
MC-MW-10	OSSM	1748	NA	NA	NA	NA	NA	NA
MC-MW-29	OSSM	1685.23	NA	NA	NA	NA	NA	NA
MC-MW-30	OSSM	1689.65	NA	NA	NA	NA	NA	NA
MC-MW-31	OSSM	1686.26	NA	NA	NA	NA	NA	NA
MC-MW-32	OSSM	1691.32	NA	NA	1.1	15	6,500	NA
MC-MW-33	OSSM	1687.51	NA	NA	NA	NA	NA	NA
MC-MW-34	OSSM	1689.15	NA	NA	NA	NA	NA	NA
MC-MW-35	OSSM	1693.04	NA	NA	16	0.00091	700	NA
MC-MW-36	OSSM	1673.25	NA	NA	2.9	<0.0005	1,900	NA
MC-MW-37	OSSM	1671.6	NA	NA	NA	NA	NA	NA

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Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)
MC-MW-38	OSSM	1679.64	NA	NA	5.5	<0.0005	5,200	NA
MW-1	OSSM	1797.19	NA	NA	11	0.00057	770	NA
MW-2	OSSM	1782.64	NA	NA	<2	0.00025 J	6,900	NA
MW-3	OSSM	1782.51	NA	NA	<2	0.15	9,300	NA
MW-4	OSSM	1782.99	NA	NA	5.6	0.073	3,500	NA
MW-8	OSSM	1814.03	NA	NA	NA	NA	NA	NA
MW-AA	AMPAC	1639.37	0.27	NA	NA	0.14	2,965	6.9
MW-AB	AMPAC	1663.15	0.35	NA	NA	0.89	3,771	5.8
MW-AC	AMPAC	1686.2	2.5	NA	NA	9.4	3,261	3.4
MW-AD	AMPAC	1777.6	9.5	NA	NA	23	2,326	7.7
MW-AHX	AMPAC	1701.3	9	NA	NA	22	1,283	3.1
MW-AJ	AMPAC/OSSM	1641.55	13	NA	0.29 J	62	4,600	10
MW-AL	AMPAC	1846.65	0.03	NA	NA	0.14	325	0.61
MW-AX-72	AMPAC	1847.55	0.47	NA	NA	21	3,329	12
MW-C	AMPAC	1821.65	17	NA	NA	23	1,468	5.6
MW-D2D	AMPAC	1811.74	89	NA	NA	430	5,157	81
MW-D2S	AMPAC	1811.64	32	NA	NA	160	NA[2]	58
MW-E	AMPAC	1839.4	0.09	NA	NA	0.038	1,891	3.1
MW-F2	AMPAC	1752.85	8.5	NA	NA	36	5,130	15
MW-I	AMPAC	1842.54	0.07	NA	NA	0.15	1,970	7.7
MW-K	AMPAC	1651.05	0.74	NA	NA	2.6	2,951	3.3
MW-K1	AMPAC	1625.25	< 0.024	NA	NA	0.52	NA[2]	< 0.0025
MW-K4	AMPAC	--	80	NA	--	--	--	6.1
MW-R	AMPAC/OSSM	1655.2	18	NA	0.27 J	74	4,300	11
MW-S	AMPAC	1582.1	3.2	NA	NA	20	6,572	6.3
MW-T	AMPAC	1575.58	0.43	NA	NA	1.1	3,404	4.1
MW-U	AMPAC	NM	0.15	NA	NA	0.14	4,019	8.2
MW-V	AMPAC	1579.15	0.09	NA	NA	0.17	NA[2]	7.1
MW-X	AMPAC	1809.7	0.12	NA	NA	0.23	2,202	2.8
NX-17	AMPAC	1624.92	0.23	NA	NA	0.75	4,036	8
NY-15	AMPAC	1629	0.28	NA	NA	0.73	4,026	8
OLD WELL-E	OSSM	1685.33	NA	NA	NA	NA	NA	NA
OLD WELL-H	OSSM	1685.91	NA	NA	NA	NA	NA	NA
OX-16	AMPAC	1618.35	0.39	NA	NA	1	3,914	5.8
OY-8	AMPAC	1616.6	0.24	NA	NA	0.71	4,041	7.2
PC-107	AMPAC	--	8.3	NA	NA	--	--	20
PC-124	TIMET	--	--	100	--	--	--	--
PC-127	TIMET	--	NA	870	--	--	--	NA
PC-130	TIMET	--	--	800	--	--	--	--
PC-54	TIMET	--	NA	850	--	--	--	37 J

TABLE A-2: SUPPLEMENTAL DATA USED IN PREPARATION OF THE 2015 ANNUAL REPORT

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)
PC-64	TIMET	--	NA	1,800	--	--	--	NA
PC-65	TIMET	--	NA	390	--	--	--	NA
PC-66	TIMET	--	NA	1,600	--	--	--	NA
PC-67	TIMET	--	NA	300	--	--	--	38
PMW-1	AMPAC	1571.66	0.16	NA	NA	0.31	3,663	6.1
PMW-2	AMPAC	1572.12	0.23	NA	NA	0.58	3,398	6.2
PMW-3	AMPAC	1571.5	0.21	NA	NA	0.42	3,506	6.9
PMW-4	AMPAC	1571.2	0.06	NA	NA	0.17	3,679	3.5
PMW-5	AMPAC	1570.85	1.1	NA	NA	3.9	3,179	5.5
PMW-6	AMPAC	1570.55	0.64	NA	NA	2.2	3,393	5.1
PMW-7	AMPAC	1568.82	0.09	NA	NA	0.067	4,605	9.3
PMW-8	AMPAC	1567.76	0.09	NA	NA	0.1	4,545	9.1
POD2-R	TIMET	1609.67	NA	NA	NA	NA	NA	NA
POD-8	TIMET	1620.49	NA	10	<67	0.3	4,800	NA
PWX-10	AMPAC	1572.1	0.14	NA	NA	0.17	3,855	1.5
PWX-8	AMPAC	1572.2	0.16	NA	NA	0.28	3,616	7.1
PX-15	AMPAC	1613.69	6.2	NA	NA	31	3,611	10
PX-40	AMPAC	1613.44	0.22	NA	NA	1.1	1,560	0.55
PY-14	AMPAC	1612.73	6.5	NA	NA	31	3,674	12
RIT-10	AMPAC	1568.65	0.34	NA	NA	1.1	3,471	6.5
RIT-6	AMPAC	1569.16	0.79	NA	NA	2.8	3,185	4.6
RIT-9	AMPAC	1569.92	1.1	NA	NA	3.9	3,039	5.7
SB-1-8	AMPAC	1587.4	0.24	NA	NA	0.14	3,494	8.9
SB-3-13	AMPAC	1598.7	0.26	NA	NA	0.18	NA[2]	13
SBMW-4-4	AMPAC	1606.8	0.34	NA	NA	0.1	3,343	8.2
SWMW-1	TIMET	1719.22	NA	NA	NA	NA	NA	NA
SWMW-1AR	TIMET	1710.18	NA	NA	NA	NA	NA	NA
SWMW-2	TIMET	1727.49	NA	NA	NA	NA	NA	NA
SWMW-2A	TIMET	1715.14	NA	NA	NA	NA	NA	NA
SWMW-3	TIMET	1731.28	NA	NA	NA	NA	NA	NA
SWMW-3A	TIMET	1717.95	NA	NA	NA	NA	NA	NA
TIMETMW-1	TIMET	1754.96	NA	70	<67	0.25	4,400	38
TIMETMW-3R	TIMET	1785.40	NA	20 J-	<67	0.35	4,300	6.6 J-
TIMETMW-4	TIMET	1748.91	NA	20	<67	0.17 J	3,400 J	3.4 J
TIMETMW-5	TIMET	1761.25	NA	20	<67	0.62	4,200	12
TIMETMW-6R	TIMET	1766.92	NA	70	120 J	1.5	3,200	4.8 J-
TMMW-101	TIMET	1808.14	NA	NA	NA	NA	NA	NA
TMMW-102	TIMET	1817.99	NA	<10	<67	0.048	1,200	0.81
TMMW-103	TIMET	1817.01	NA	NA	NA	NA	NA	NA
TMMW-104	TIMET	1817.36	NA	<10 J	<67	0.004	7,400	1.6

TABLE A-2: SUPPLEMENTAL DATA USED IN PREPARATION OF THE 2015 ANNUAL REPORT

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)
TMPZ-112	TIMET	1737.56	NA	60 J-	<67	0.11	5,000 J	5.1
TMPZ-201	TIMET	1724.89	NA	NA	NA	NA	NA	NA
TMW-1	OSSM	1689.61	NA	NA	NA	NA	NA	NA
TMW-2	OSSM	1690.41	NA	NA	NA	NA	NA	NA
TMW-3	OSSM	1686.17	NA	NA	NA	NA	NA	NA
TMW-4	OSSM	1686.23	NA	NA	NA	NA	NA	NA
TR-11	OSSM	1729.83	NA	NA	--	--	--	NA
TWA-180	AMPAC	1654.61	< 0.012	NA	NA	< 0.0052	2,460	< 0.0025
TWA-20	AMPAC	1650	2.9	NA	NA	11	3,418	9.3
TWA-50	AMPAC	1648.65	< 0.012	NA	NA	< 0.0013	1,211	0.32
TWB-140	AMPAC	1639.45	0.91	NA	NA	4.7	2,280	1.4
TWB-21	AMPAC	1641.2	13	NA	NA	79	4,843	24
TWB-36	AMPAC	1640.85	< 0.024	NA	NA	3.5	4,524	< 0.0025
TWB-51	AMPAC	1640.5	<0.012	NA	NA	4.6	2,366	3.7
TWBX-21	AMPAC	1641.8	14	NA	NA	73	4,881	22
TWBX-36	AMPAC	1641.8	7	NA	NA	48	4,702	17
TWBY-21	AMPAC	1640.85	13	NA	NA	80	4,697	23
TWBY-36	AMPAC	1640.3	< 0.012	NA	NA	4.3	5,158	3.3
TWC-126	AMPAC	1637.95	< 0.012	NA	NA	< 0.0026	2,076	0.11
TWC-15	AMPAC	1637.86	14	NA	NA	70	4,630	23
TWC-27	AMPAC	1637.81	< 0.012	NA	NA	3.3	3,585	0.76
TWC-35	AMPAC	1637.85	< 0.012	NA	NA	0.19	1,924	0.4
TWC-48	AMPAC	1637.85	< 0.012	NA	NA	0.048	1,390	0.21
TWD1-17	AMPAC	1648.9	13	NA	NA	71	4,593	21
TWD4-15	AMPAC	1648.83	12	NA	NA	72	4,627	22
TWE-107	AMPAC	1624.8	< 0.012	NA	NA	< 0.0013	1,303	0.17
TWE-15	AMPAC	1624.25	8.6	NA	NA	46	4,820	16
TWE-18	AMPAC	1624.3	8.9	NA	NA	47	4,769	15
TWE-33	AMPAC	1624.65	< 0.012	NA	NA	< 0.0013	1,413	0.11
TWE-51	AMPAC	1624.6	0.029	NA	NA	0.075	1,286	0.29
TWH-14	AMPAC	1629.56	17	NA	NA	47	4,920	16
TWI	AMPAC	1641.85	13	NA	NA	60	4,704	18
UB4-15	AMPAC	1573.1	0.13	NA	NA	0.12	3,899	8.9
UD-2	AMPAC	1572.65	0.11	NA	NA	0.11	5,170	8.2
UWO-16	AMPAC	1571.7	1.1	NA	NA	4.4	3,157	4.7
UXO-16	AMPAC	1570.8	0.22	NA	NA	0.6	3,556	7.8
UYO-16	AMPAC	1570.3	1.1	NA	NA	4	3,086	5
UZO-17	AMPAC	1569.7	0.51	NA	NA	2	3,348	4.6
WELL-A	OSSM	1692.87	NA	NA	NA	NA	NA	NA
WELL-B	OSSM	1692.19	NA	NA	NA	NA	NA	NA

TABLE A-2: SUPPLEMENTAL DATA USED IN PREPARATION OF THE 2015 ANNUAL REPORT

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)
WELL-C	OSSM	1690.48	NA	NA	NA	NA	NA	NA
WELL-D	OSSM	1686.31	NA	NA	NA	NA	NA	NA
WELL-D2	OSSM	1679.86	NA	NA	NA	NA	NA	NA
WELL-E3	OSSM	1681.08	NA	NA	NA	NA	NA	NA
WELL-F	OSSM	1680.8	NA	NA	NA	NA	NA	NA
WELL-G	OSSM	1678.74	NA	NA	NA	NA	NA	NA
WELL-H2	OSSM	1680.67	NA	NA	NA	NA	NA	NA
WELL-I	OSSM	1685.79	NA	NA	NA	NA	NA	NA
WELL-J	OSSM	1685.15	NA	NA	NA	NA	NA	NA
WELL-K2	OSSM	1682.26	NA	NA	NA	NA	NA	NA
WELL-L	OSSM	1680.61	NA	NA	NA	NA	NA	NA
WELL-M	OSSM	1686.82	NA	NA	NA	NA	NA	NA
WELL-M2	OSSM	1683.5	NA	NA	NA	NA	NA	NA
WELL-N	OSSM	1686.47	NA	NA	NA	NA	NA	NA
WELL-O	OSSM	1680.68	NA	NA	NA	NA	NA	NA
WELL-P	OSSM	1678.8	NA	NA	NA	NA	NA	NA
WELL-Q	OSSM	1684.12	NA	NA	NA	NA	NA	NA
WELL-R	OSSM	1686.4	NA	NA	NA	NA	NA	NA
WMW5.7N	SNWA	NA	NA	NA	<15	0.037	1,520	8.7
WMW6.15S	SNWA	1538.45	NA	NA	<15	0.6	2,390	0.08
WMW6.55S	SNWA	1545.42	NA	NA	<15	1.9	3,970	5.1
WMW6.9N	SNWA	NA	NA	NA	<15	0.00015	3,040	3.4
WMW6.9S	SNWA	NA	NA	NA	<15	0.032	5,630	2.8
WMW7.8N	SNWA	NA	NA	NA	<15	0.0005	1,550	8.8
W-S	OSSM	1693.72	NA	NA	NA	NA	NA	NA
WS1-14	AMPAC	1703.87	2.8	NA	NA	12	2,948	6.6
WS2-15	AMPAC	1697.18	10	NA	NA	39	3,633	13
WS4-11	AMPAC	1693.54	5.4	NA	NA	24	3,348	2.3
WS5-10	AMPAC	1712.76	1.3	NA	NA	4.7	2,723	5.1
WS5-40	AMPAC	1712.66	1.2	NA	NA	4.3	2,475	3.2
WS5-80	AMPAC	1714.1	< 0.012	NA	NA	< 0.0013	887	0.81
ZX-11	AMPAC	1728.6	0.35	NA	NA	0.69	3,288	4.8
ZX-45	AMPAC	1725.45	0.13	NA	NA	0.37	1,922	2
ZY-11	AMPAC	1740.55	0.21	NA	NA	0.37	3,353	4.8

Notes:

Data in this table have been provided by others. Ramboll Environ and the Trust have not independently verified these data.

mg/L = milligrams per liter

µg/L = micrograms per liter

AMPAC = American Pacific Corporation

TABLE A-2: SUPPLEMENTAL DATA USED IN PREPARATION OF THE 2015 ANNUAL REPORT

Nevada Environmental Response Trust Site

Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (µg/L)	Chromium (µg/L)	Perchlorate (mg/L)	TDS[1] (mg/L)	Nitrate (as N) (mg/L)

OSSM = Olin Chlor-Alkali/Stauffer/Syngenta/Montrose

SNWA = Southern Nevada Water Authority

TIMET = Titanium Metals Corporation

NA = Not analyzed

NR = Not recorded

NM = Not measured

-- = Result is available from the NERT site sampling and is presented in Table A-1

mg/L = milligrams per liter

ft amsl = feet above mean sea level

< = Concentration is less than indicated laboratory method reporting limit

J = Concentration is estimated

J- = Estimated concentration, potential negative bias

J+ = Estimated concentration, potential positive bias

[1] AMPAC's TDS results were converted from field specific conductivity measurements using a conversion factor of 0.707.

[2] Specific Conductivity was analzed, but results were beyond the field instrument's range.

APPENDIX B
WELL DATA SHEETS

Well Data Sheets

Data summary sheets for individual extraction and monitoring wells are provided in Appendix B. The data sheets show key well performance indicators for all wells, including water levels, perchlorate concentrations and chromium concentrations over the period 1999-2015. Additional key well performance indicators are shown for the extraction wells, including flow rates, specific capacity, mass removal rates, and the average perchlorate and chromium concentrations for the second quarter of 2015. For each extraction well field, the concentration plots for each analyte have identical ranges unless otherwise specified to facilitate comparison wells within a single well field. In addition, the data sheets show well construction details (top of casing, screened interval, Qal/UMCf contact, and the total well depth) for comparison to the groundwater elevations. The well construction details were compiled from the all wells database spreadsheet maintained by NDEP. Construction details for several wells are not plotted due to a lack of key data in the all wells database. All other data shown in the data sheets were from the site database.

Perchlorate and chromium concentration trends, calculated as a monthly average of the data and interpolating where no data were available in a given month, are shown as solid lines. Individual laboratory analytical results are shown with a solid symbol for detected values and an open symbol for non-detected values. Pumping rates are shown as monthly averages from July 2002 through June 2015, compiled into the site database from the operational field spreadsheets. Mass removal rates for perchlorate and chromium were calculated by multiplying the monthly average pumping rate by the monthly average concentration. For the purposes of the mass removal calculations, the monthly average concentration was assumed to be zero for non-detected results. The specific capacity is calculated using the methodology outlined in Appendix B of the 2013 GWETS Optimization Project Report (Attachment A of ENVIRON 2015).

ENVIRON. 2015. Semi-Annual Performance Report for Chromium and Perchlorate, July – December 2014. April 30.

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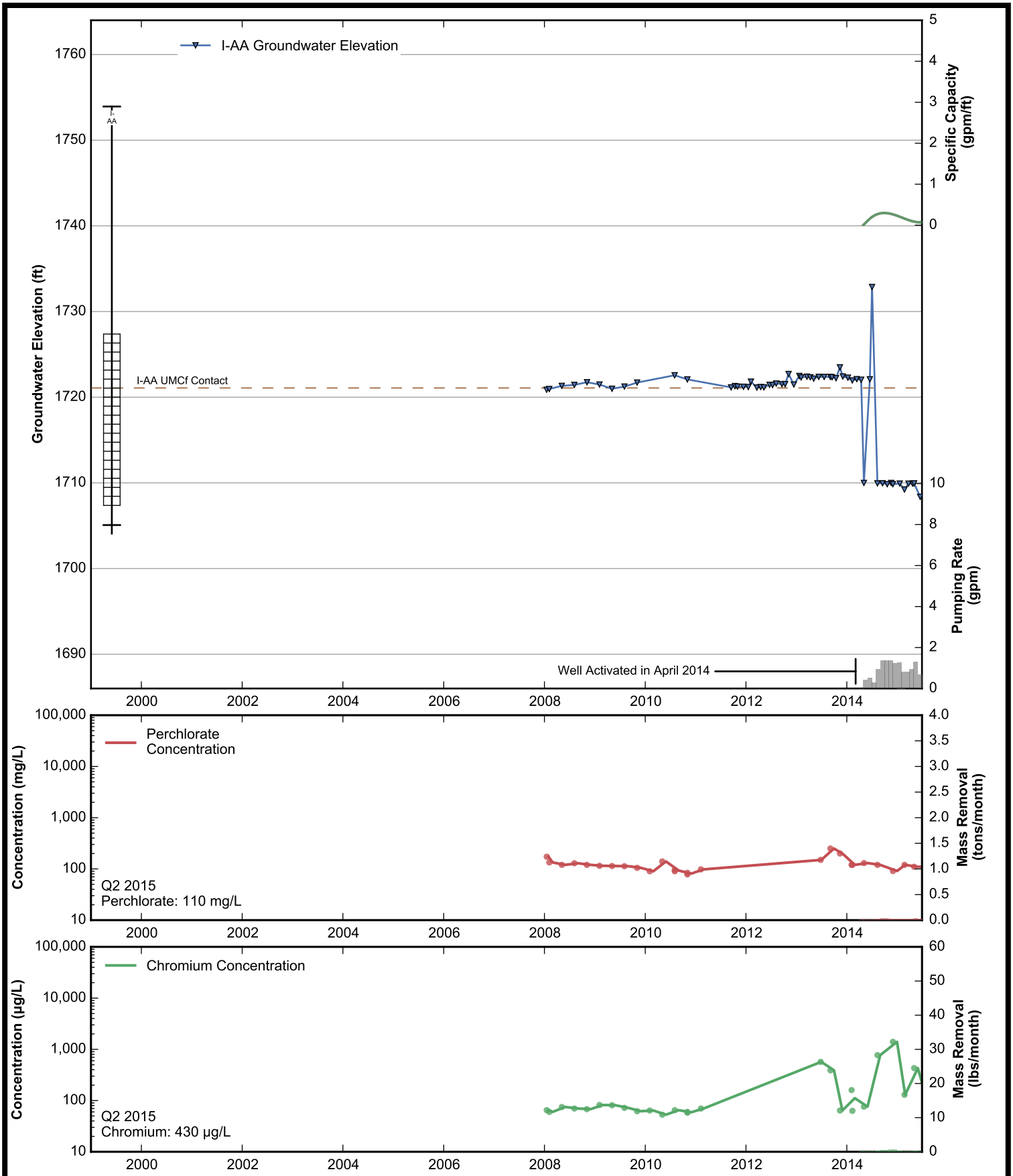

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Data Sheet for Well I-AA
Nevada Environmental Response Trust Site
Henderson, Nevada

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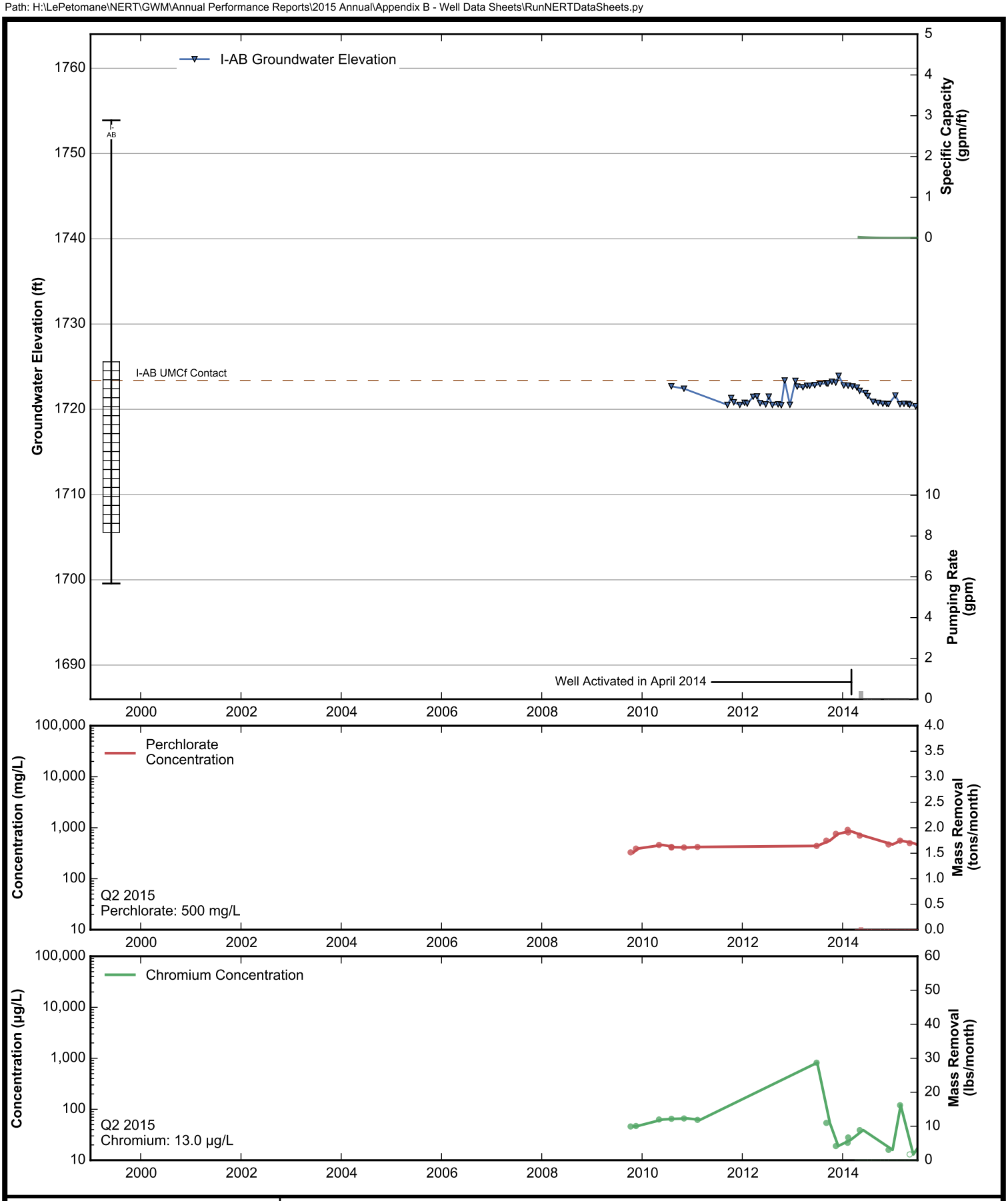

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Data Sheet for Well I-AB
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Henderson, Nevada

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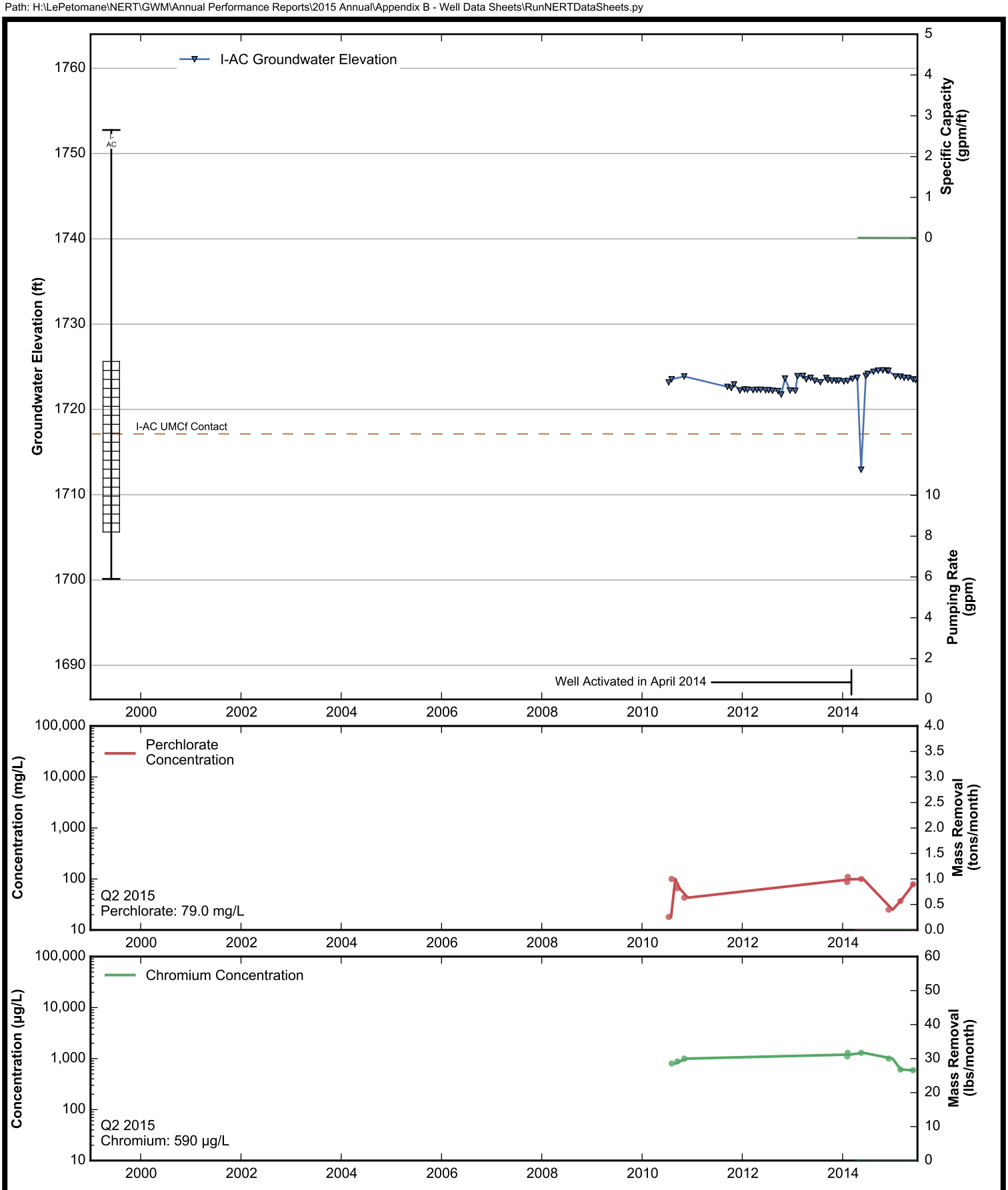

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Data Sheet for Well I-AC
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Henderson, Nevada

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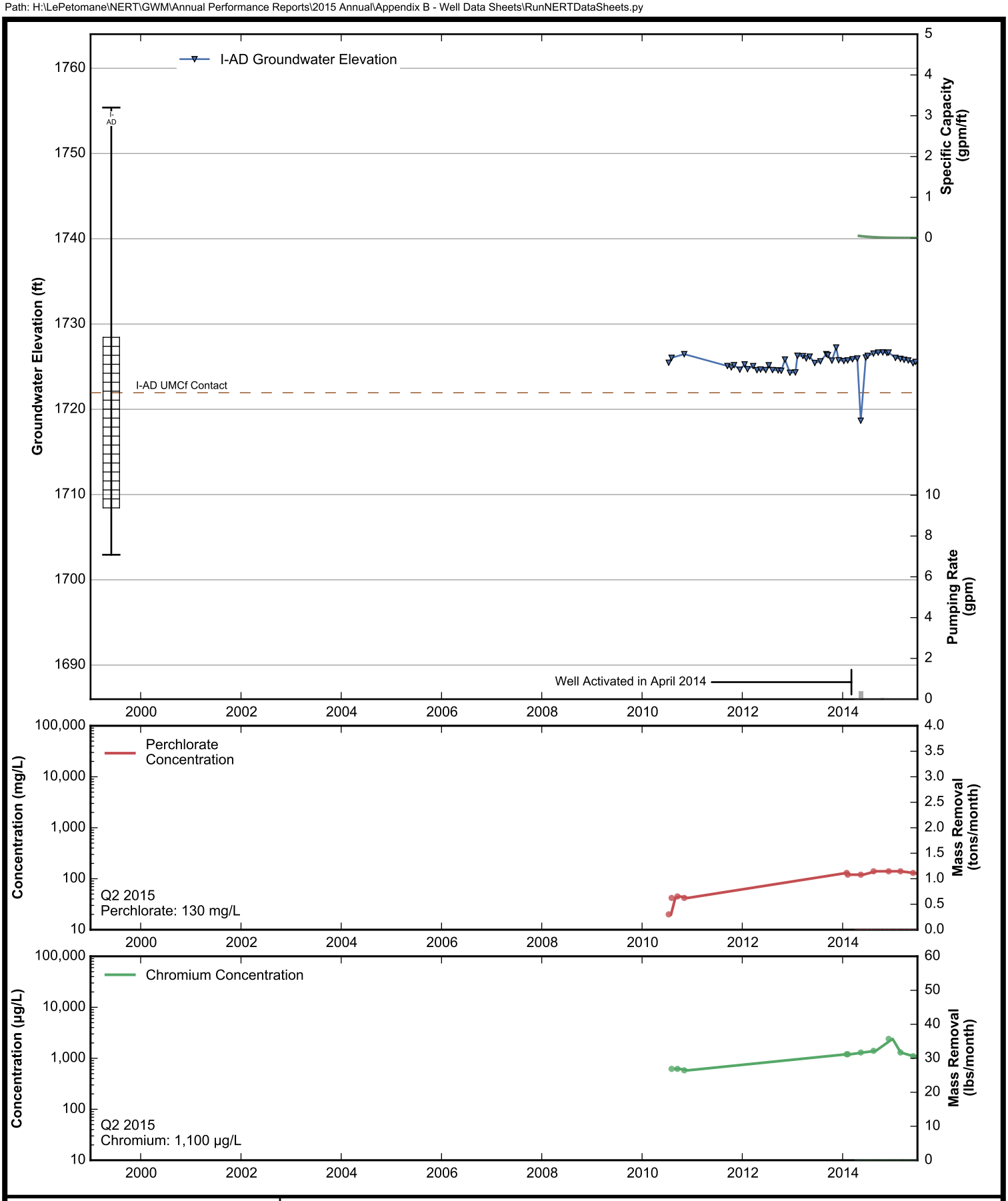

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Data Sheet for Well I-AD
Nevada Environmental Response Trust Site
Henderson, Nevada

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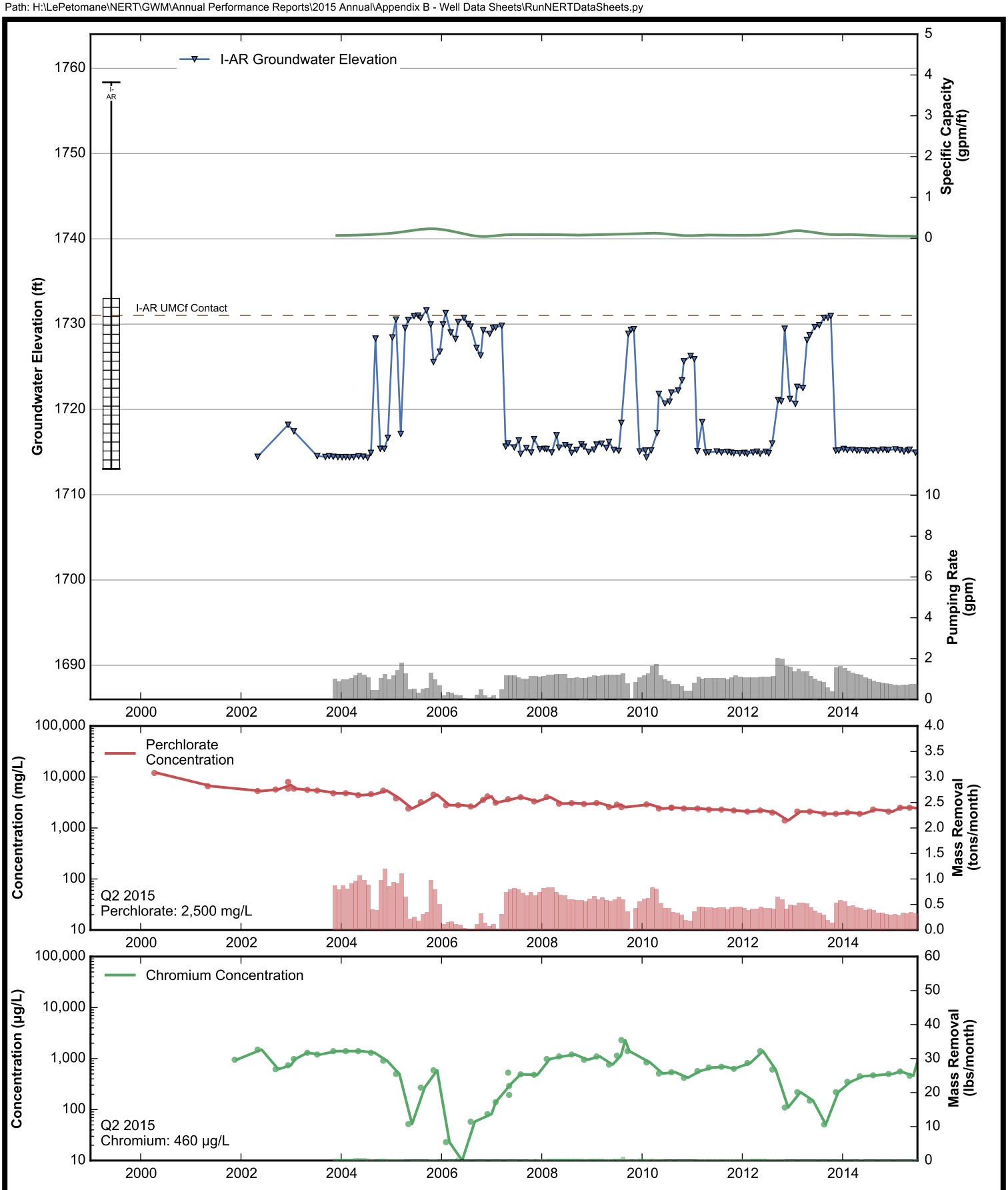

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Data Sheet for Well I-AR
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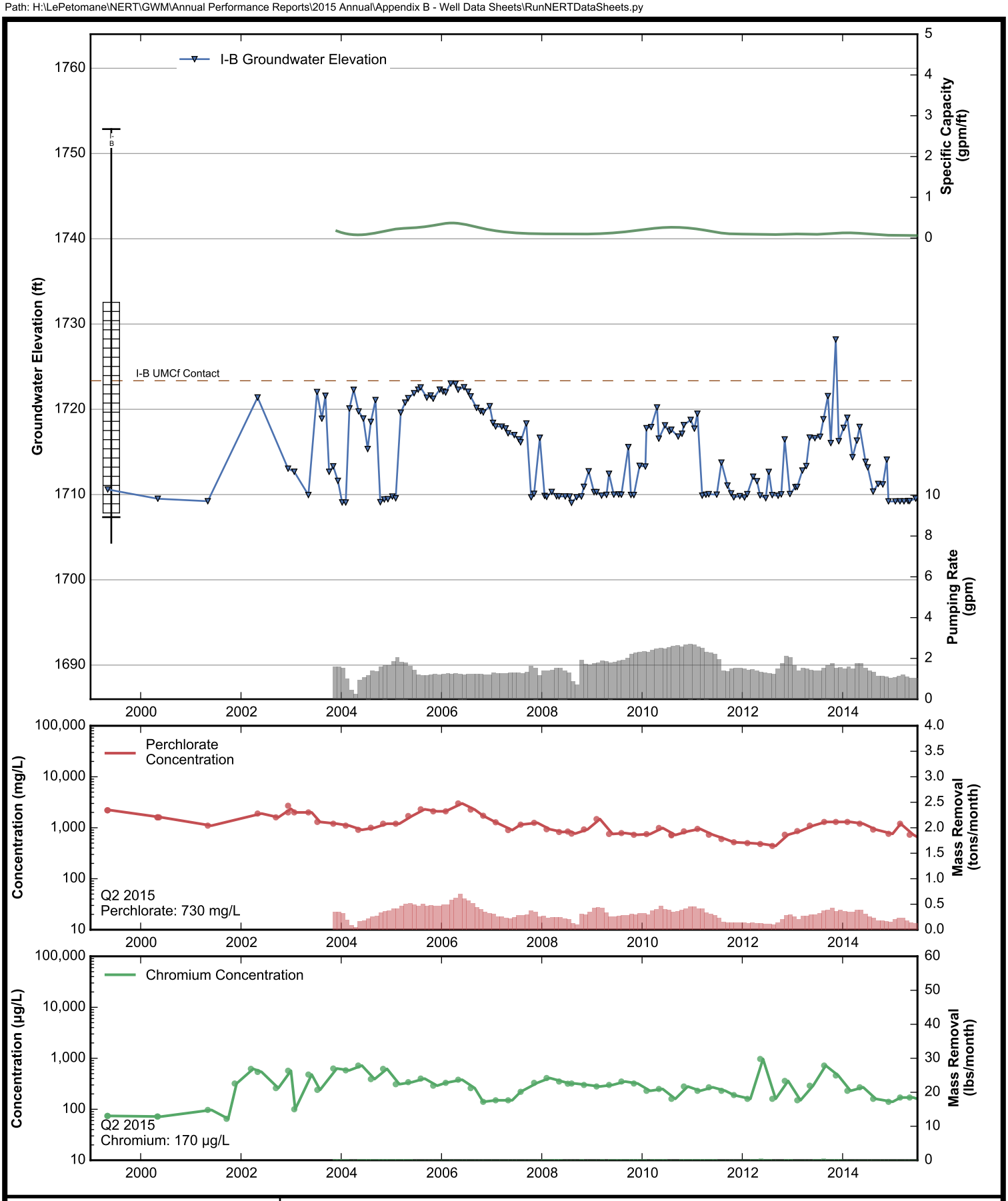

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Data Sheet for Well I-B
Nevada Environmental Response Trust Site
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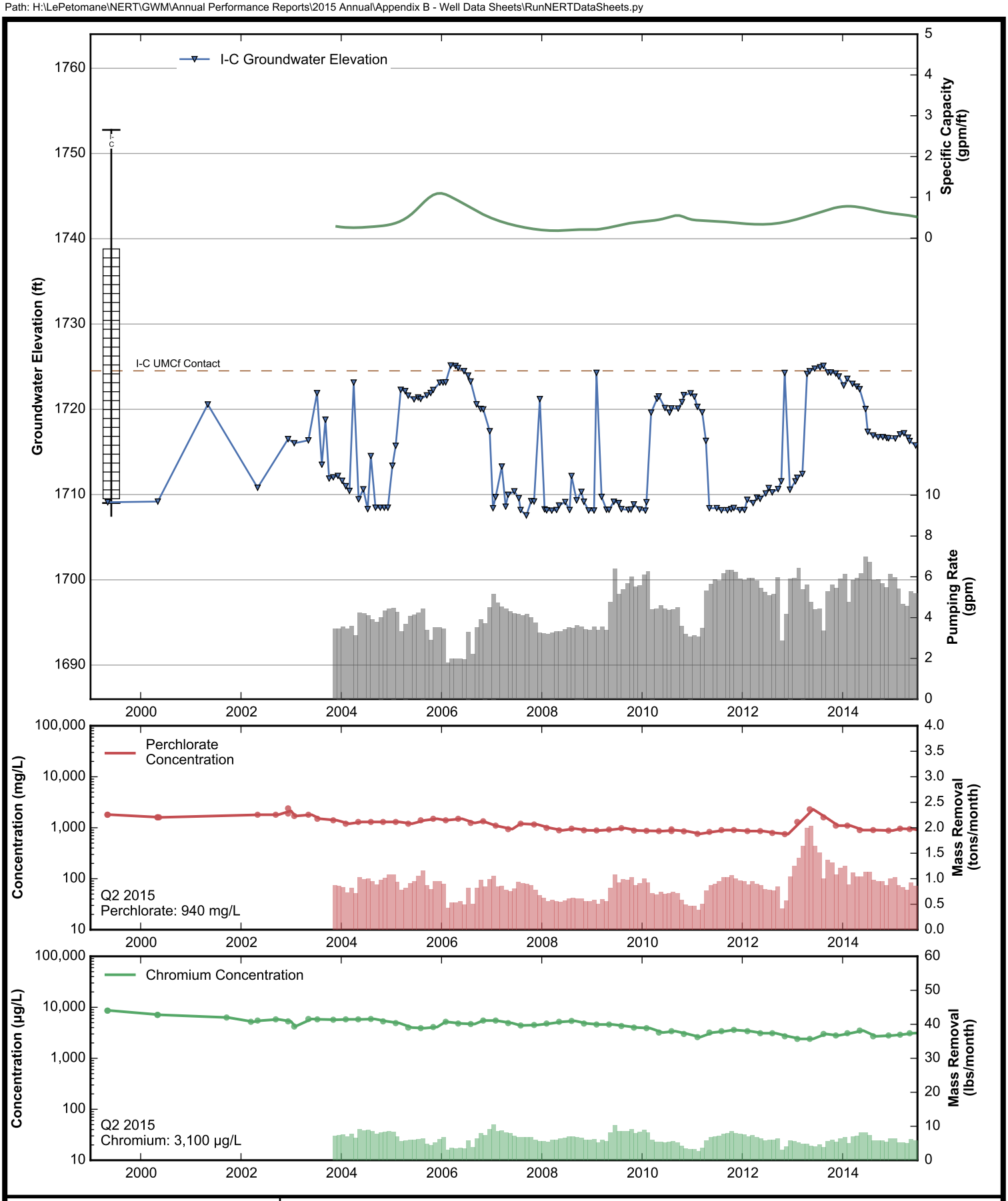

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Data Sheet for Well I-C
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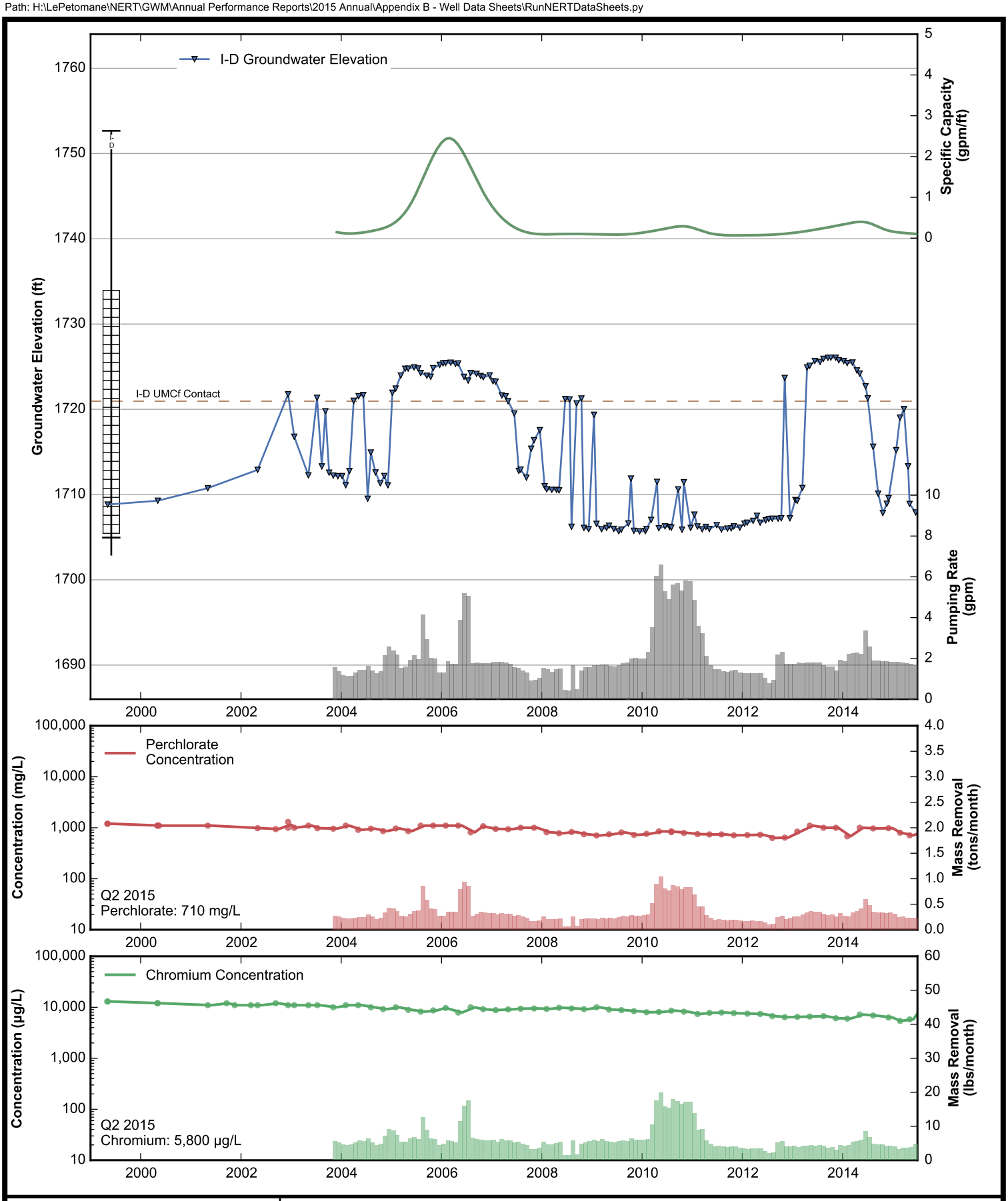

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Data Sheet for Well I-D
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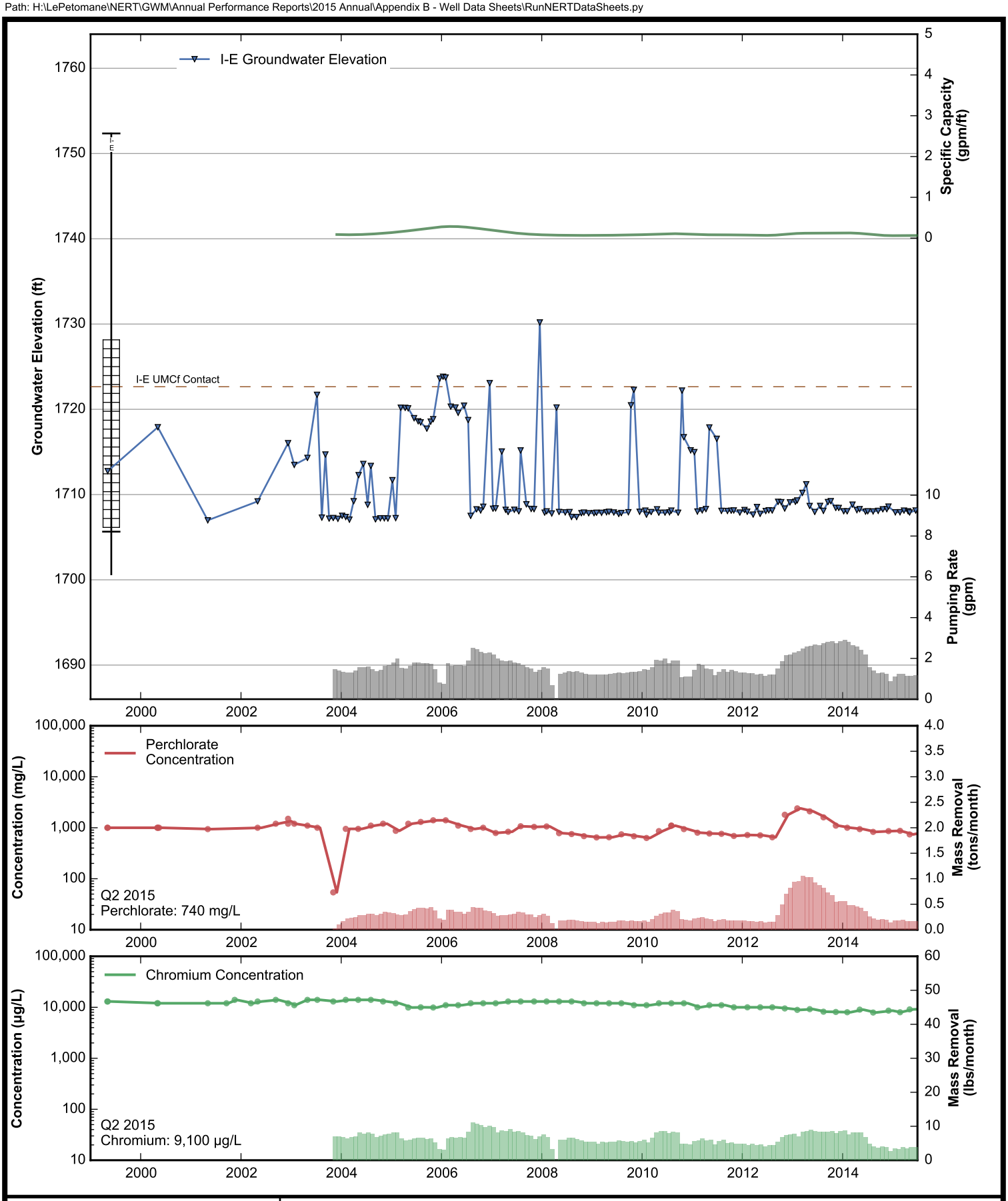

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Data Sheet for Well I-E
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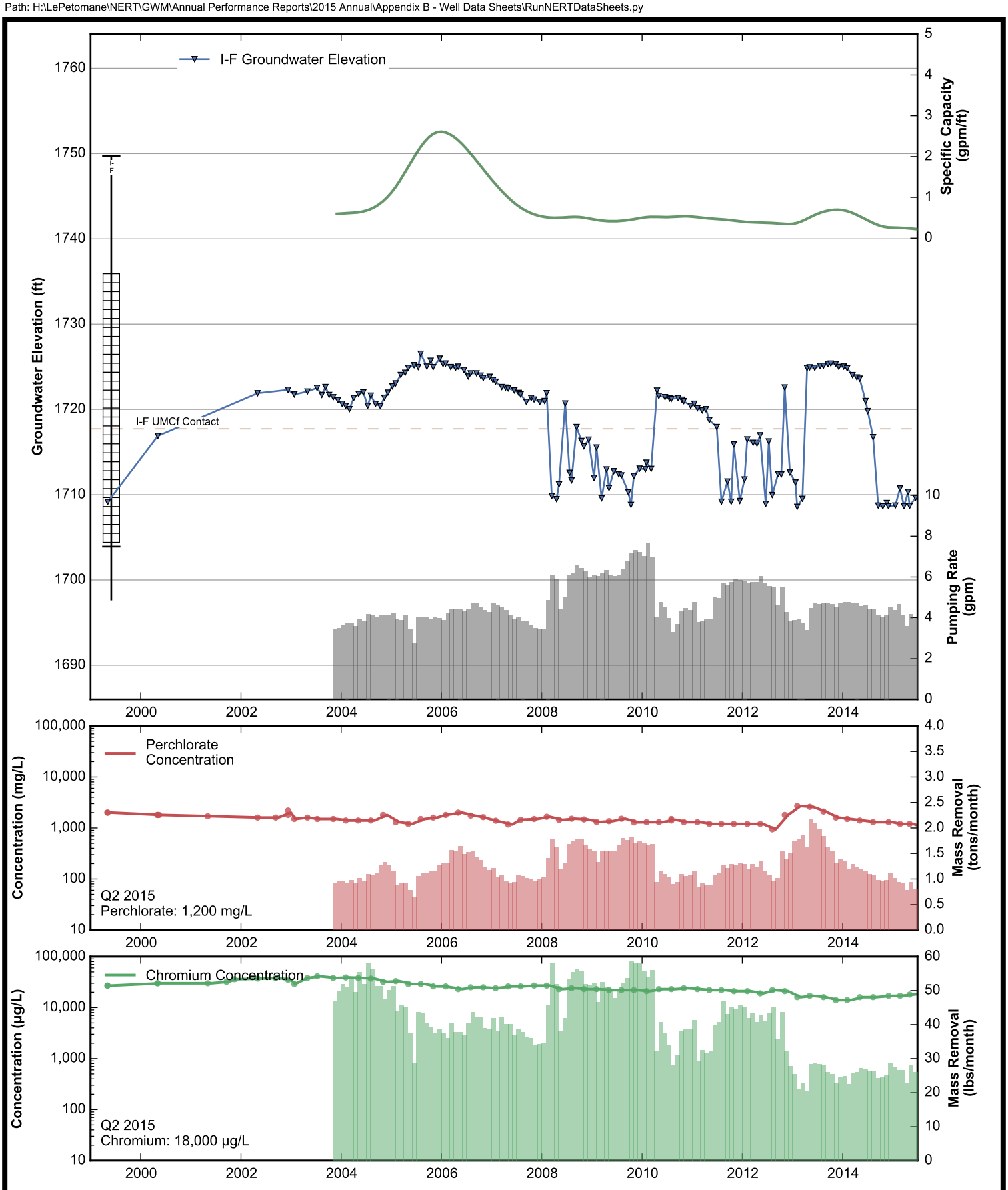

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Data Sheet for Well I-F
Nevada Environmental Response Trust Site
Henderson, Nevada

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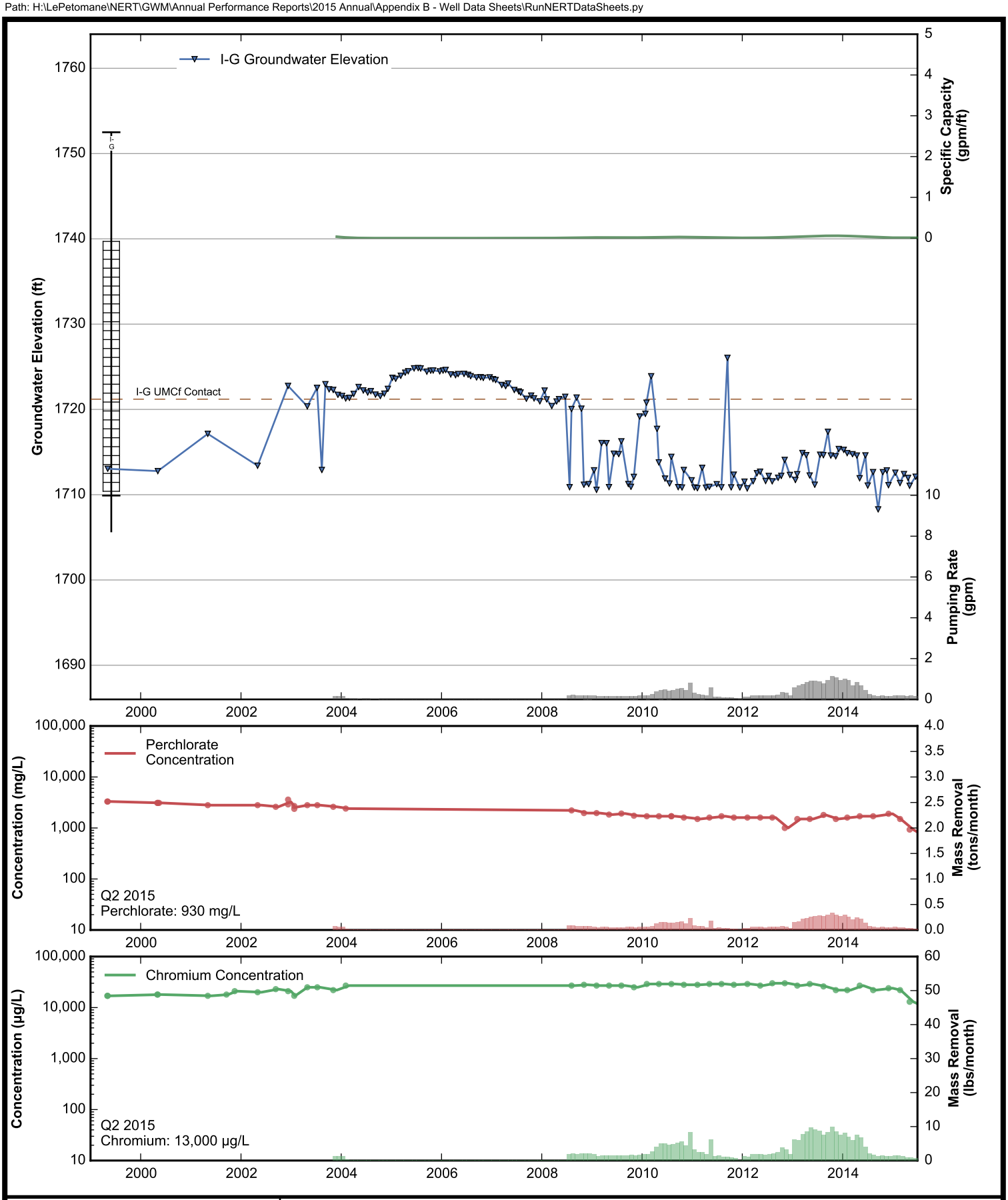

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Data Sheet for Well I-G
Nevada Environmental Response Trust Site
Henderson, Nevada

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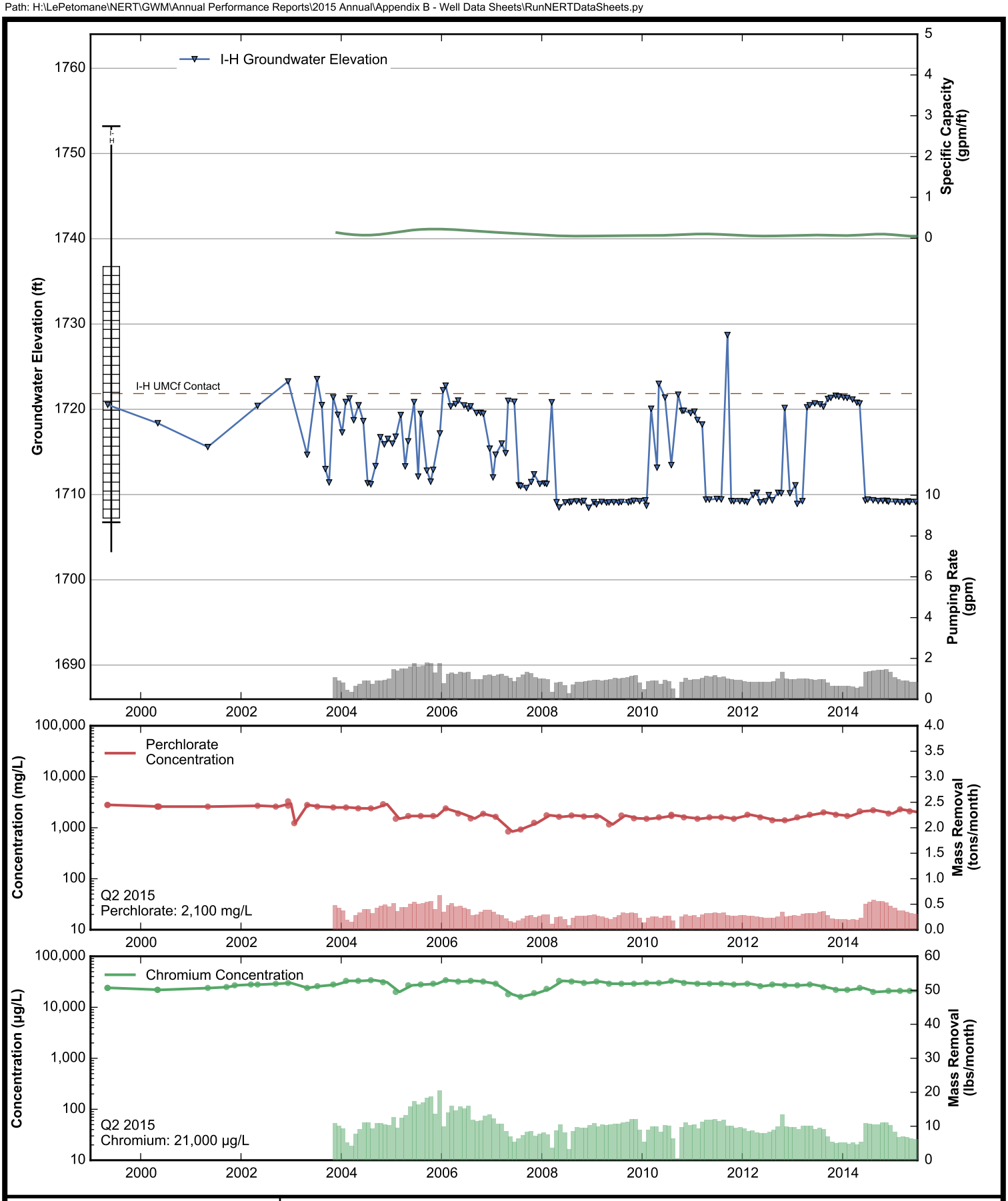

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Data Sheet for Well I-H
Nevada Environmental Response Trust Site
Henderson, Nevada

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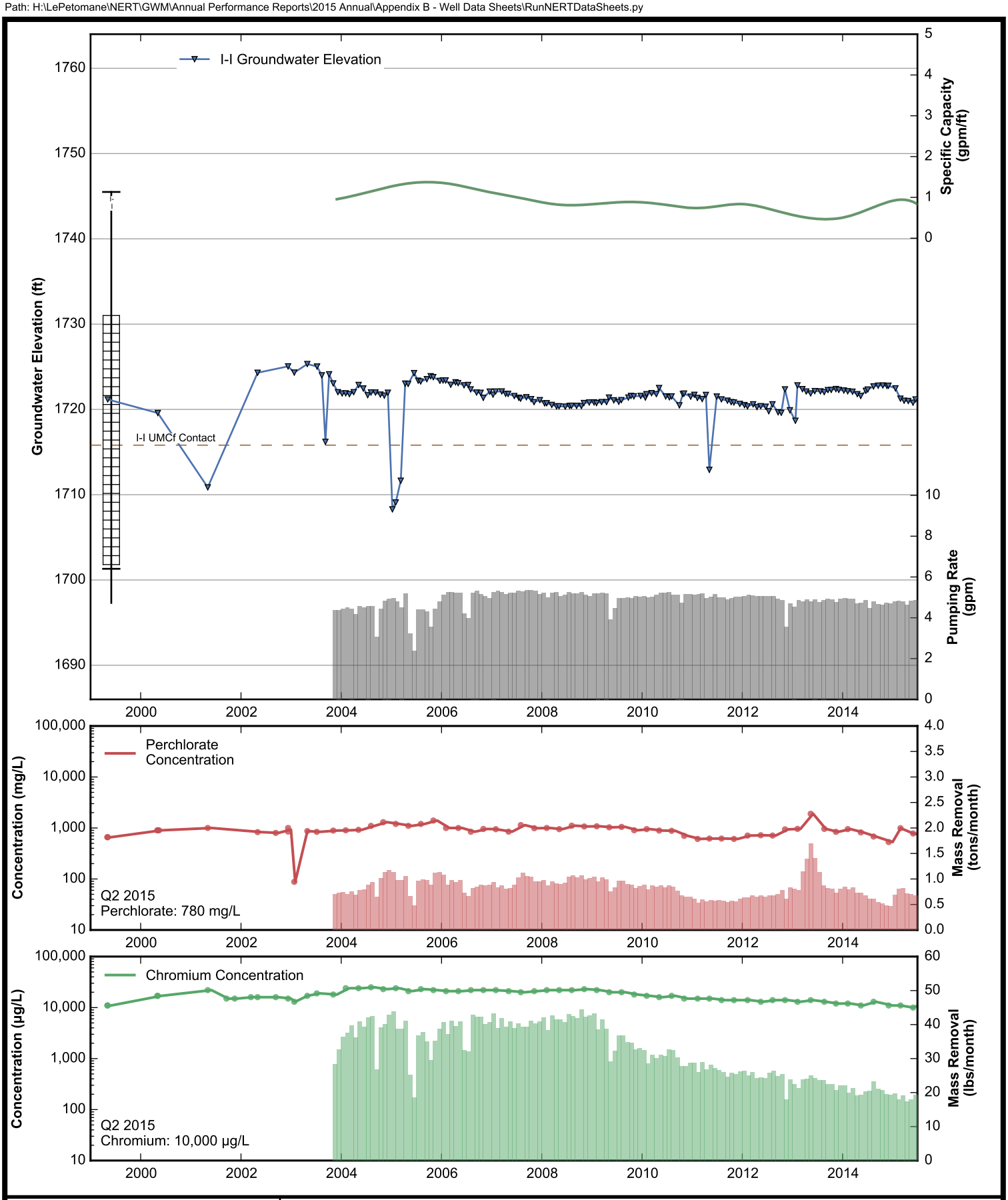

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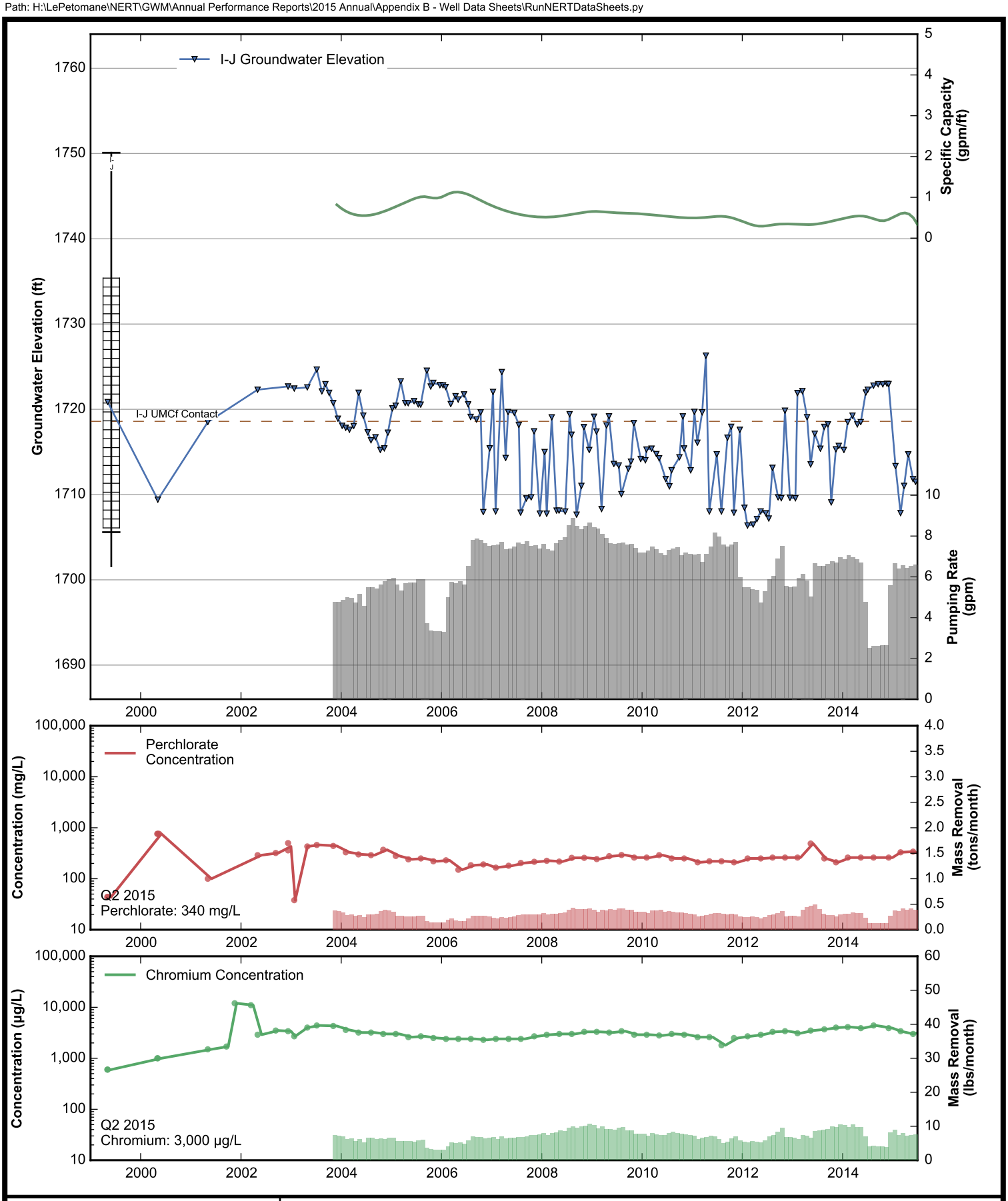
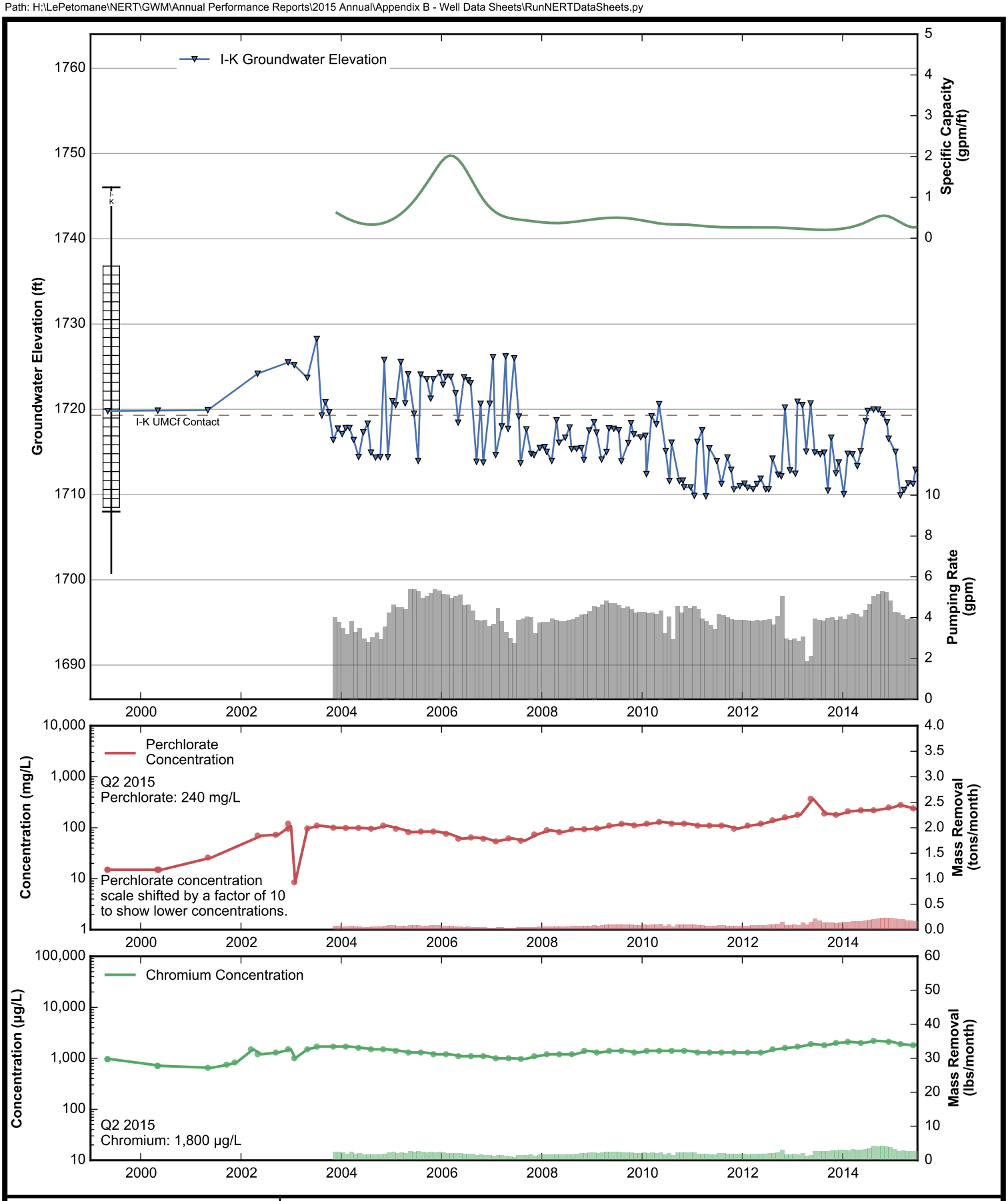


RAMBOLL ENVIRON

Data Sheet for Well I-J
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well I-K
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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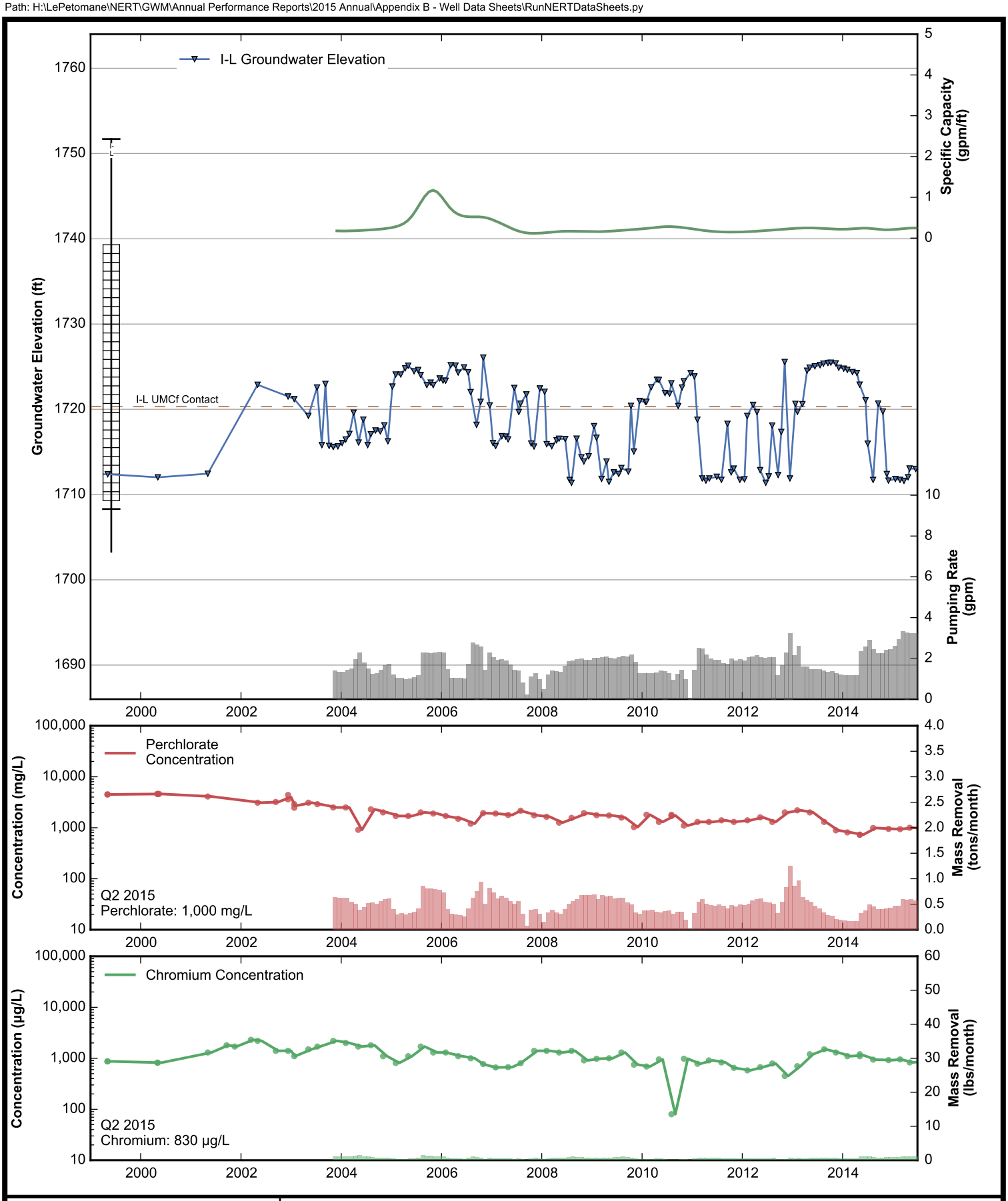

RAMBOLL ENVIRON

Data Sheet for Well I-L
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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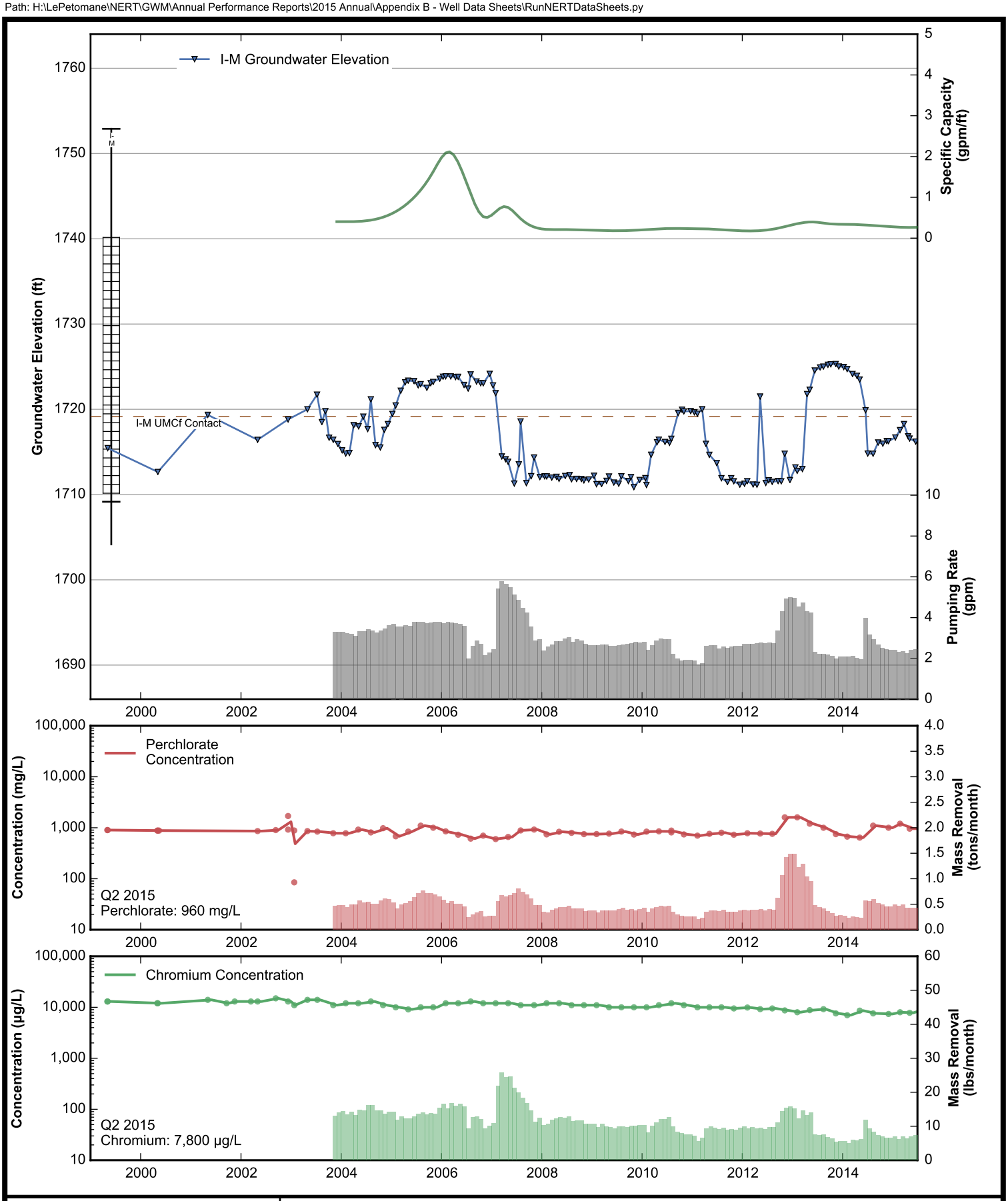

RAMBOLL ENVIRON

Data Sheet for Well I-M
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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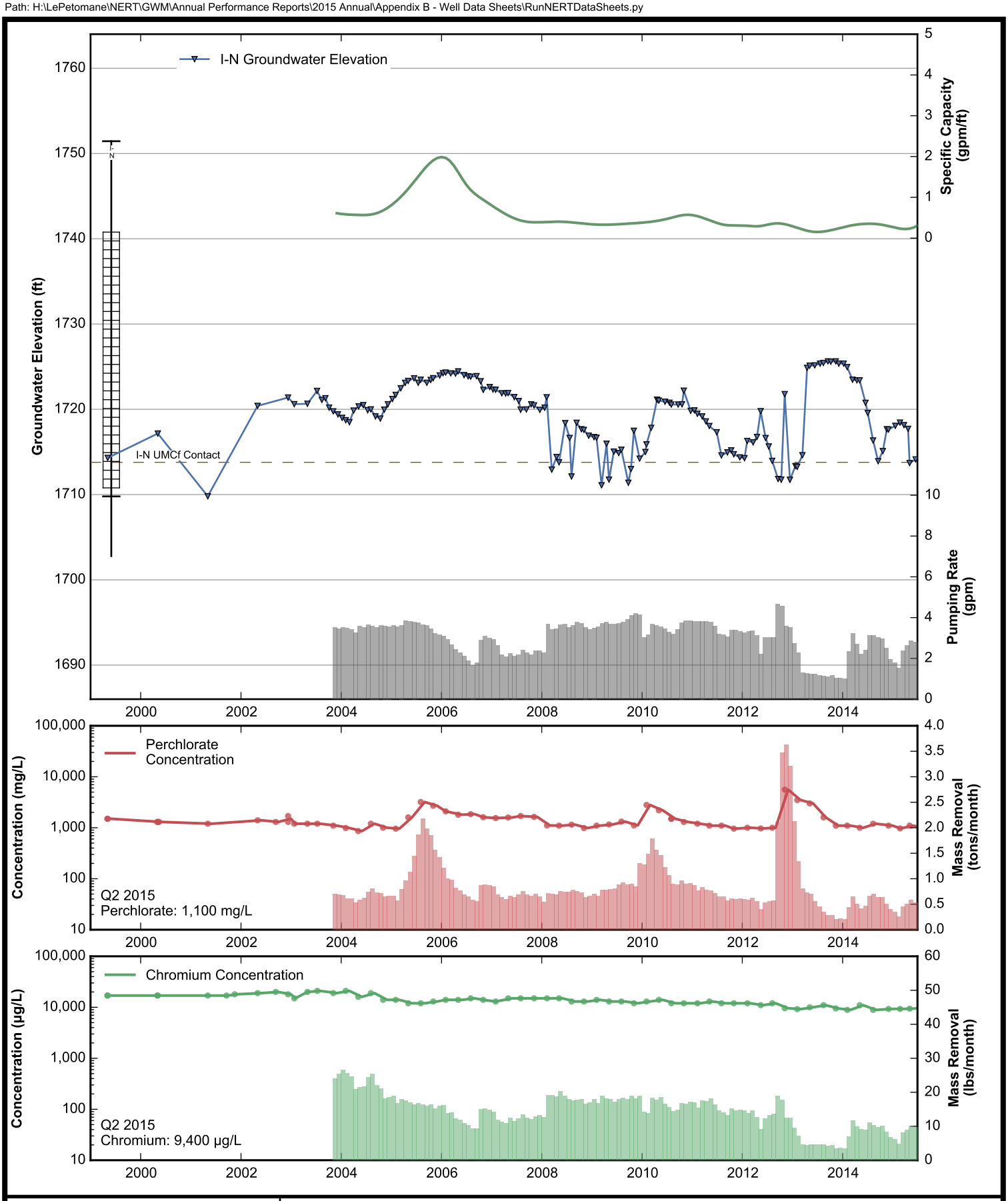

RAMBOLL ENVIRON

Data Sheet for Well I-N
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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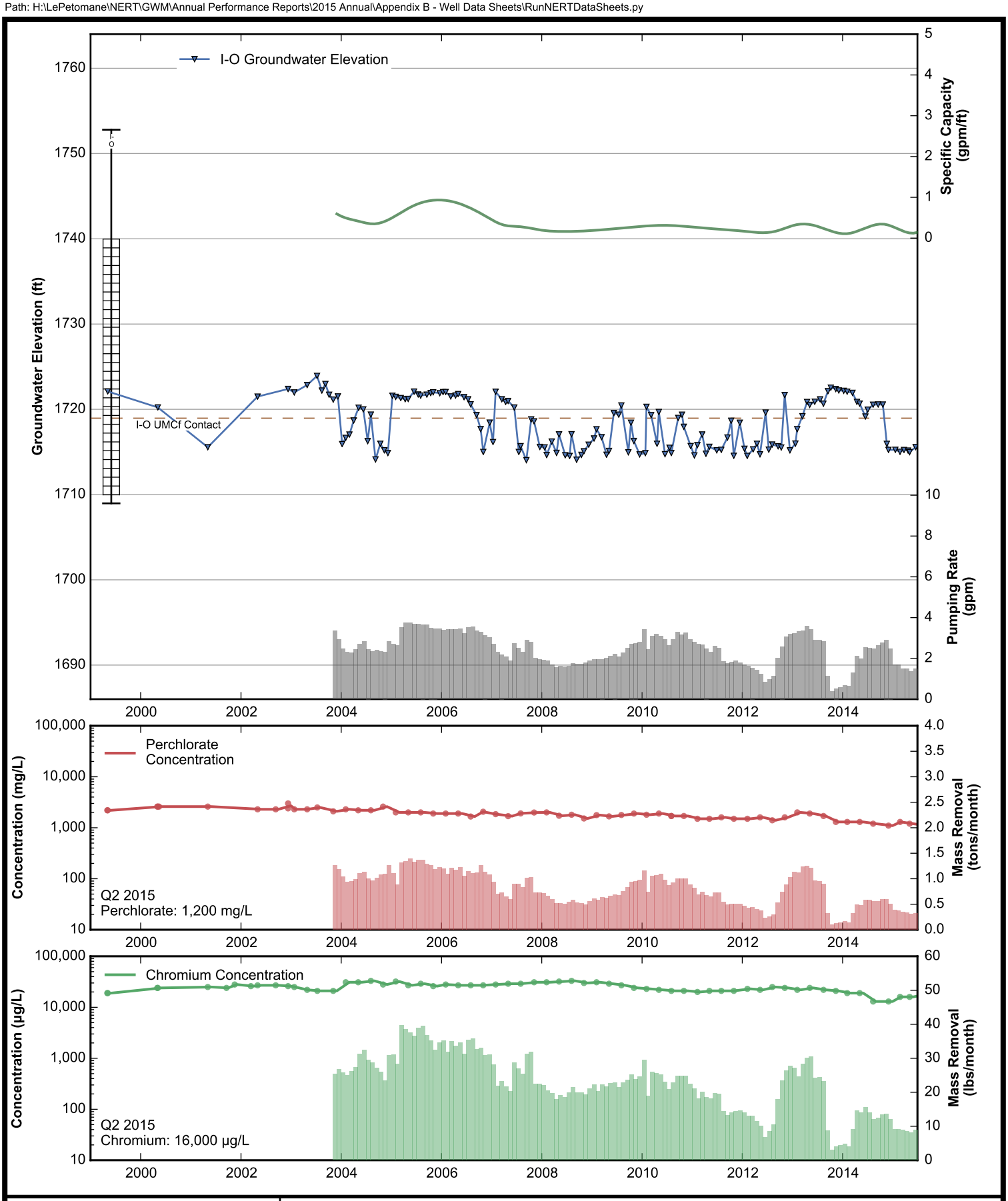

RAMBOLL ENVIRON

Data Sheet for Well I-O
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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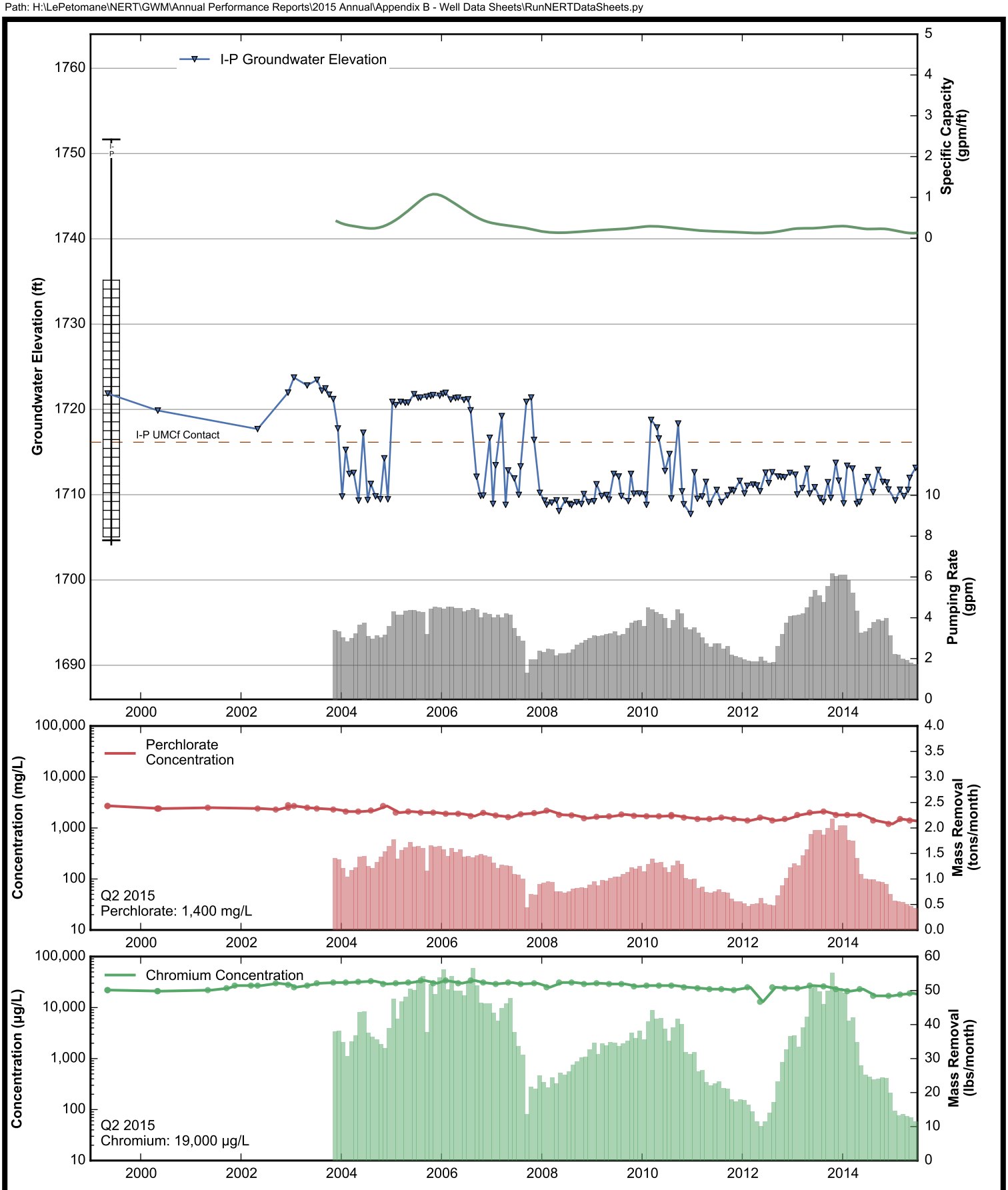

RAMBOLL ENVIRON

Data Sheet for Well I-P
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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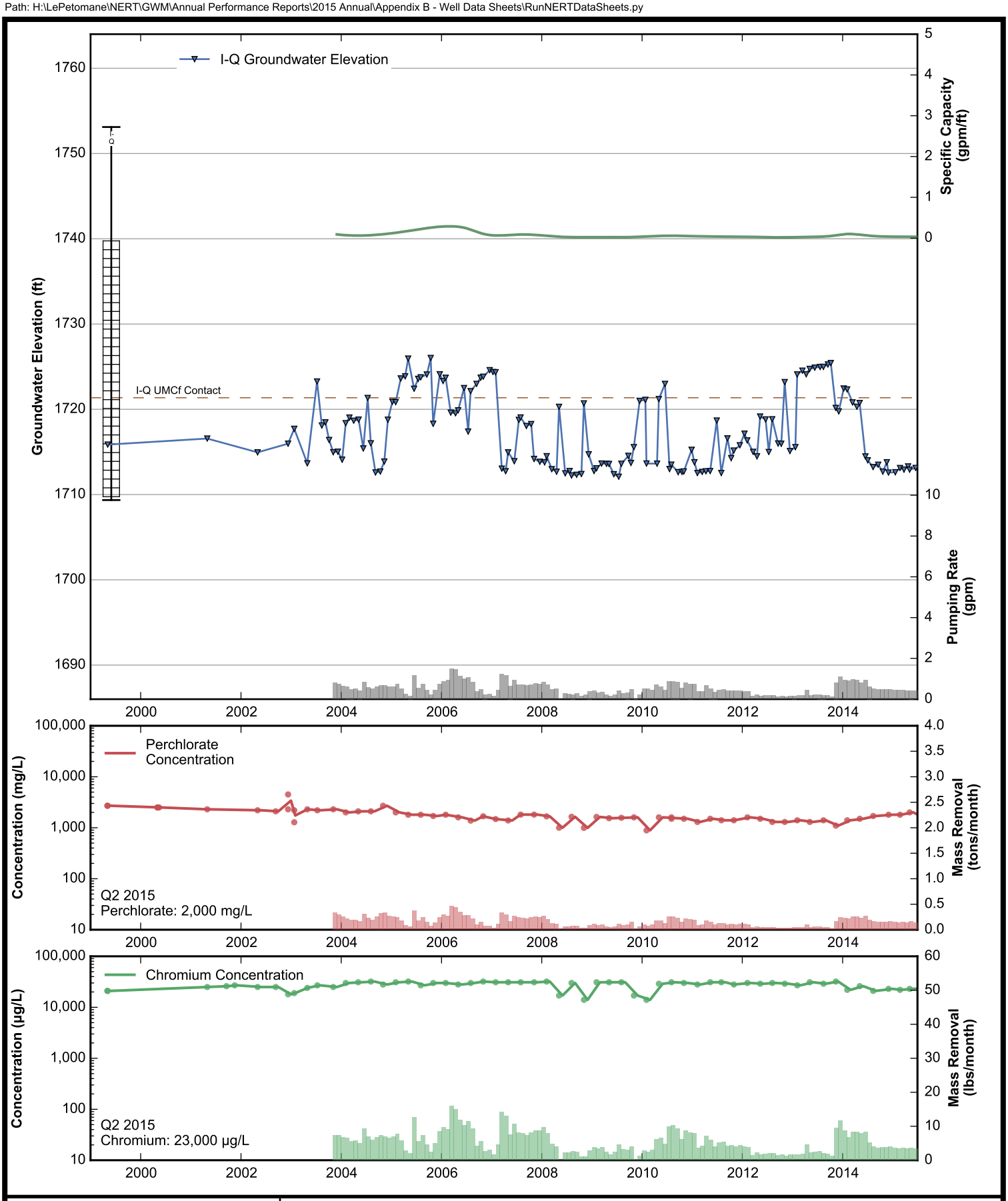

RAMBOLL ENVIRON

Data Sheet for Well I-Q
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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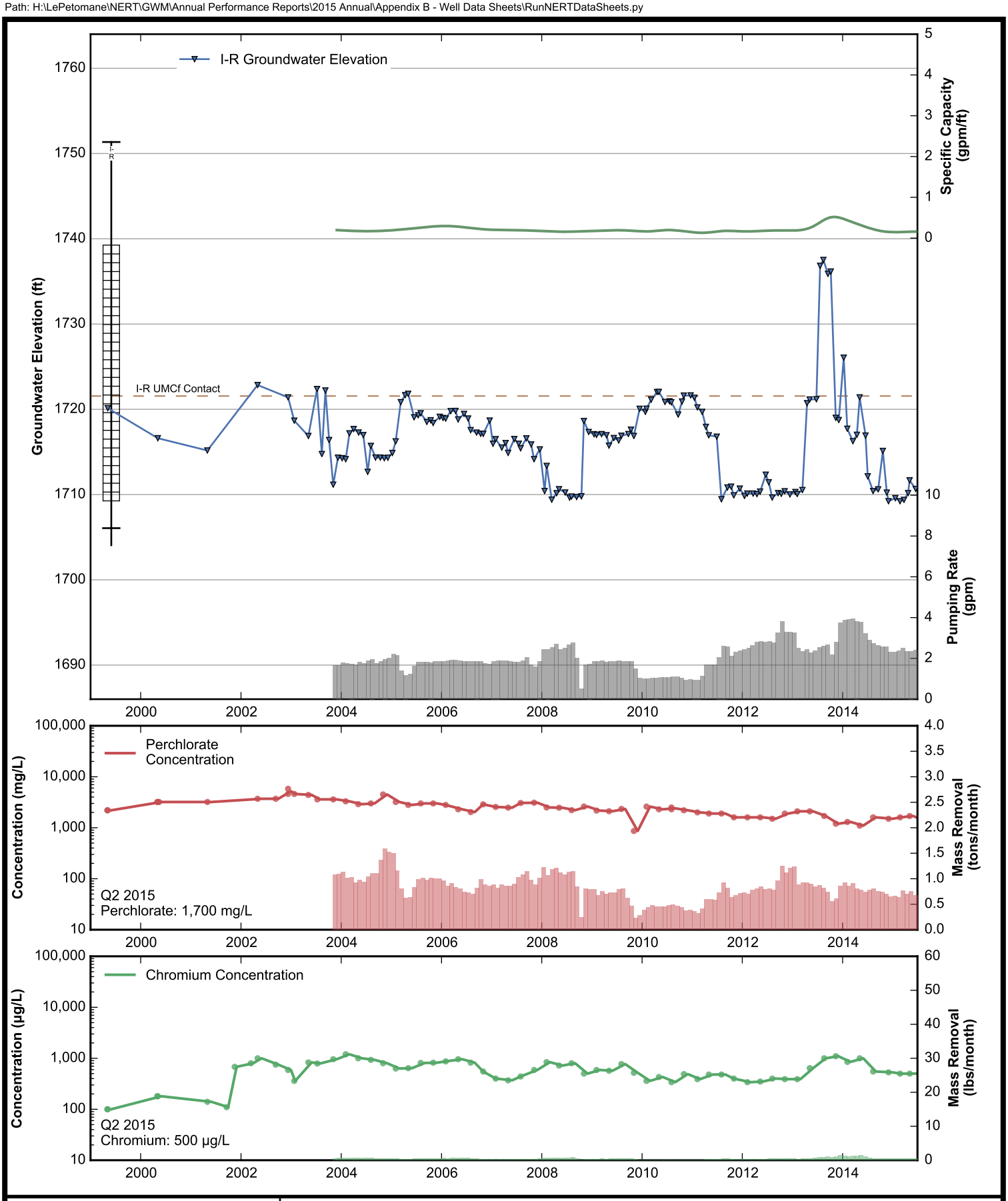

RAMBOLL ENVIRON

Data Sheet for Well I-R
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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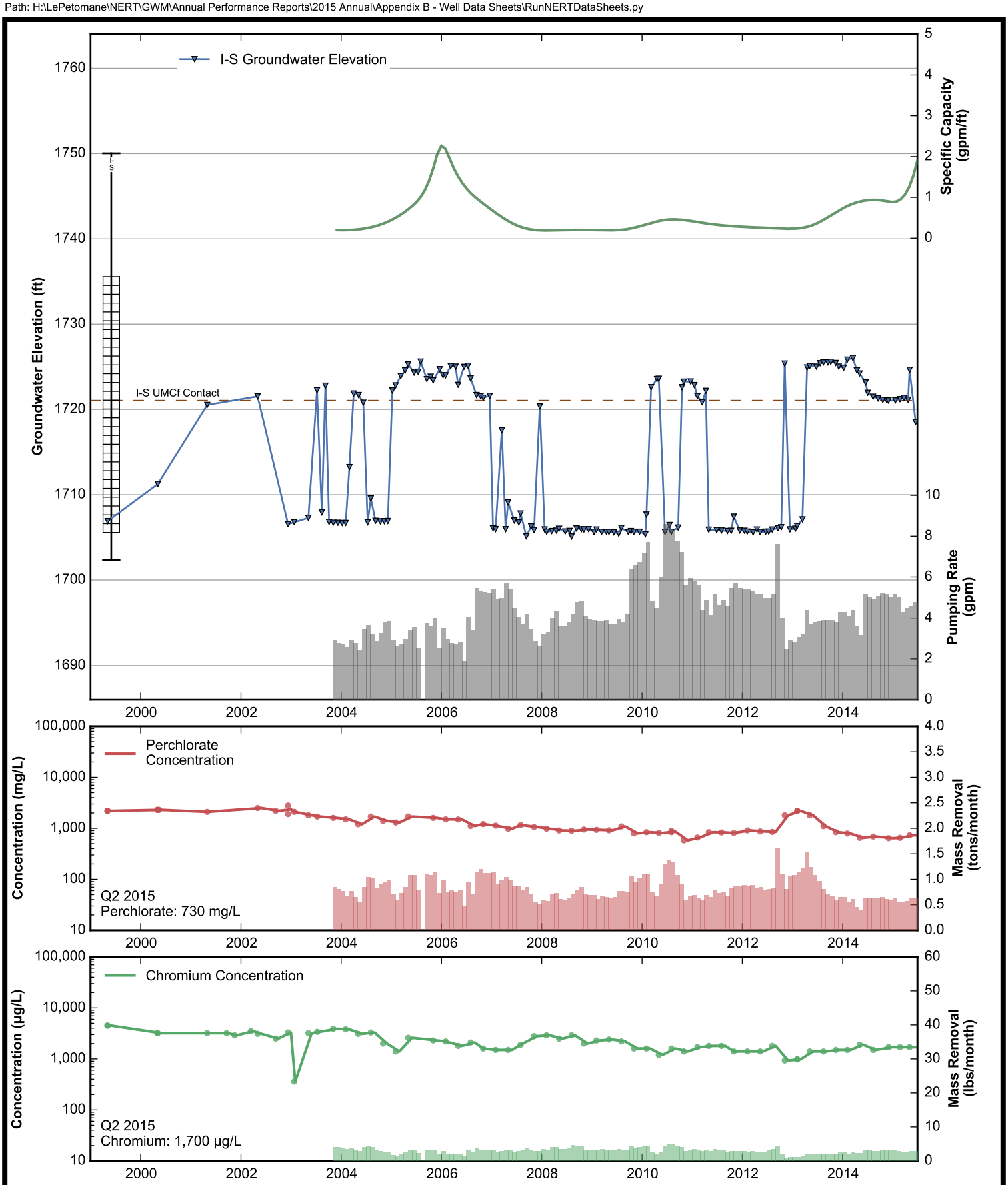

RAMBOLL ENVIRON

Data Sheet for Well I-S
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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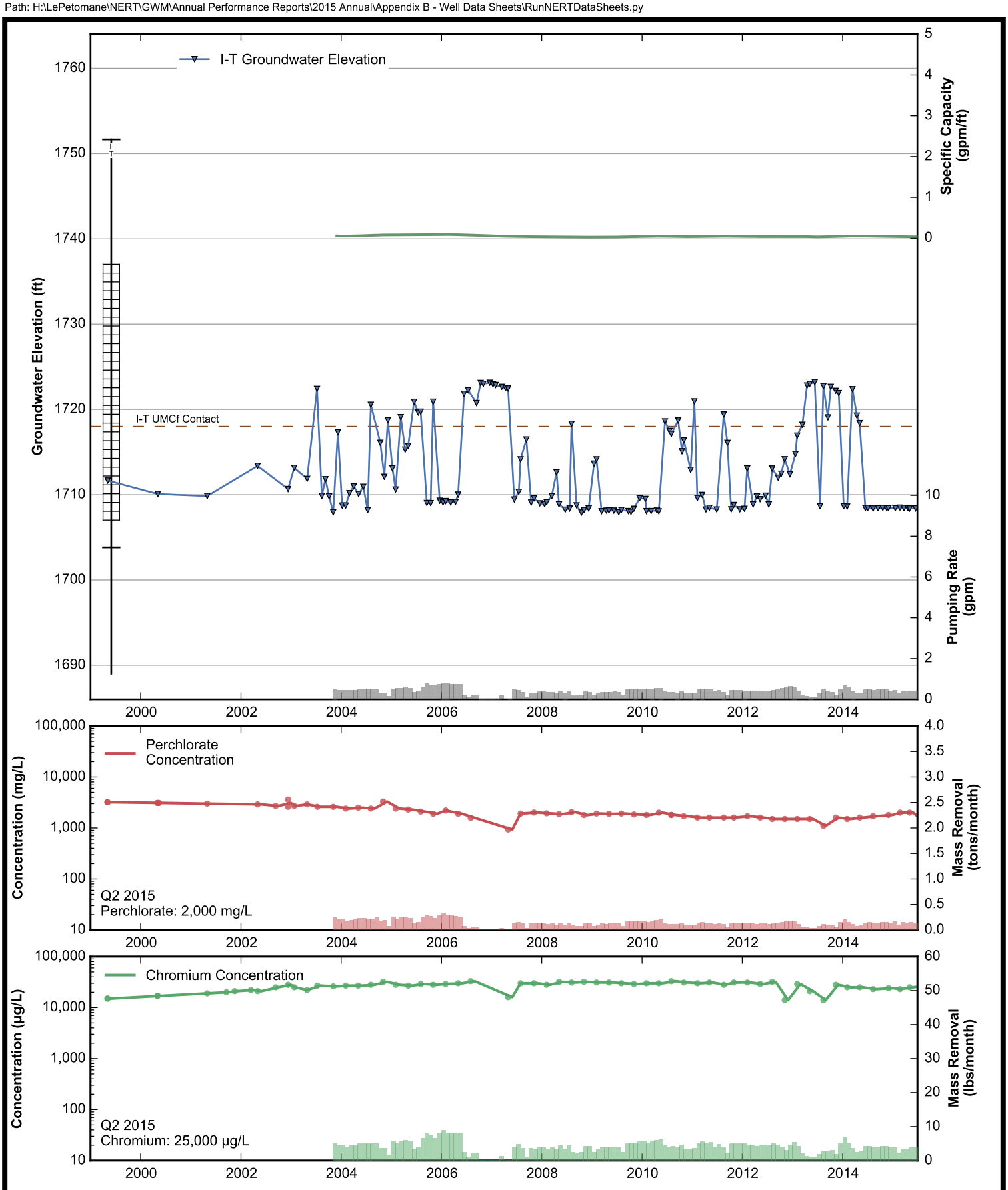

RAMBOLL ENVIRON

Data Sheet for Well I-T
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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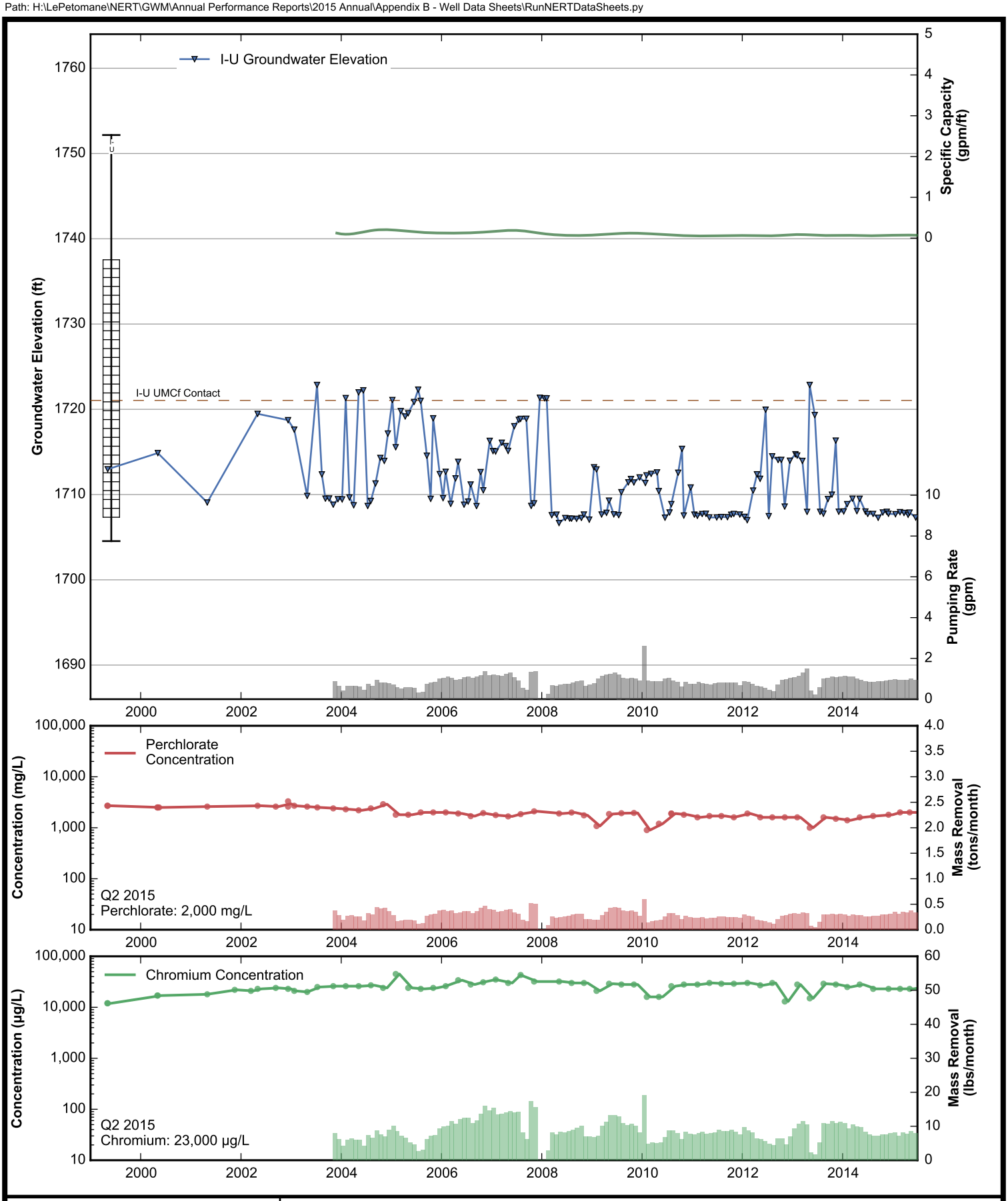

RAMBOLL ENVIRON

Data Sheet for Well I-U
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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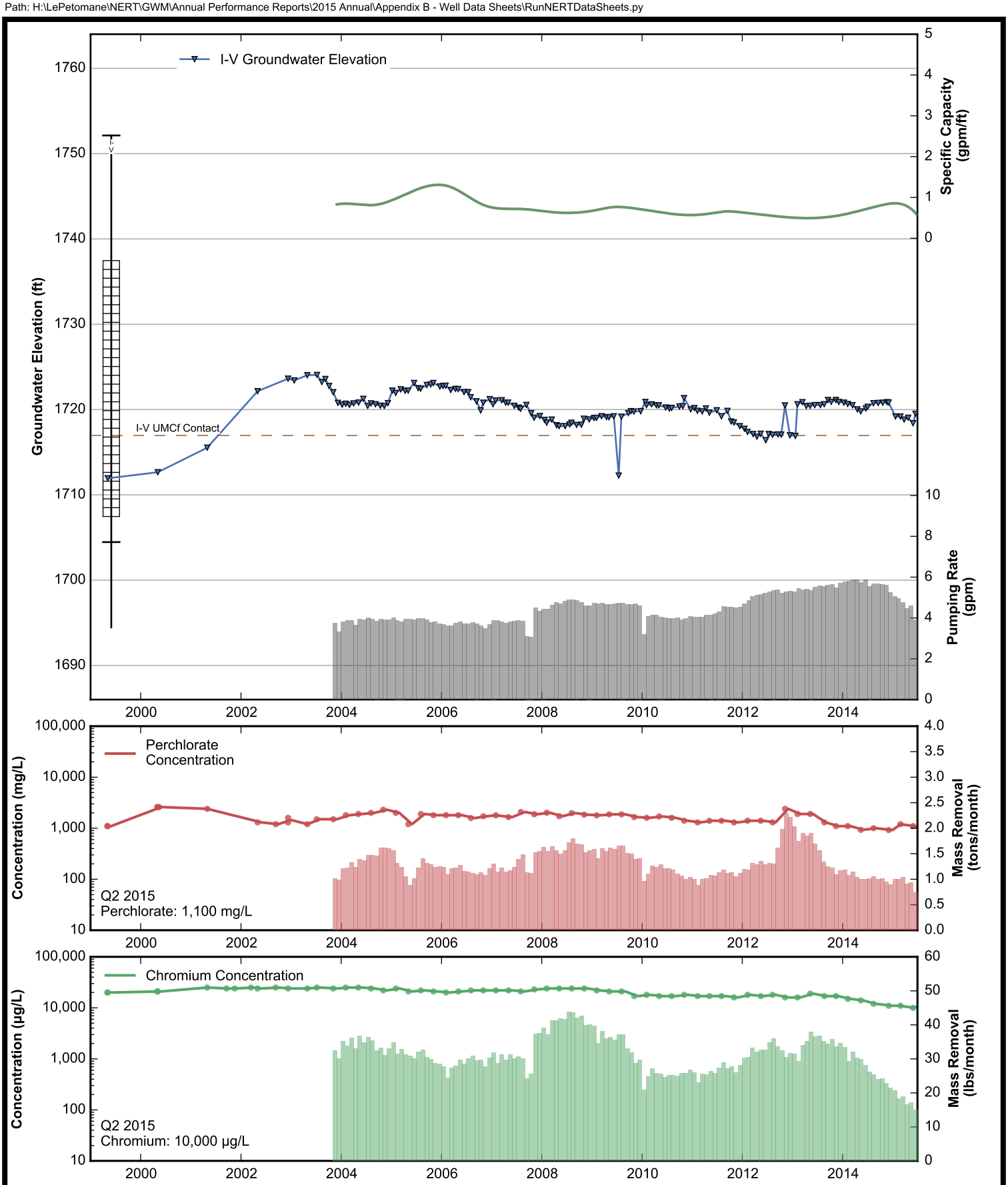

RAMBOLL ENVIRON

Data Sheet for Well I-V
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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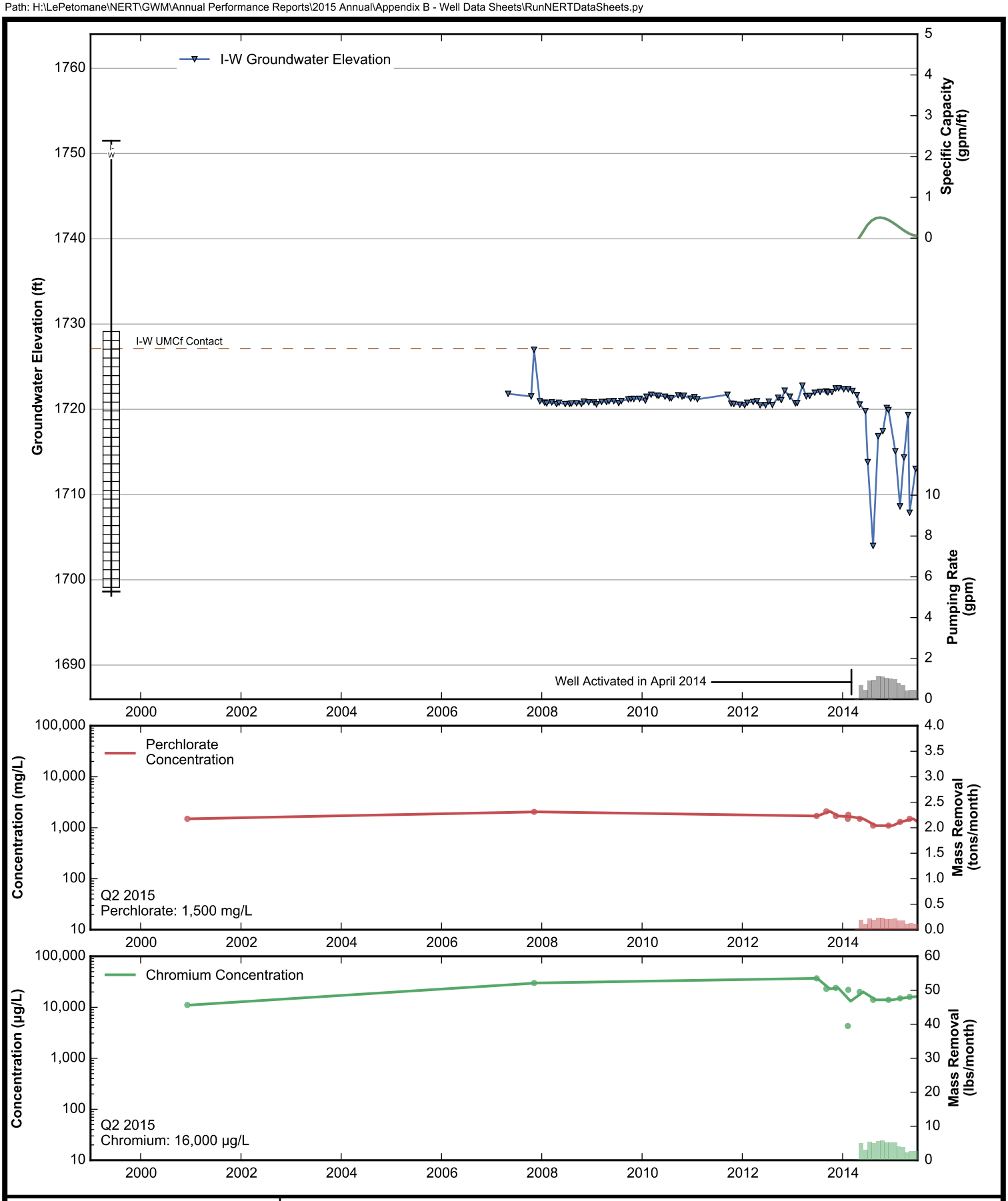

RAMBOLL ENVIRON

Data Sheet for Well I-W
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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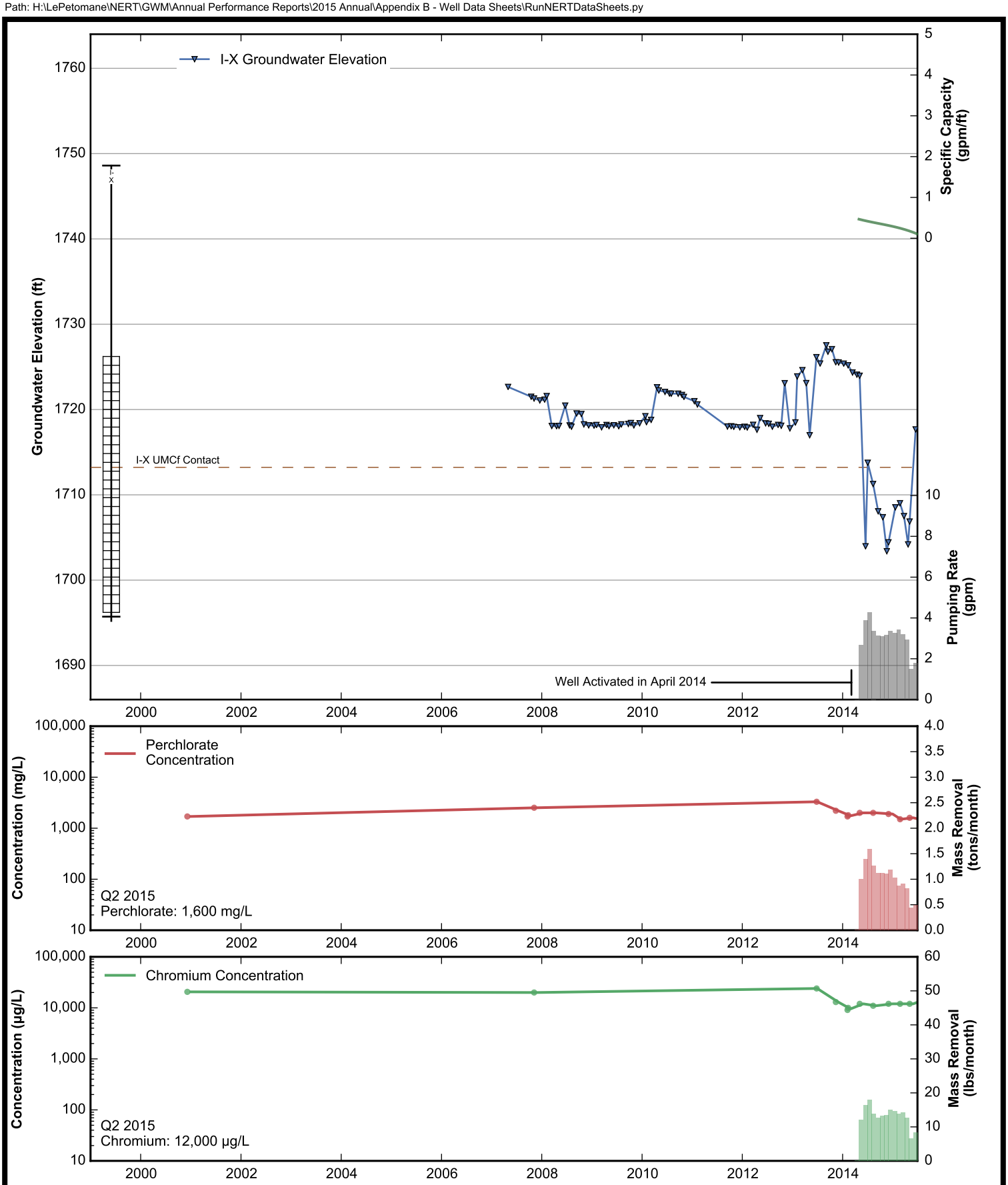

RAMBOLL ENVIRON

Data Sheet for Well I-X
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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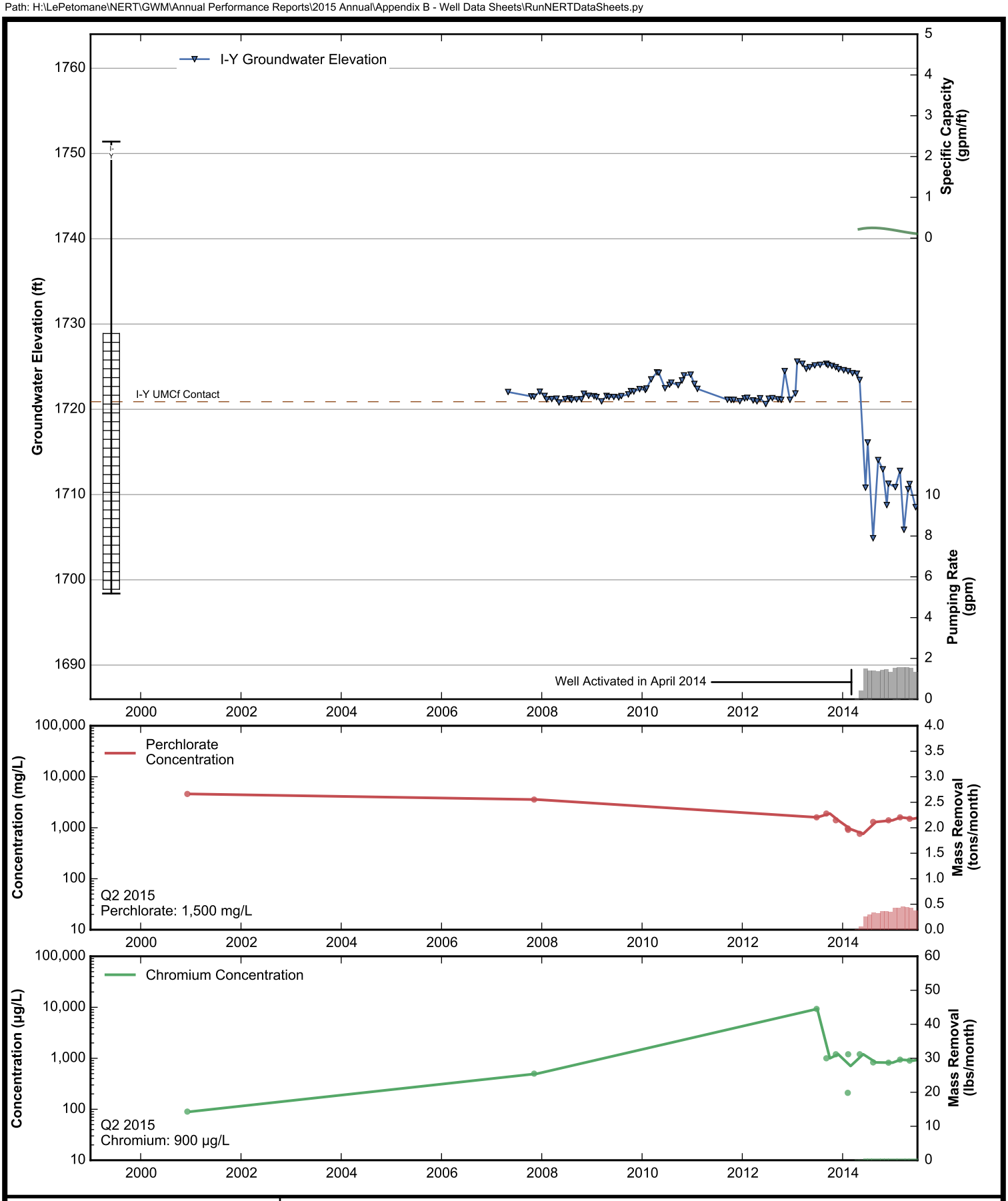

RAMBOLL ENVIRON

Data Sheet for Well I-Y
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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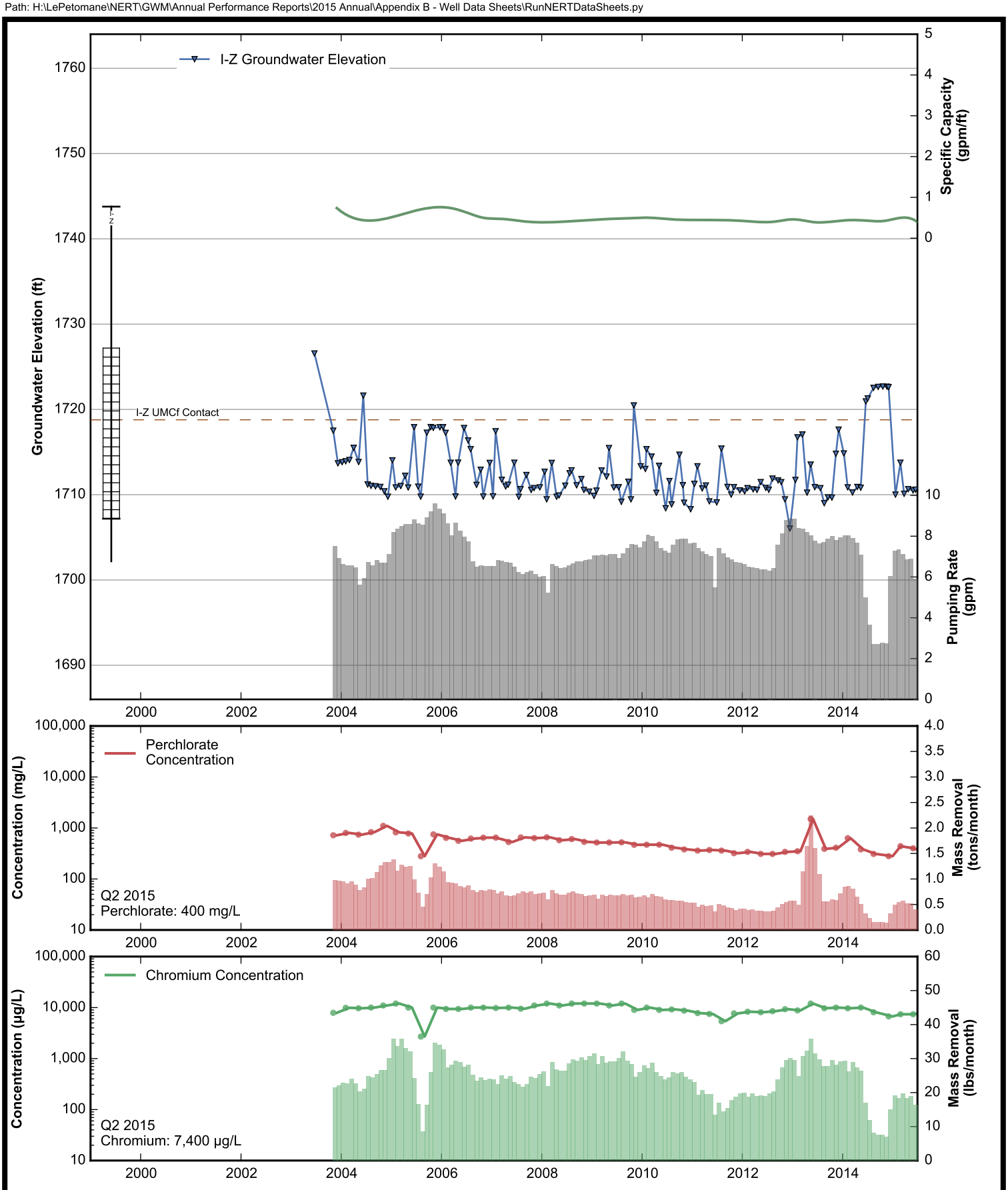

RAMBOLL ENVIRON

Data Sheet for Well I-Z
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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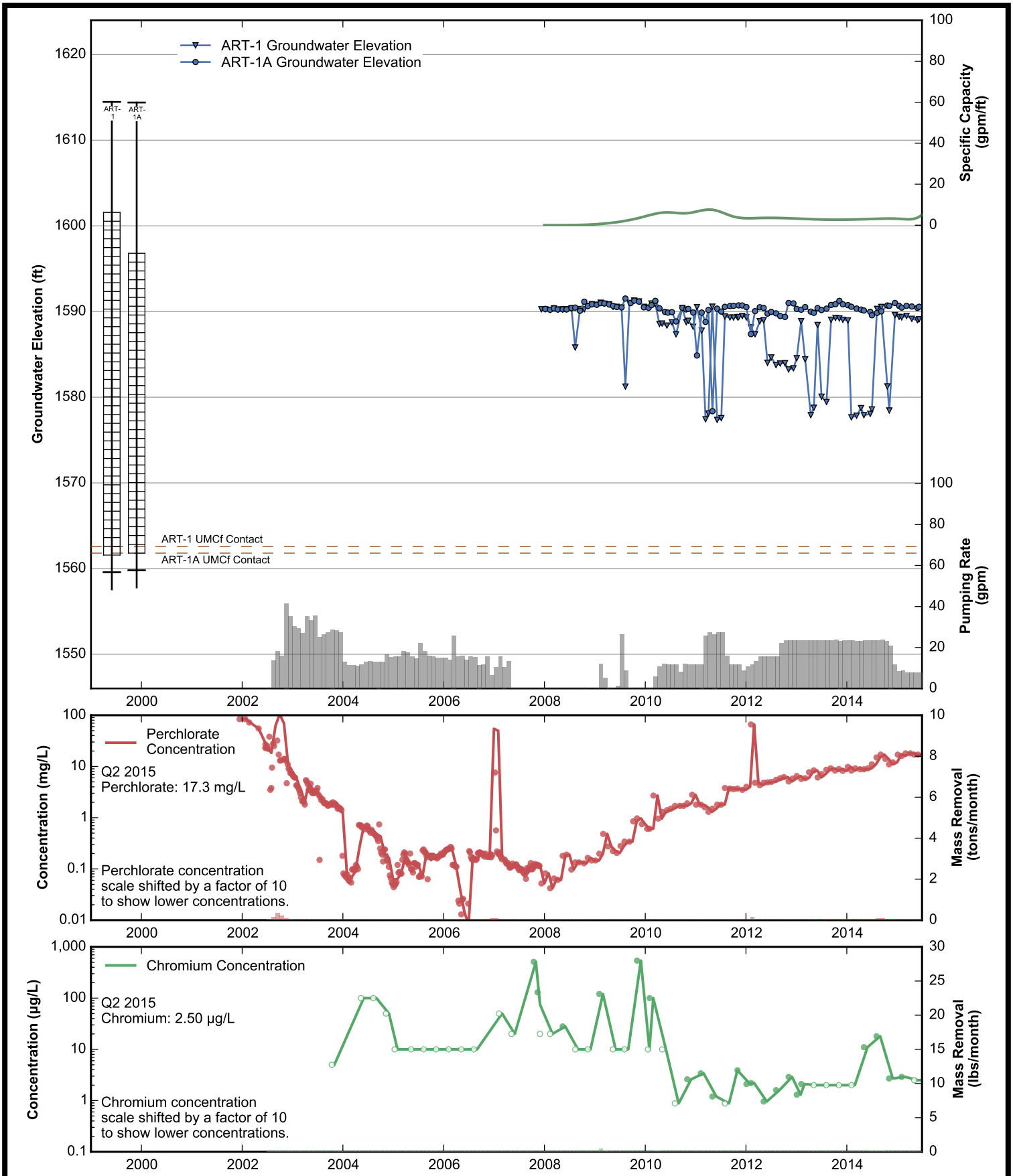

RAMBOLL ENVIRON

Data Sheet for Well ART-1/1A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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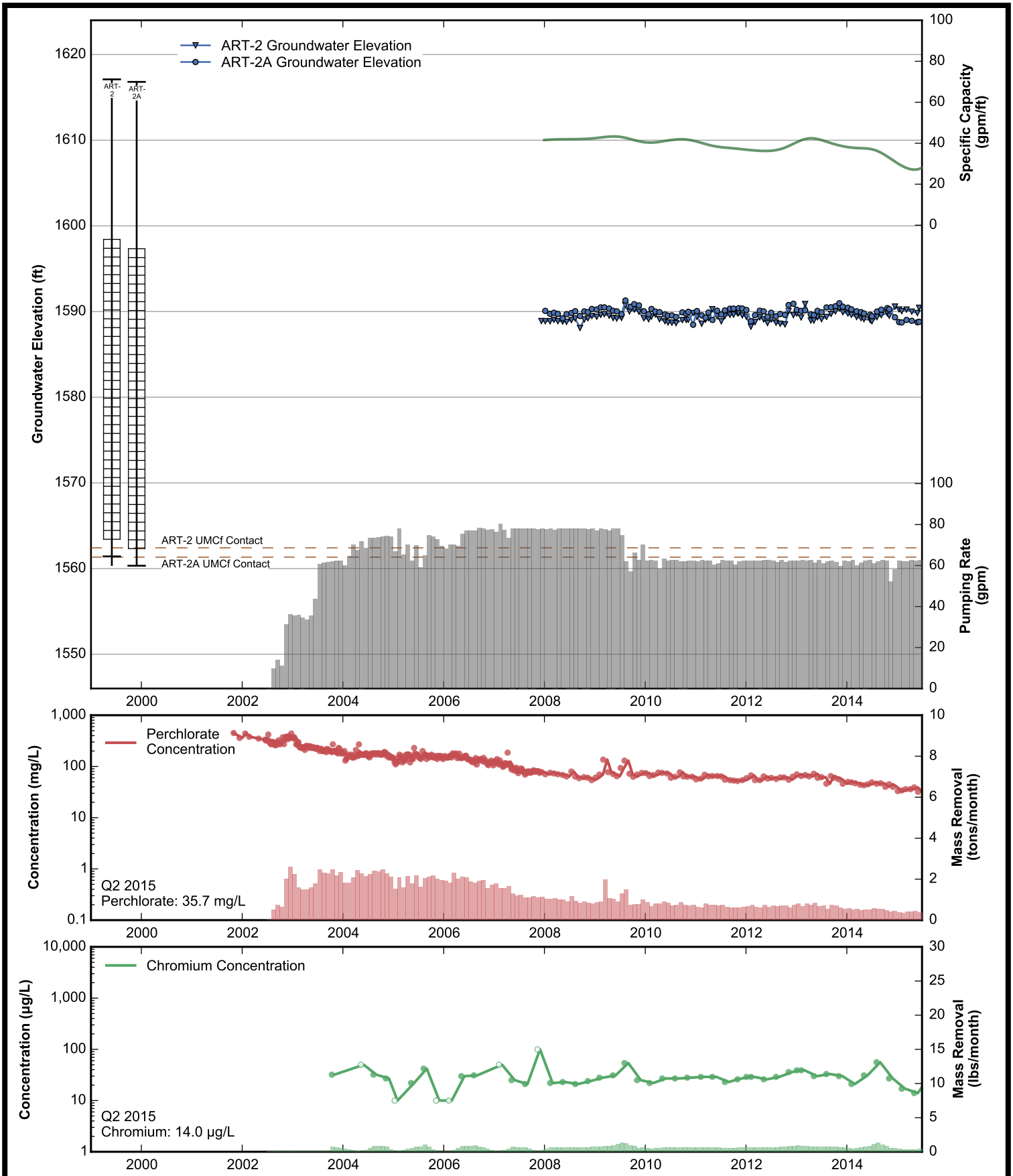

RAMBOLL ENVIRON

Data Sheet for Well ART-2/2A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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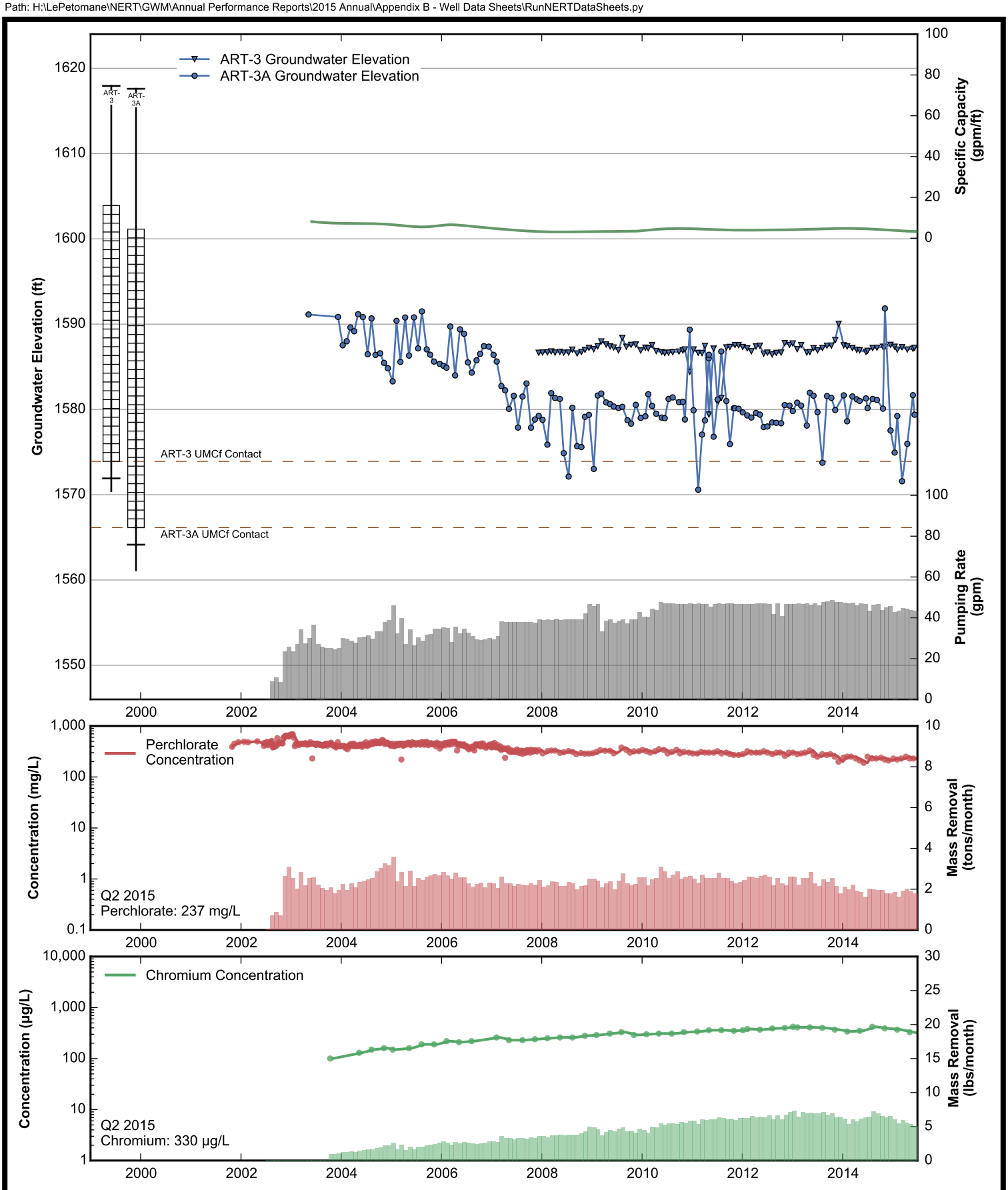

RAMBOLL ENVIRON

Data Sheet for Well ART-3/3A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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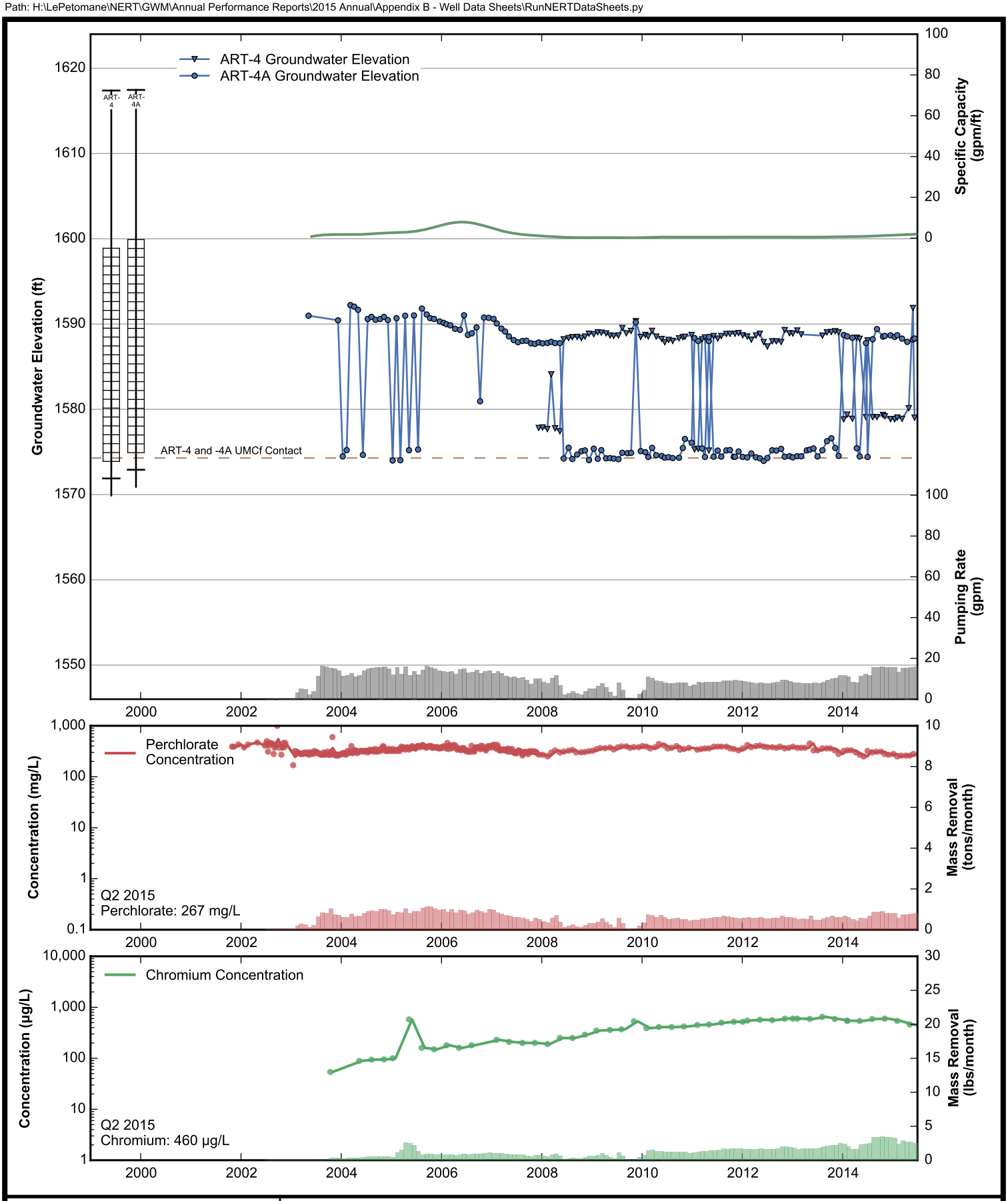

RAMBOLL ENVIRON

Data Sheet for Well ART-4/4A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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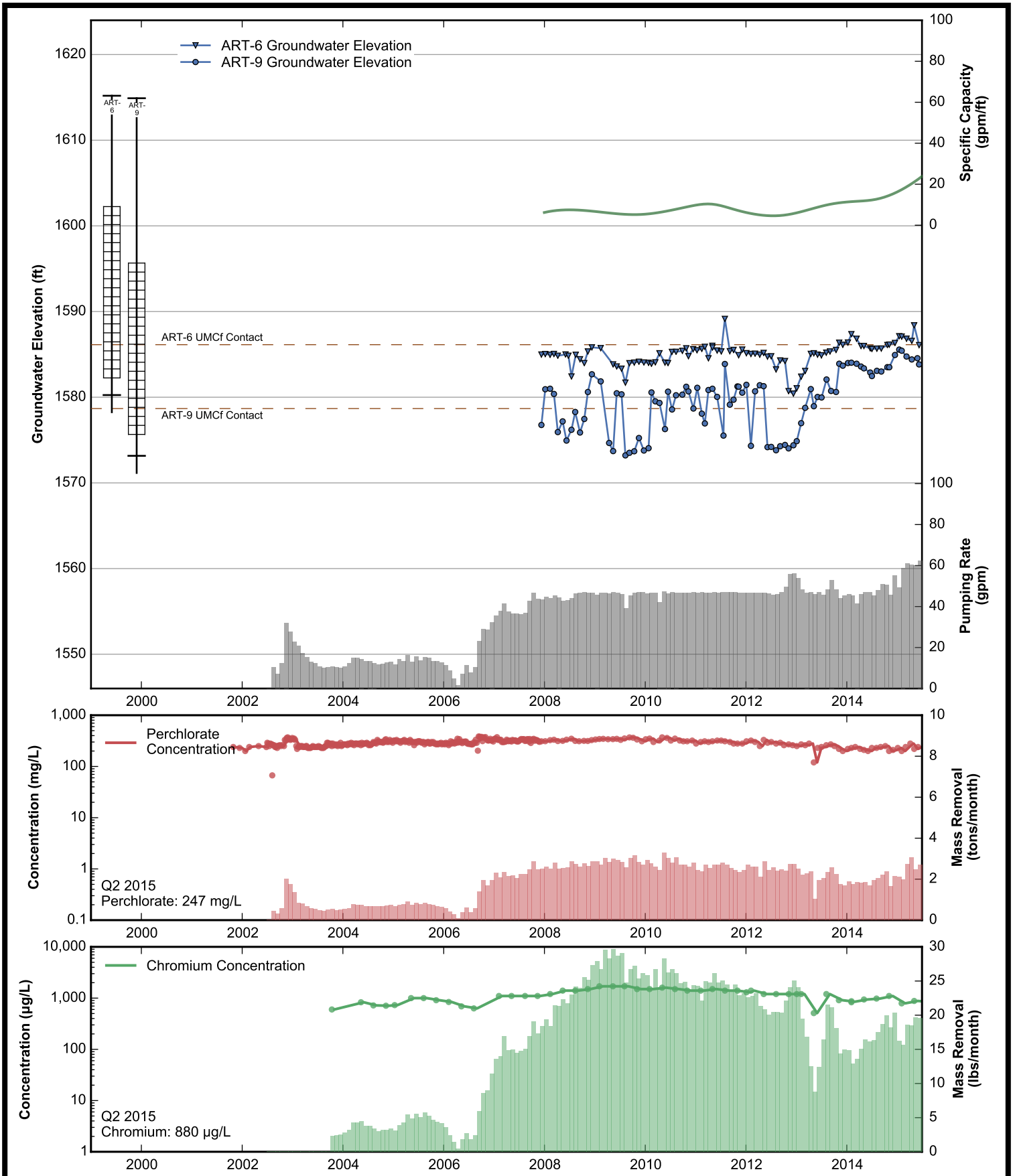

RAMBOLL ENVIRON

Data Sheet for Well ART-6/9
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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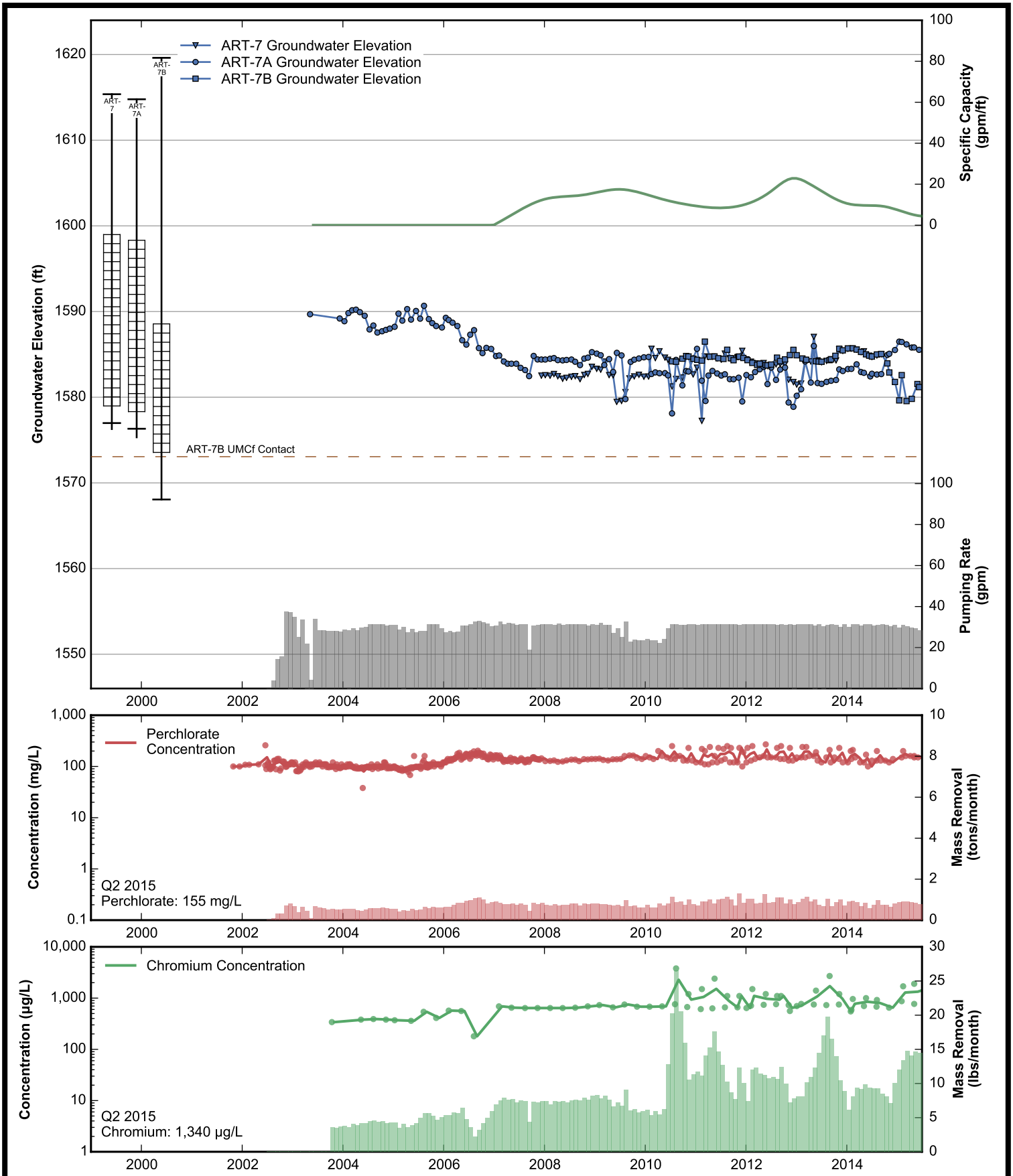

RAMBOLL ENVIRON

Data Sheet for Well ART-7/7A/7B
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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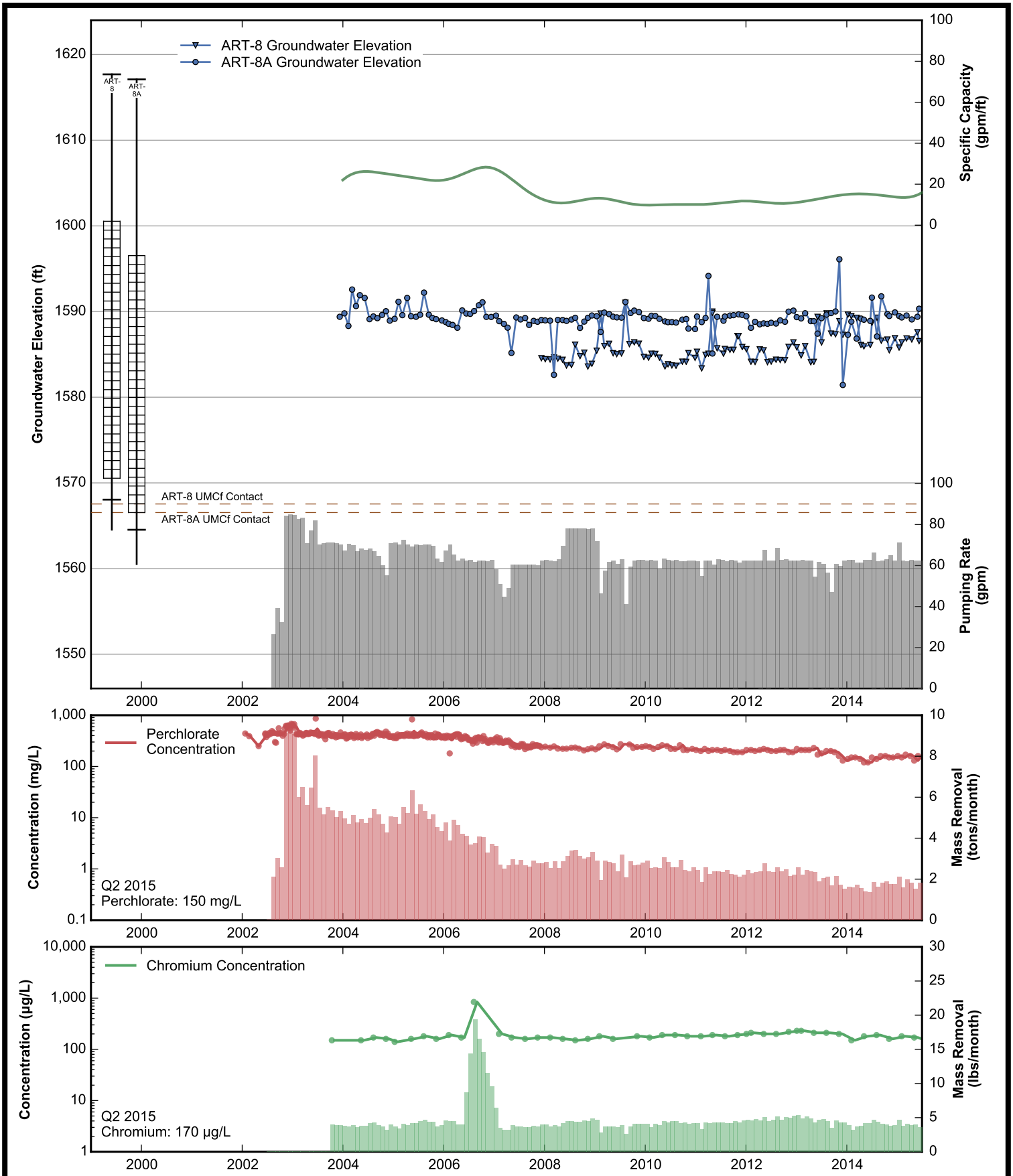

RAMBOLL ENVIRON

Data Sheet for Well ART-8/8A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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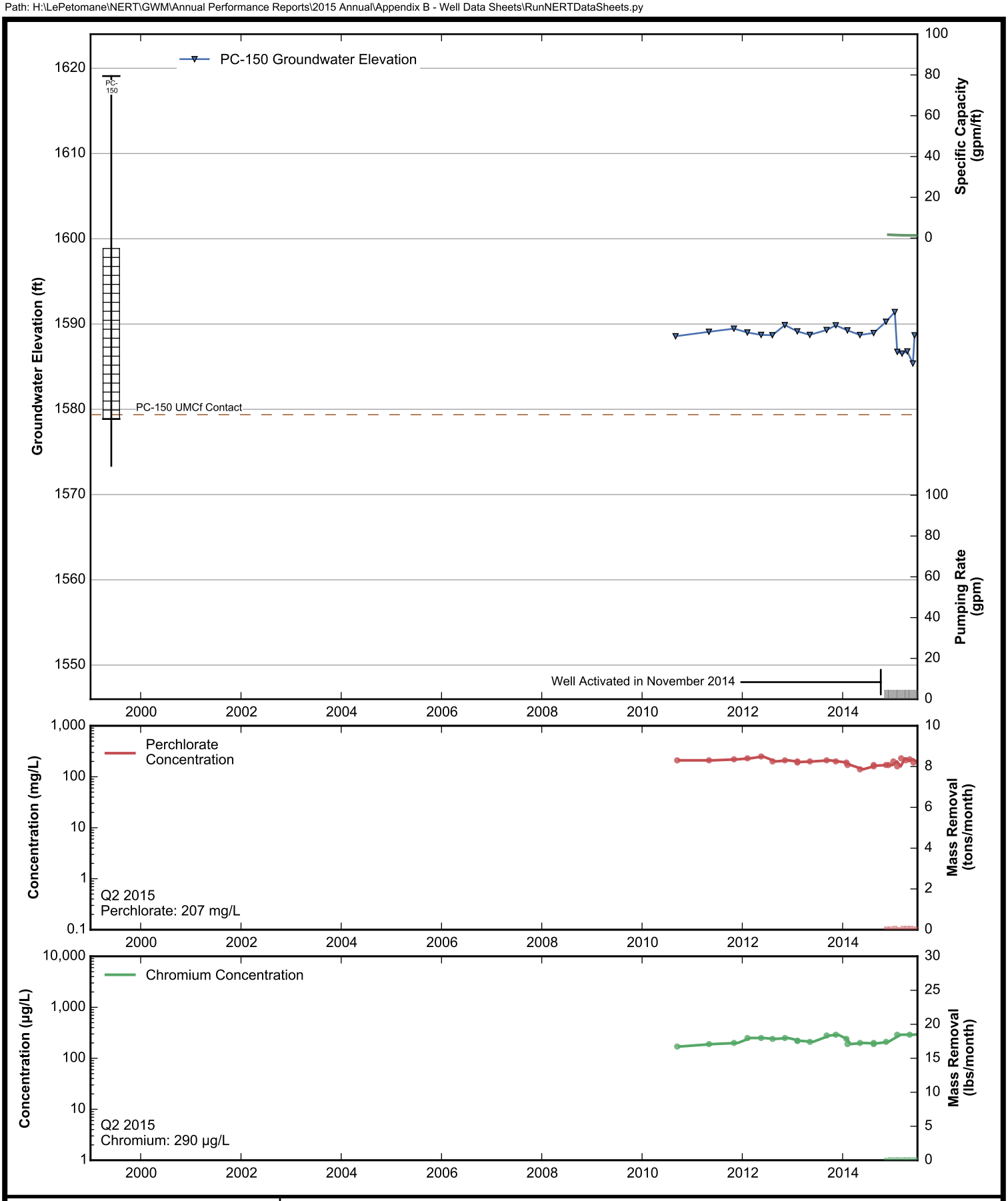

RAMBOLL ENVIRON

Data Sheet for Well PC-150
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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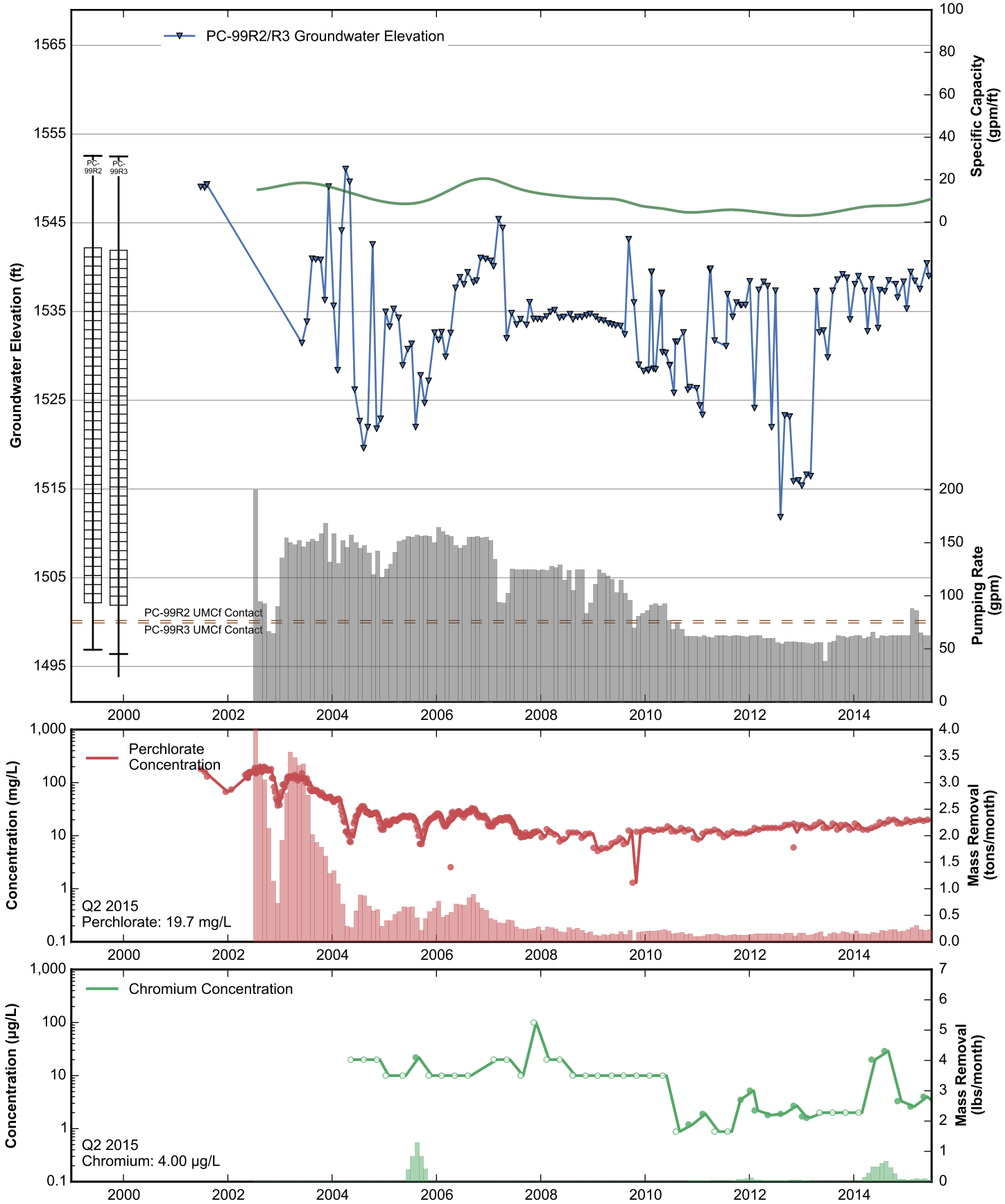

RAMBOLL ENVIRON

Data Sheet for Well PC-99R2/R3
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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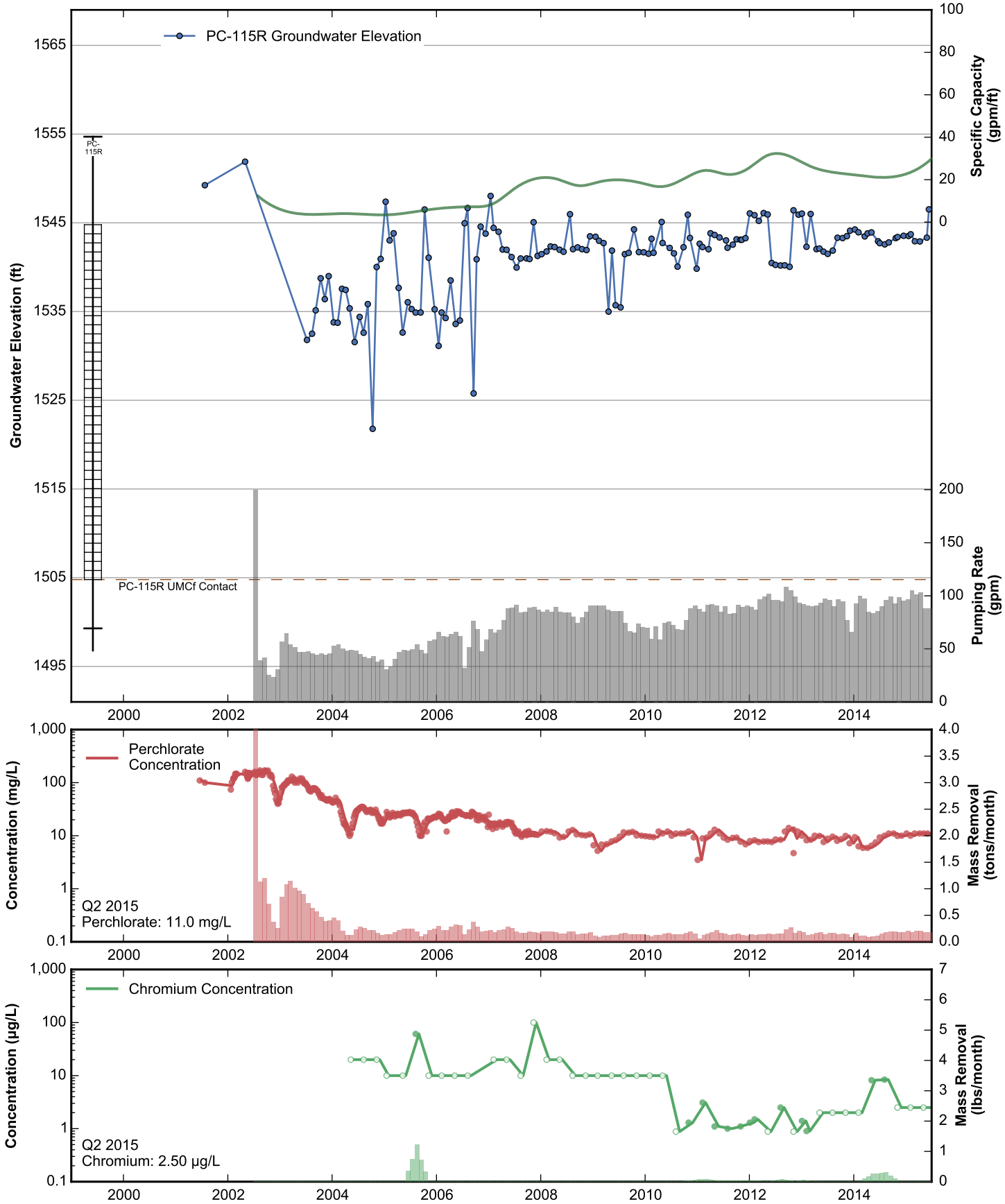

RAMBOLL ENVIRON

Data Sheet for Well PC-115R
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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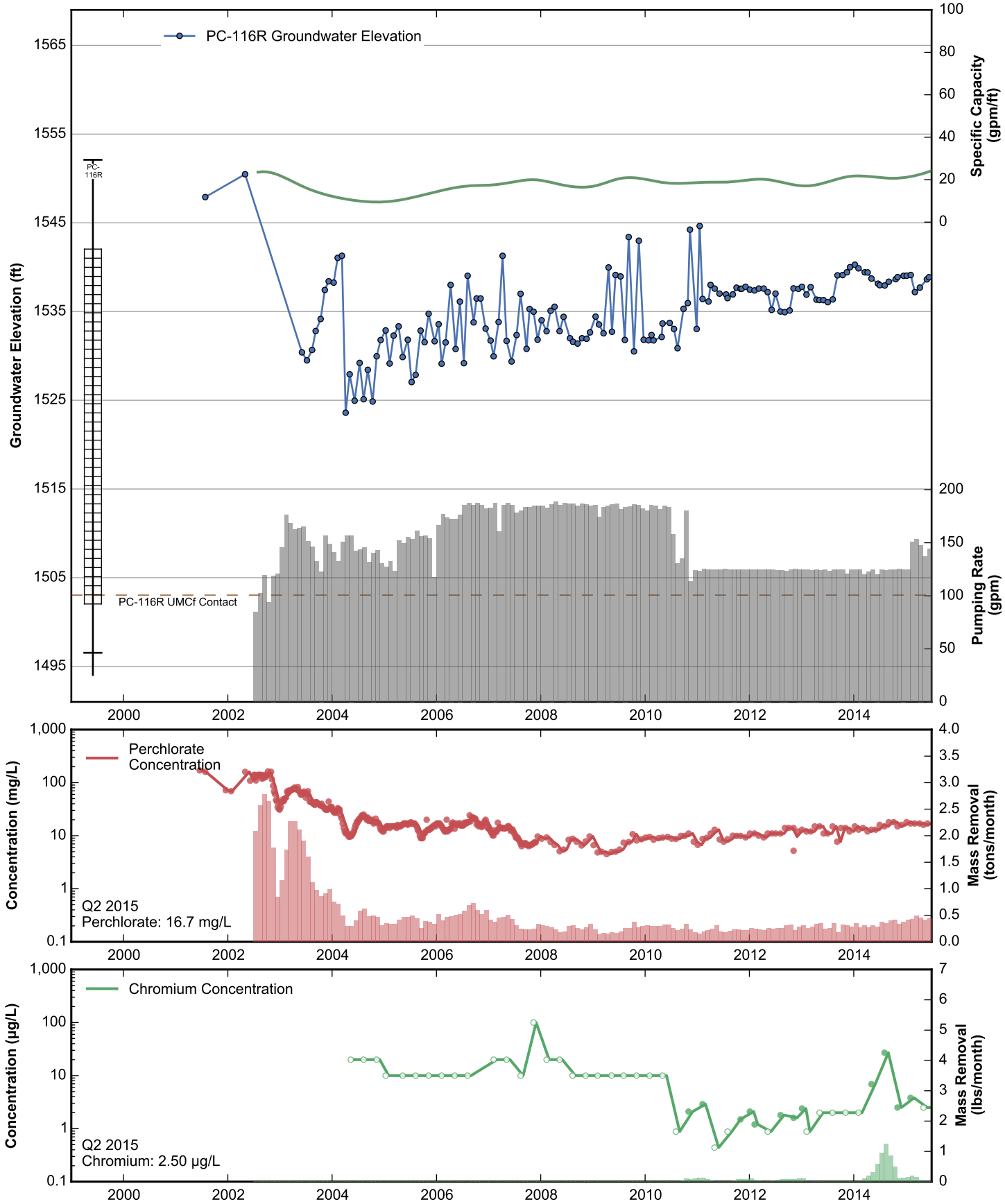

RAMBOLL ENVIRON

Data Sheet for Well PC-116R
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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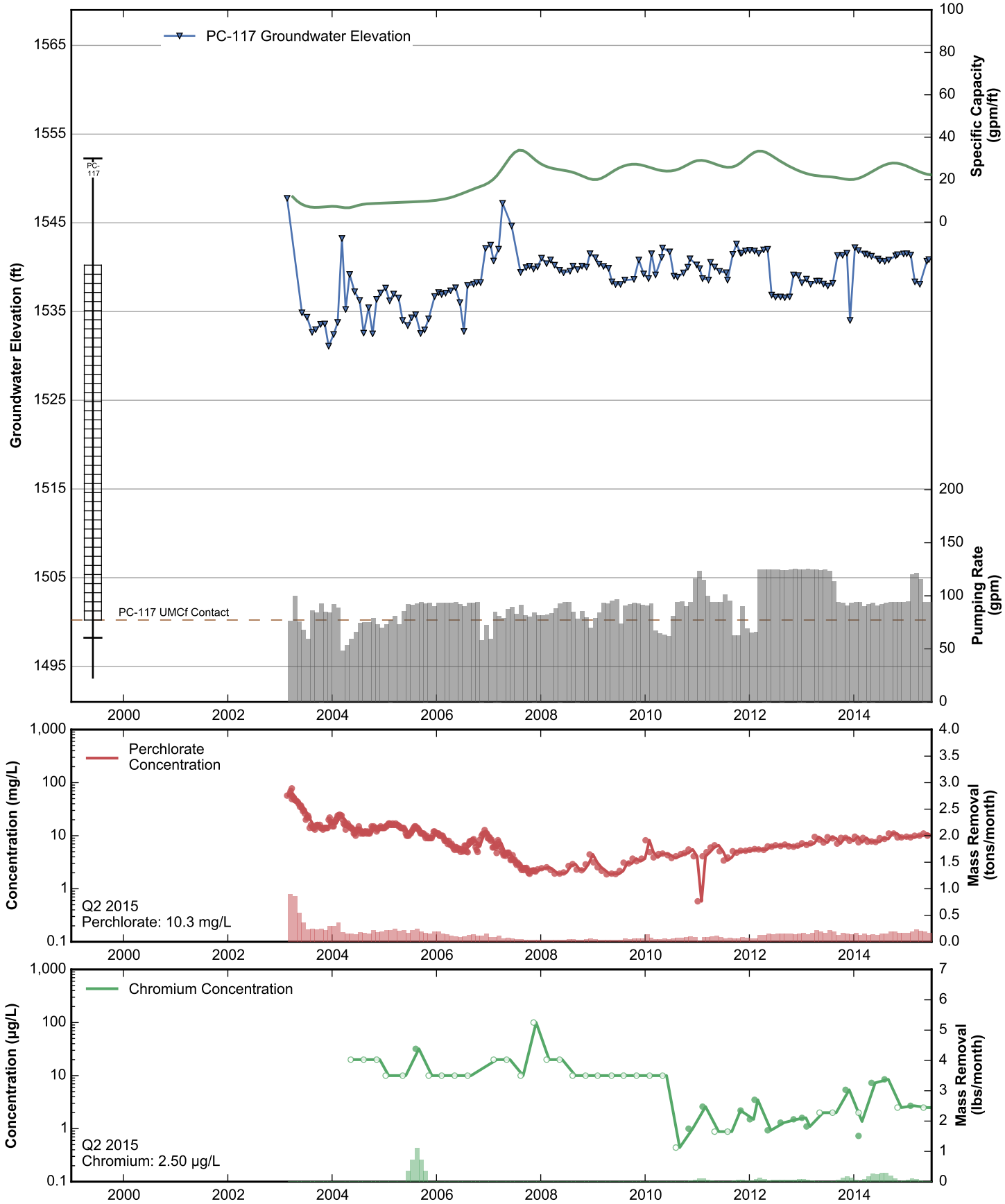

RAMBOLL ENVIRON

Data Sheet for Well PC-117
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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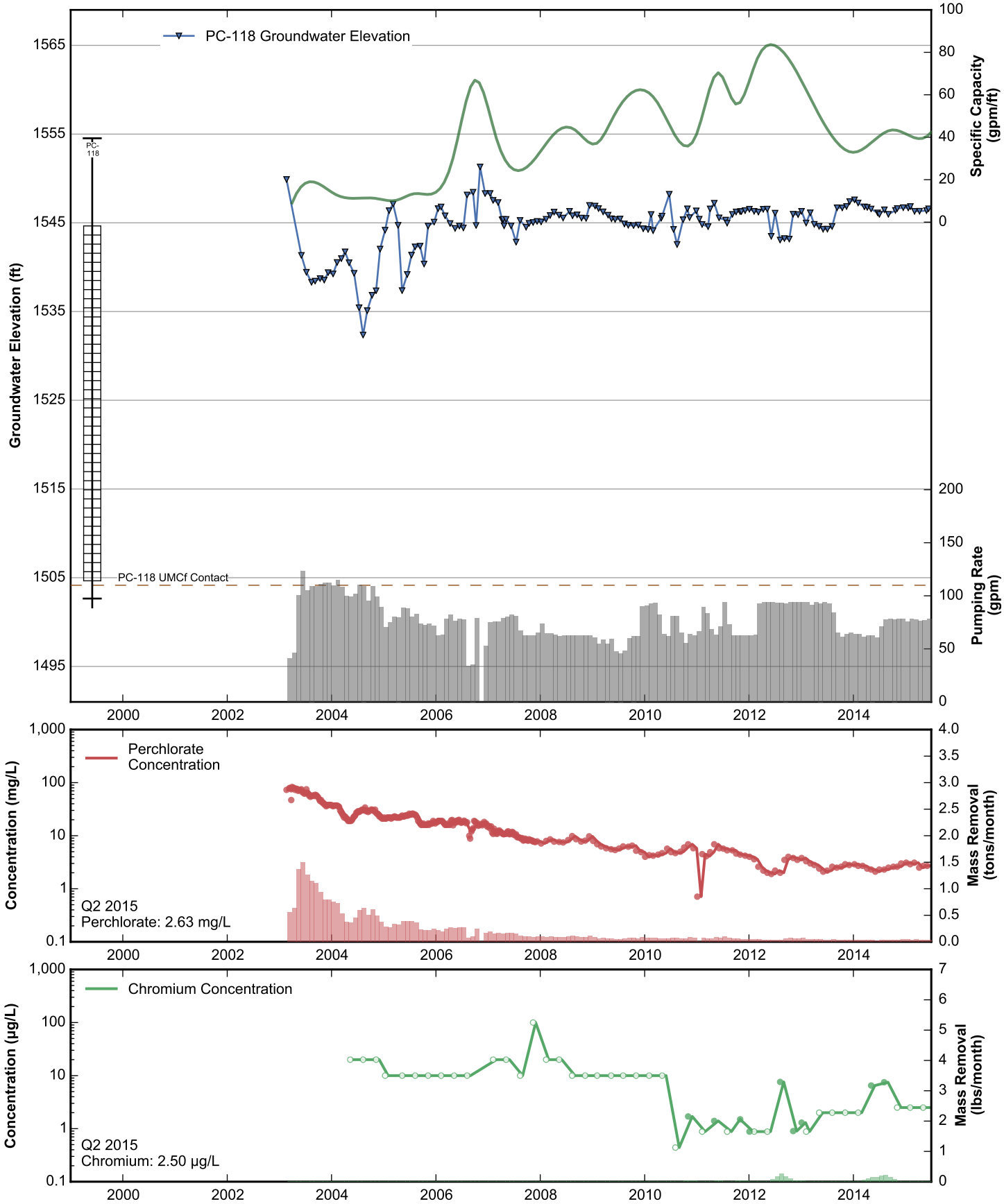

RAMBOLL ENVIRON

Data Sheet for Well PC-118
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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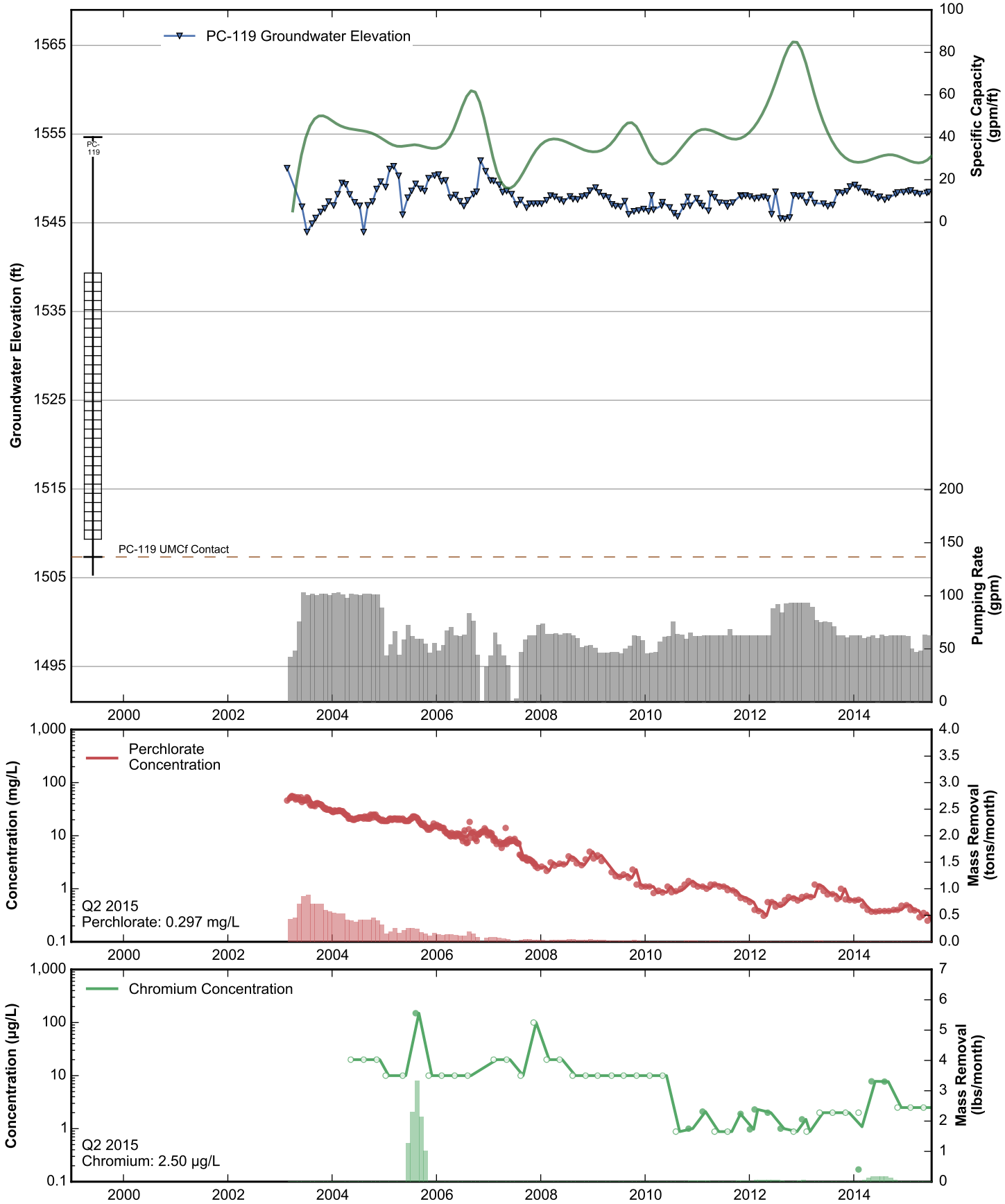

RAMBOLL ENVIRON

Data Sheet for Well PC-119
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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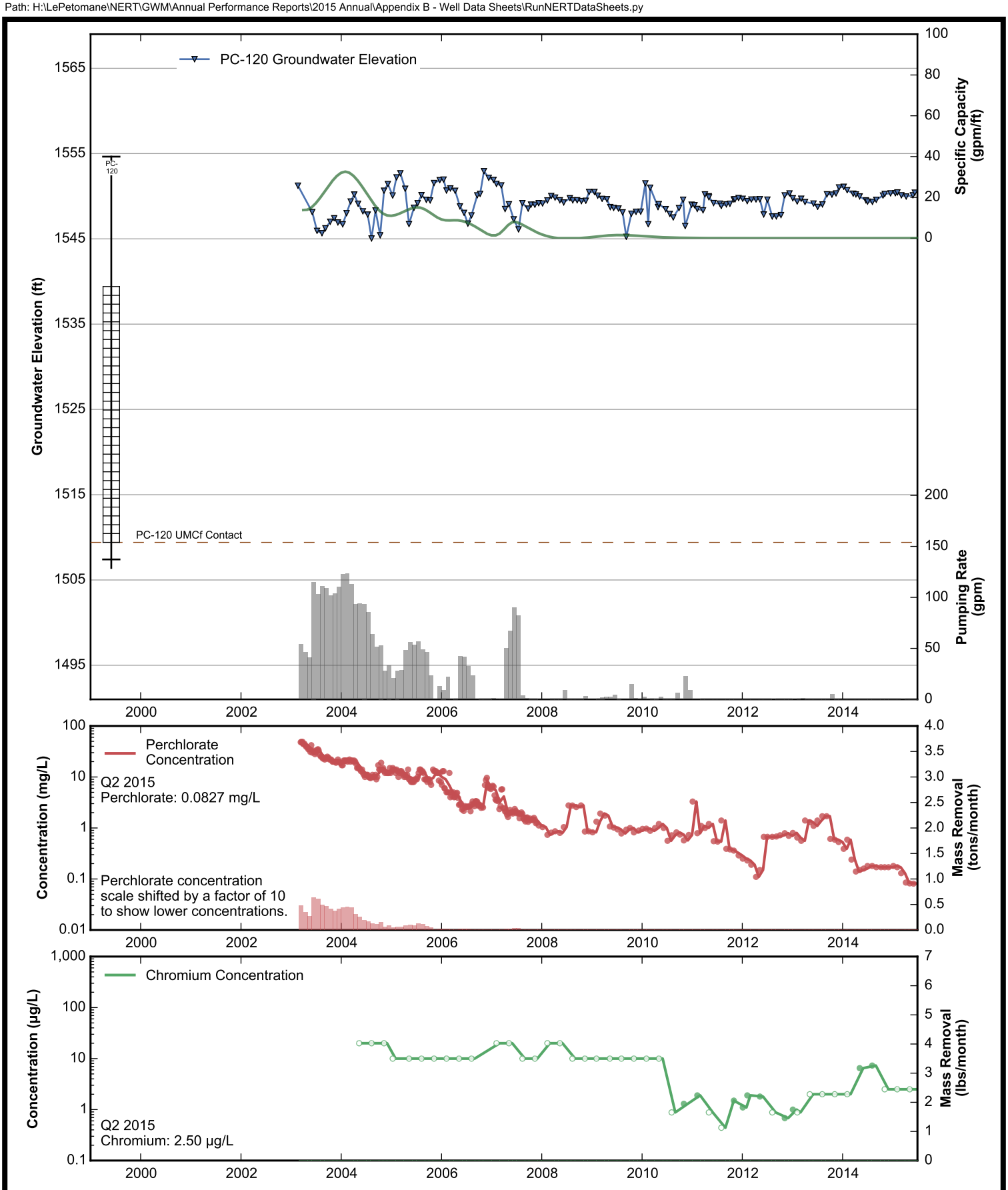

RAMBOLL ENVIRON

Data Sheet for Well PC-120
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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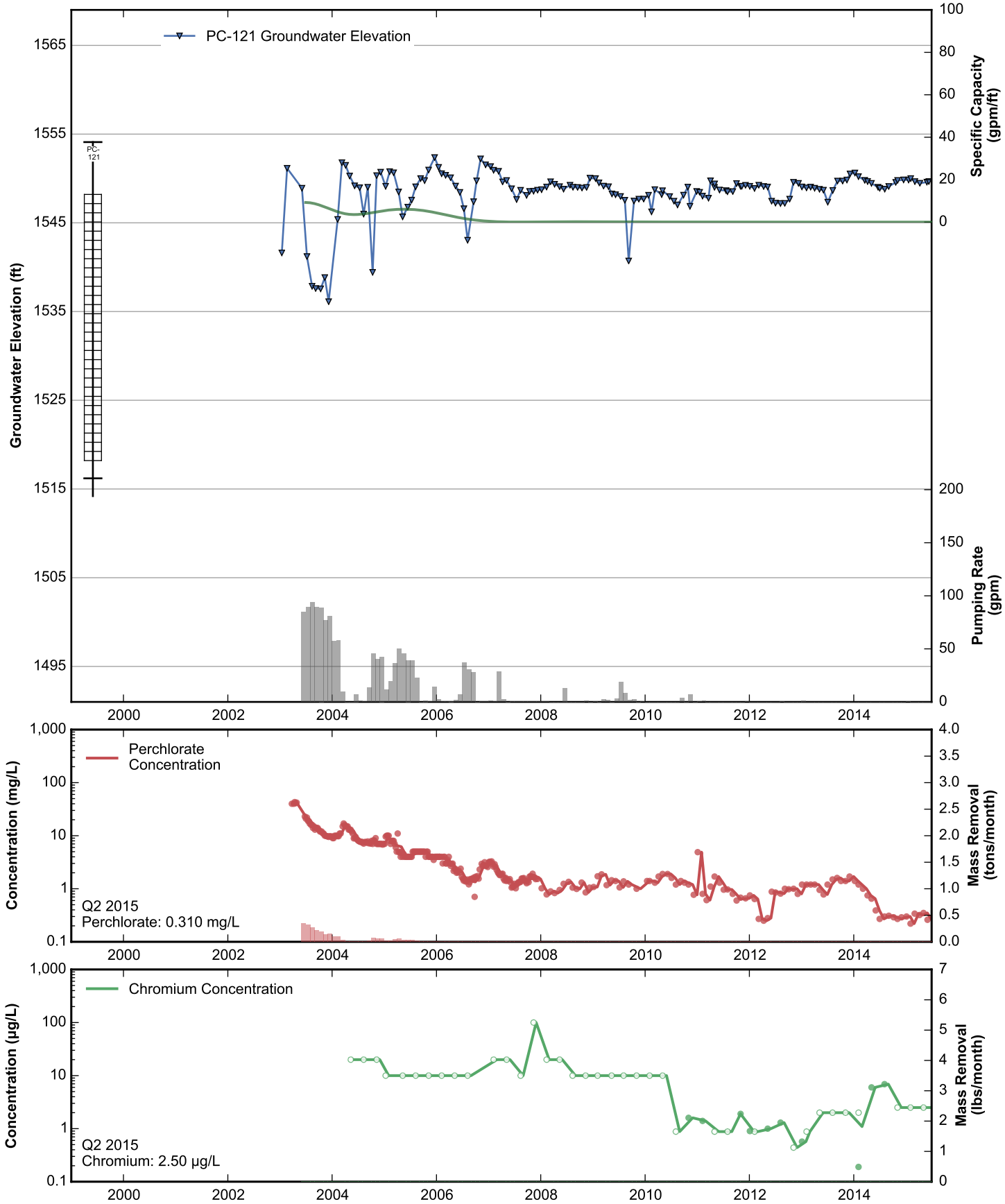

RAMBOLL ENVIRON

Data Sheet for Well PC-121
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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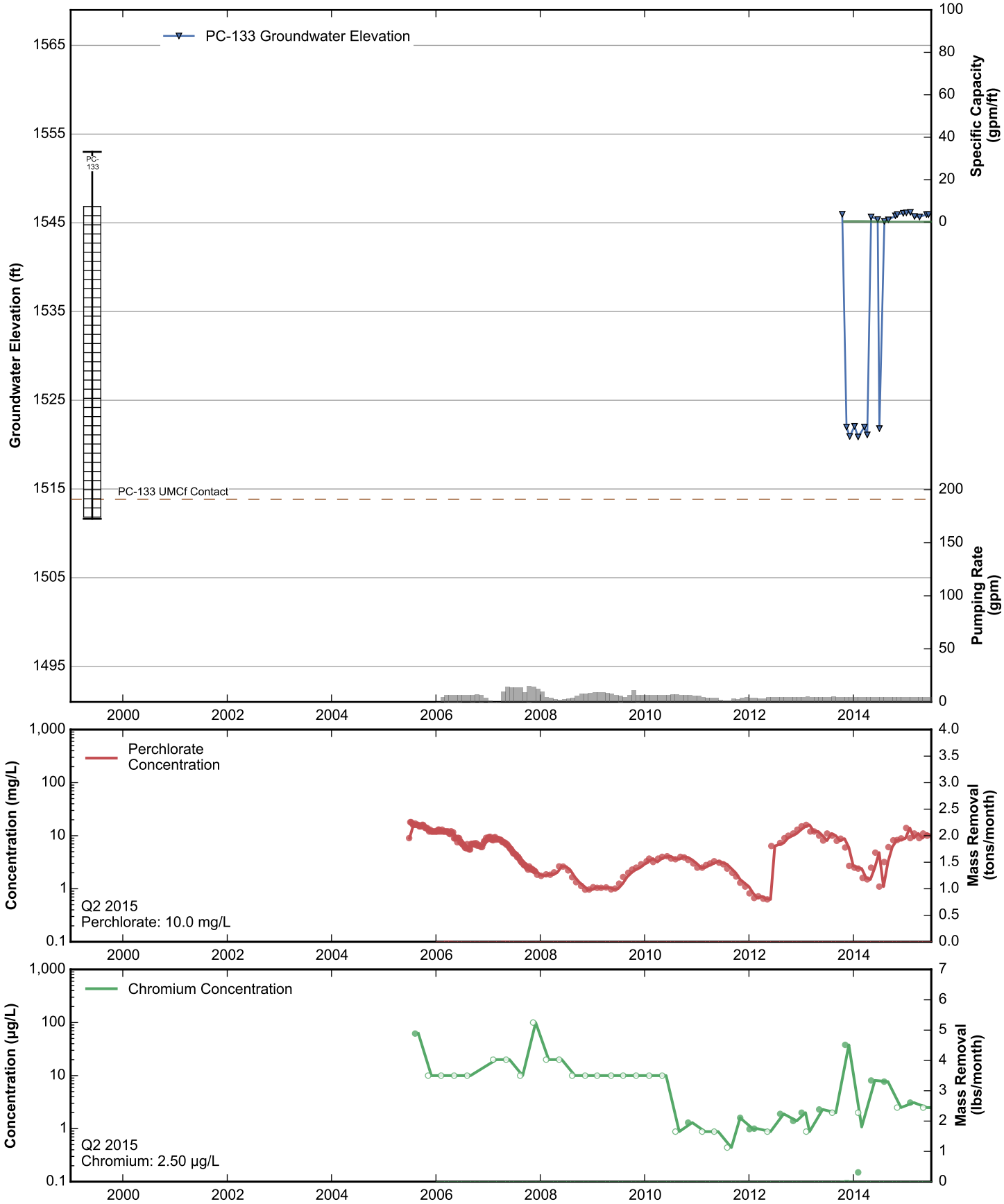

RAMBOLL ENVIRON

Data Sheet for Well PC-133
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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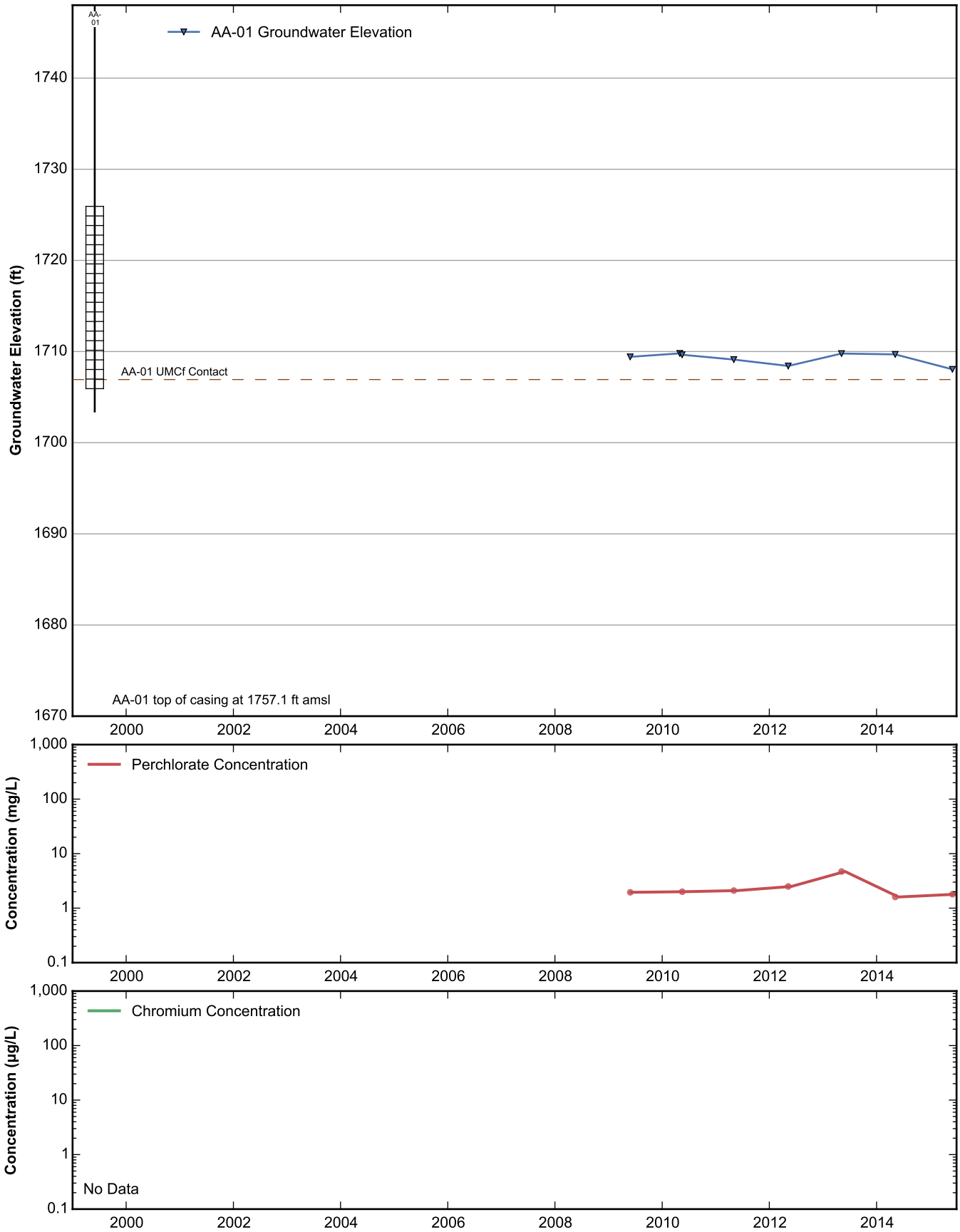
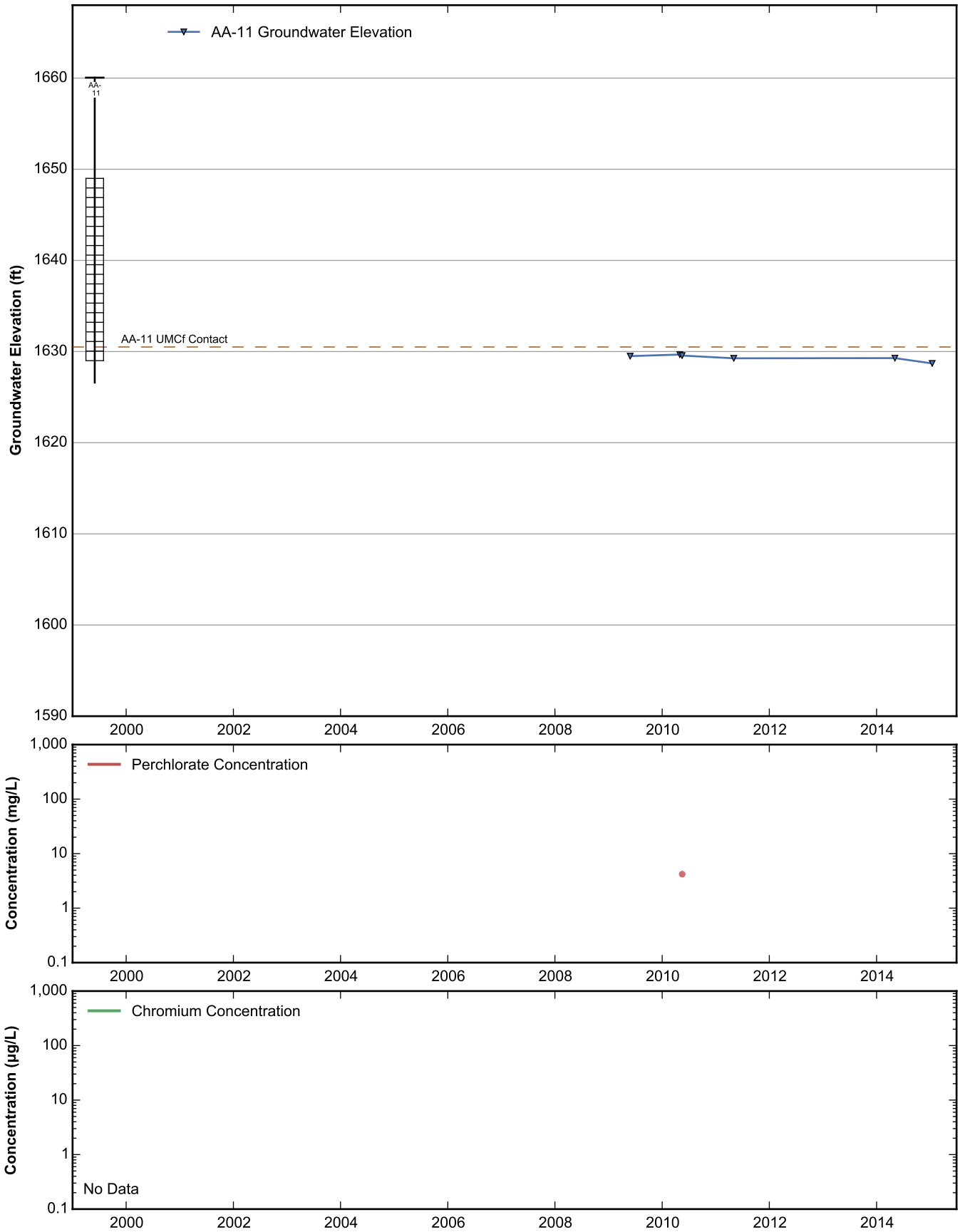


RAMBOLL ENVIRON

Data Sheet for Well AA-01
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well AA-11
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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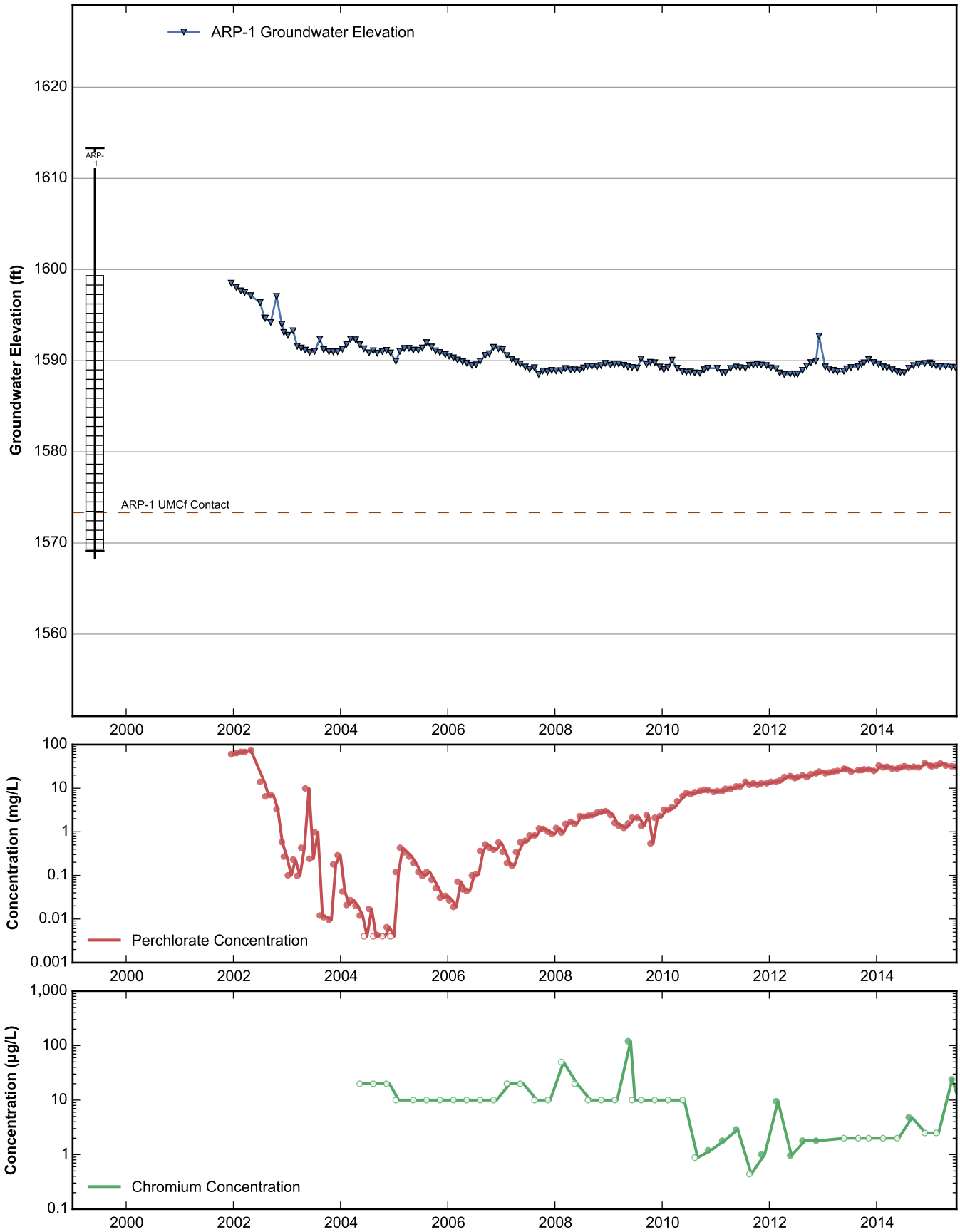
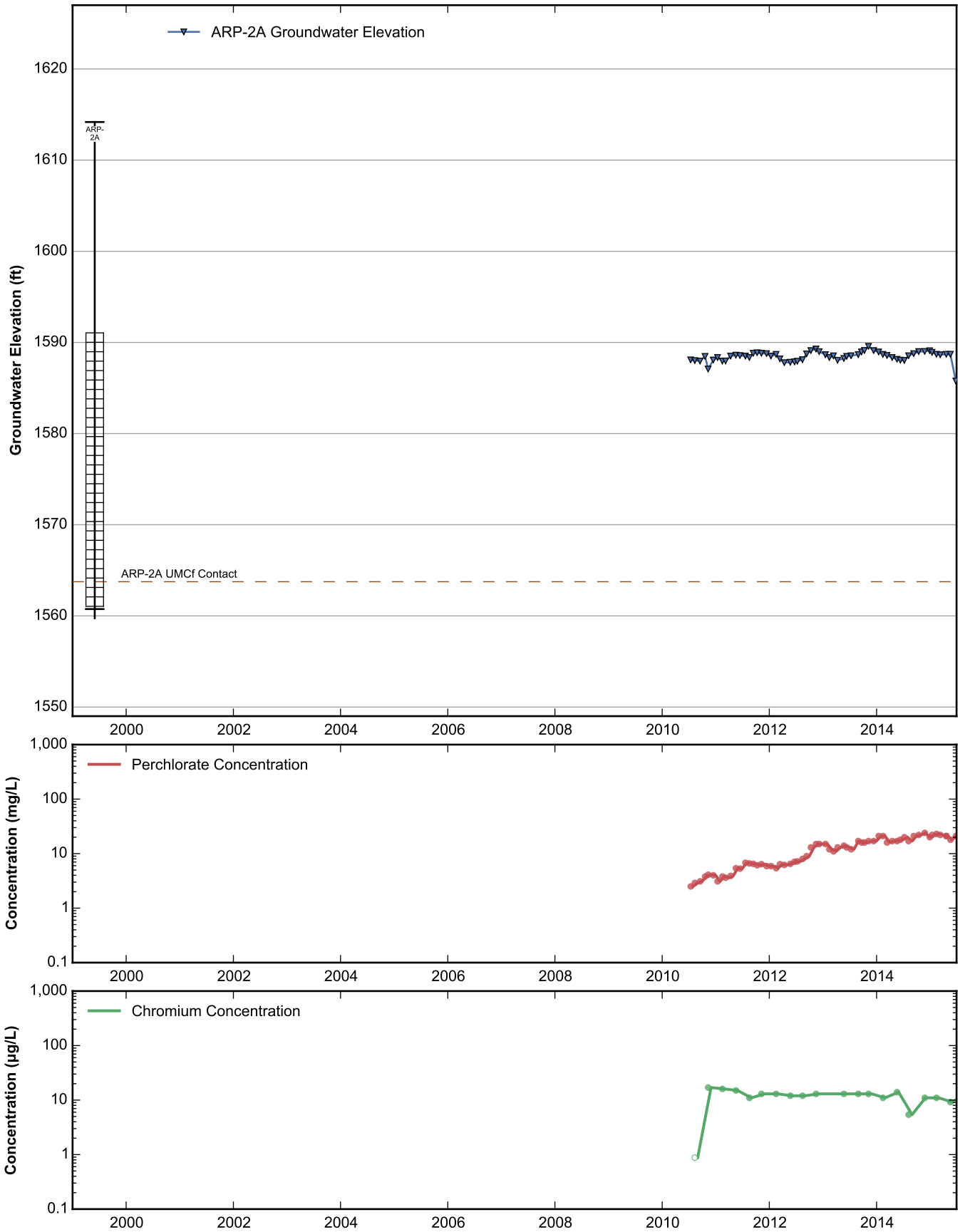


RAMBOLL ENVIRON

Data Sheet for Well ARP-1
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

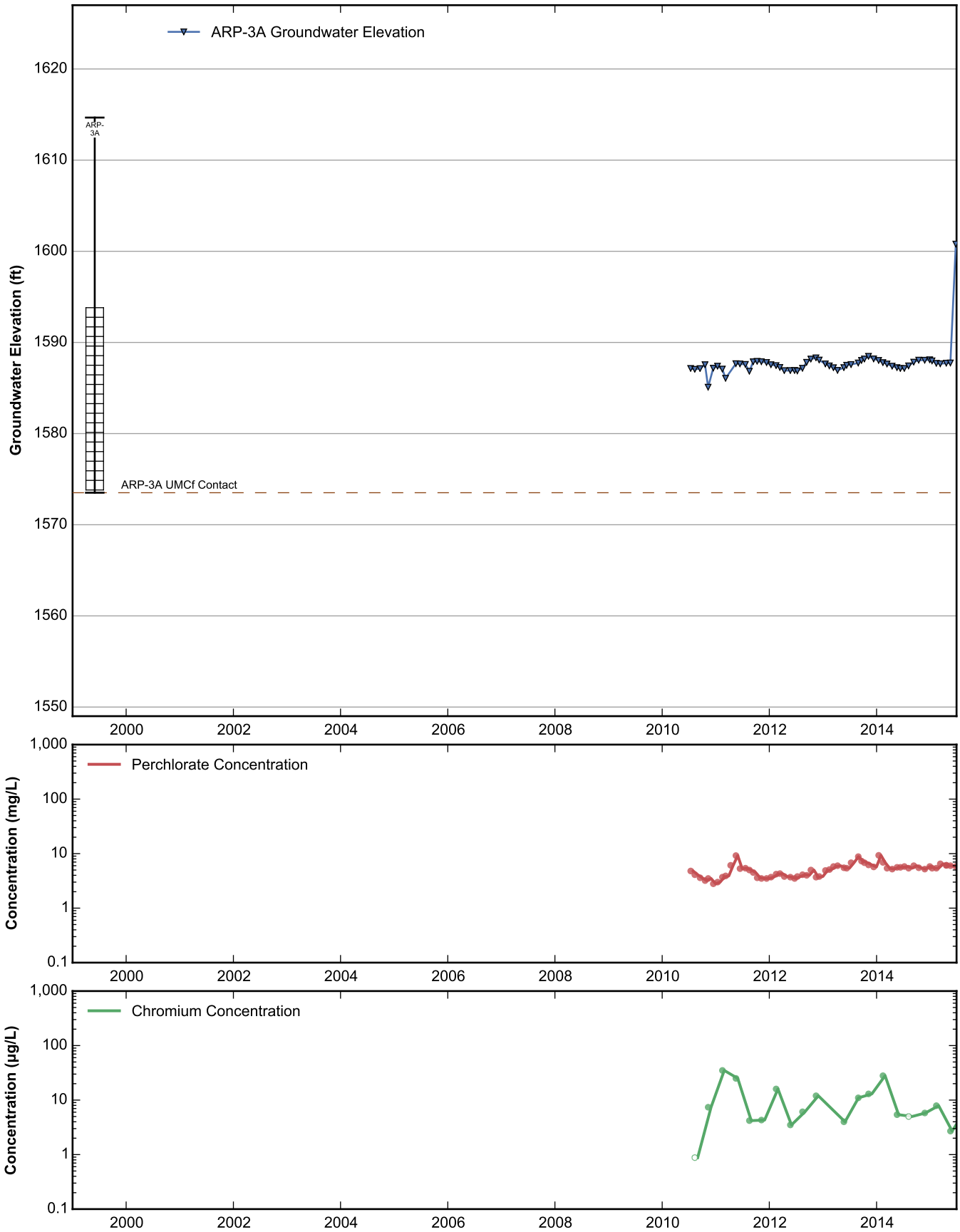


RAMBOLL ENVIRON

Data Sheet for Well ARP-2A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well ARP-3A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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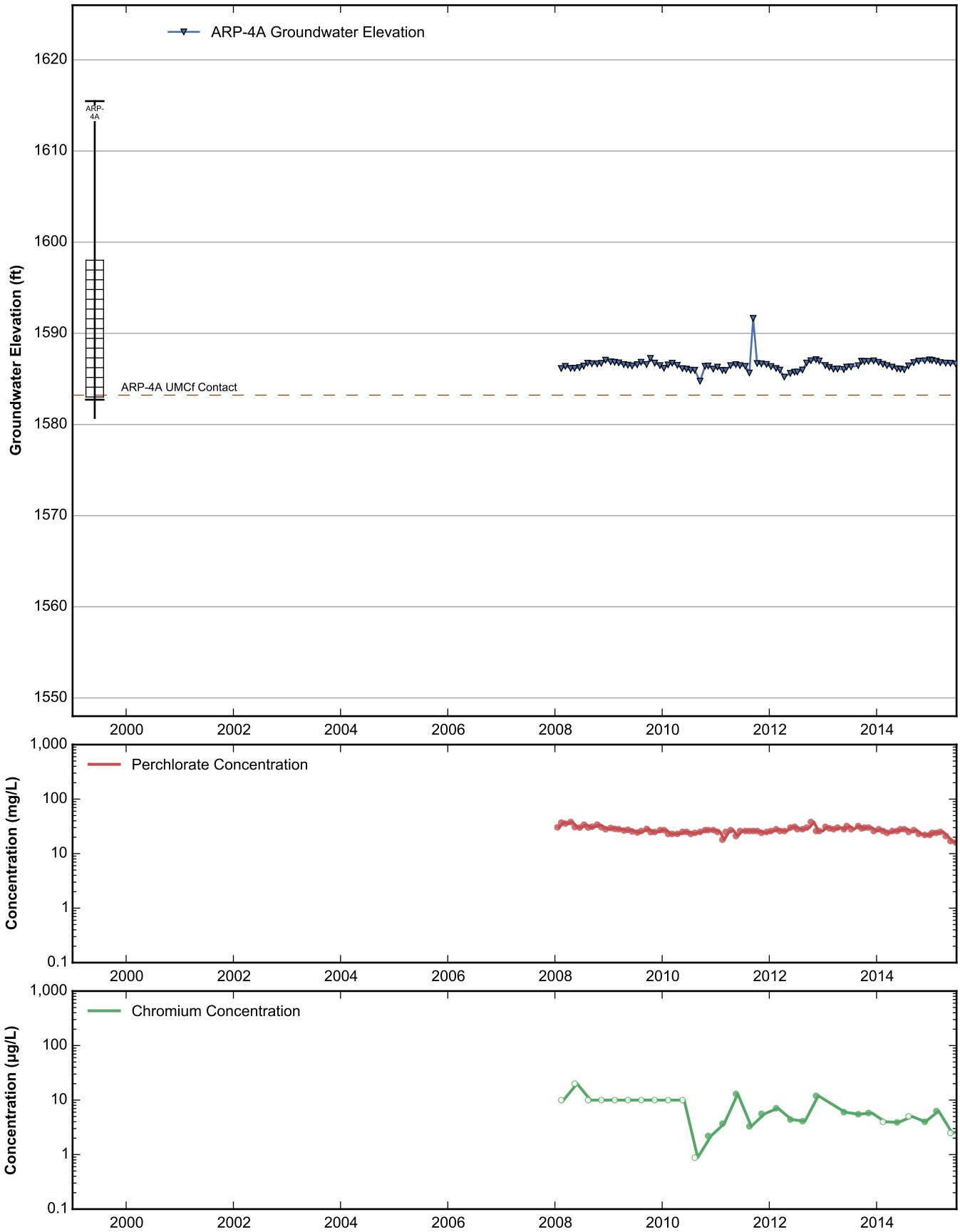

RAMBOLL ENVIRON

Data Sheet for Well ARP-4A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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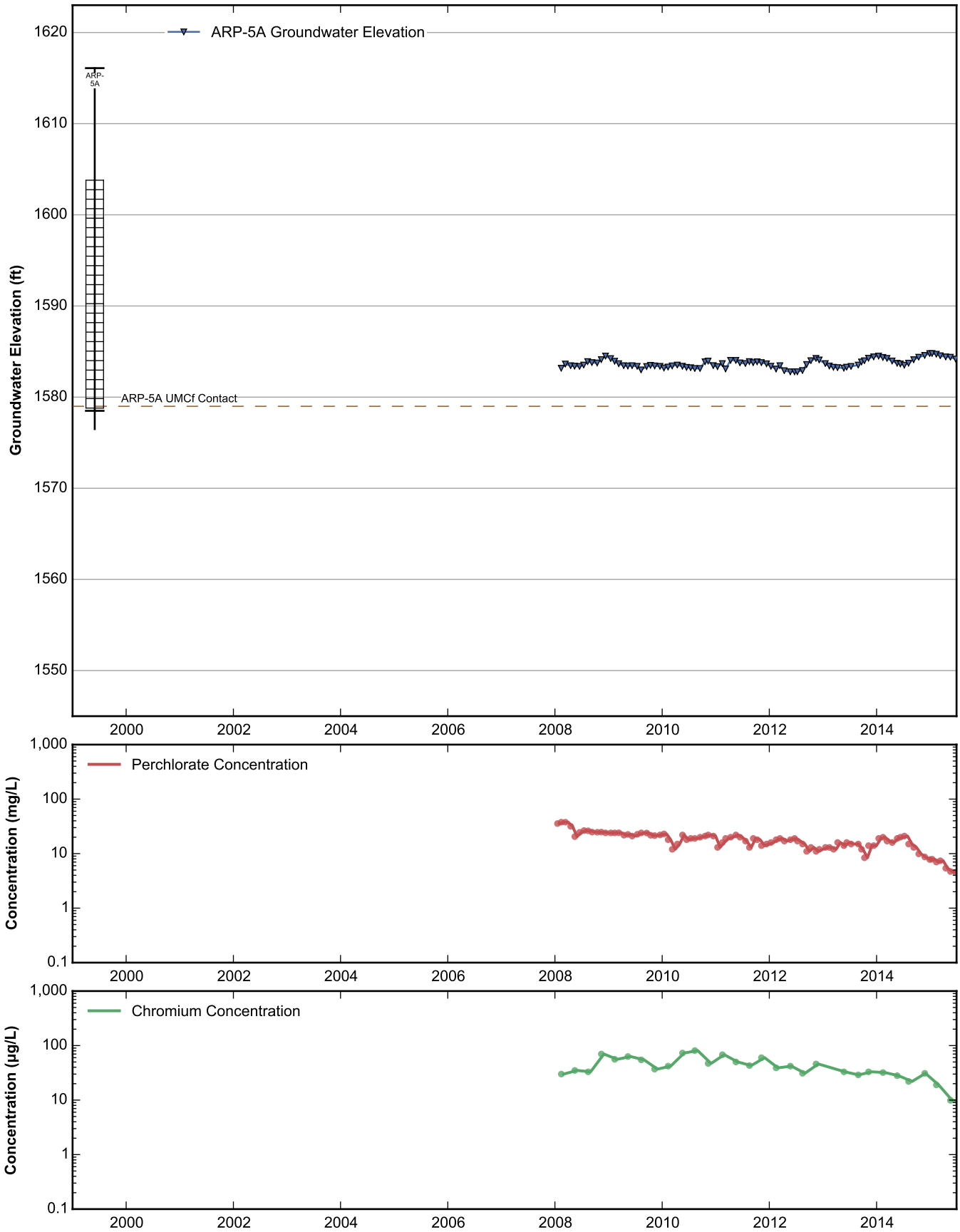
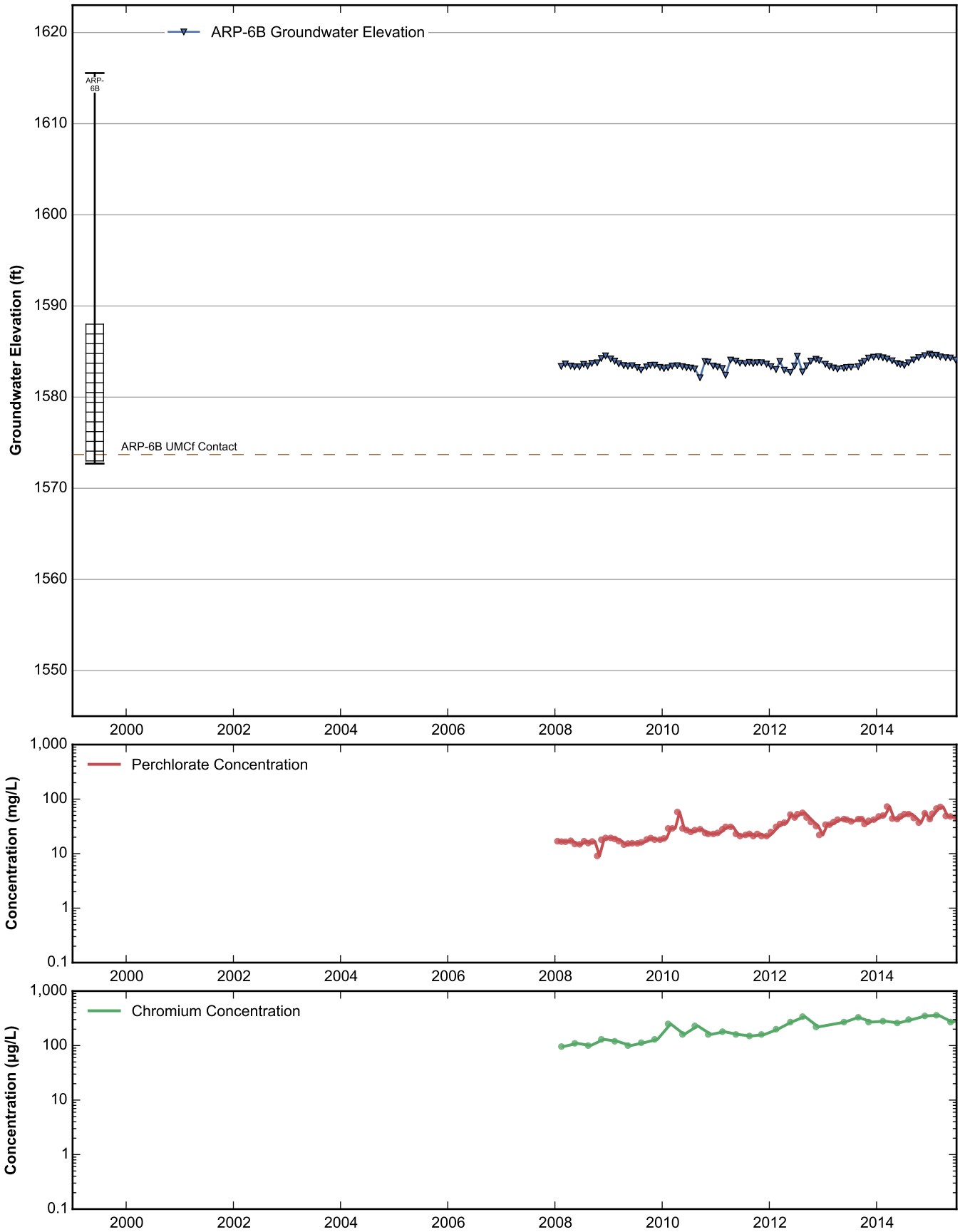


RAMBOLL ENVIRON

Data Sheet for Well ARP-5A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

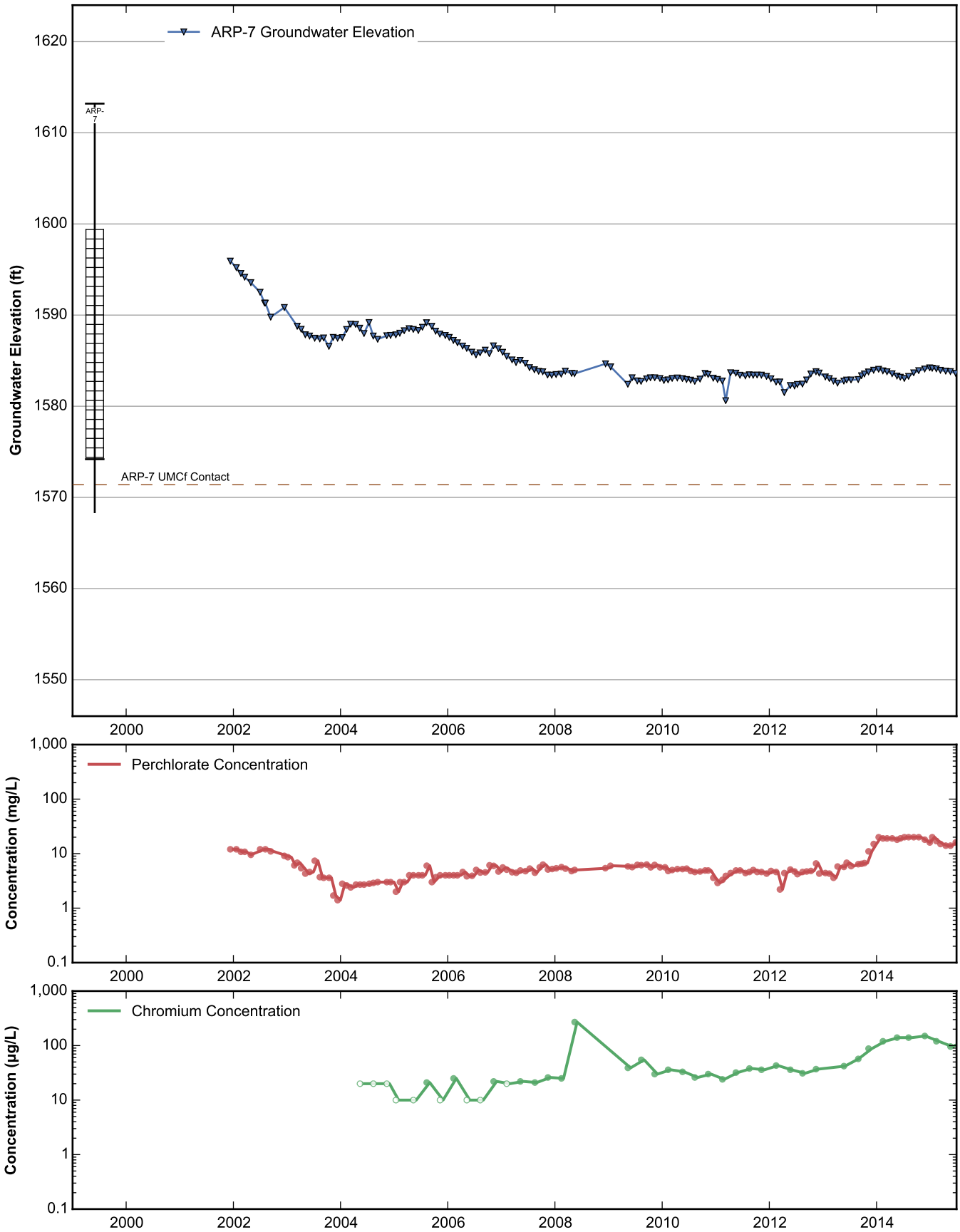
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well ARP-6B
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:



RAMBOLL ENVIRON

Data Sheet for Well ARP-7
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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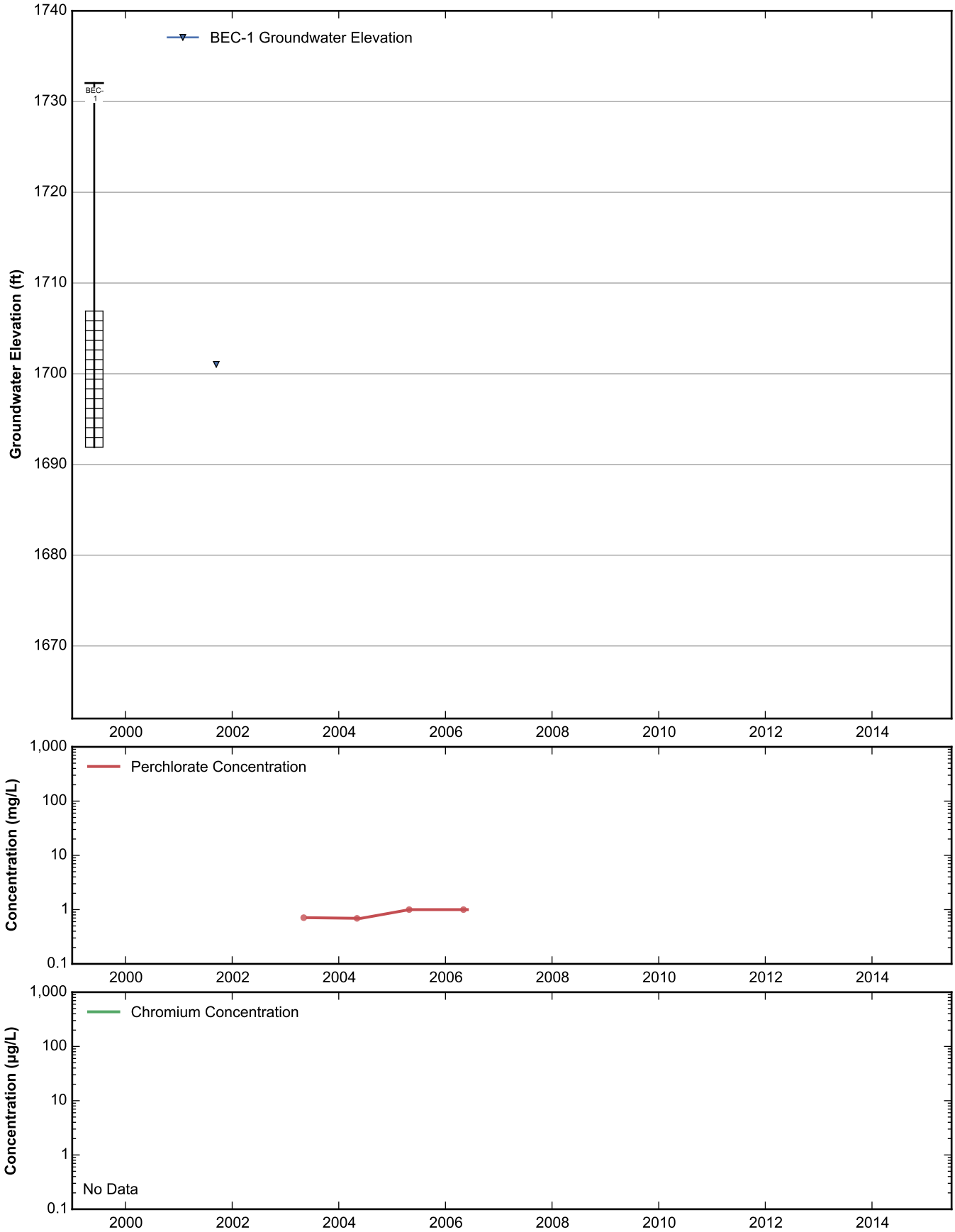

RAMBOLL ENVIRON

Data Sheet for Well BEC-1
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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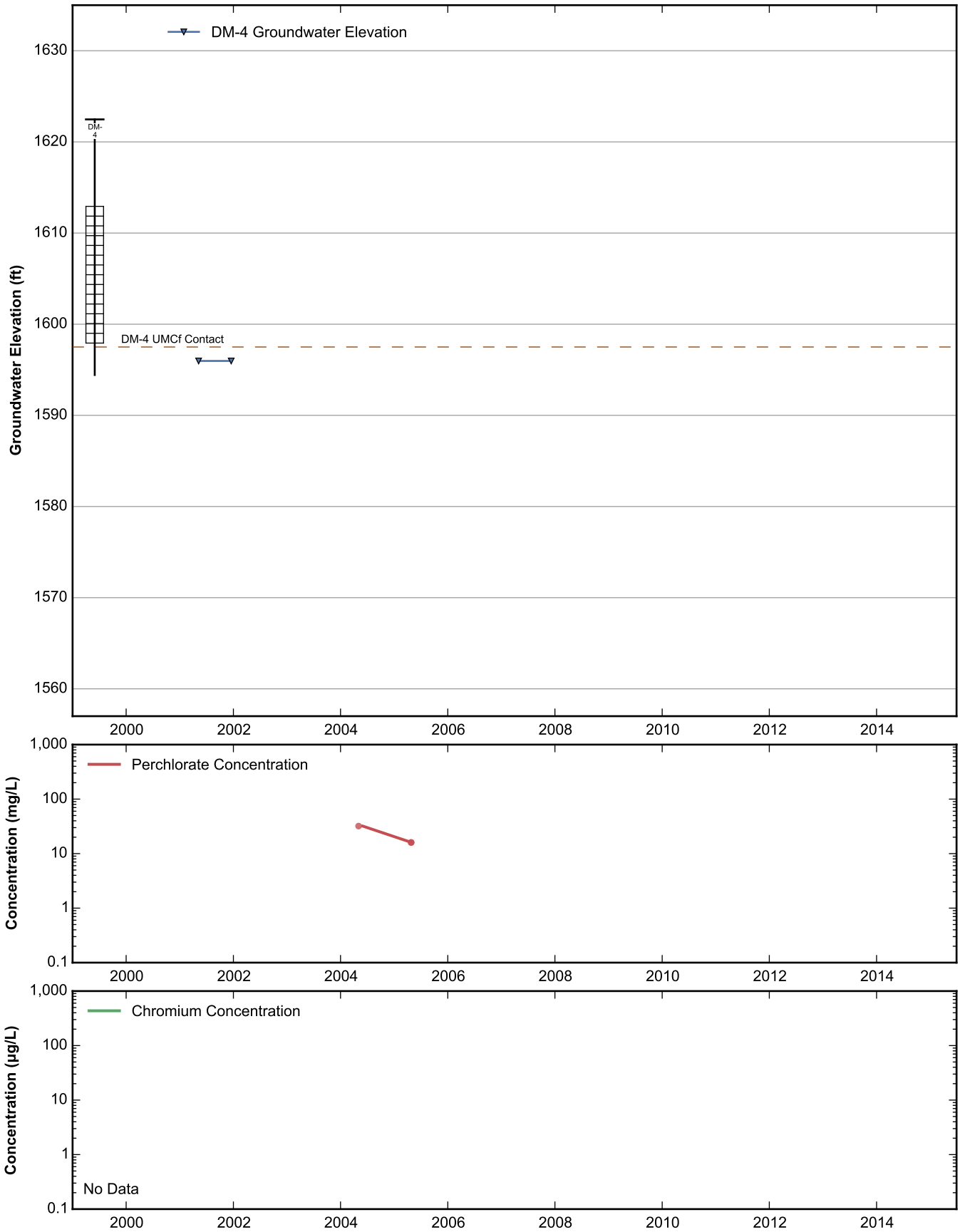

RAMBOLL ENVIRON

Data Sheet for Well DM-4
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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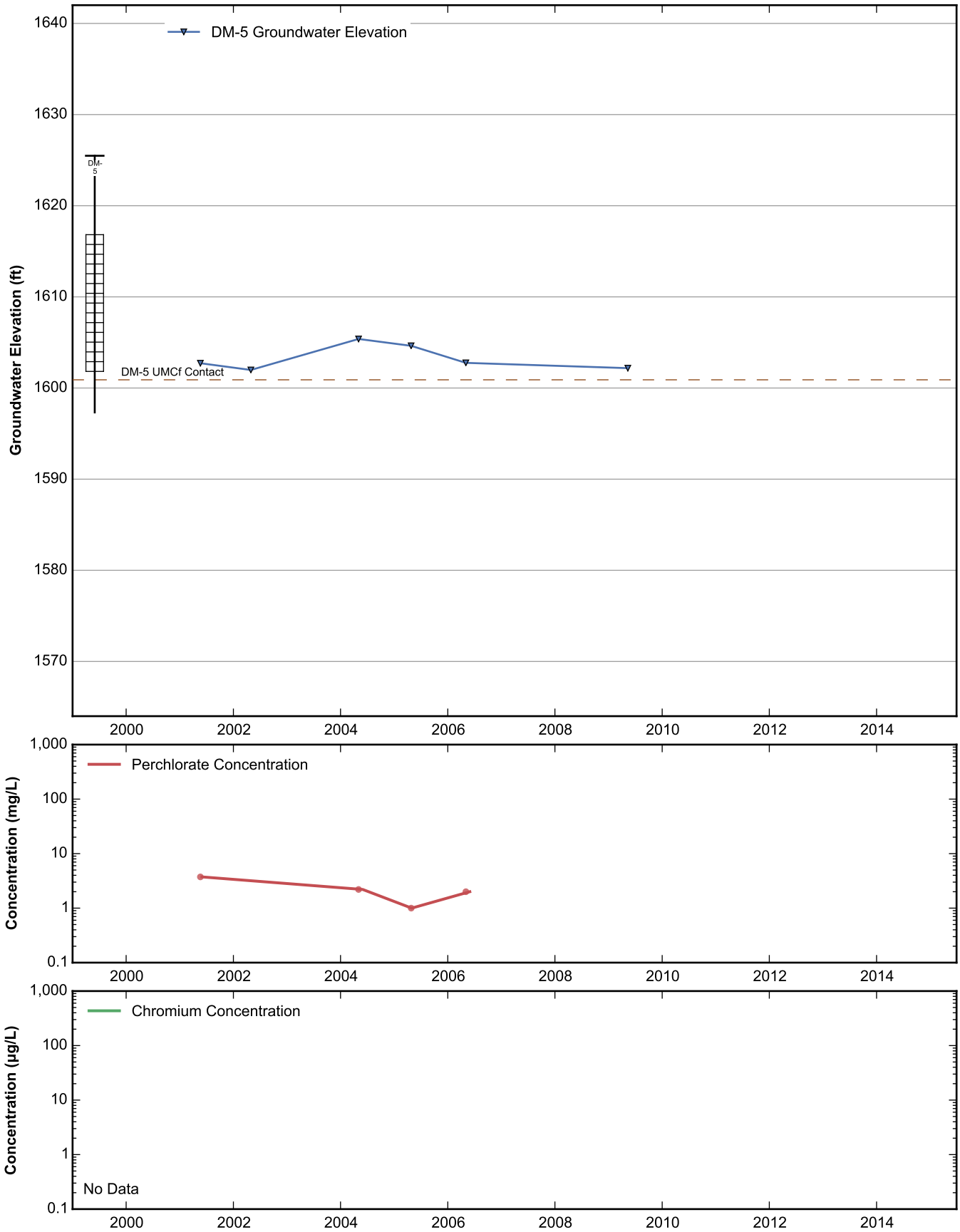
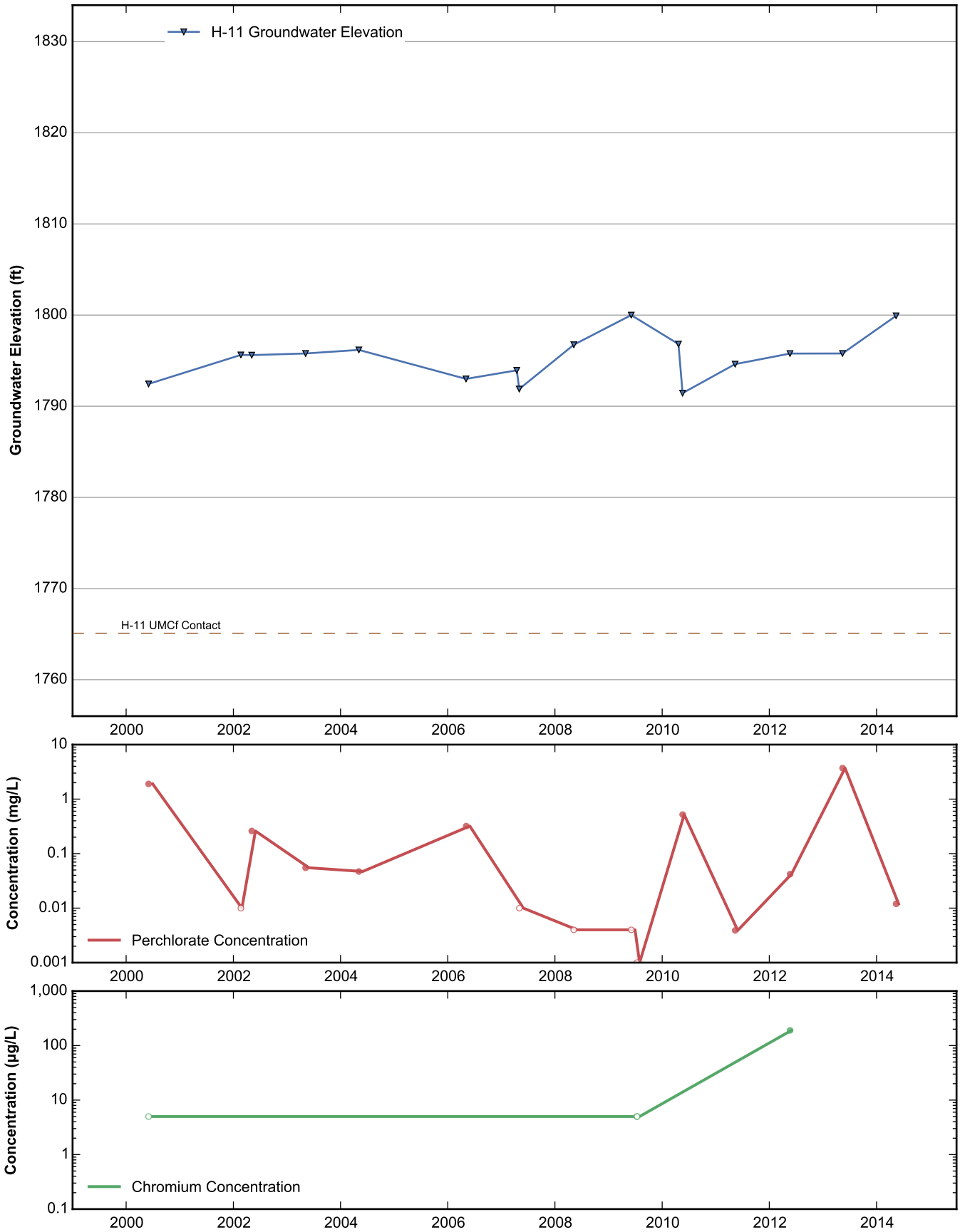


RAMBOLL ENVIRON

Data Sheet for Well DM-5
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:



RAMBOLL ENVIRON

Data Sheet for Well H-11
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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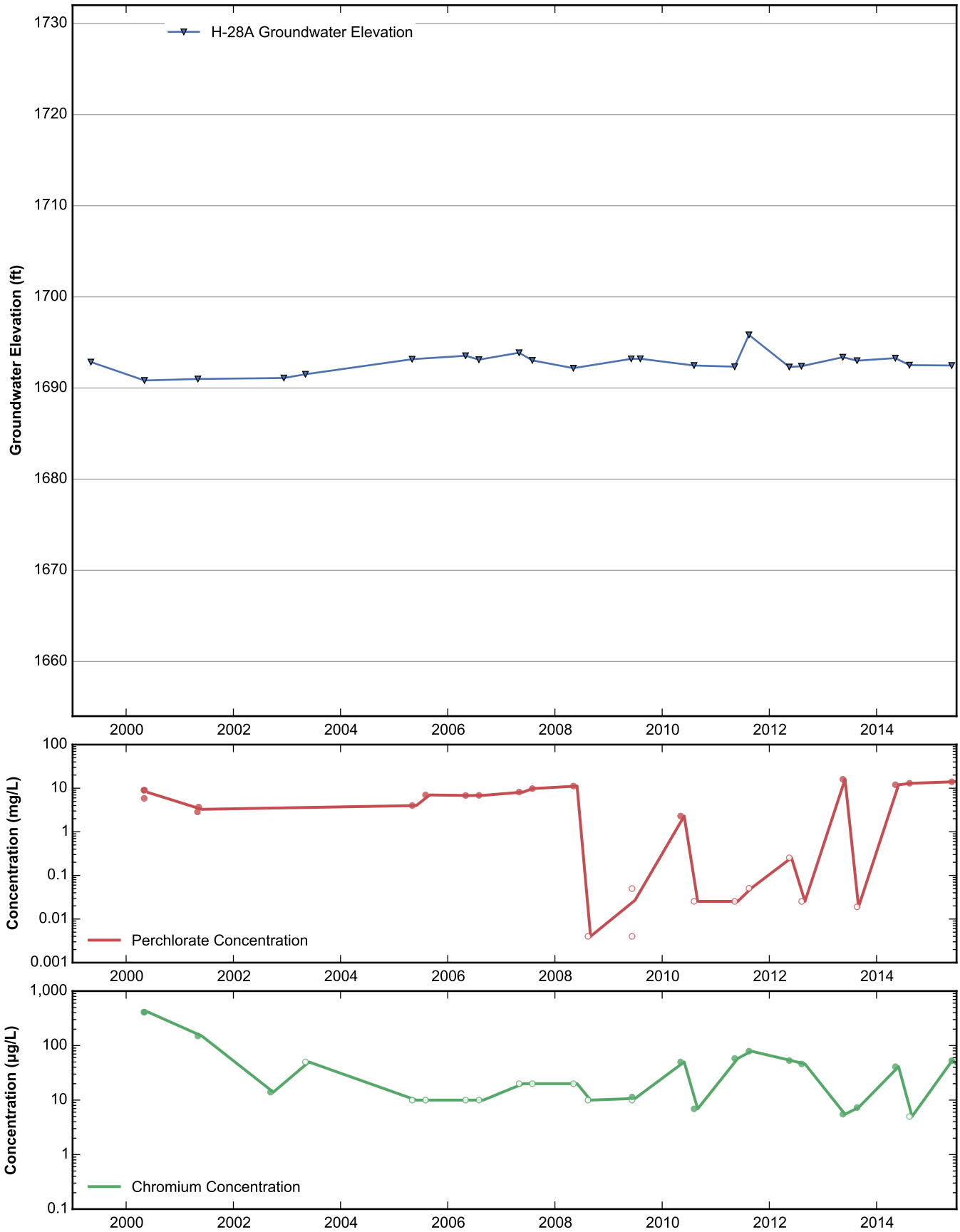
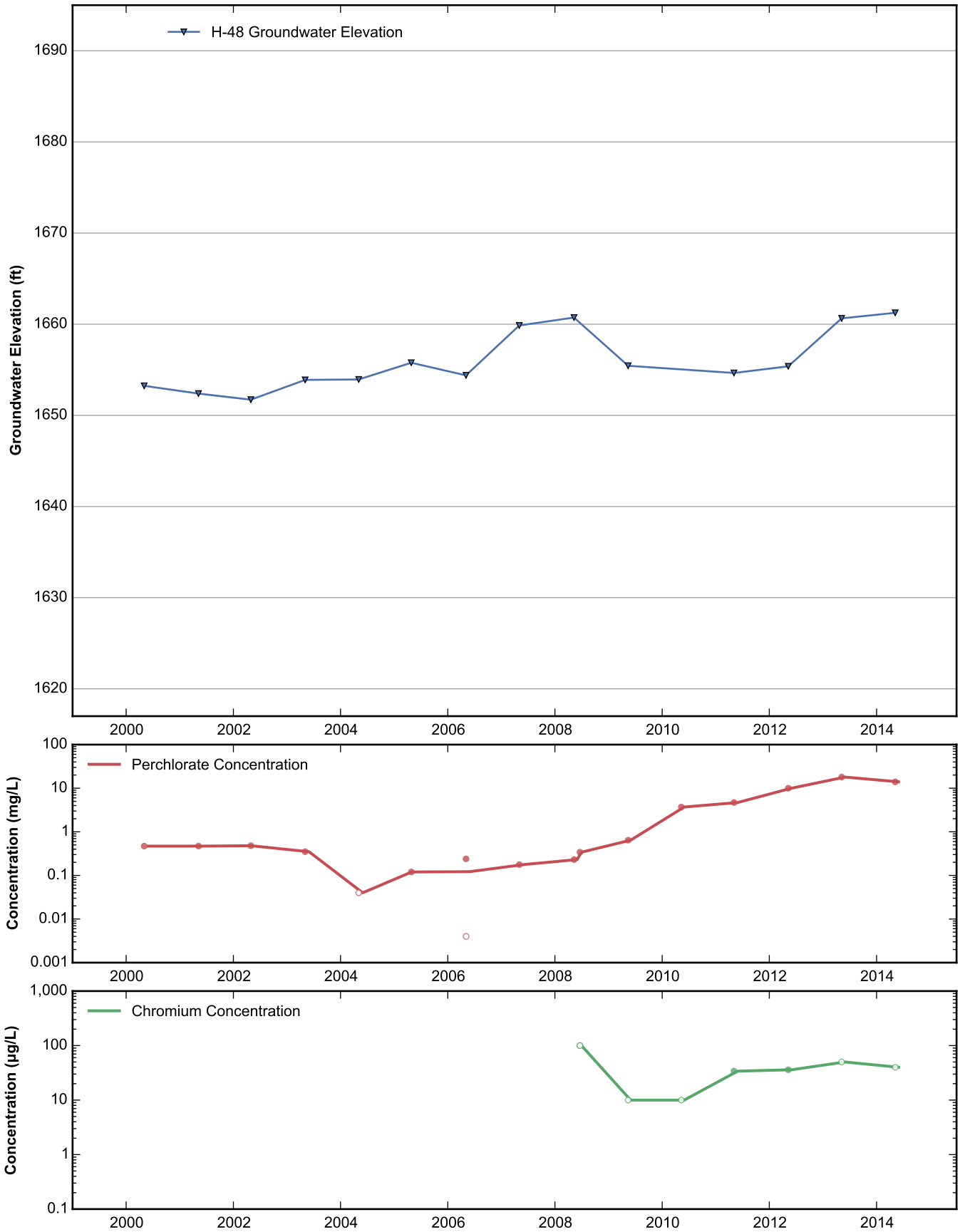


RAMBOLL ENVIRON

Data Sheet for Well H-28A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

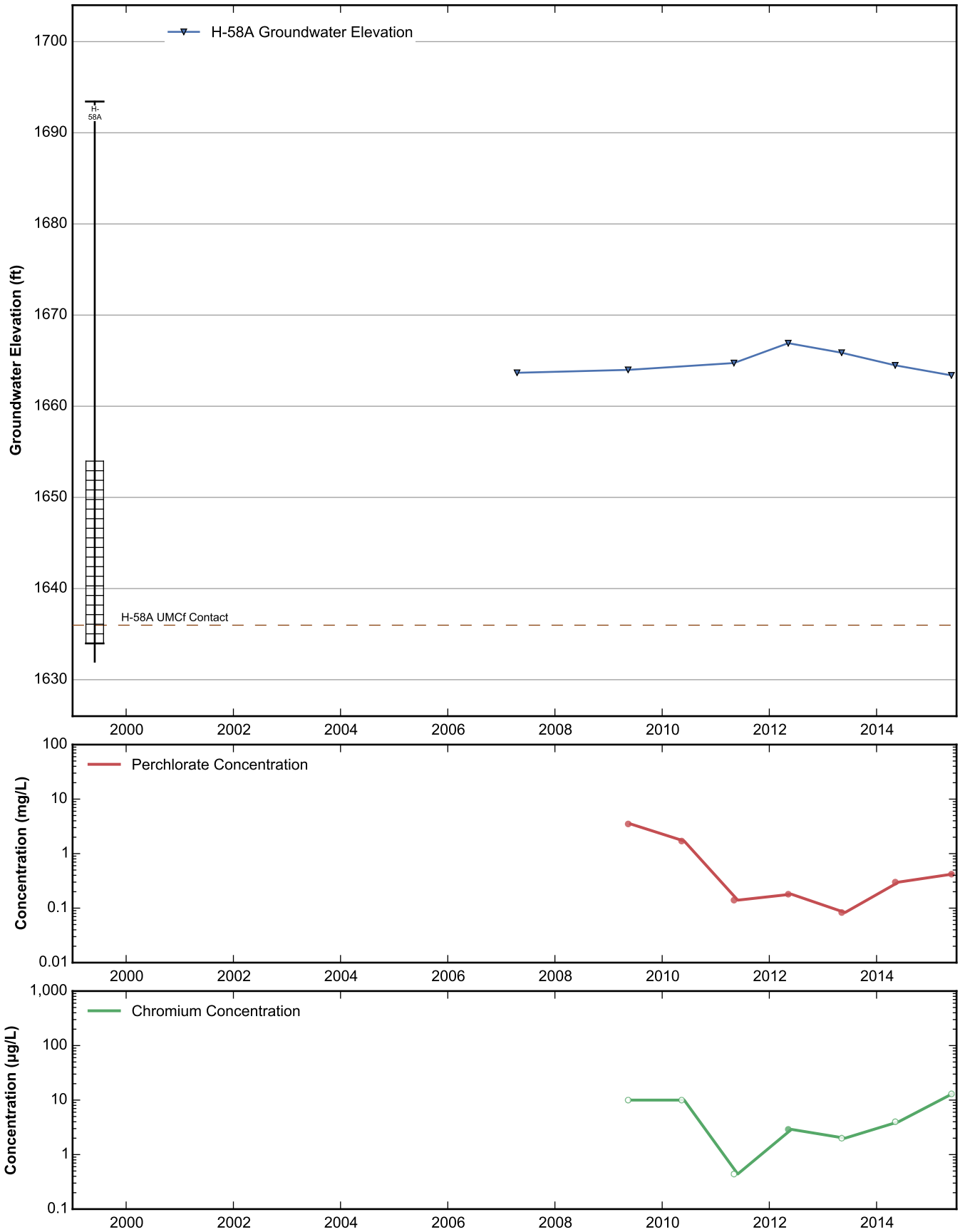


RAMBOLL ENVIRON

Data Sheet for Well H-48
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

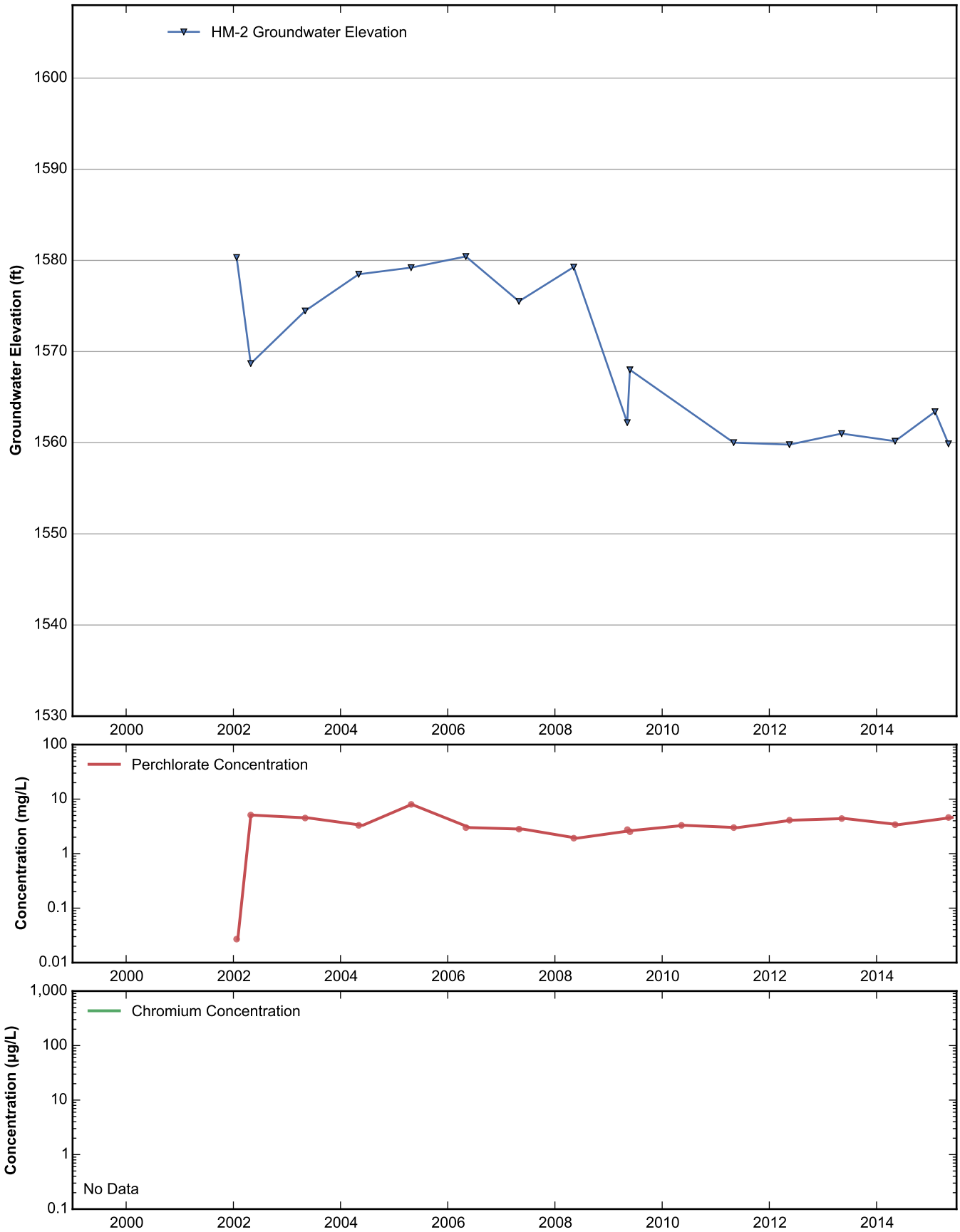


RAMBOLL ENVIRON

Data Sheet for Well H-58A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

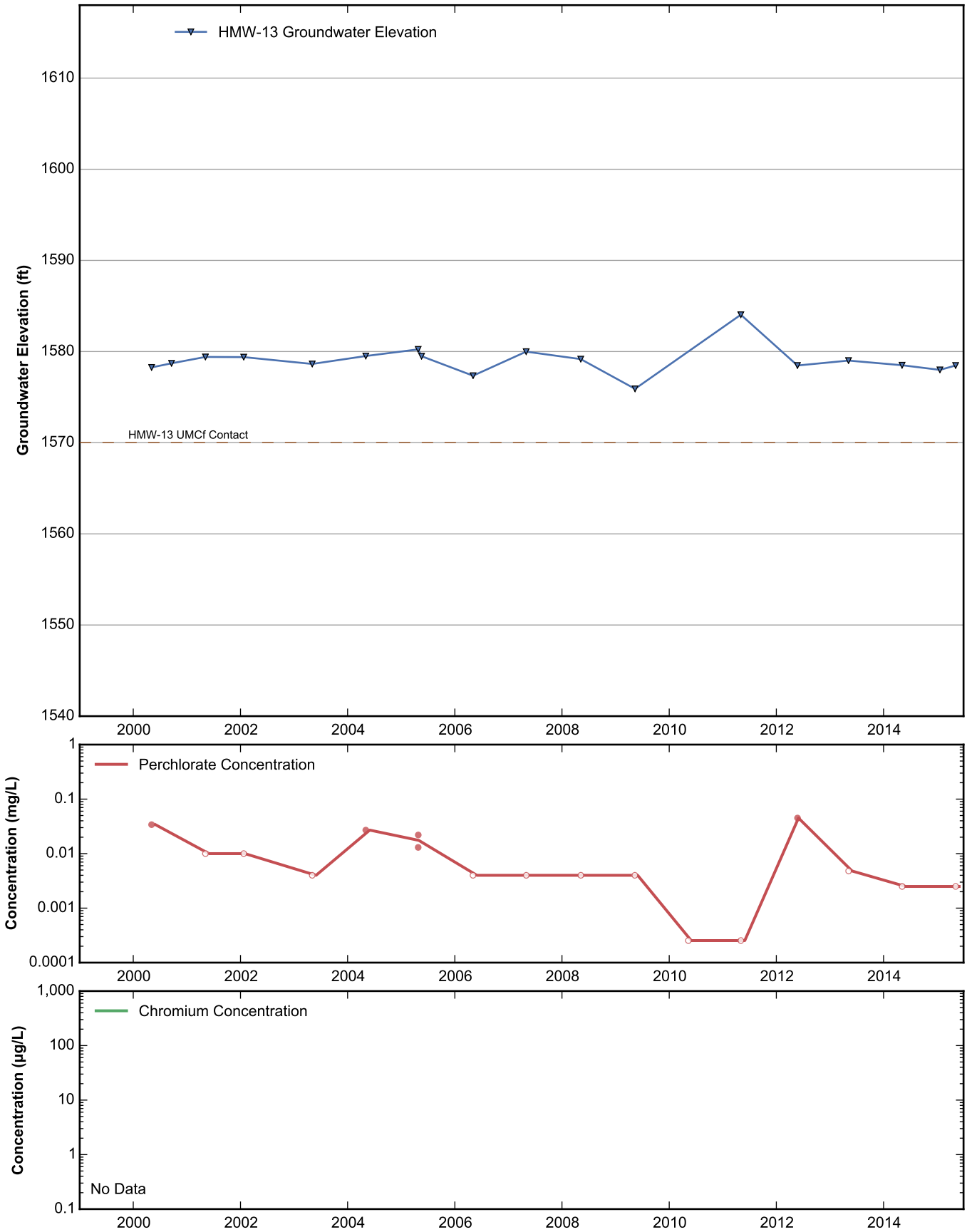


RAMBOLL ENVIRON

Data Sheet for Well HM-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

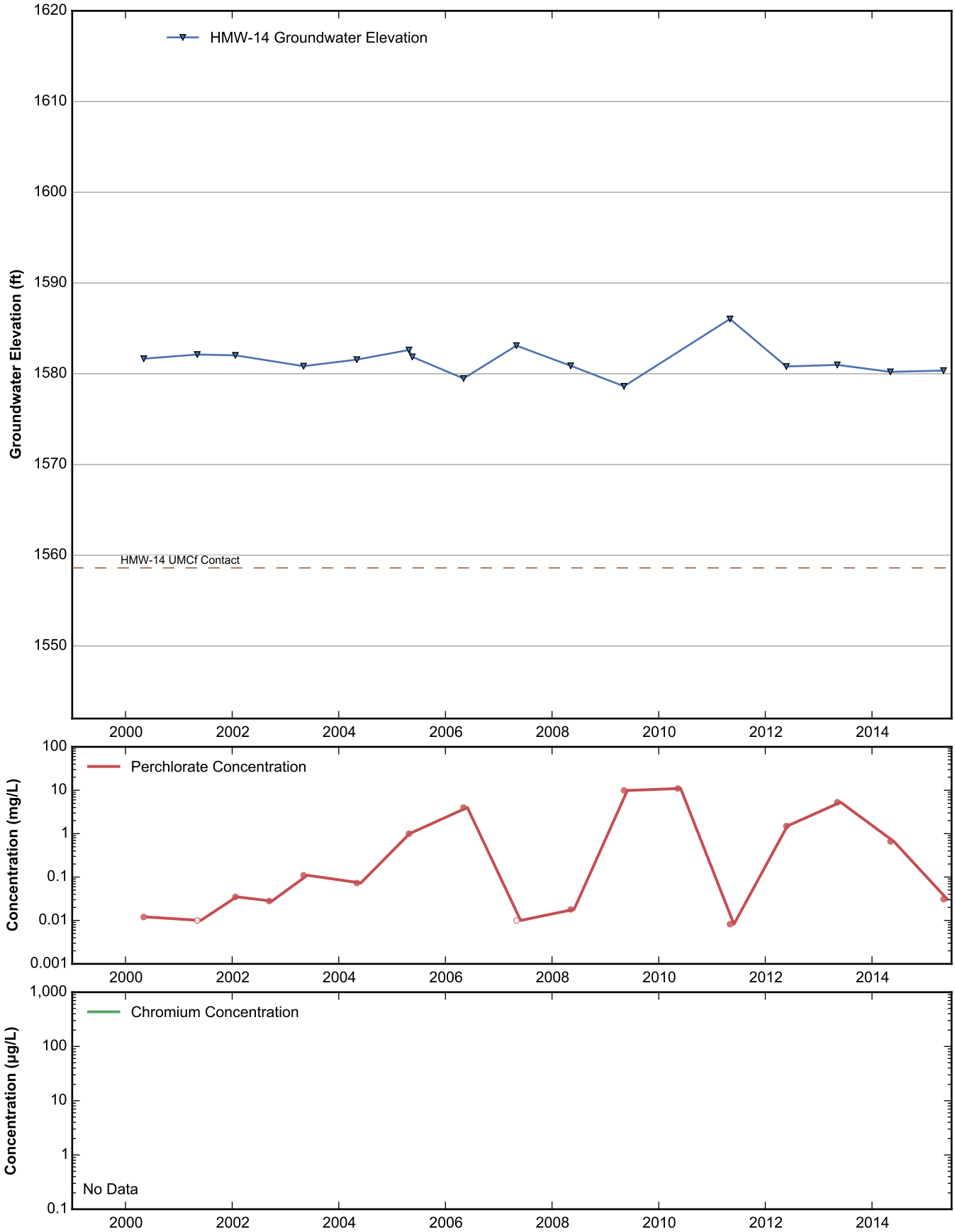


RAMBOLL ENVIRON

Data Sheet for Well HMW-13
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

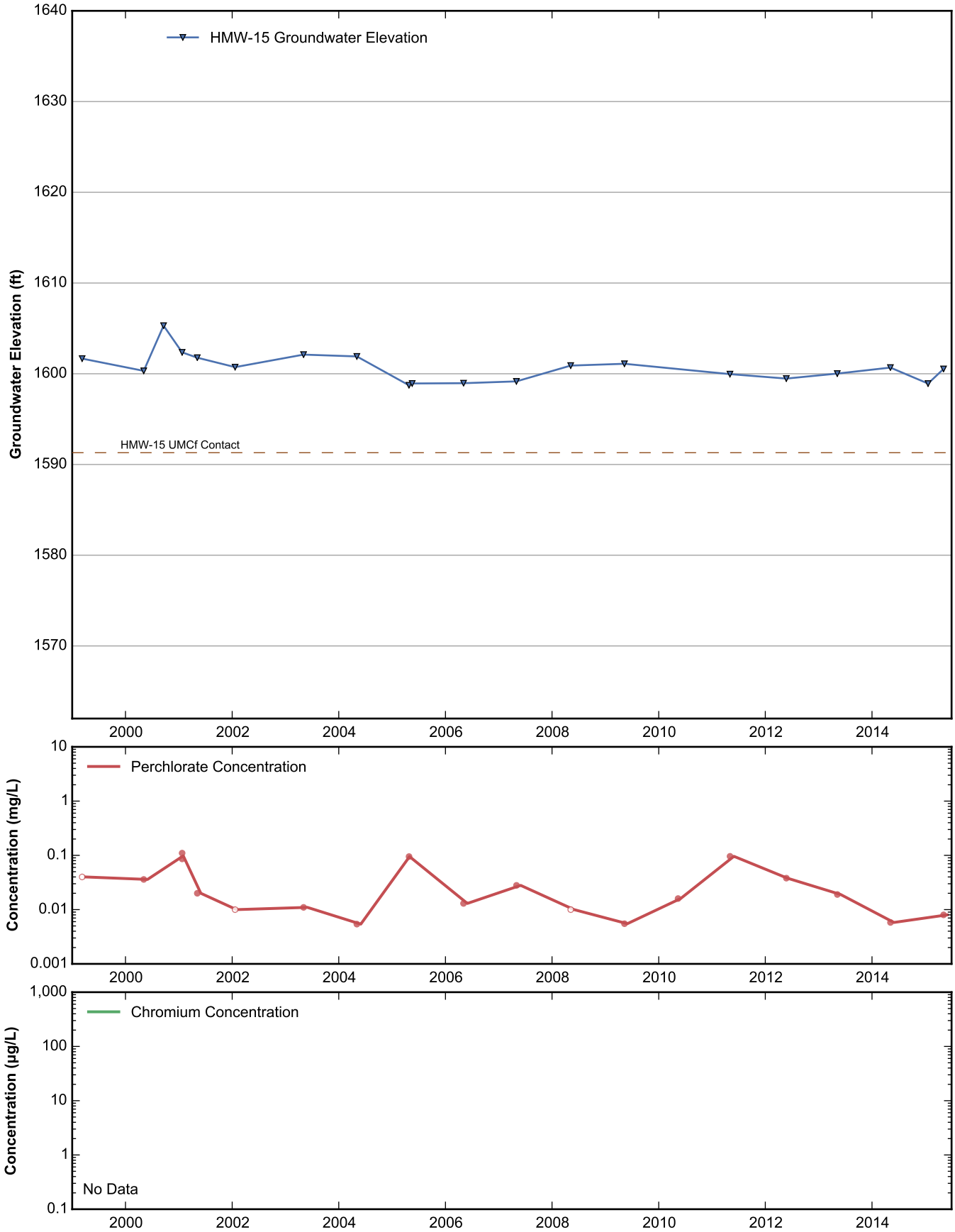


RAMBOLL ENVIRON

Data Sheet for Well HMW-14
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well HMW-15
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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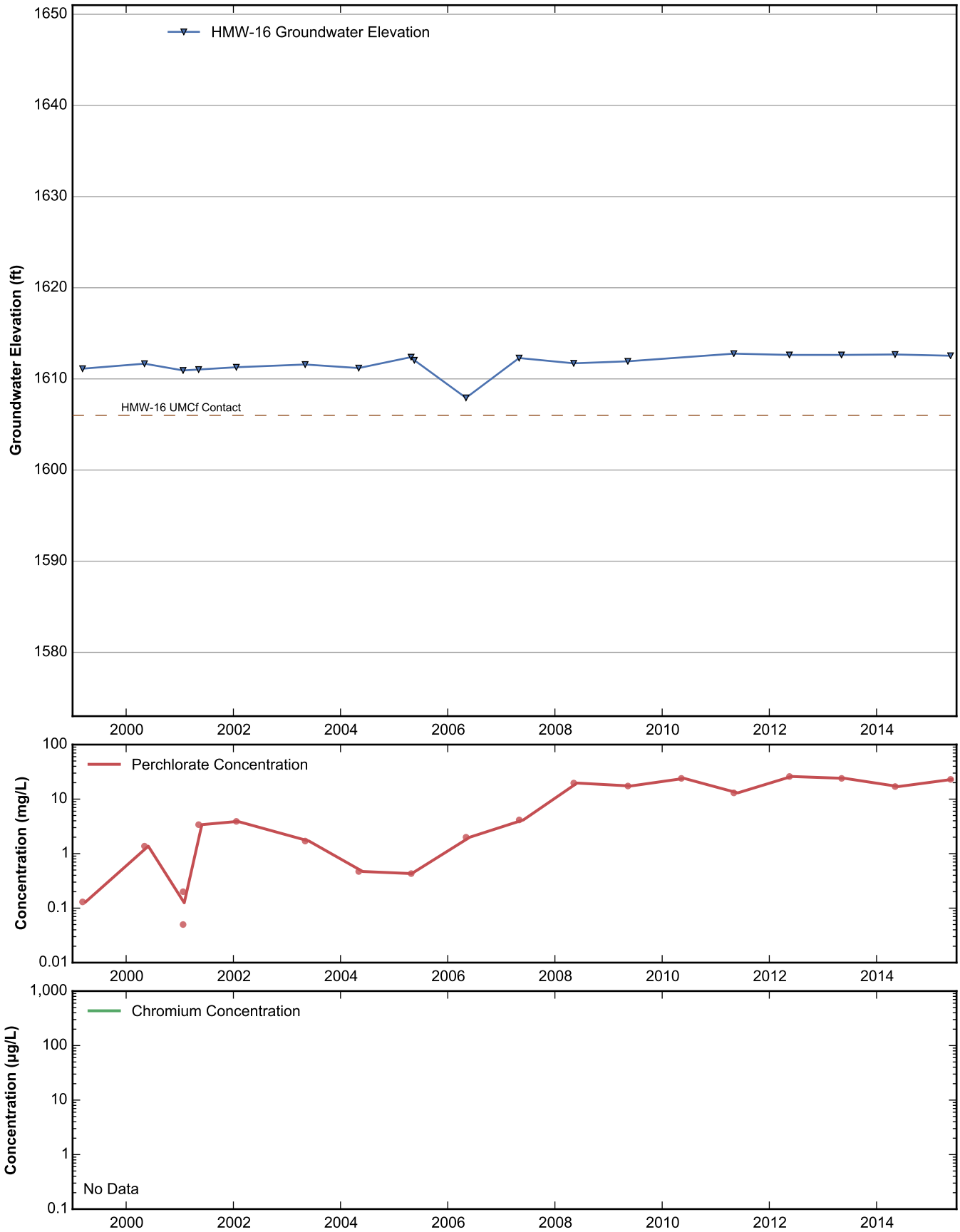

RAMBOLL ENVIRON

Data Sheet for Well HMW-16
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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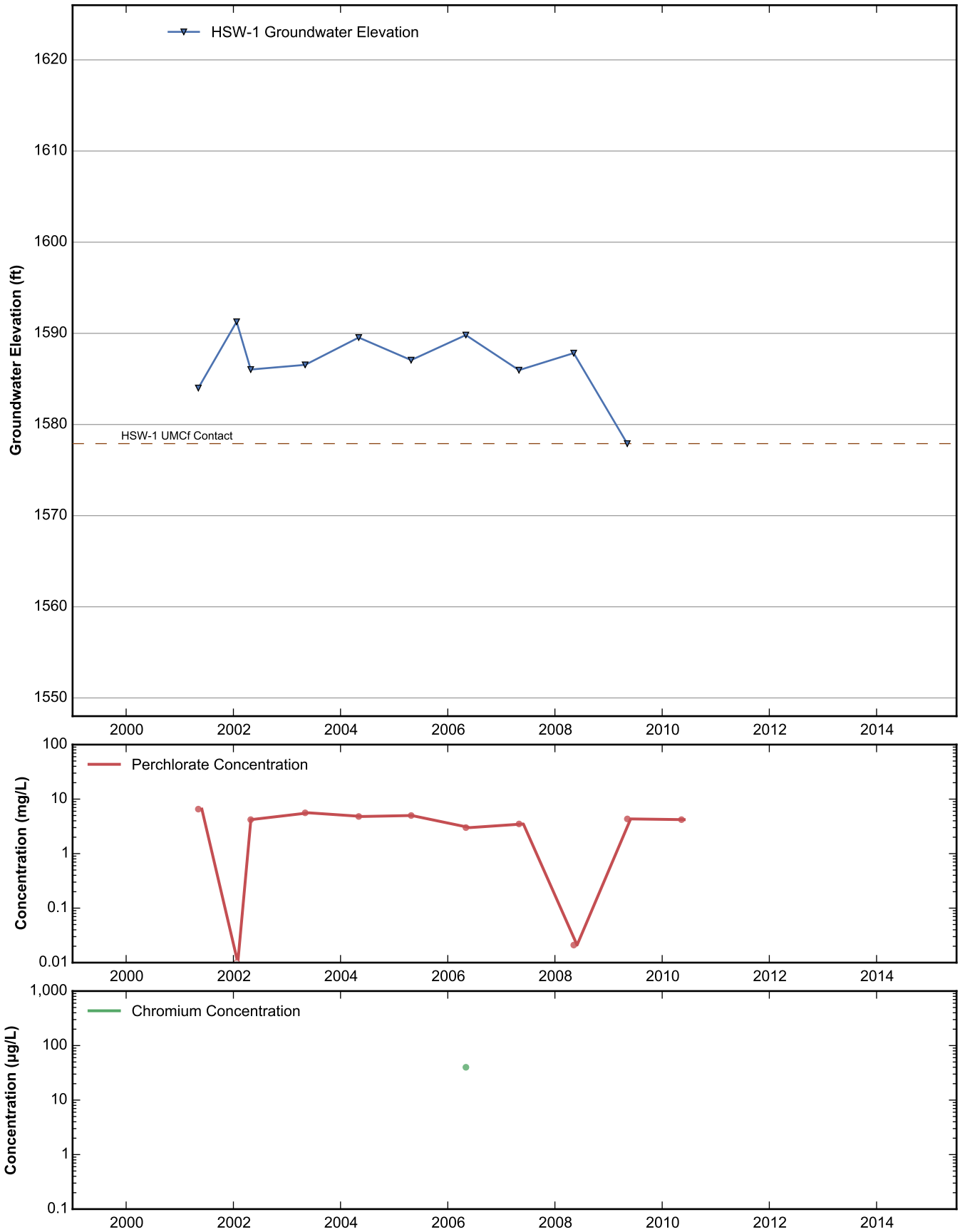

RAMBOLL ENVIRON

Data Sheet for Well HSW-1
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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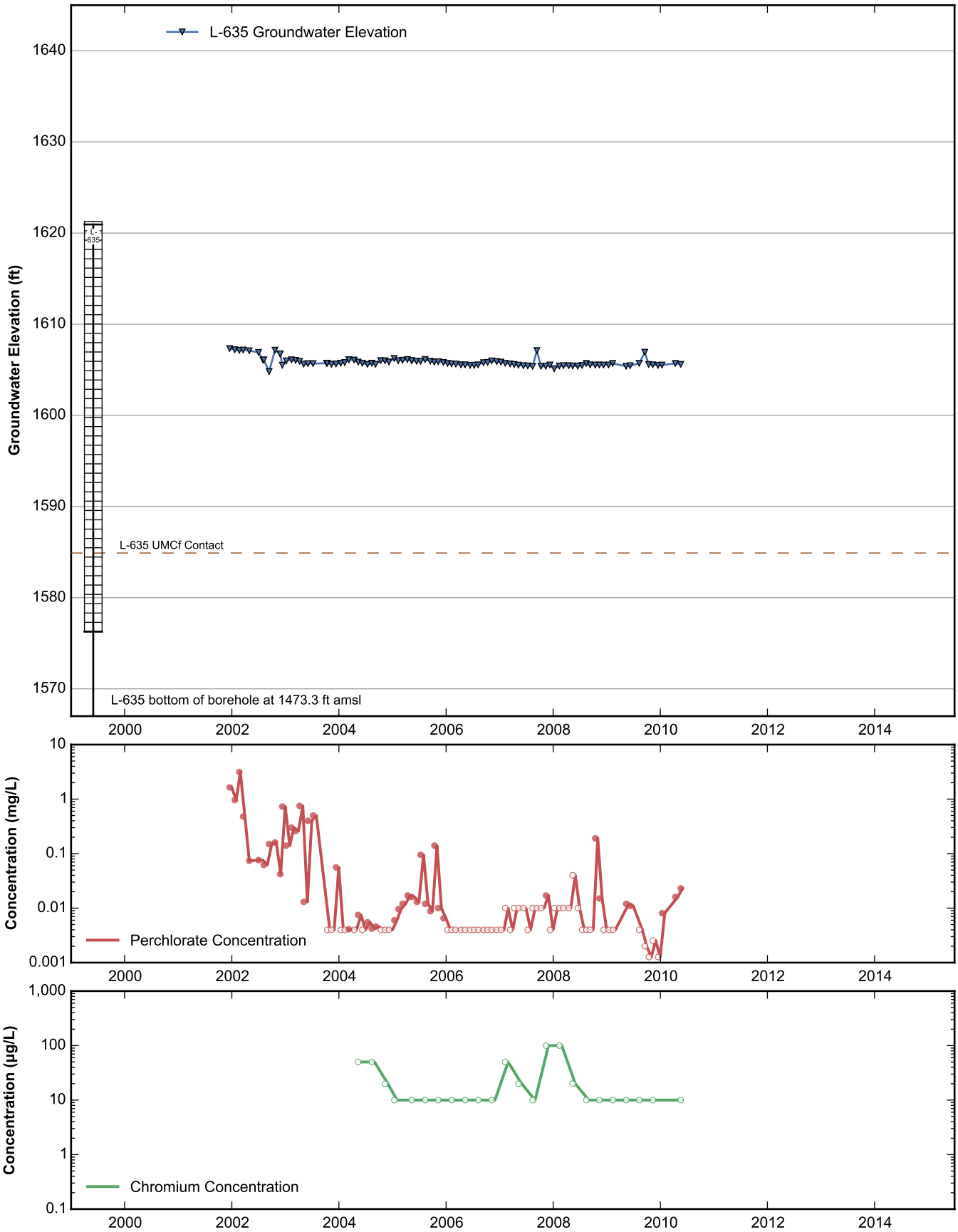
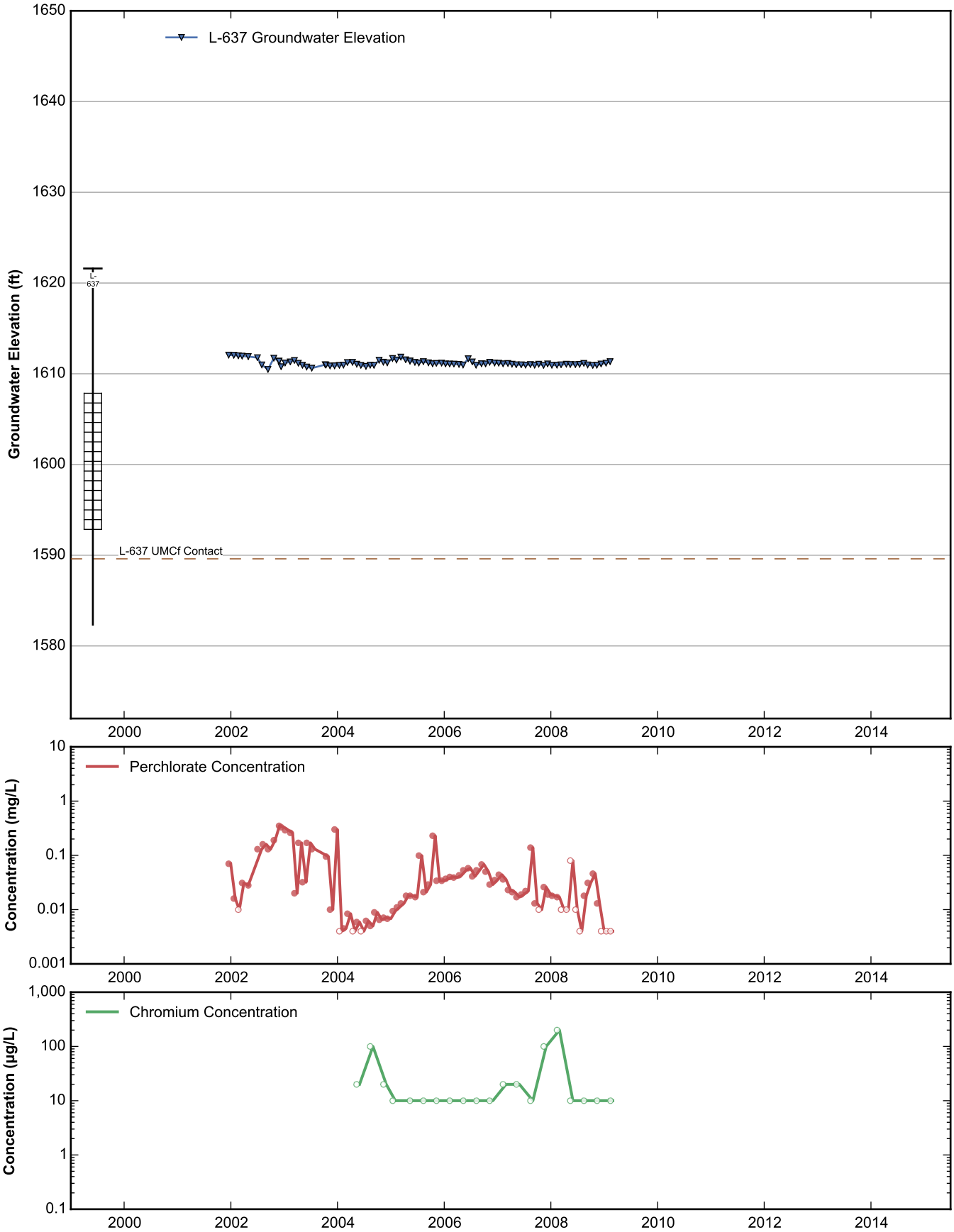


RAMBOLL ENVIRON

Data Sheet for Well L-635
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well L-637
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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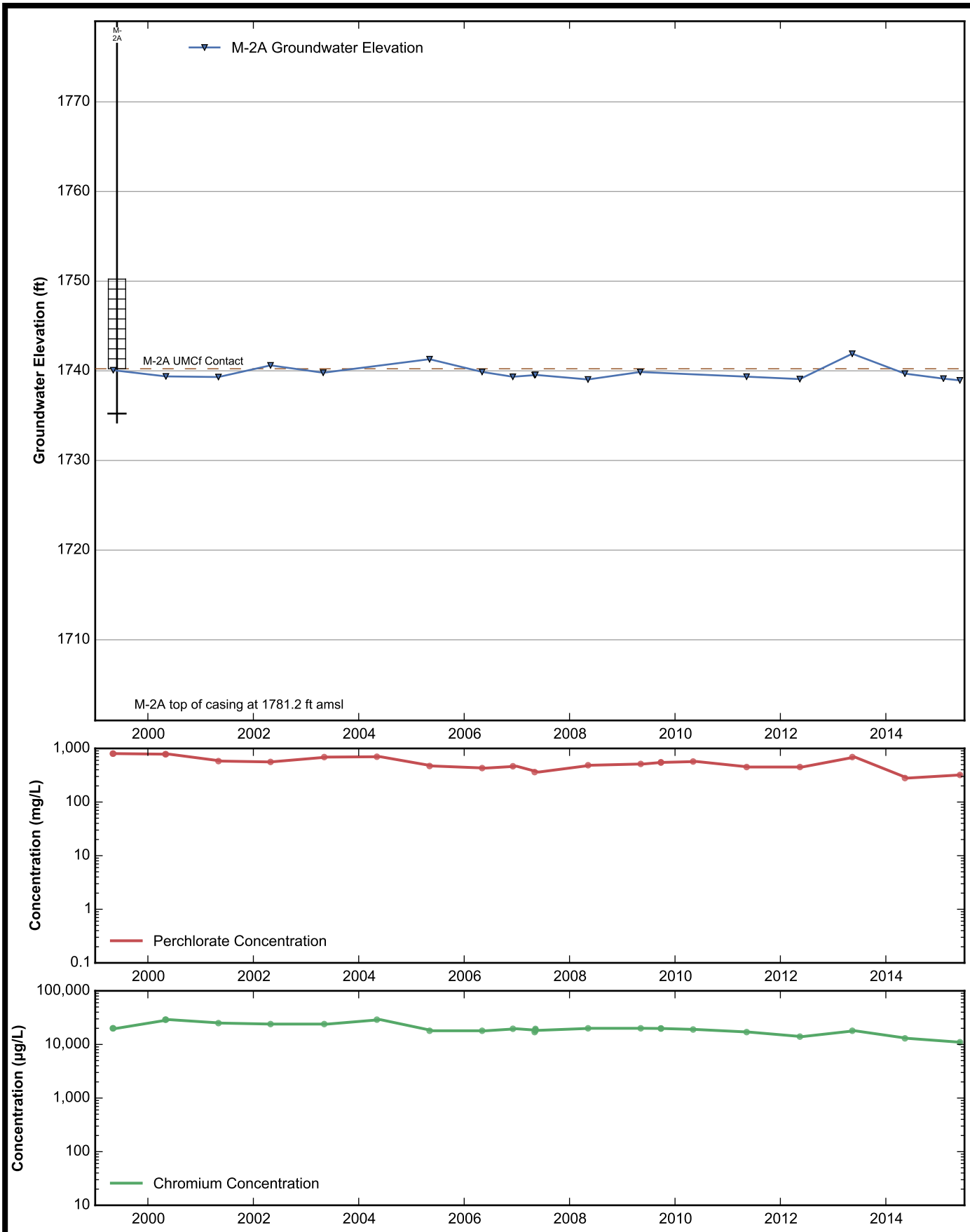
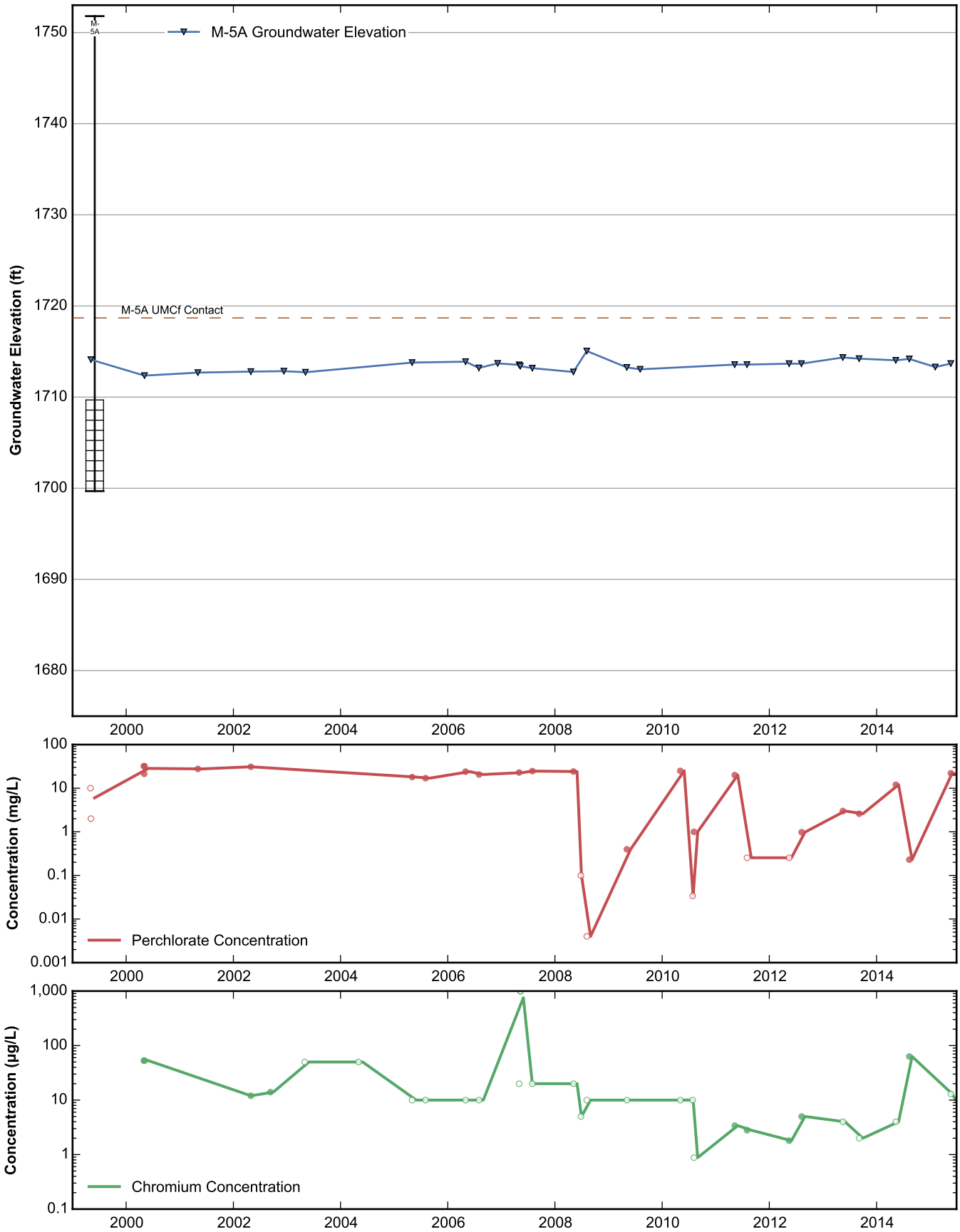


RAMBOLL ENVIRON

Data Sheet for Well M-2A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

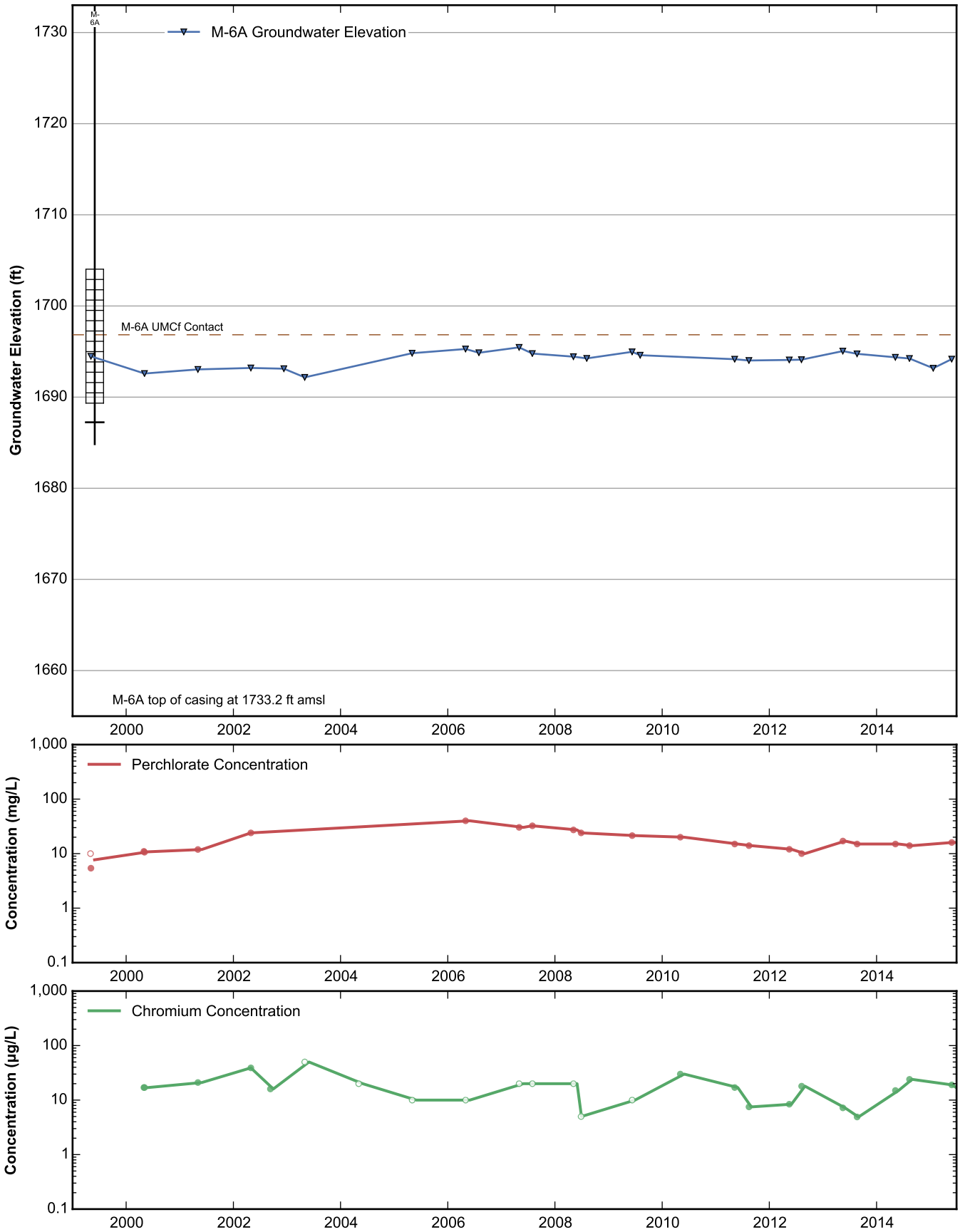


RAMBOLL ENVIRON

Data Sheet for Well M-5A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

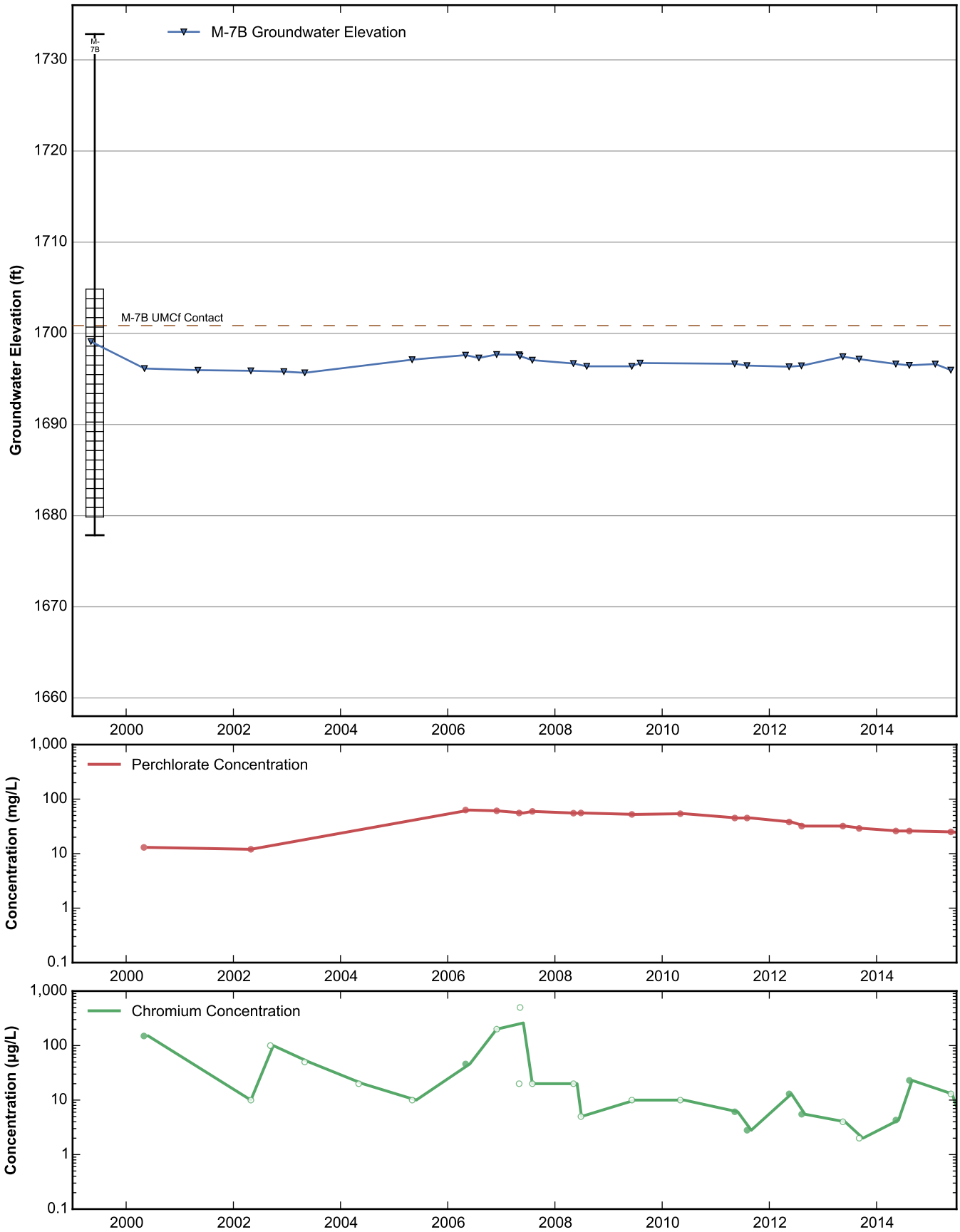


RAMBOLL ENVIRON

Data Sheet for Well M-6A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well M-7B
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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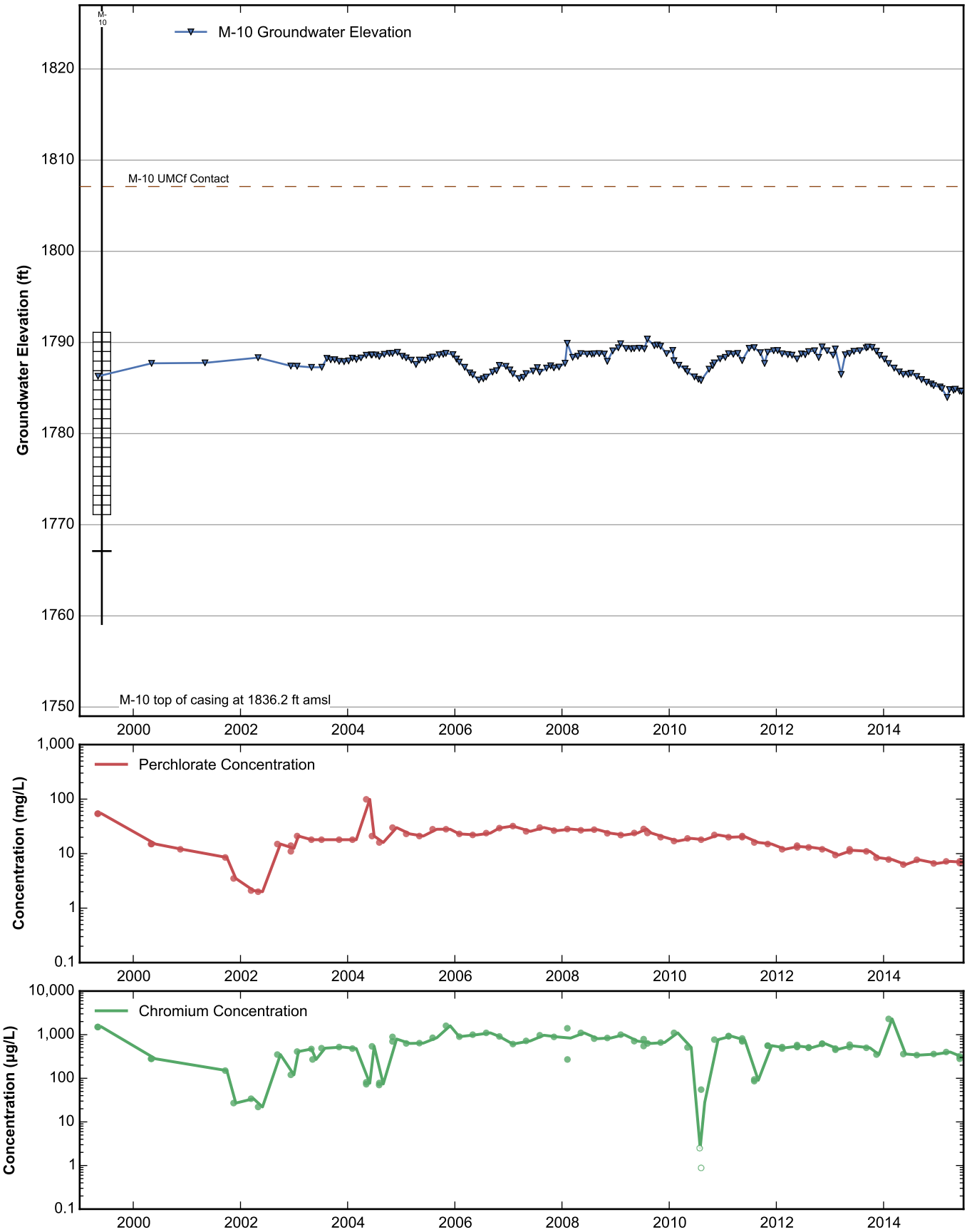

RAMBOLL ENVIRON

Data Sheet for Well M-10
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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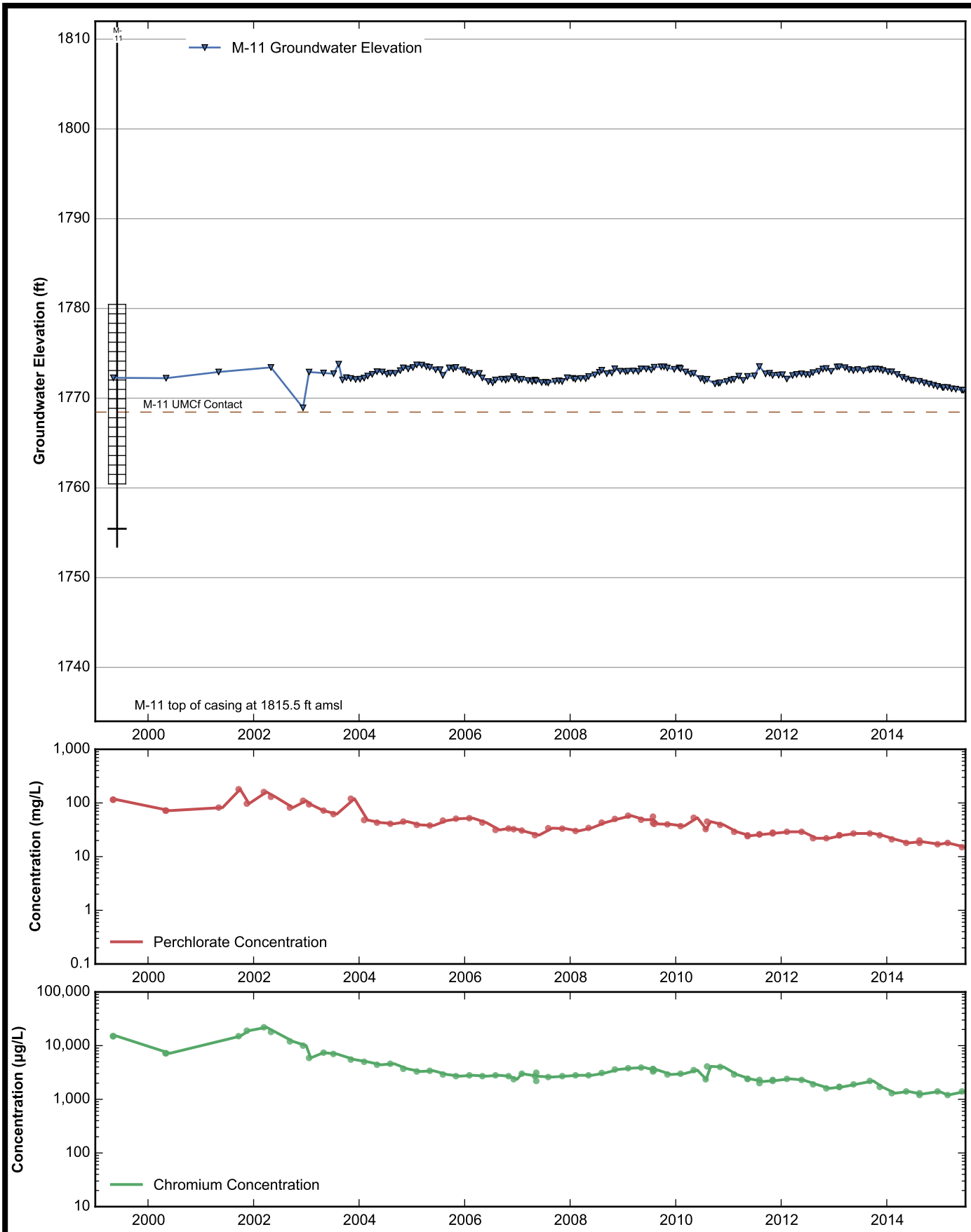
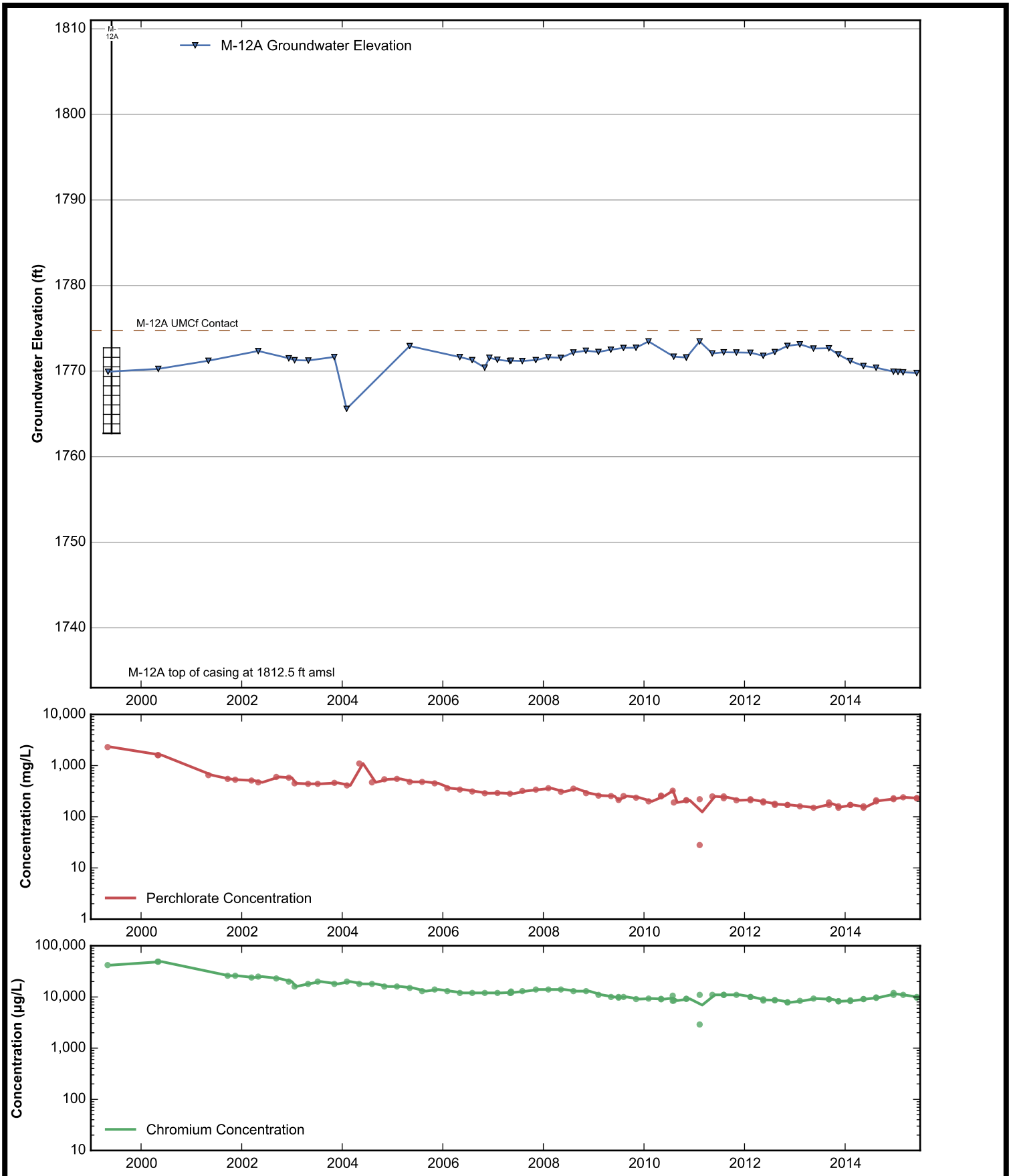


RAMBOLL ENVIRON

Data Sheet for Well M-11
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well M-12A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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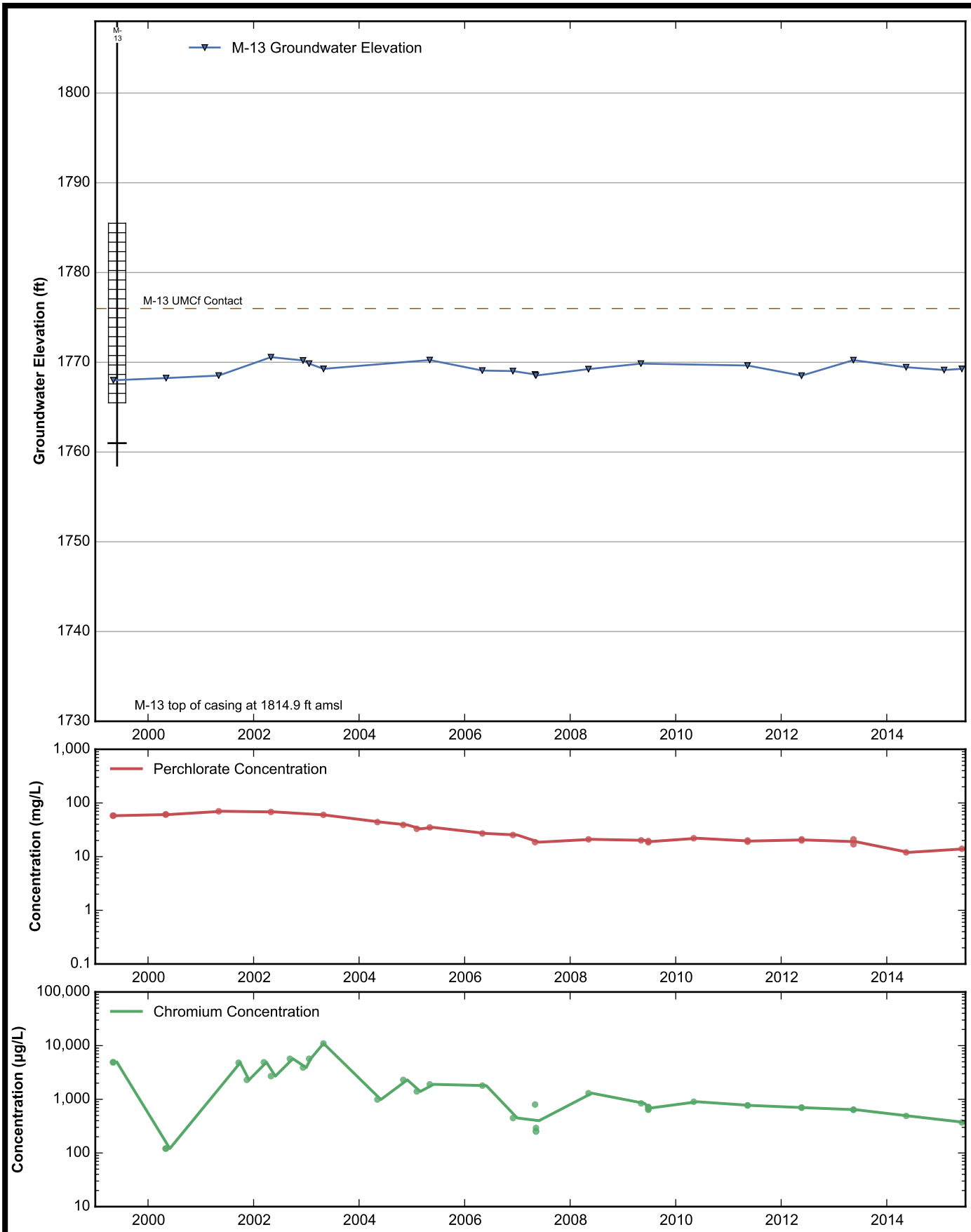

RAMBOLL ENVIRON

Data Sheet for Well M-13
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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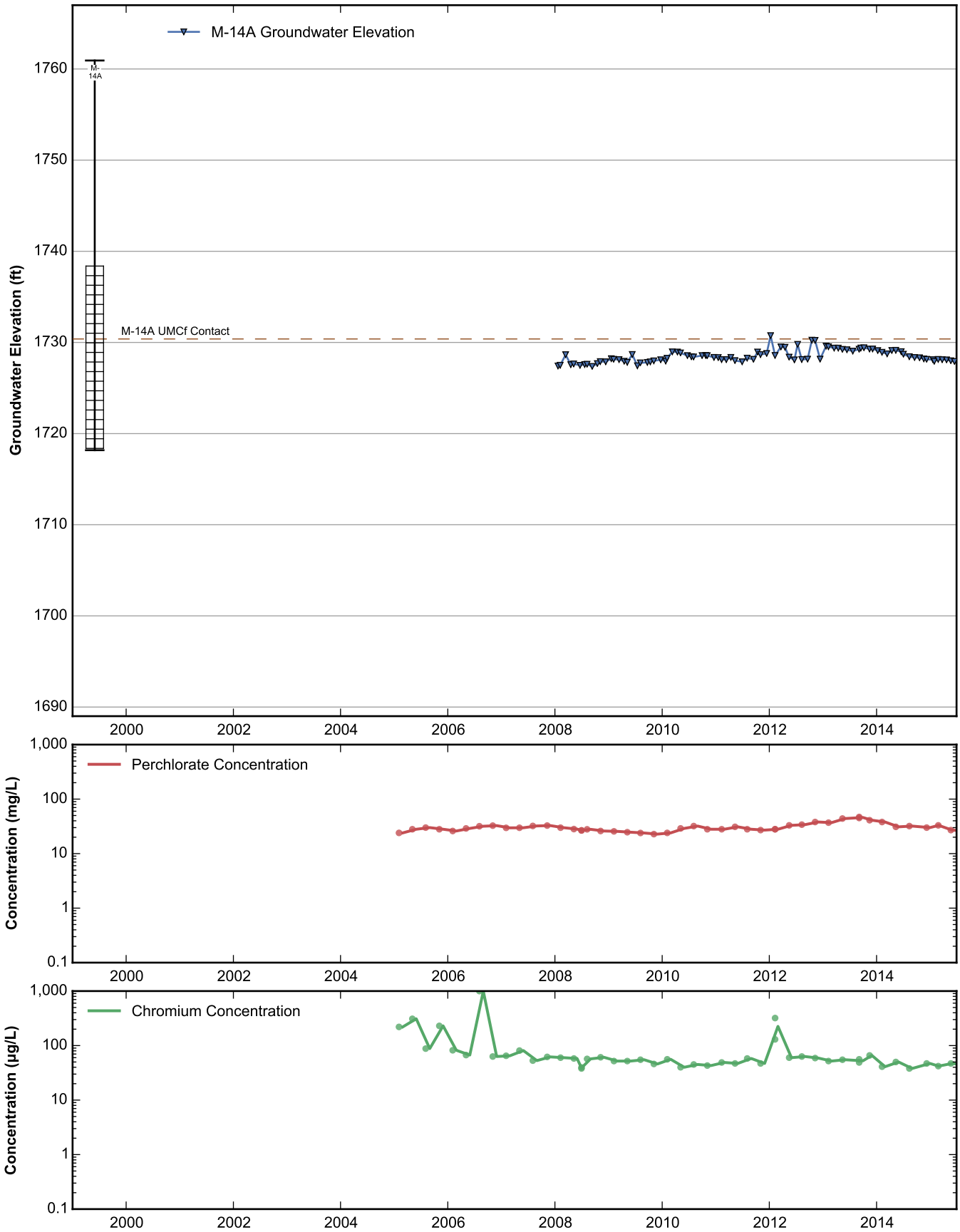

RAMBOLL ENVIRON

Data Sheet for Well M-14A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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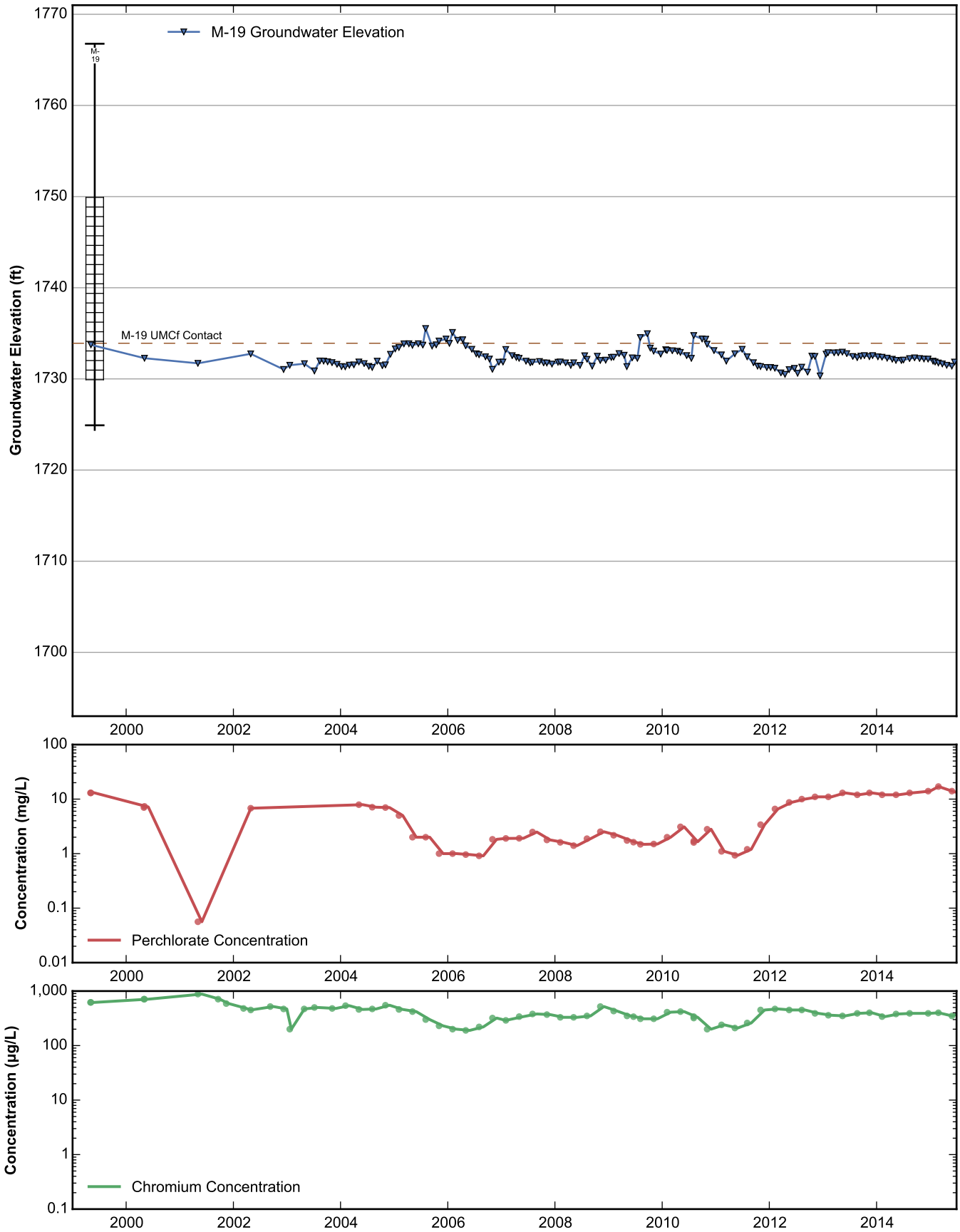

RAMBOLL ENVIRON

Data Sheet for Well M-19
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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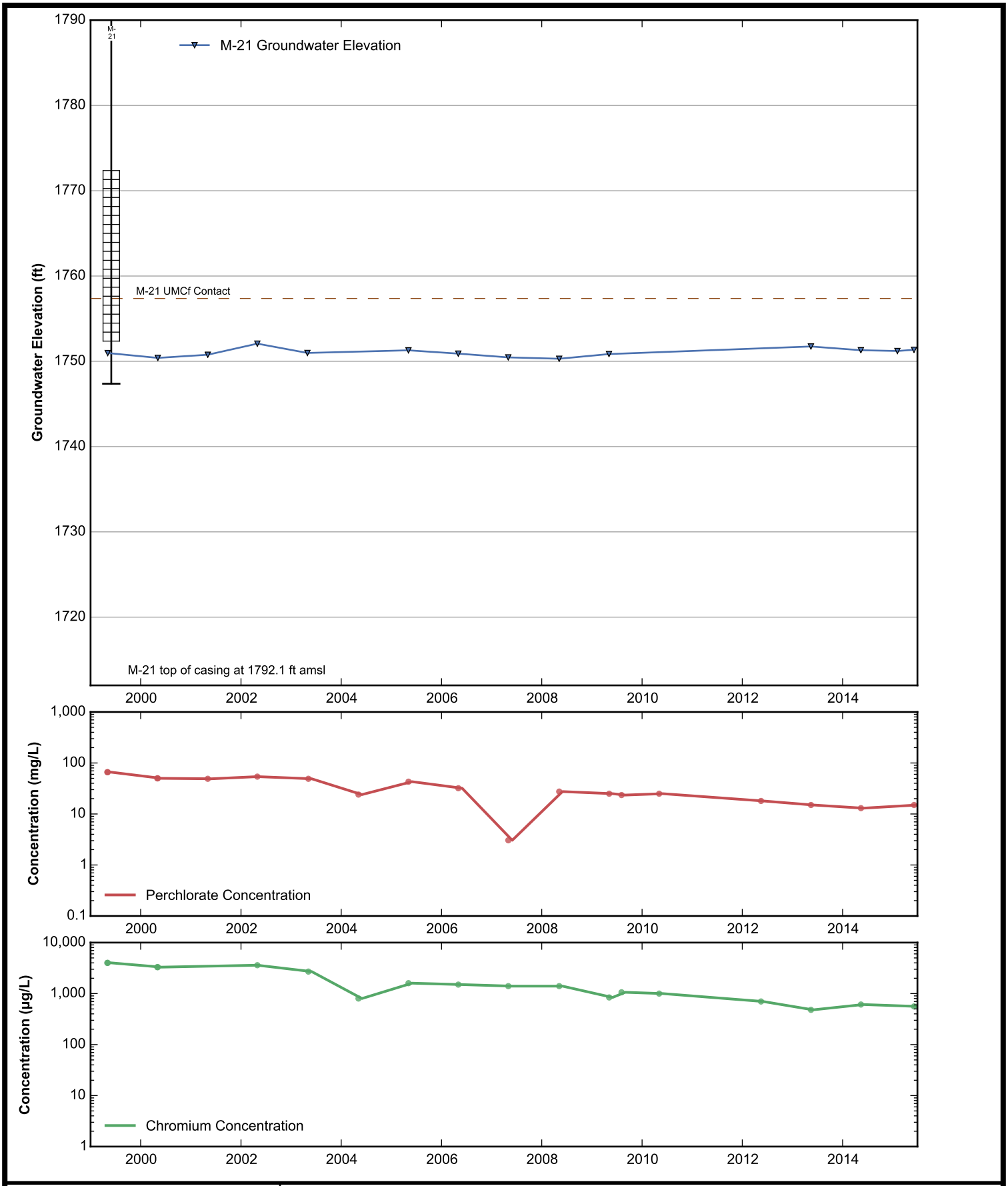
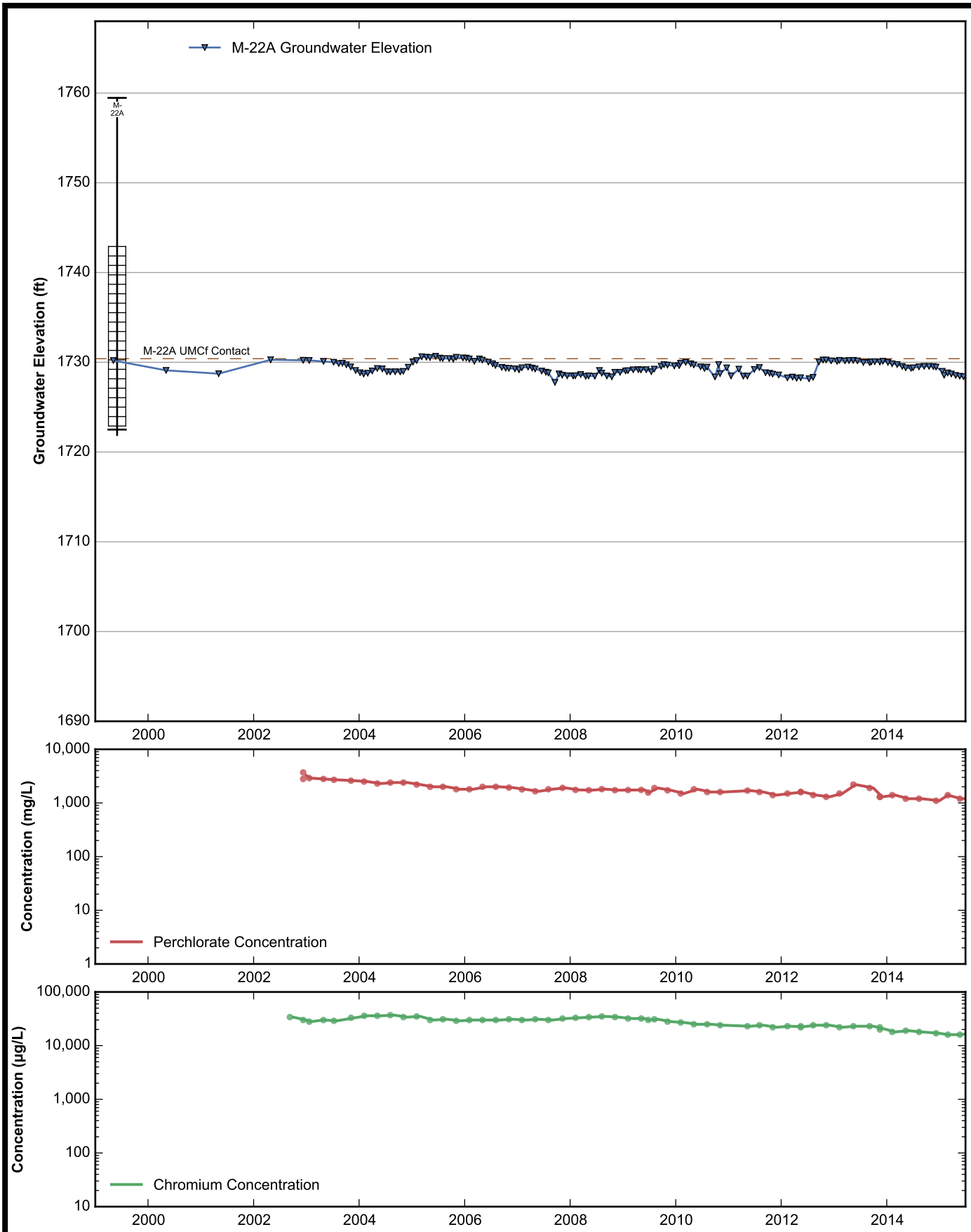


RAMBOLL ENVIRON

Data Sheet for Well M-21
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

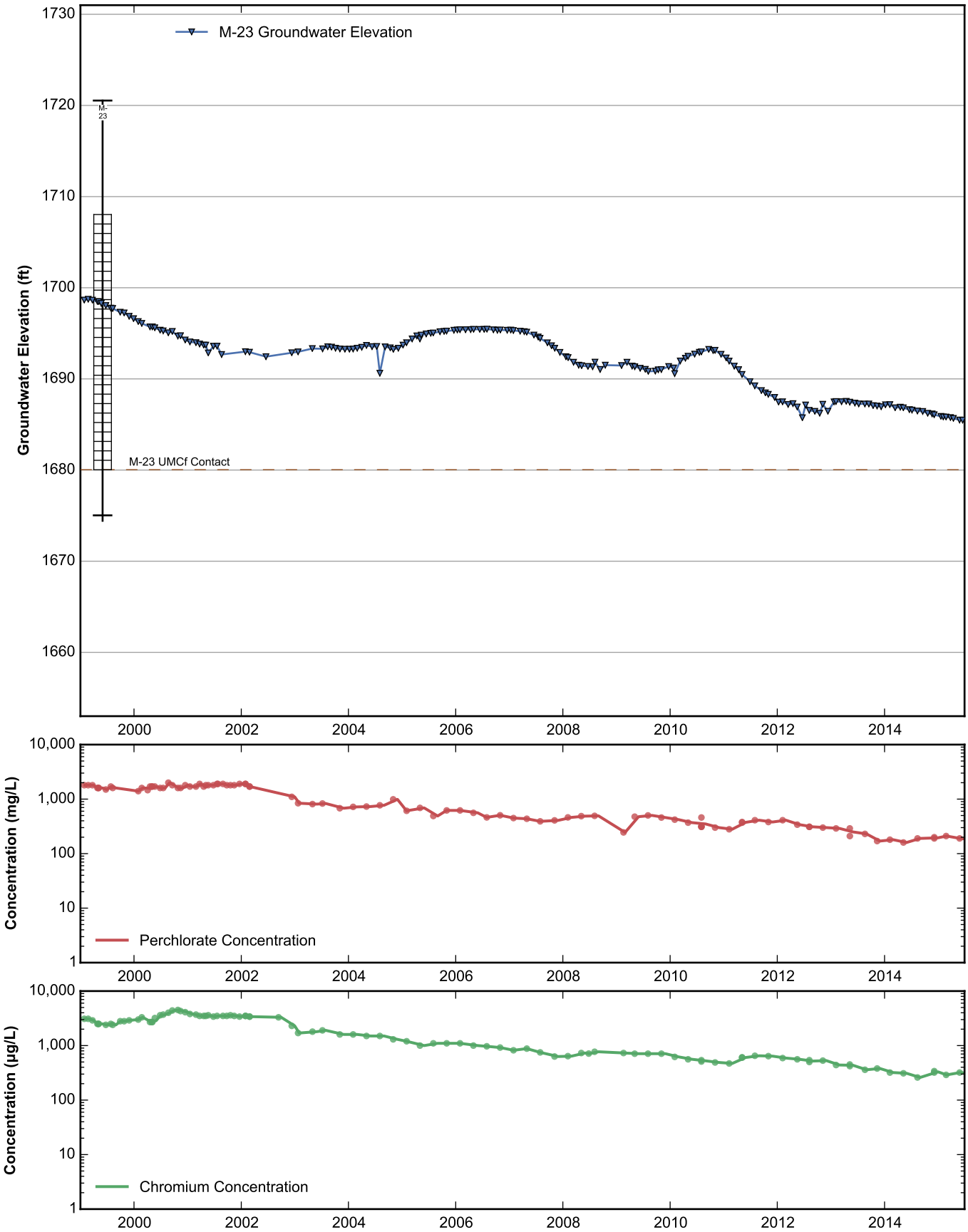


RAMBOLL ENVIRON

Data Sheet for Well M-22A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

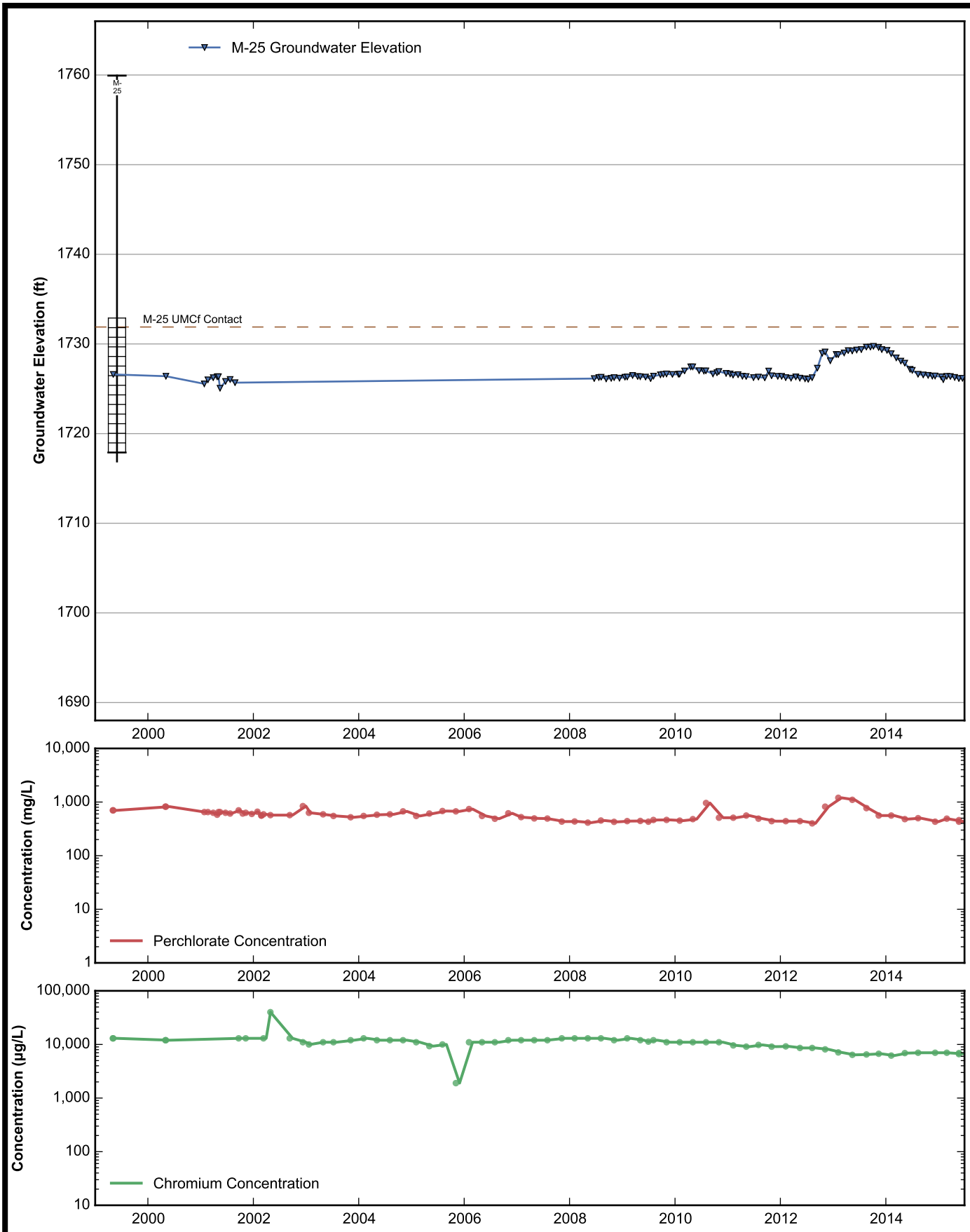


RAMBOLL ENVIRON

Data Sheet for Well M-23
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

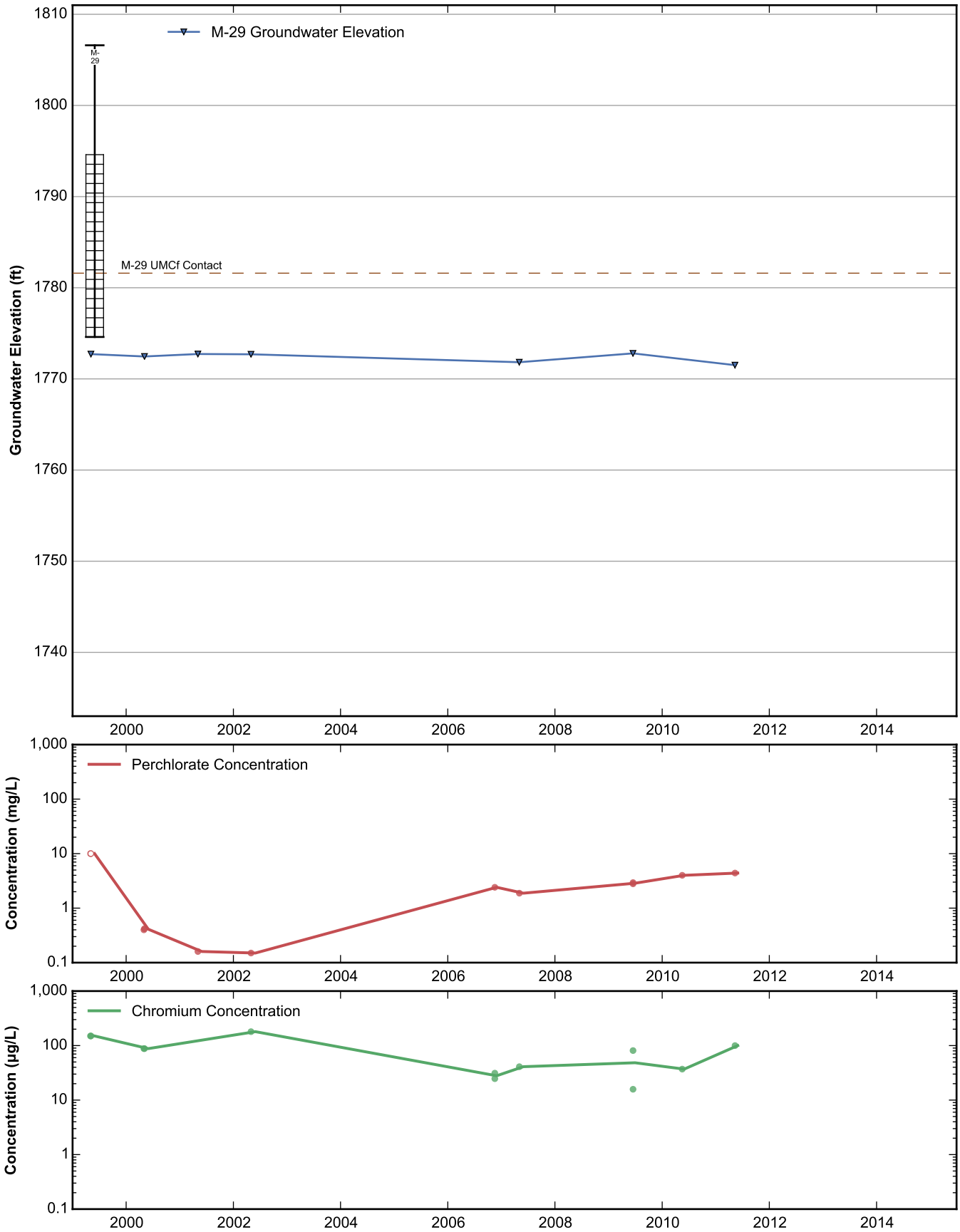


RAMBOLL ENVIRON

Data Sheet for Well M-25
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

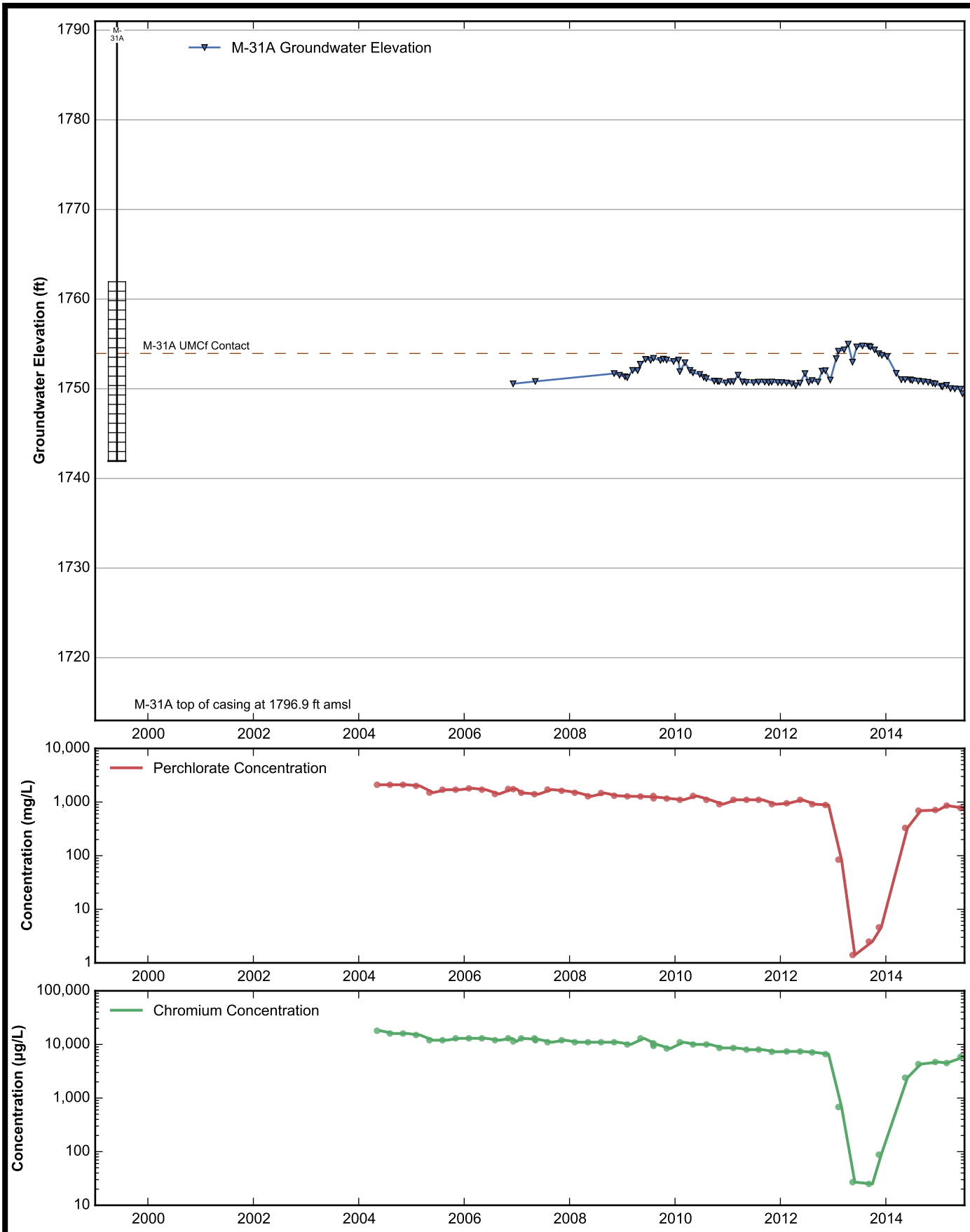


RAMBOLL ENVIRON

Data Sheet for Well M-29
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

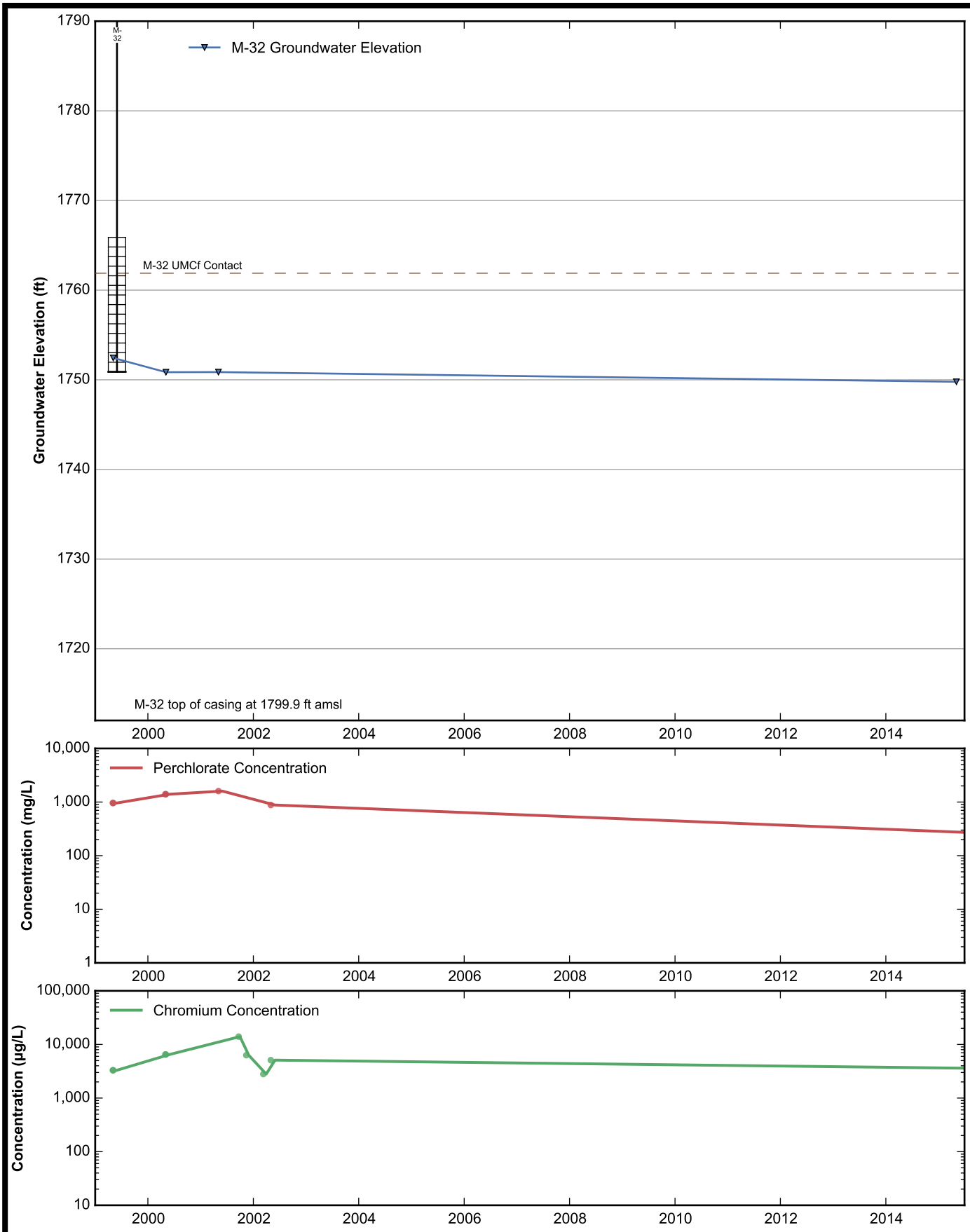


RAMBOLL ENVIRON

Data Sheet for Well M-31A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

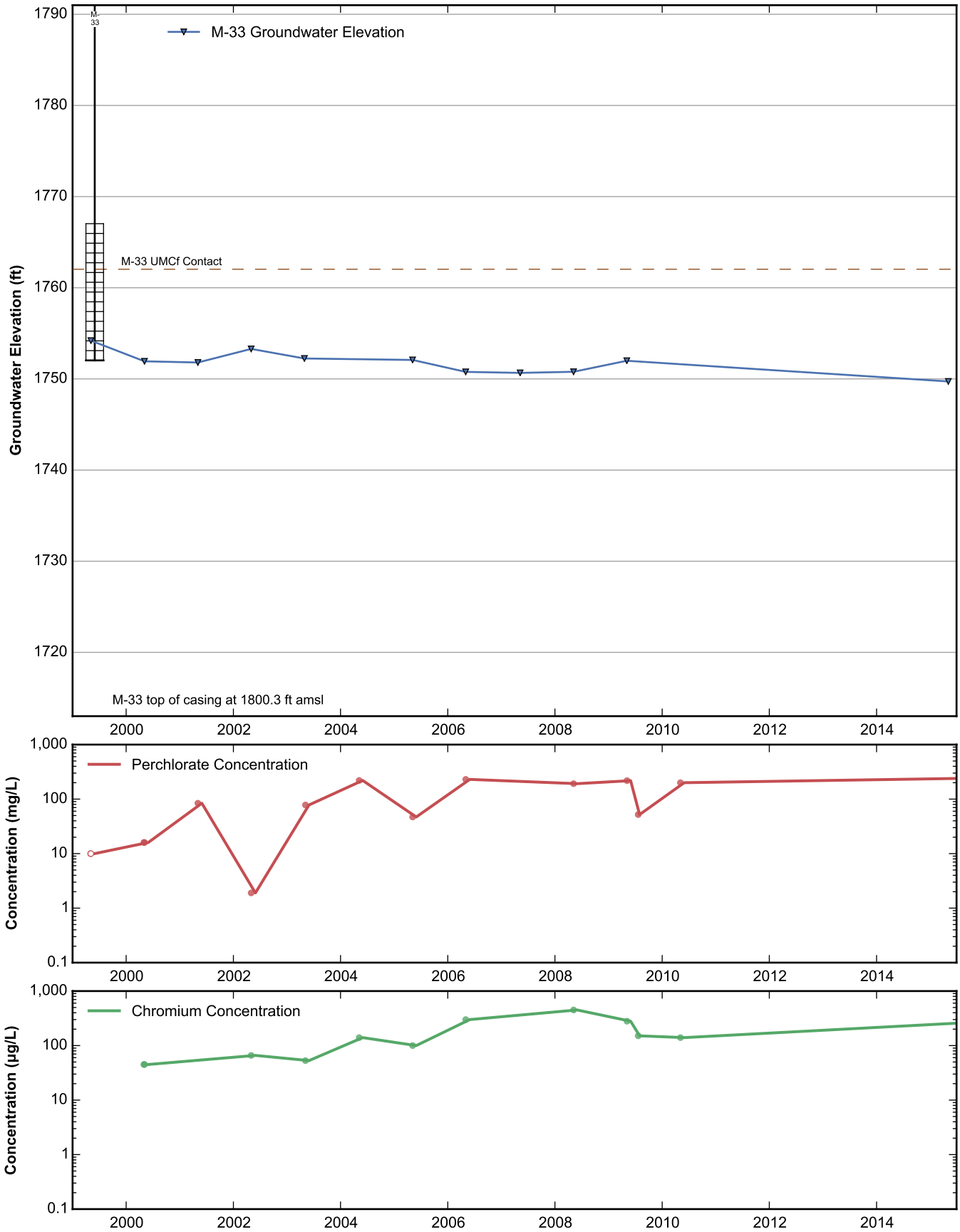


RAMBOLL ENVIRON

Data Sheet for Well M-32
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

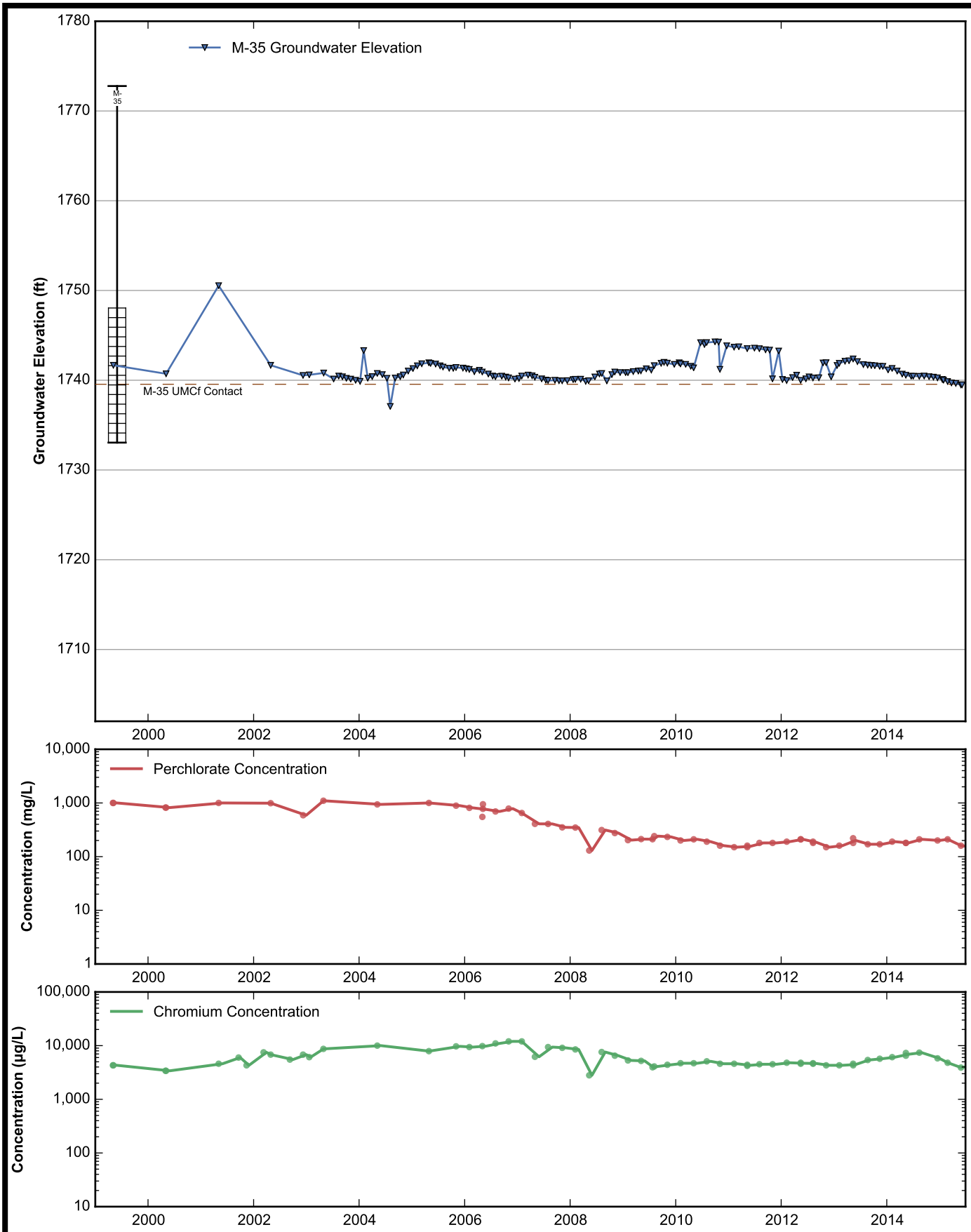


RAMBOLL ENVIRON

Data Sheet for Well M-33
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

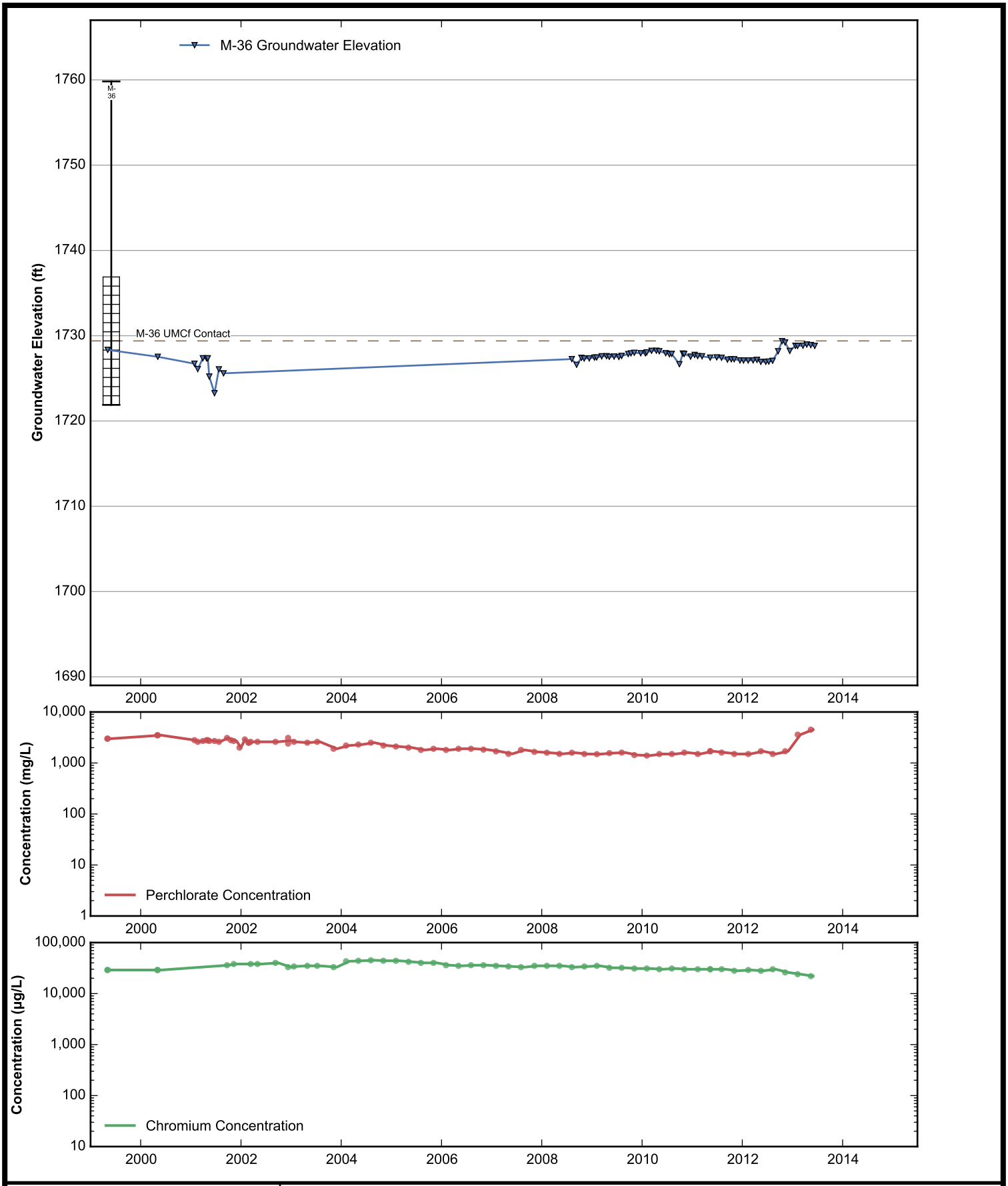


RAMBOLL ENVIRON

Data Sheet for Well M-35
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

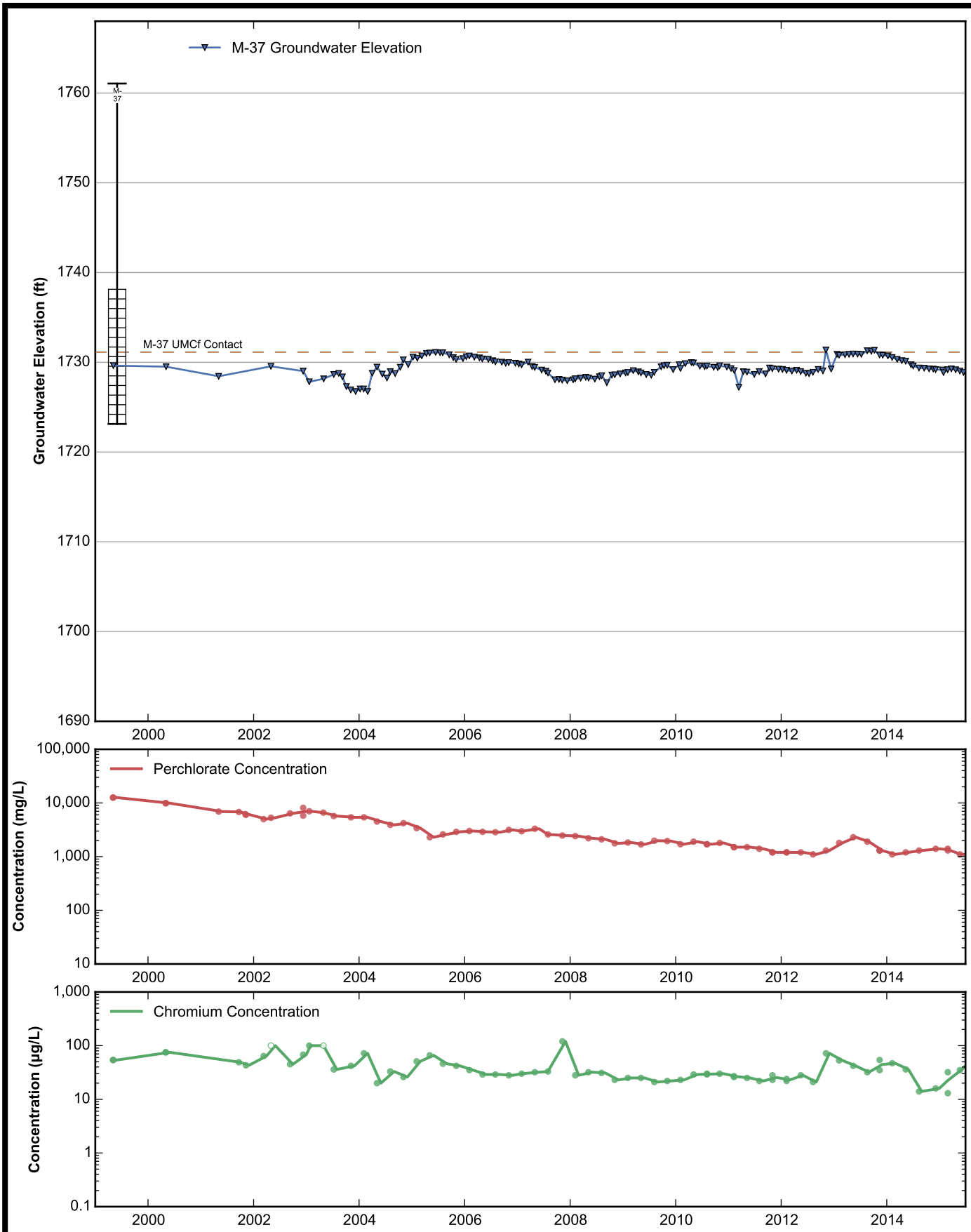


RAMBOLL ENVIRON

Data Sheet for Well M-36
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

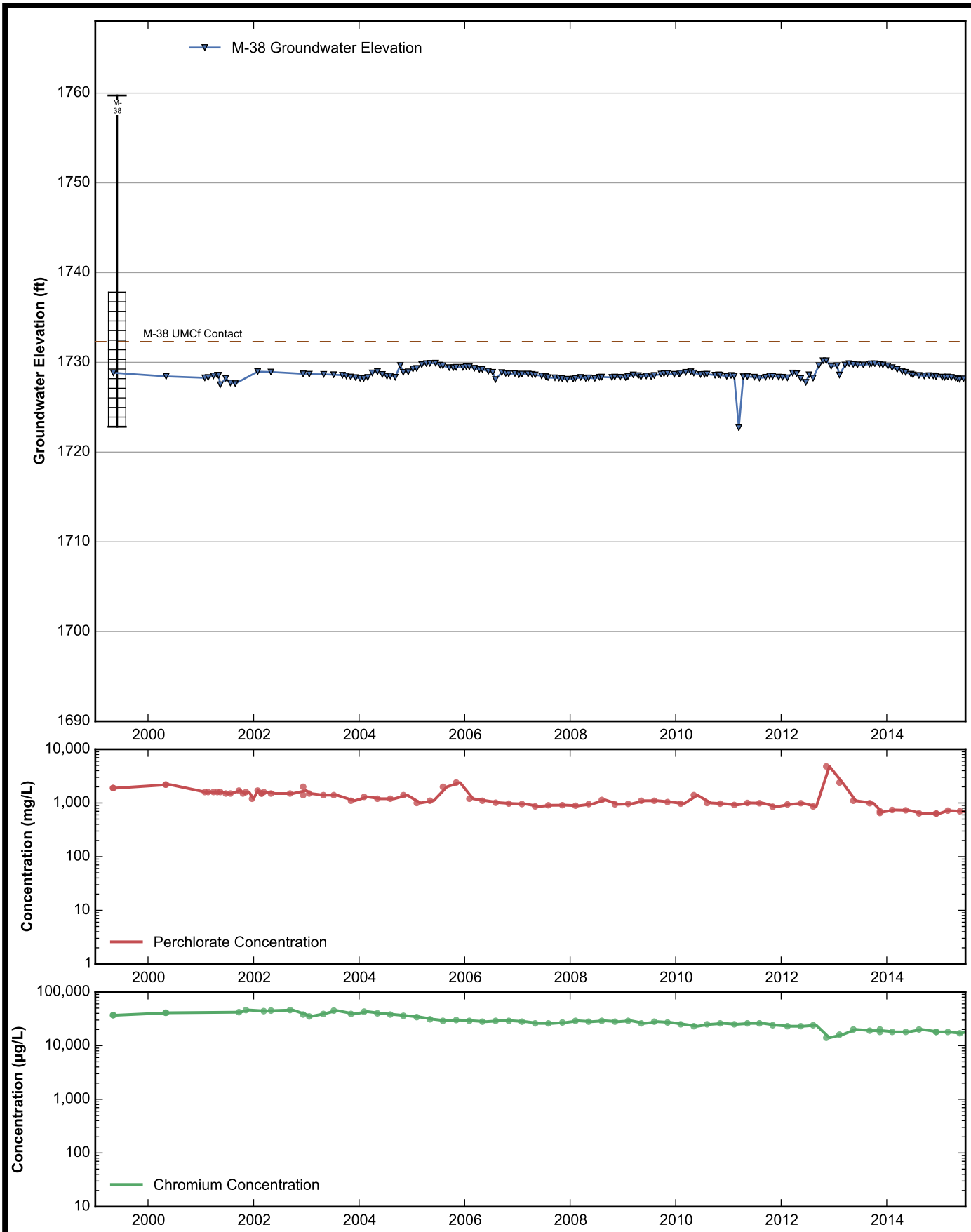


RAMBOLL ENVIRON

Data Sheet for Well M-37
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

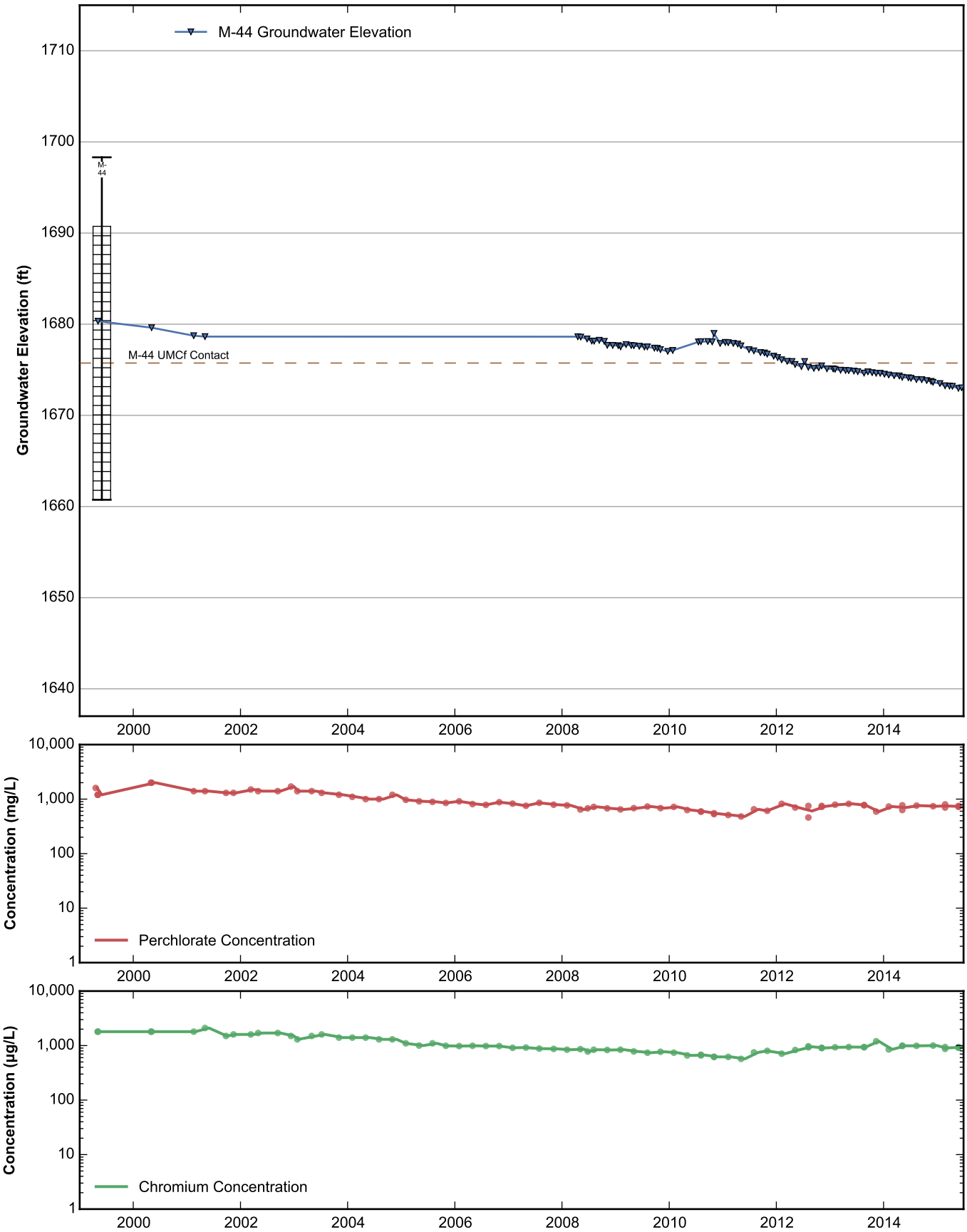


RAMBOLL ENVIRON

Data Sheet for Well M-38
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

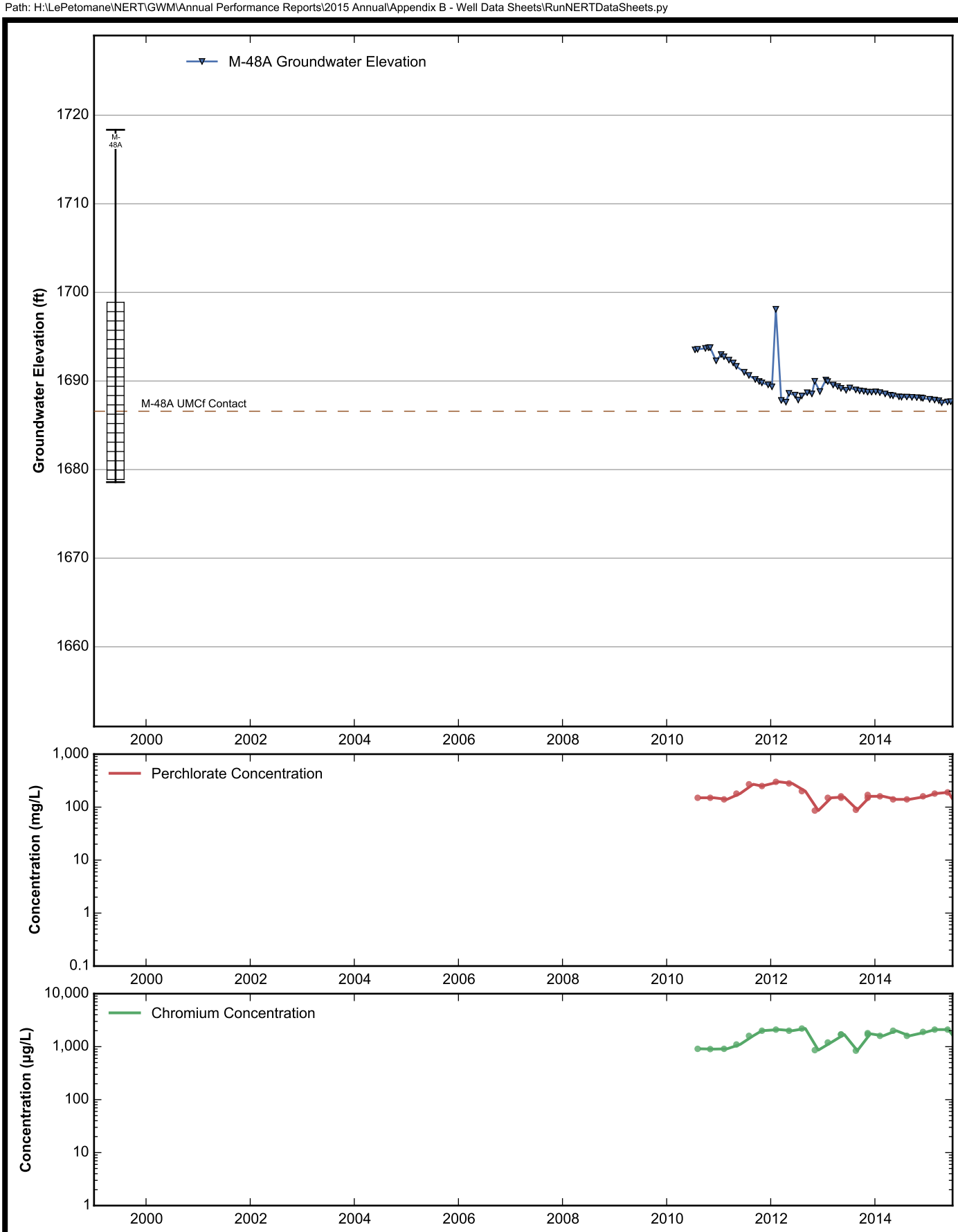


RAMBOLL ENVIRON

Data Sheet for Well M-44
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

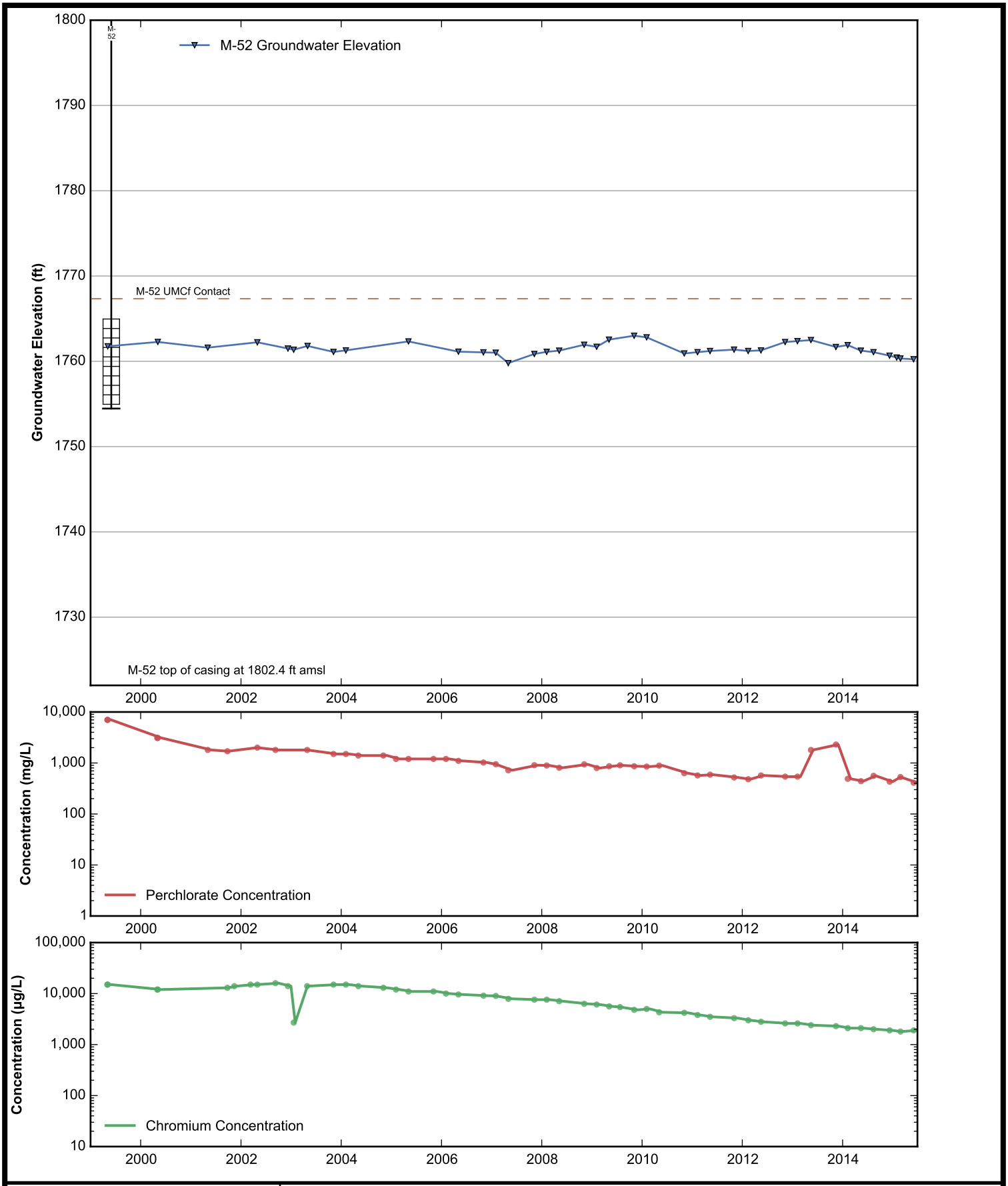


RAMBOLL ENVIRON

Data Sheet for Well M-48A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

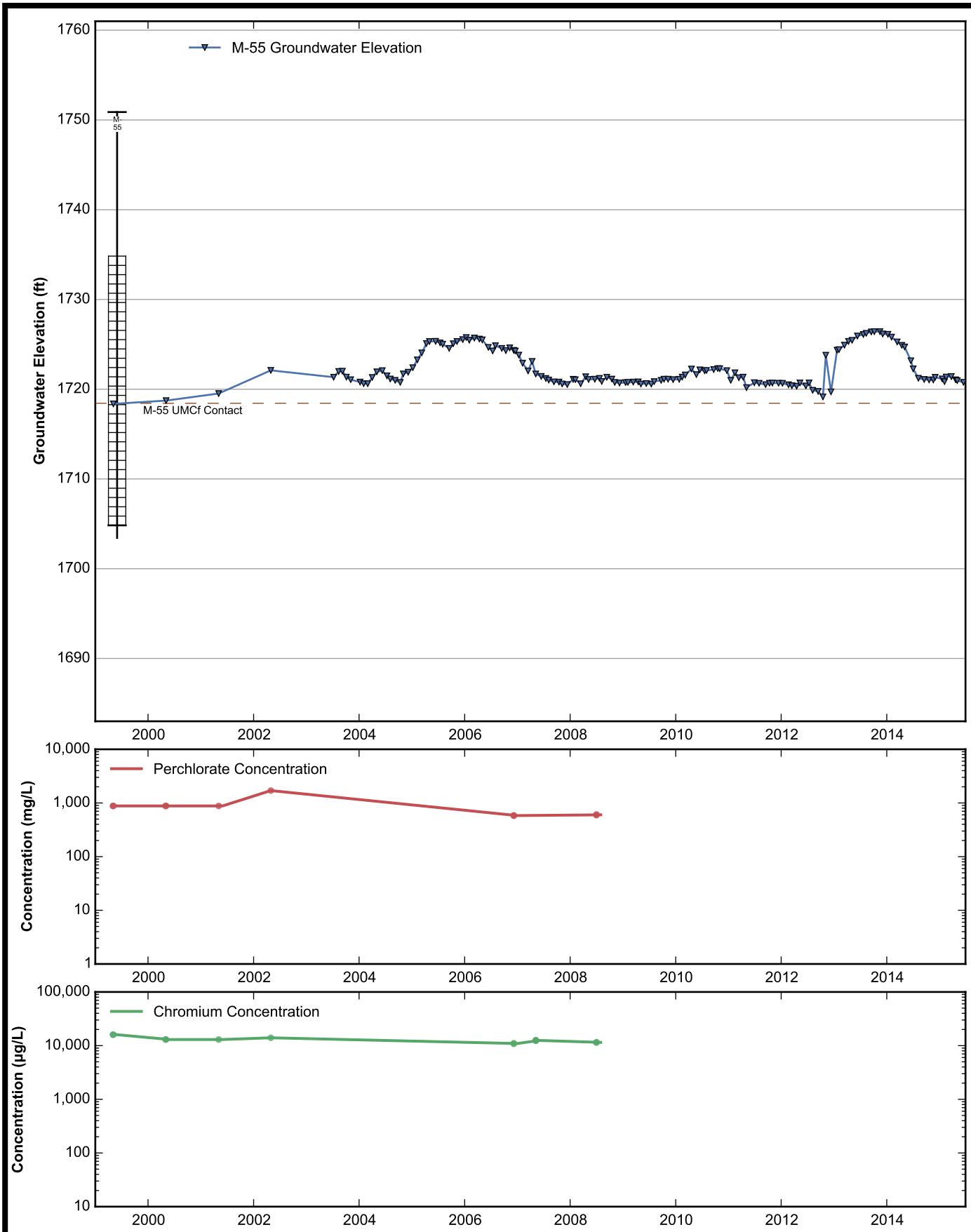


RAMBOLL ENVIRON

Data Sheet for Well M-52
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

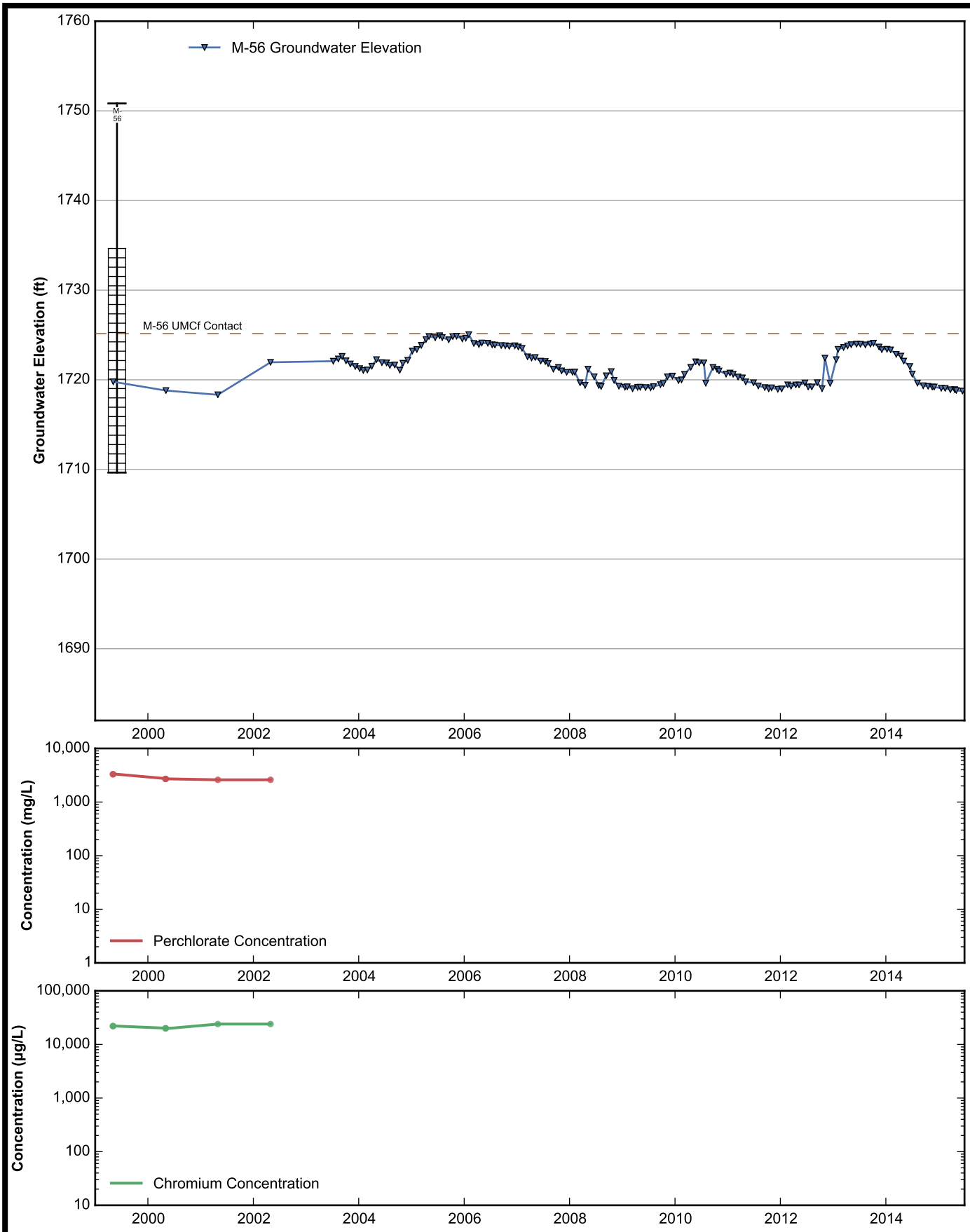


RAMBOLL ENVIRON

Data Sheet for Well M-55
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

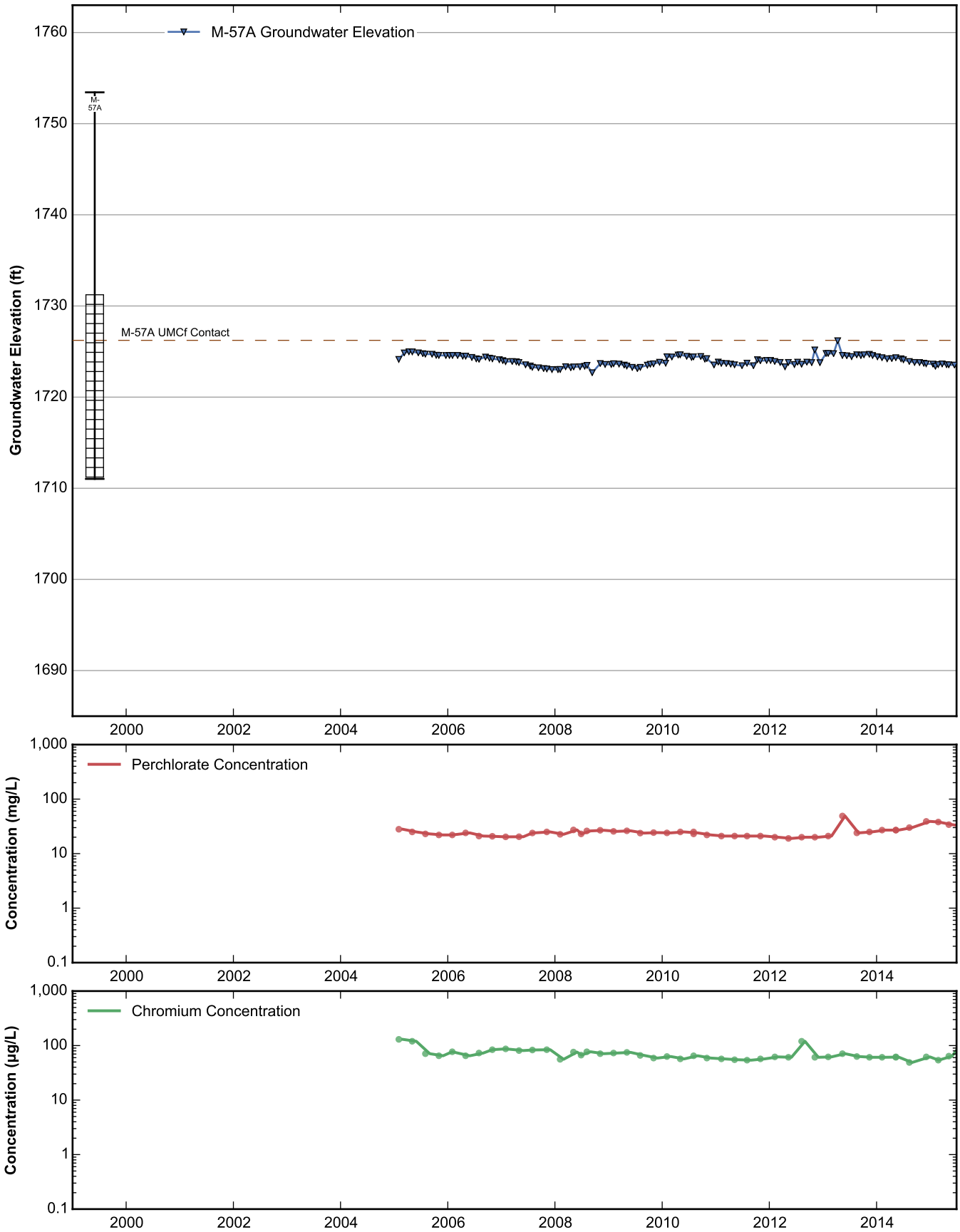


RAMBOLL ENVIRON

Data Sheet for Well M-56
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

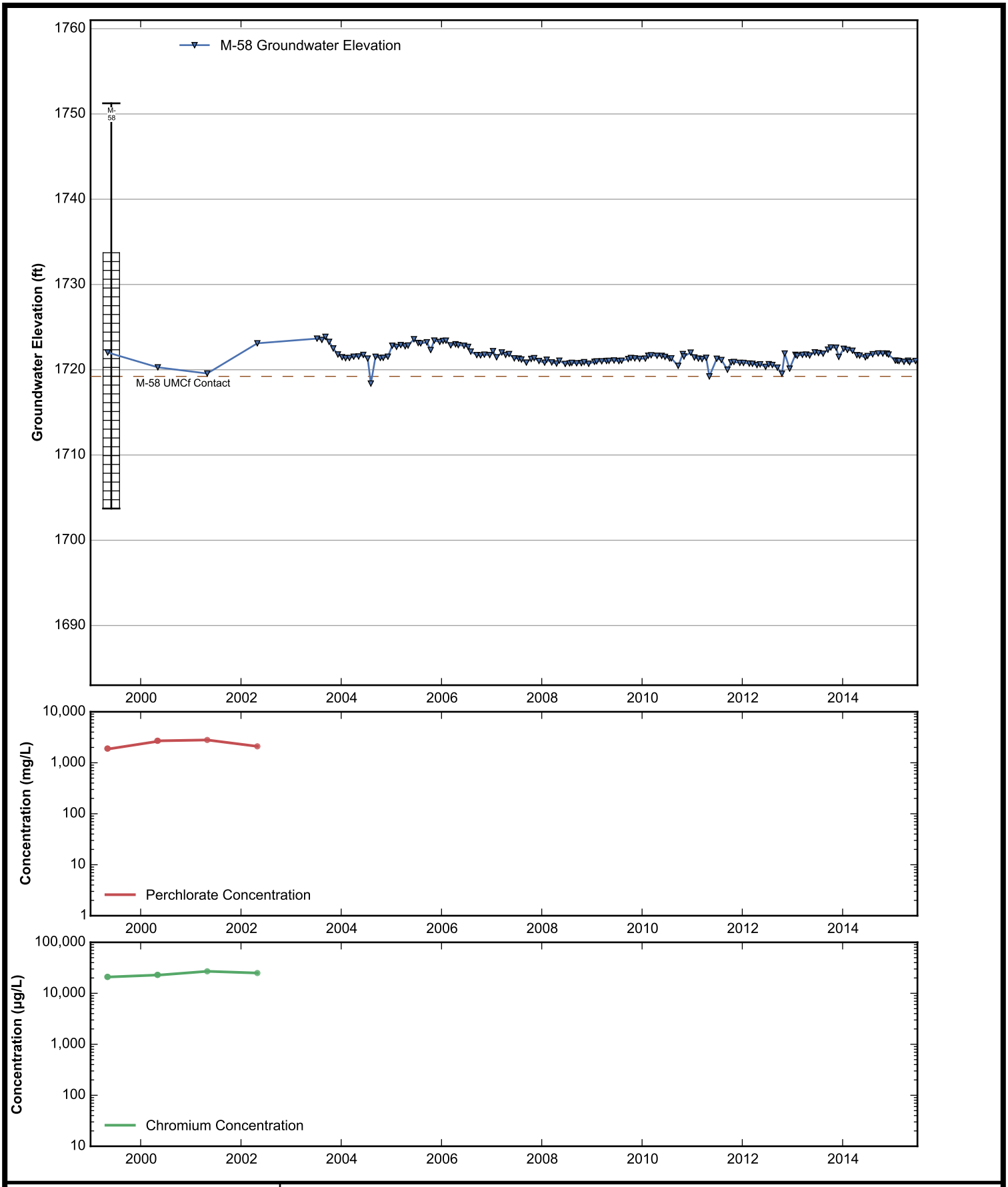


RAMBOLL ENVIRON

Data Sheet for Well M-57A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

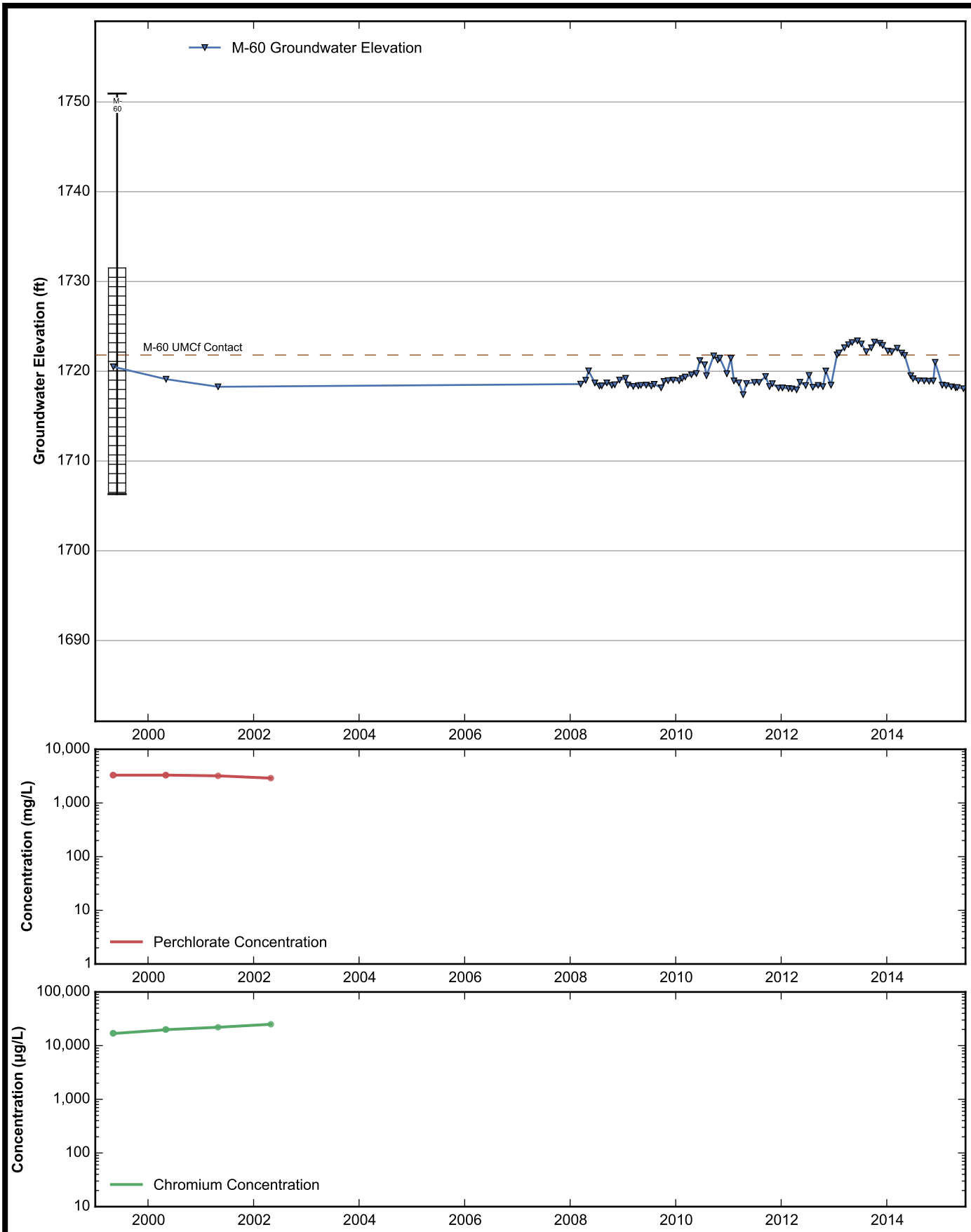


RAMBOLL ENVIRON

Data Sheet for Well M-58
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

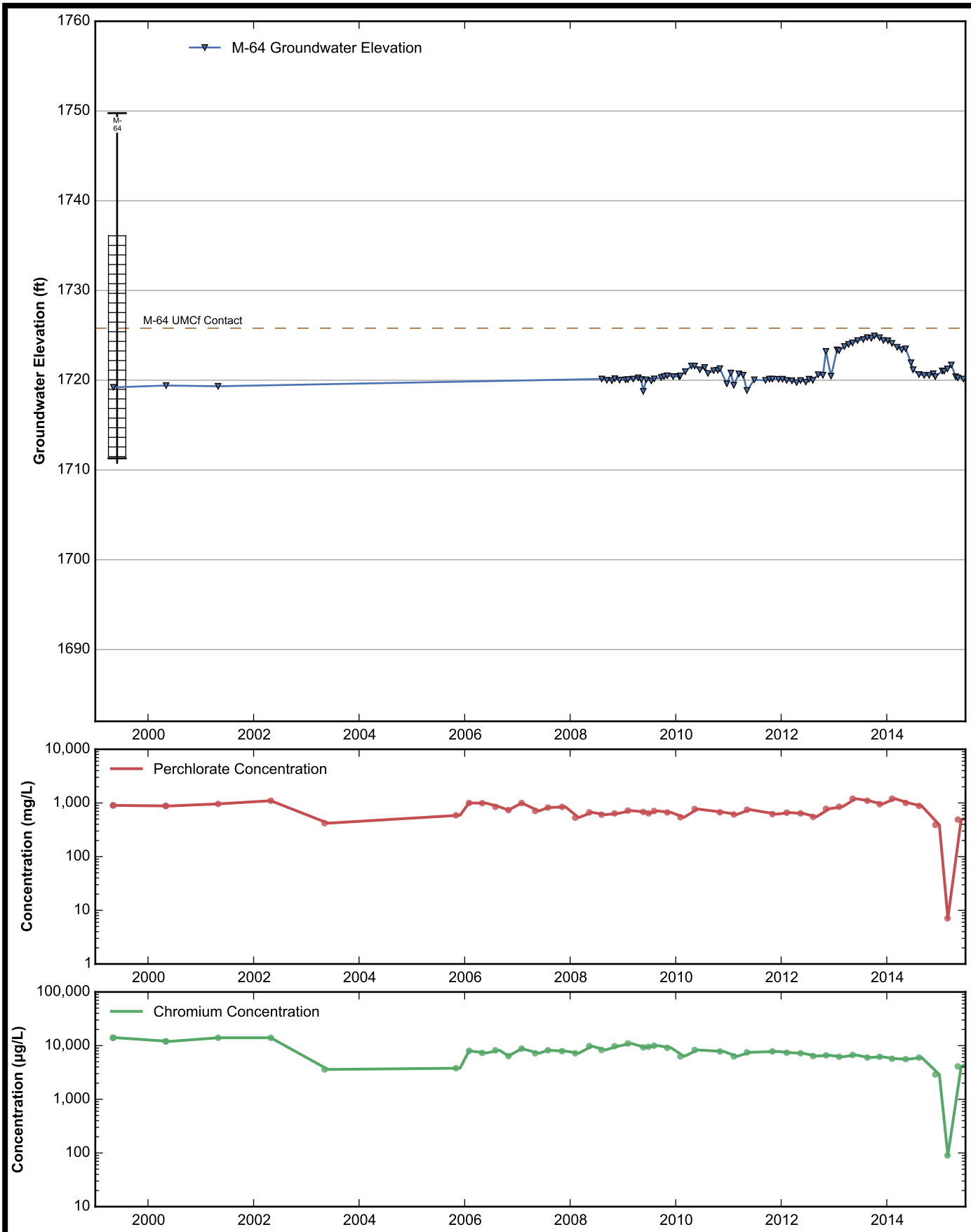
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well M-60
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

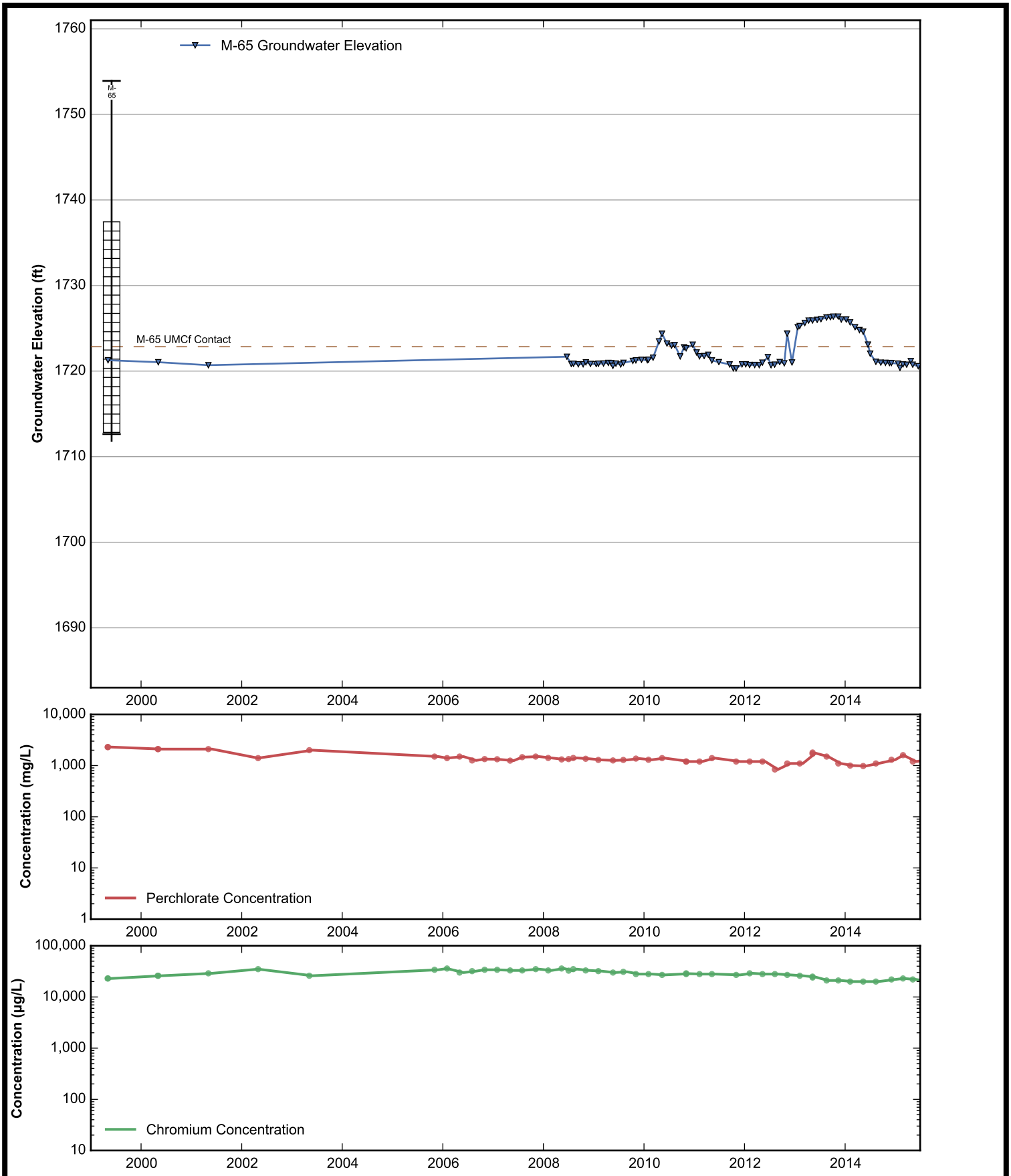


RAMBOLL ENVIRON

Data Sheet for Well M-64
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

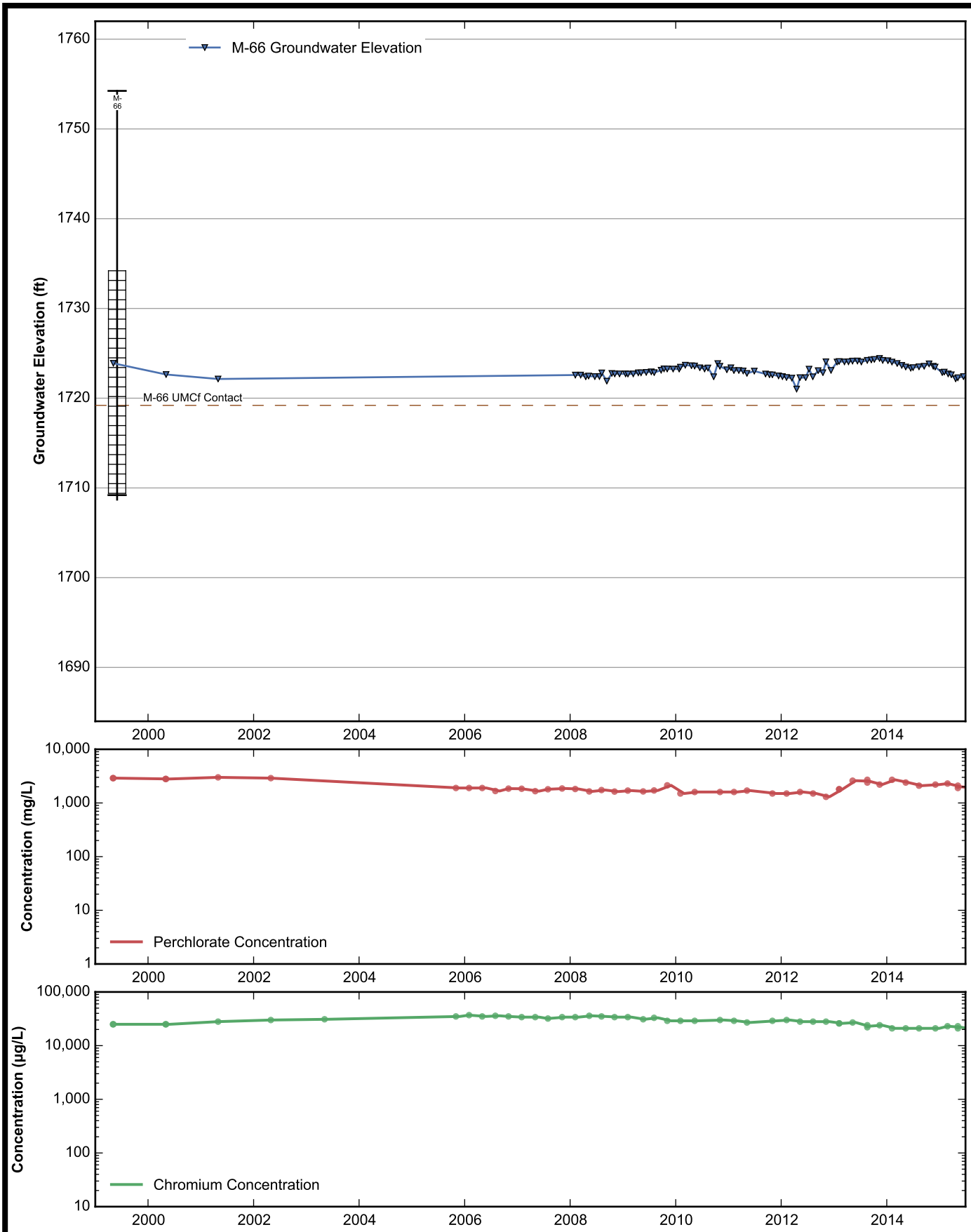


RAMBOLL ENVIRON

Data Sheet for Well M-65
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

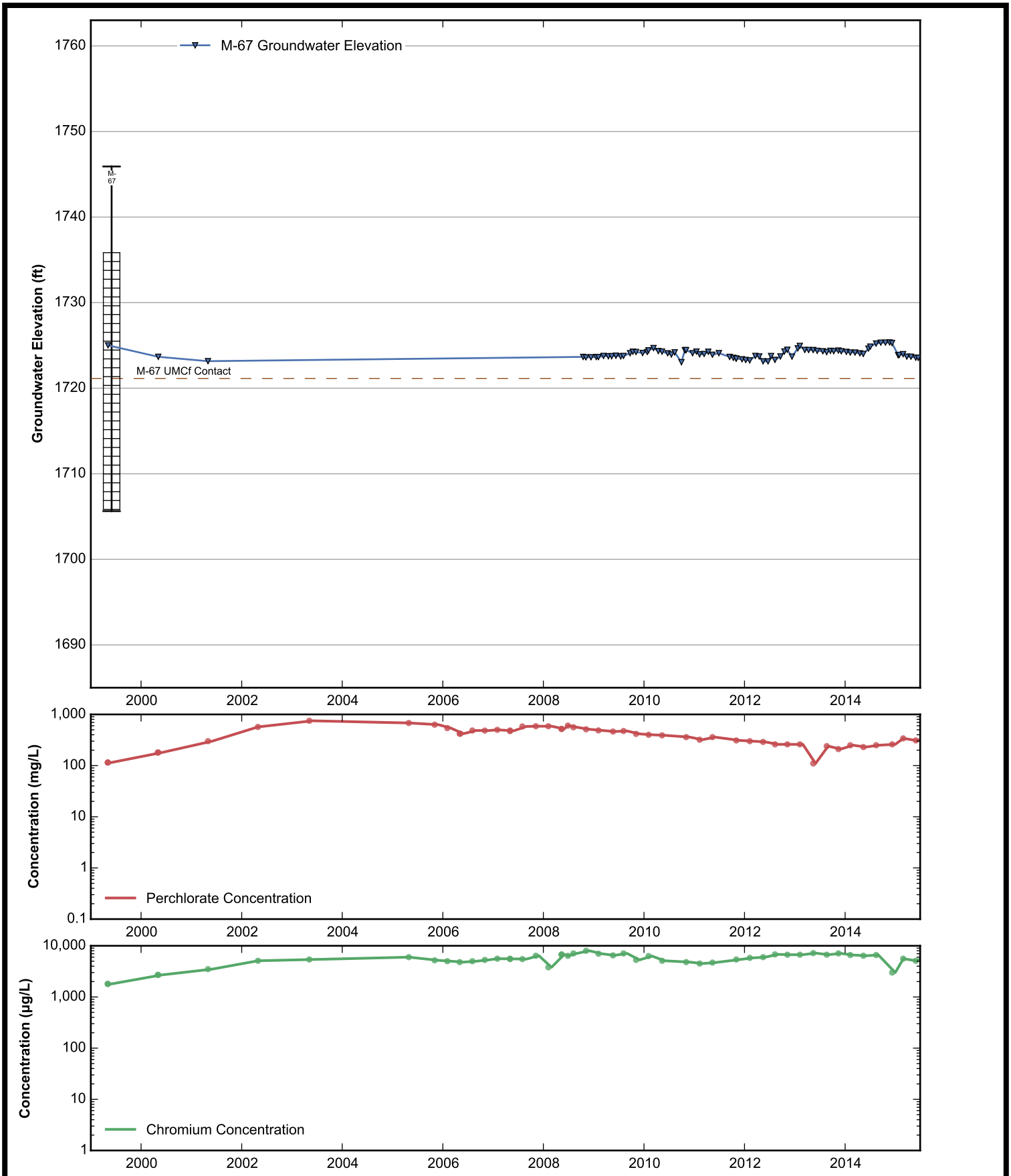


RAMBOLL ENVIRON

Data Sheet for Well M-66
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

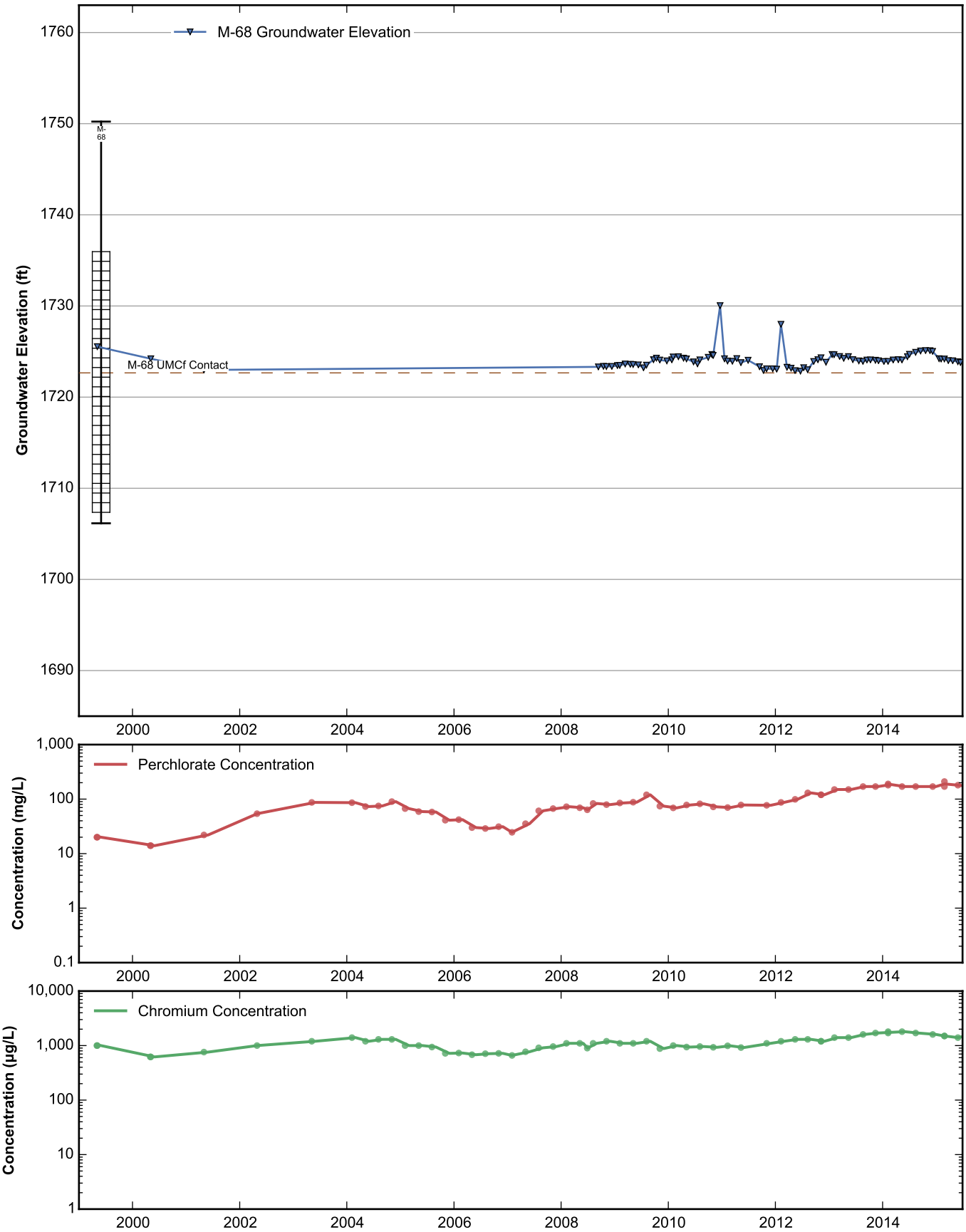
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well M-67
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

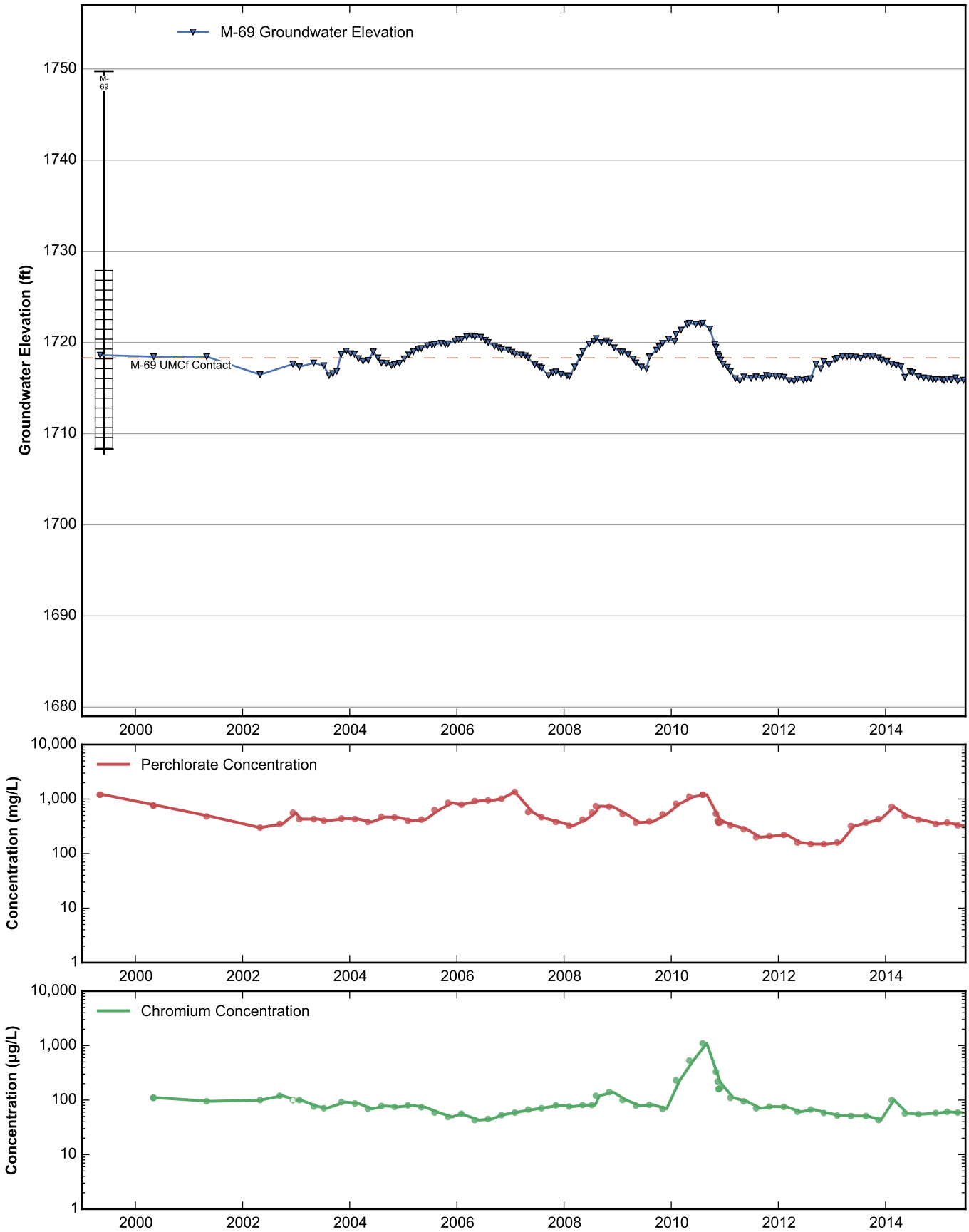


RAMBOLL ENVIRON

Data Sheet for Well M-68
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

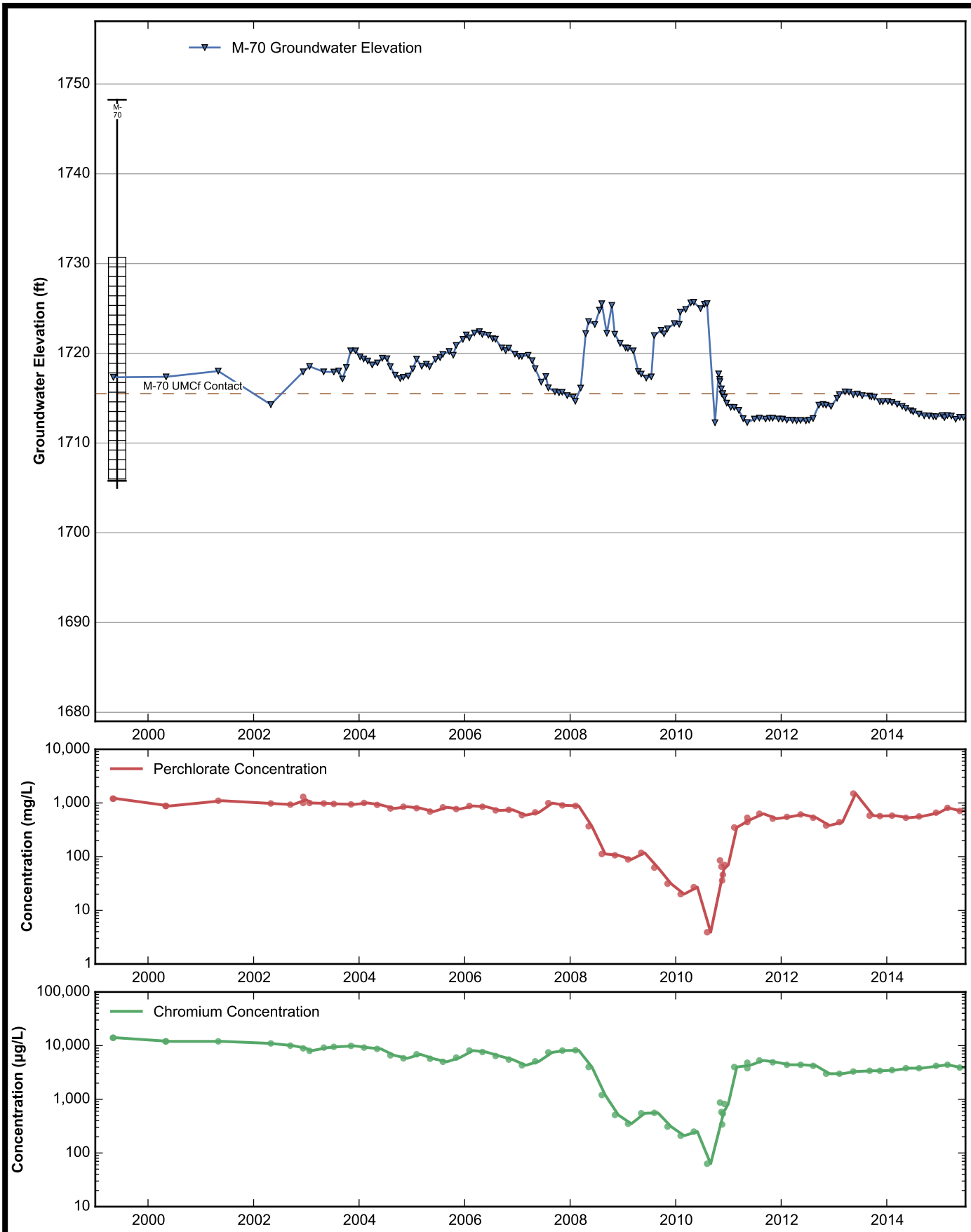


RAMBOLL ENVIRON

Data Sheet for Well M-69
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

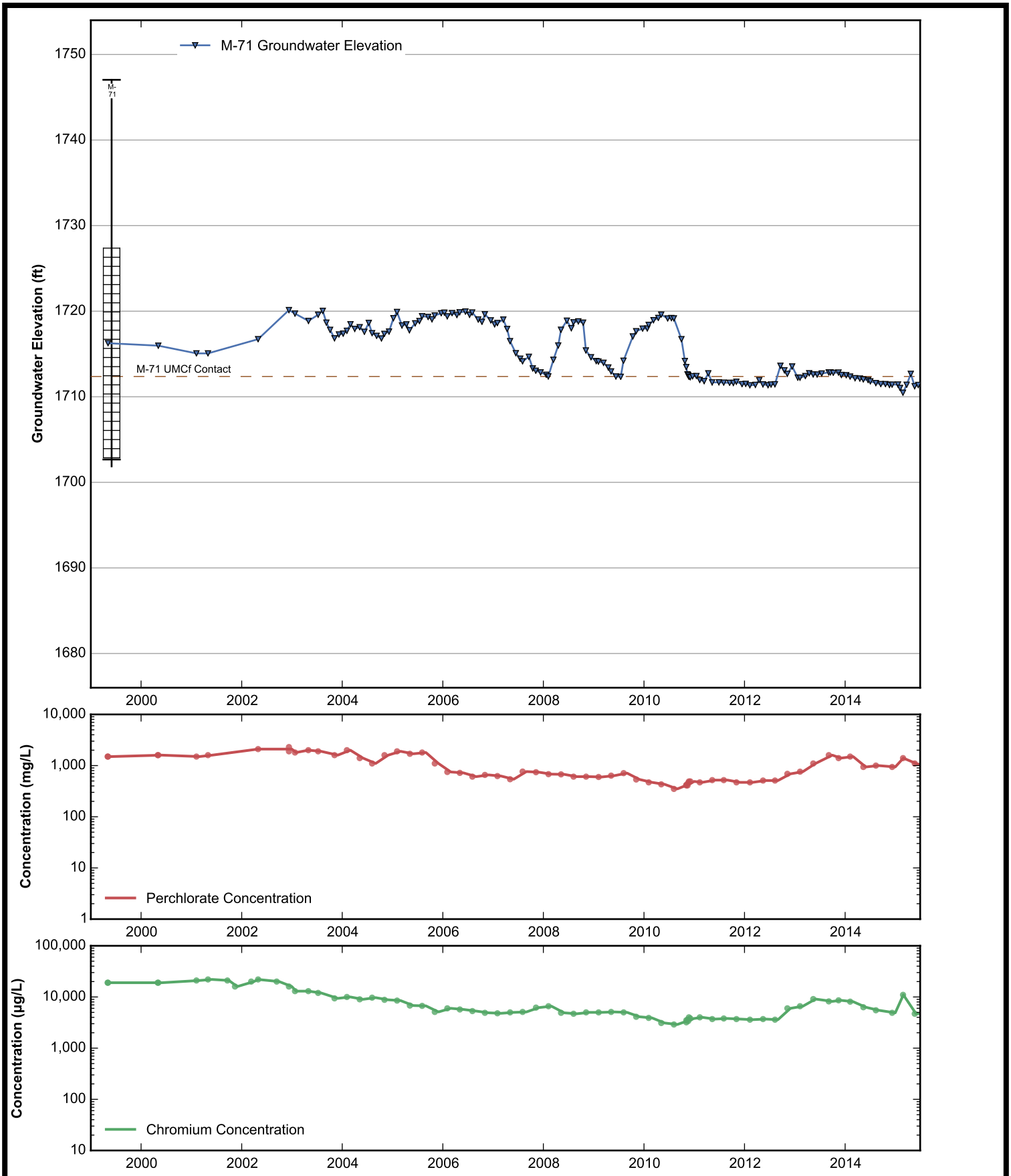


RAMBOLL ENVIRON

Data Sheet for Well M-70
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

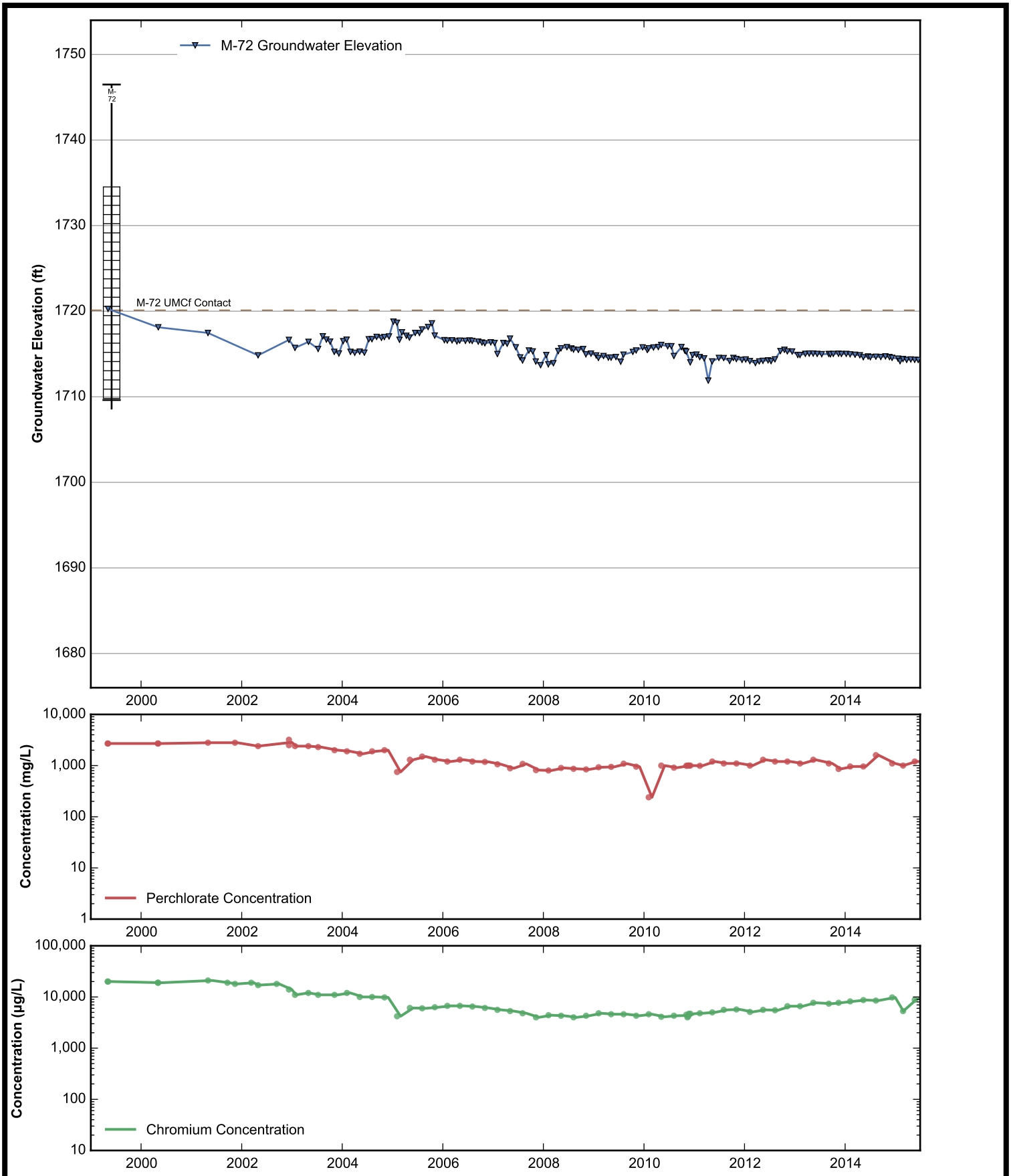


RAMBOLL ENVIRON

Data Sheet for Well M-71
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

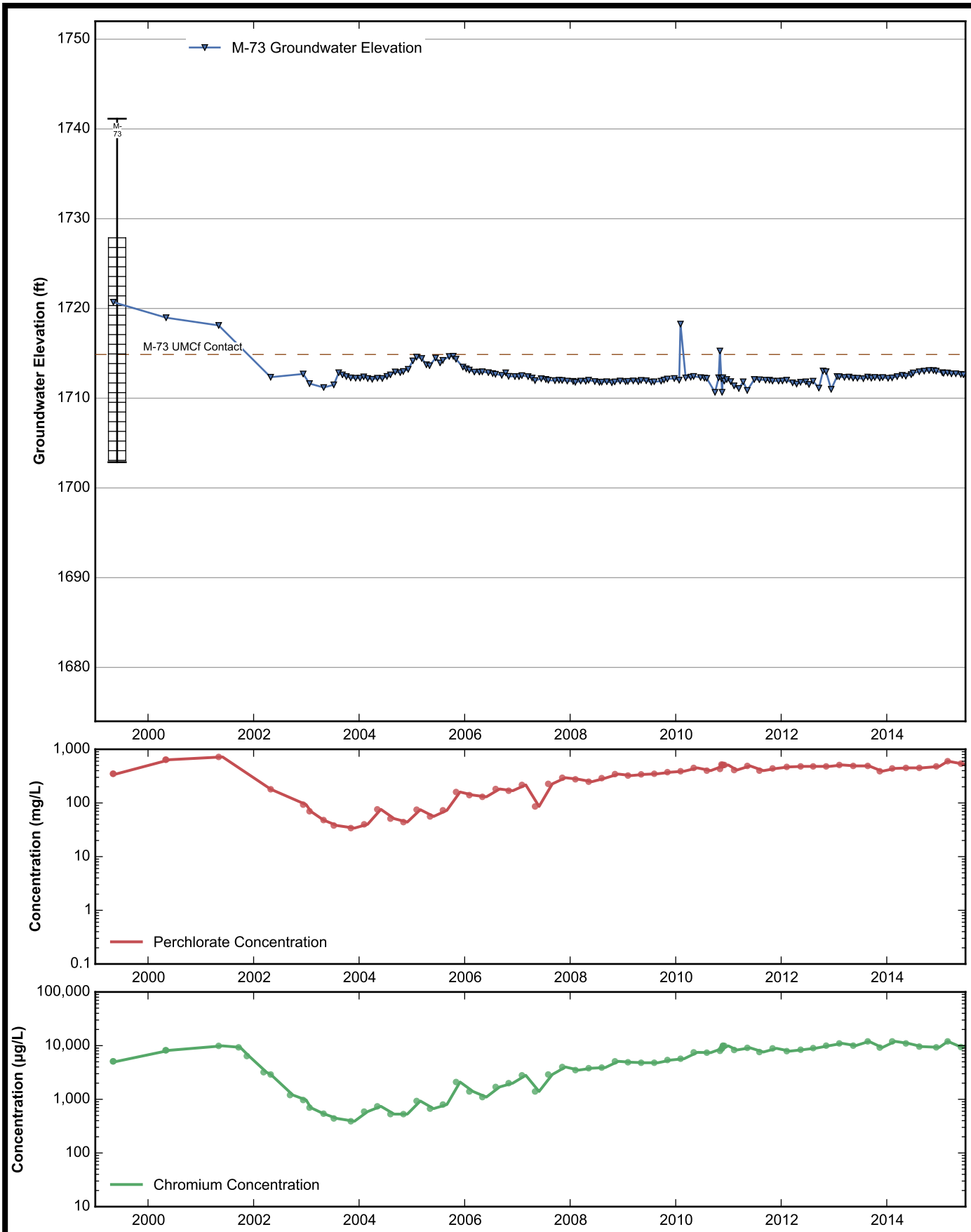


RAMBOLL ENVIRON

Data Sheet for Well M-72
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

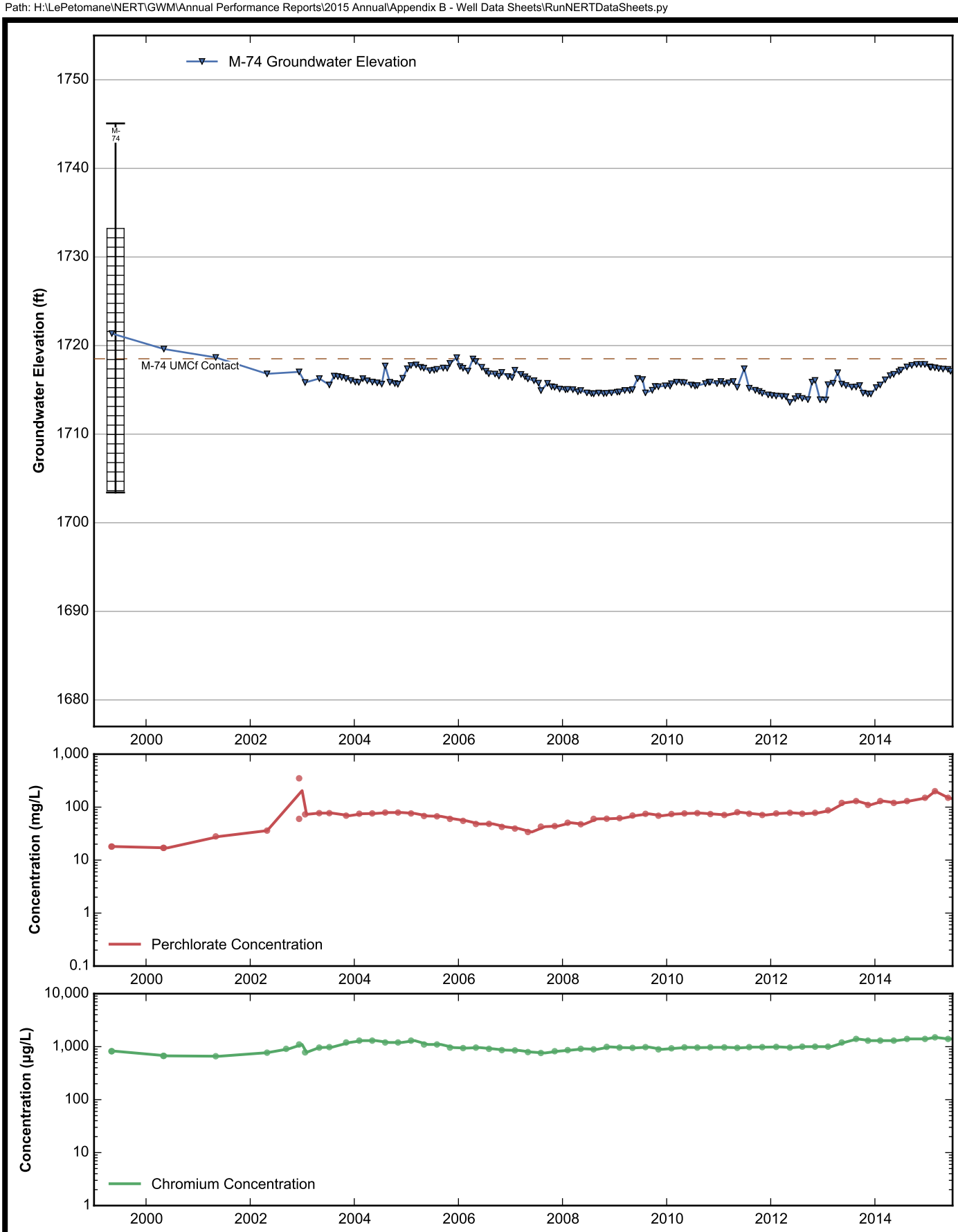


RAMBOLL ENVIRON

Data Sheet for Well M-73
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

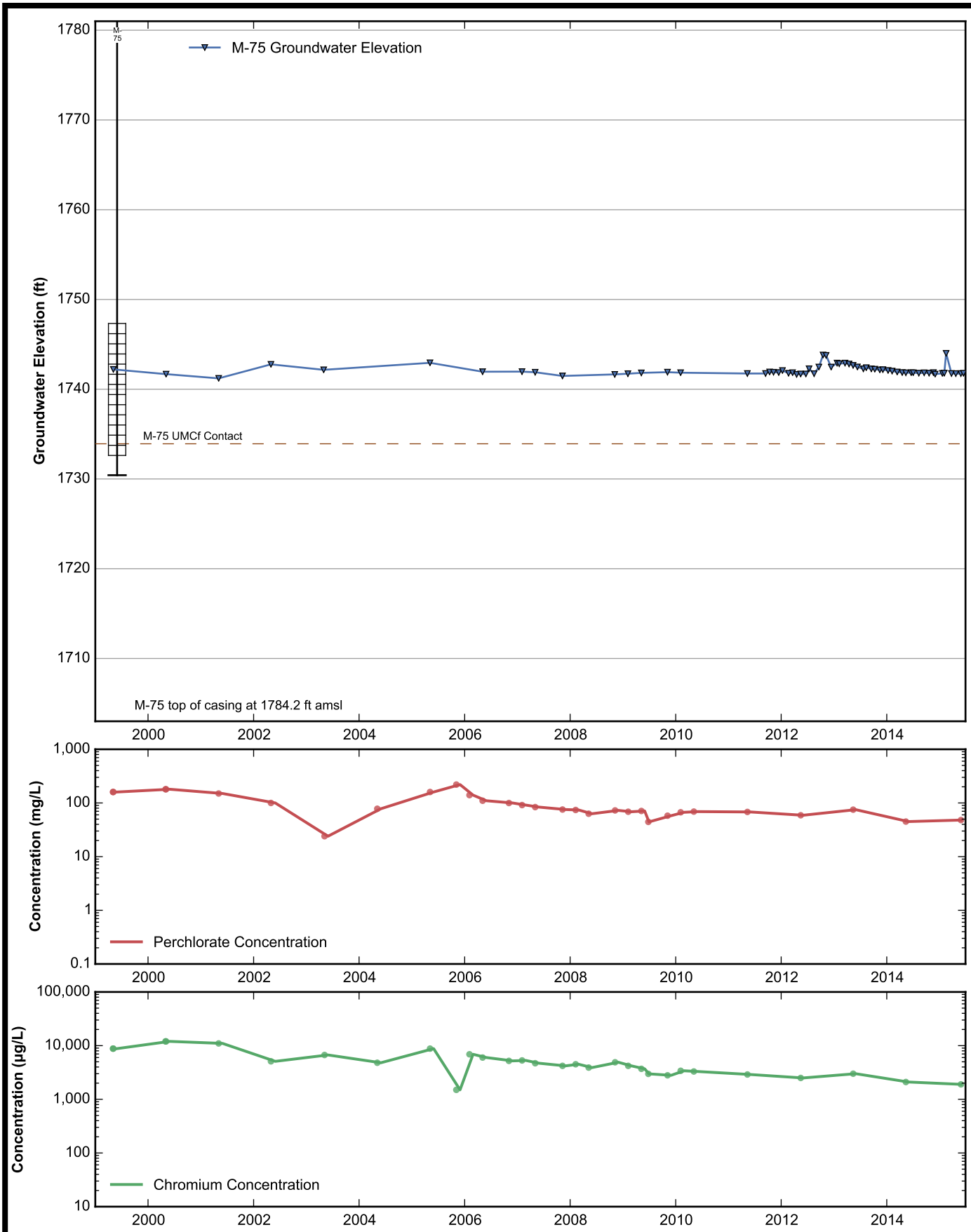


RAMBOLL ENVIRON

Data Sheet for Well M-74
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

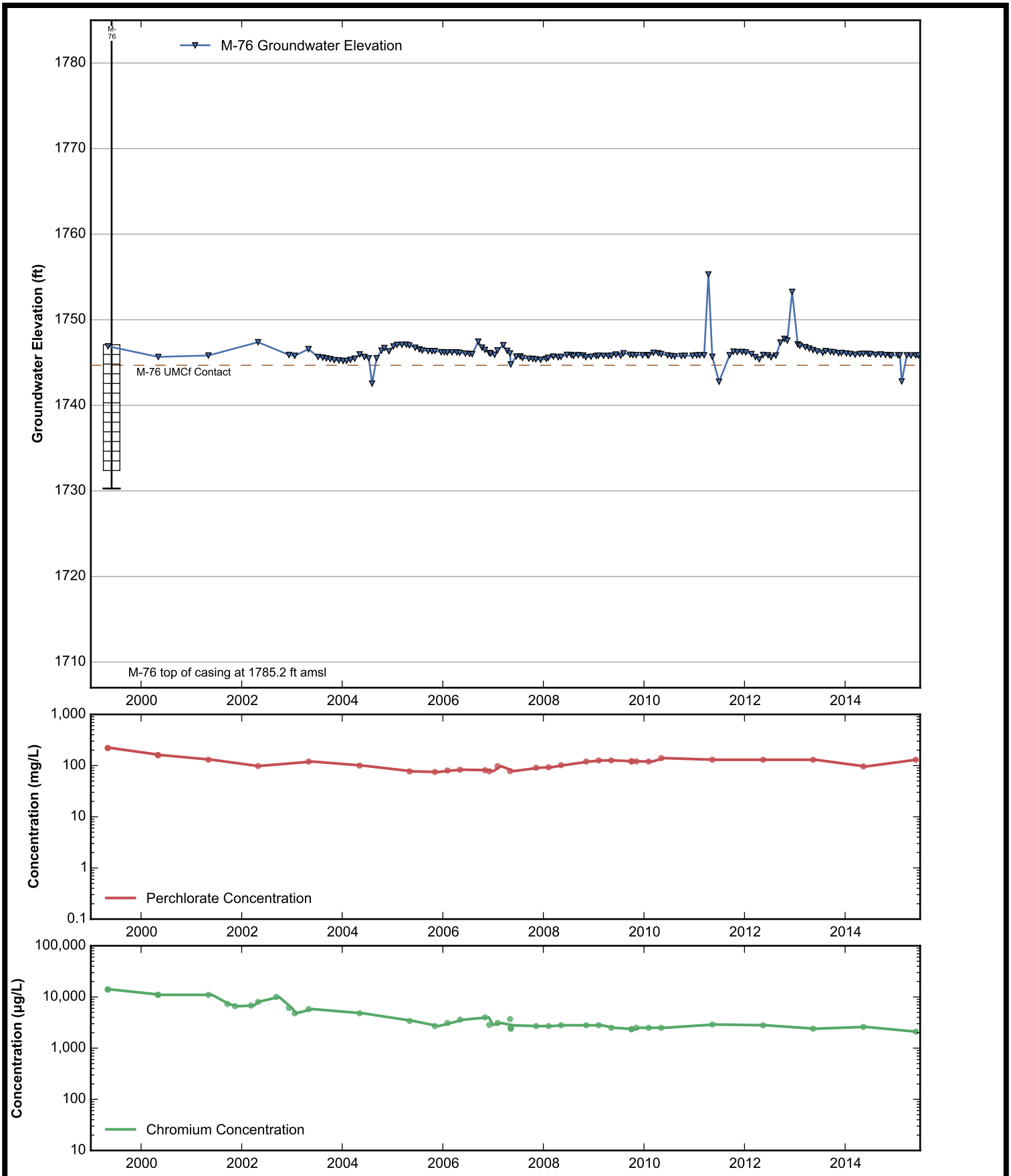


RAMBOLL ENVIRON

Data Sheet for Well M-75
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

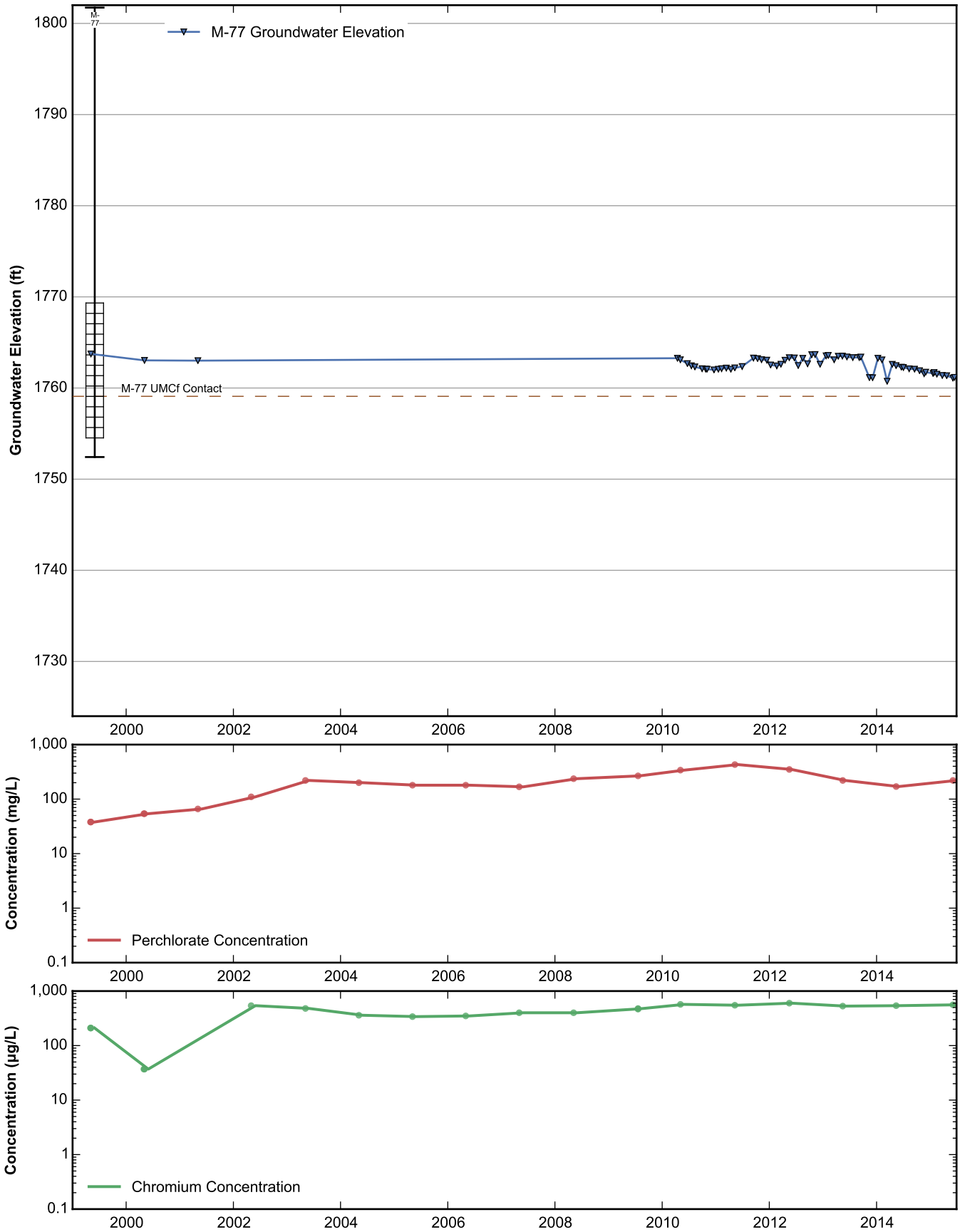


RAMBOLL ENVIRON

Data Sheet for Well M-76
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

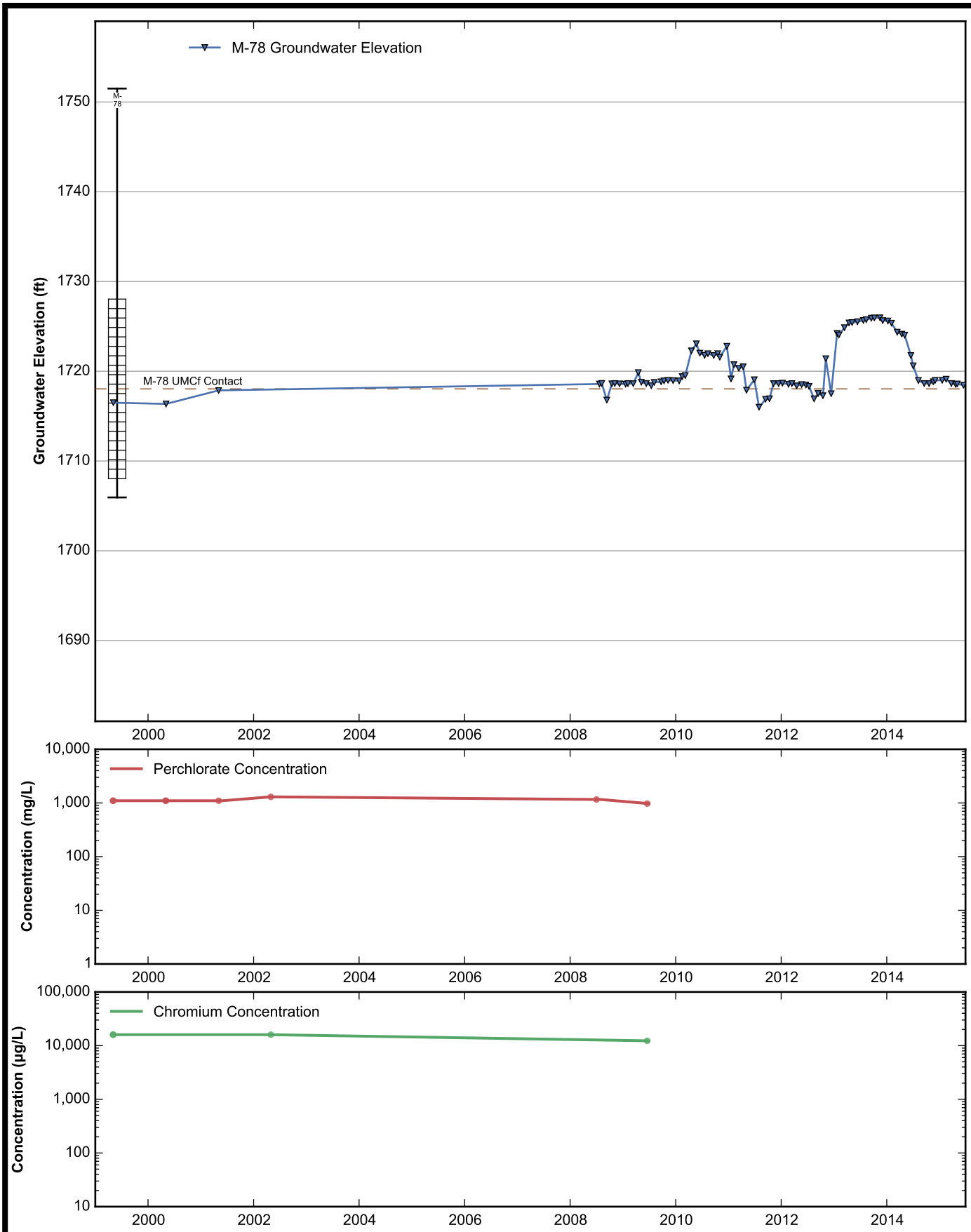


RAMBOLL ENVIRON

Data Sheet for Well M-77
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

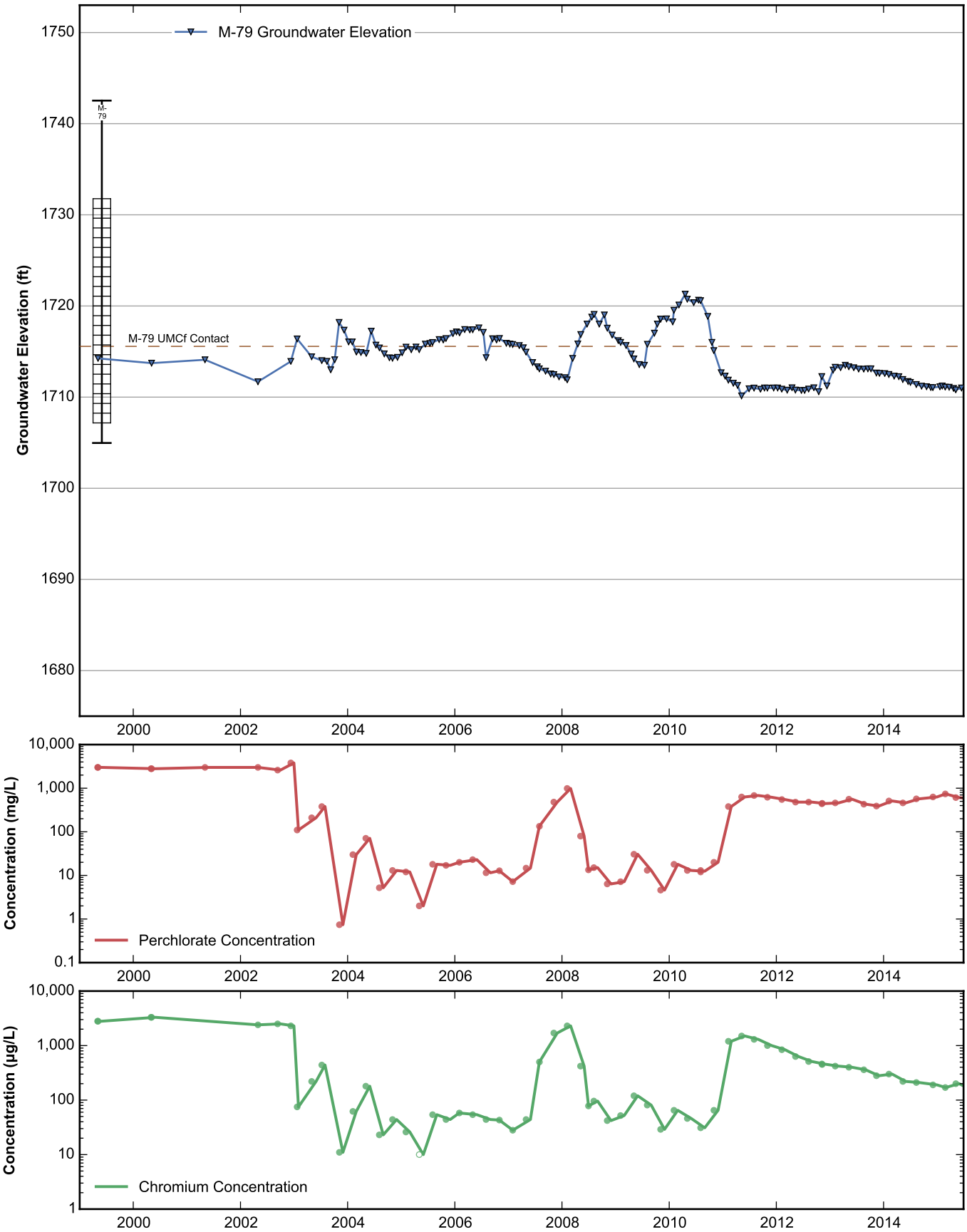


RAMBOLL ENVIRON

Data Sheet for Well M-78
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

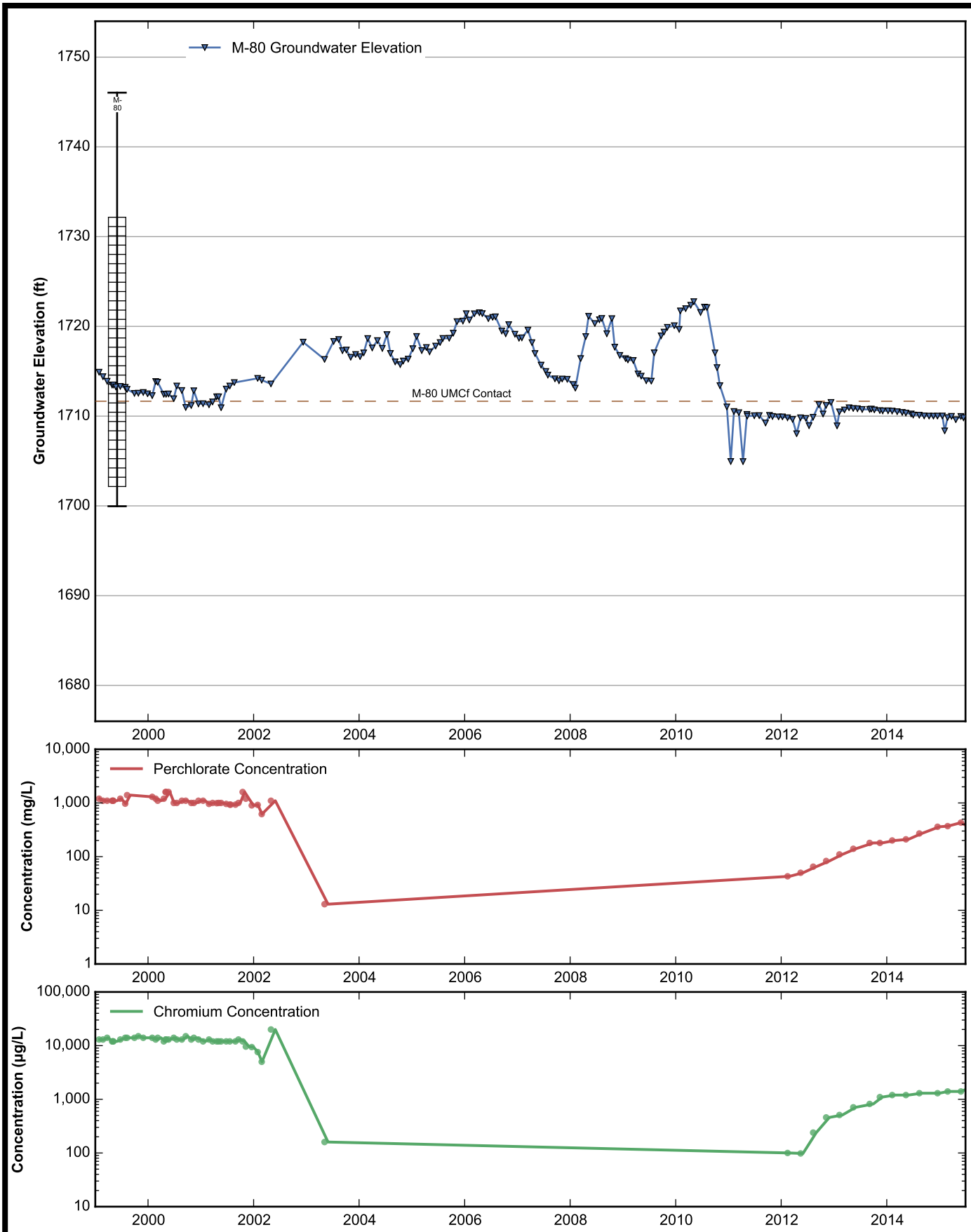


RAMBOLL ENVIRON

Data Sheet for Well M-79
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

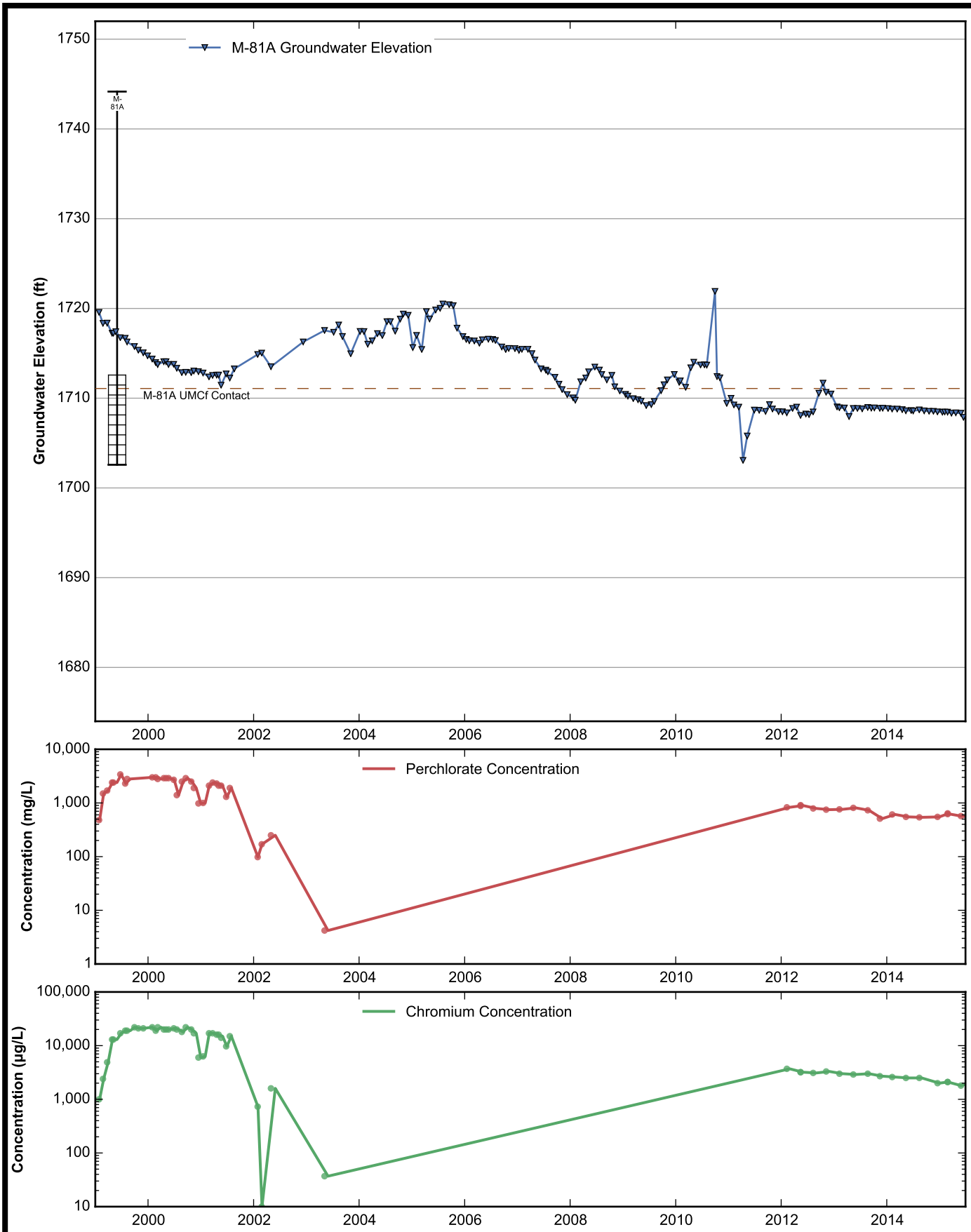


RAMBOLL ENVIRON

Data Sheet for Well M-80
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

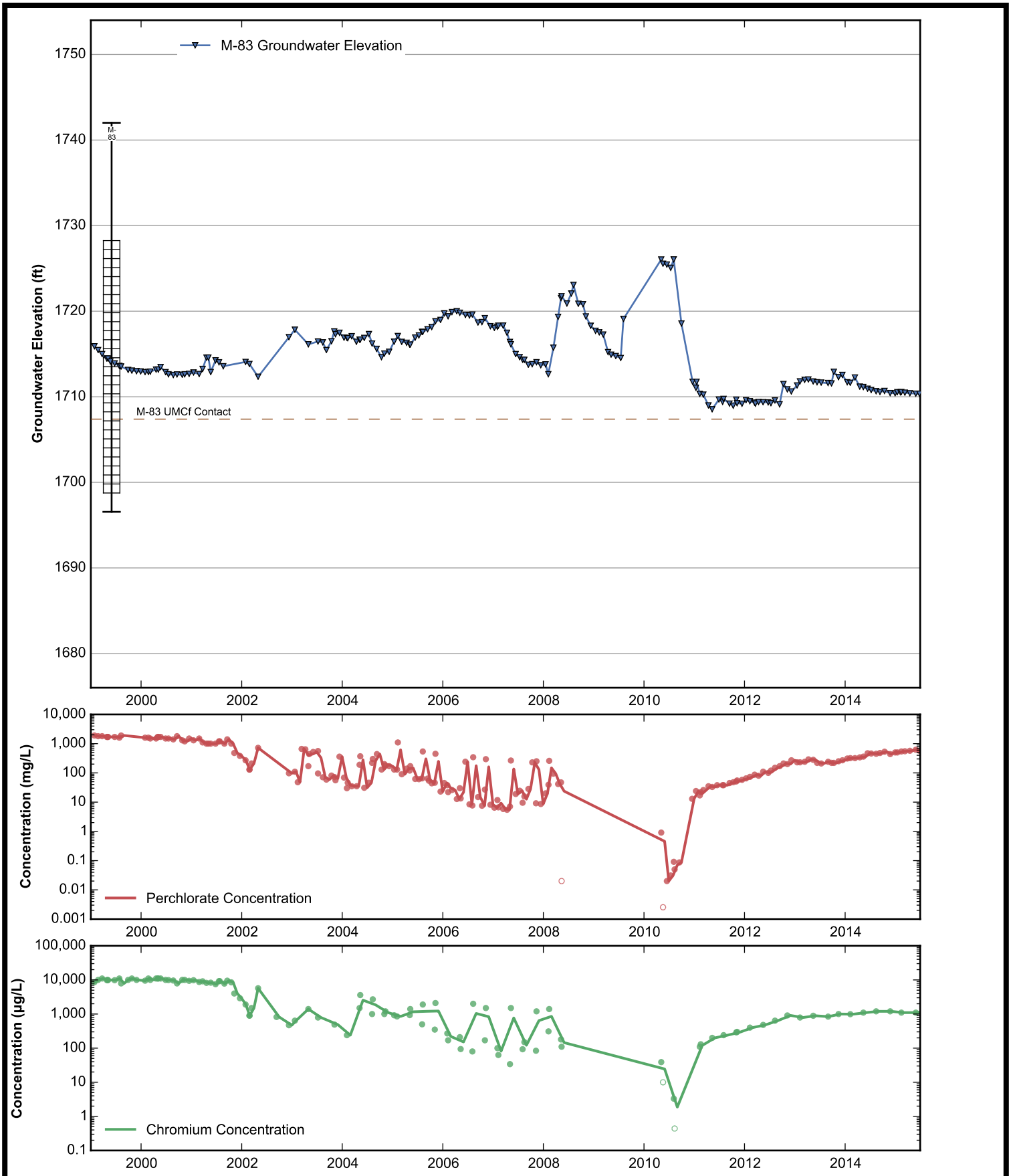


RAMBOLL ENVIRON

Data Sheet for Well M-81A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

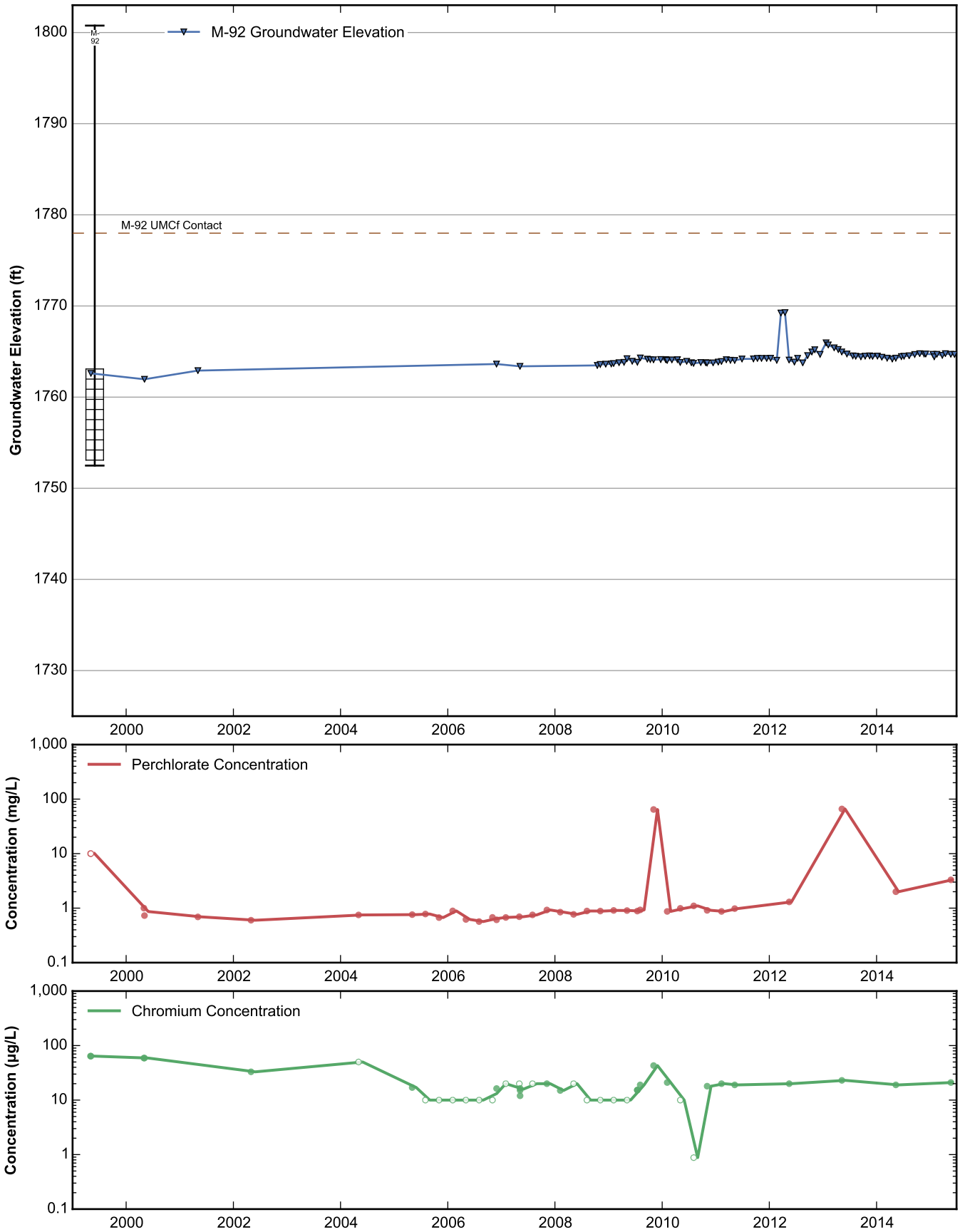


RAMBOLL ENVIRON

Data Sheet for Well M-83
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

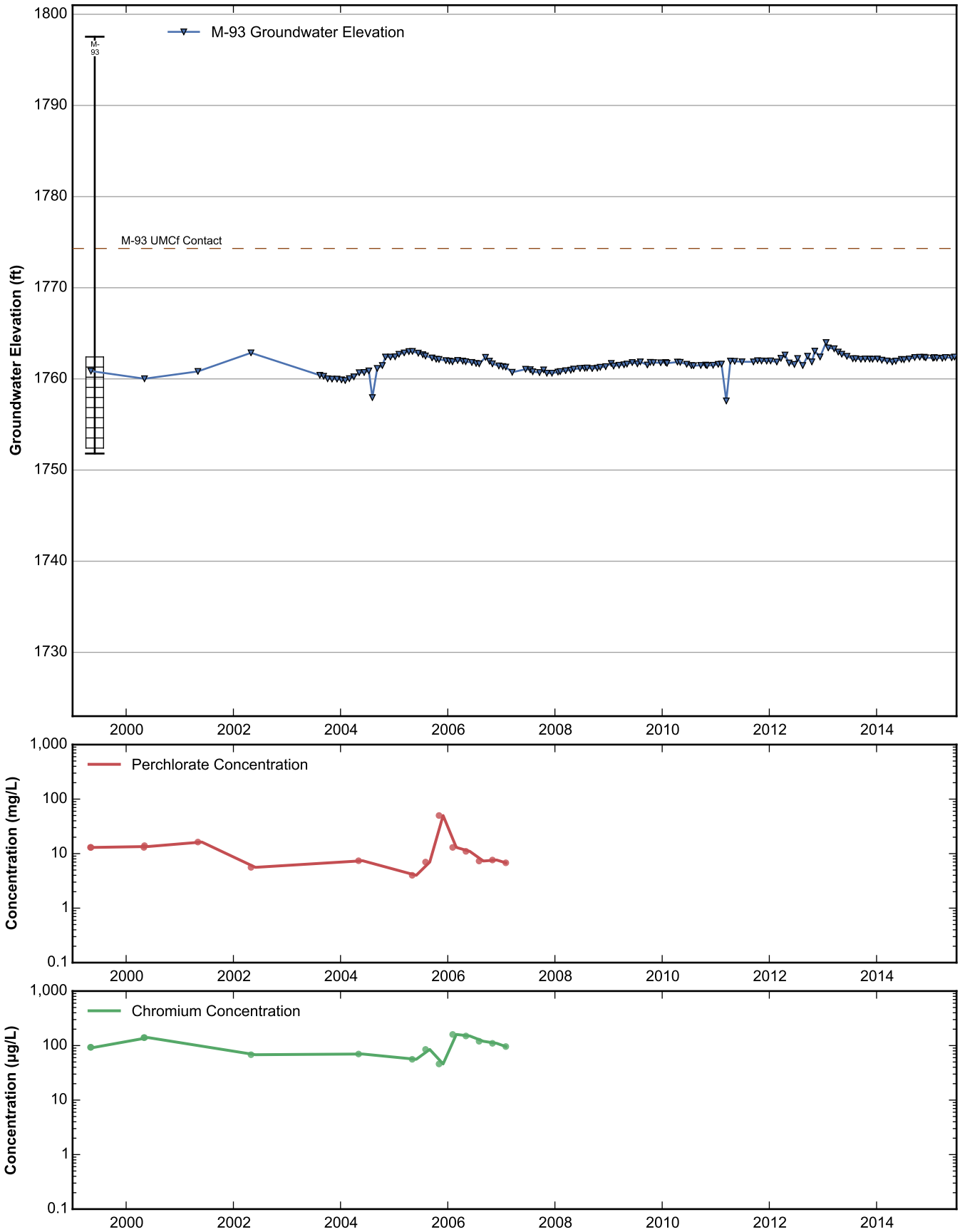


RAMBOLL ENVIRON

Data Sheet for Well M-92
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

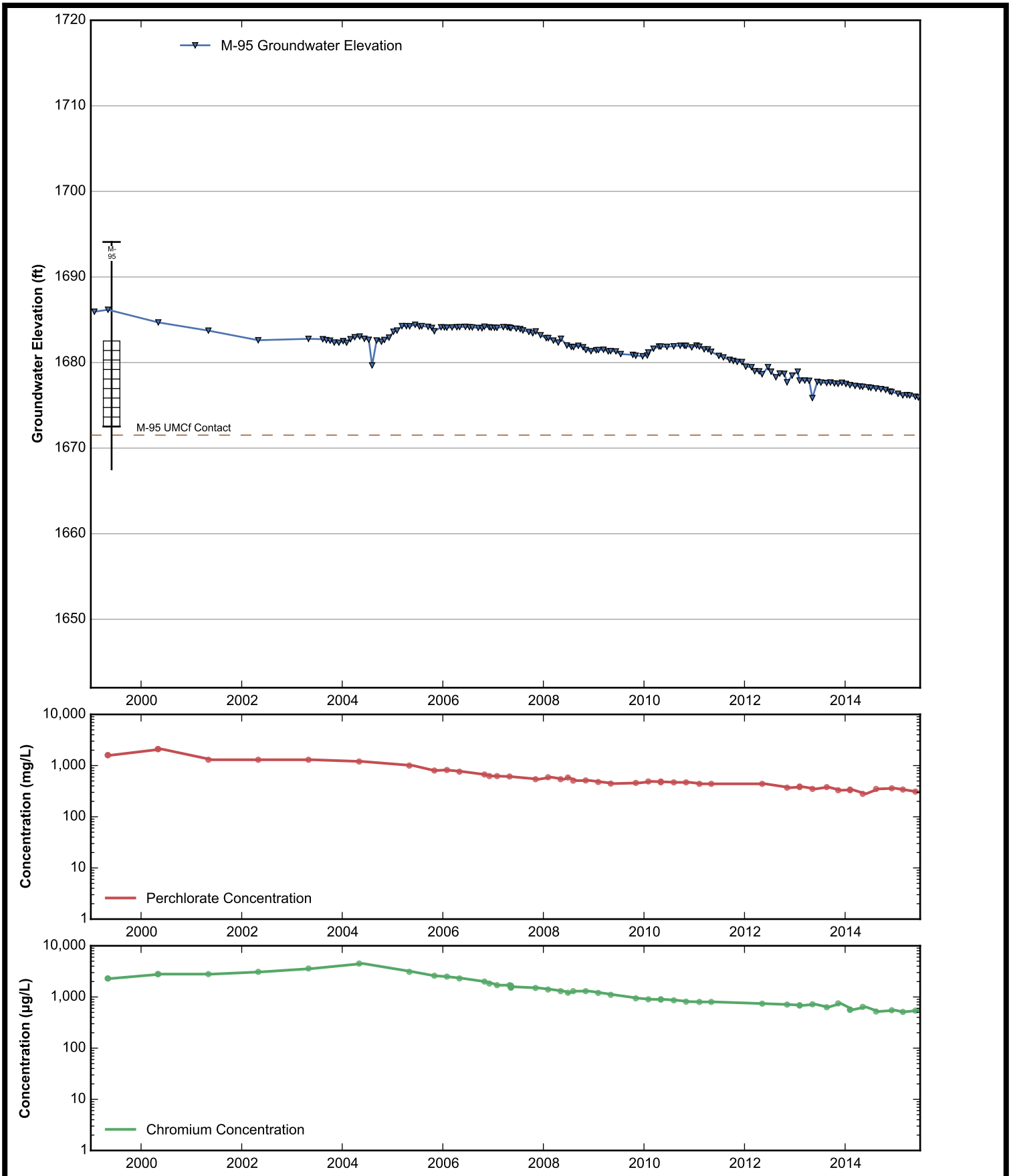


RAMBOLL ENVIRON

Data Sheet for Well M-93
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

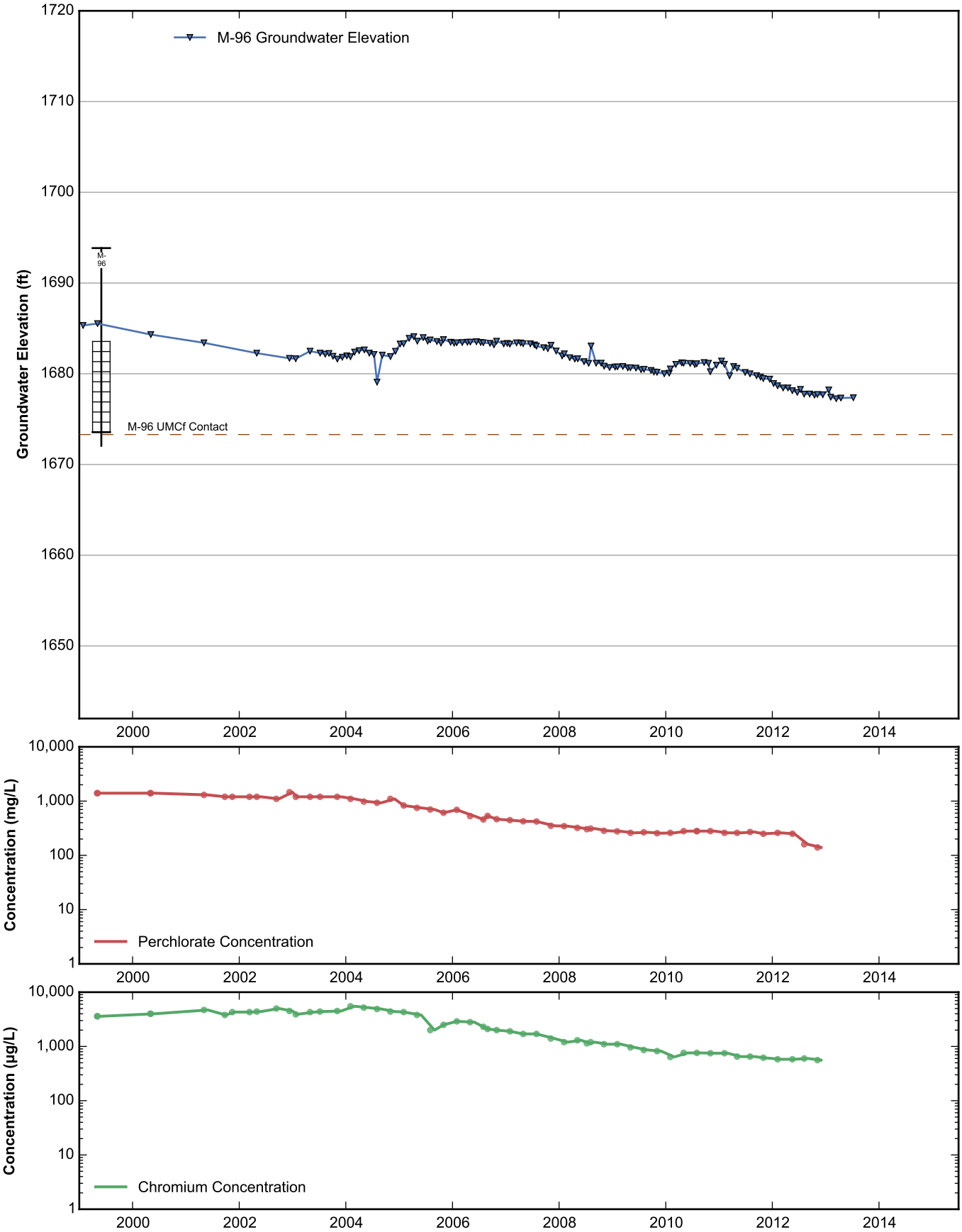


RAMBOLL ENVIRON

Data Sheet for Well M-95
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

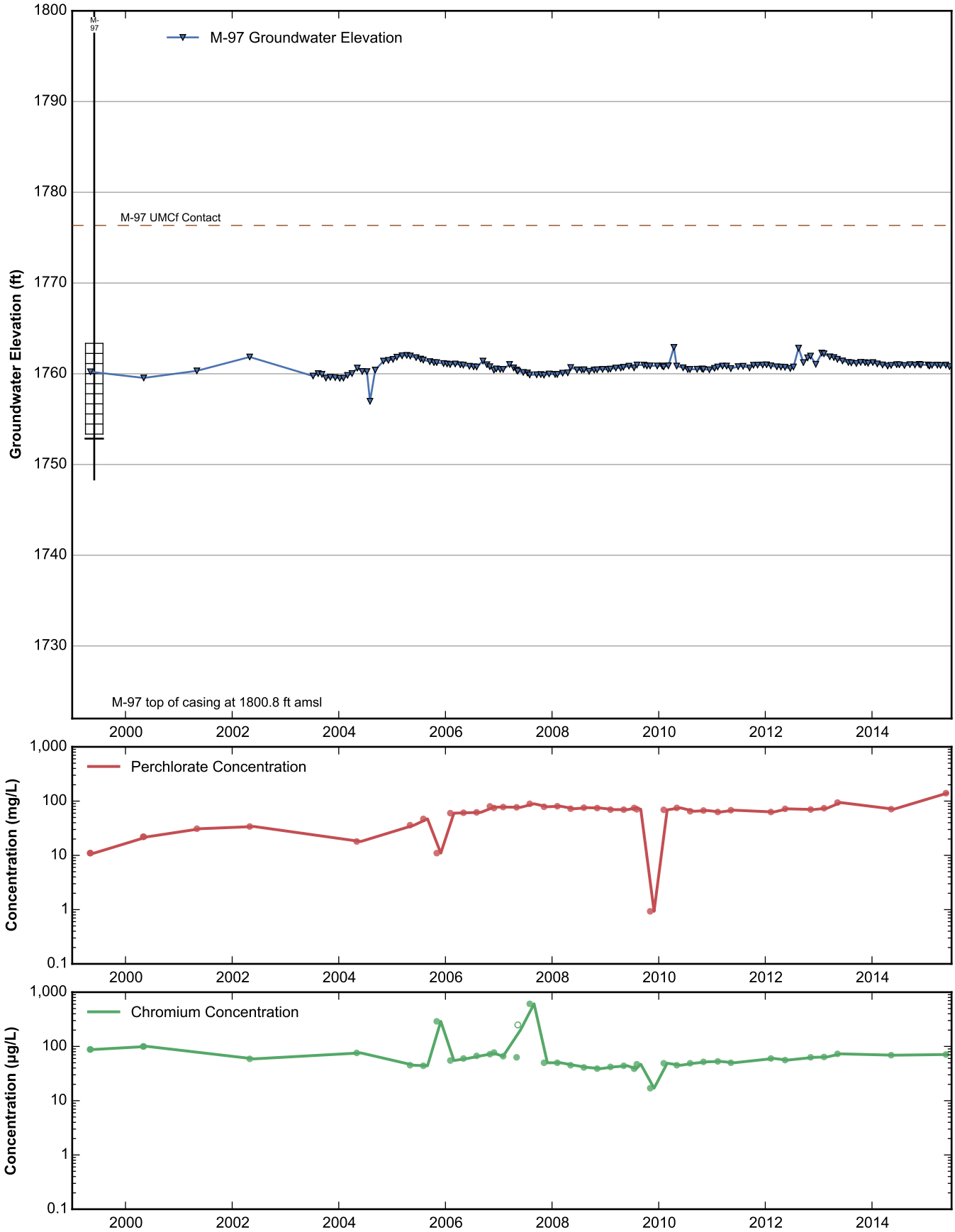


RAMBOLL ENVIRON

Data Sheet for Well M-96
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

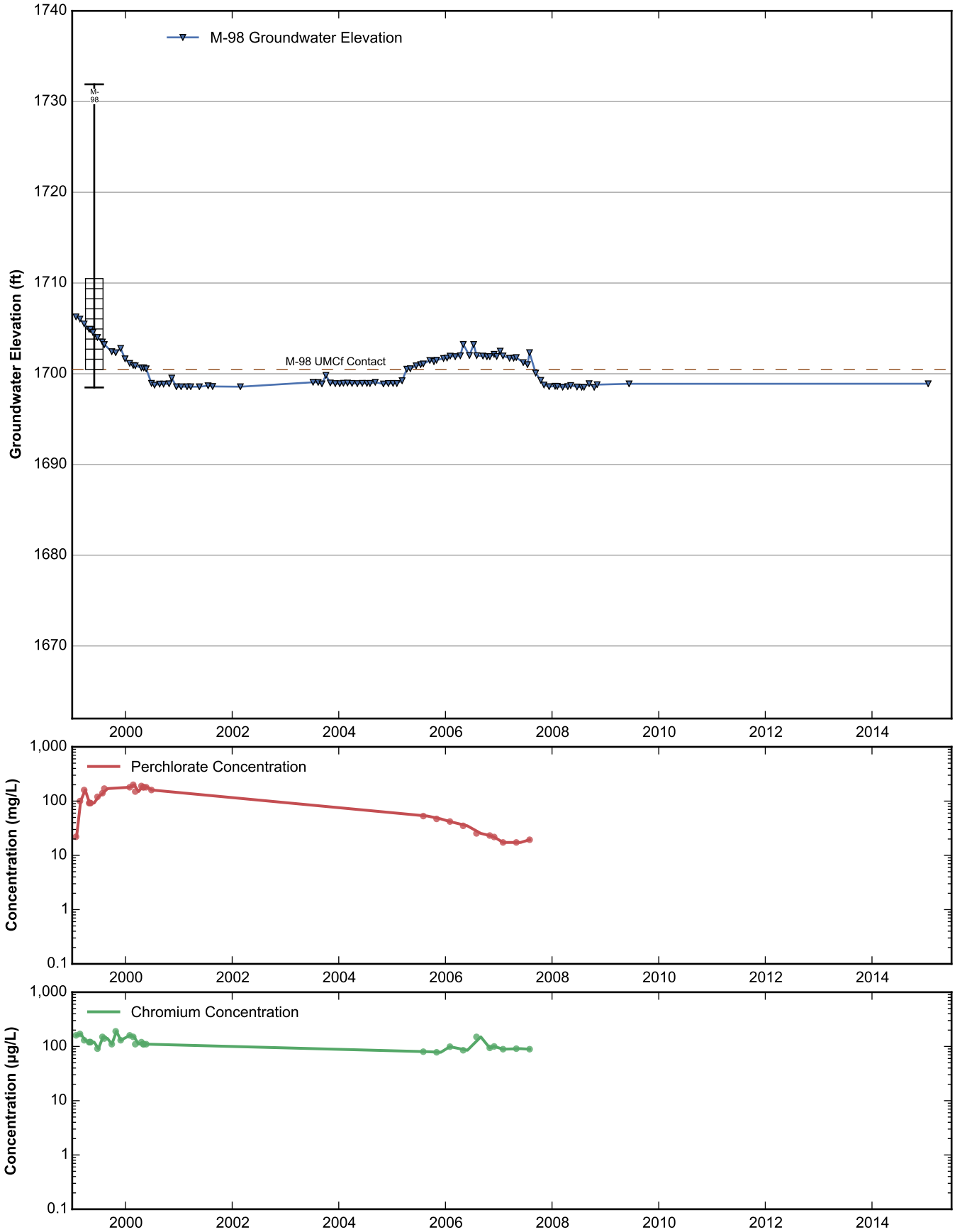


RAMBOLL ENVIRON

Data Sheet for Well M-97
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

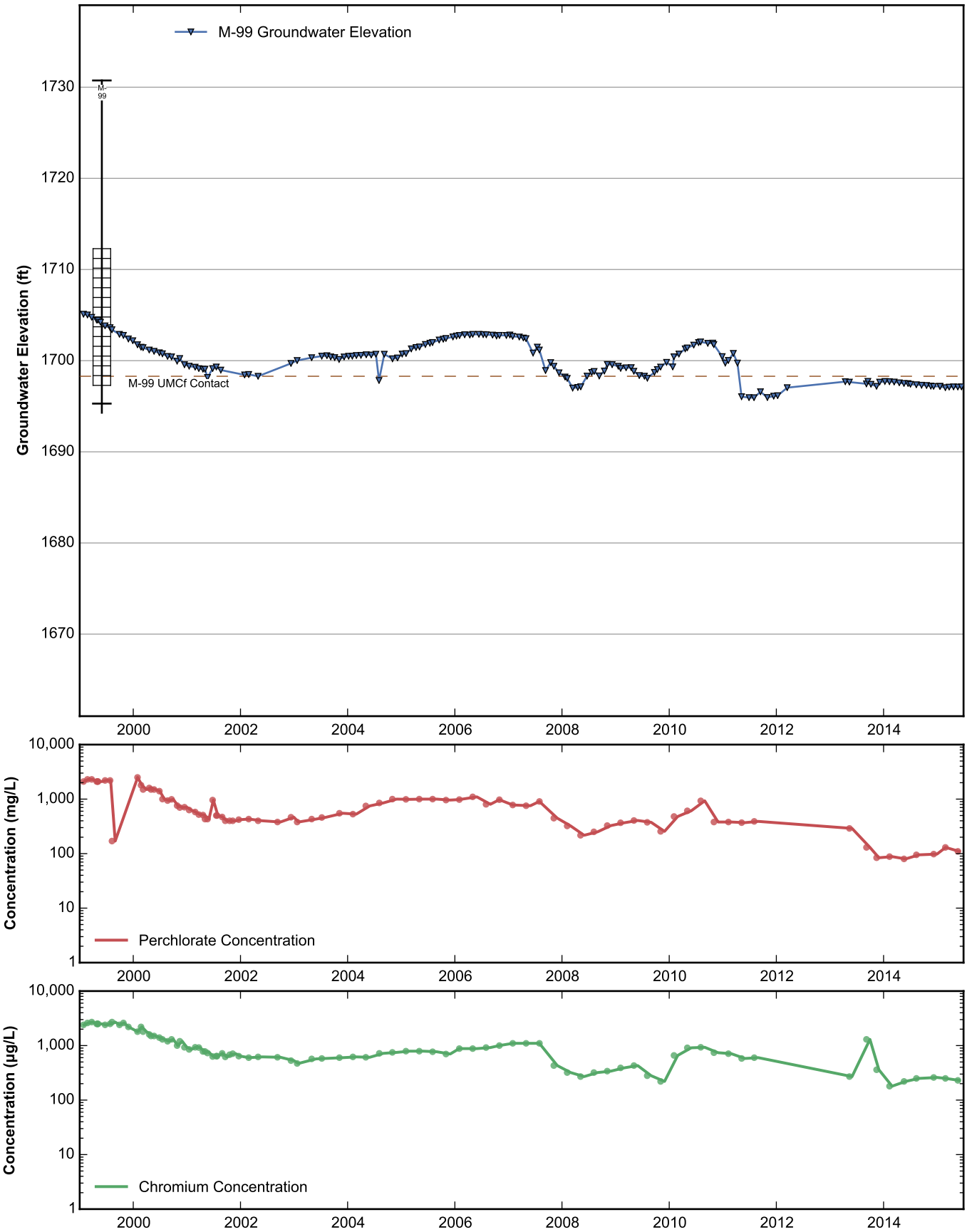


RAMBOLL ENVIRON

Data Sheet for Well M-98
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

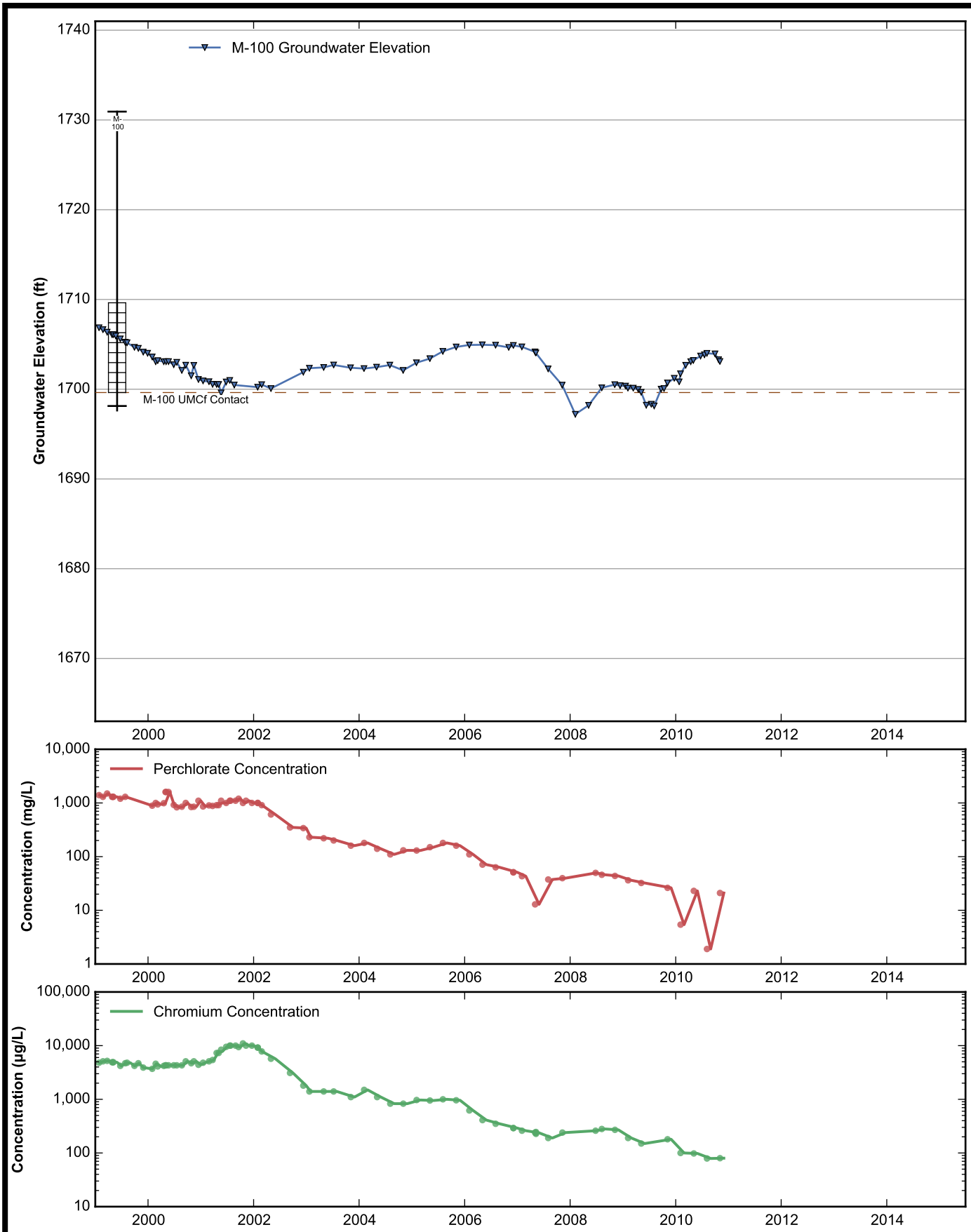


RAMBOLL ENVIRON

Data Sheet for Well M-99
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

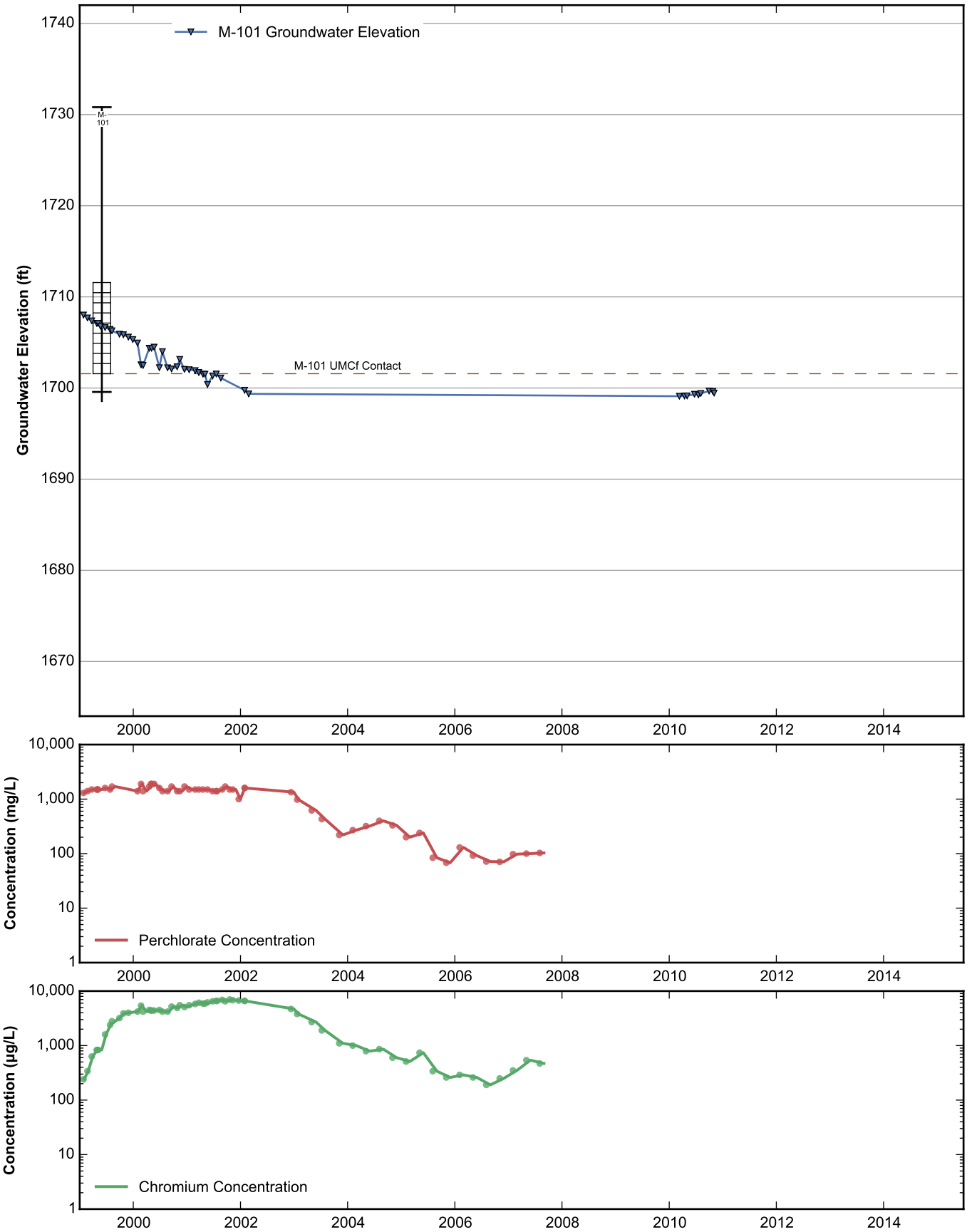


RAMBOLL ENVIRON

Data Sheet for Well M-100
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

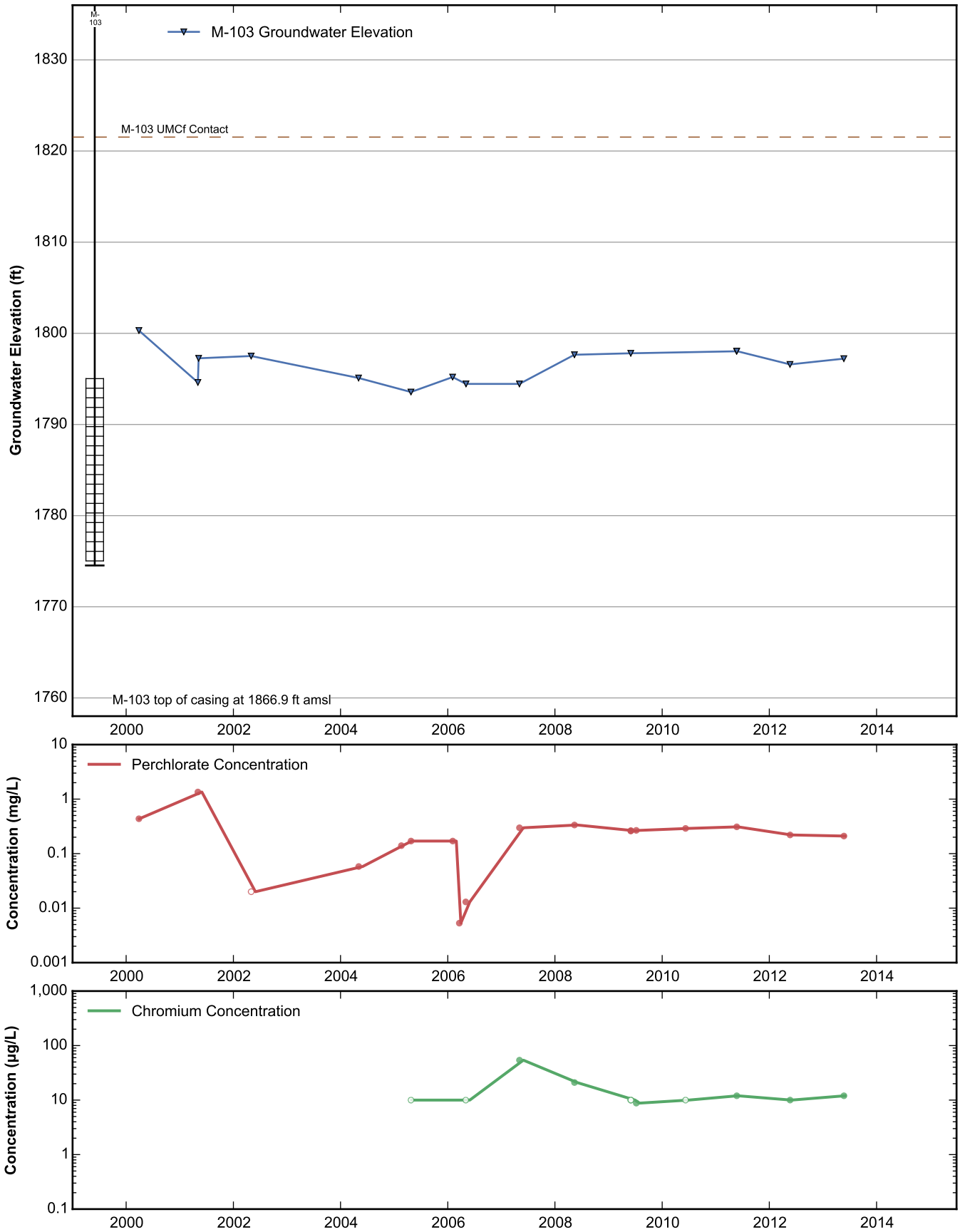


RAMBOLL ENVIRON

Data Sheet for Well M-101
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

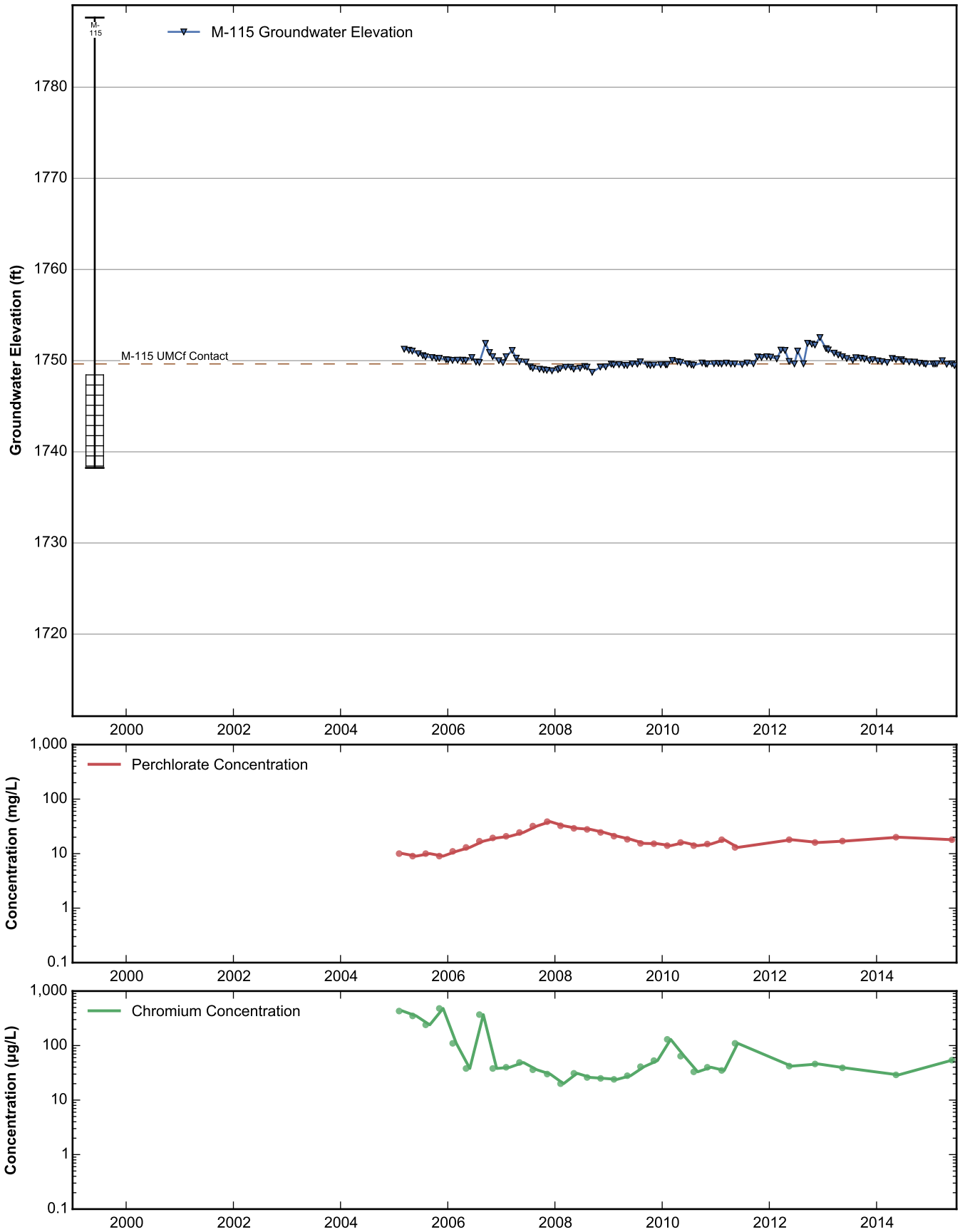


RAMBOLL ENVIRON

Data Sheet for Well M-103
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

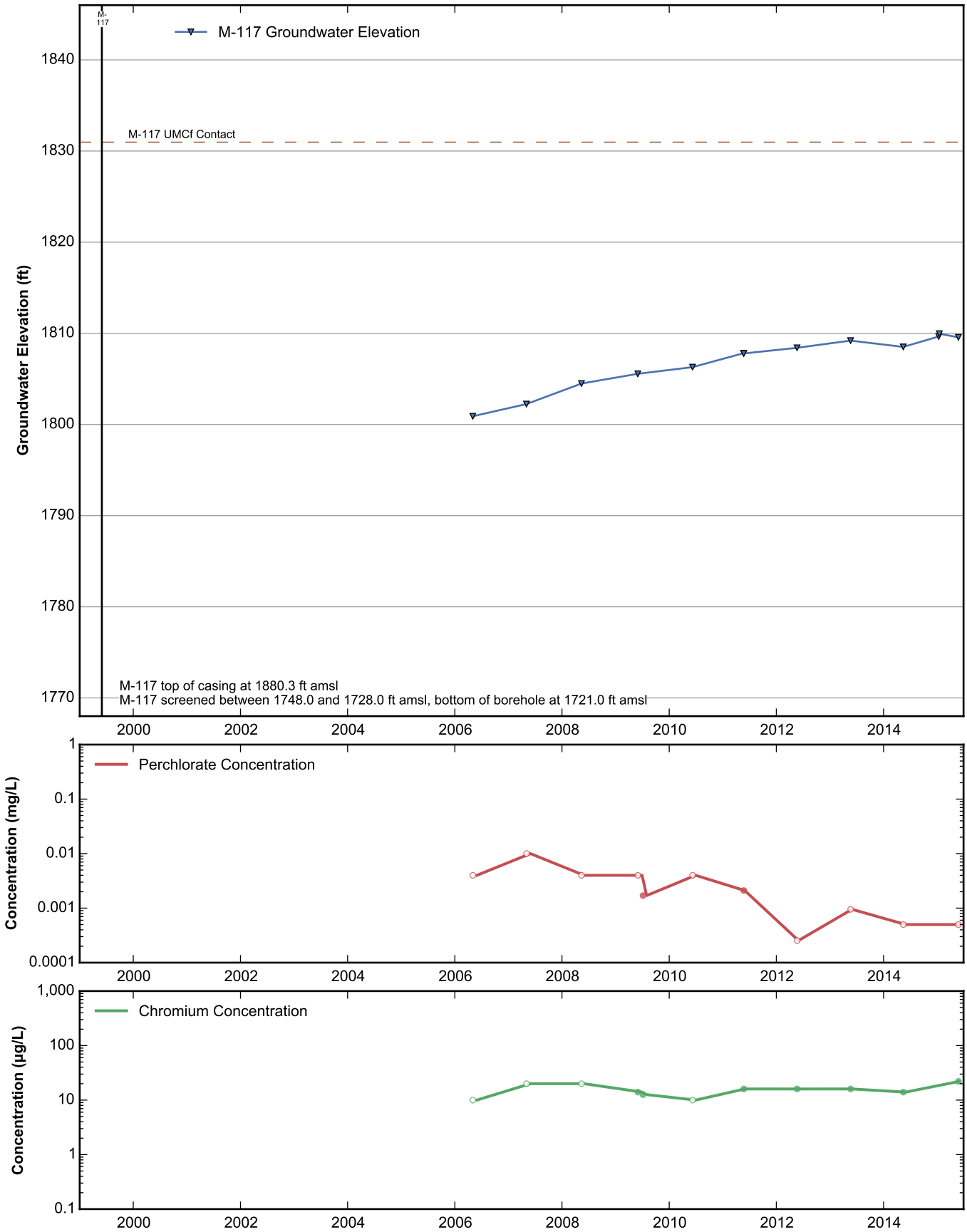


RAMBOLL ENVIRON

Data Sheet for Well M-115
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

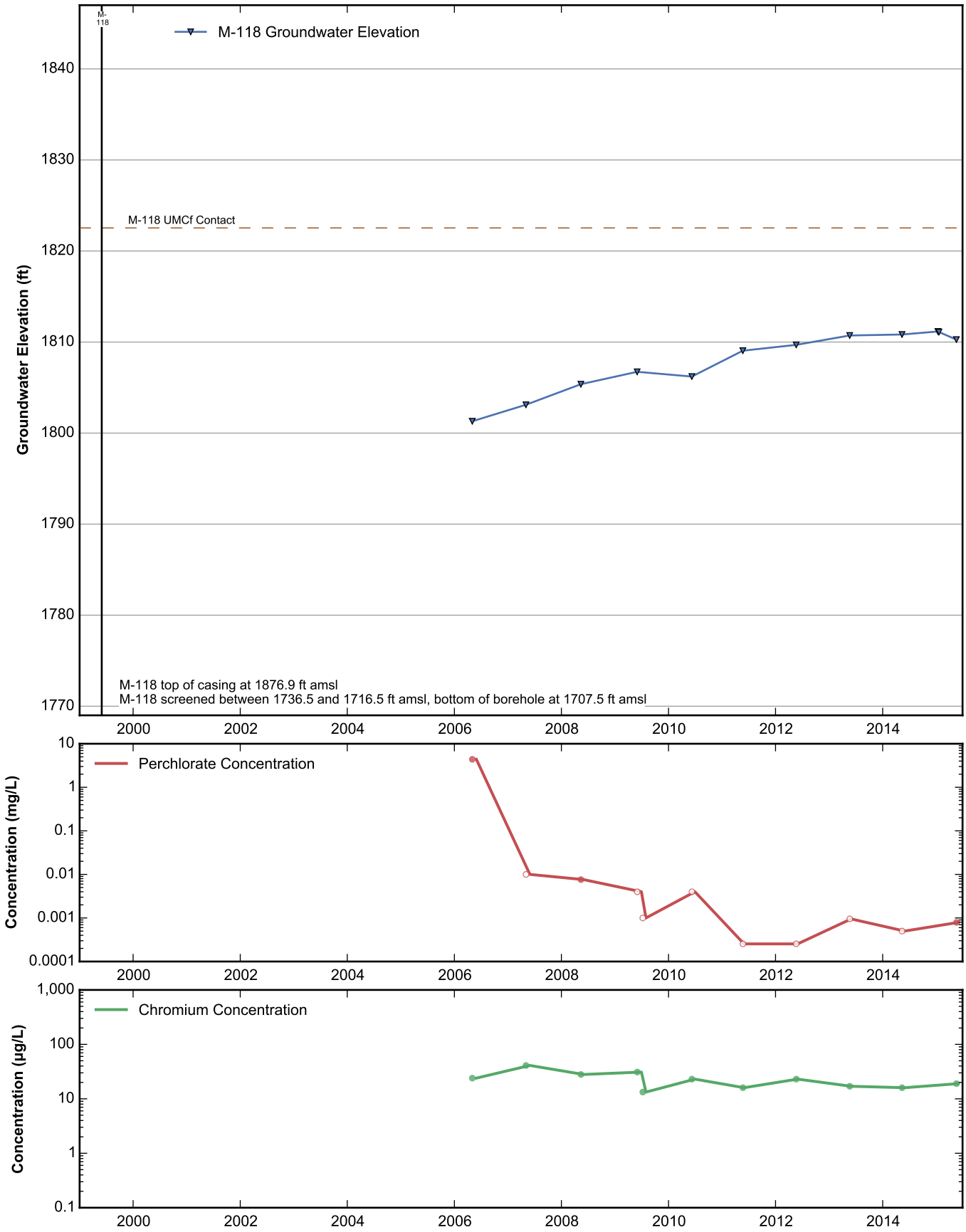


RAMBOLL ENVIRON

Data Sheet for Well M-117
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

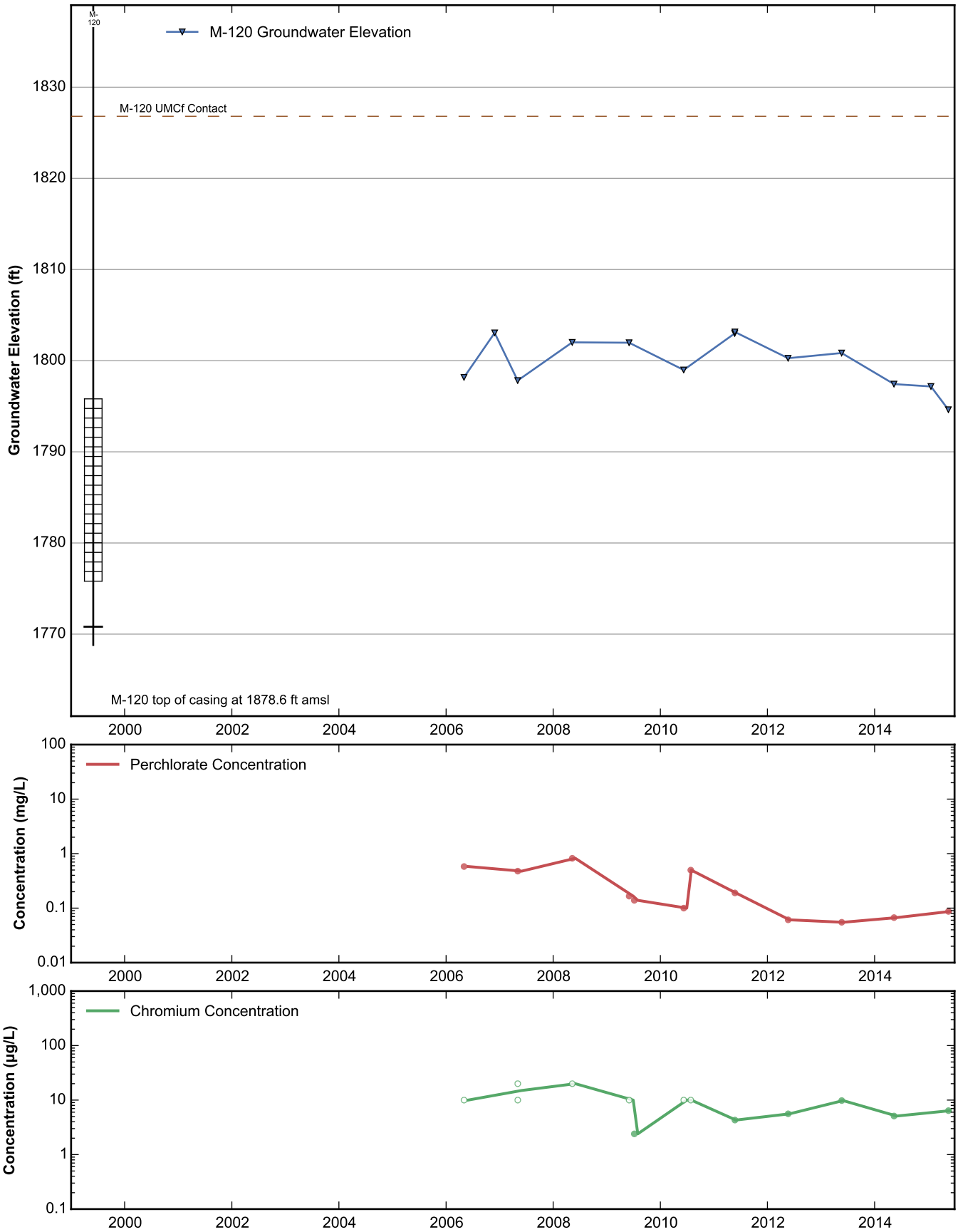


RAMBOLL ENVIRON

Data Sheet for Well M-118
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

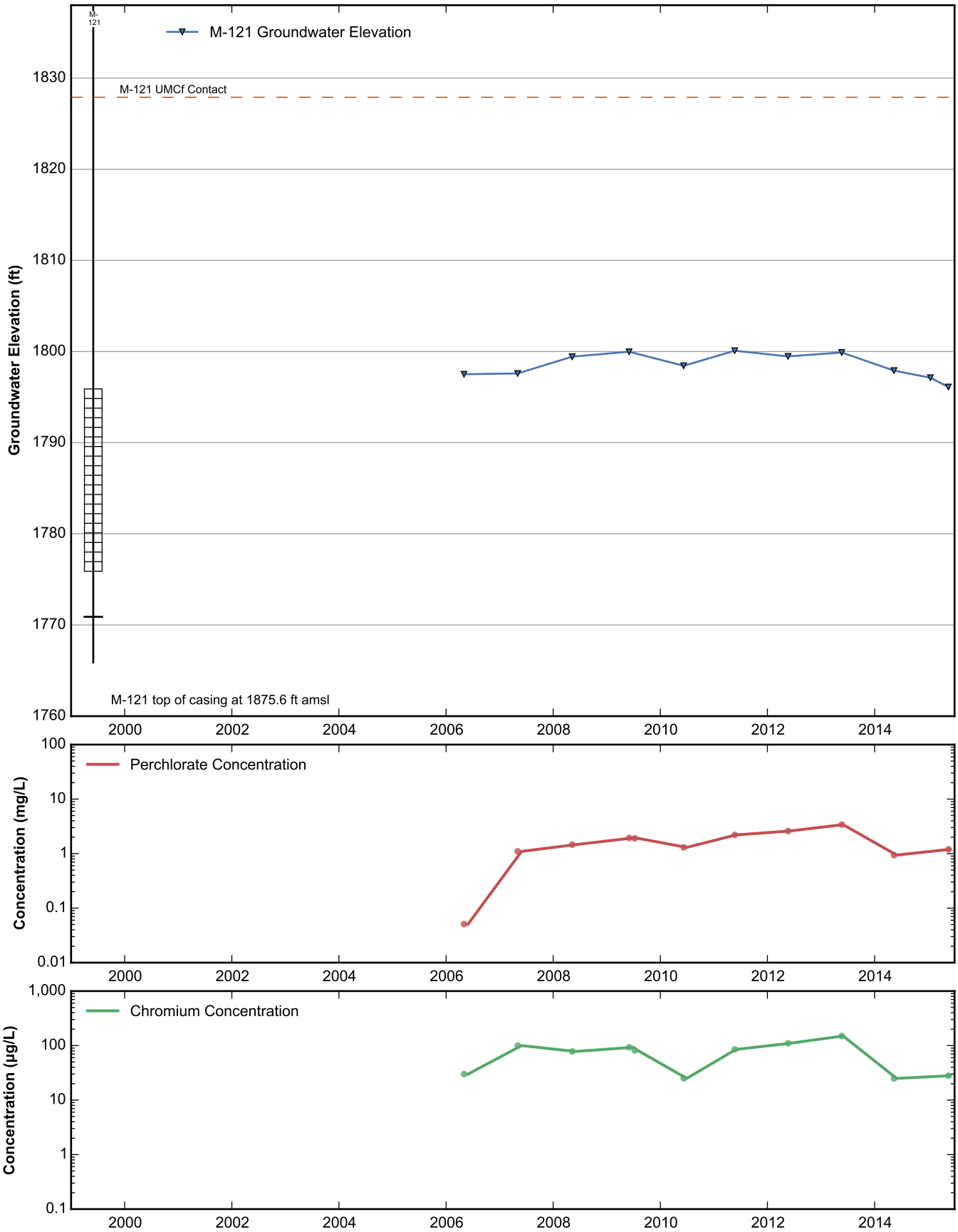


RAMBOLL ENVIRON

Data Sheet for Well M-120
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

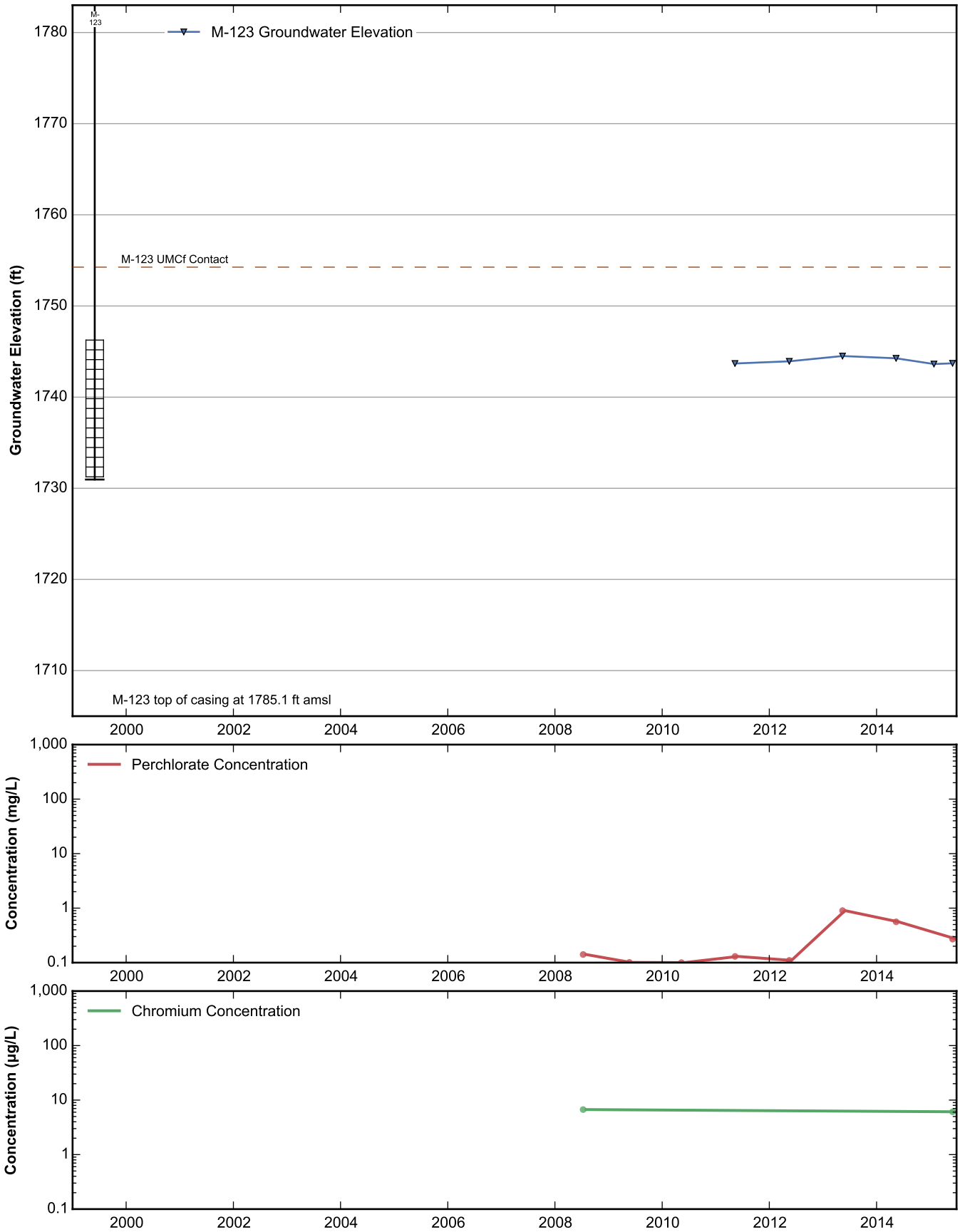


RAMBOLL ENVIRON

Data Sheet for Well M-121
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

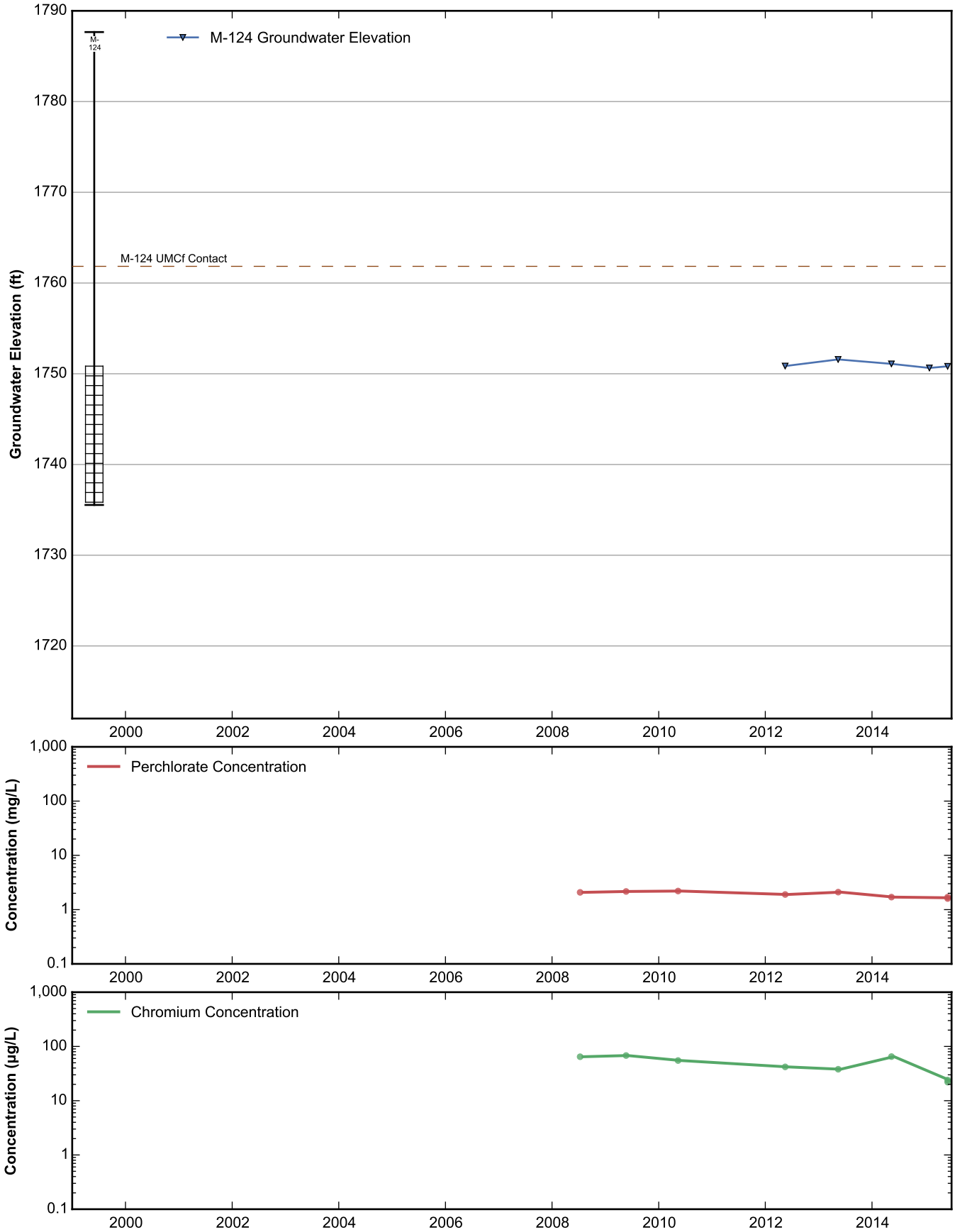


RAMBOLL ENVIRON

Data Sheet for Well M-123
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

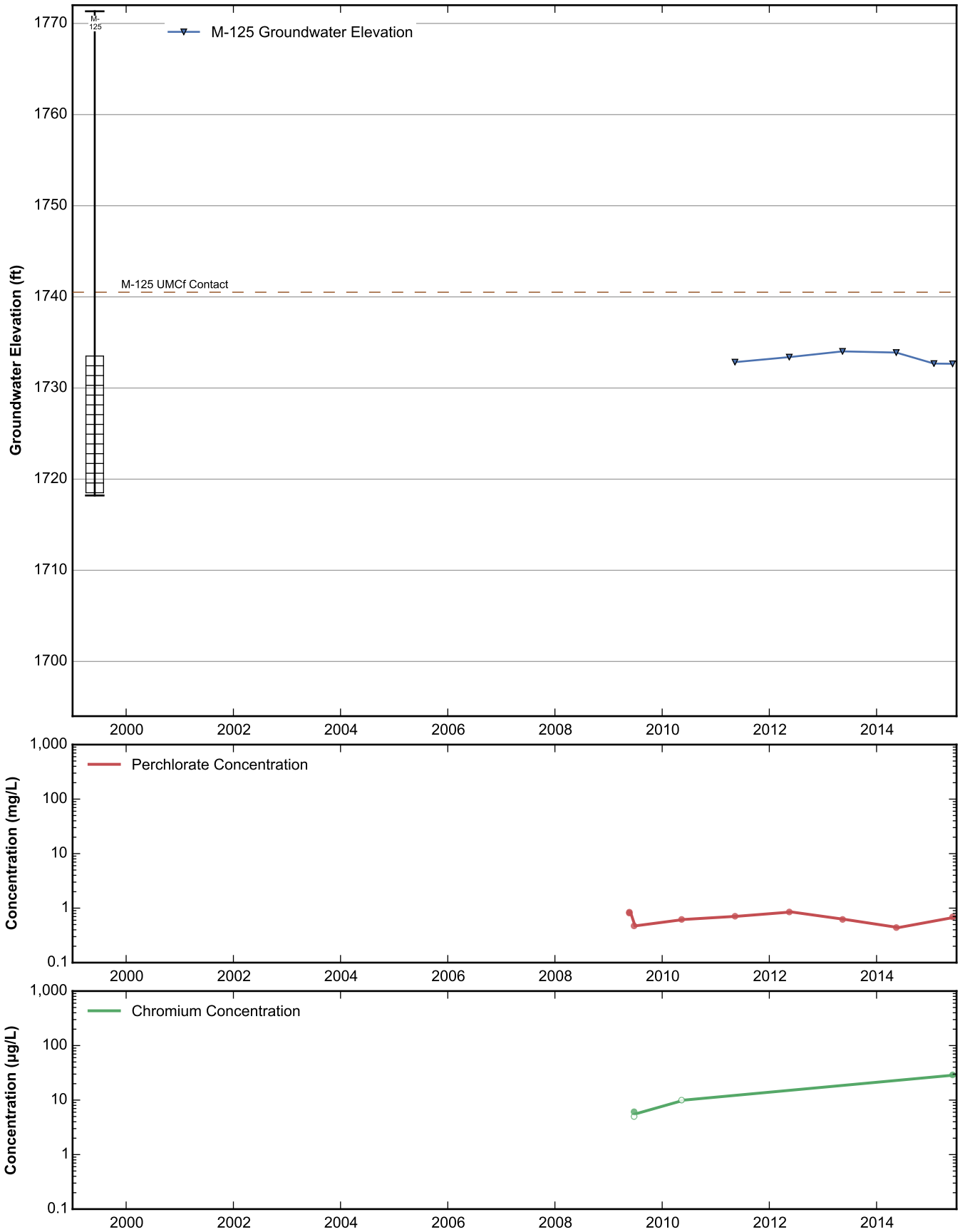


RAMBOLL ENVIRON

Data Sheet for Well M-124
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

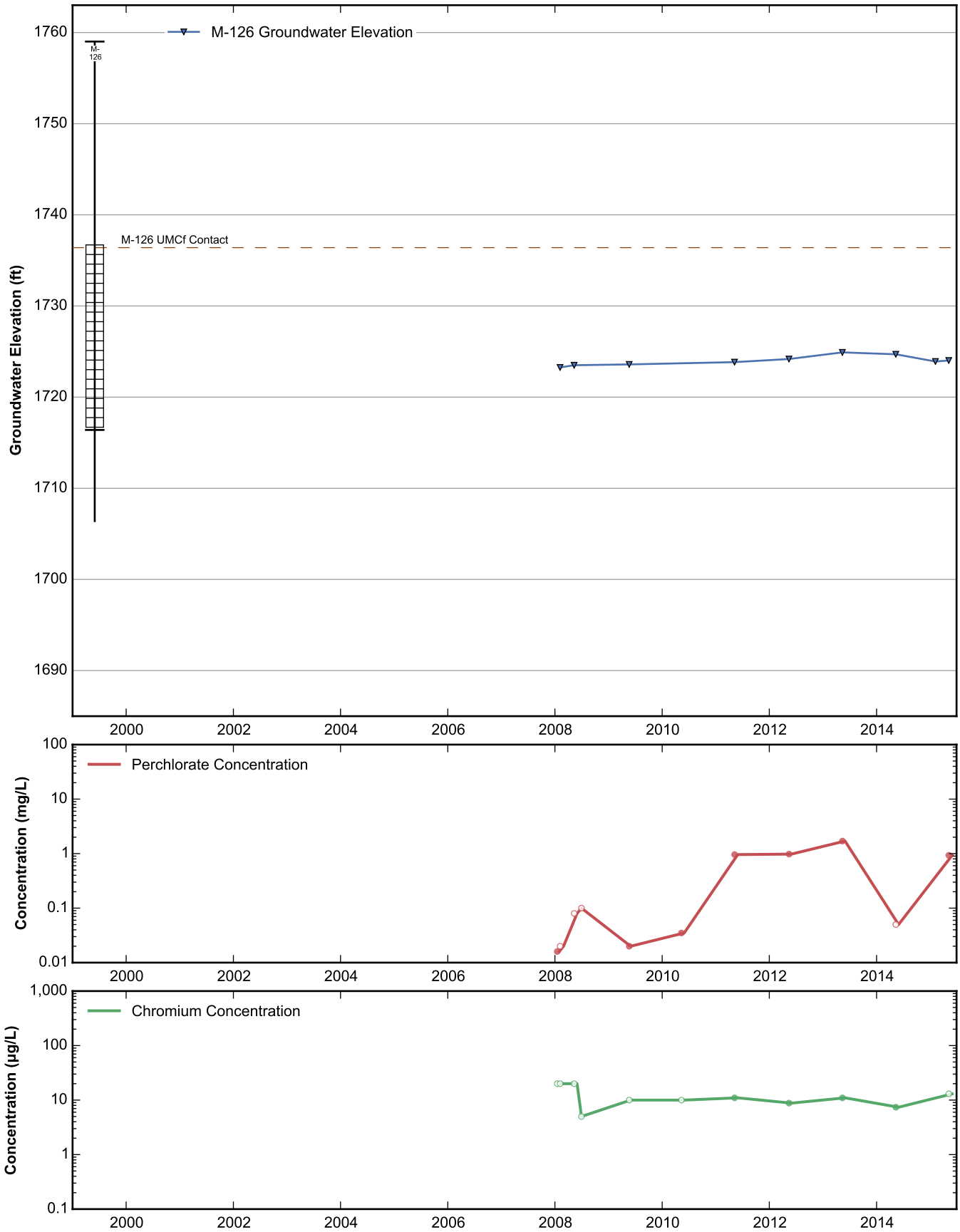


RAMBOLL ENVIRON

Data Sheet for Well M-125
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

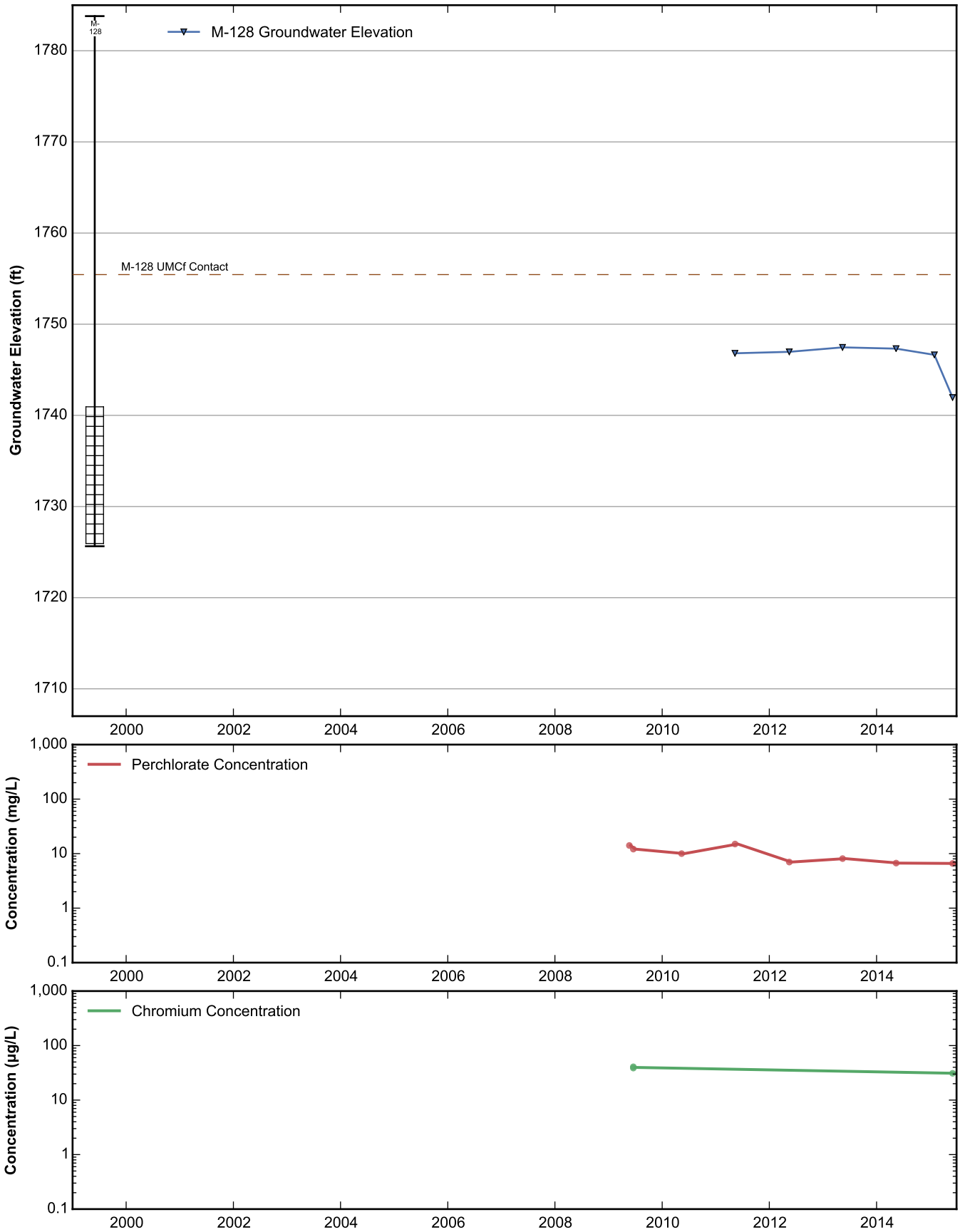


RAMBOLL ENVIRON

Data Sheet for Well M-126
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

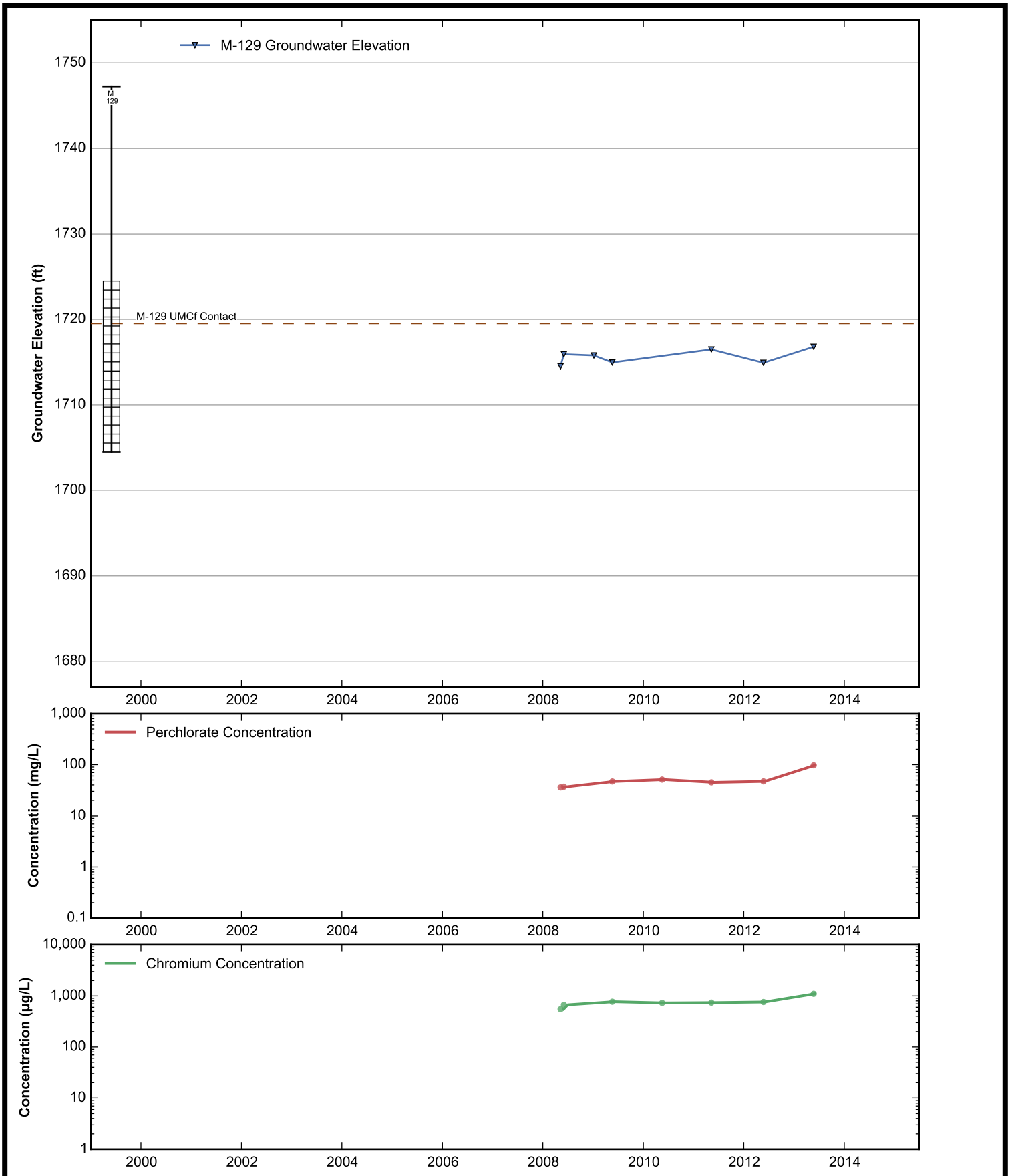


RAMBOLL ENVIRON

Data Sheet for Well M-128
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

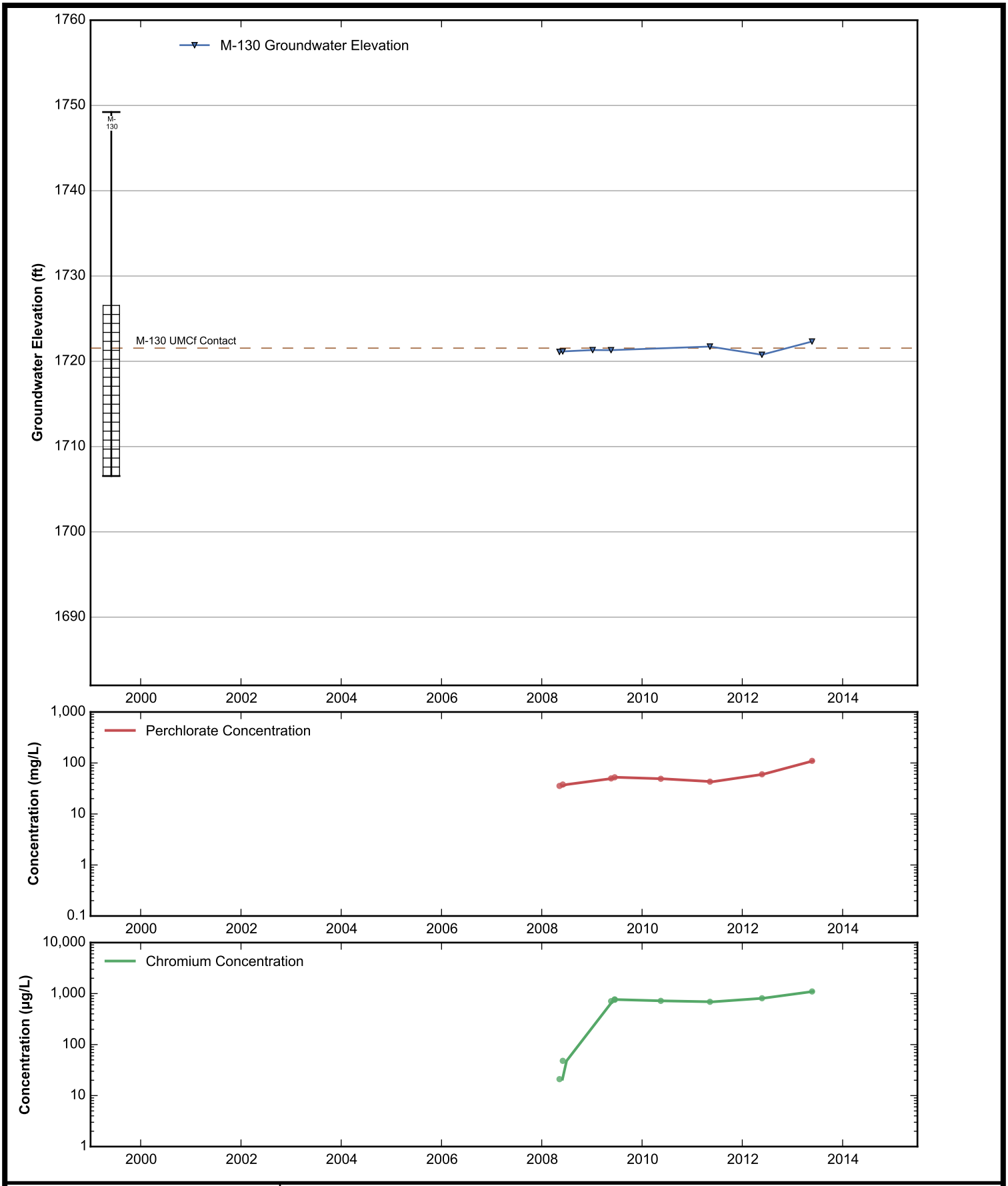


RAMBOLL ENVIRON

Data Sheet for Well M-129
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

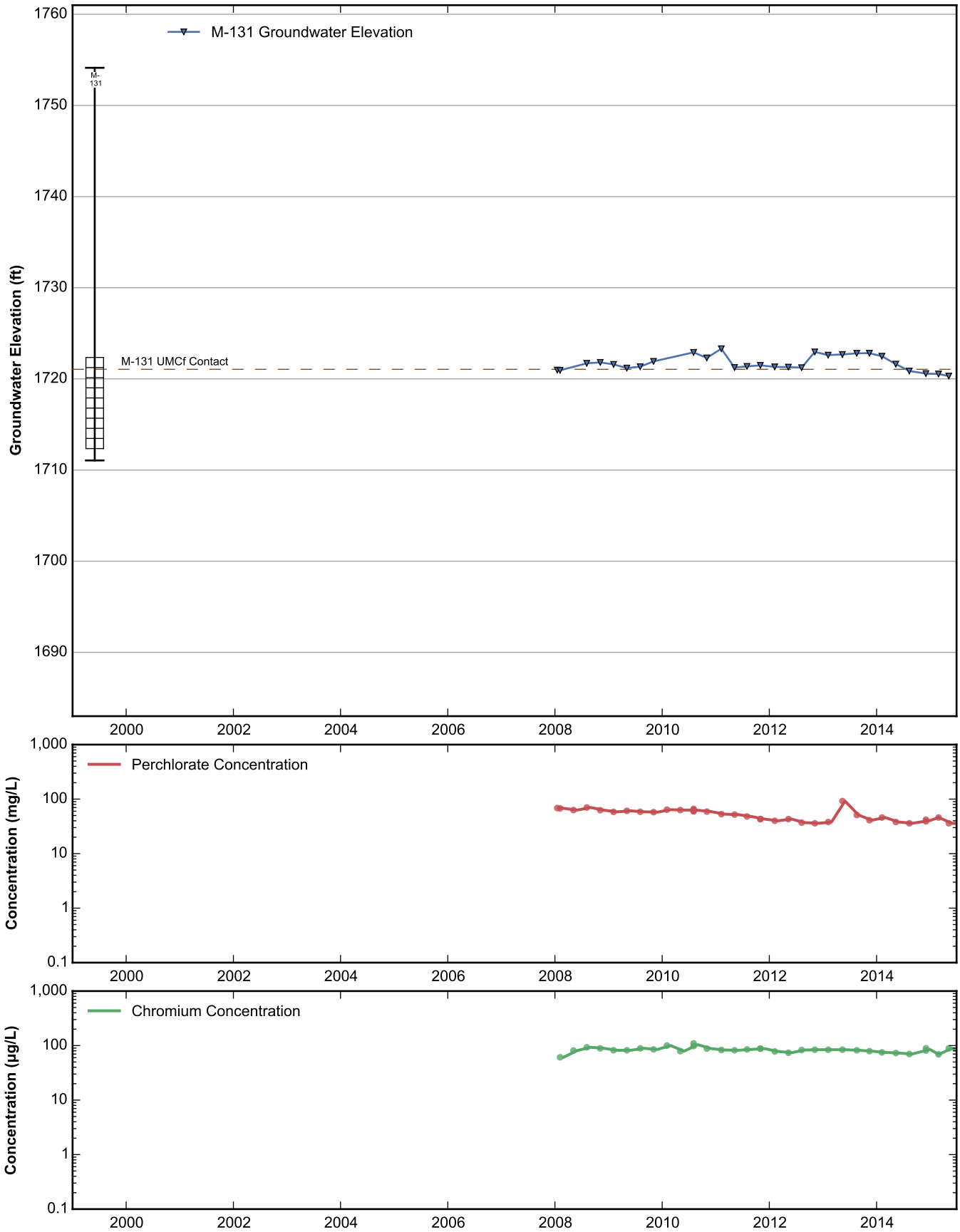


RAMBOLL ENVIRON

Data Sheet for Well M-130
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

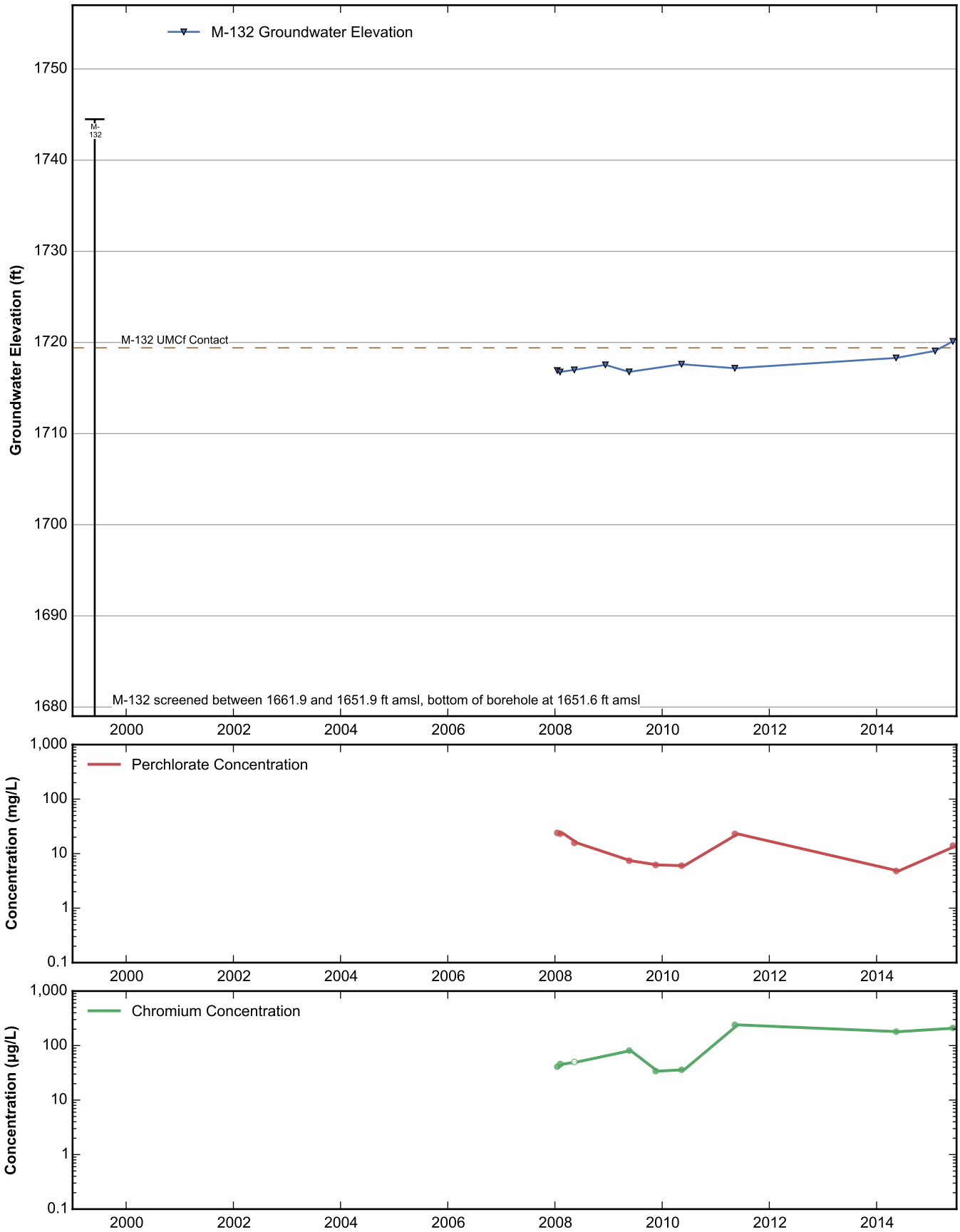


RAMBOLL ENVIRON

Data Sheet for Well M-131
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

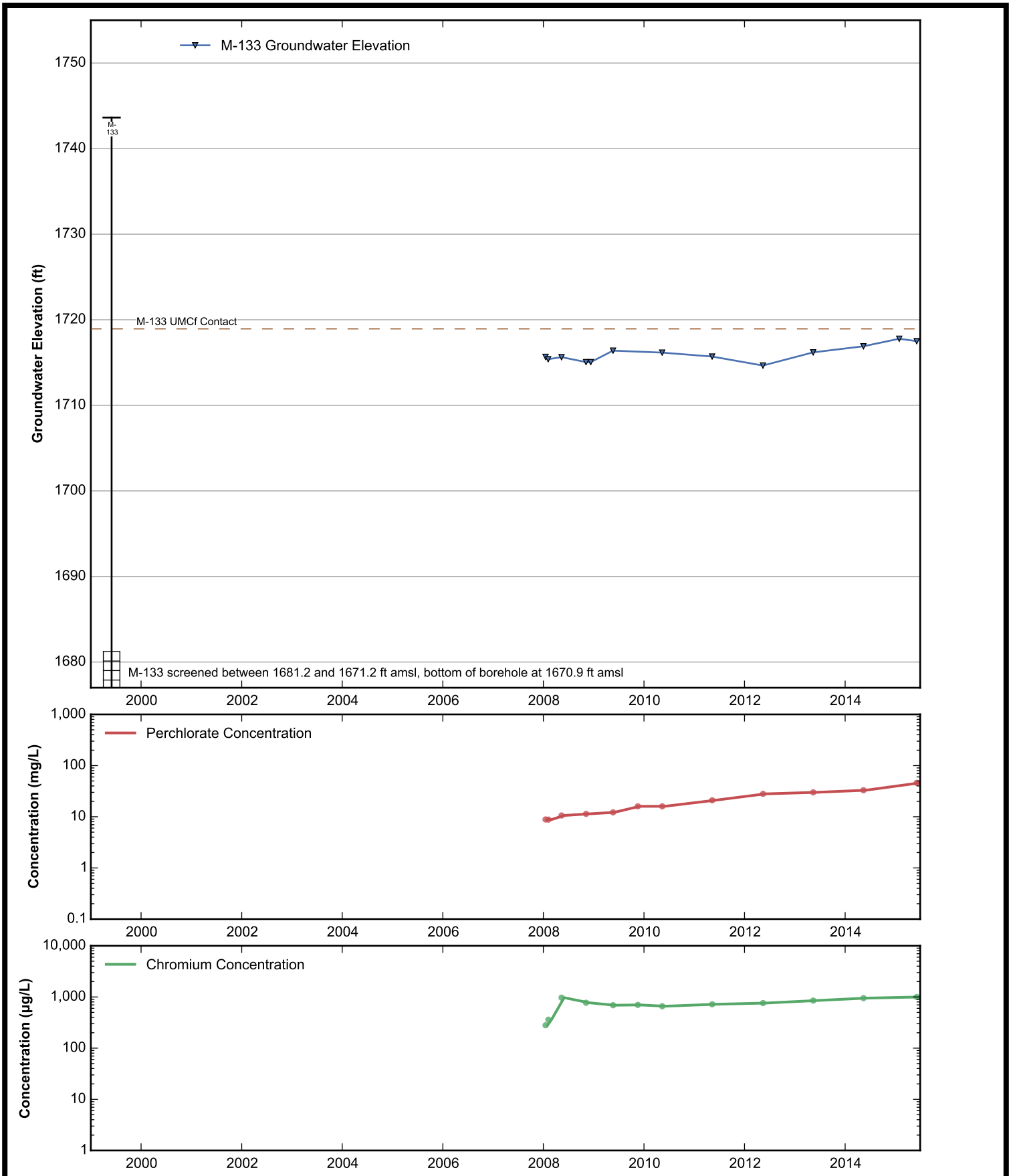


RAMBOLL ENVIRON

Data Sheet for Well M-132
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

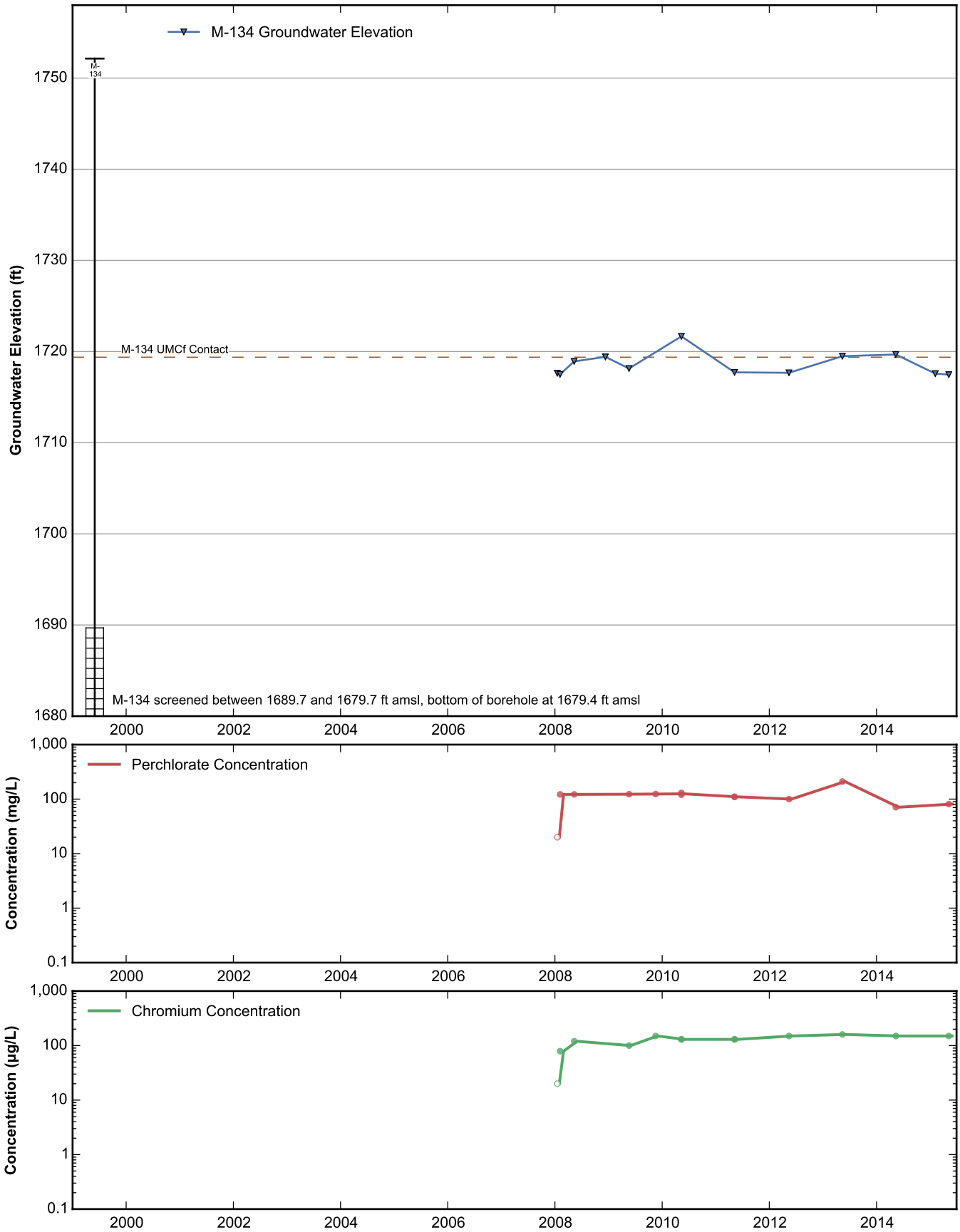


RAMBOLL ENVIRON

Data Sheet for Well M-133
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

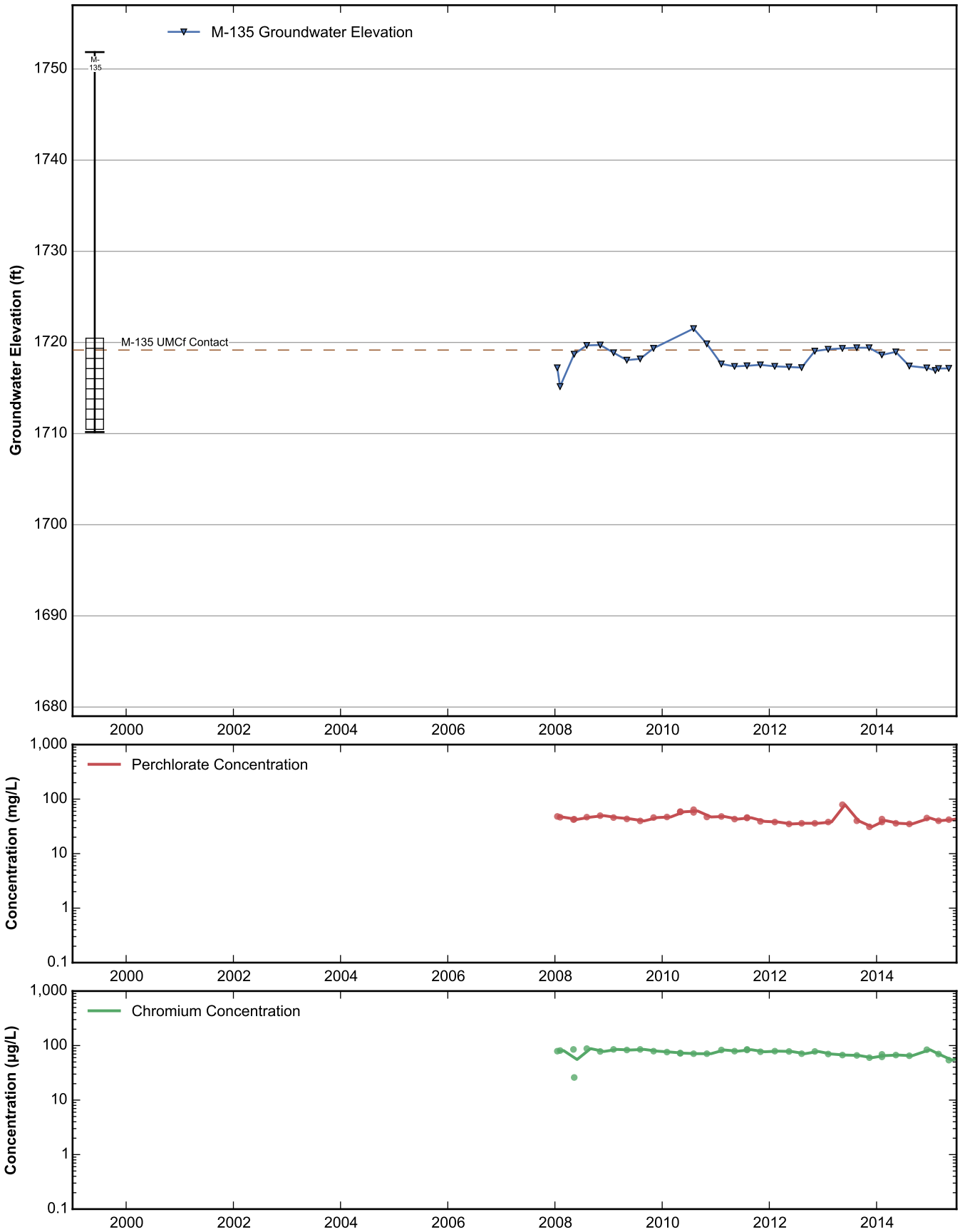


RAMBOLL ENVIRON

Data Sheet for Well M-134
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

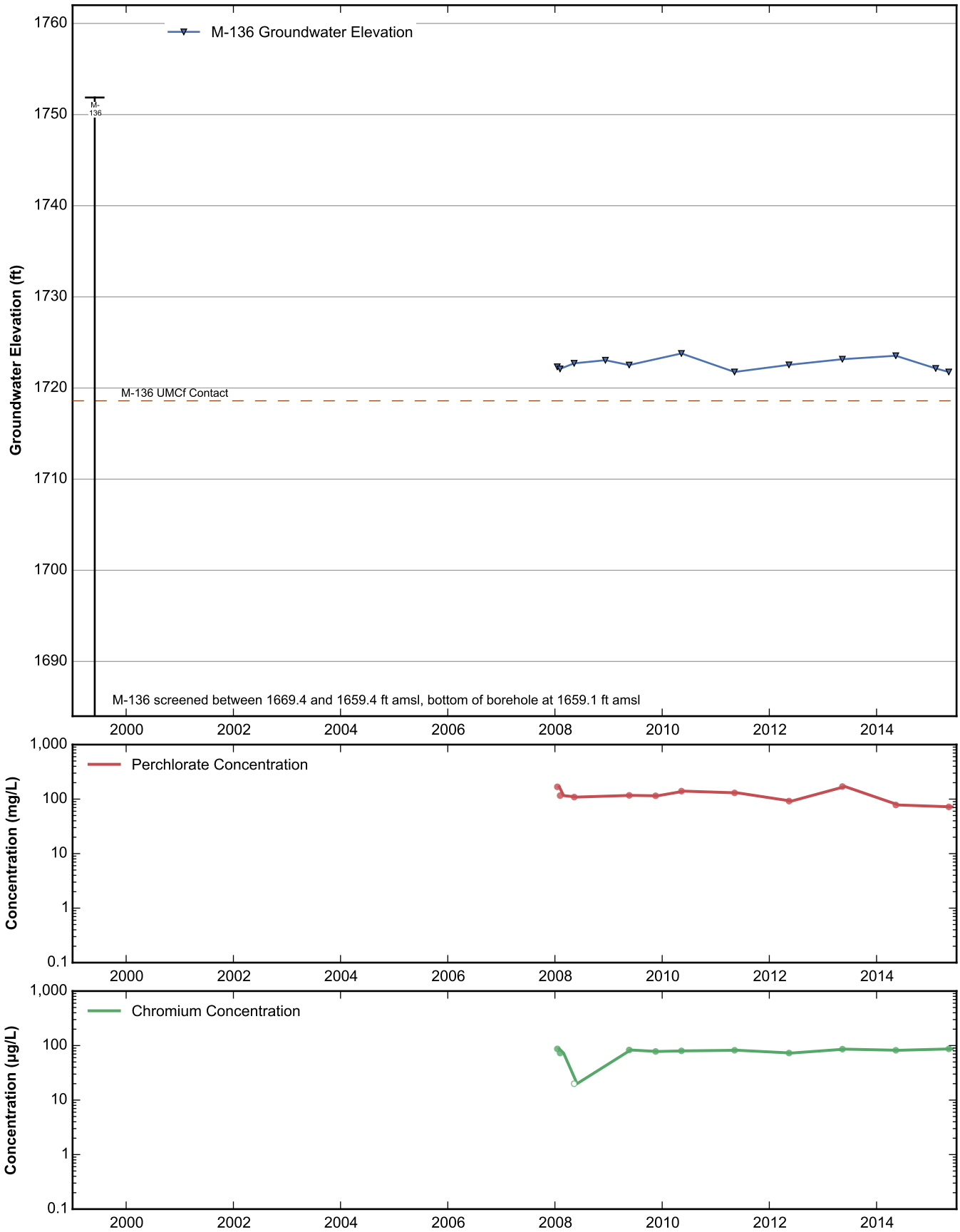


RAMBOLL ENVIRON

Data Sheet for Well M-135
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

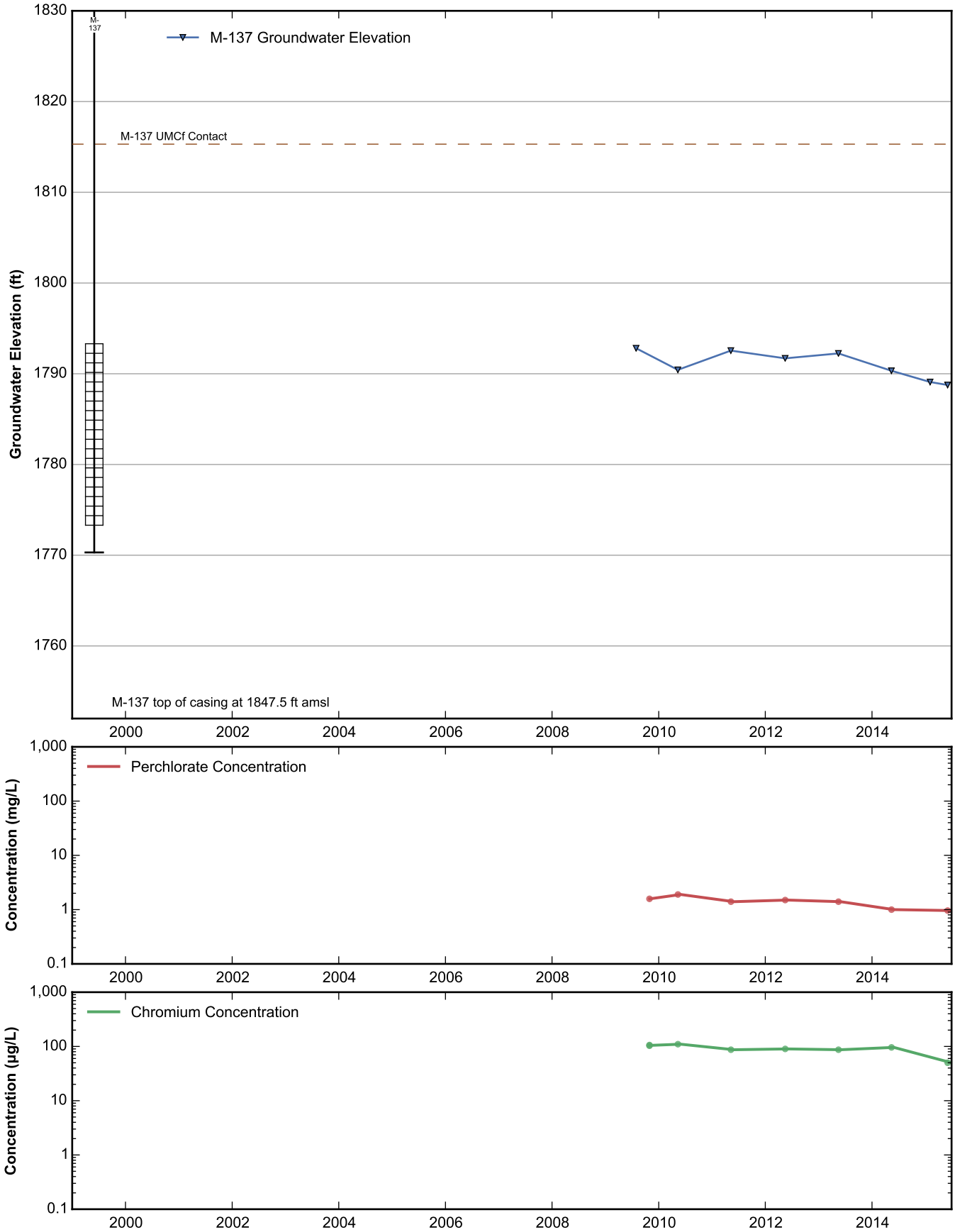


RAMBOLL ENVIRON

Data Sheet for Well M-136
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

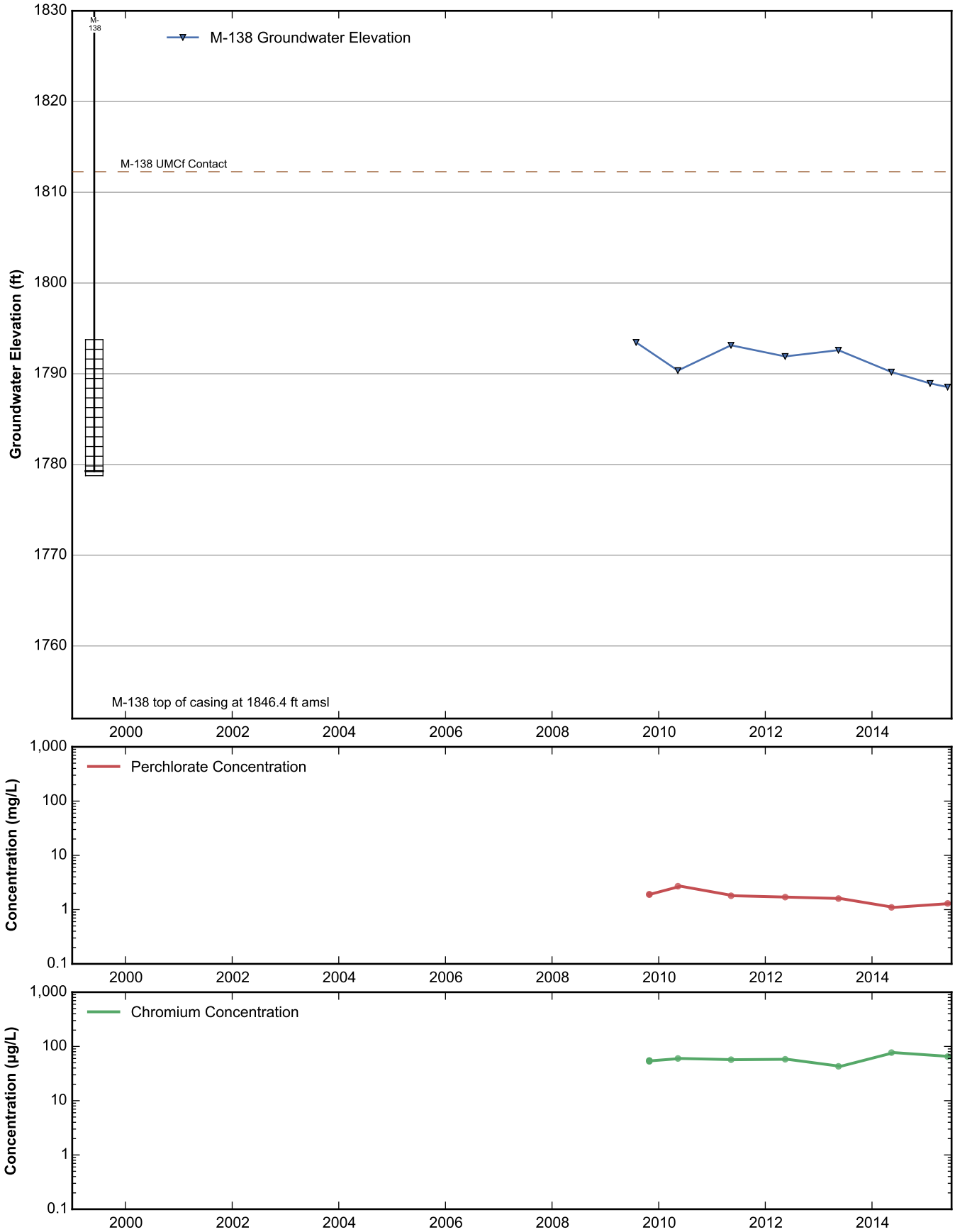


RAMBOLL ENVIRON

Data Sheet for Well M-137
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

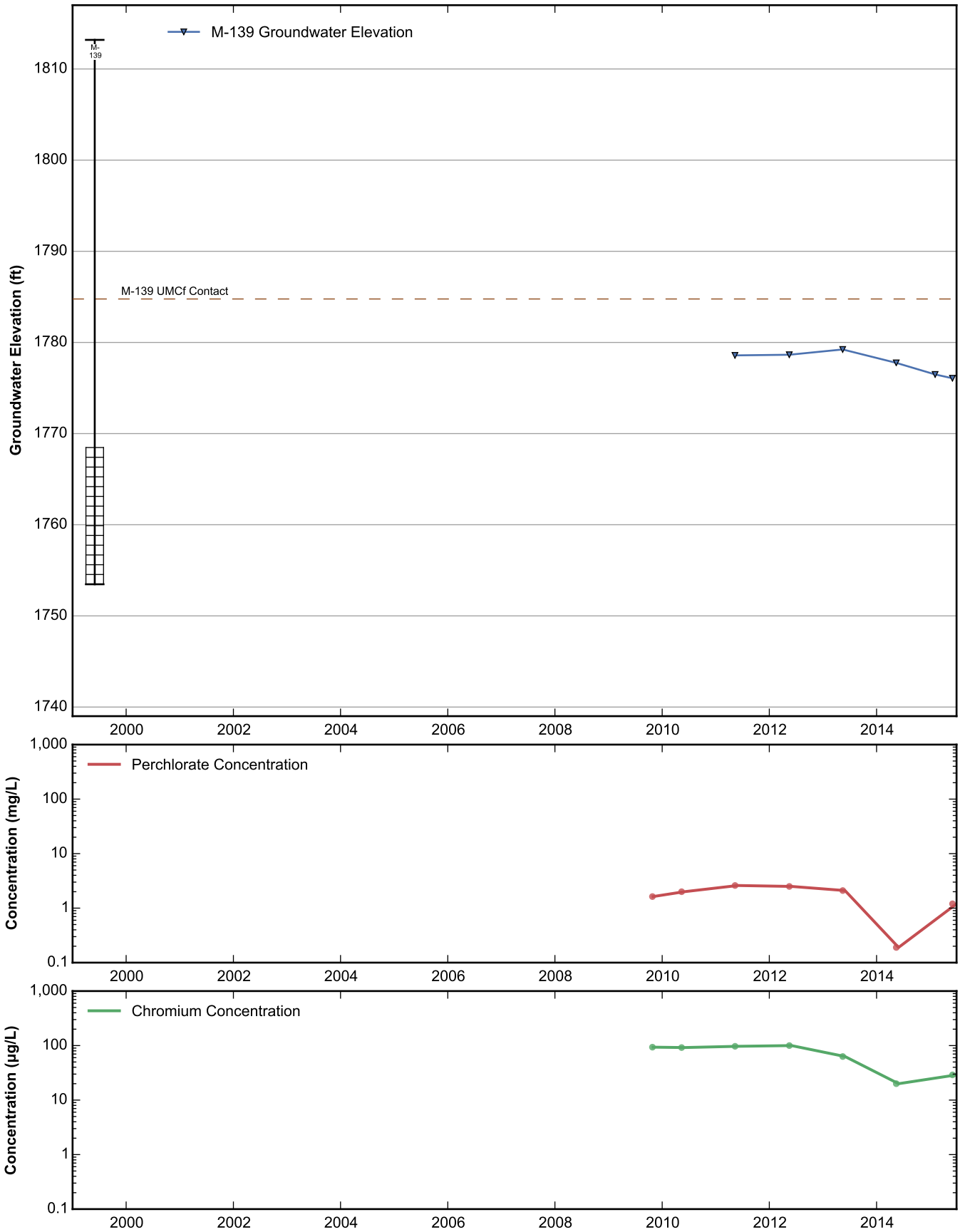


RAMBOLL ENVIRON

Data Sheet for Well M-138
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

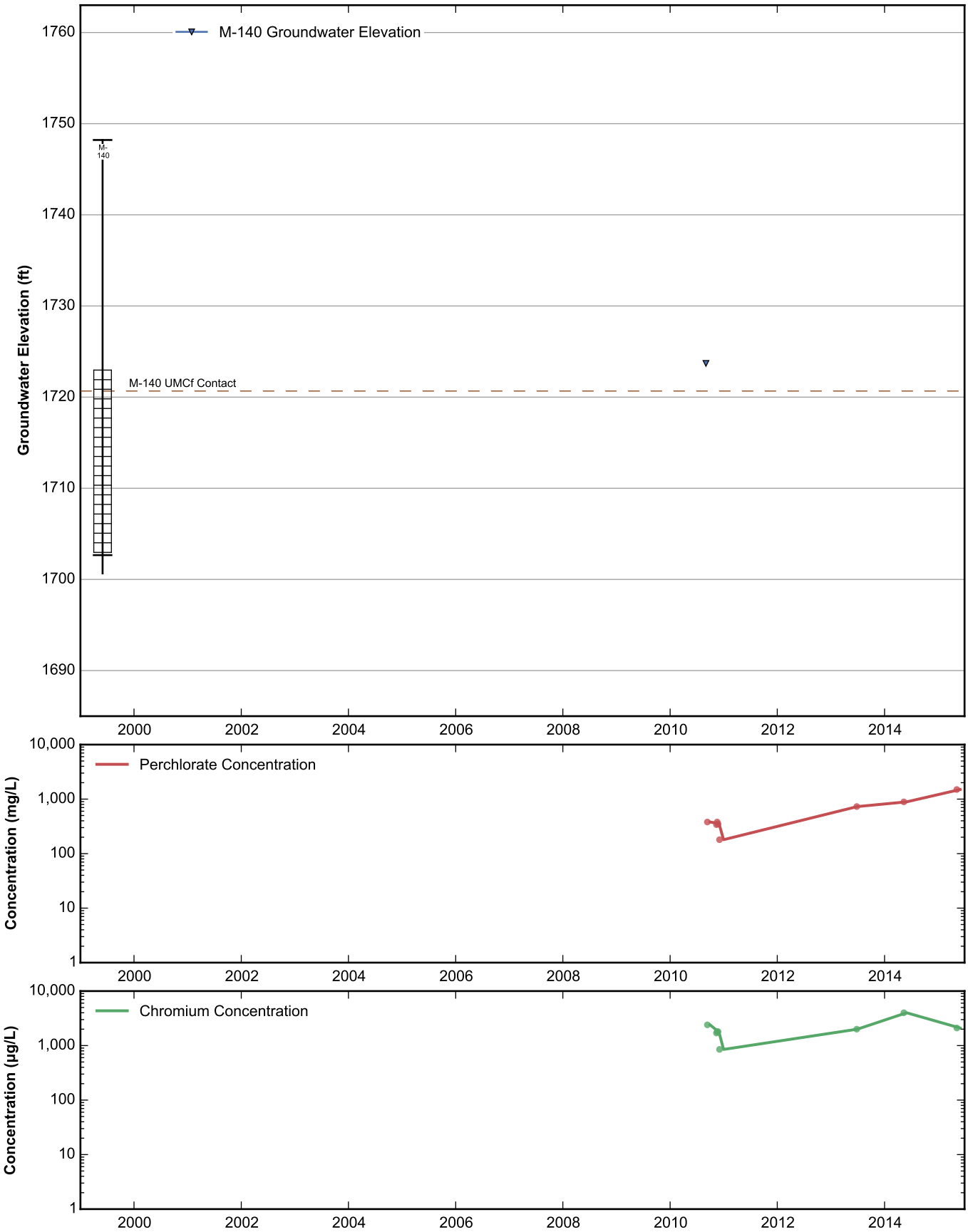


RAMBOLL ENVIRON

Data Sheet for Well M-139
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

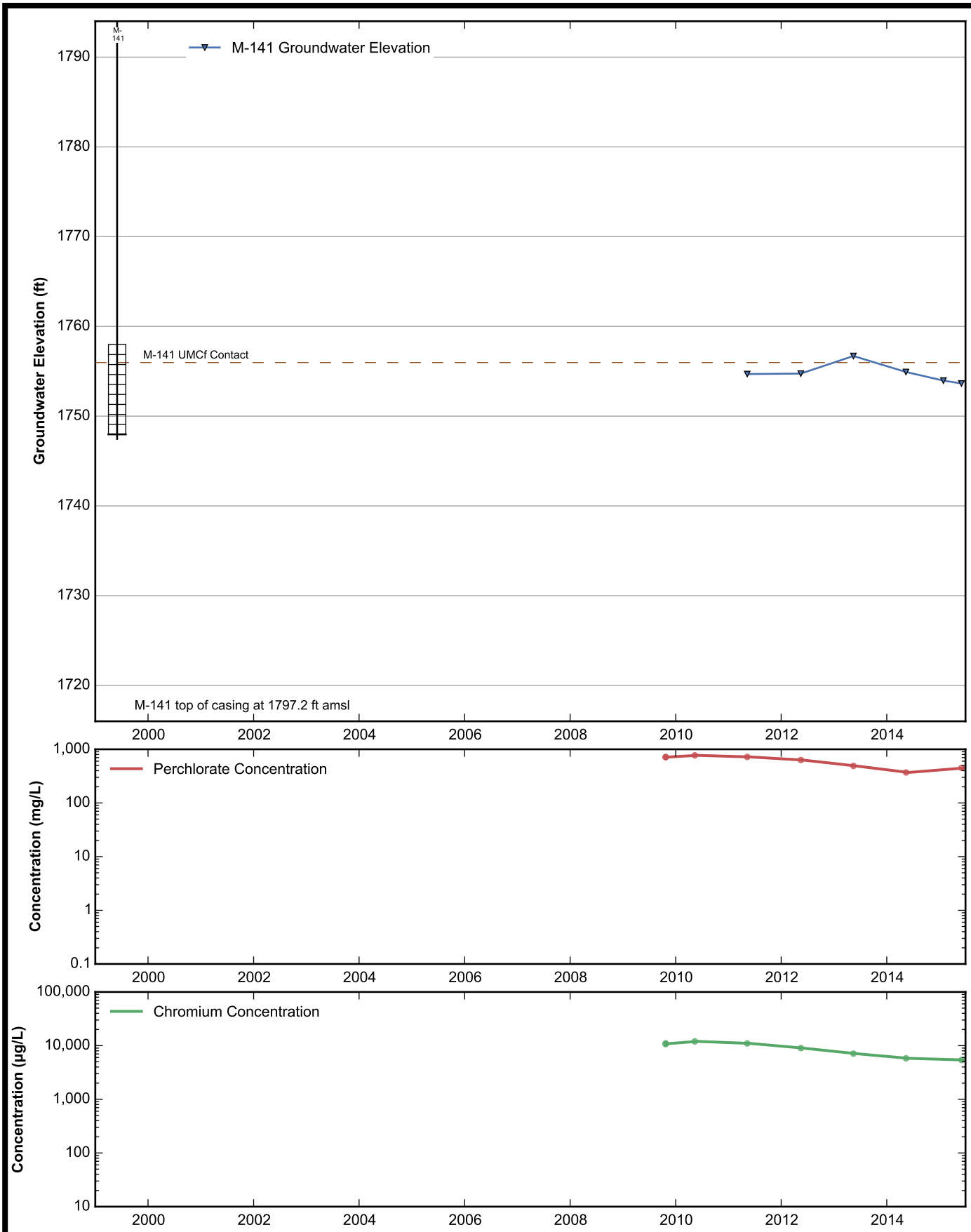


RAMBOLL ENVIRON

Data Sheet for Well M-140
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

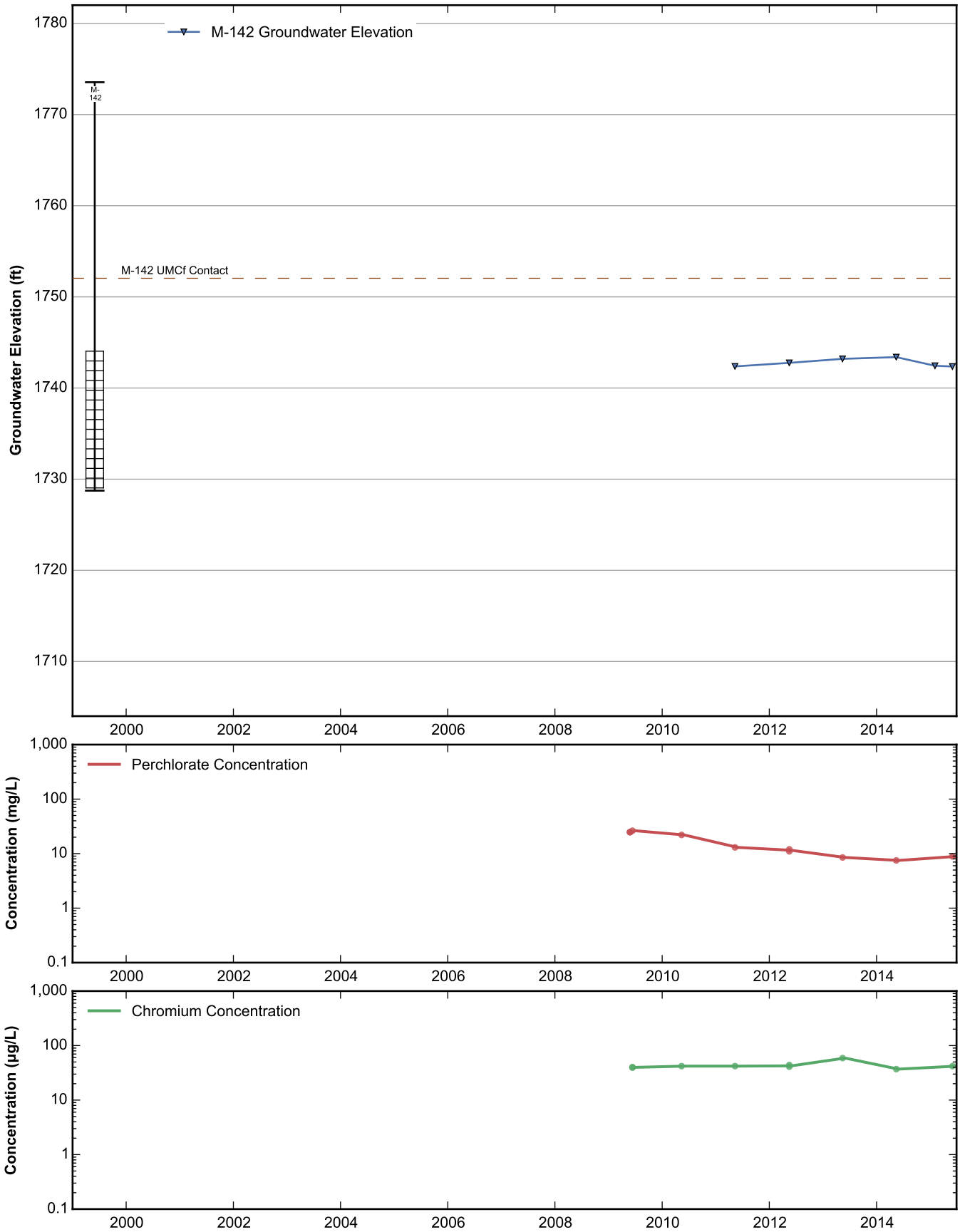


RAMBOLL ENVIRON

Data Sheet for Well M-141
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

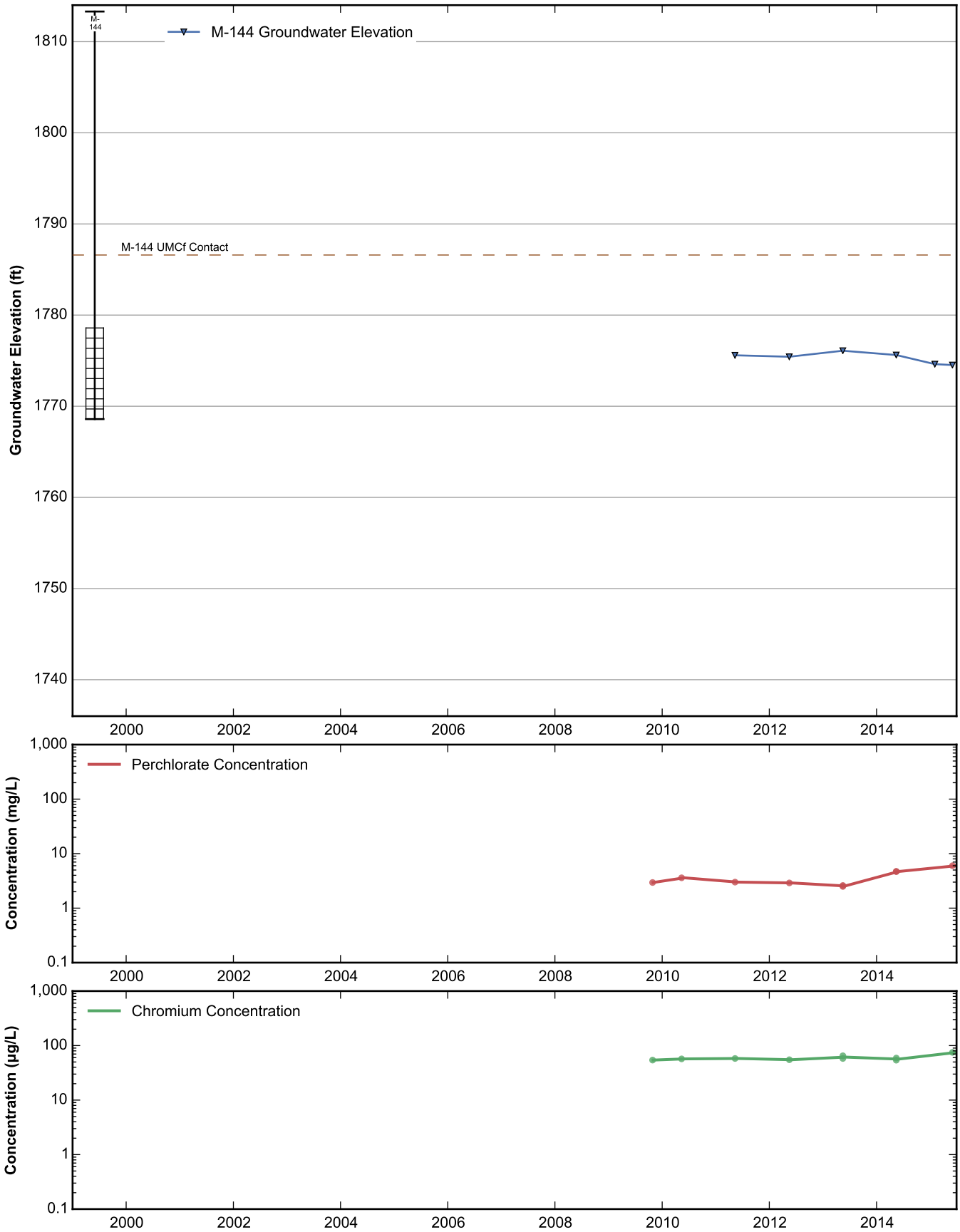


RAMBOLL ENVIRON

Data Sheet for Well M-142
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

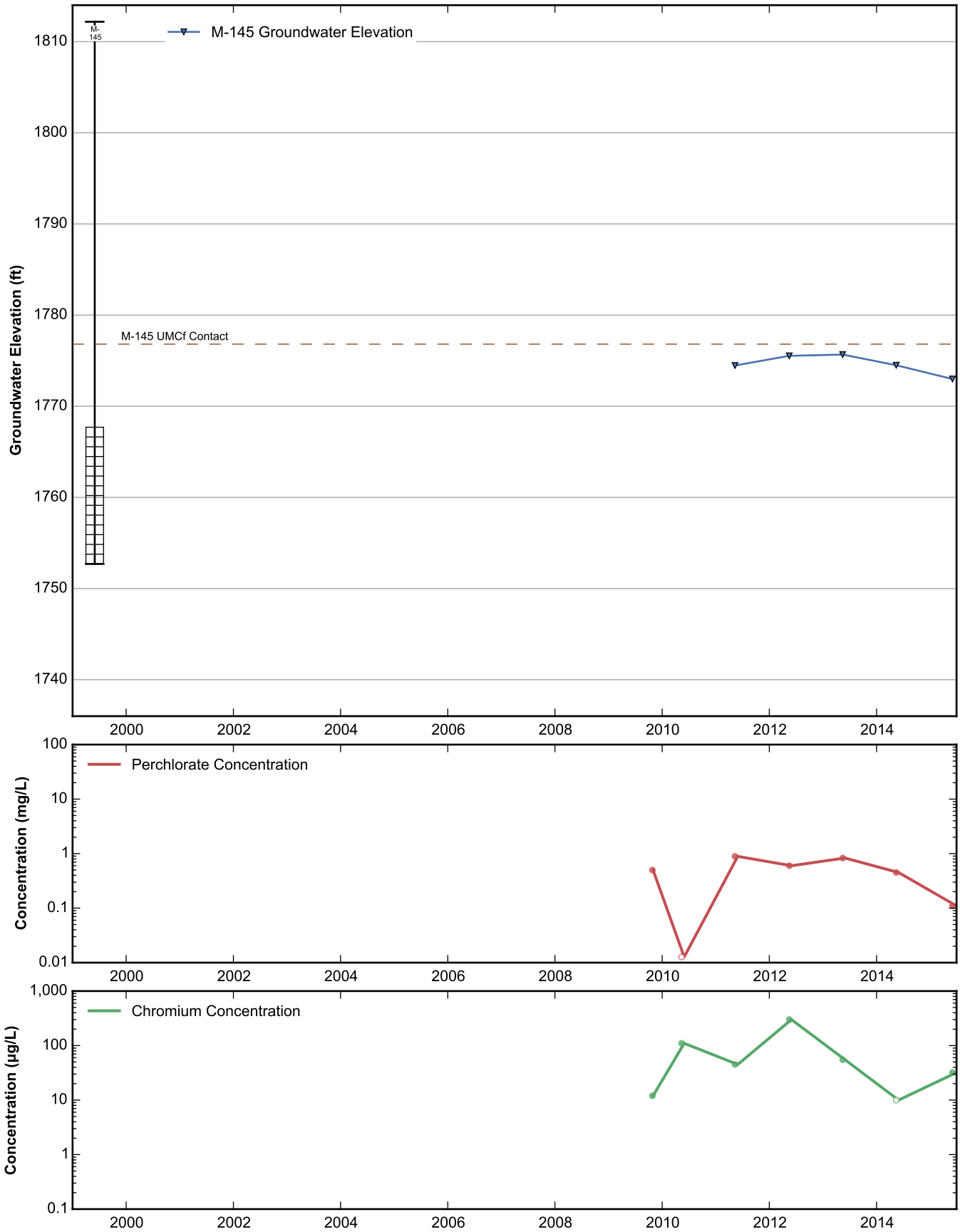


RAMBOLL ENVIRON

Data Sheet for Well M-144
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

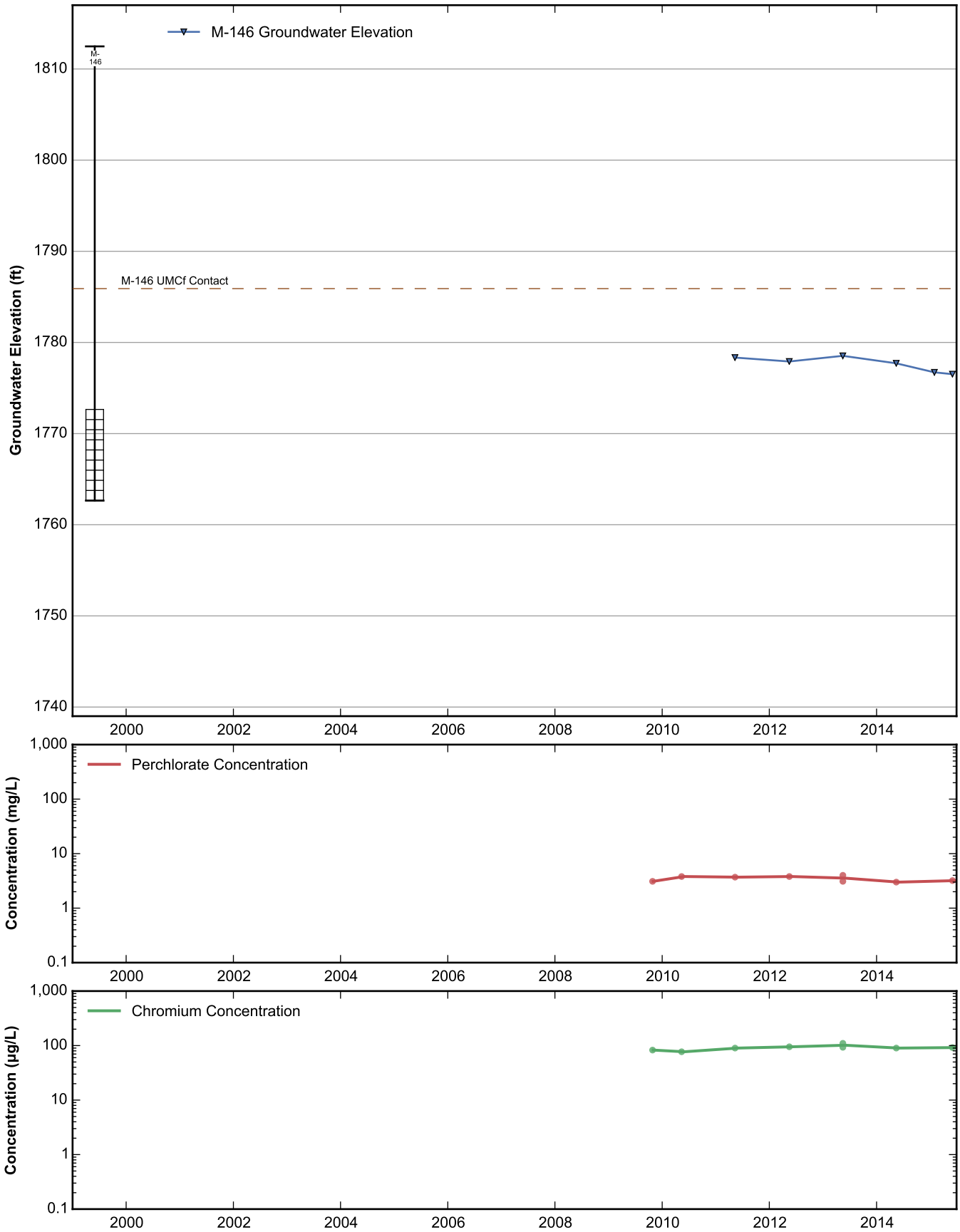


RAMBOLL ENVIRON

Data Sheet for Well M-145
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

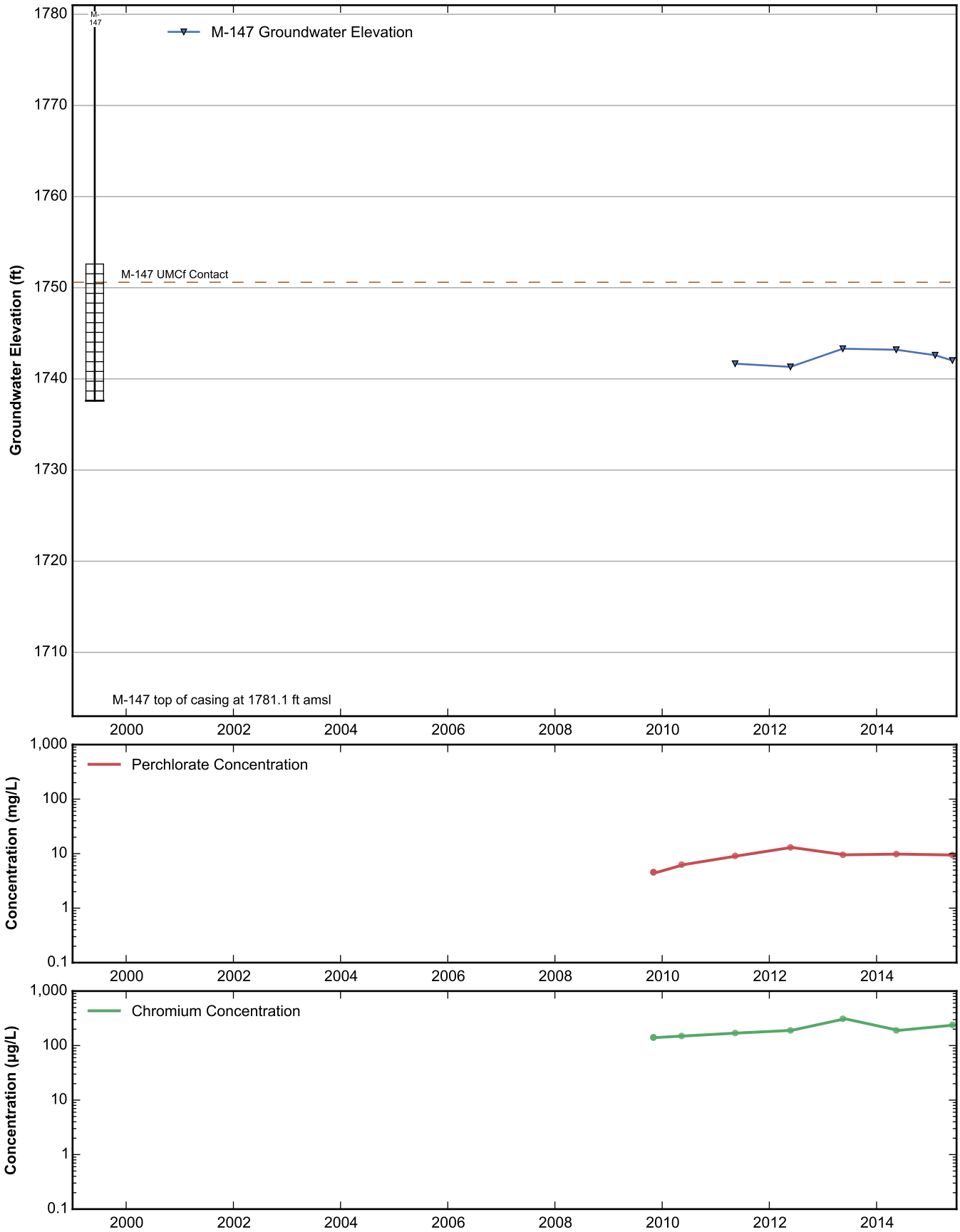


RAMBOLL ENVIRON

Data Sheet for Well M-146
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

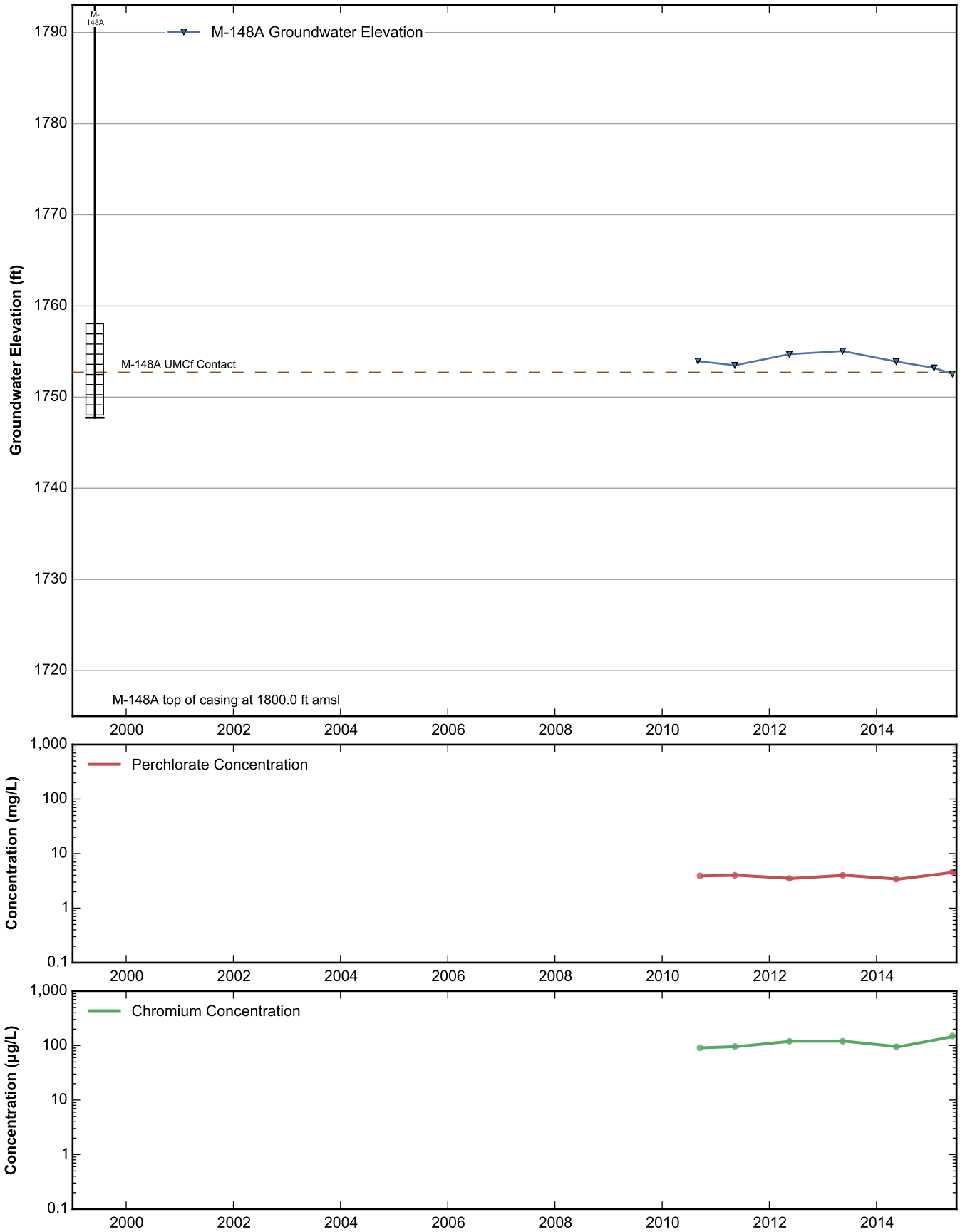


RAMBOLL ENVIRON

Data Sheet for Well M-147
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

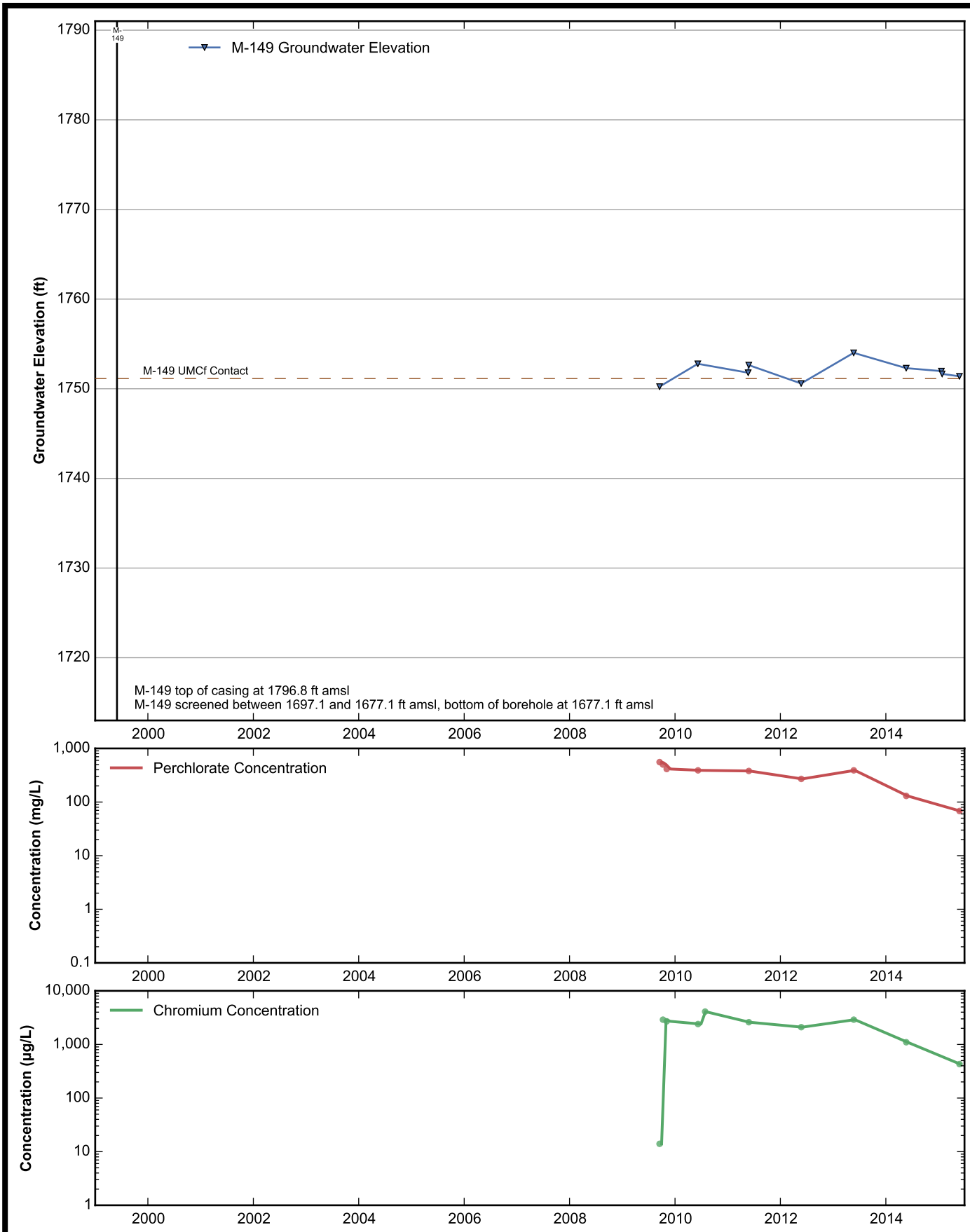


RAMBOLL ENVIRON

Data Sheet for Well M-148A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

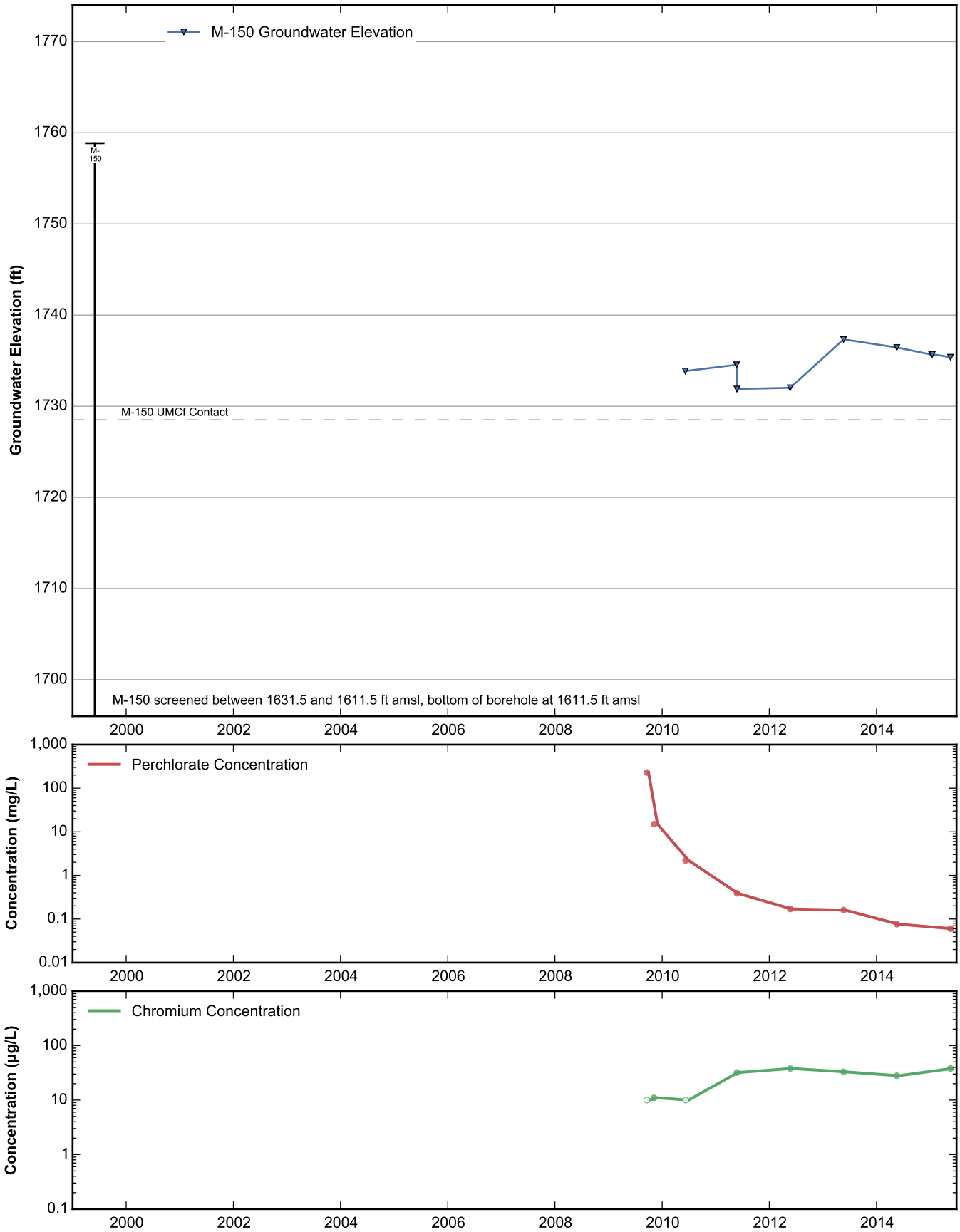


RAMBOLL ENVIRON

Data Sheet for Well M-149
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

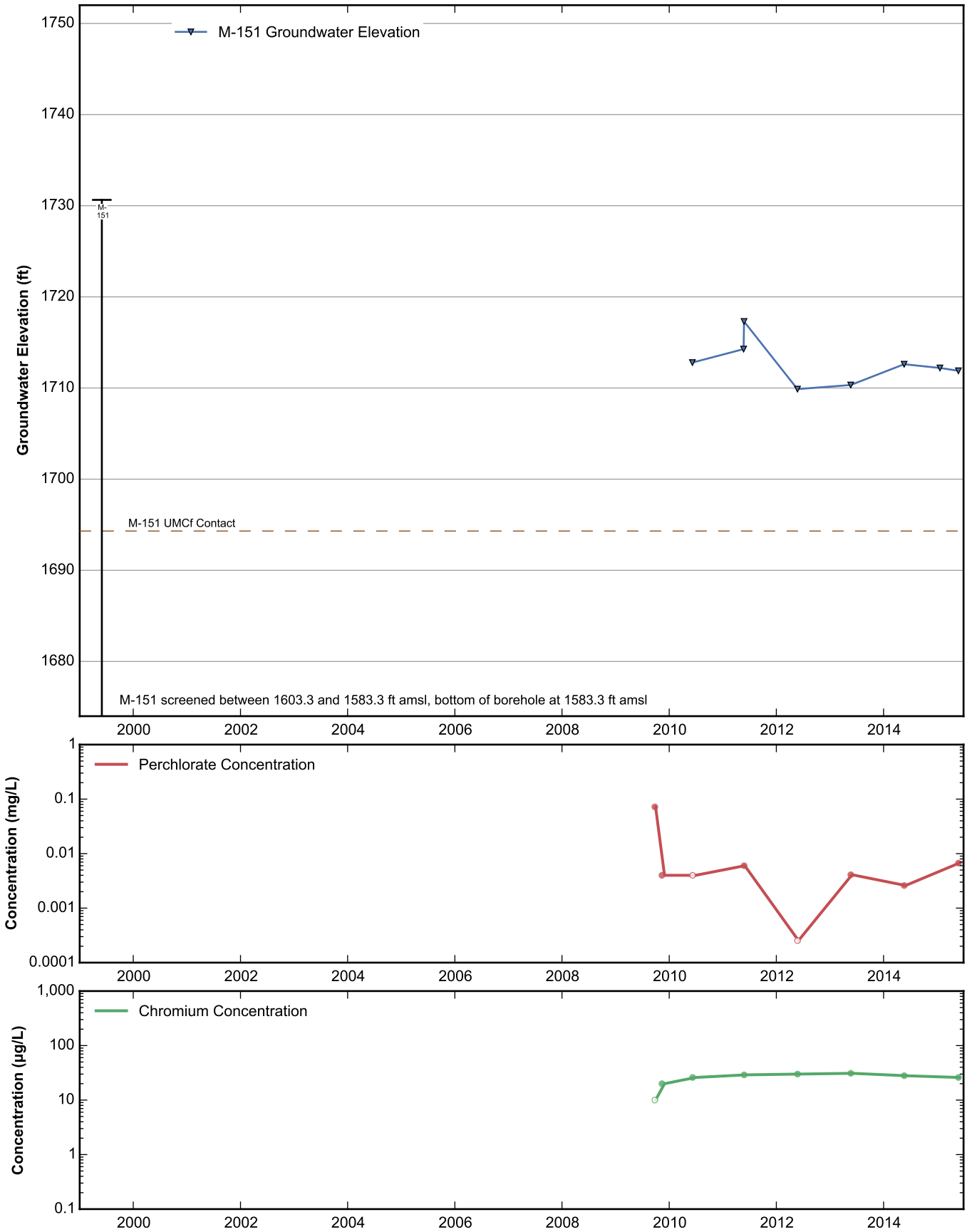
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well M-150
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

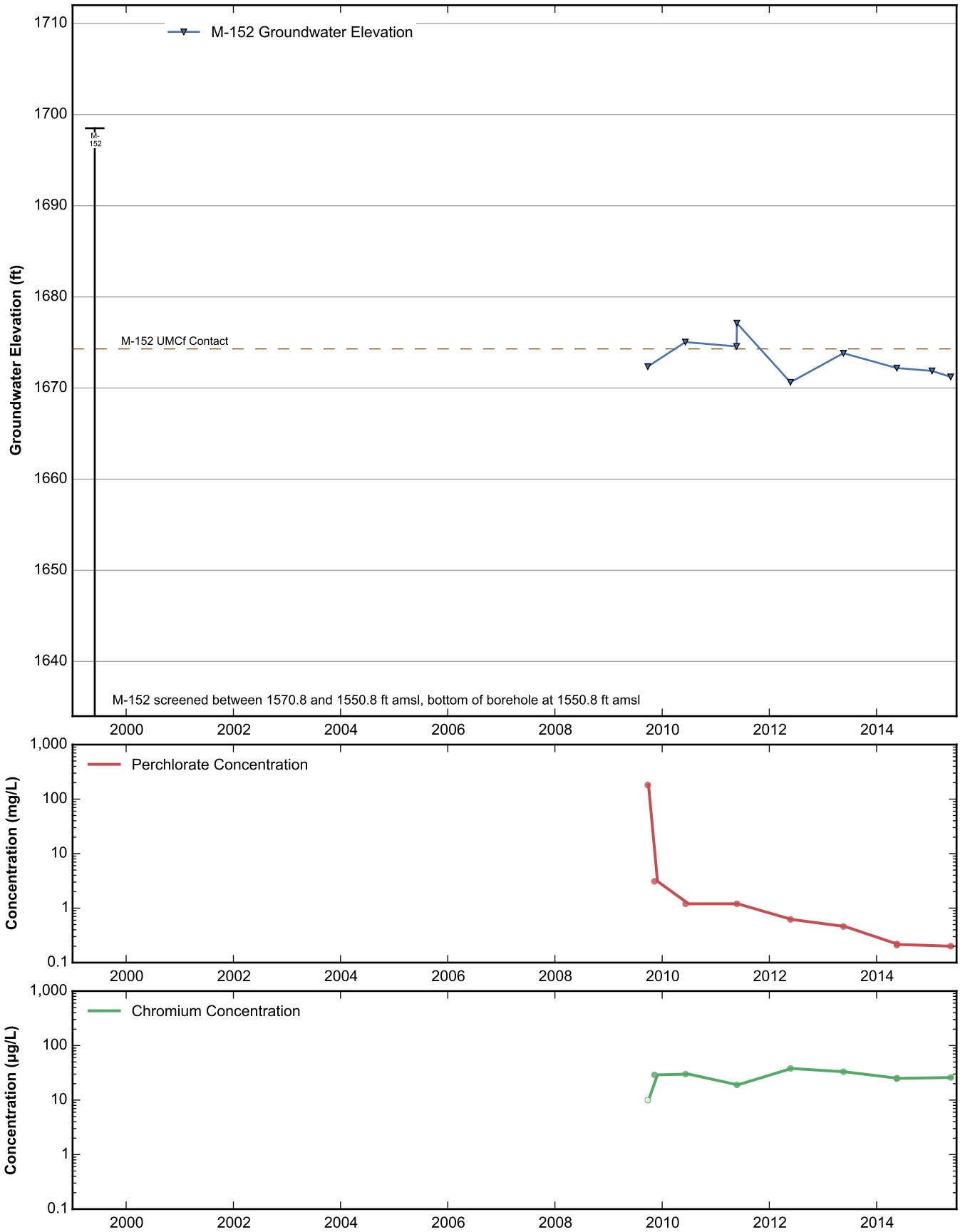


RAMBOLL ENVIRON

Data Sheet for Well M-151
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

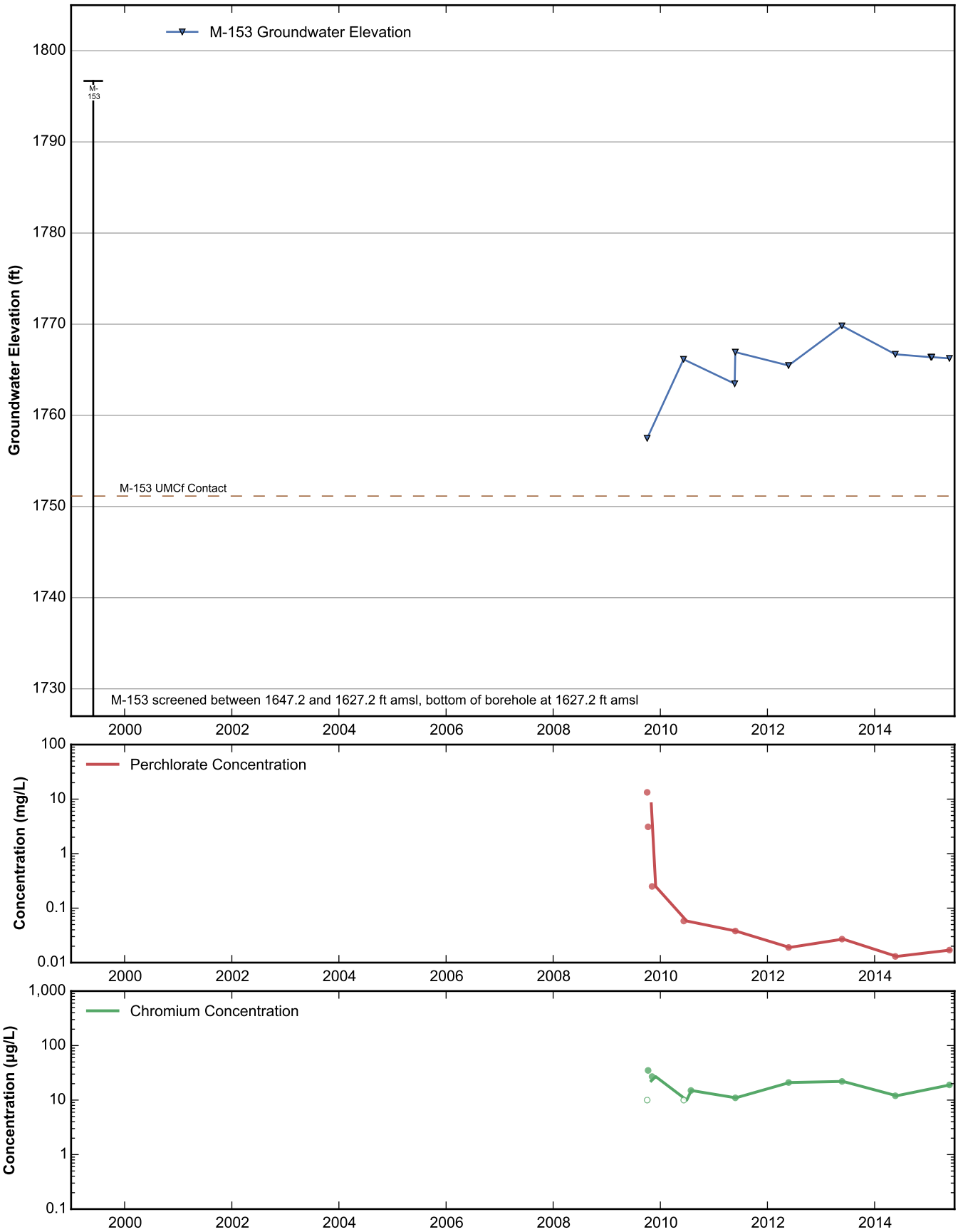


RAMBOLL ENVIRON

Data Sheet for Well M-152
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

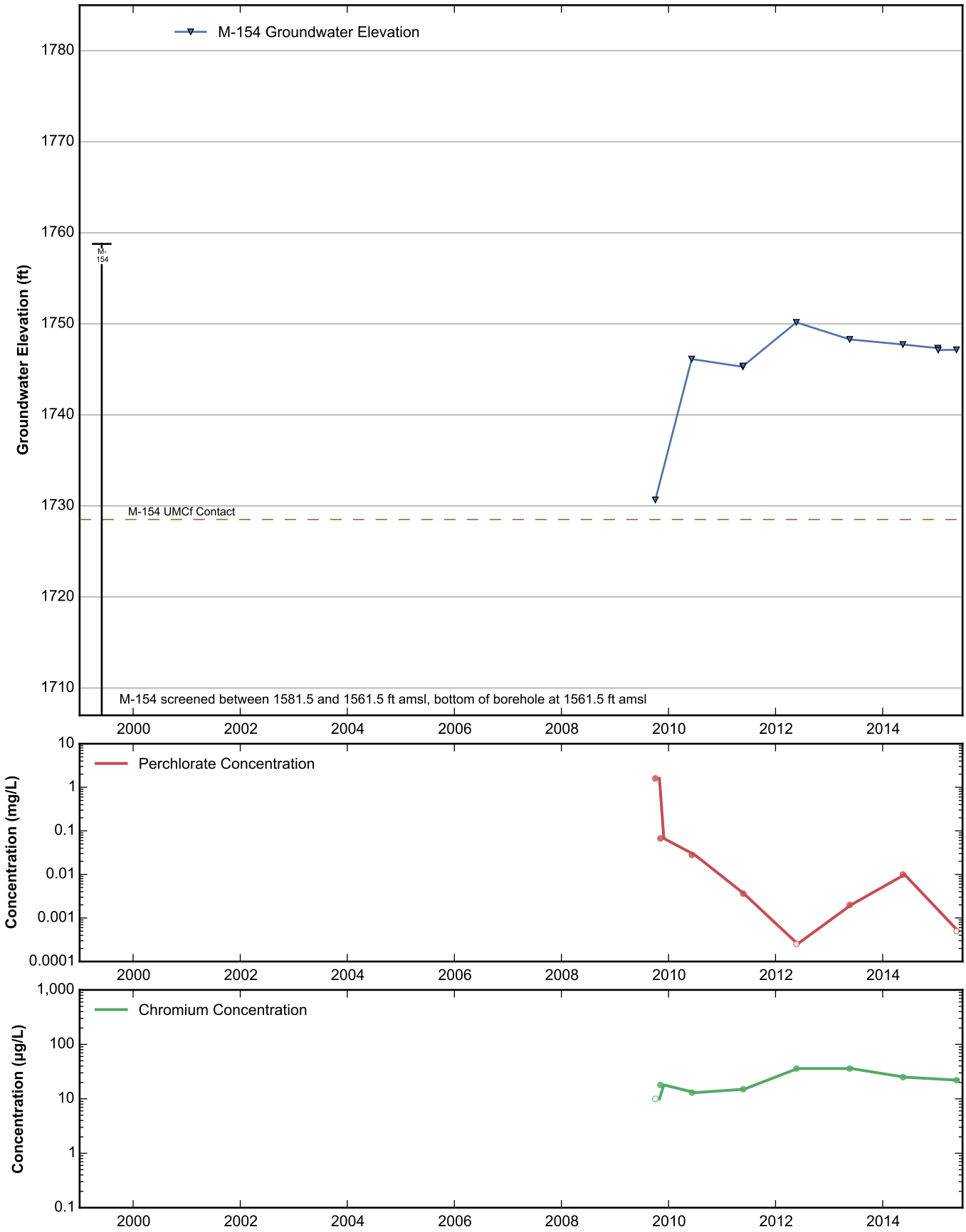


RAMBOLL ENVIRON

Data Sheet for Well M-153
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

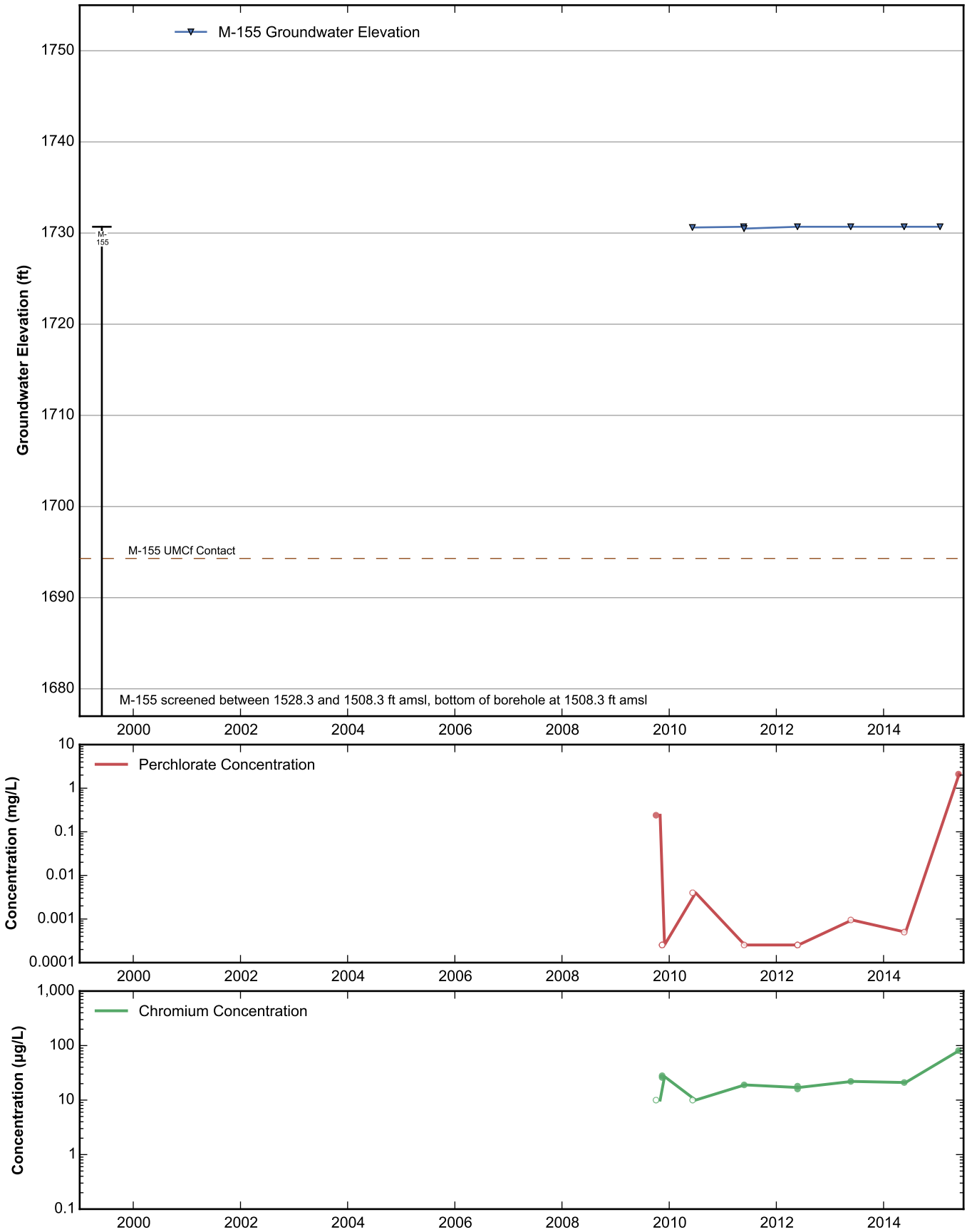
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well M-154
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

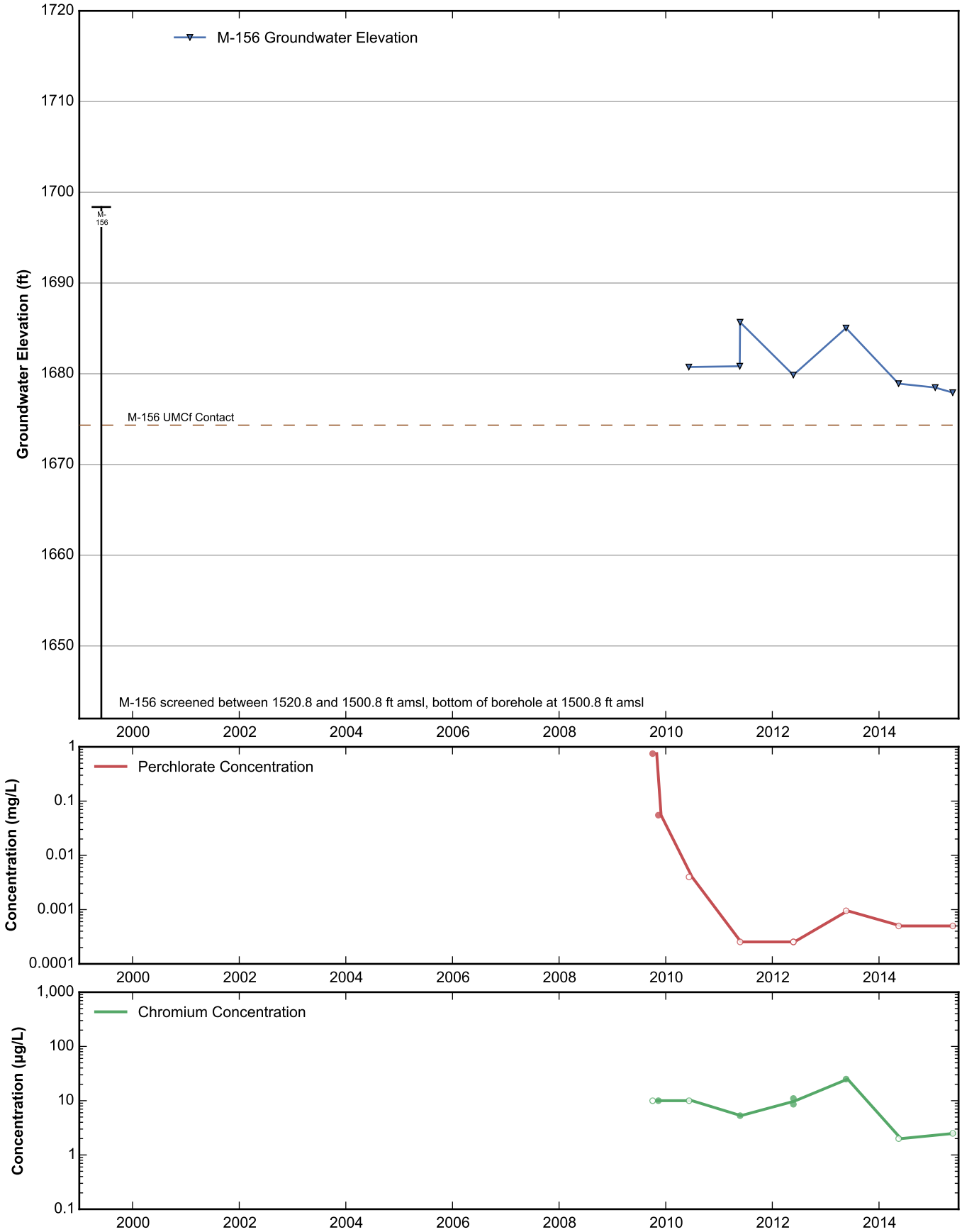


RAMBOLL ENVIRON

Data Sheet for Well M-155
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

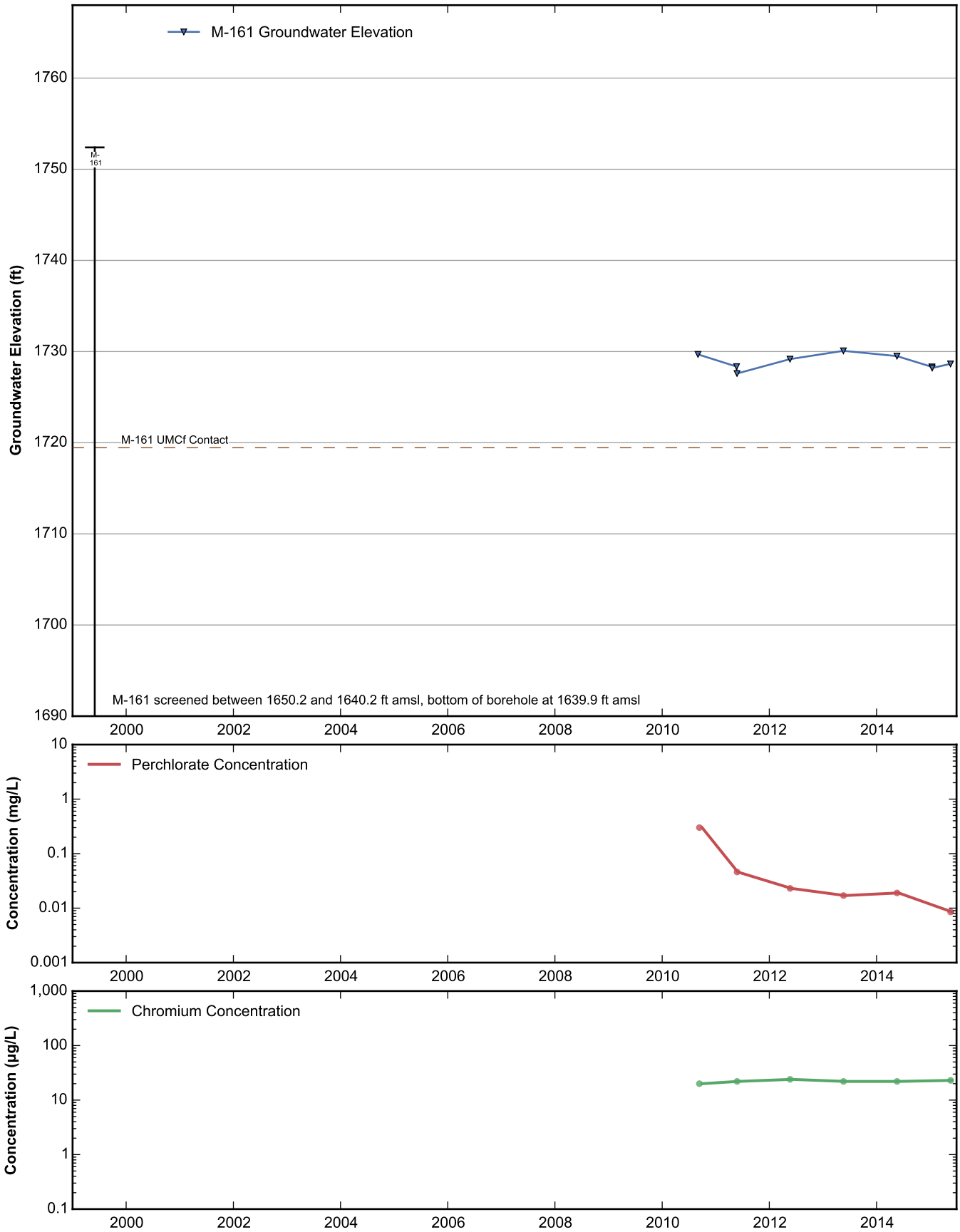


RAMBOLL ENVIRON

Data Sheet for Well M-156
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

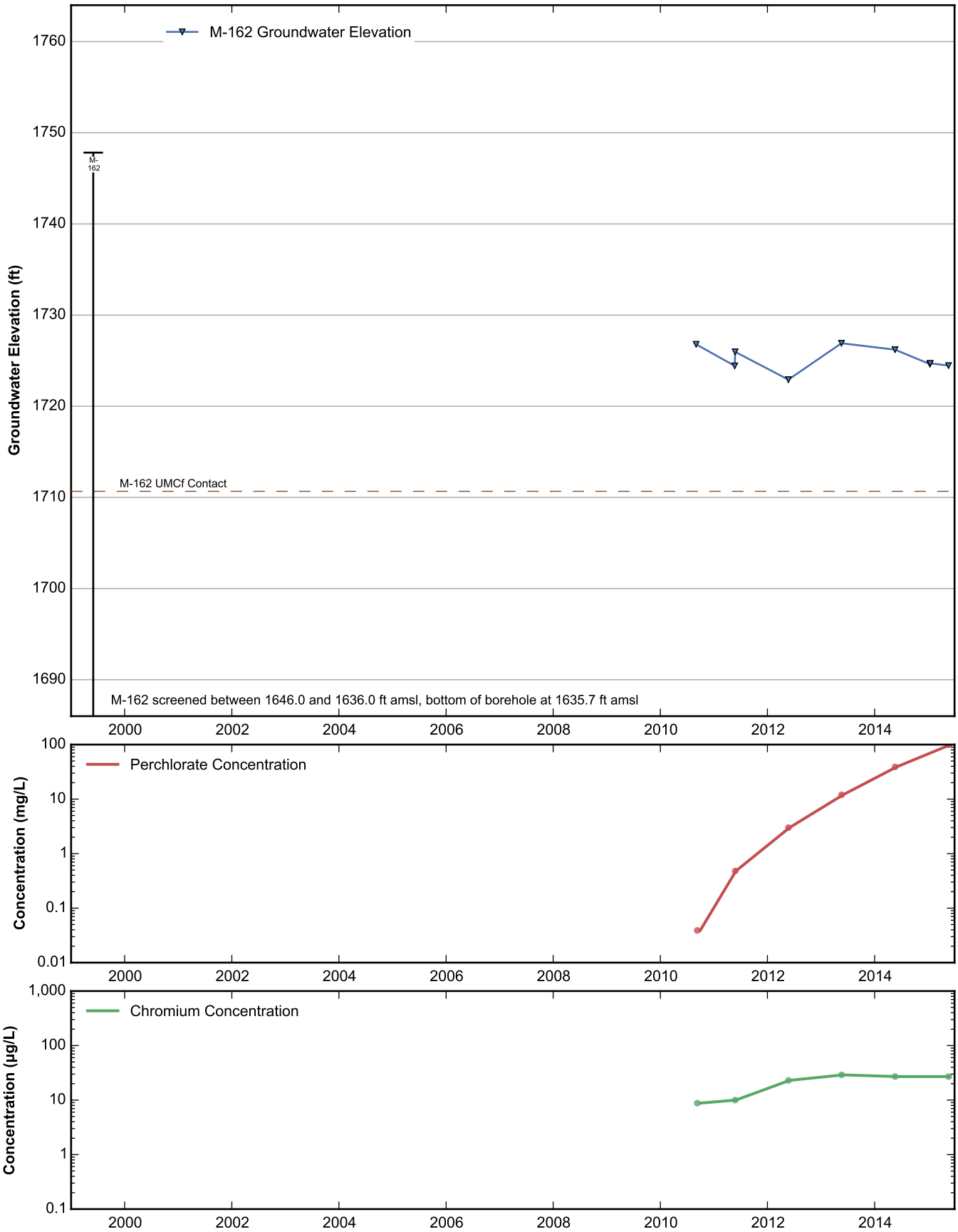


RAMBOLL ENVIRON

Data Sheet for Well M-161
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

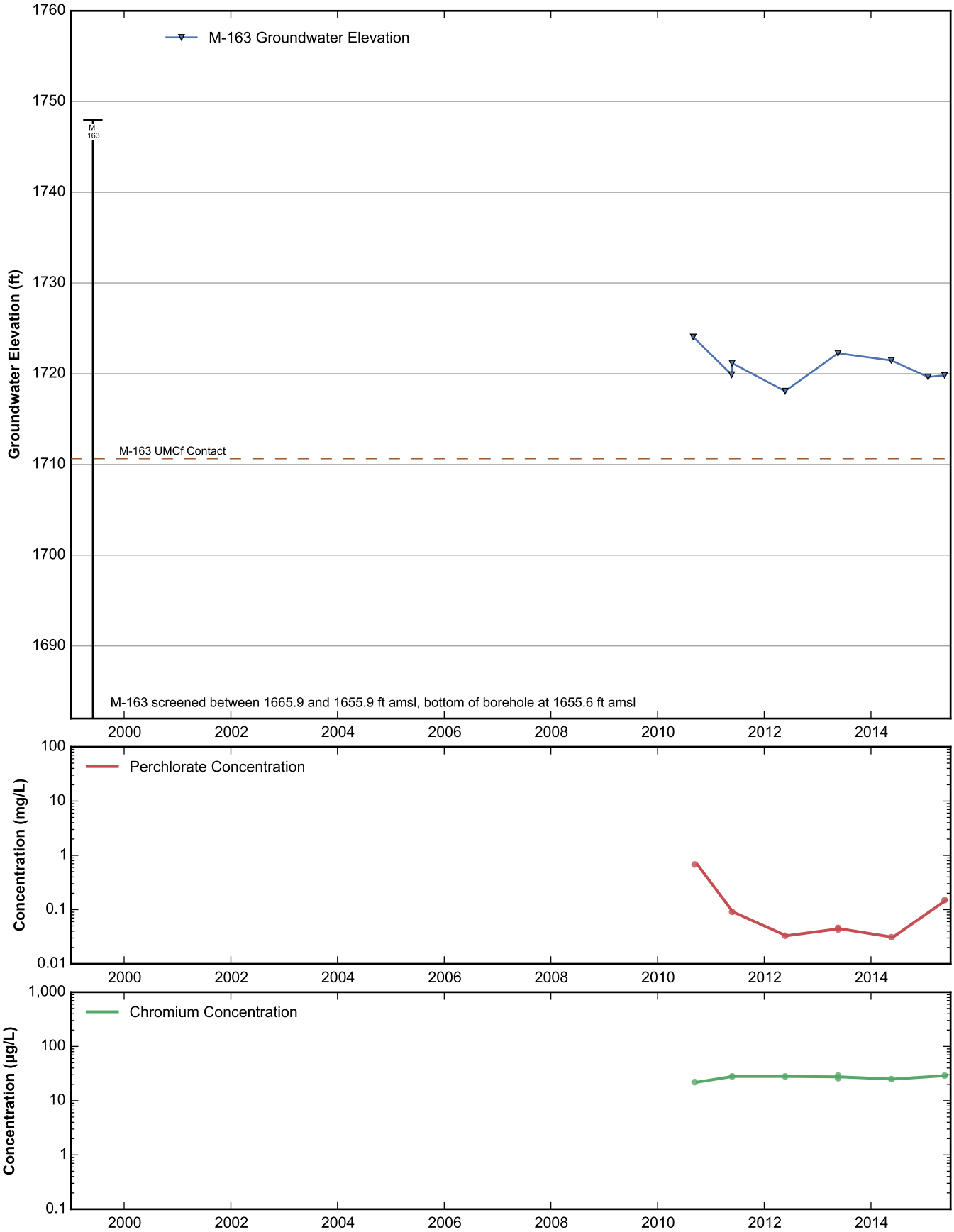


RAMBOLL ENVIRON

Data Sheet for Well M-162
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

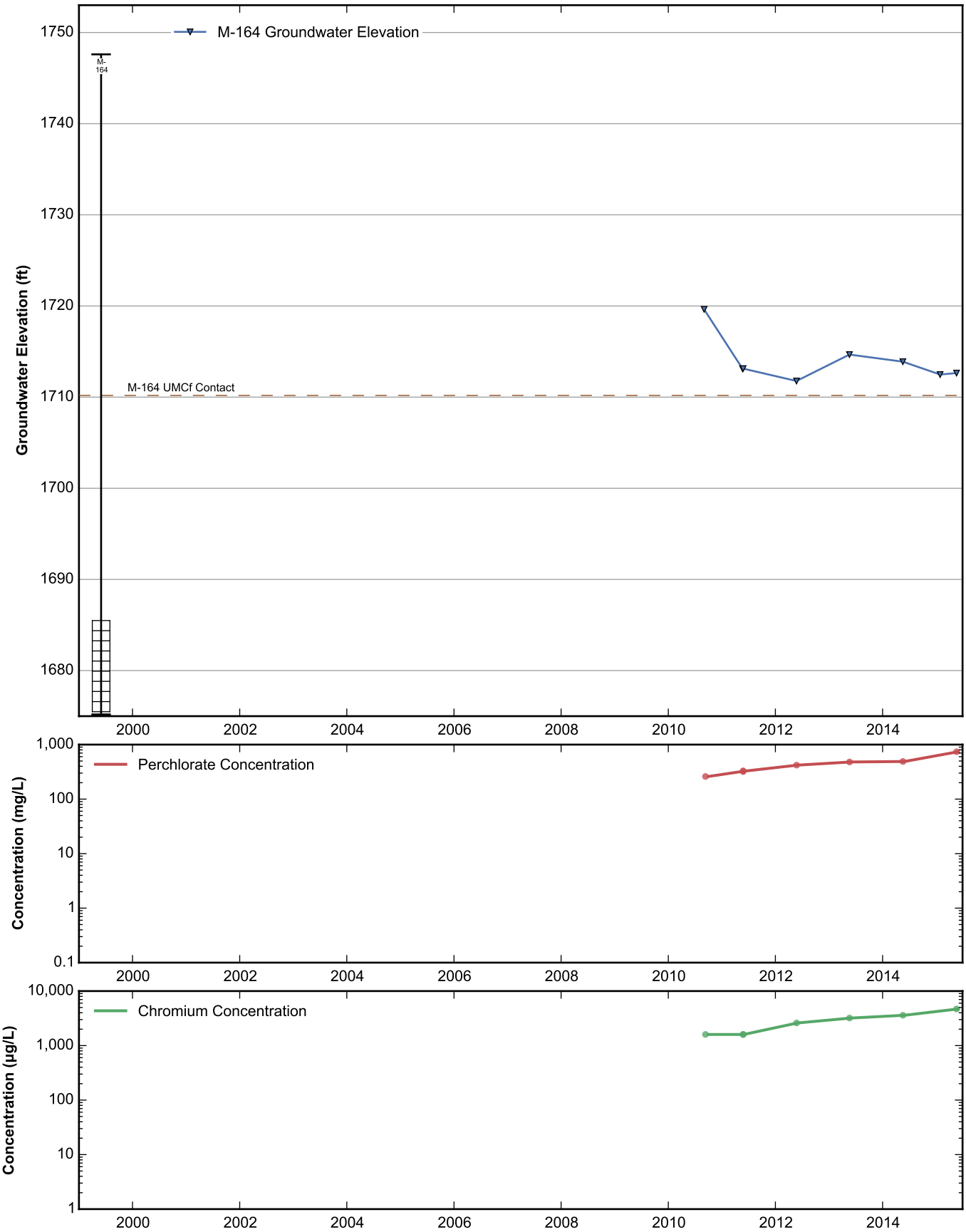


RAMBOLL ENVIRON

Data Sheet for Well M-163
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

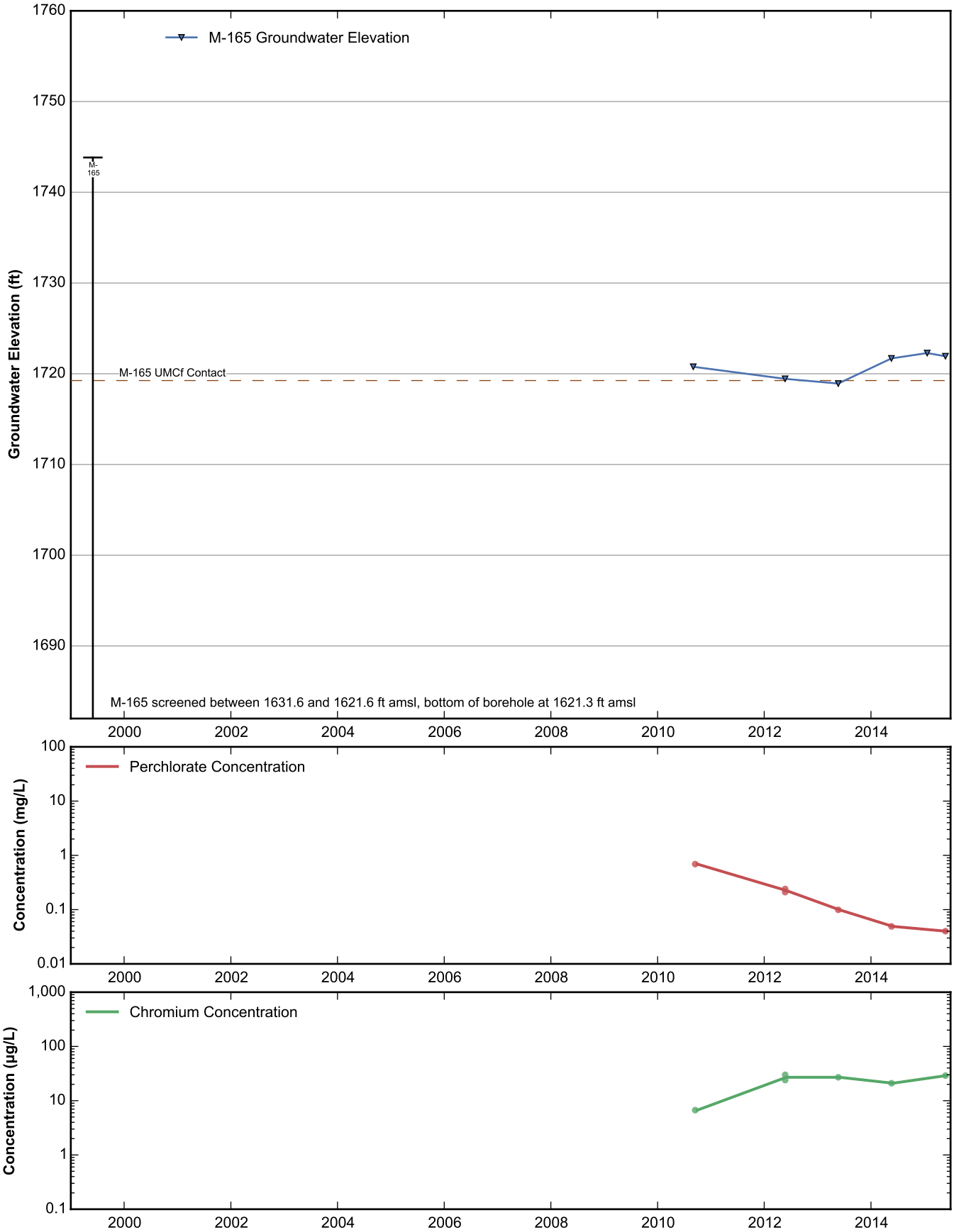


RAMBOLL ENVIRON

Data Sheet for Well M-164
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

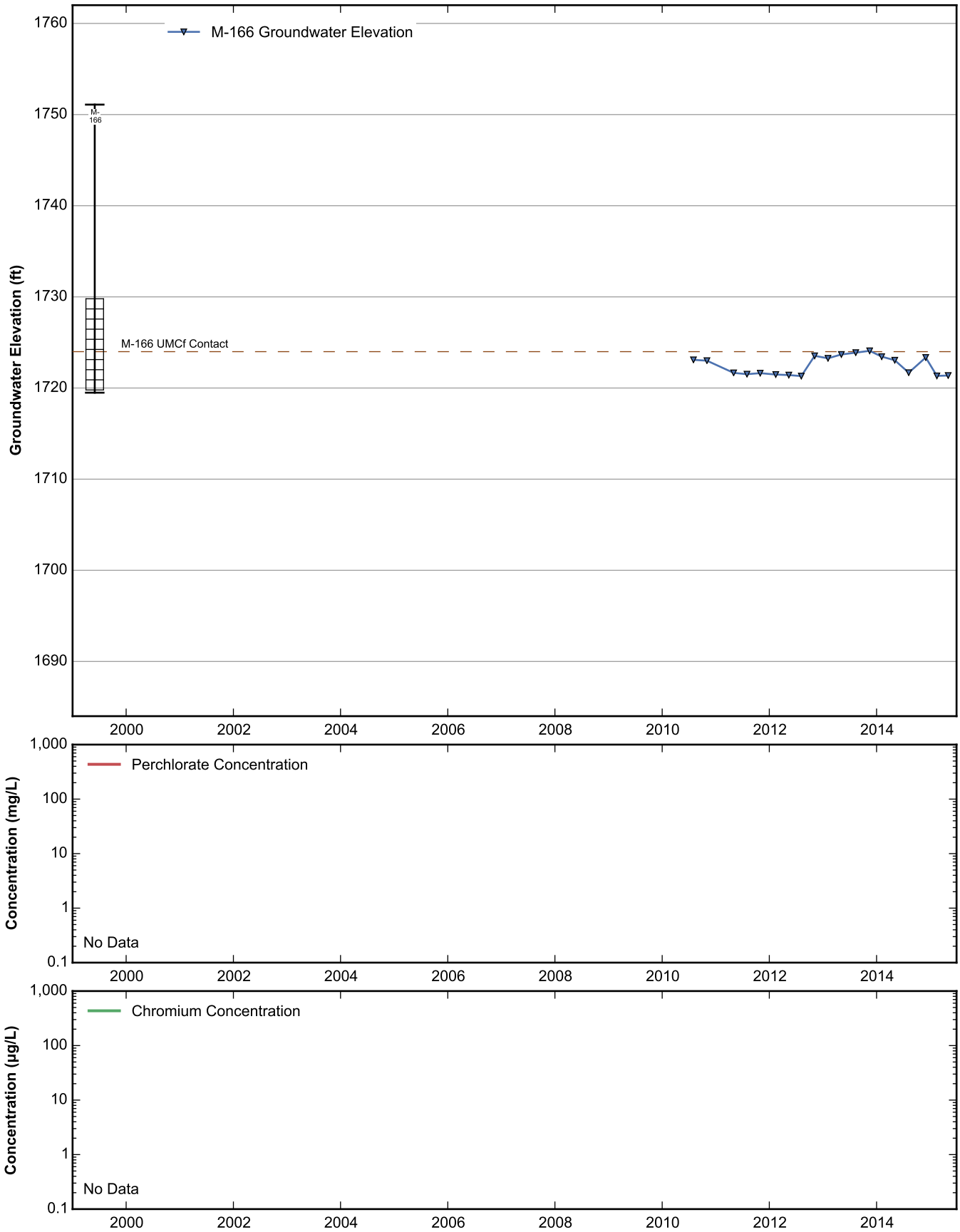


RAMBOLL ENVIRON

Data Sheet for Well M-165
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

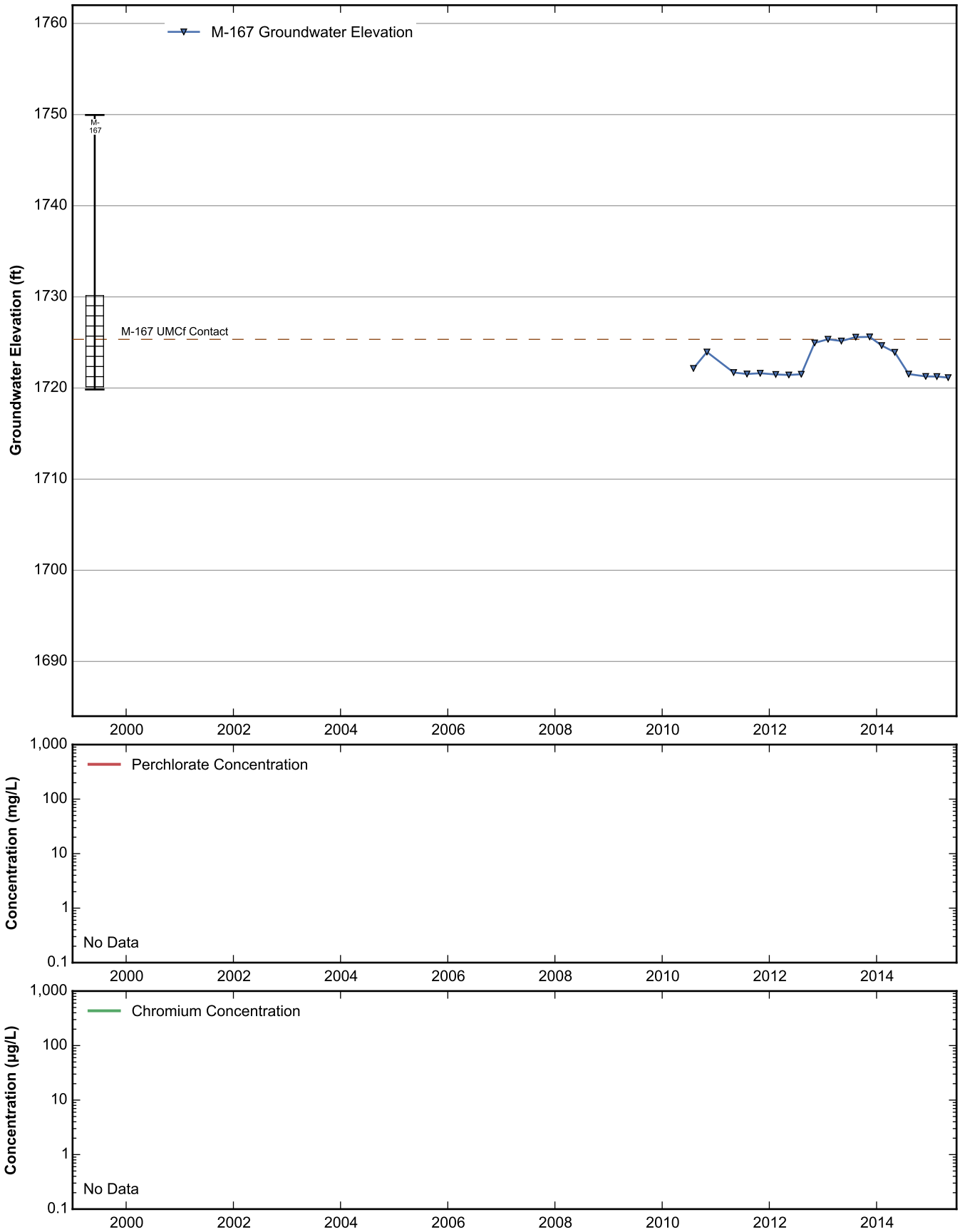


RAMBOLL ENVIRON

Data Sheet for Well M-166
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

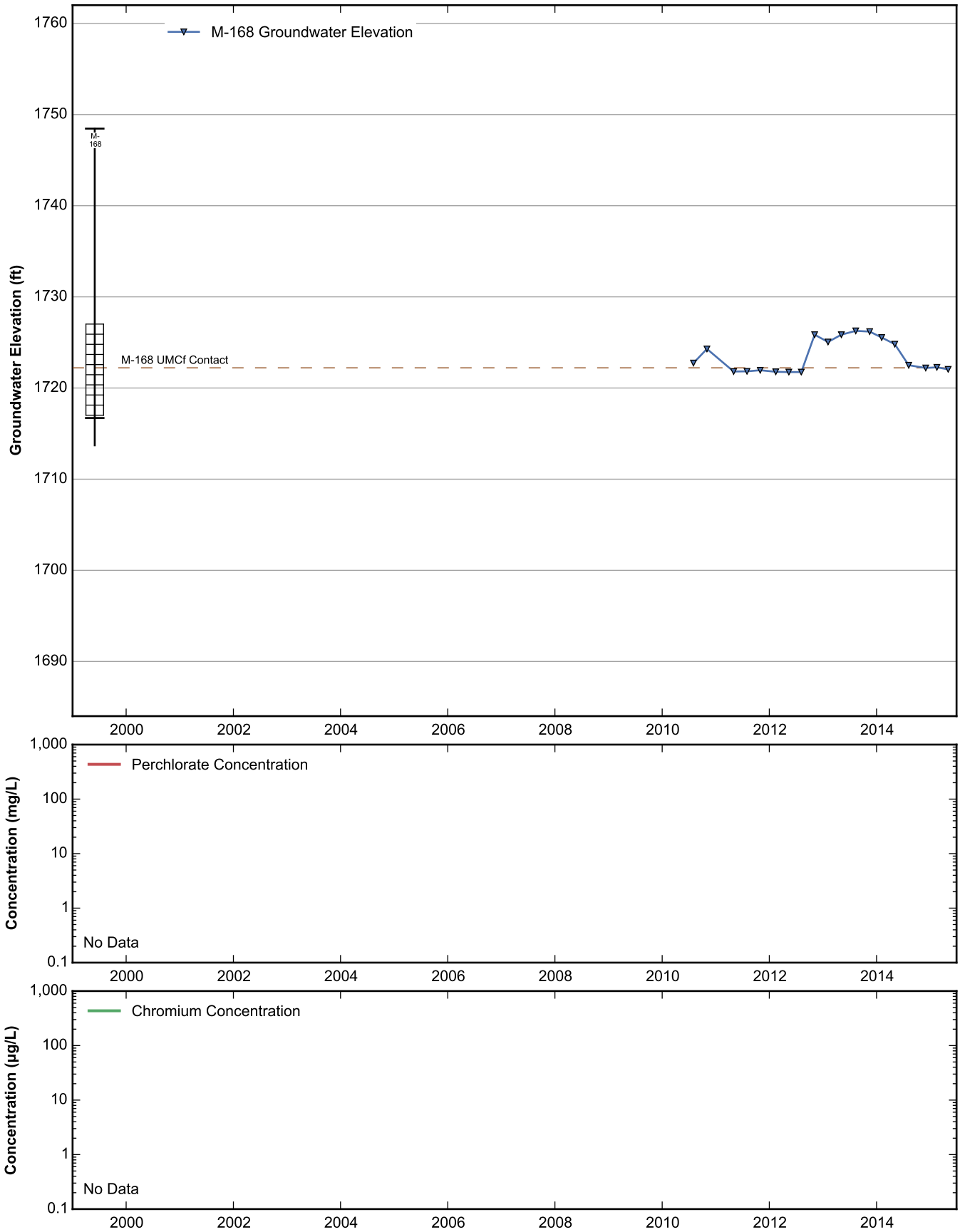


RAMBOLL ENVIRON

Data Sheet for Well M-167
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

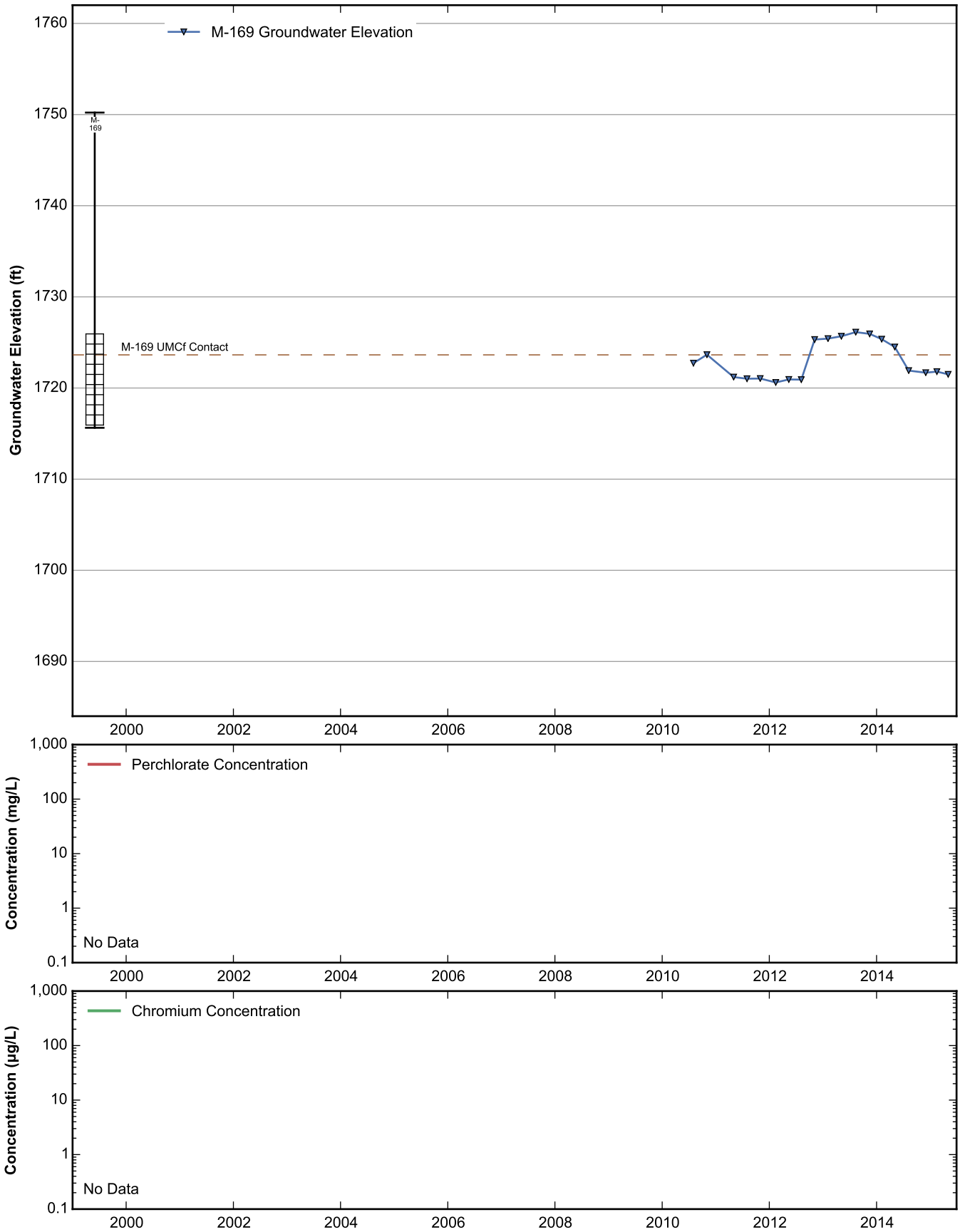


RAMBOLL ENVIRON

Data Sheet for Well M-168
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

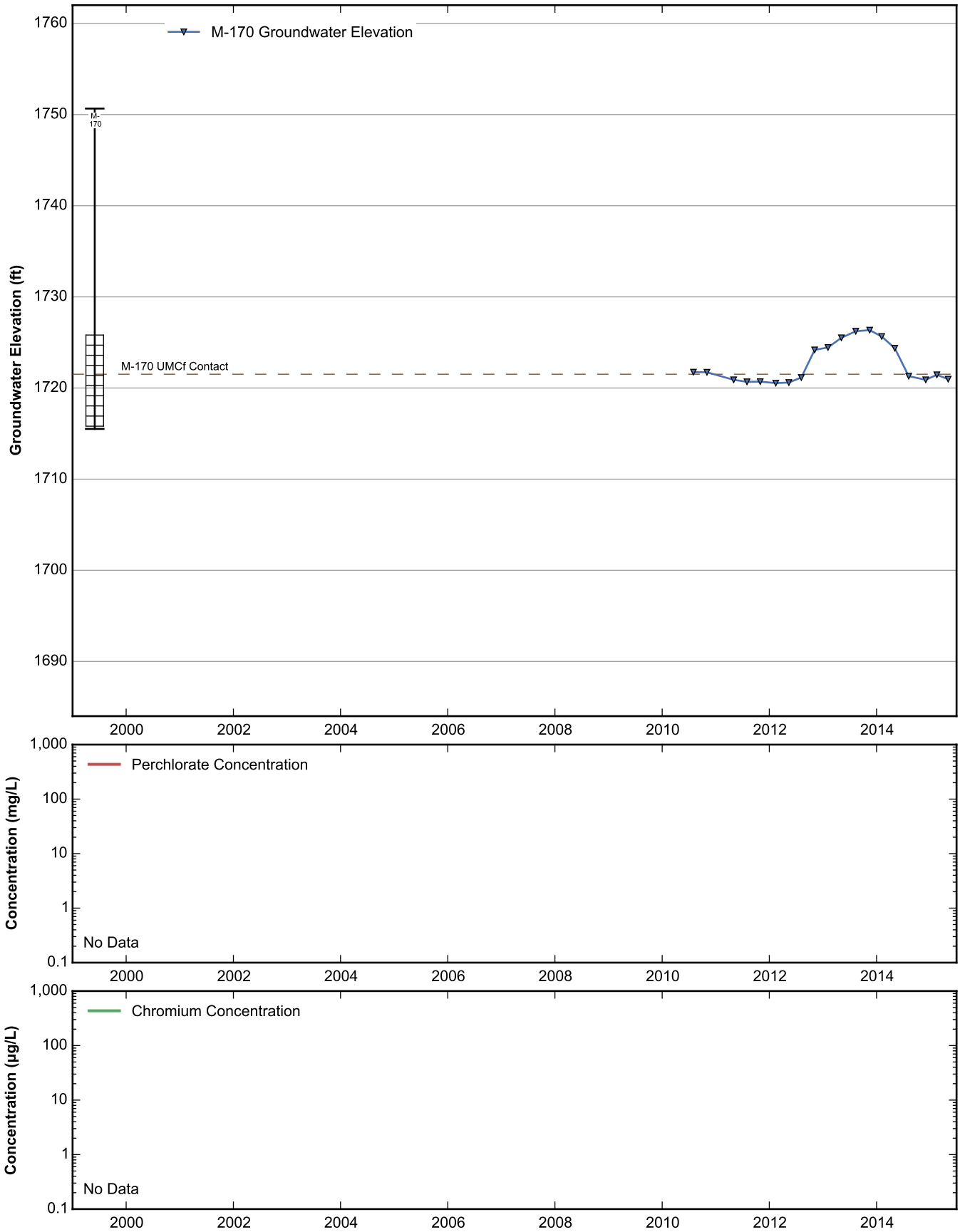


RAMBOLL ENVIRON

Data Sheet for Well M-169
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

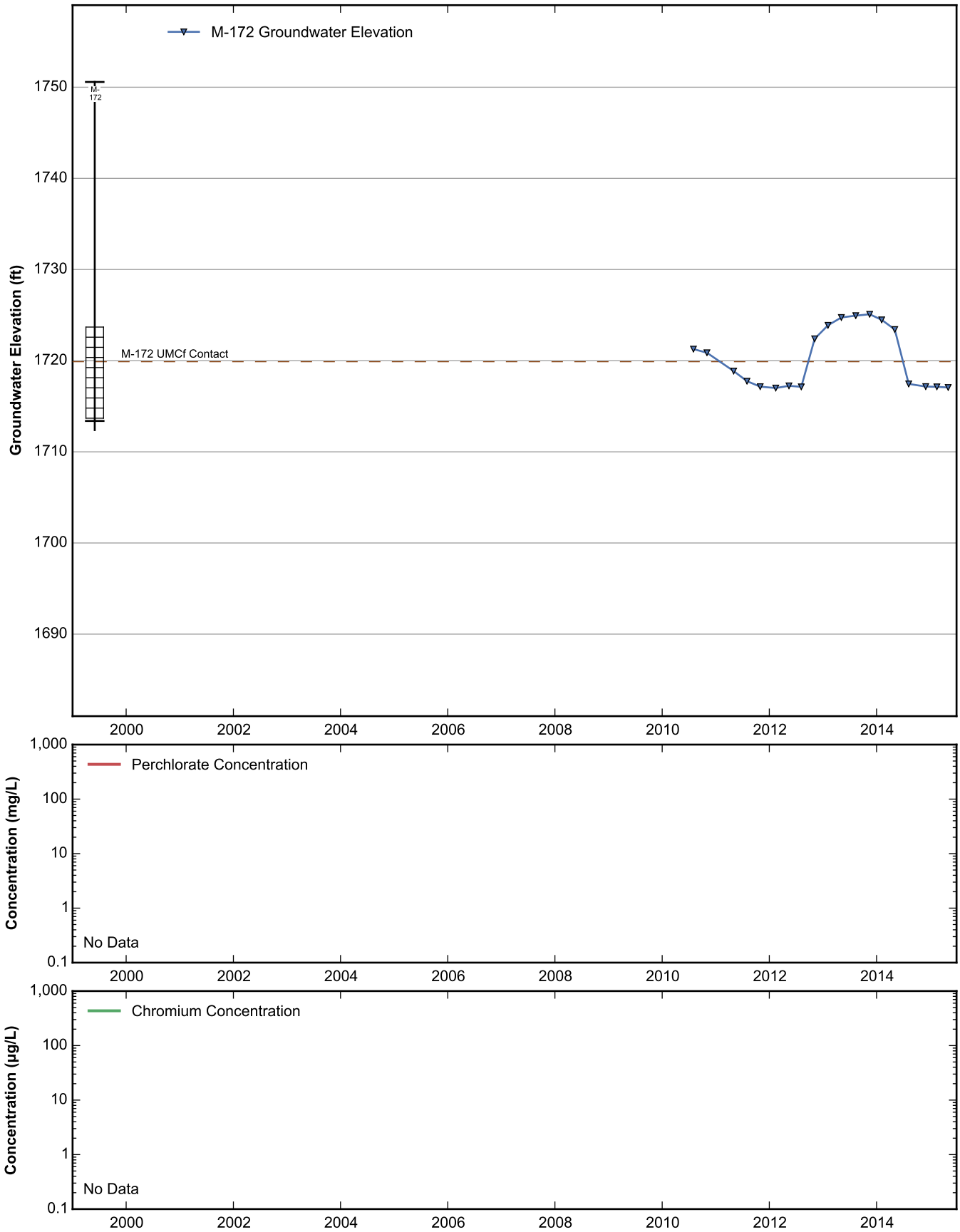
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well M-170
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

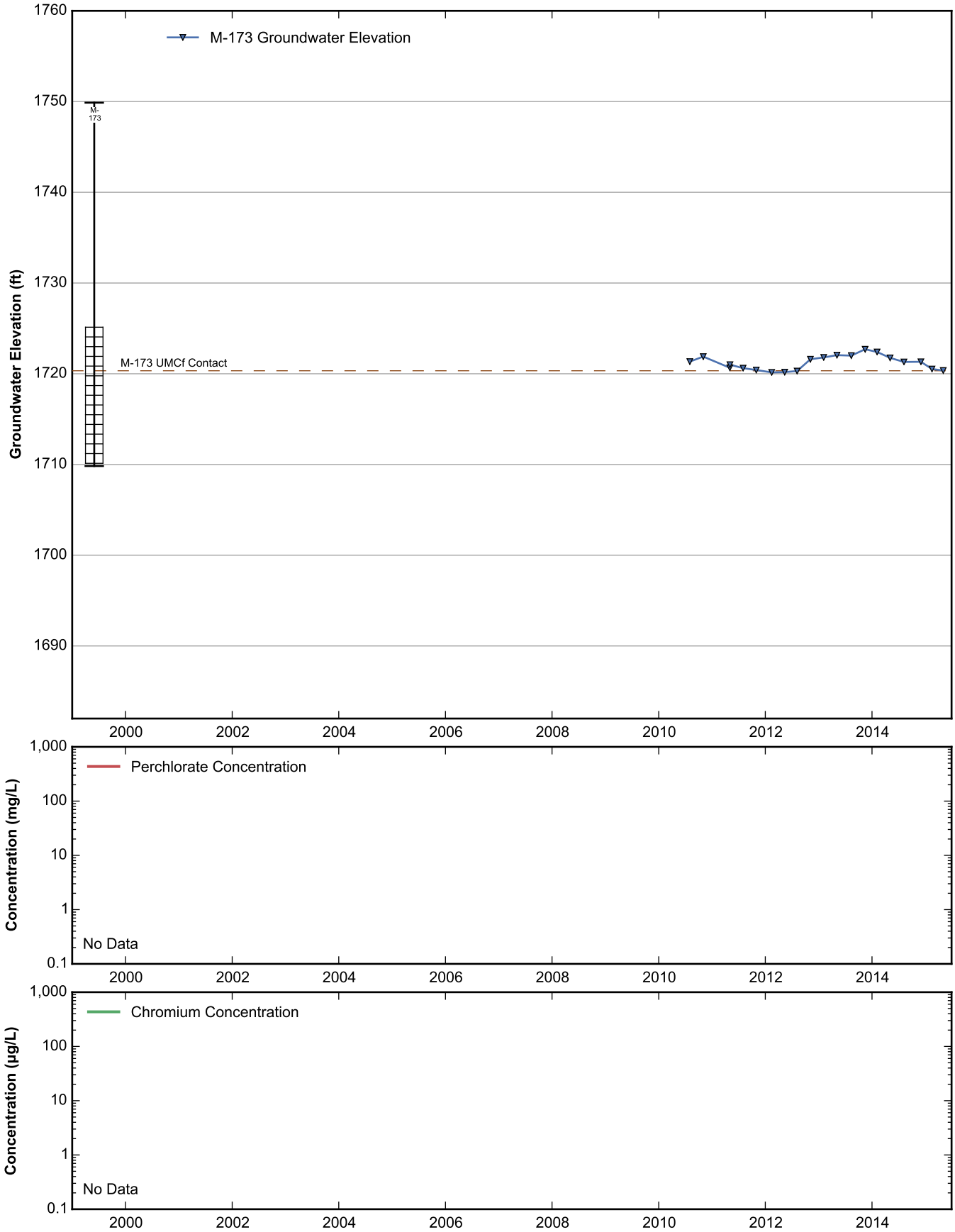


RAMBOLL ENVIRON

Data Sheet for Well M-172
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

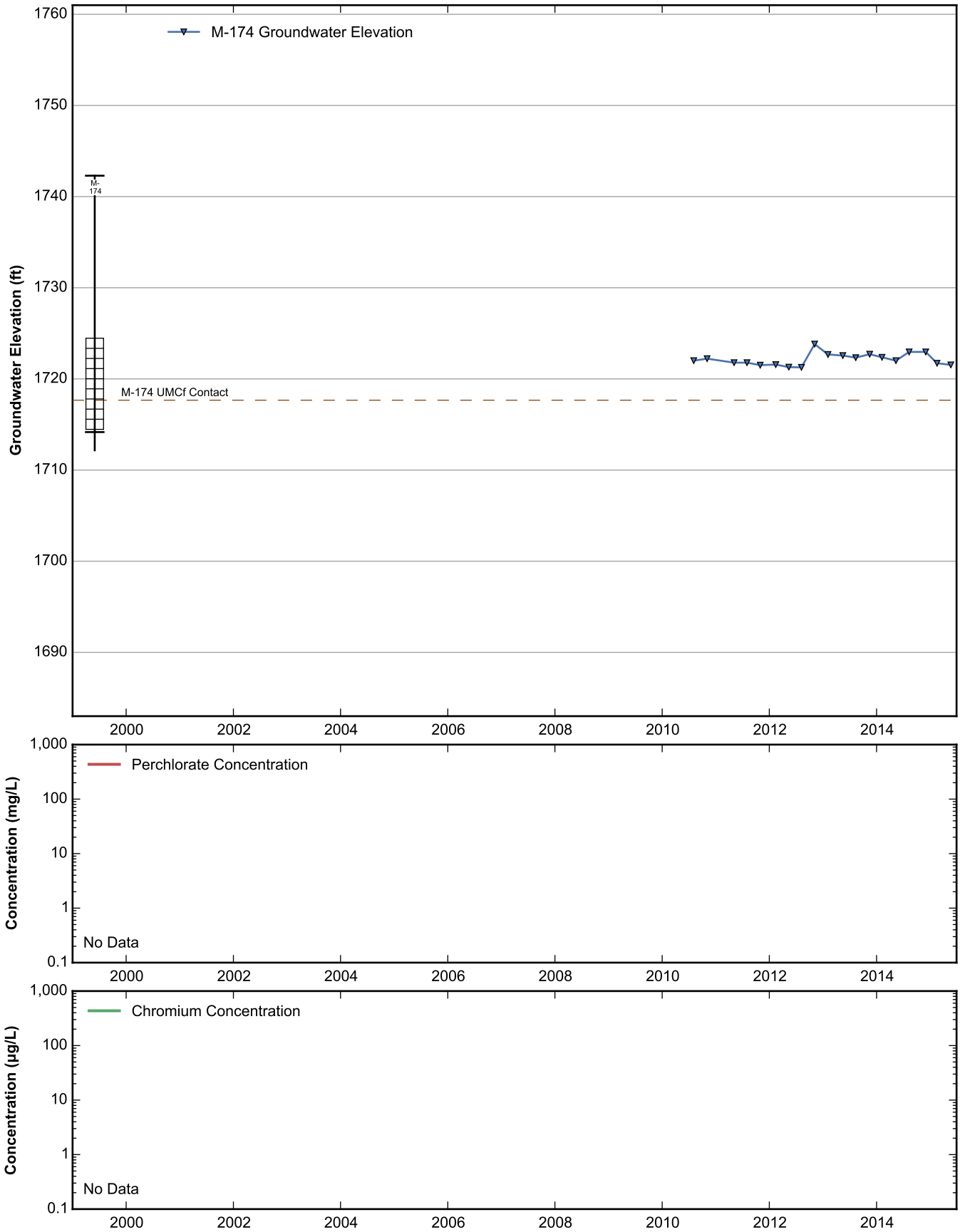


RAMBOLL ENVIRON

Data Sheet for Well M-173
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

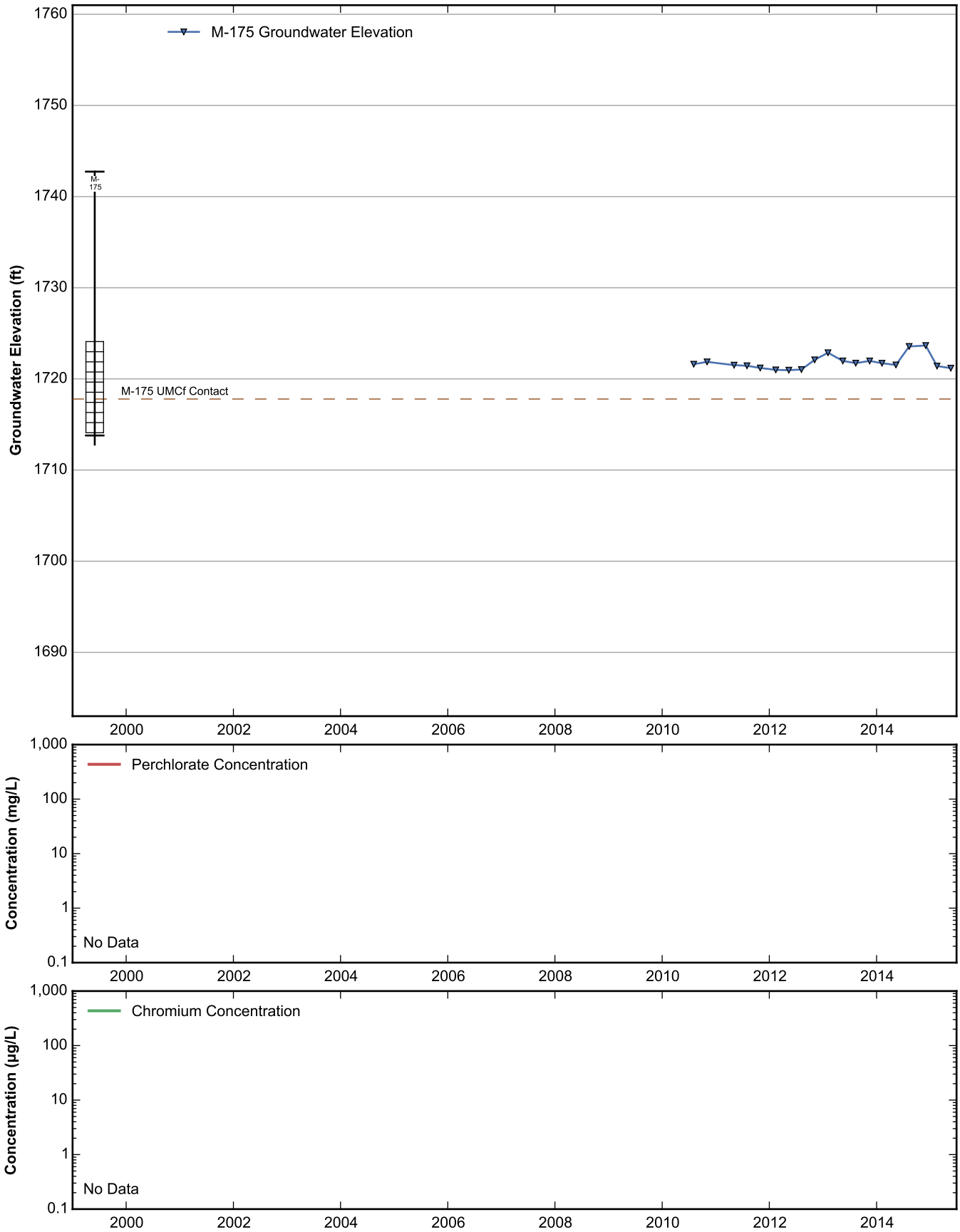


RAMBOLL ENVIRON

Data Sheet for Well M-174
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

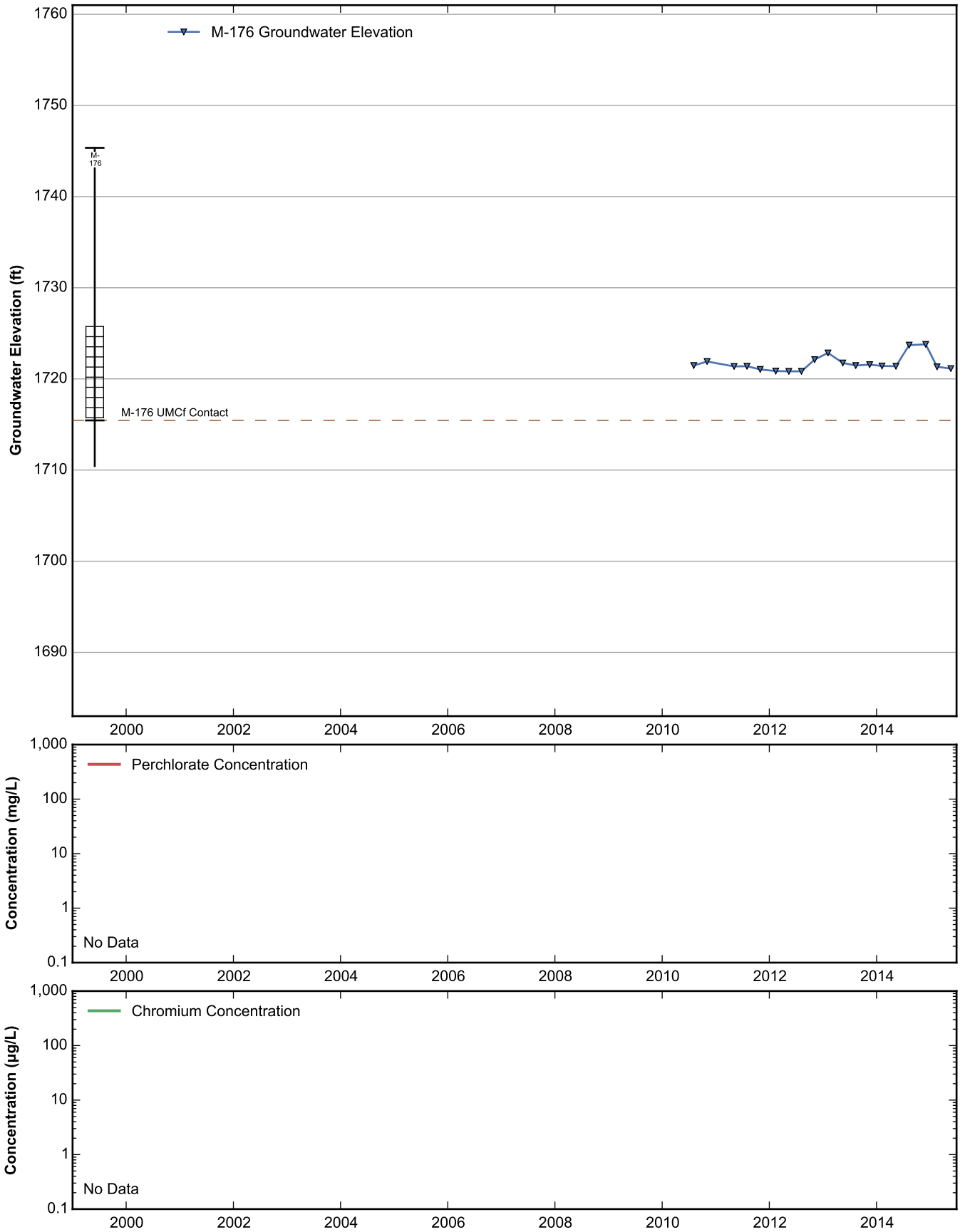


RAMBOLL ENVIRON

Data Sheet for Well M-175
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

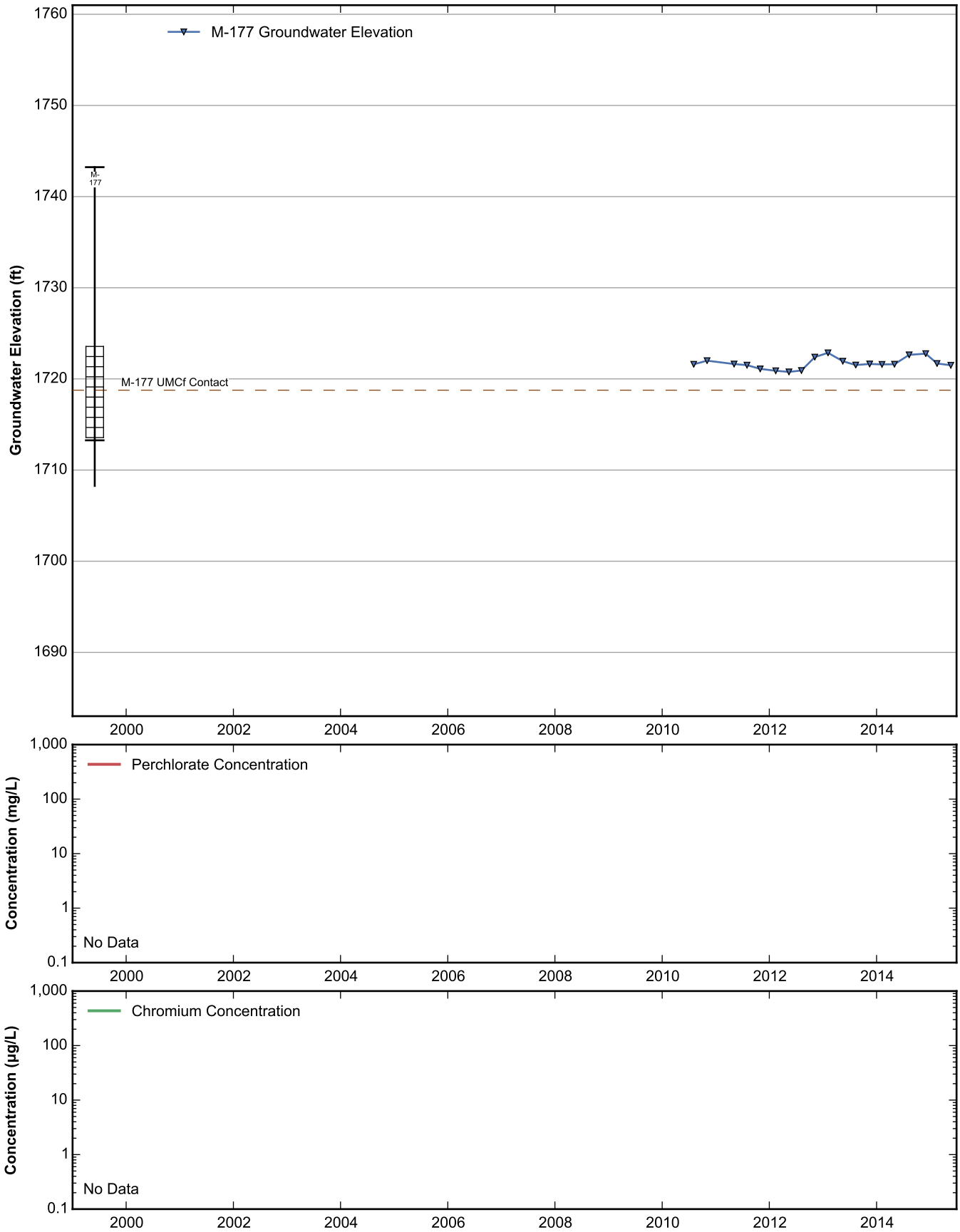


RAMBOLL ENVIRON

Data Sheet for Well M-176
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

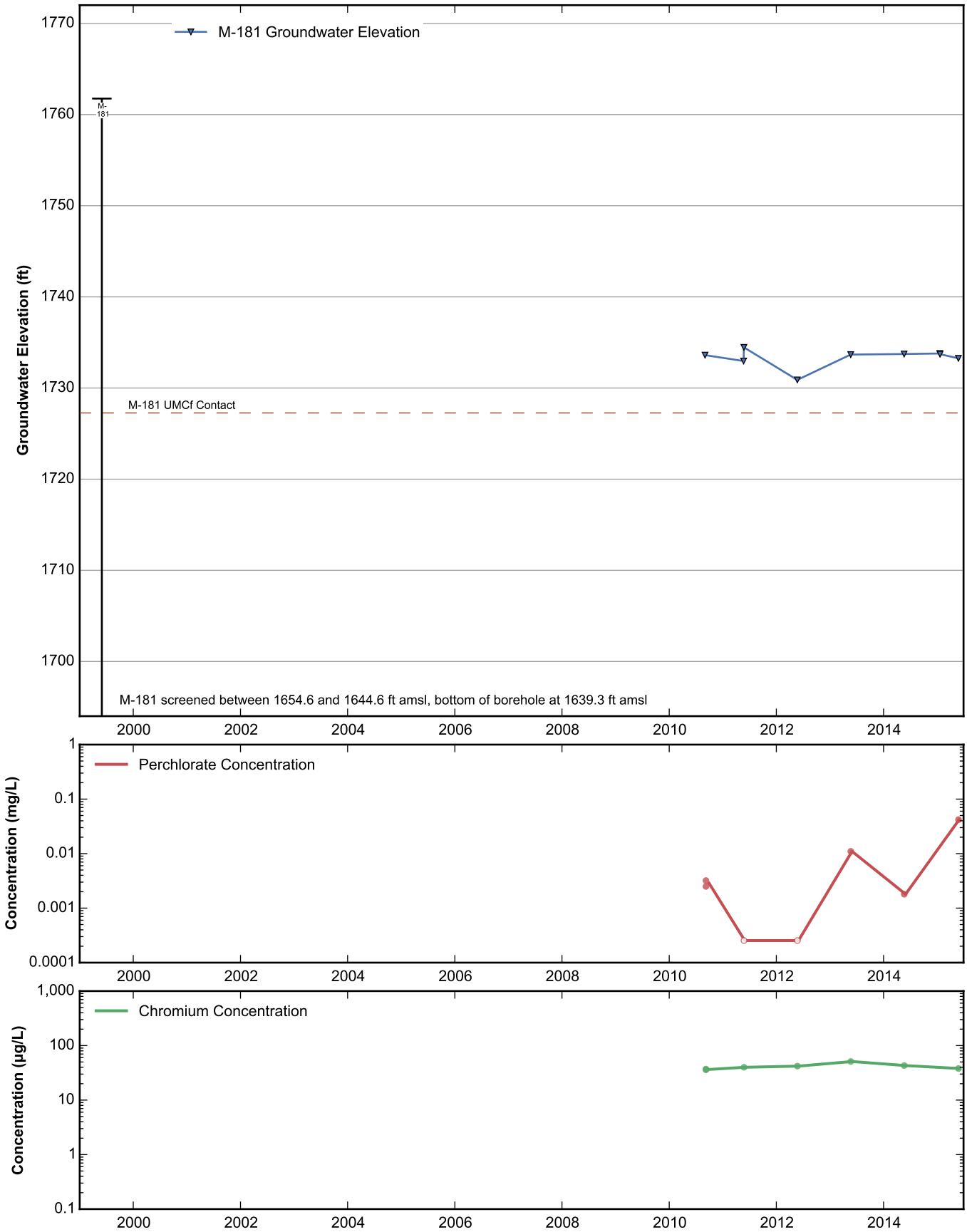


RAMBOLL ENVIRON

Data Sheet for Well M-177
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

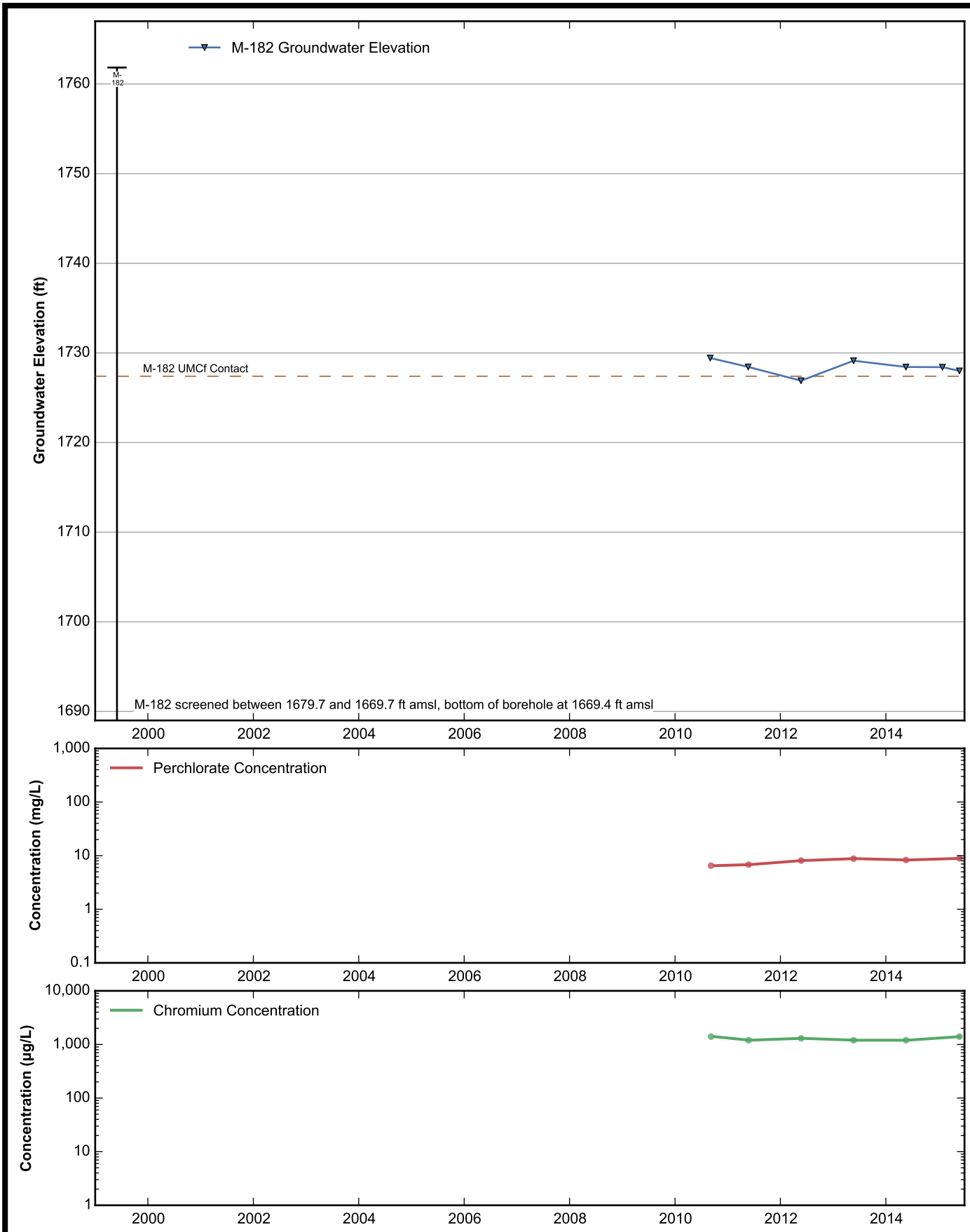


RAMBOLL ENVIRON

Data Sheet for Well M-181
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

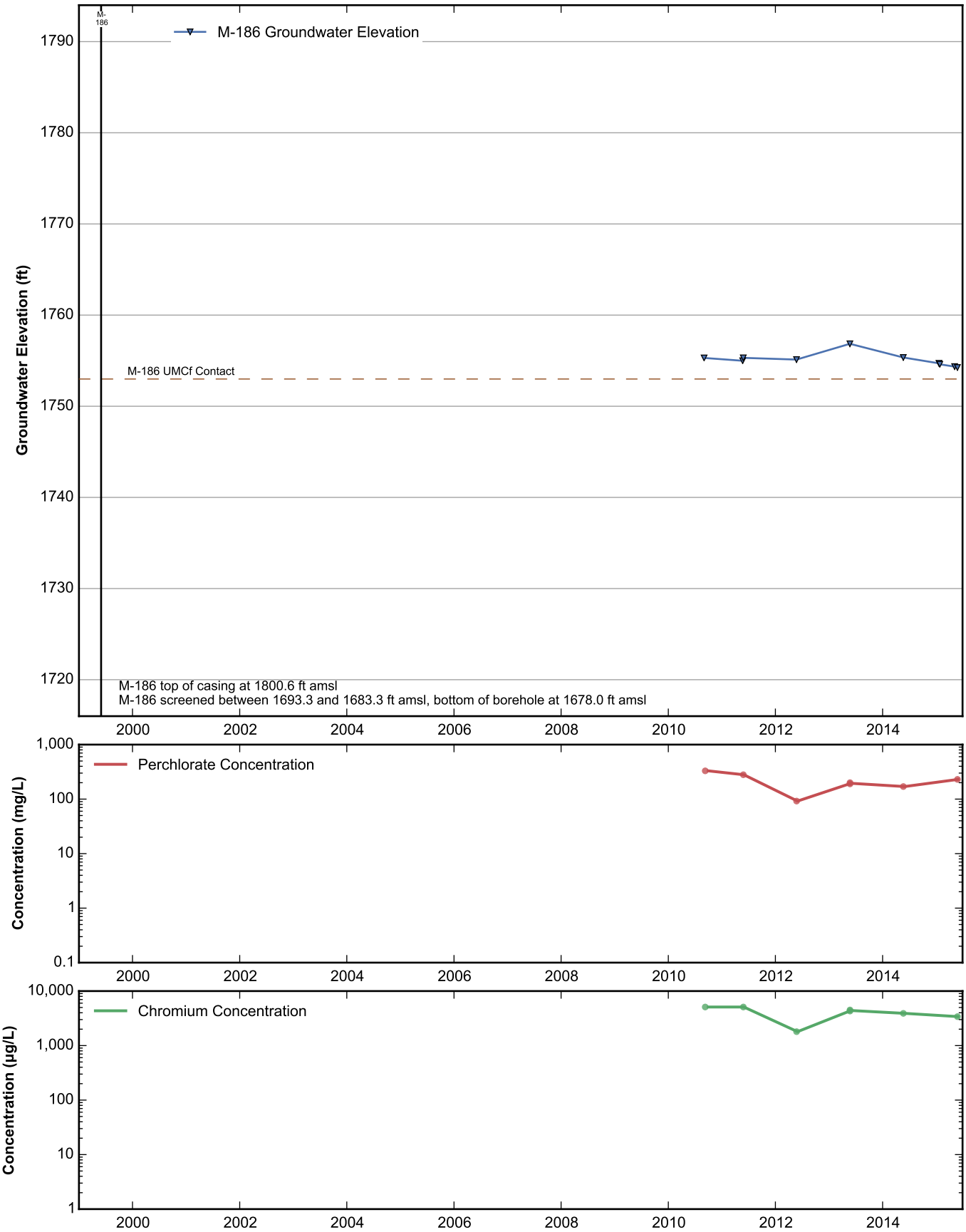


RAMBOLL ENVIRON

Data Sheet for Well M-182
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

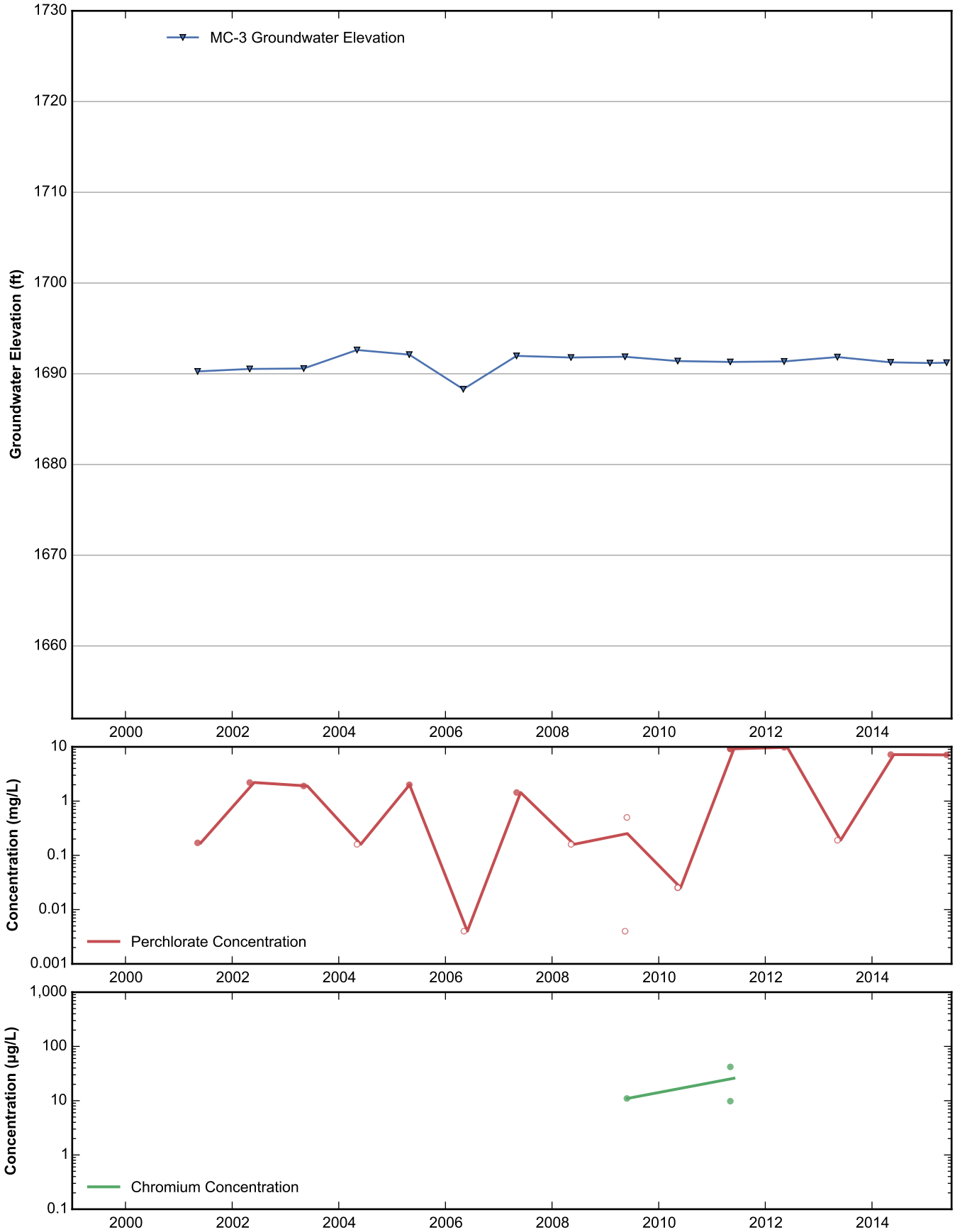


RAMBOLL ENVIRON

Data Sheet for Well M-186
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

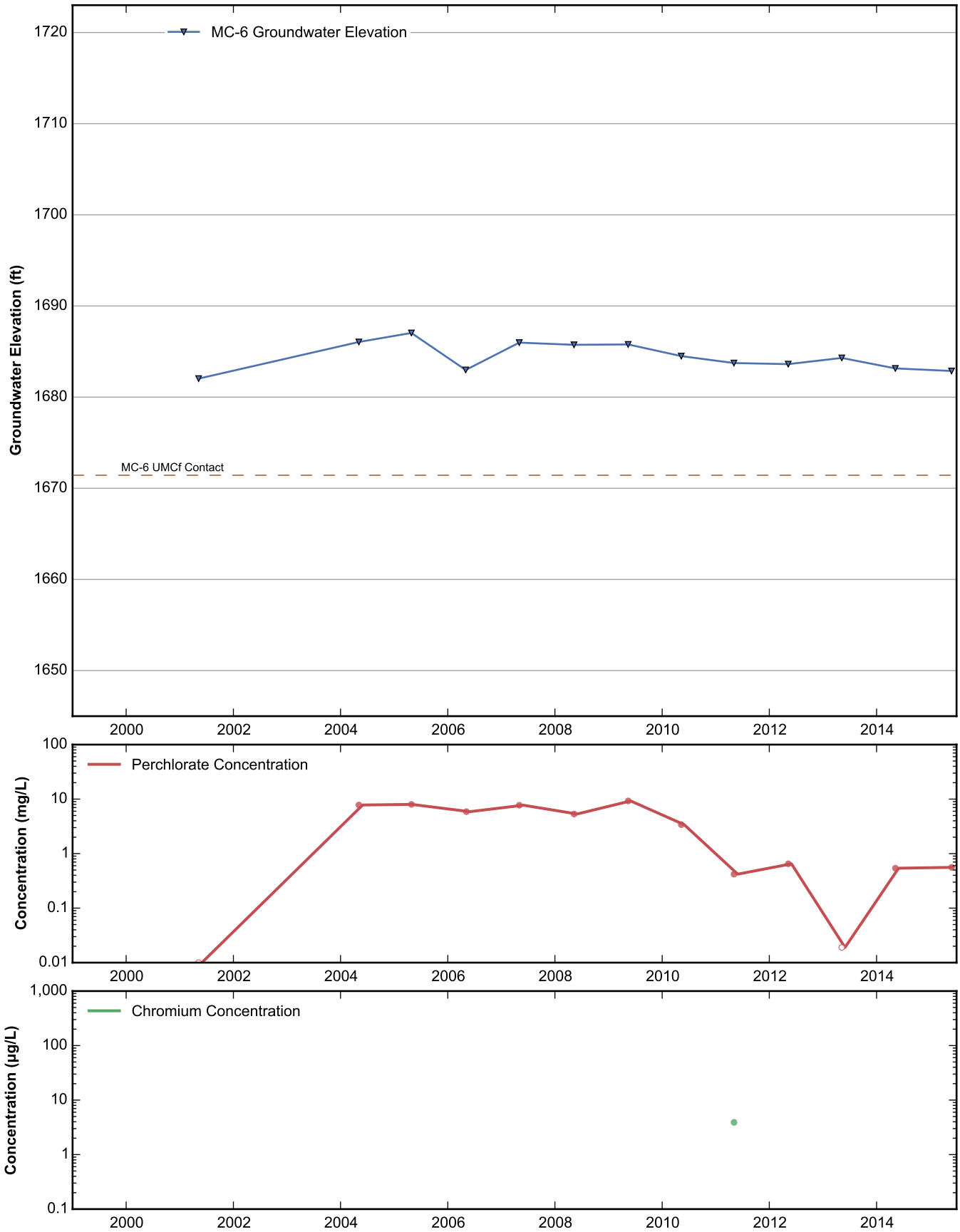


RAMBOLL ENVIRON

Data Sheet for Well MC-3
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

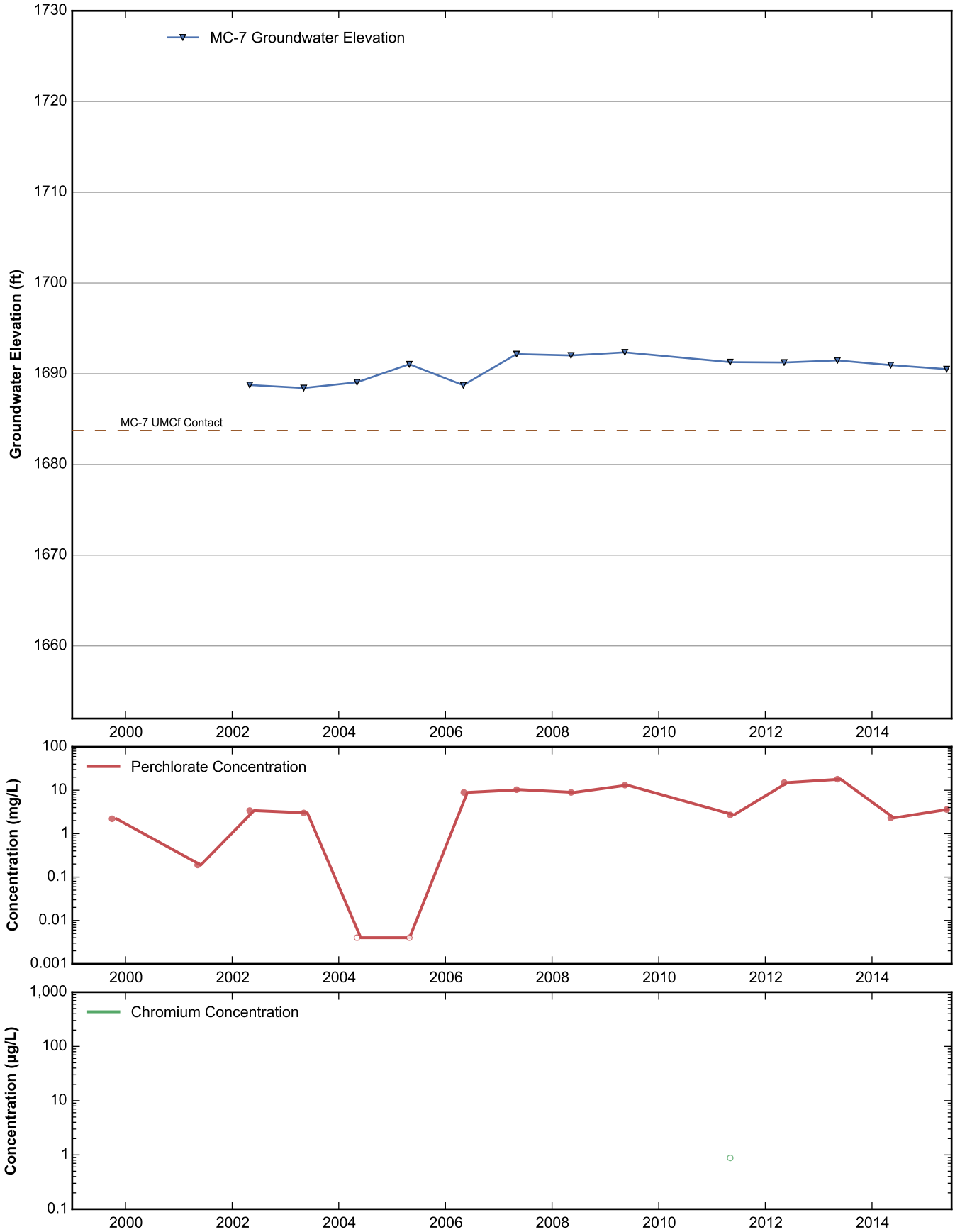


RAMBOLL ENVIRON

Data Sheet for Well MC-6
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

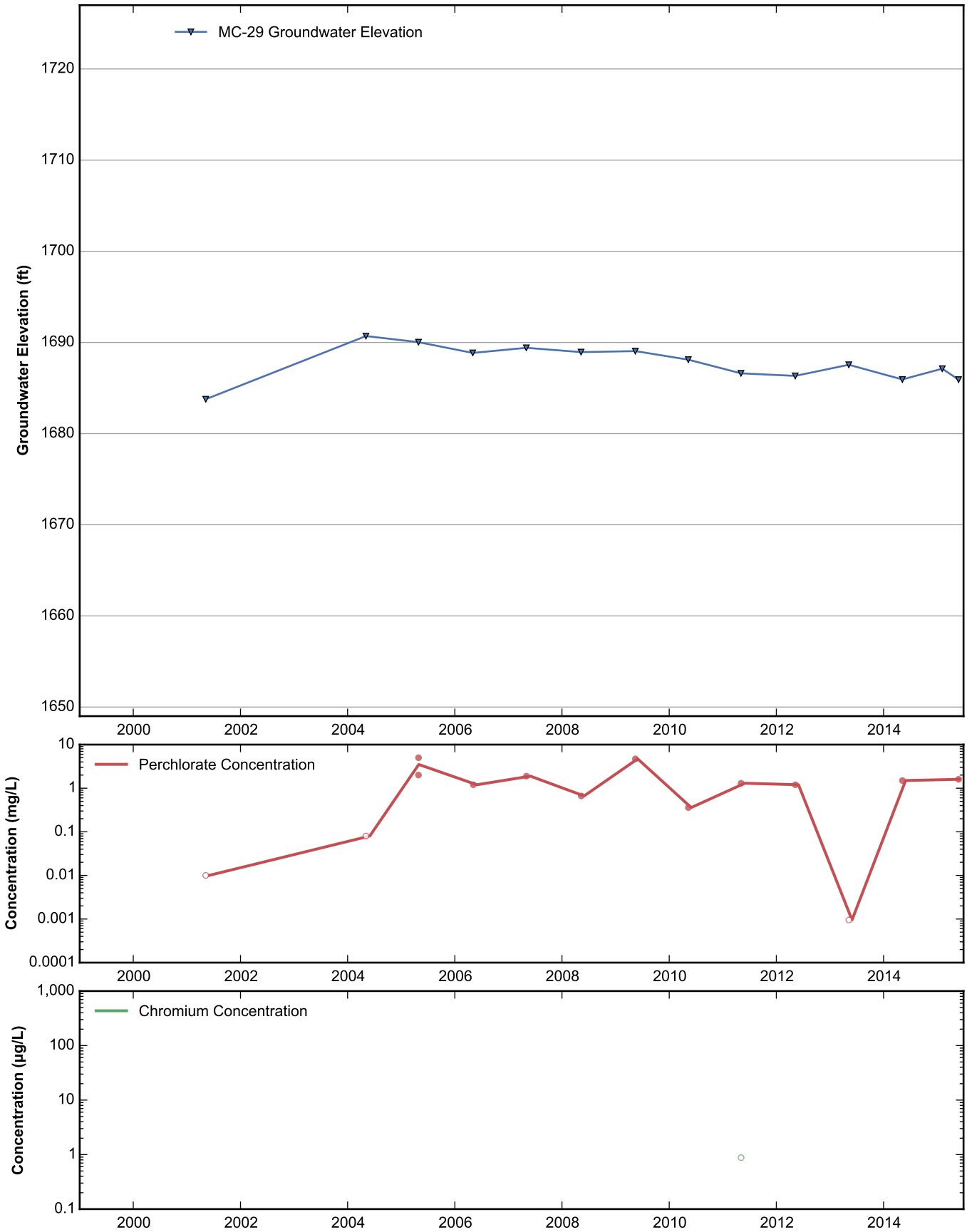


RAMBOLL ENVIRON

Data Sheet for Well MC-7
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

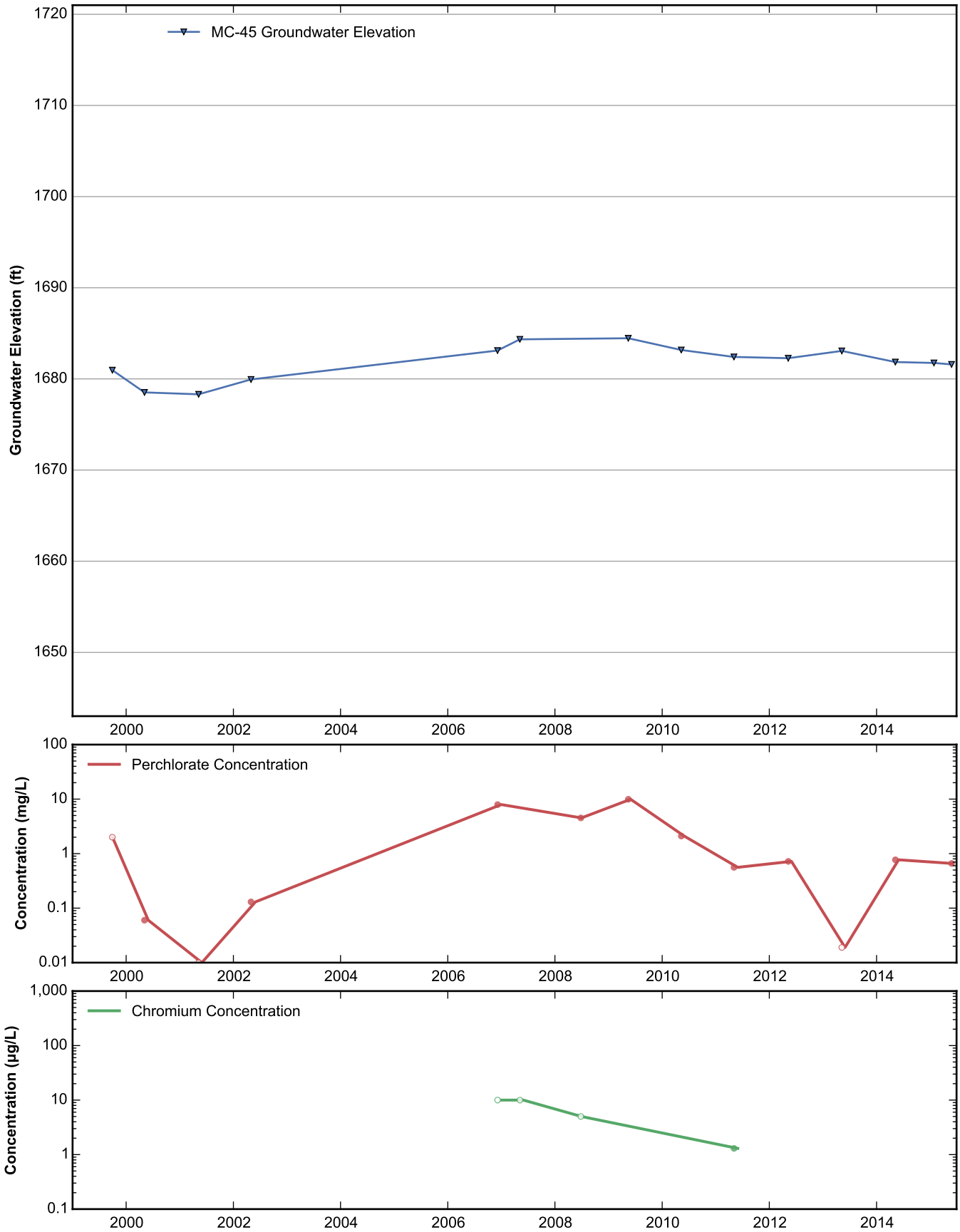


RAMBOLL ENVIRON

Data Sheet for Well MC-29
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

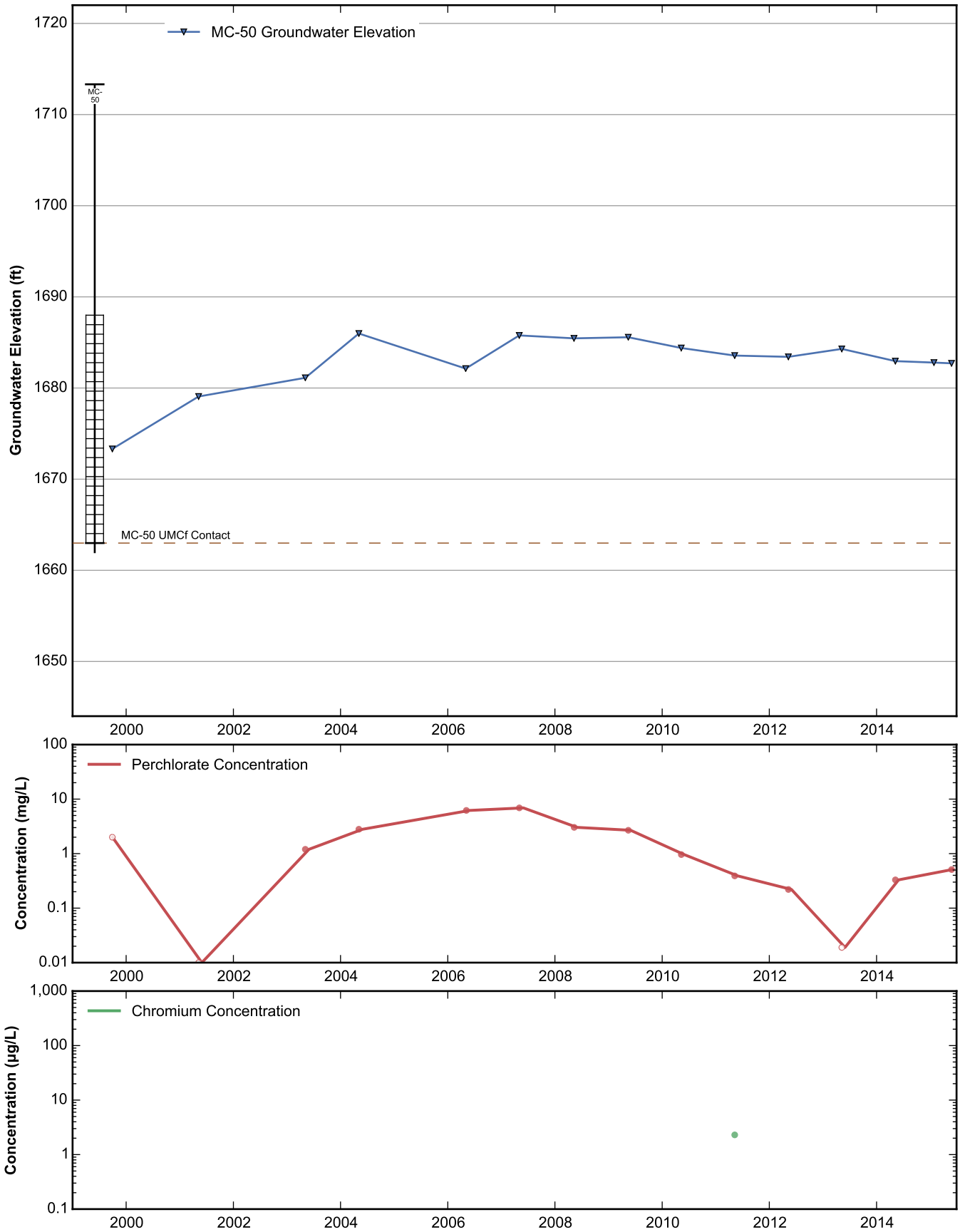


RAMBOLL ENVIRON

Data Sheet for Well MC-45
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

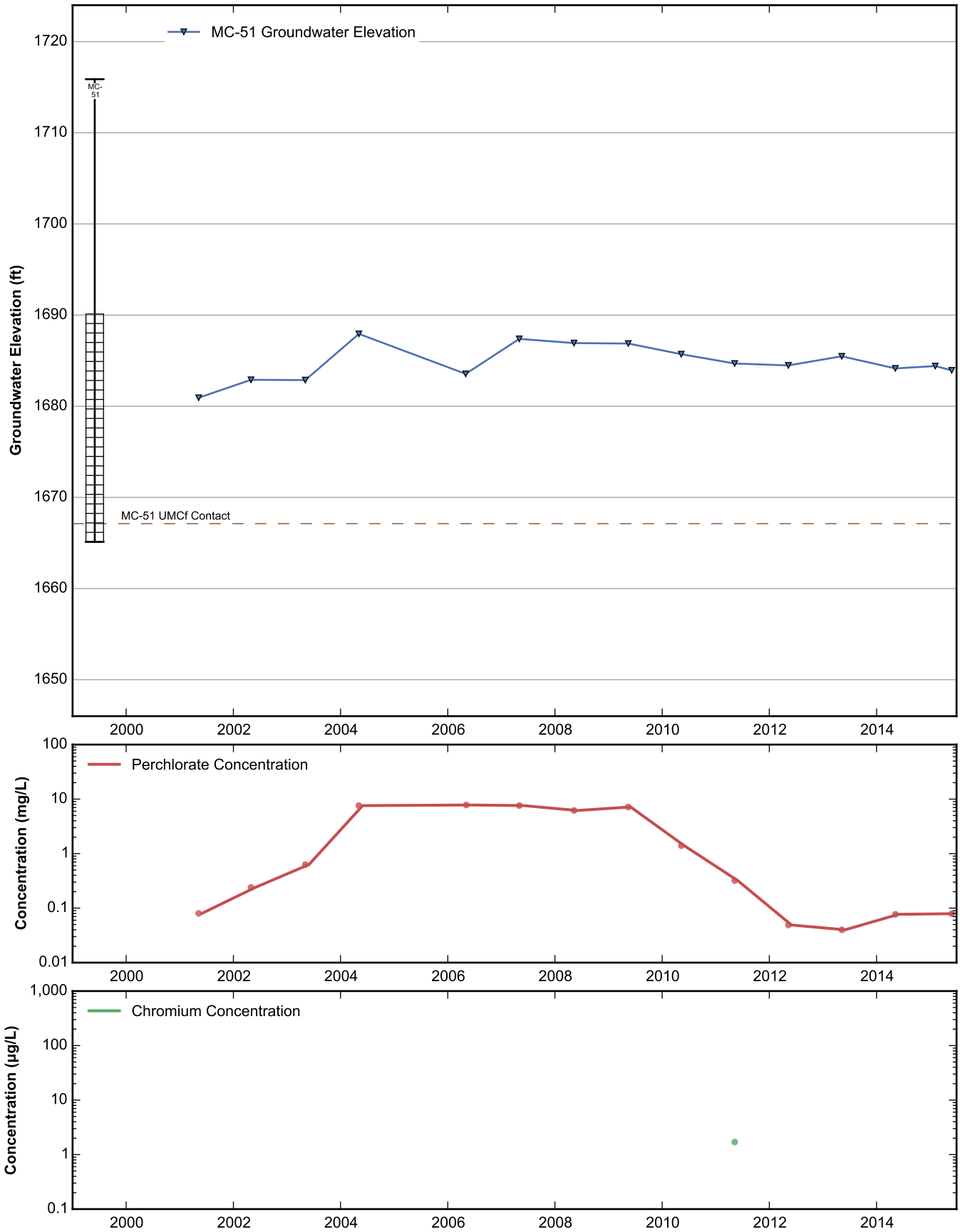


RAMBOLL ENVIRON

Data Sheet for Well MC-50
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well MC-51
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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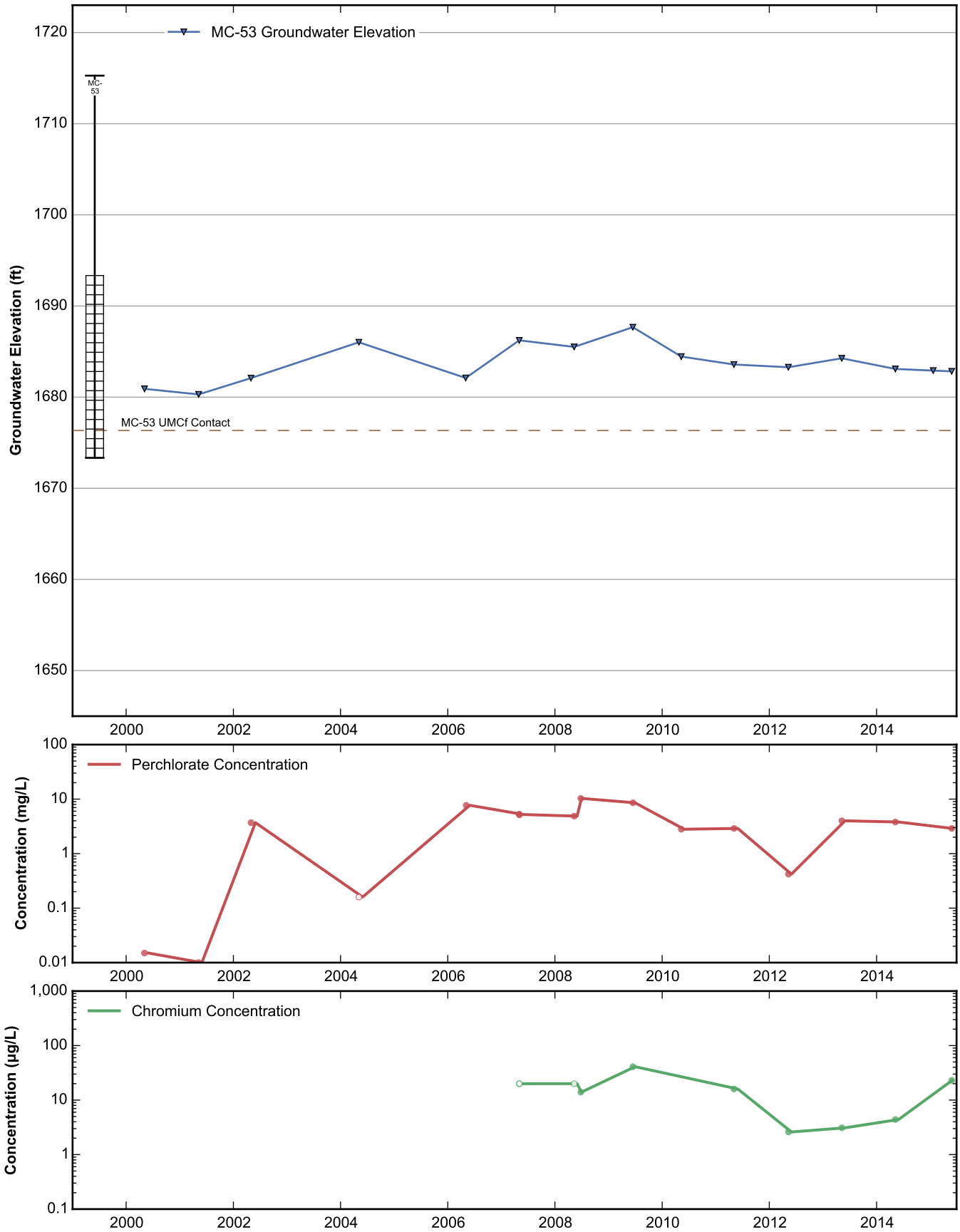
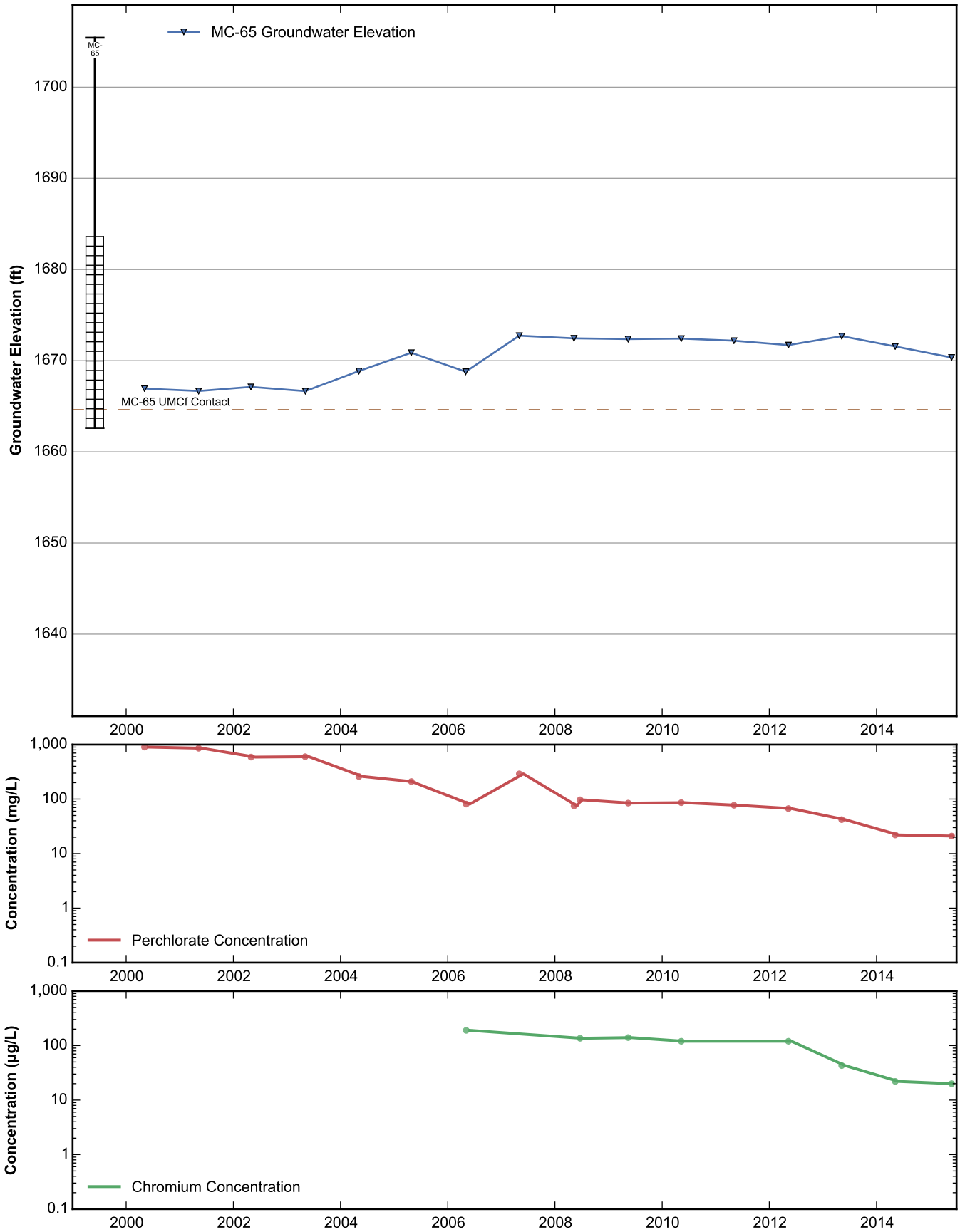


RAMBOLL ENVIRON

Data Sheet for Well MC-53
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well MC-65
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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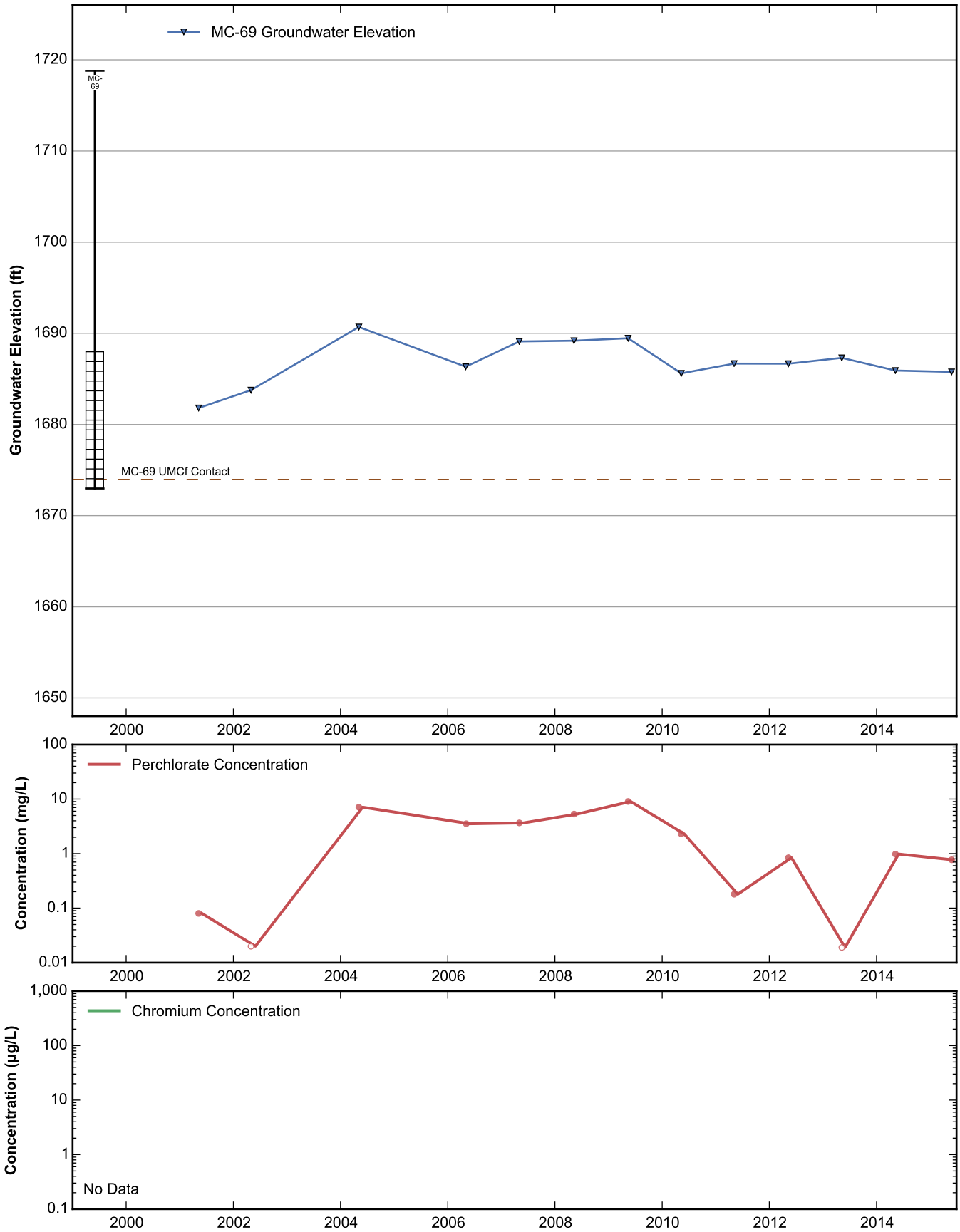
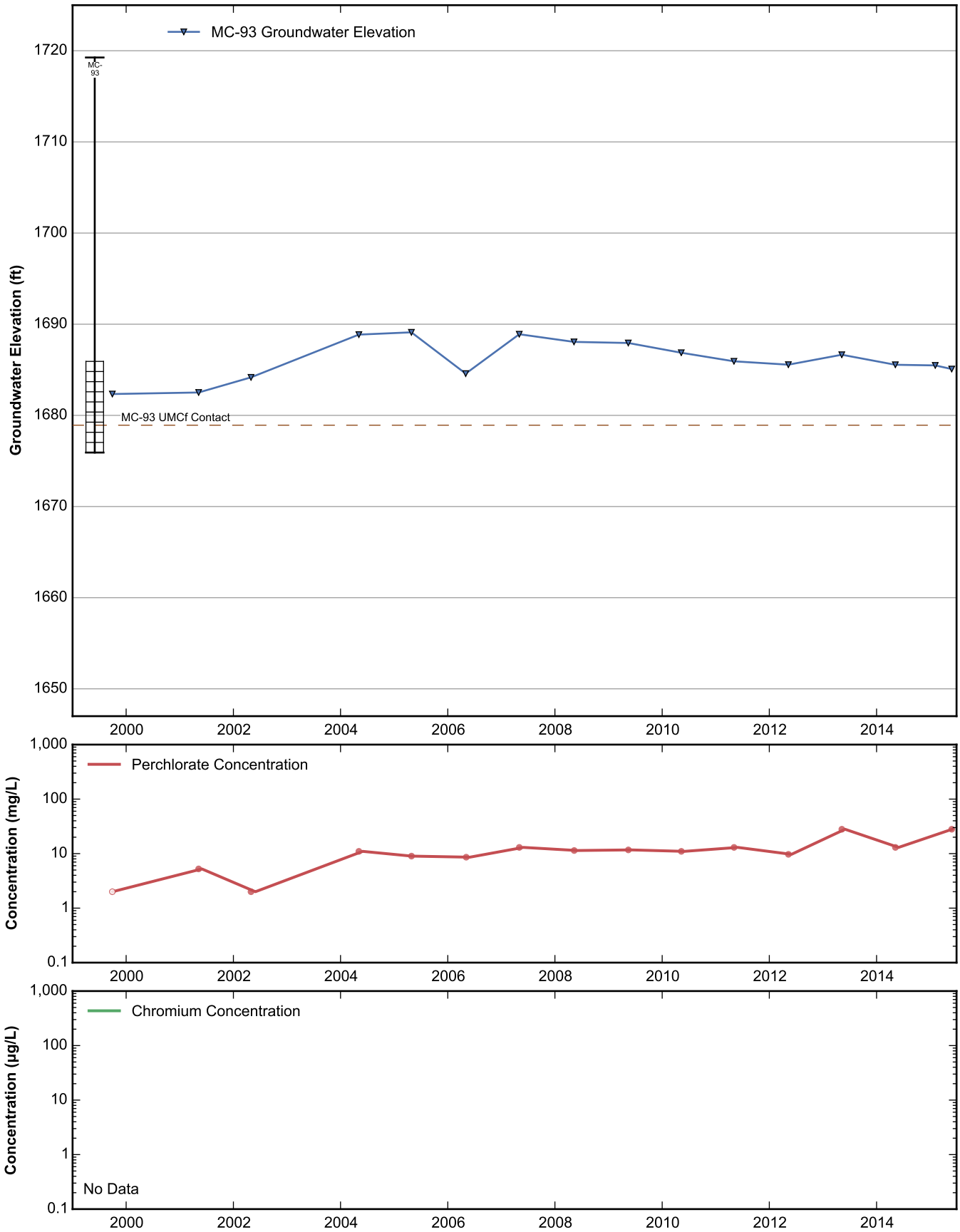


RAMBOLL ENVIRON

Data Sheet for Well MC-69
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:



RAMBOLL ENVIRON

Data Sheet for Well MC-93
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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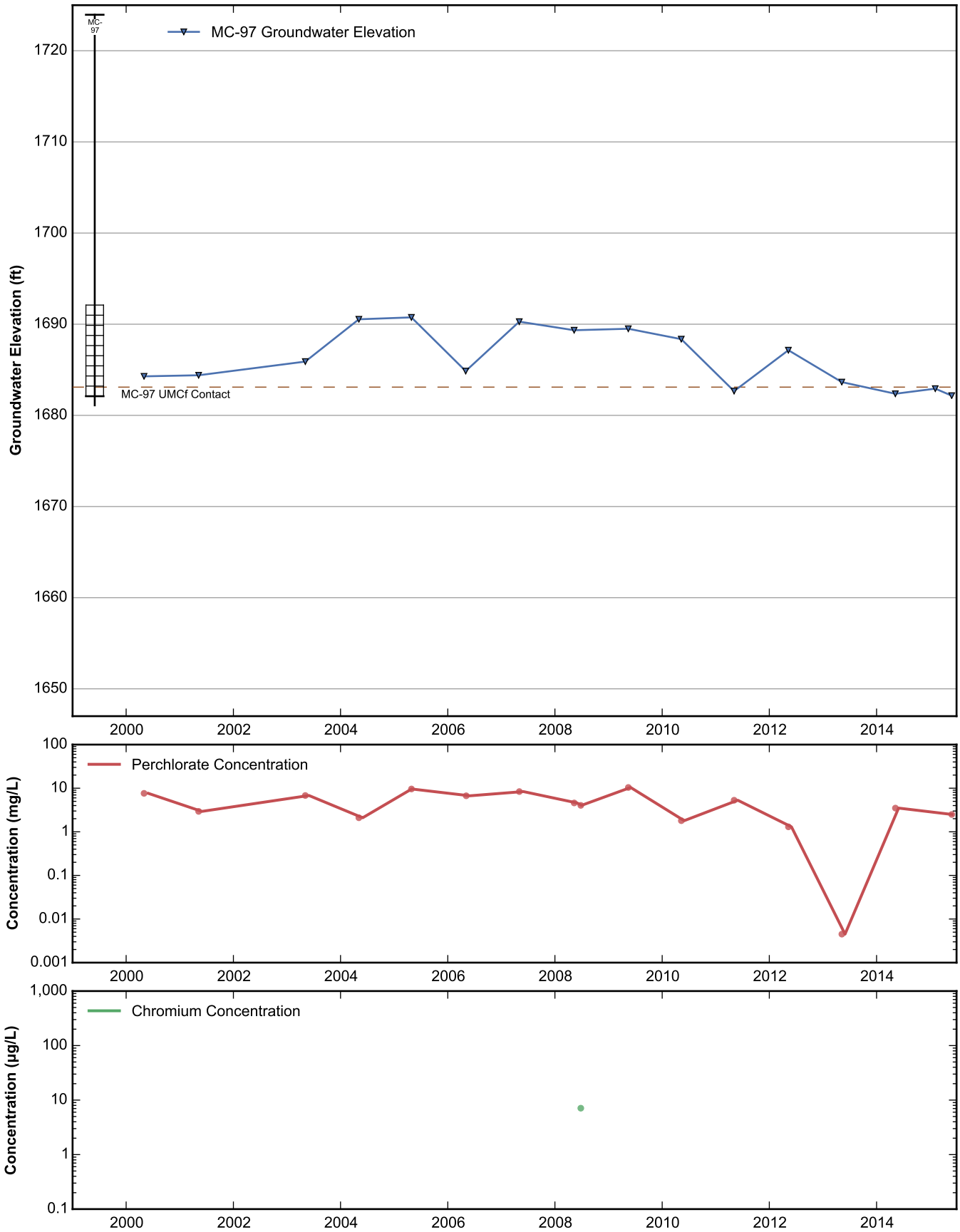

RAMBOLL ENVIRON

Data Sheet for Well MC-97
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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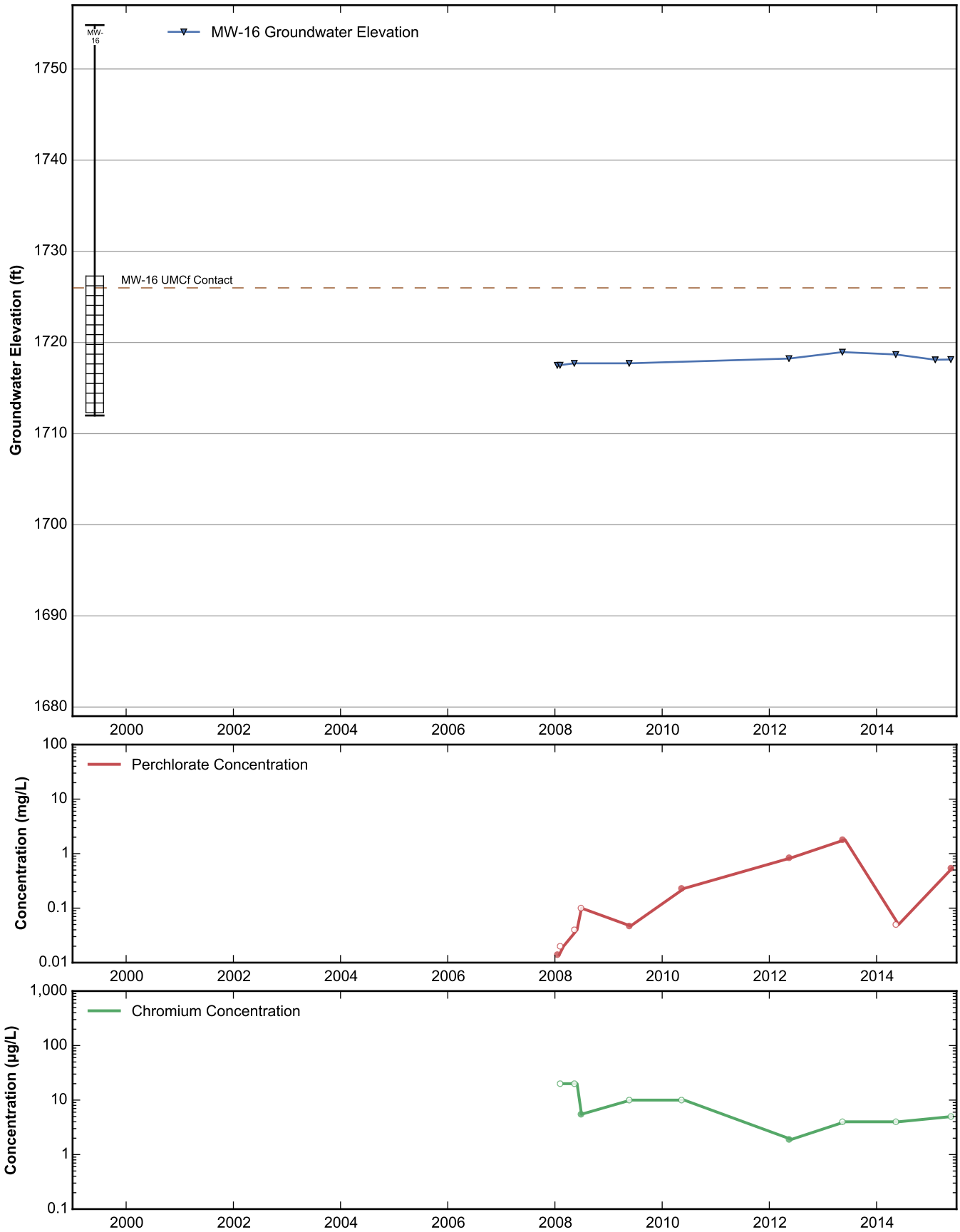
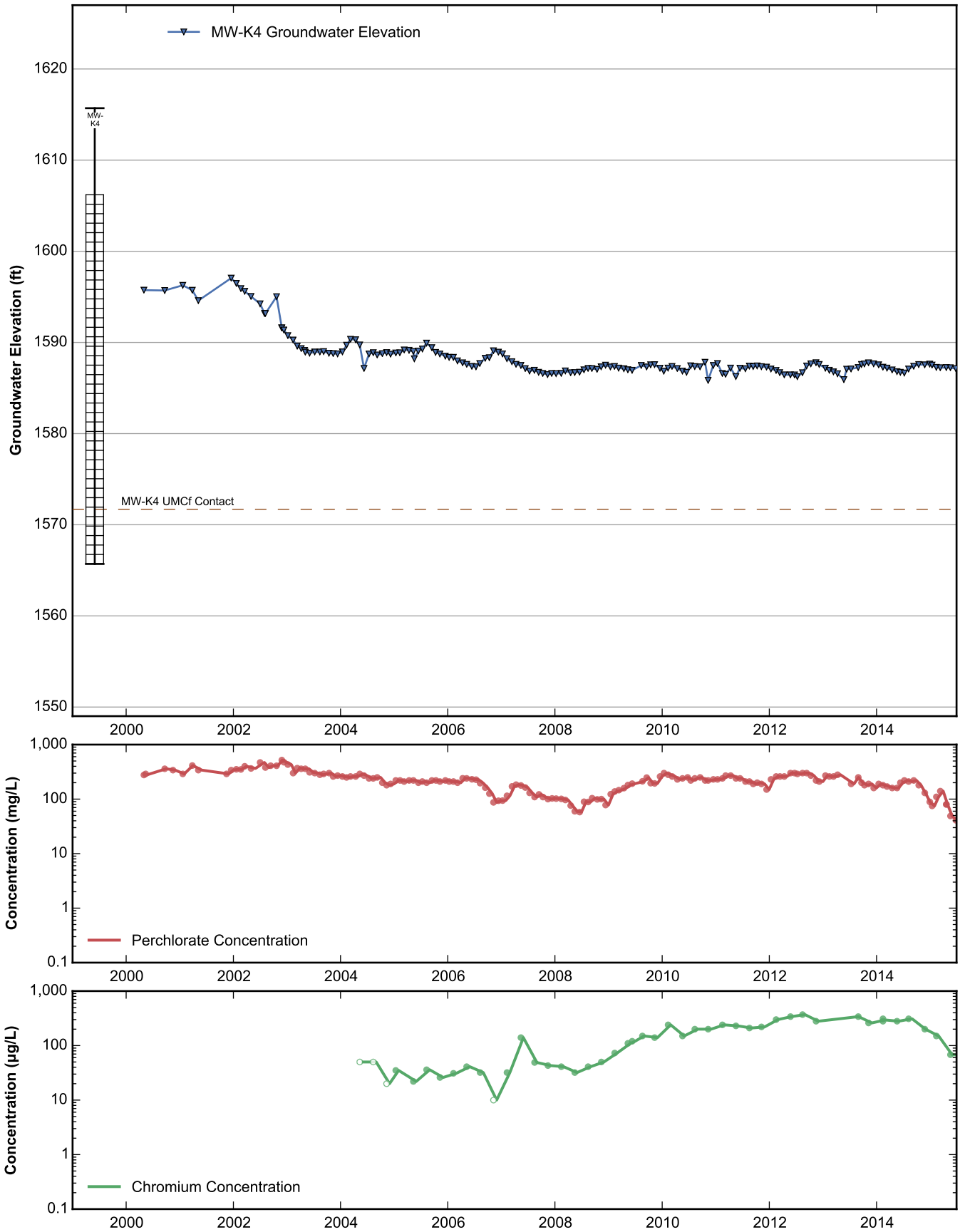


RAMBOLL ENVIRON

Data Sheet for Well MW-16
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

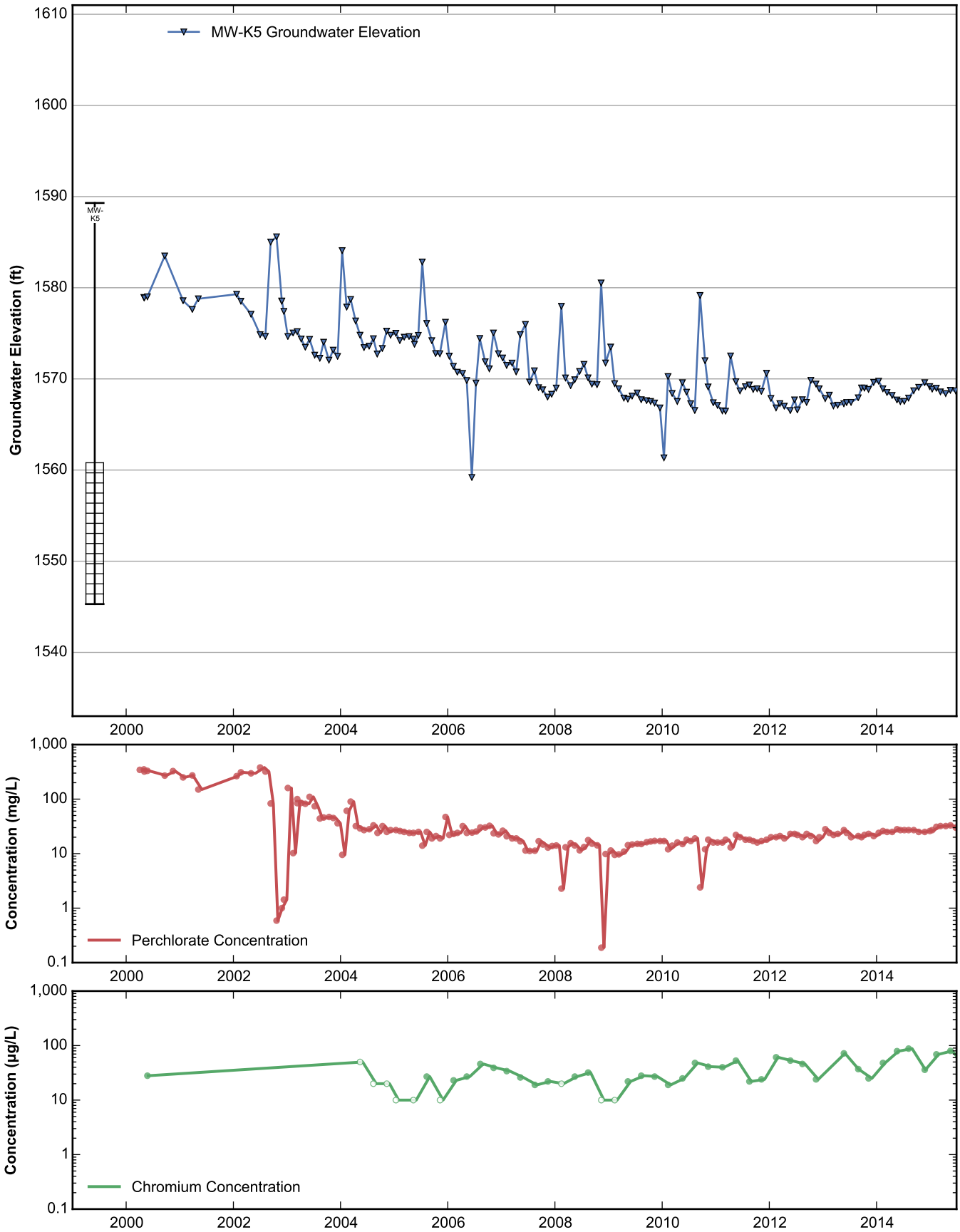


RAMBOLL ENVIRON

Data Sheet for Well MW-K4
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

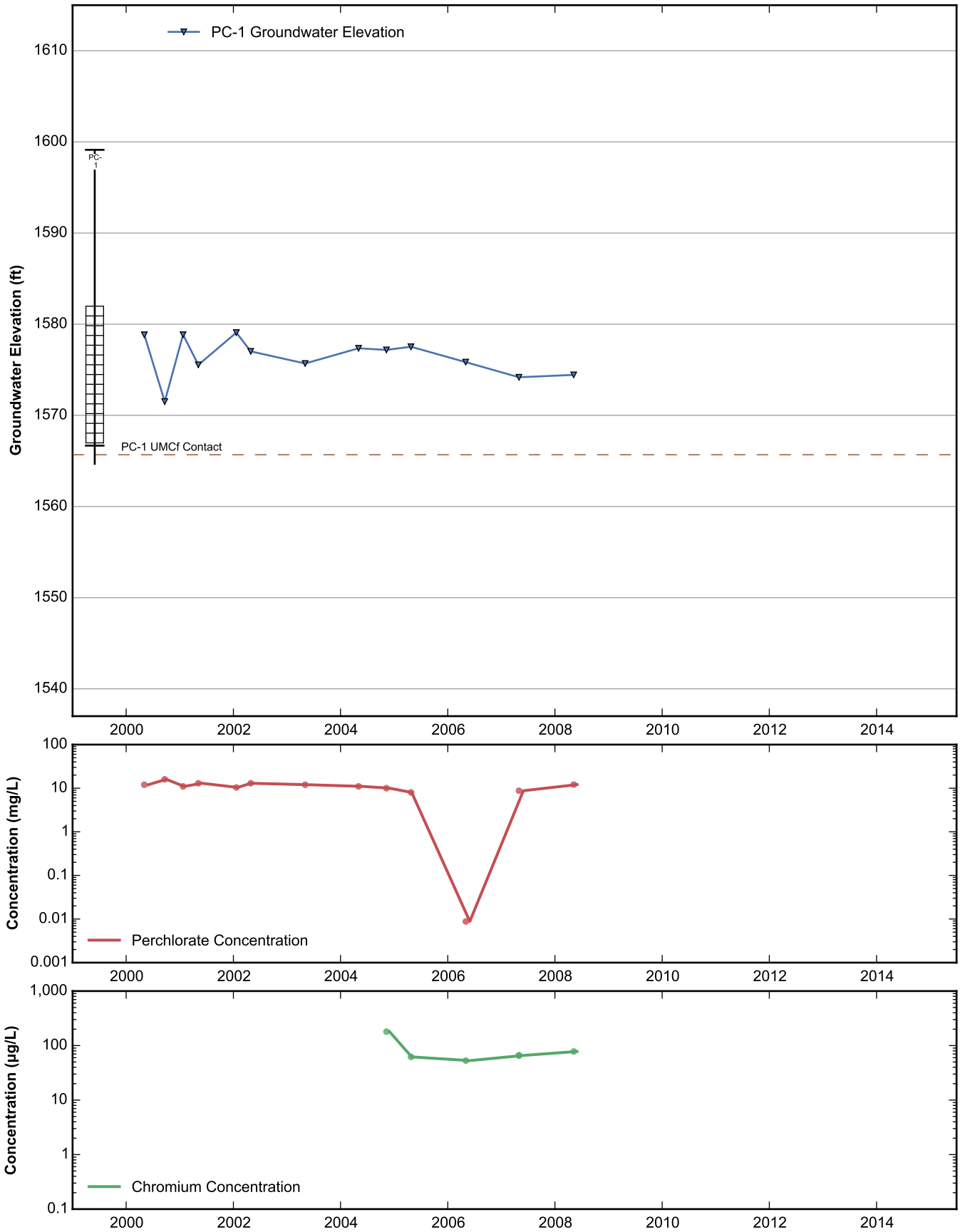
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well MW-K5
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

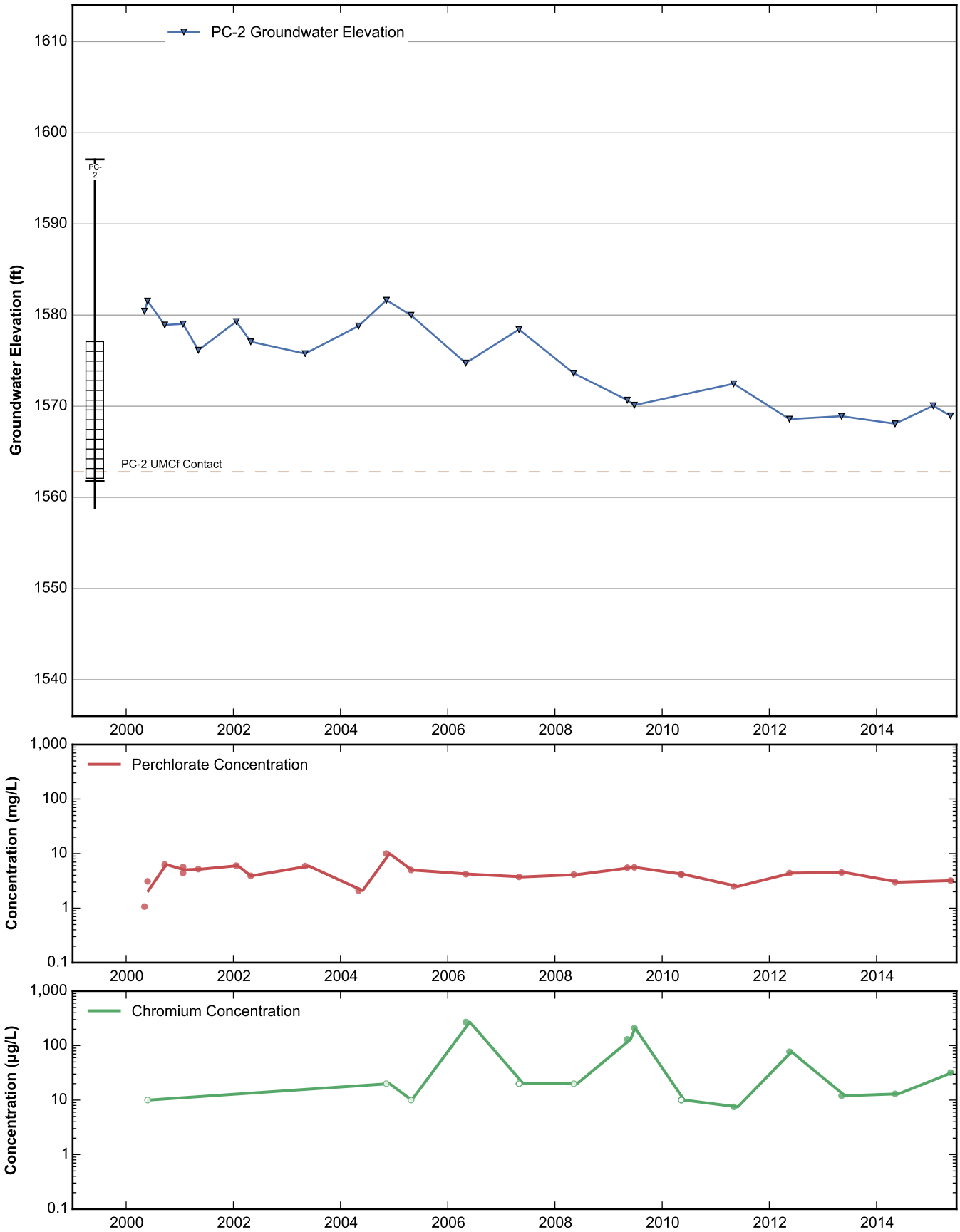


RAMBOLL ENVIRON

Data Sheet for Well PC-1
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

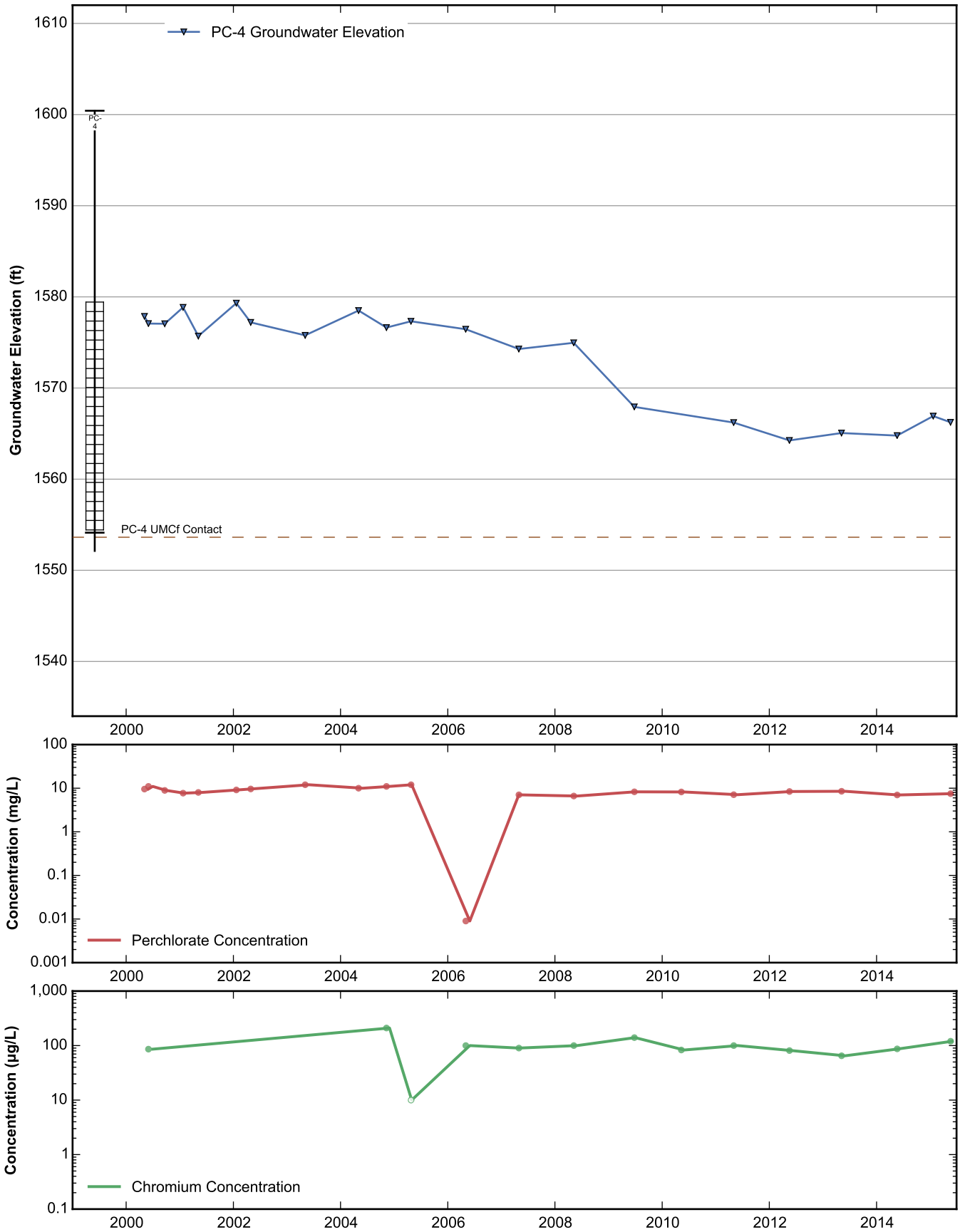


RAMBOLL ENVIRON

Data Sheet for Well PC-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

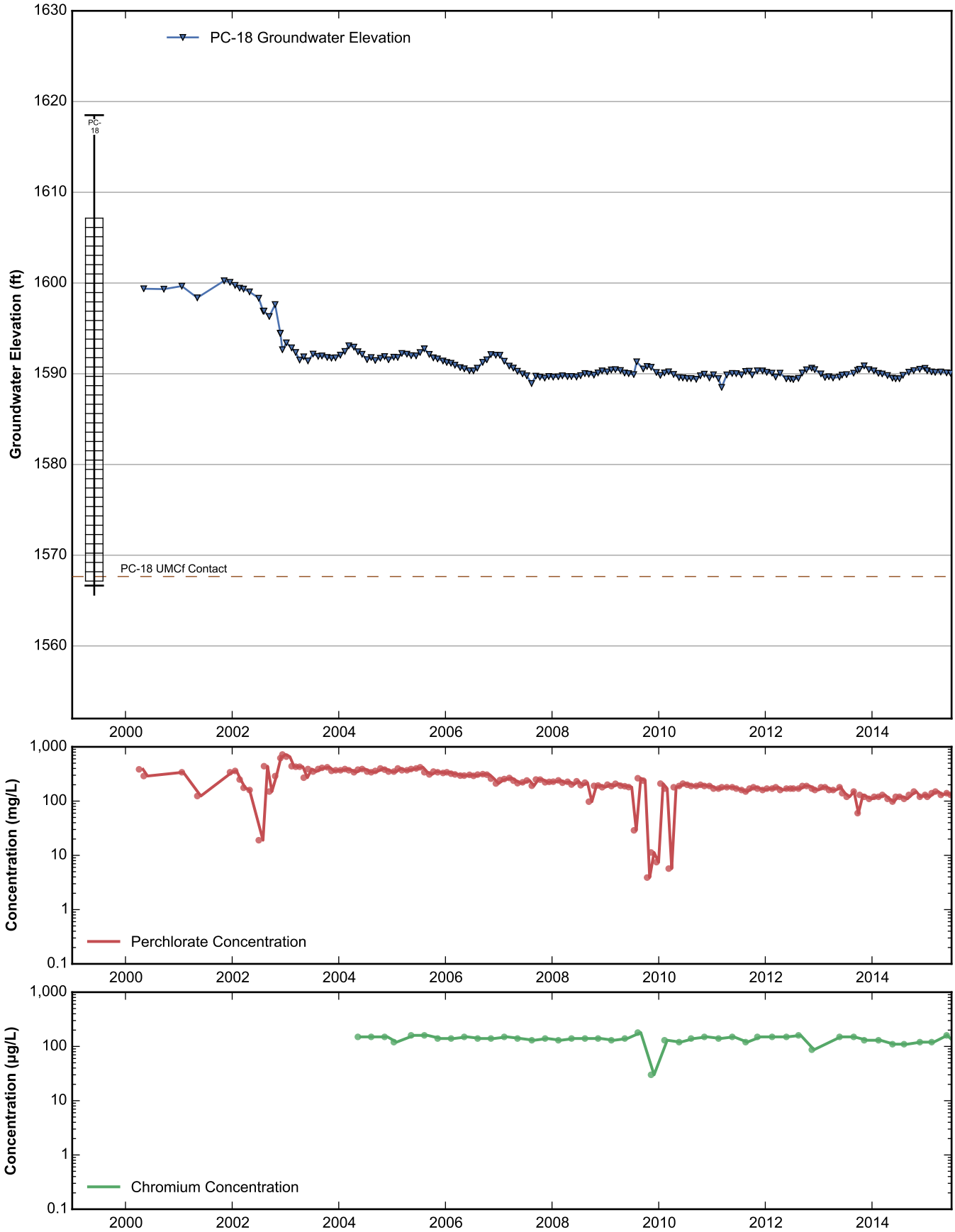


RAMBOLL ENVIRON

Data Sheet for Well PC-4
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

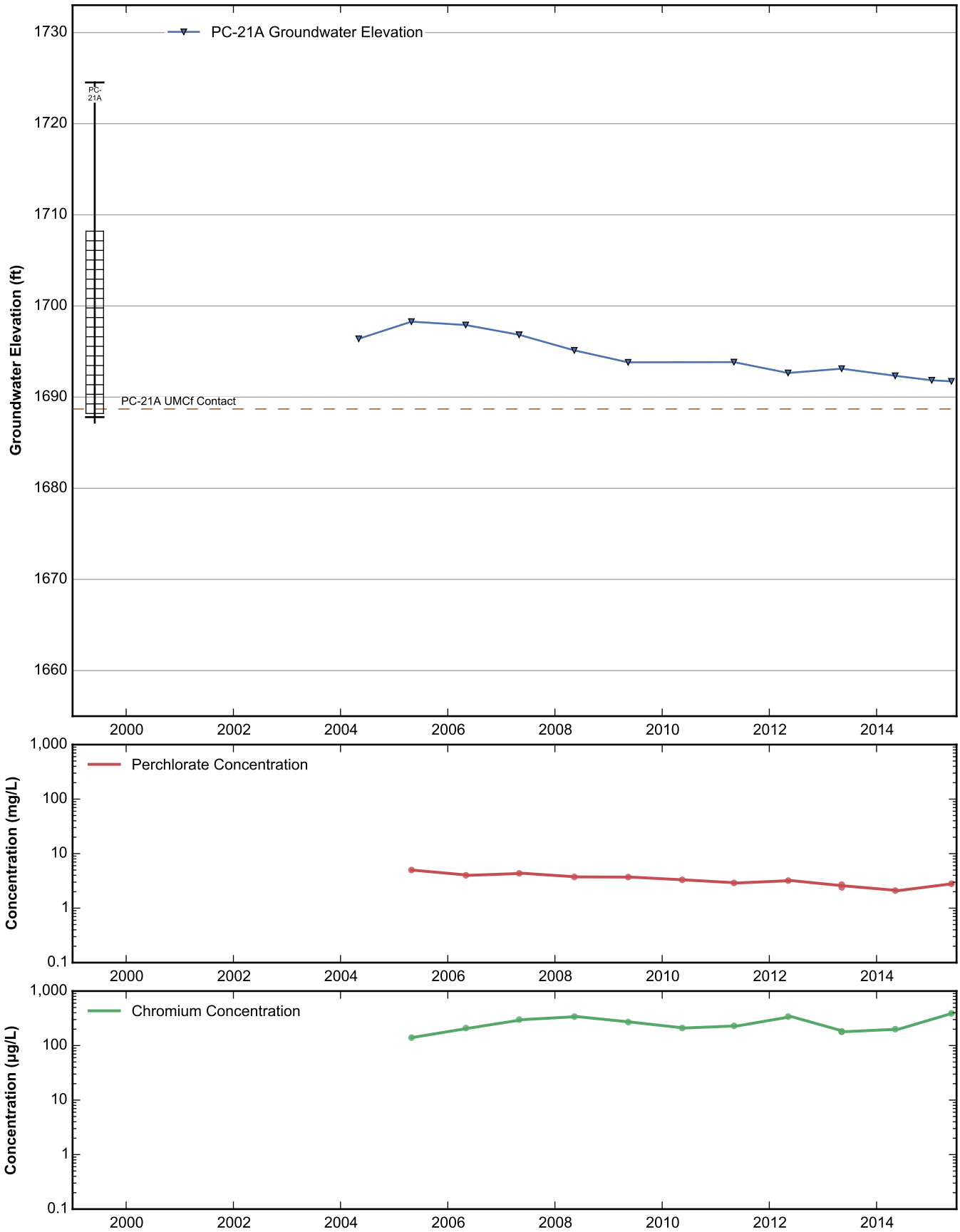


RAMBOLL ENVIRON

Data Sheet for Well PC-18
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

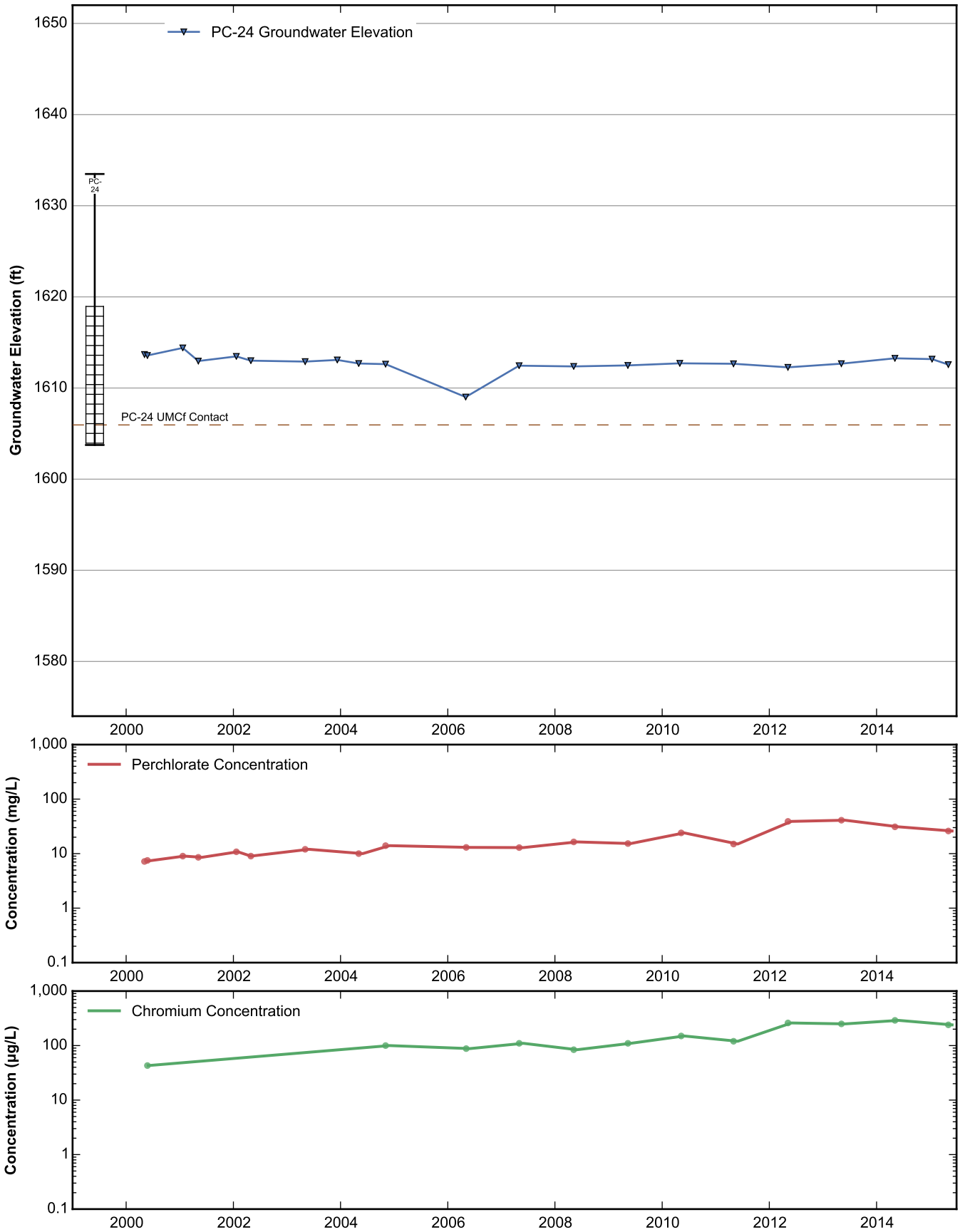
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-21A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:



RAMBOLL ENVIRON

Data Sheet for Well PC-24
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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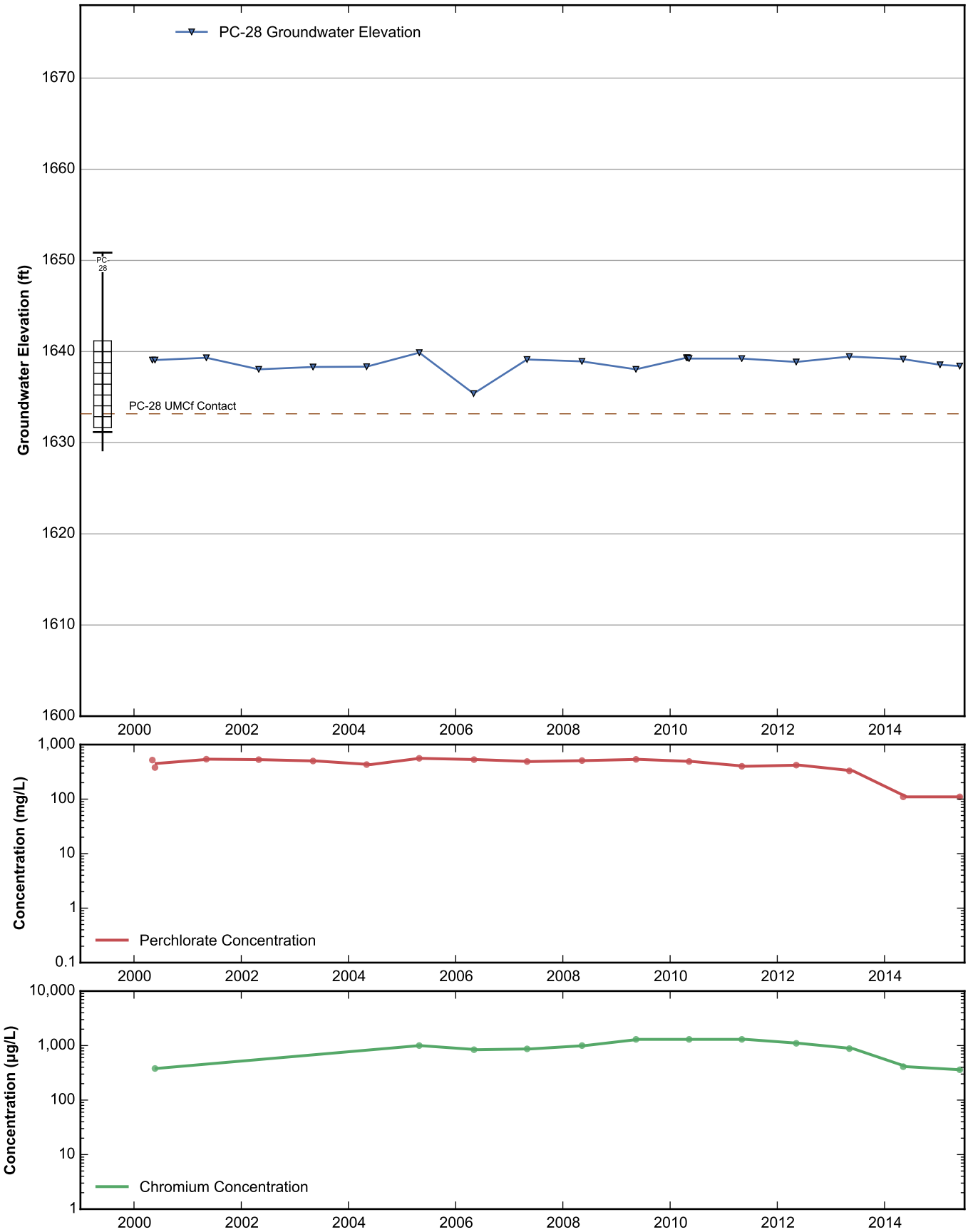

RAMBOLL ENVIRON

Data Sheet for Well PC-28
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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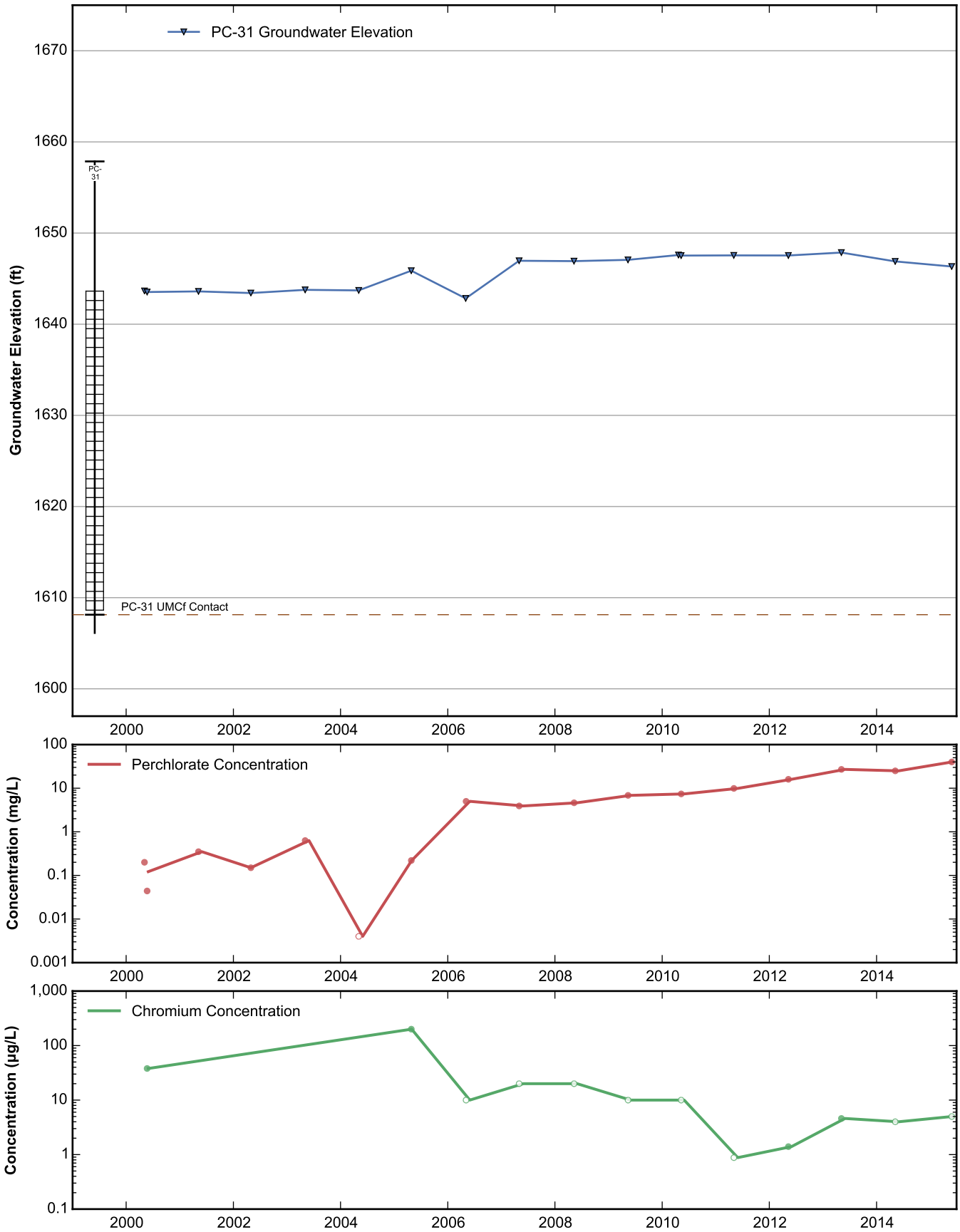
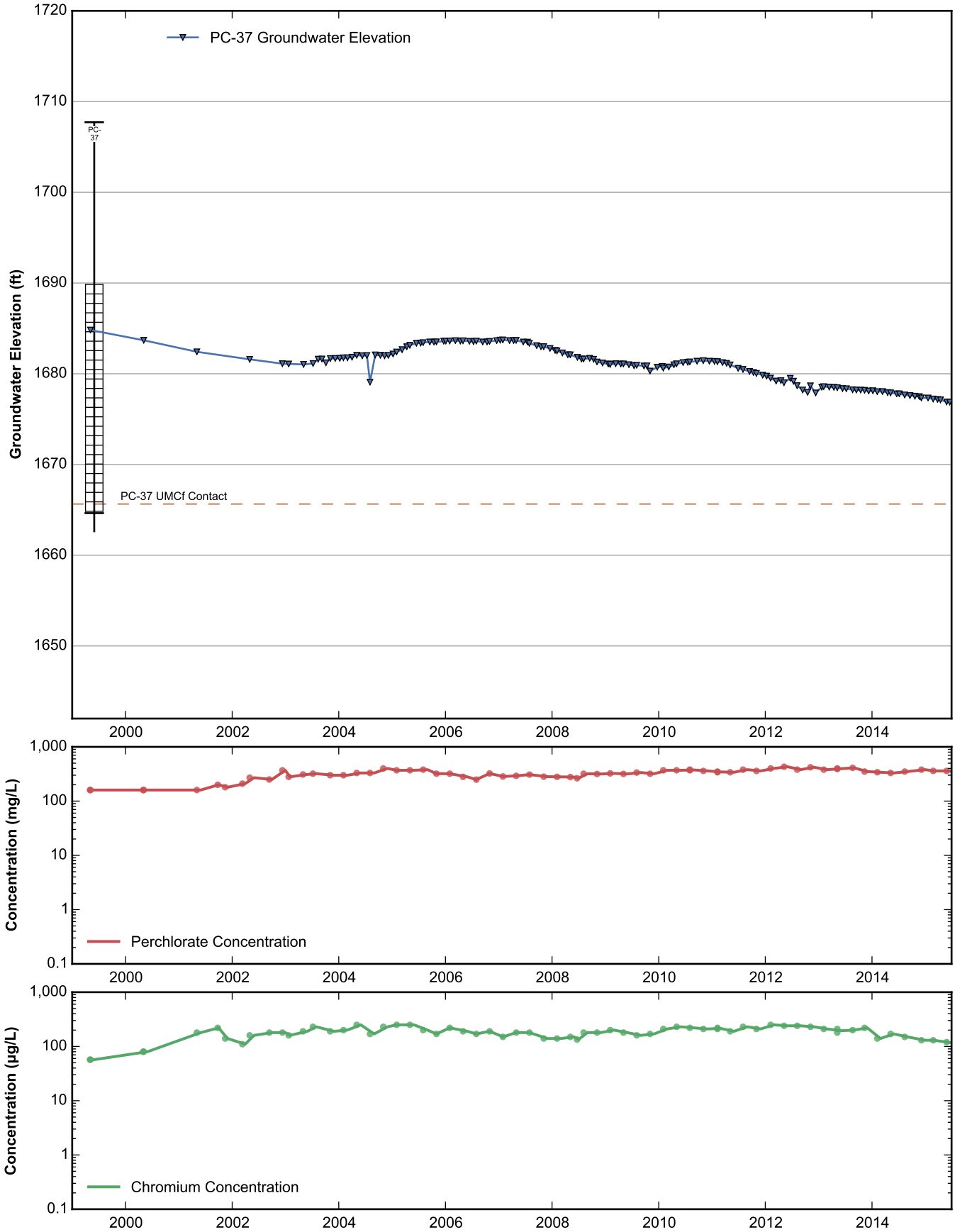


RAMBOLL ENVIRON

Data Sheet for Well PC-31
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

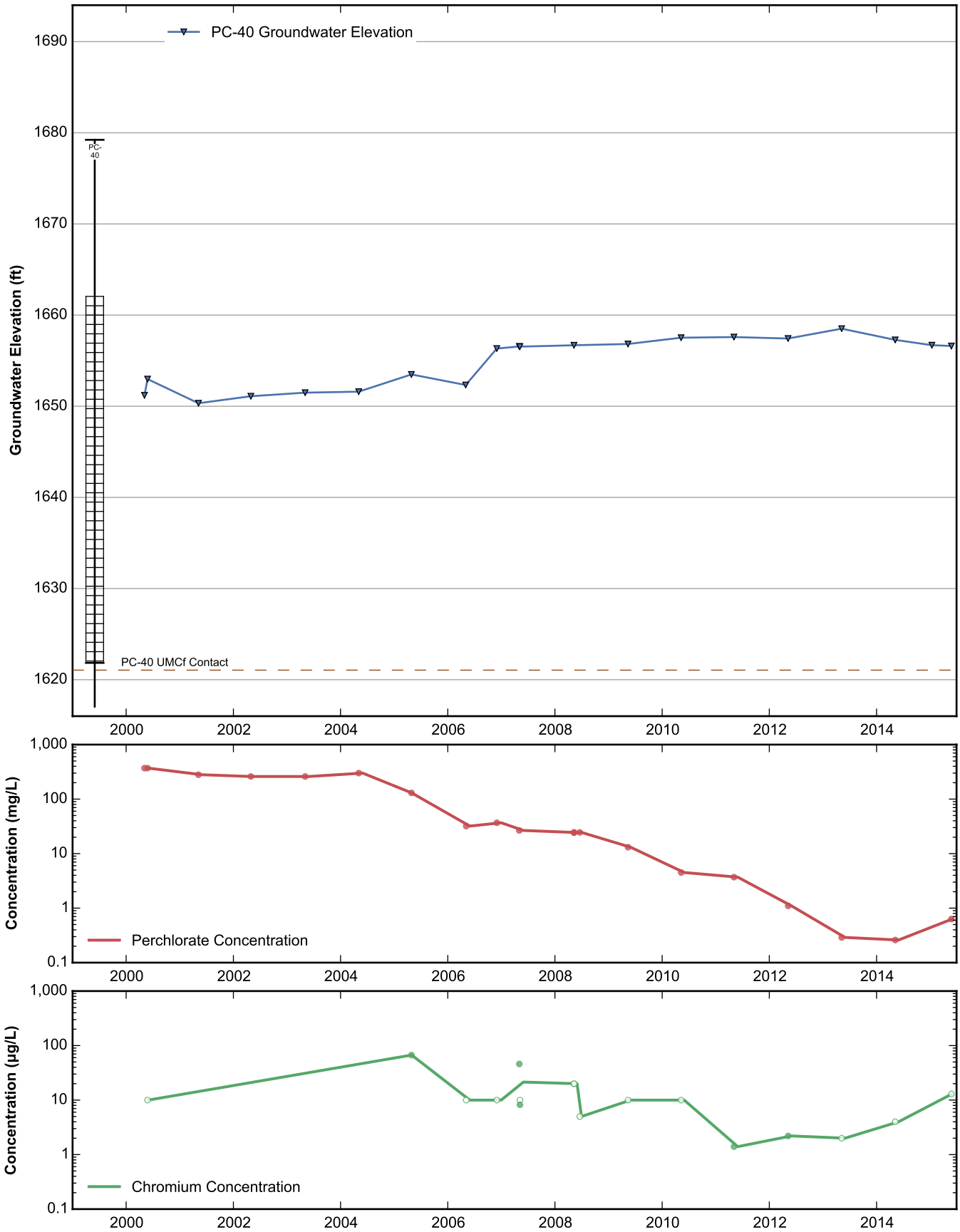
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-37
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

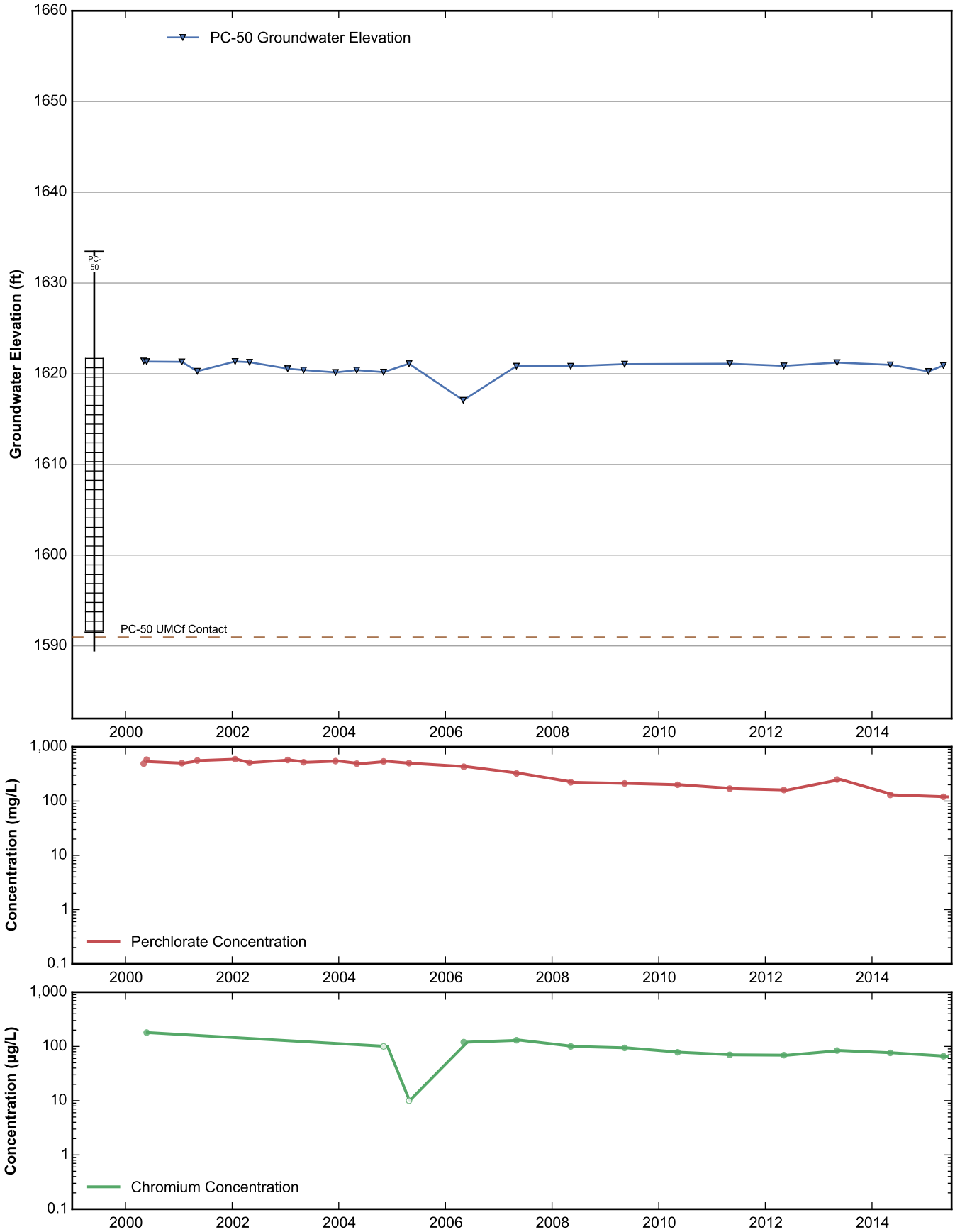


RAMBOLL ENVIRON

Data Sheet for Well PC-40
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

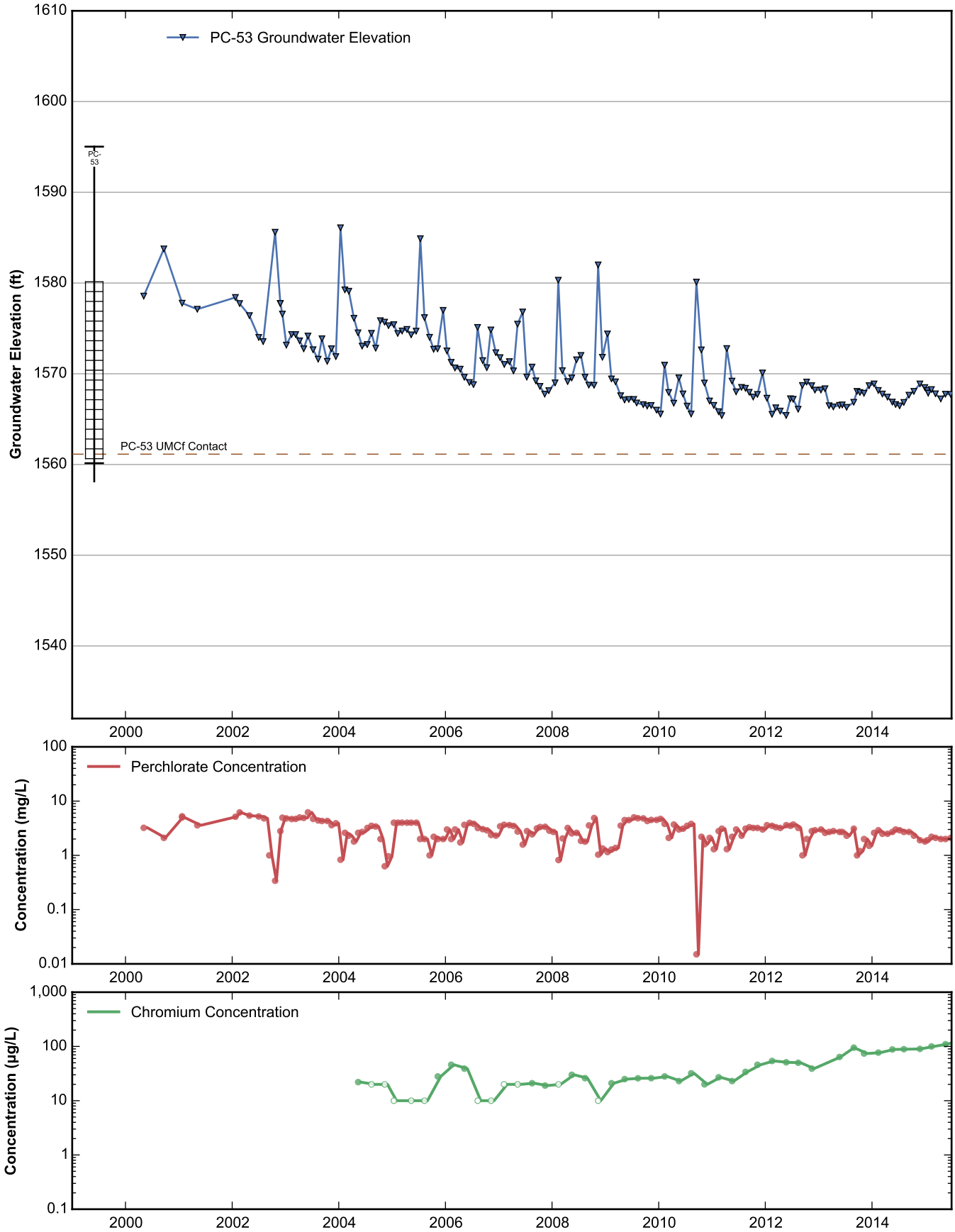


RAMBOLL ENVIRON

Data Sheet for Well PC-50
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

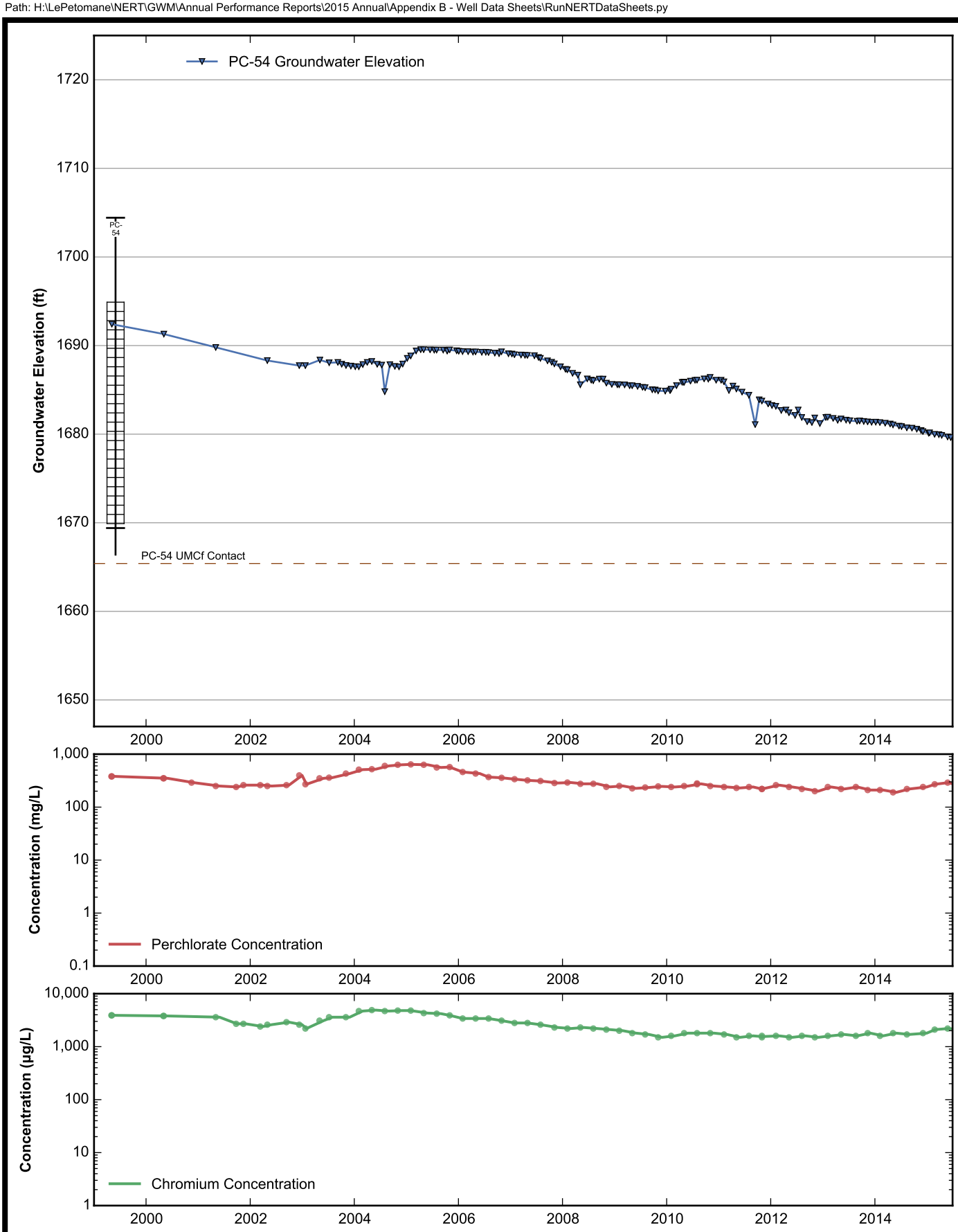


RAMBOLL ENVIRON

Data Sheet for Well PC-53
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

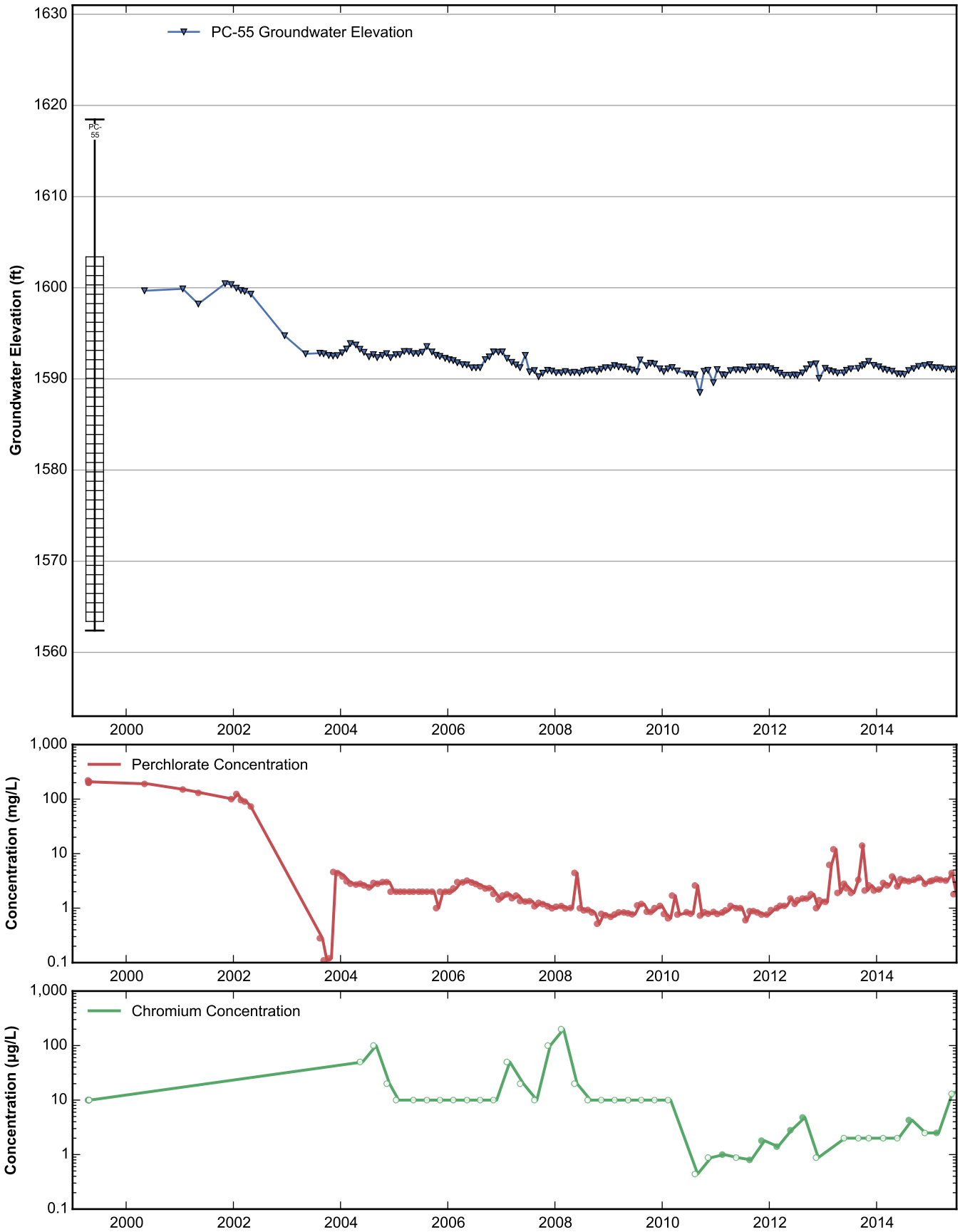


RAMBOLL ENVIRON

Data Sheet for Well PC-54
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

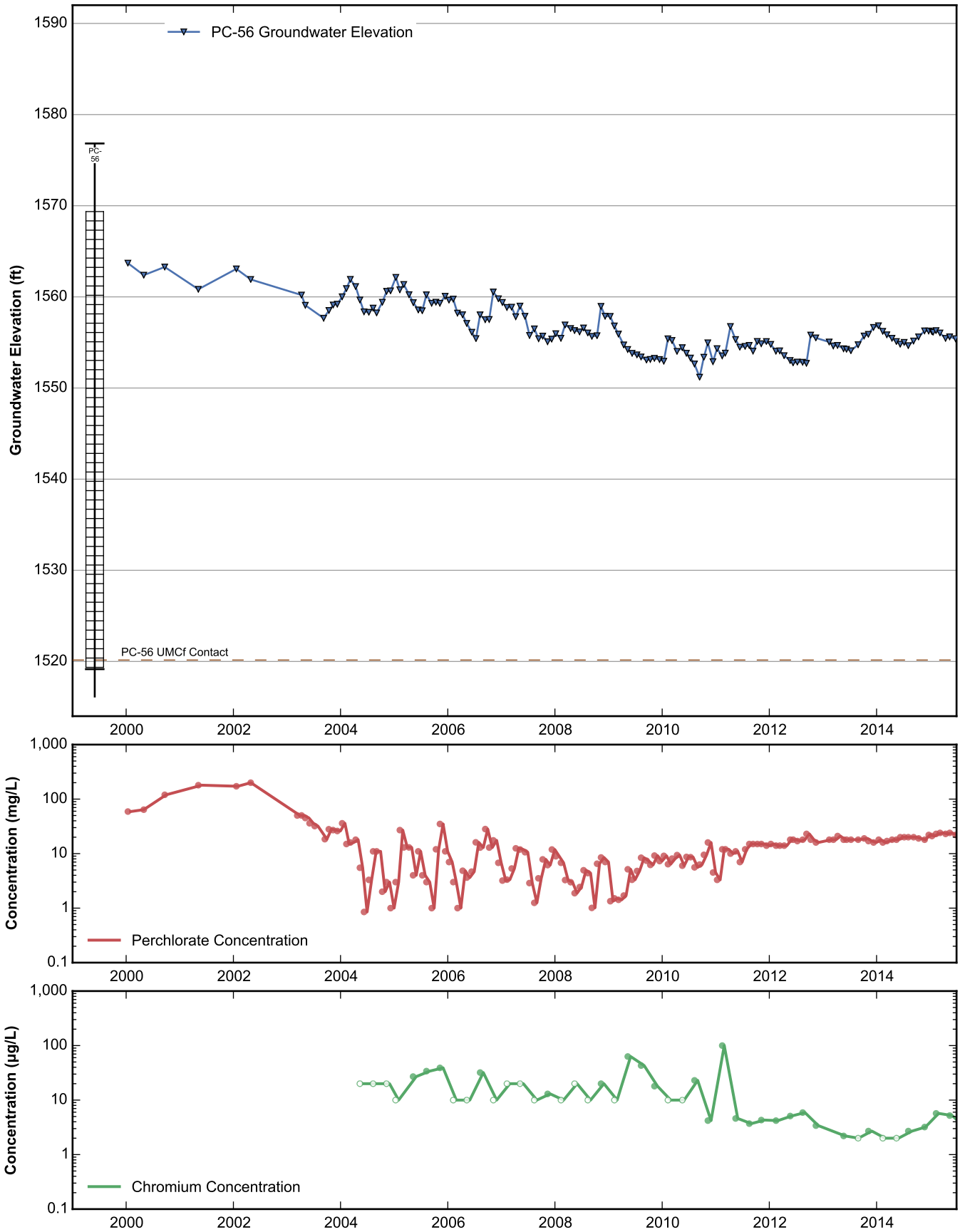


RAMBOLL ENVIRON

Data Sheet for Well PC-55
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

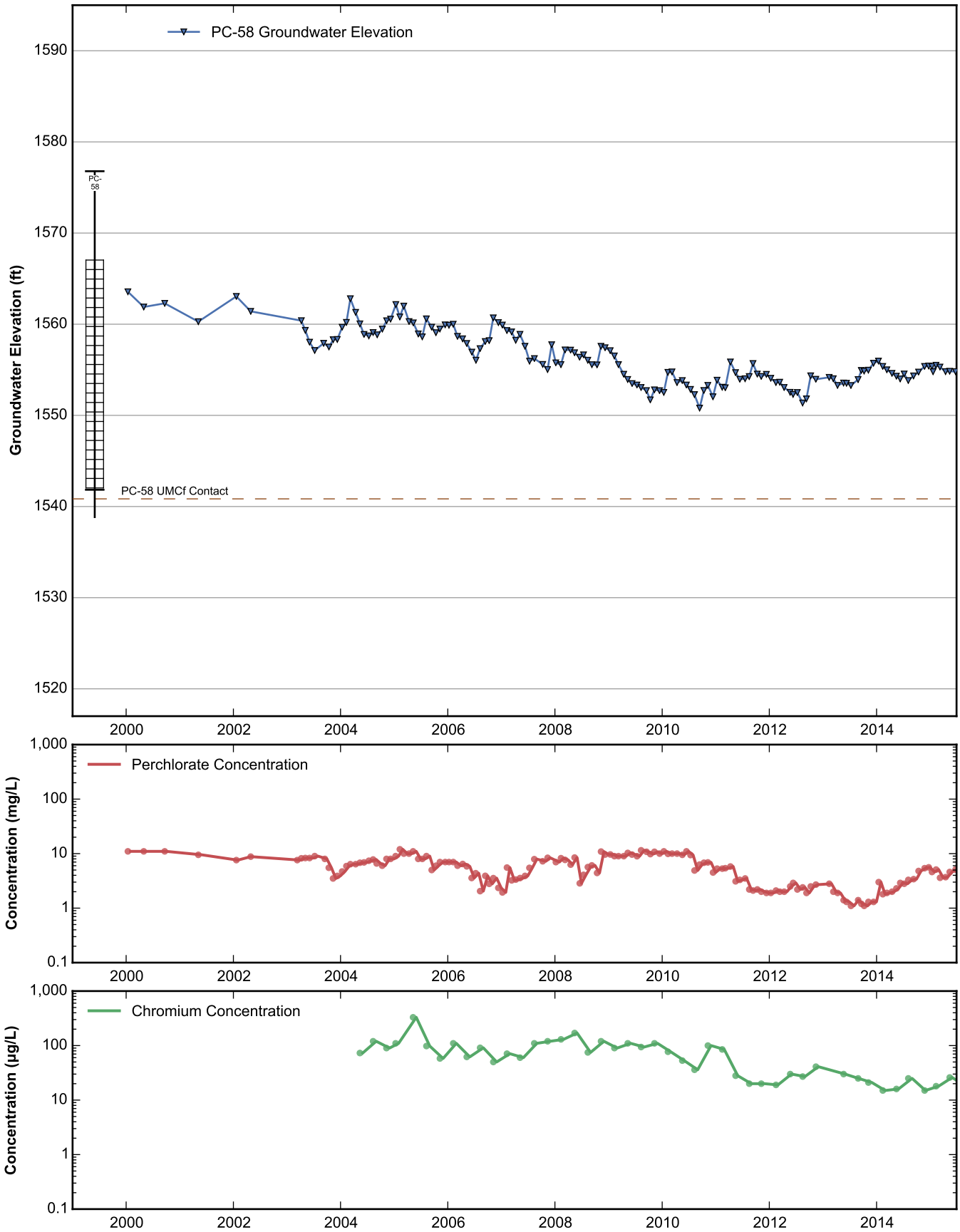
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-56
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:



RAMBOLL ENVIRON

Data Sheet for Well PC-58
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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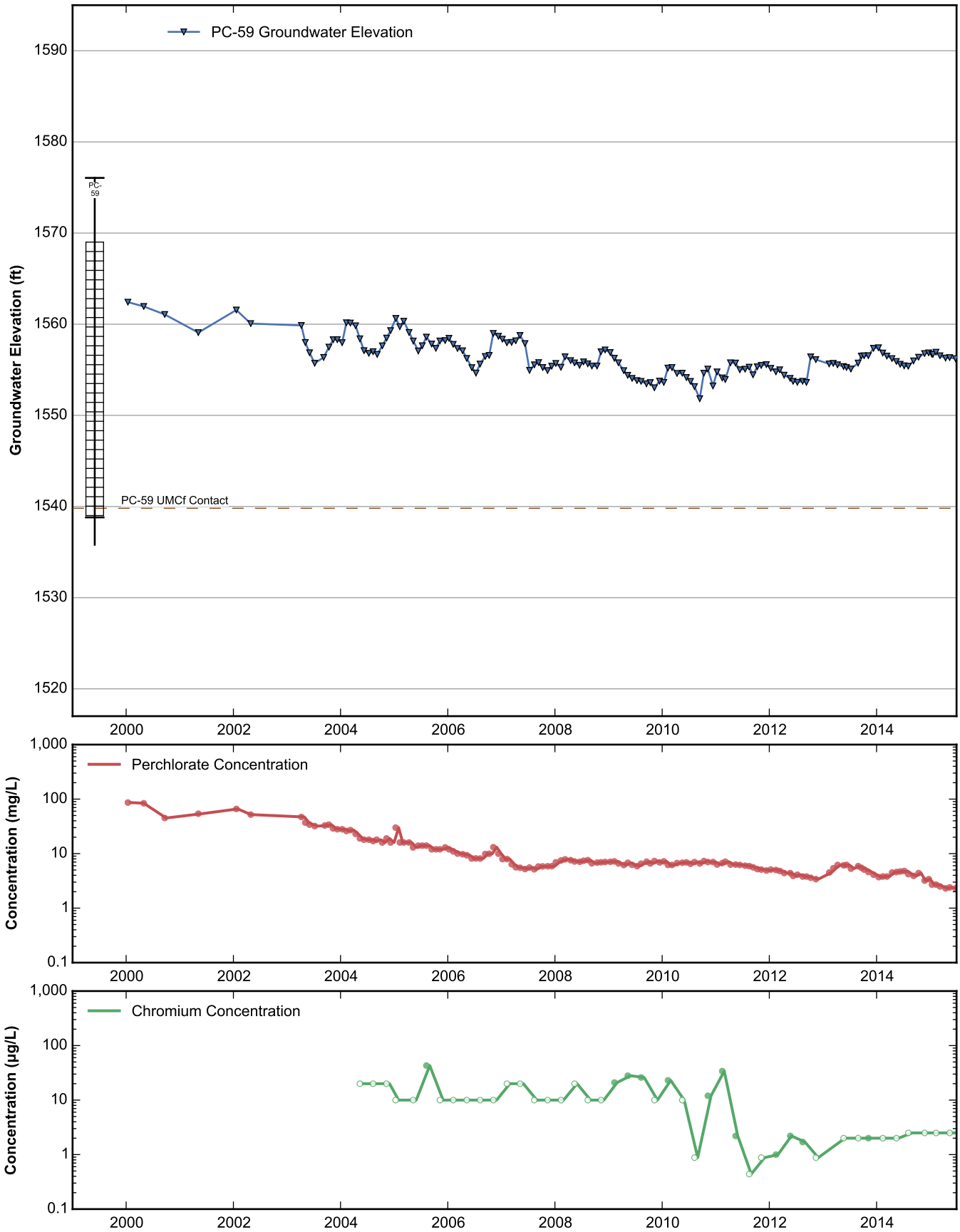

RAMBOLL ENVIRON

Data Sheet for Well PC-59
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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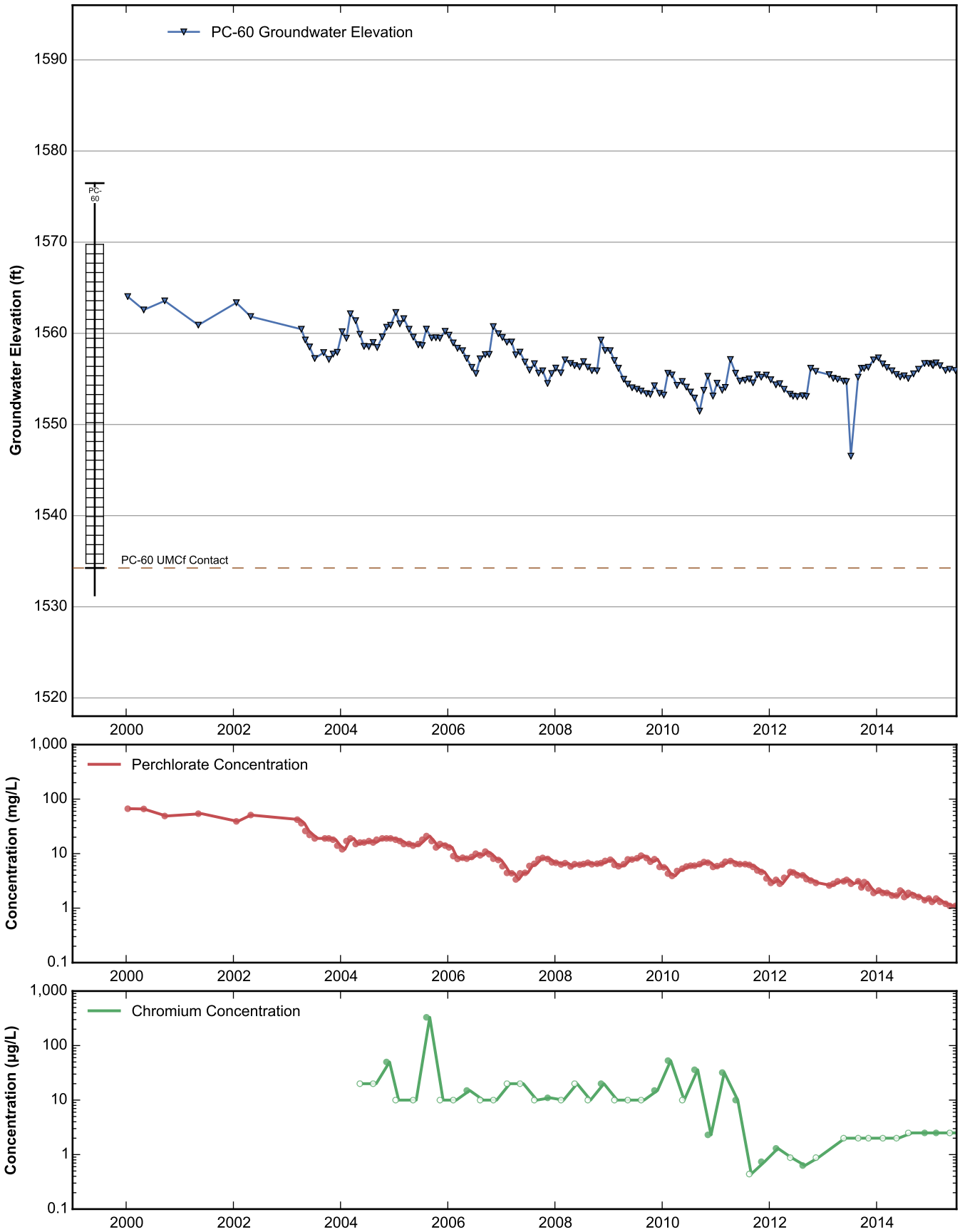

RAMBOLL ENVIRON

Data Sheet for Well PC-60
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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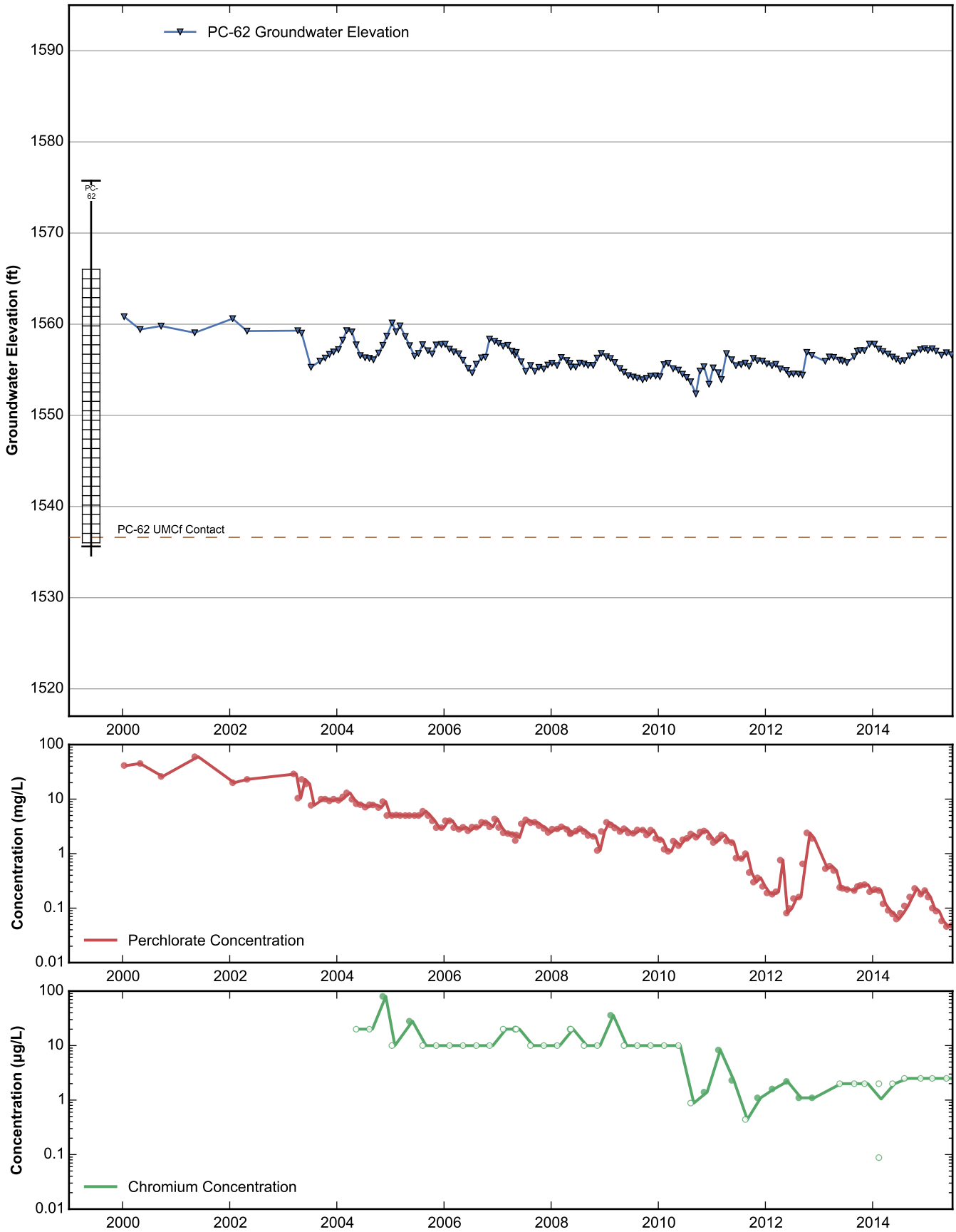
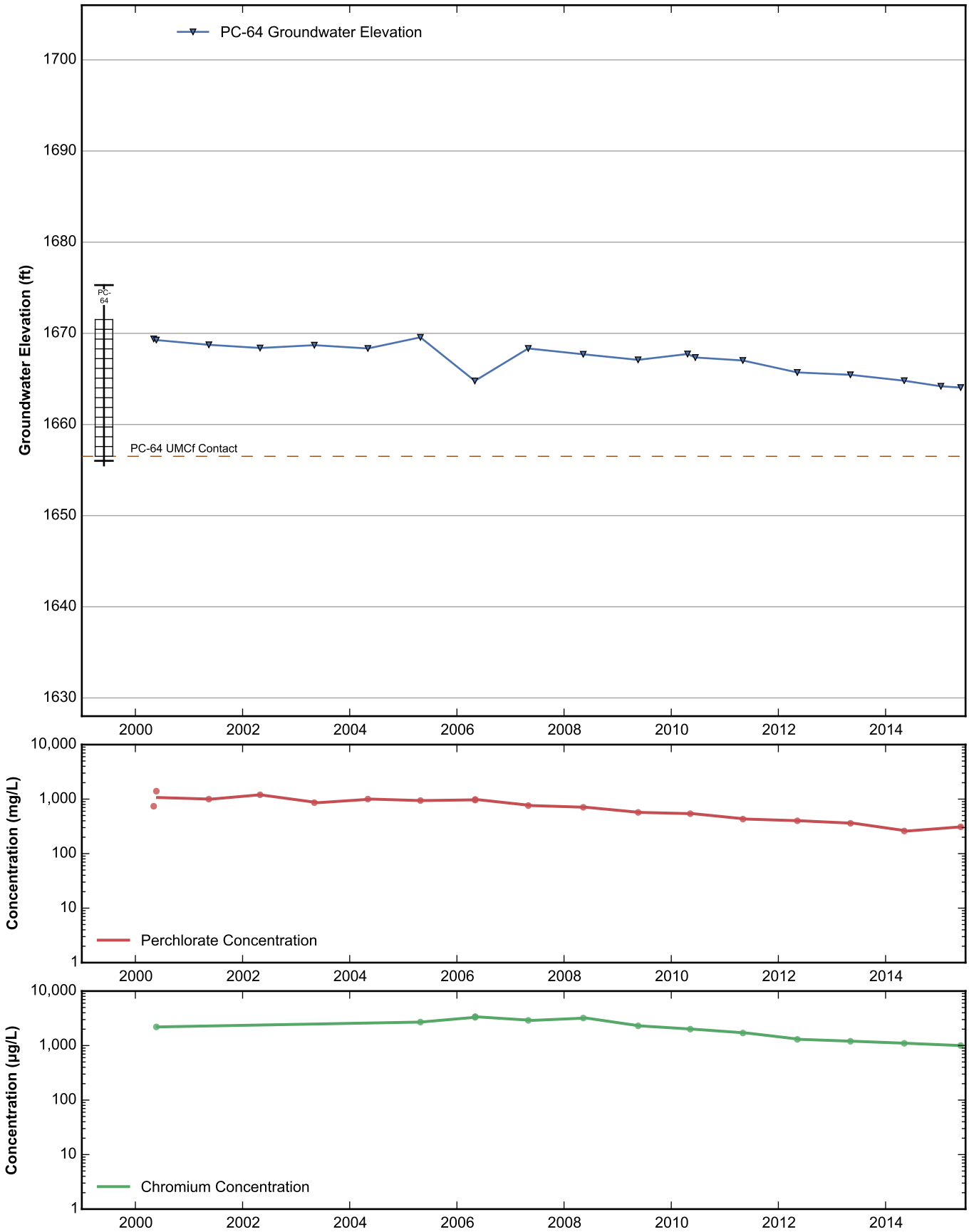


RAMBOLL ENVIRON

Data Sheet for Well PC-62
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

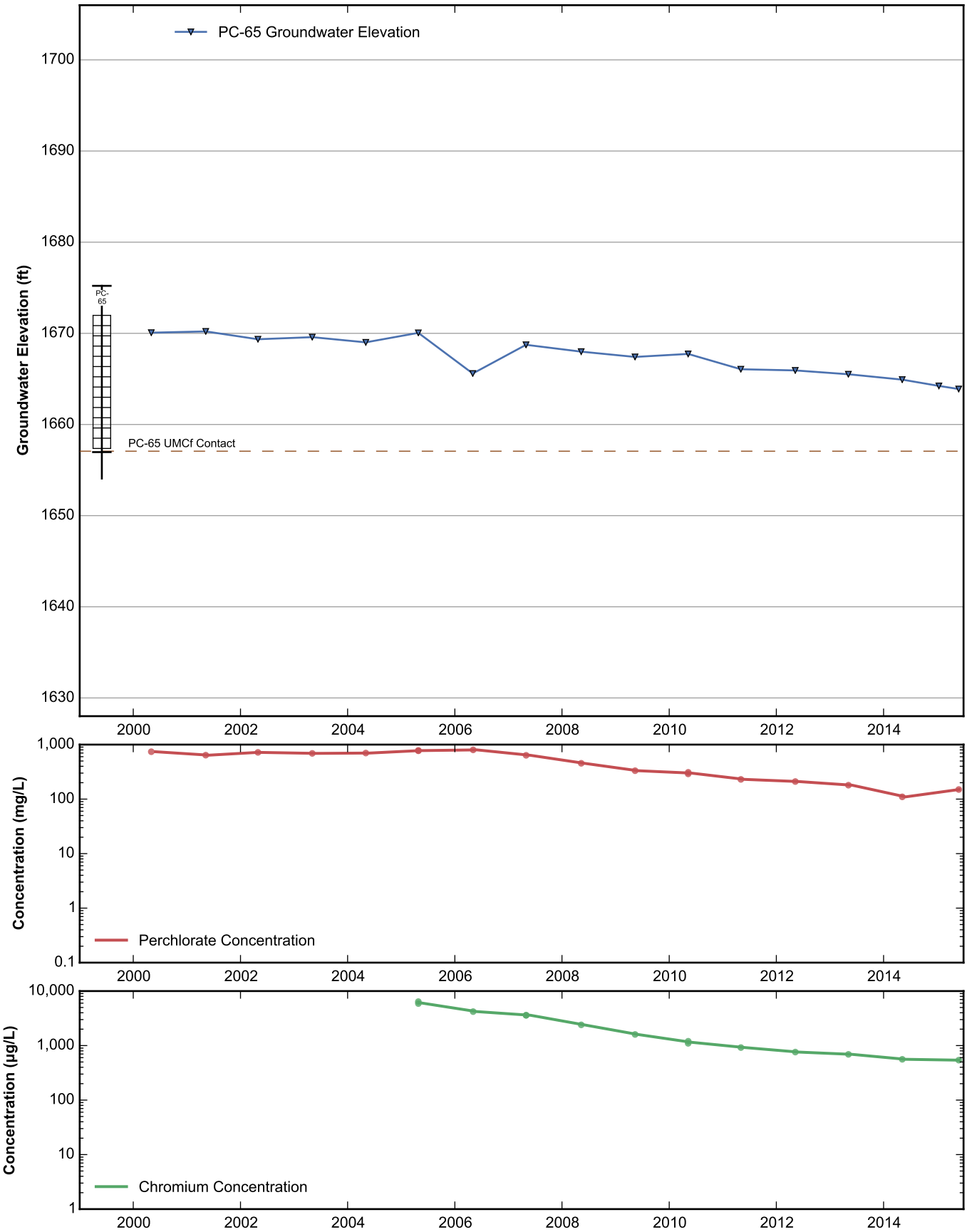


RAMBOLL ENVIRON

Data Sheet for Well PC-64
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

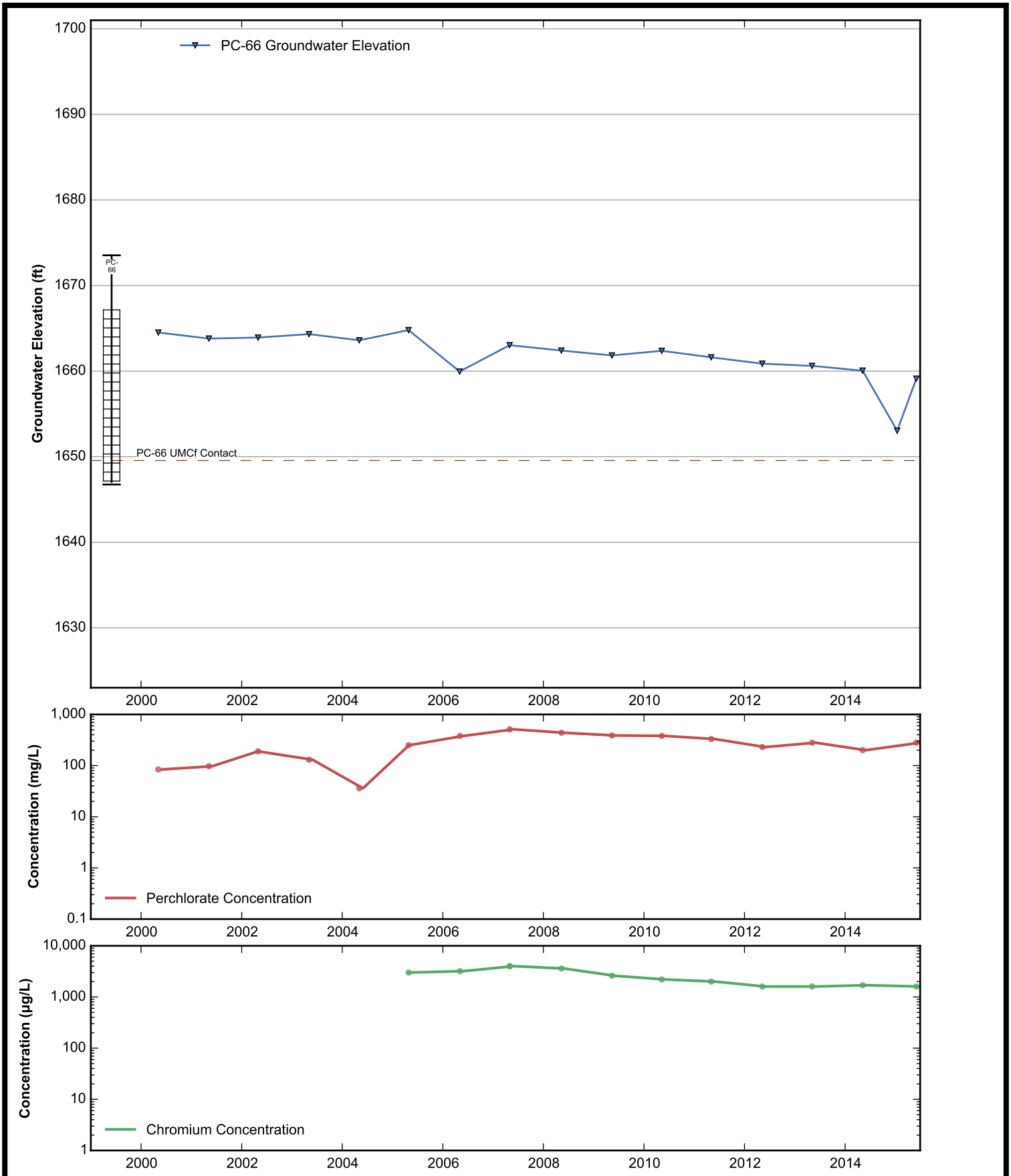


RAMBOLL ENVIRON

Data Sheet for Well PC-65
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

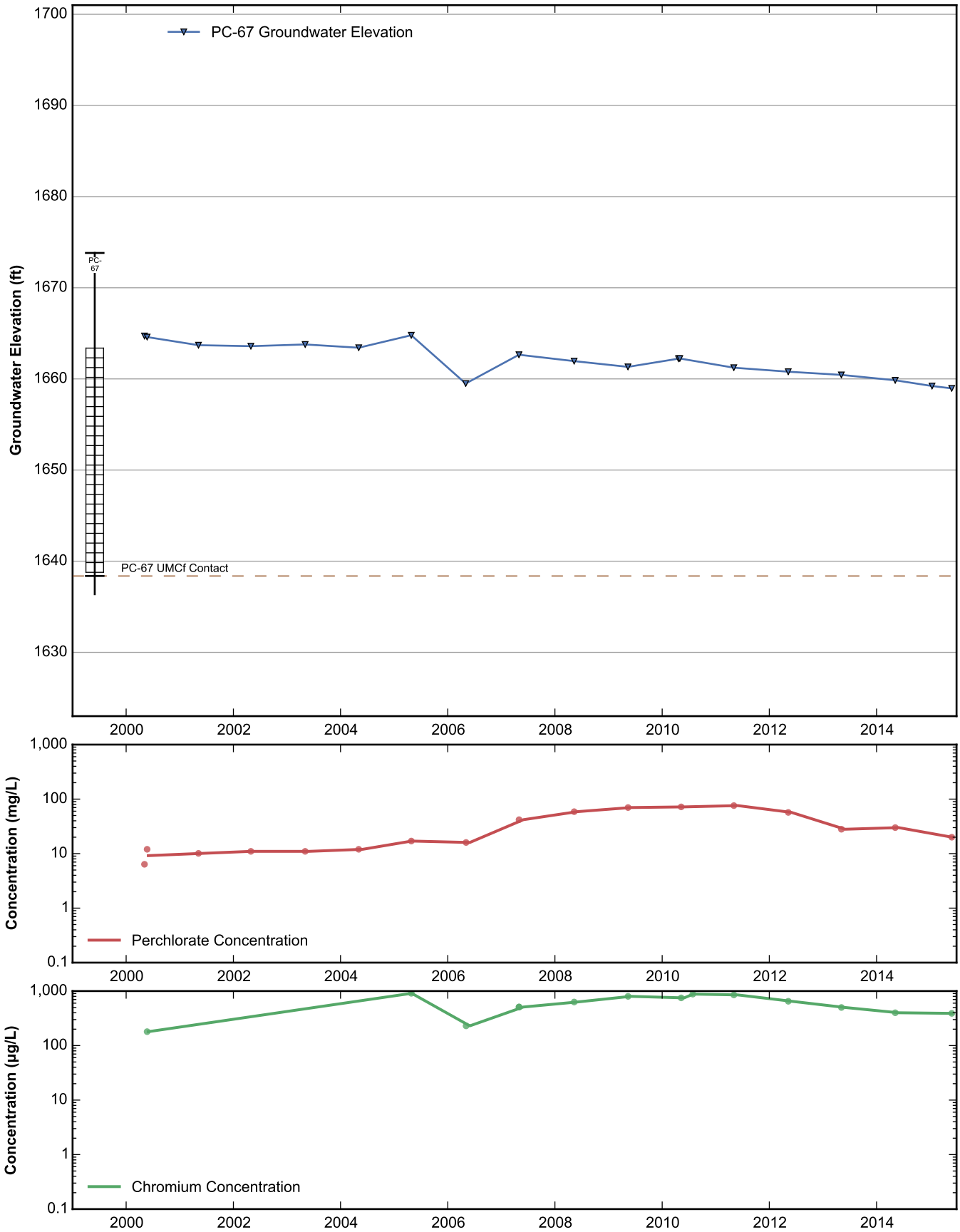


RAMBOLL ENVIRON

Data Sheet for Well PC-66
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

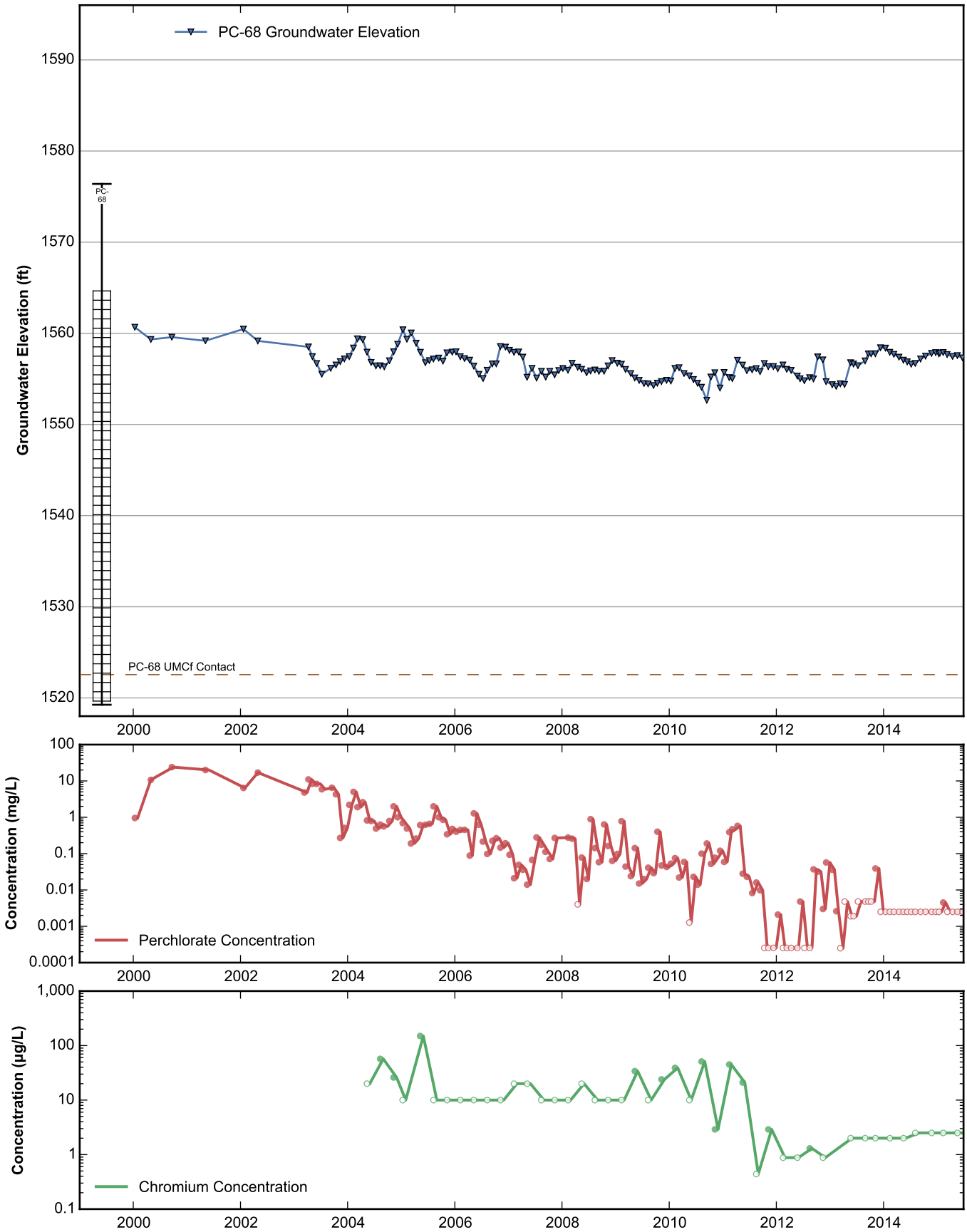
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-67
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

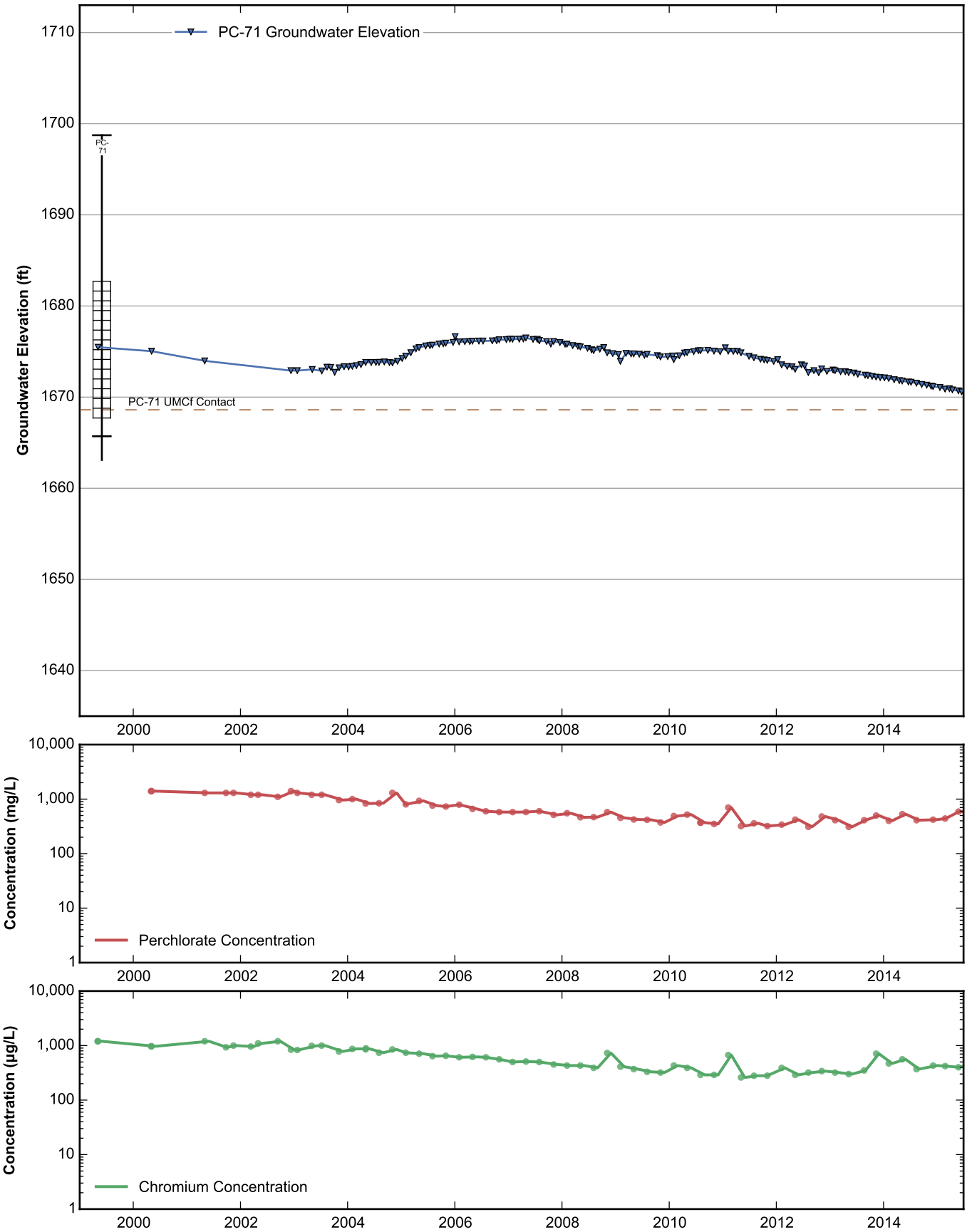


RAMBOLL ENVIRON

Data Sheet for Well PC-68
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

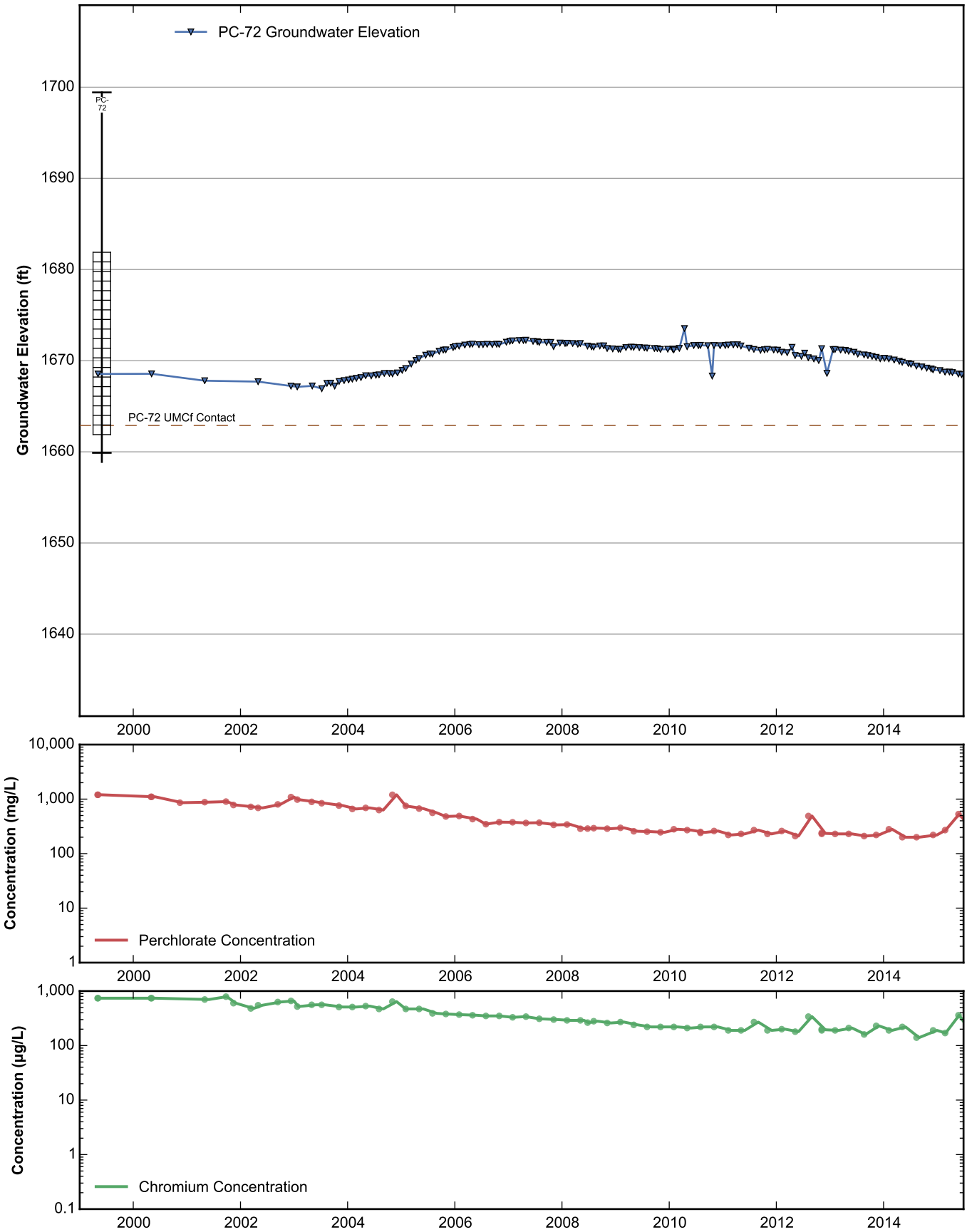
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-71
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

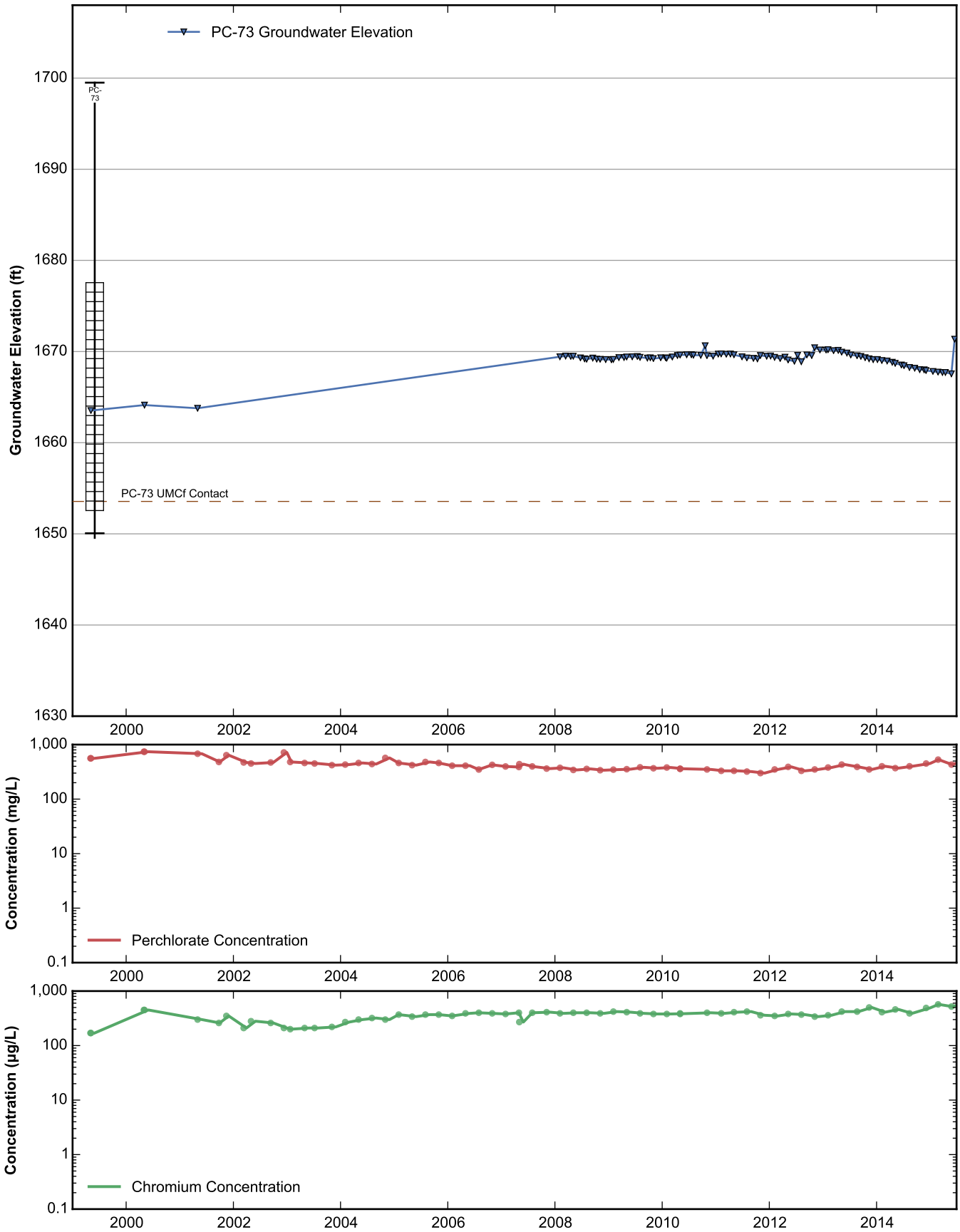


RAMBOLL ENVIRON

Data Sheet for Well PC-72
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

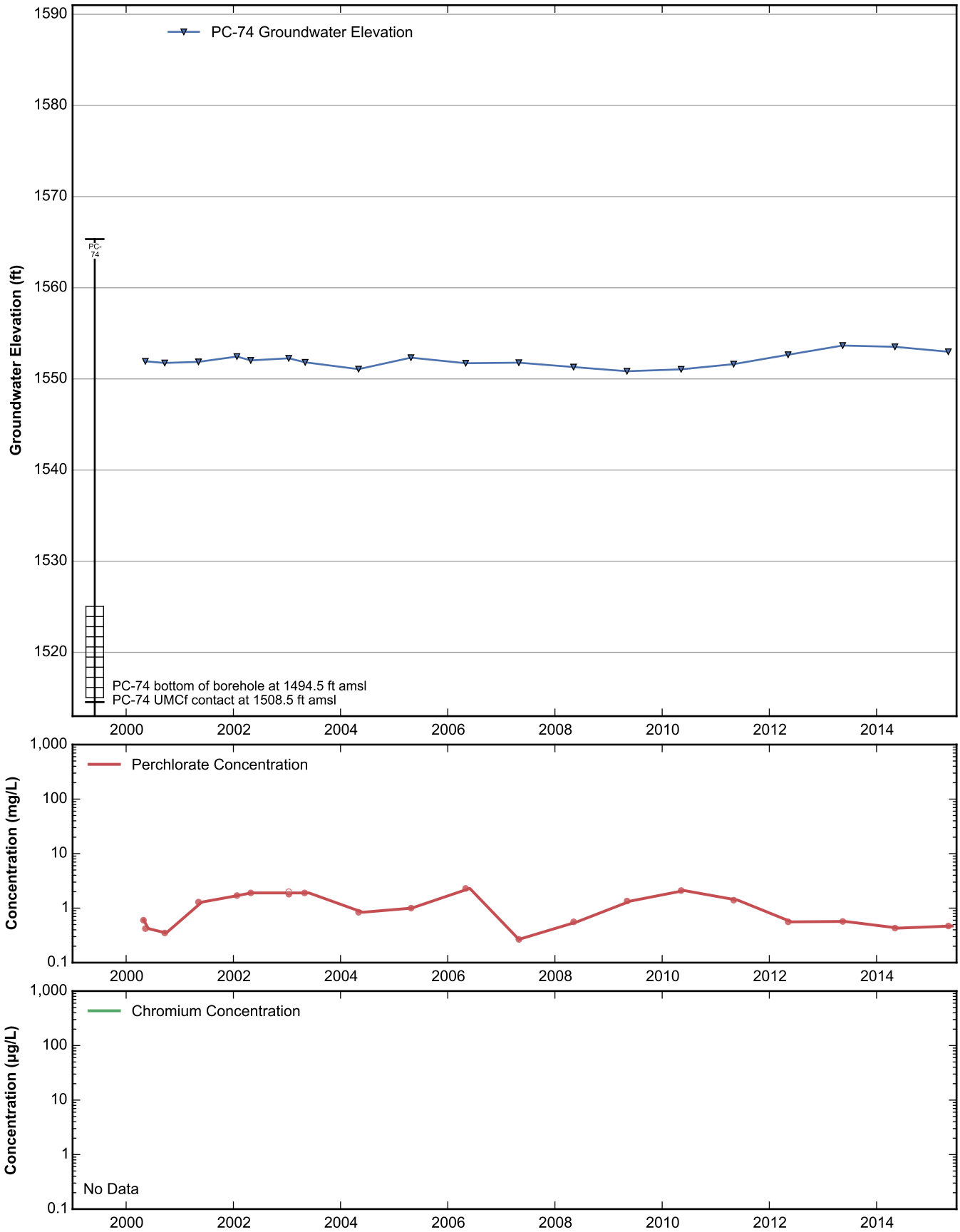


RAMBOLL ENVIRON

Data Sheet for Well PC-73
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

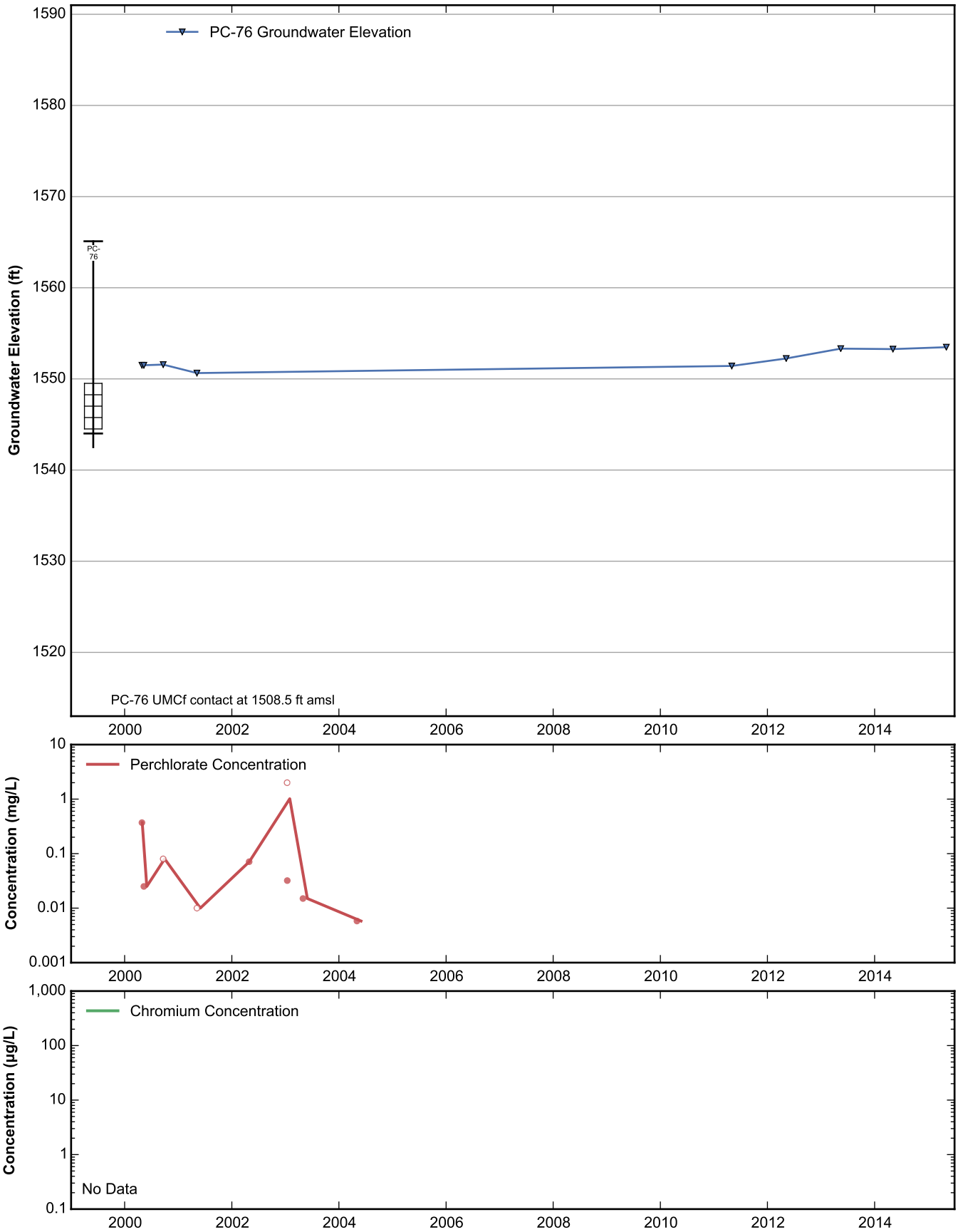


RAMBOLL ENVIRON

Data Sheet for Well PC-74
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

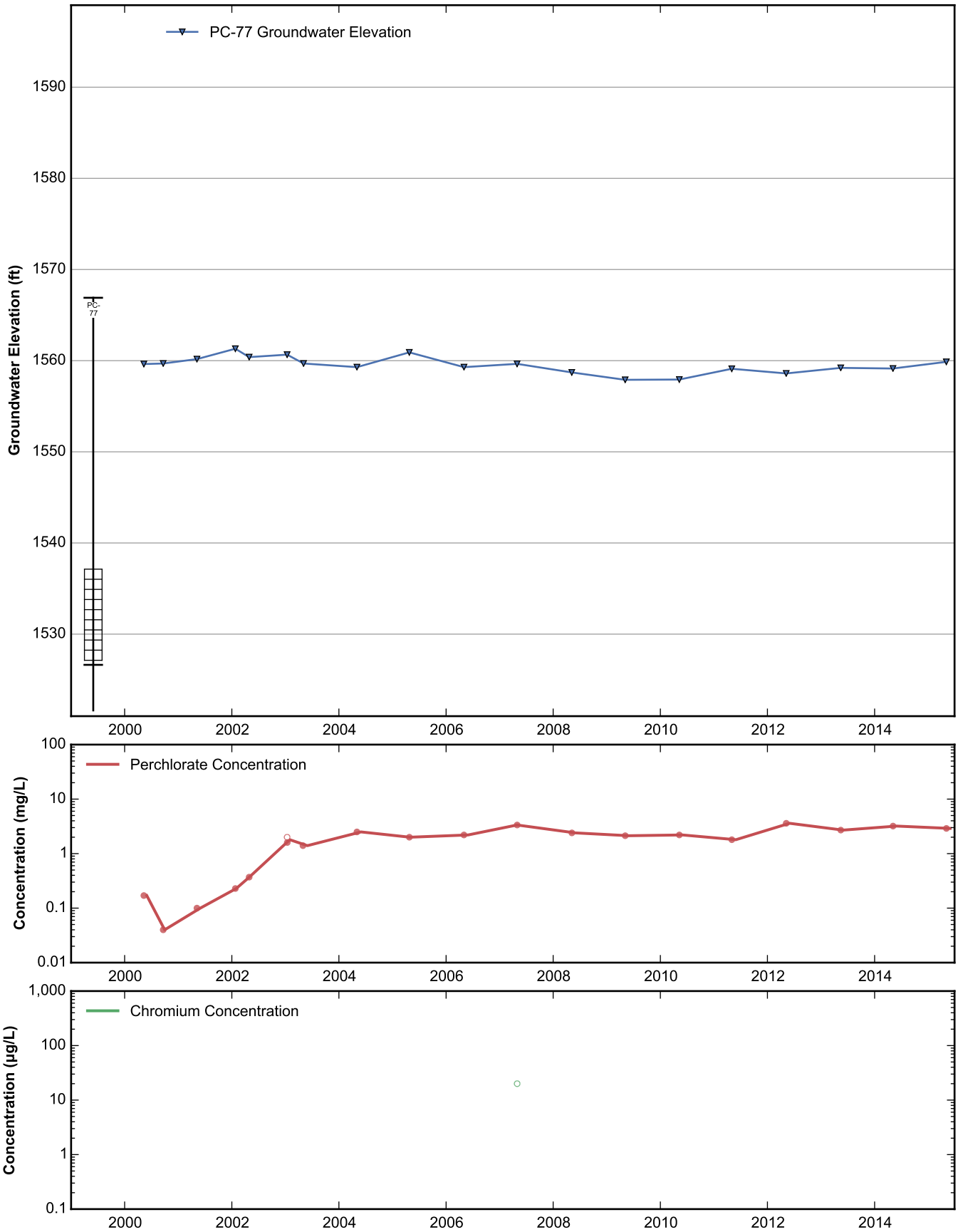


RAMBOLL ENVIRON

Data Sheet for Well PC-76
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

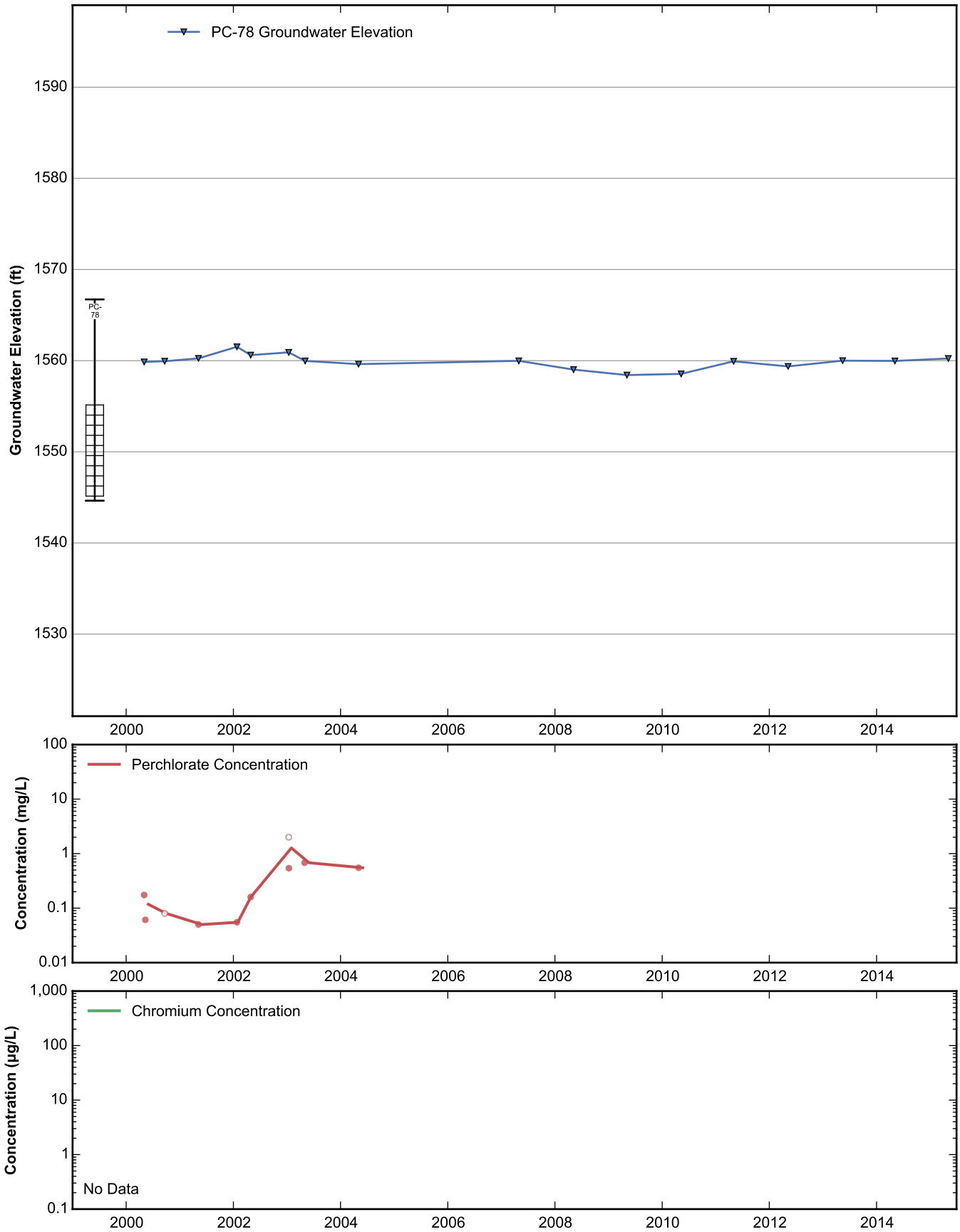
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-77
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

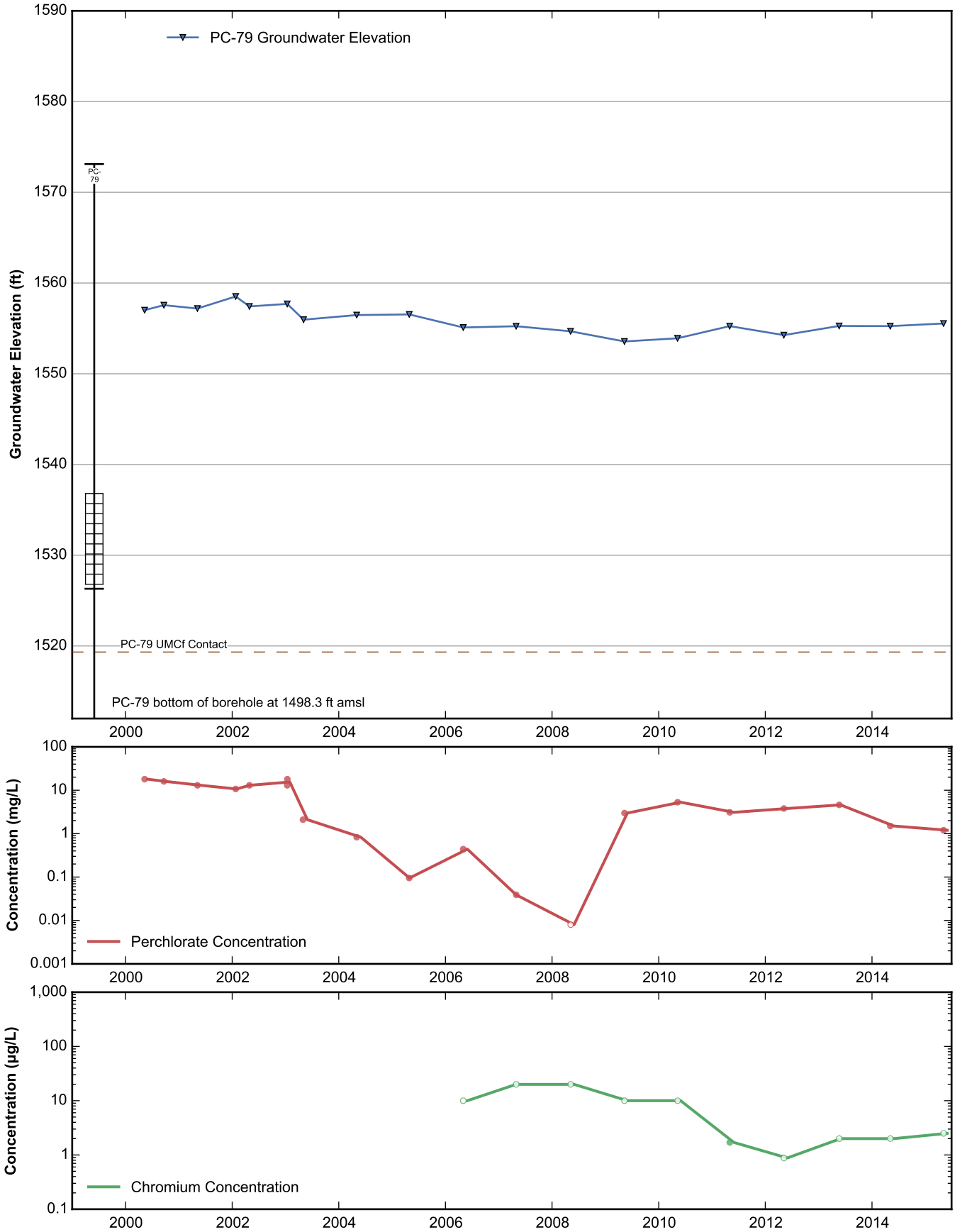


RAMBOLL ENVIRON

Data Sheet for Well PC-78
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

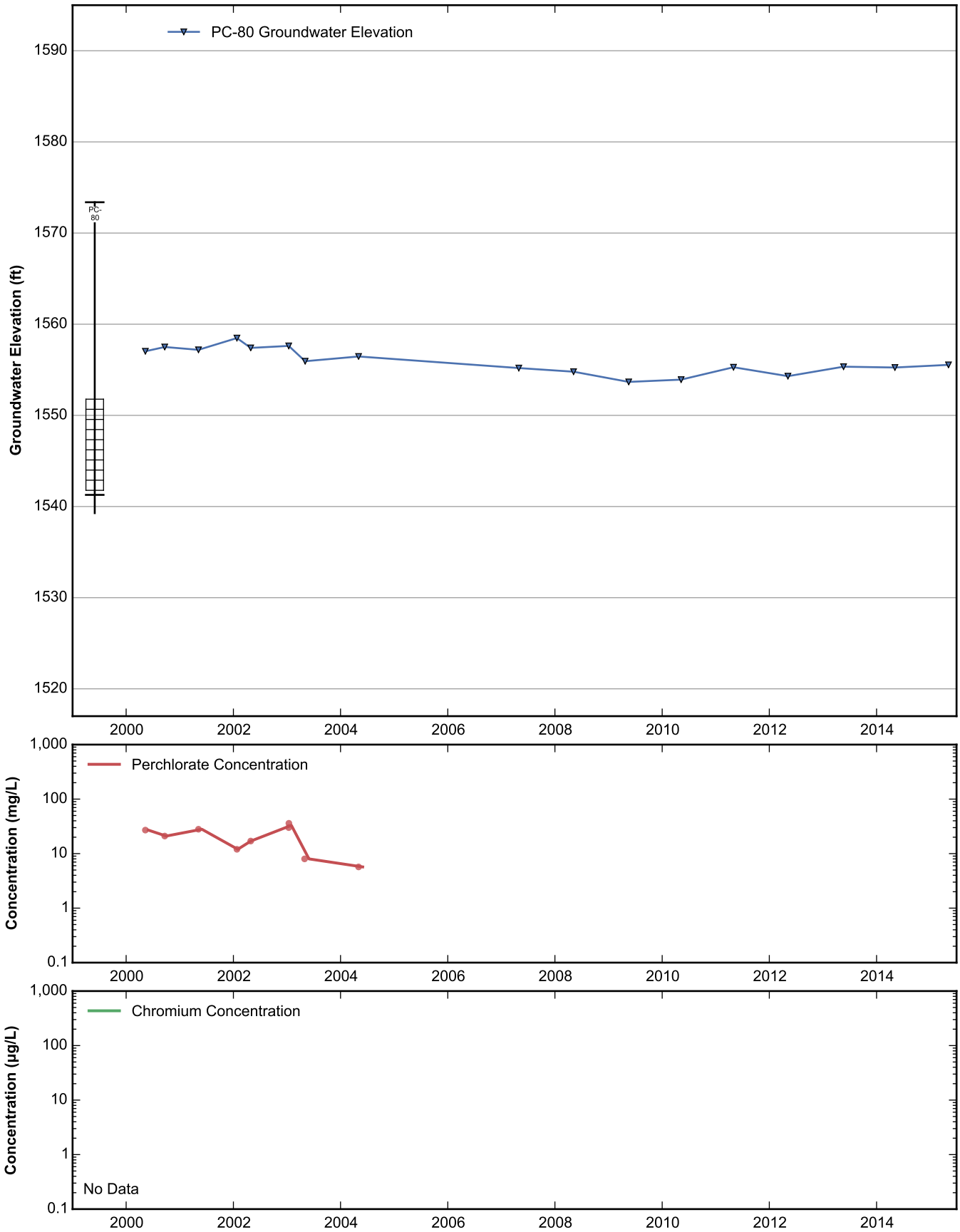


RAMBOLL ENVIRON

Data Sheet for Well PC-79
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

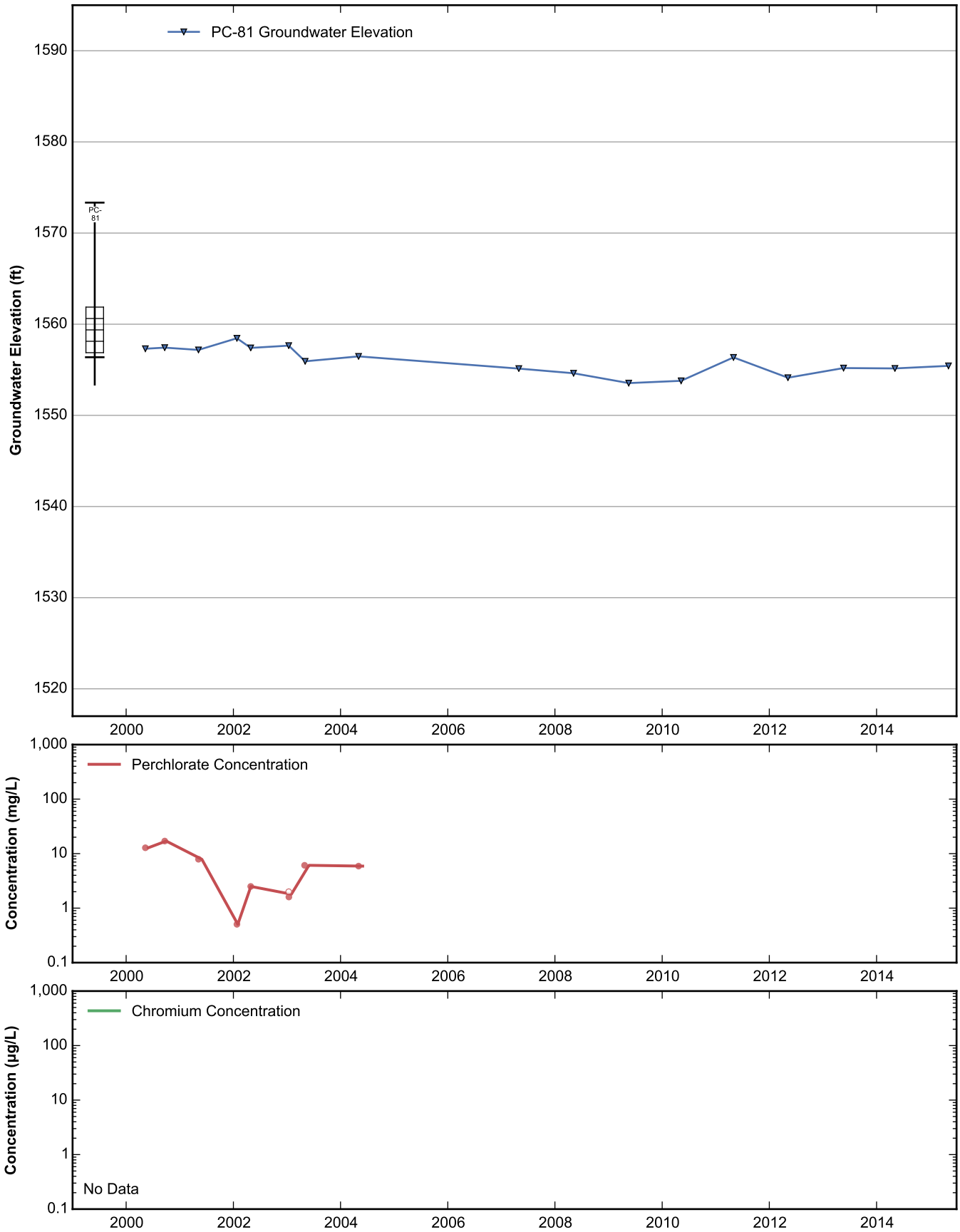
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-80
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

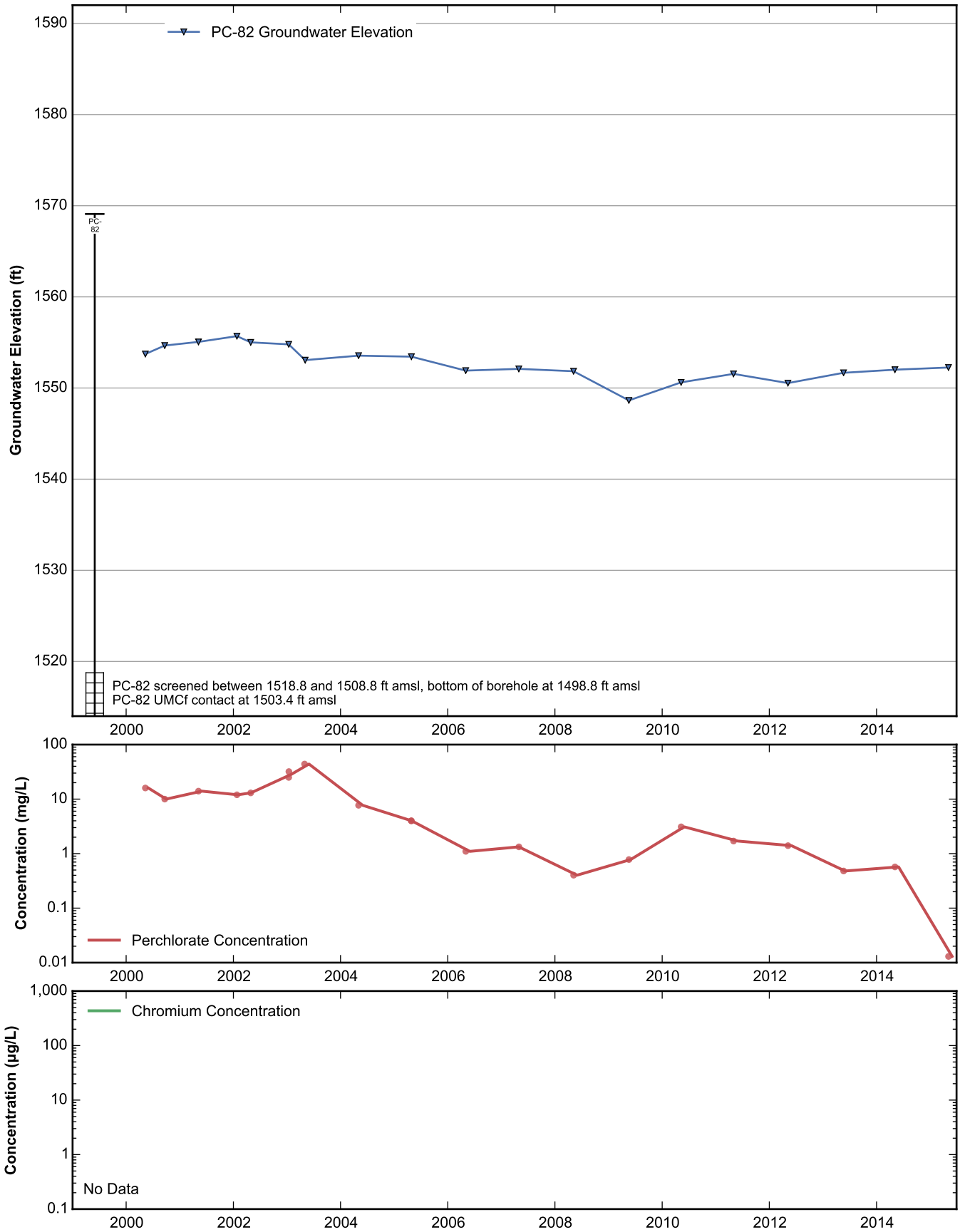


RAMBOLL ENVIRON

Data Sheet for Well PC-81
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

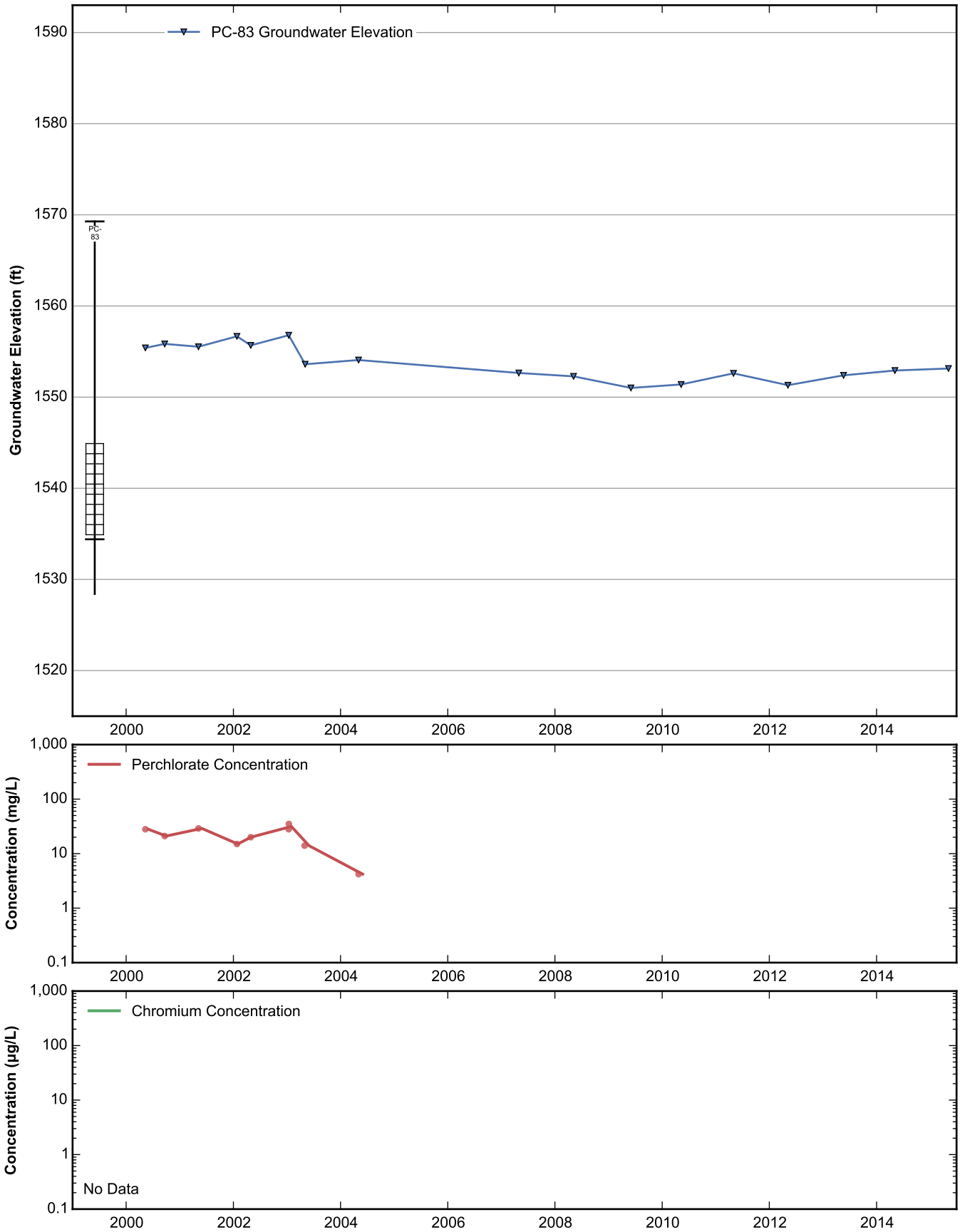


RAMBOLL ENVIRON

Data Sheet for Well PC-82
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

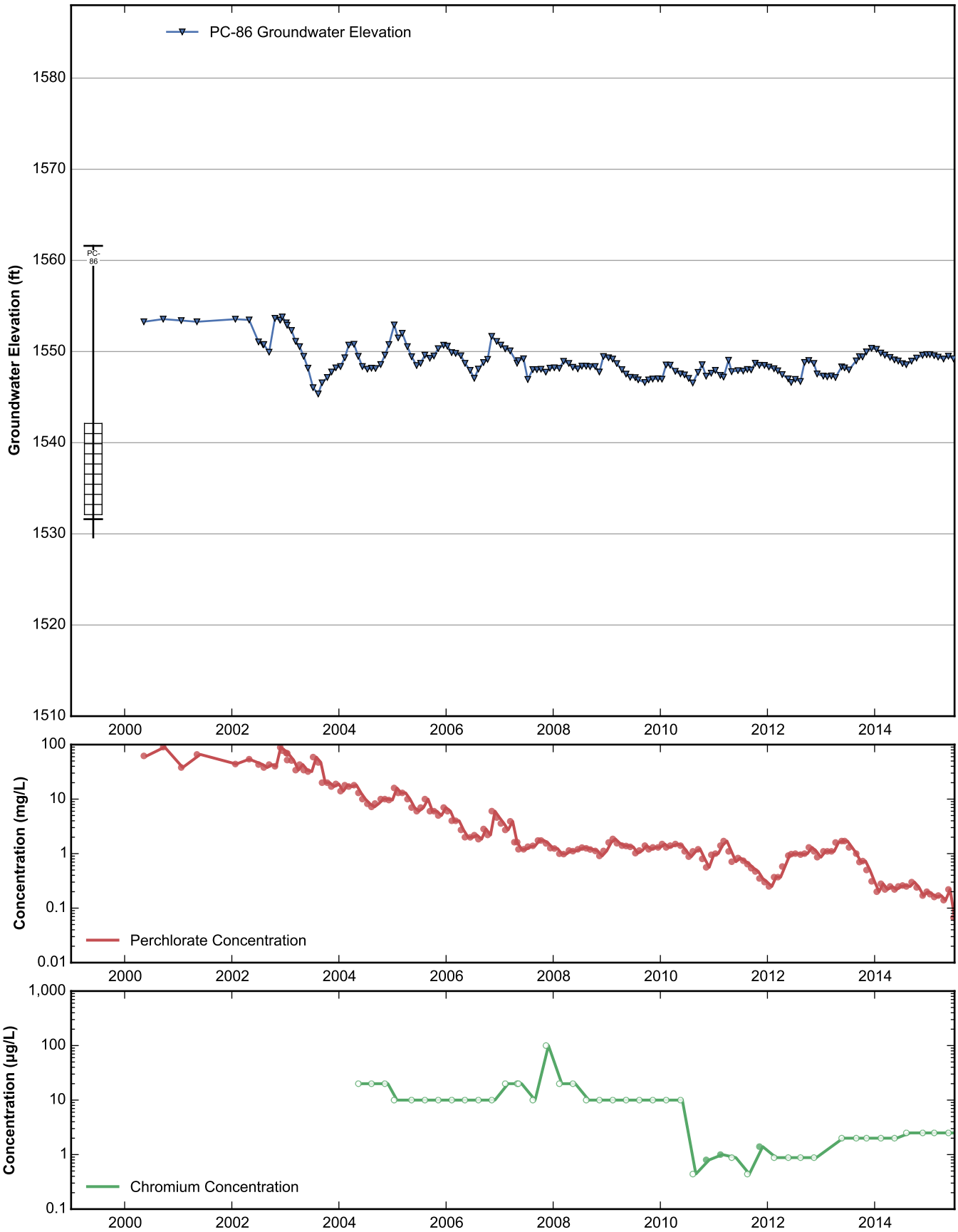


RAMBOLL ENVIRON

Data Sheet for Well PC-83
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

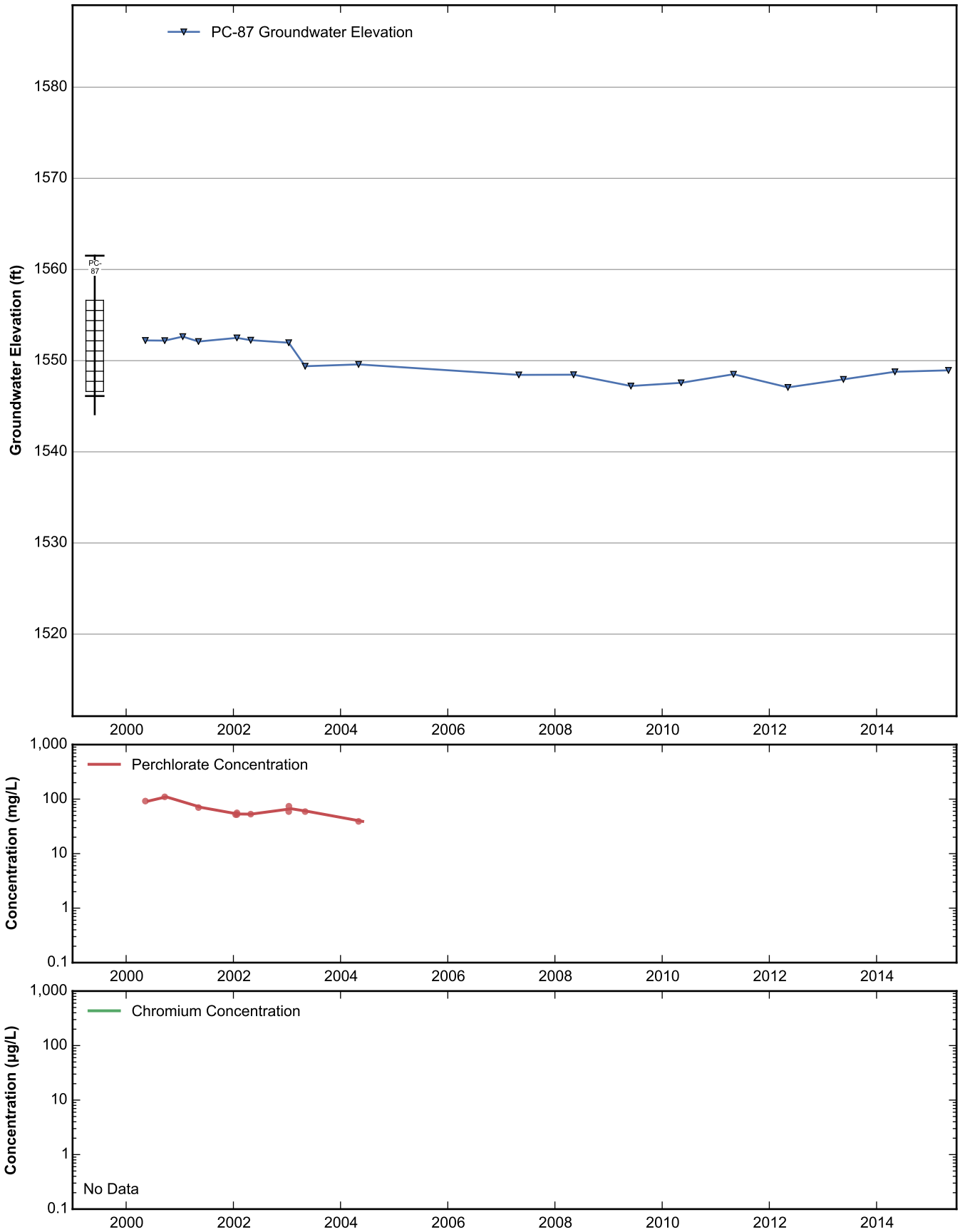
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-86
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

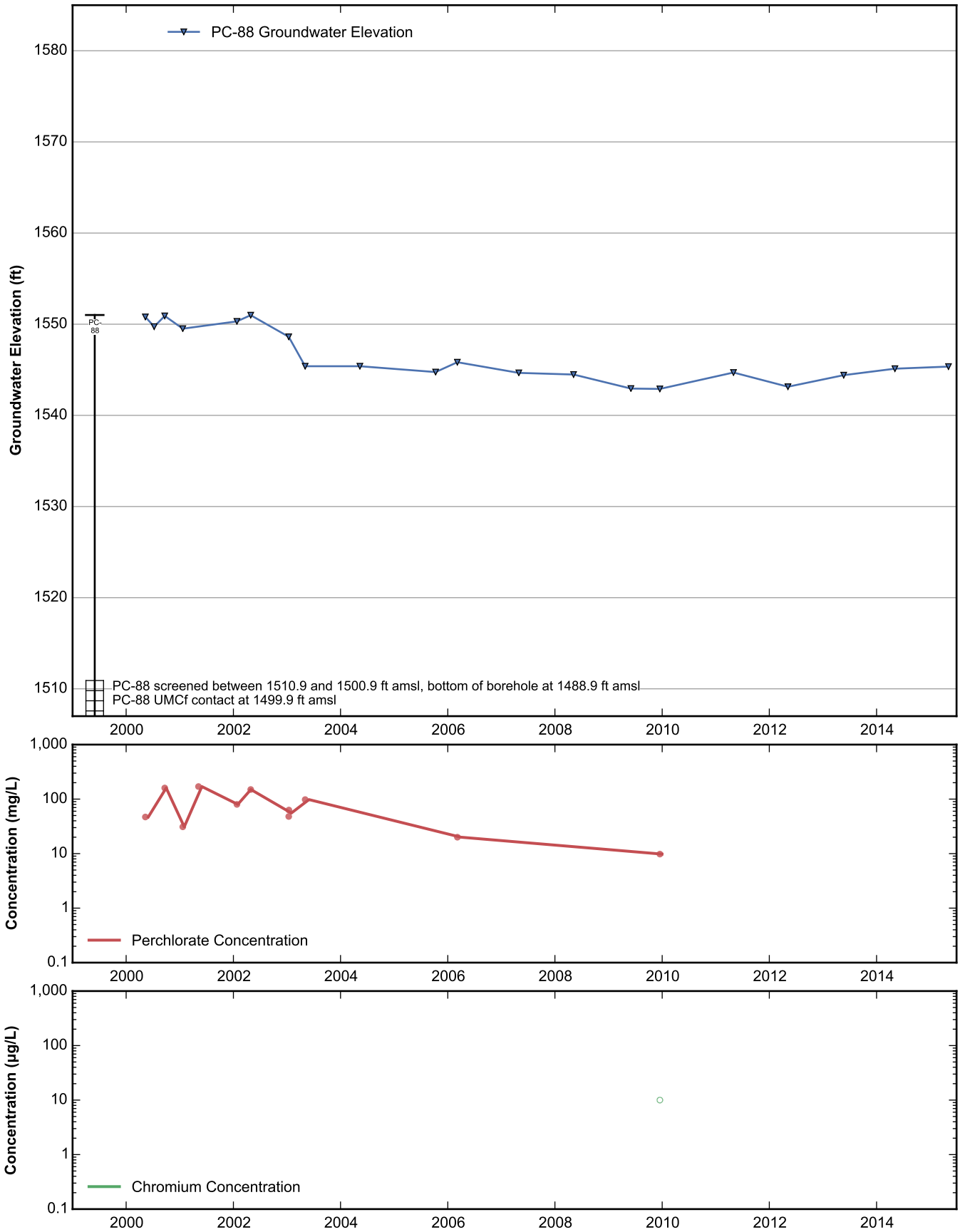


RAMBOLL ENVIRON

Data Sheet for Well PC-87
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

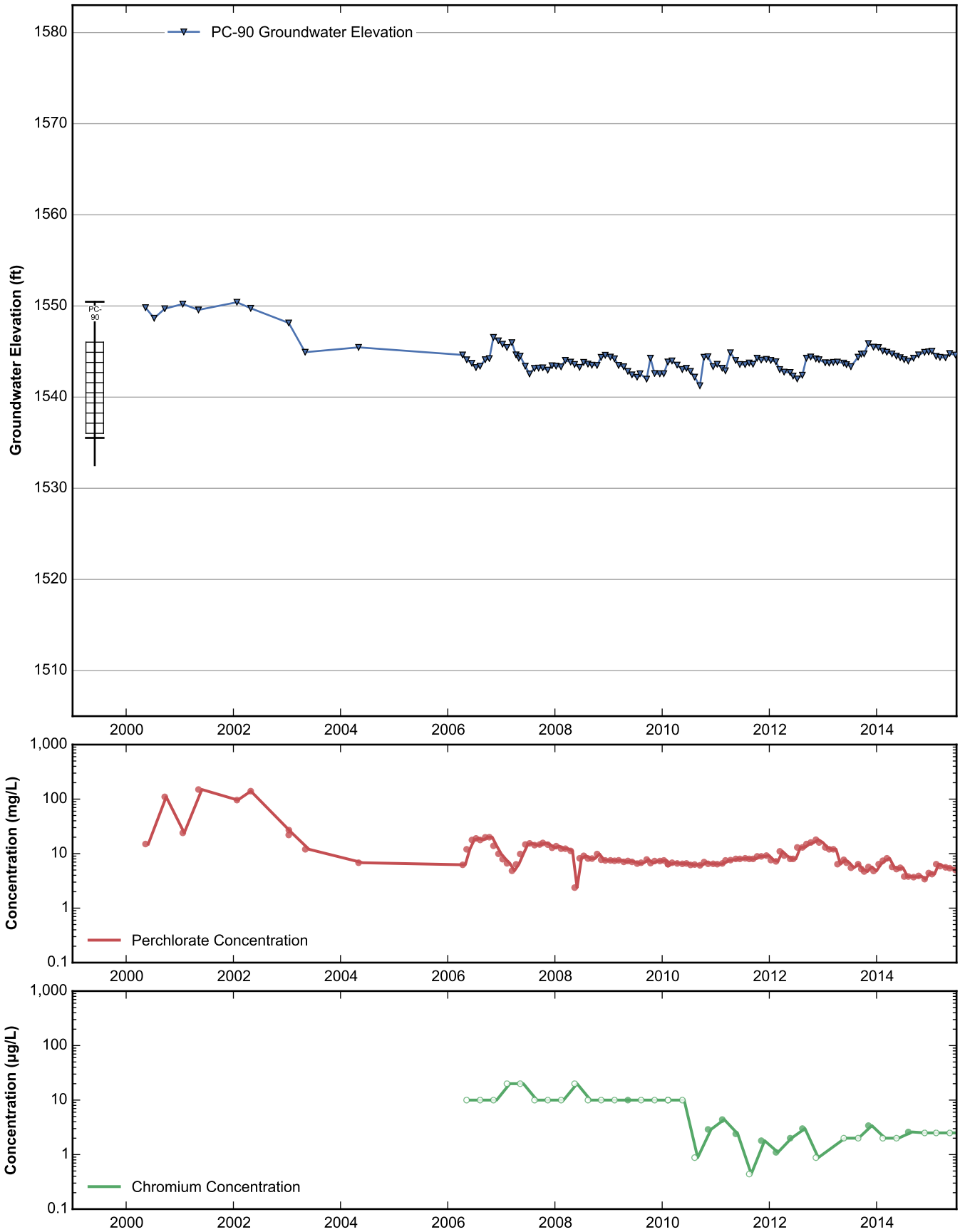


RAMBOLL ENVIRON

Data Sheet for Well PC-88
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

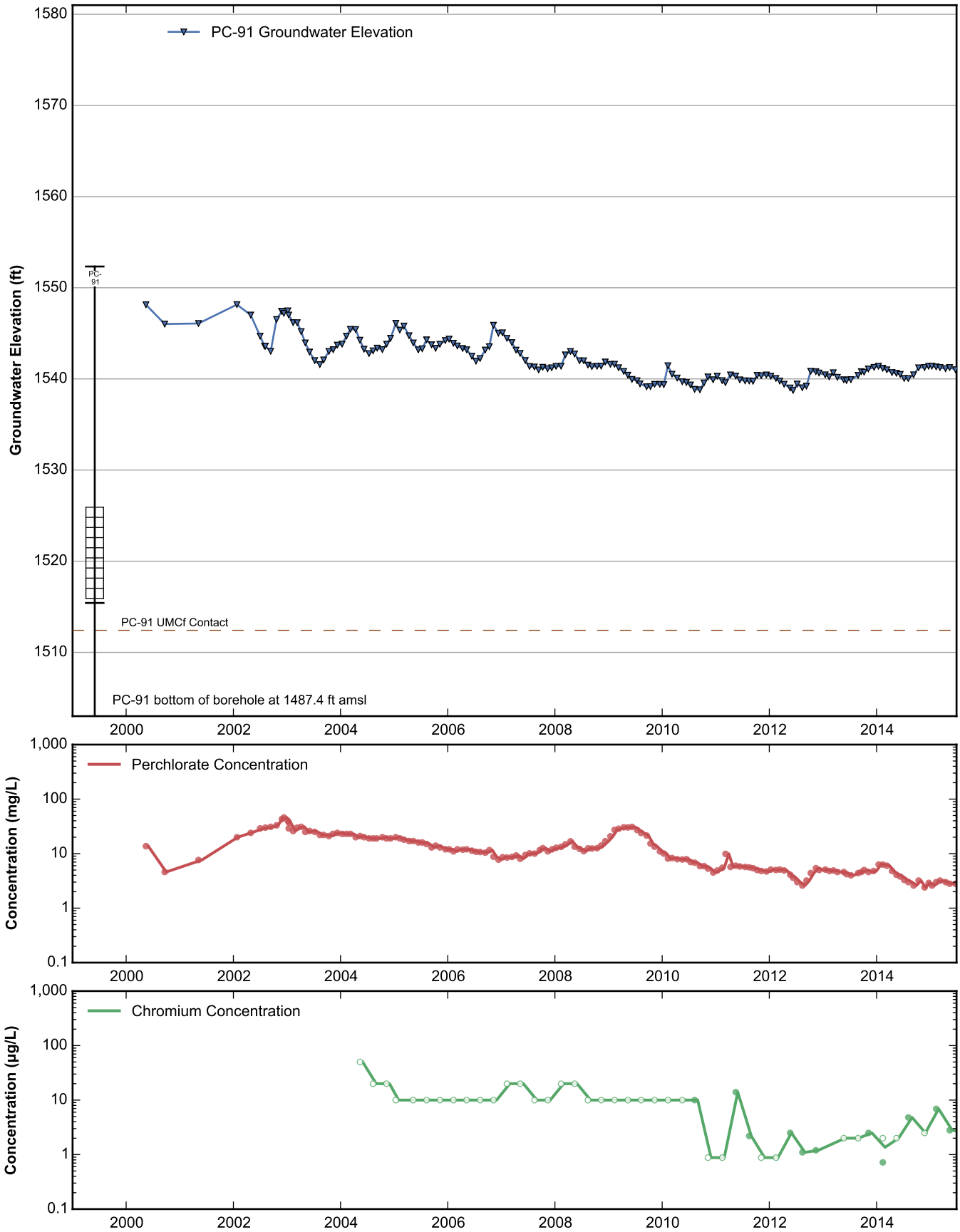


RAMBOLL ENVIRON

Data Sheet for Well PC-90
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

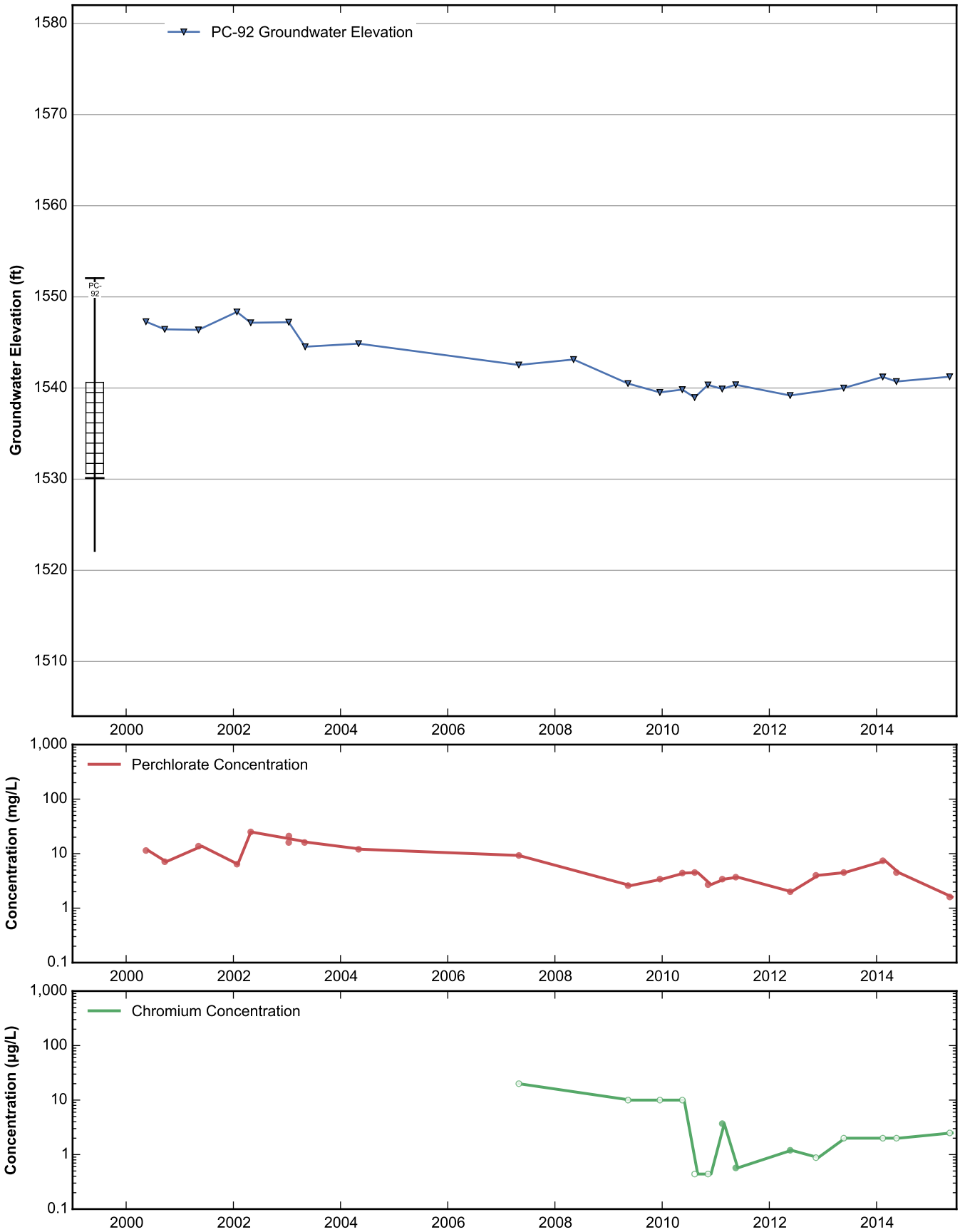


RAMBOLL ENVIRON

Data Sheet for Well PC-91
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

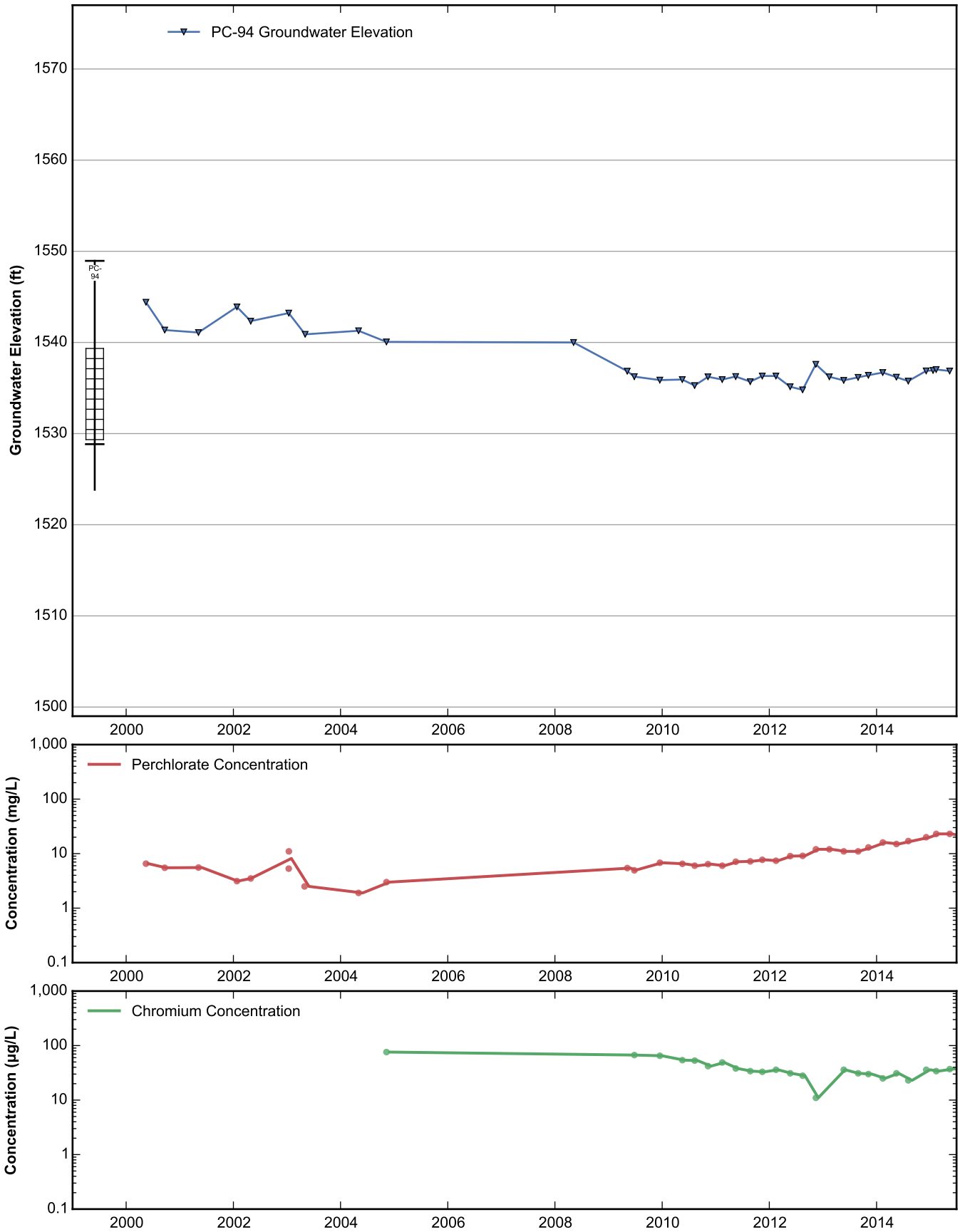


RAMBOLL ENVIRON

Data Sheet for Well PC-92
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

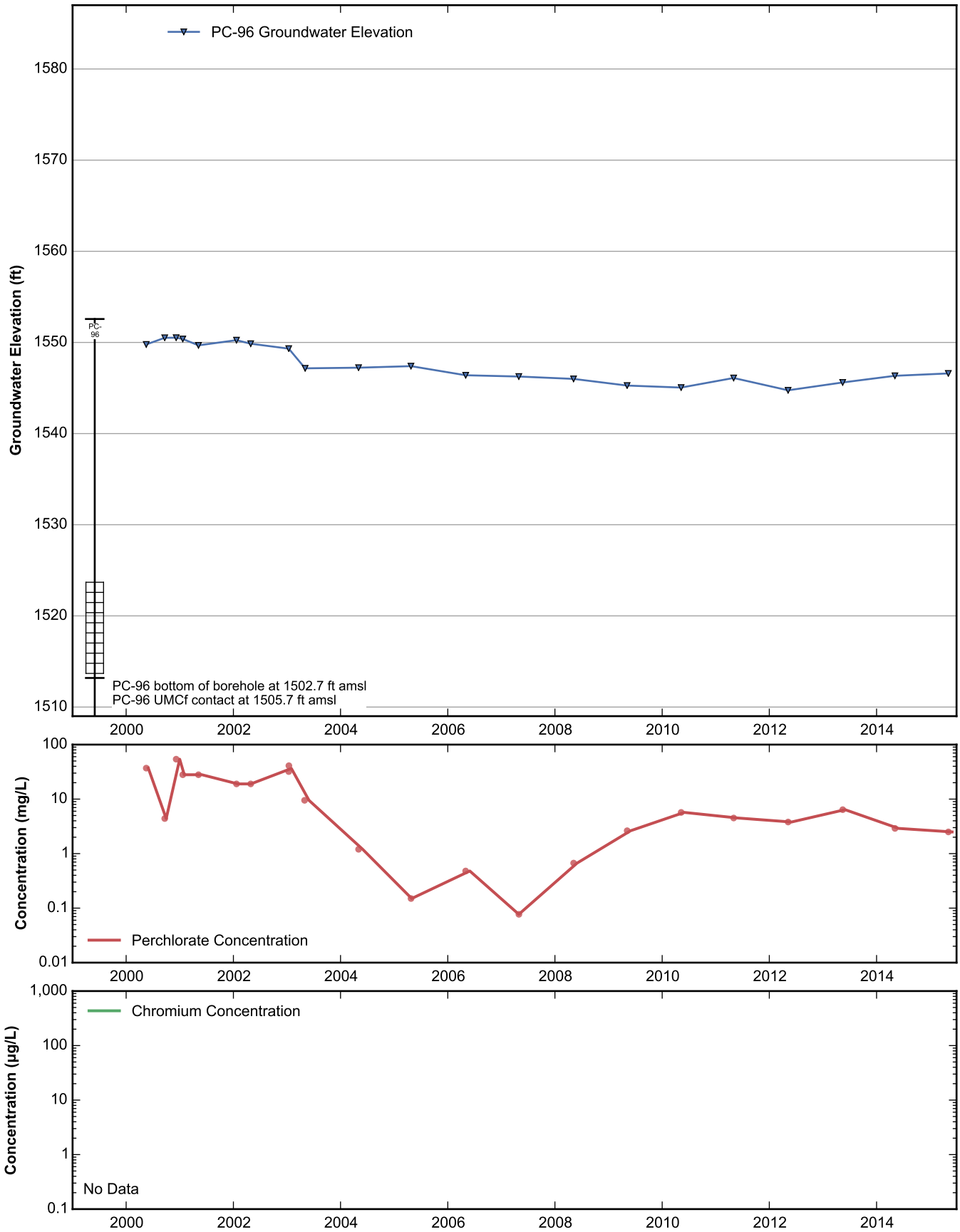
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-94
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

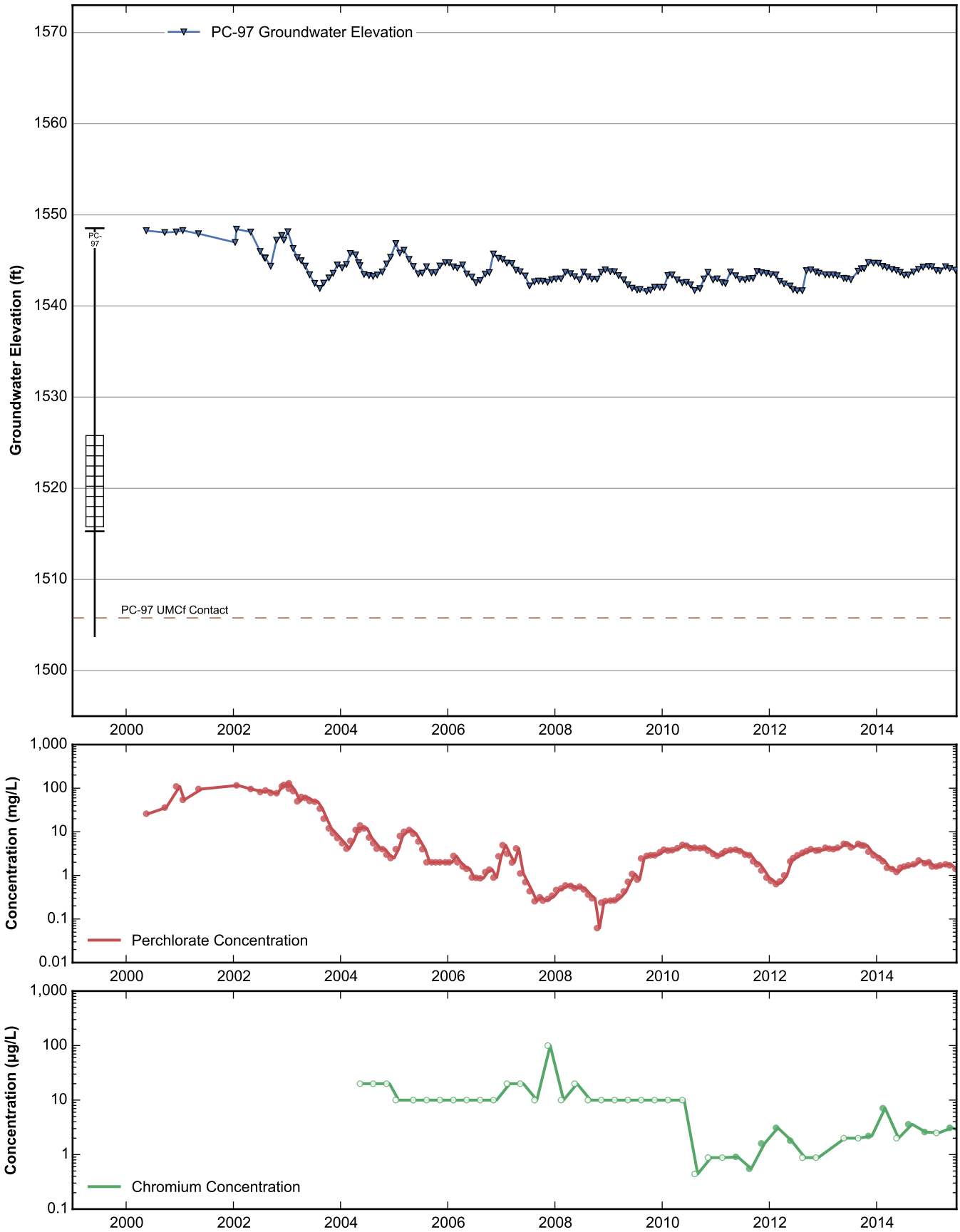


RAMBOLL ENVIRON

Data Sheet for Well PC-96
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

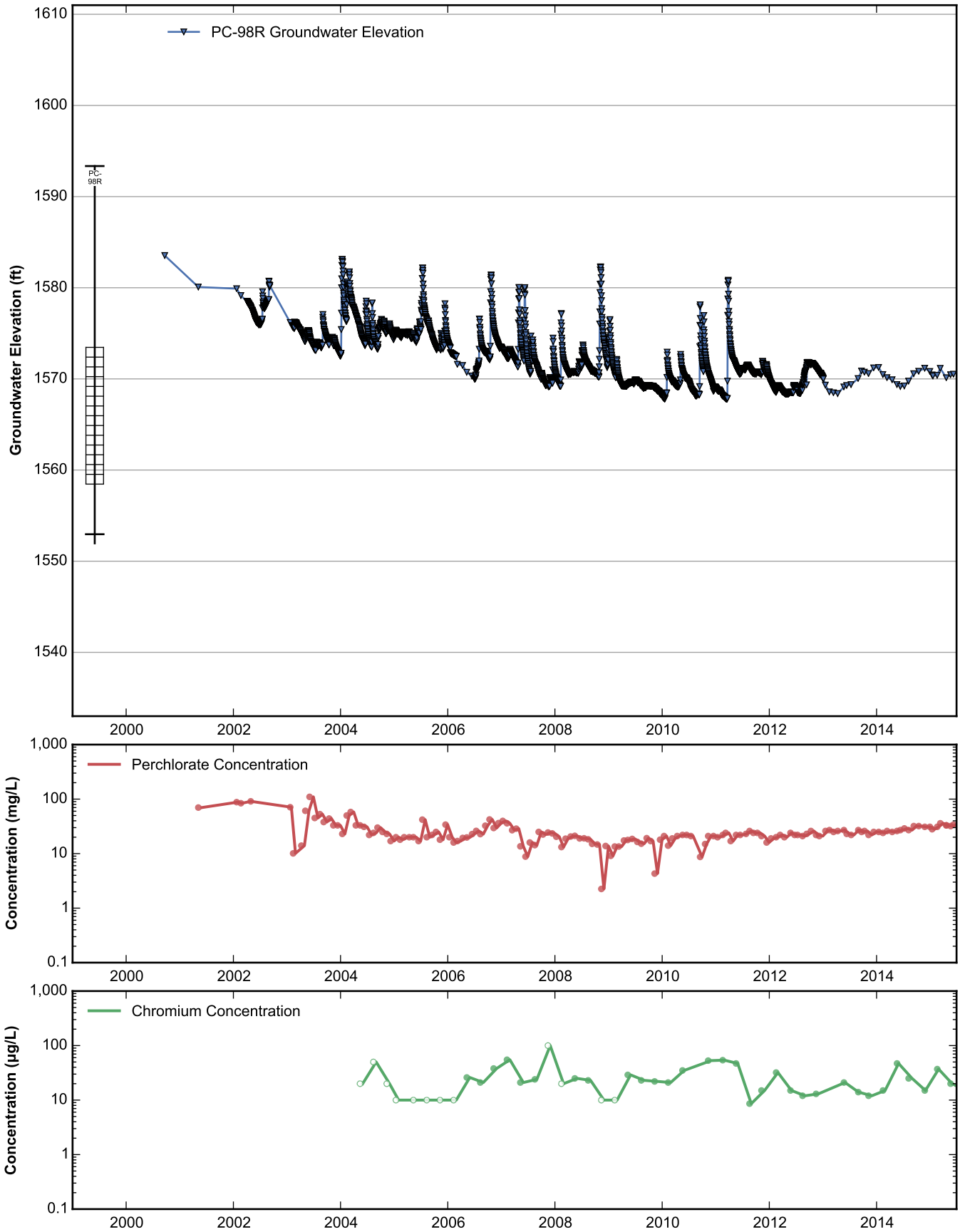


RAMBOLL ENVIRON

Data Sheet for Well PC-97
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

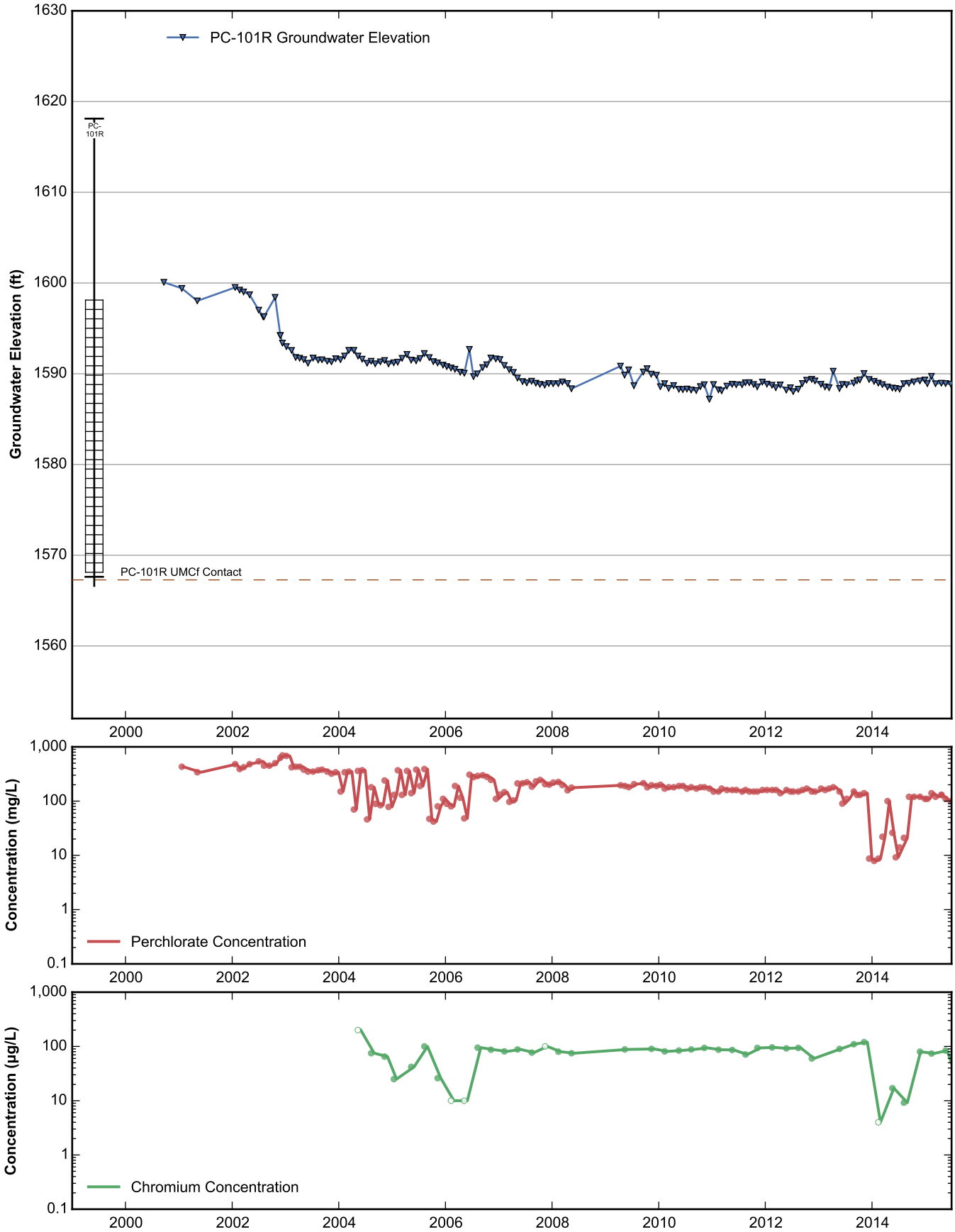


RAMBOLL ENVIRON

Data Sheet for Well PC-98R
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

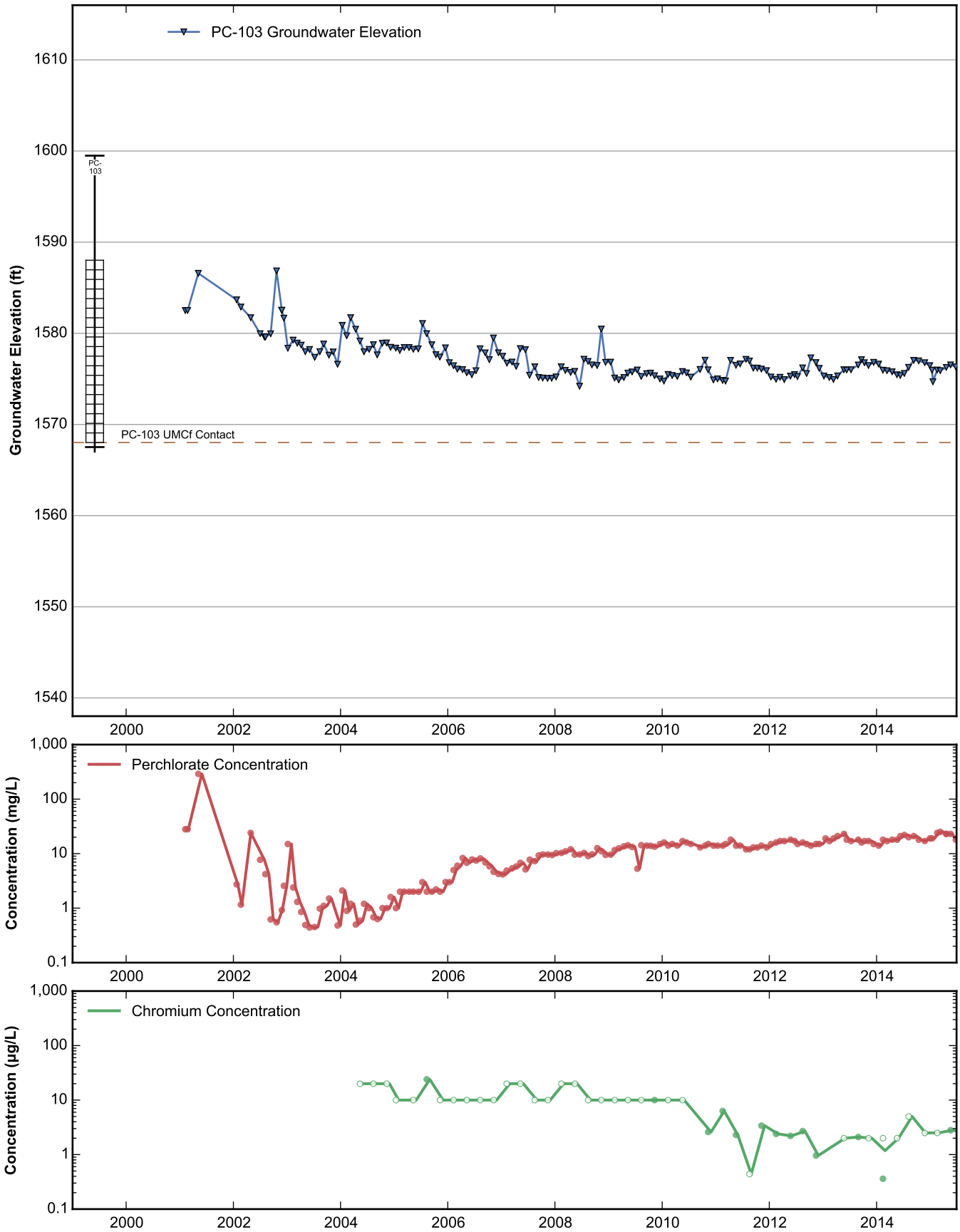


RAMBOLL ENVIRON

Data Sheet for Well PC-101R
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

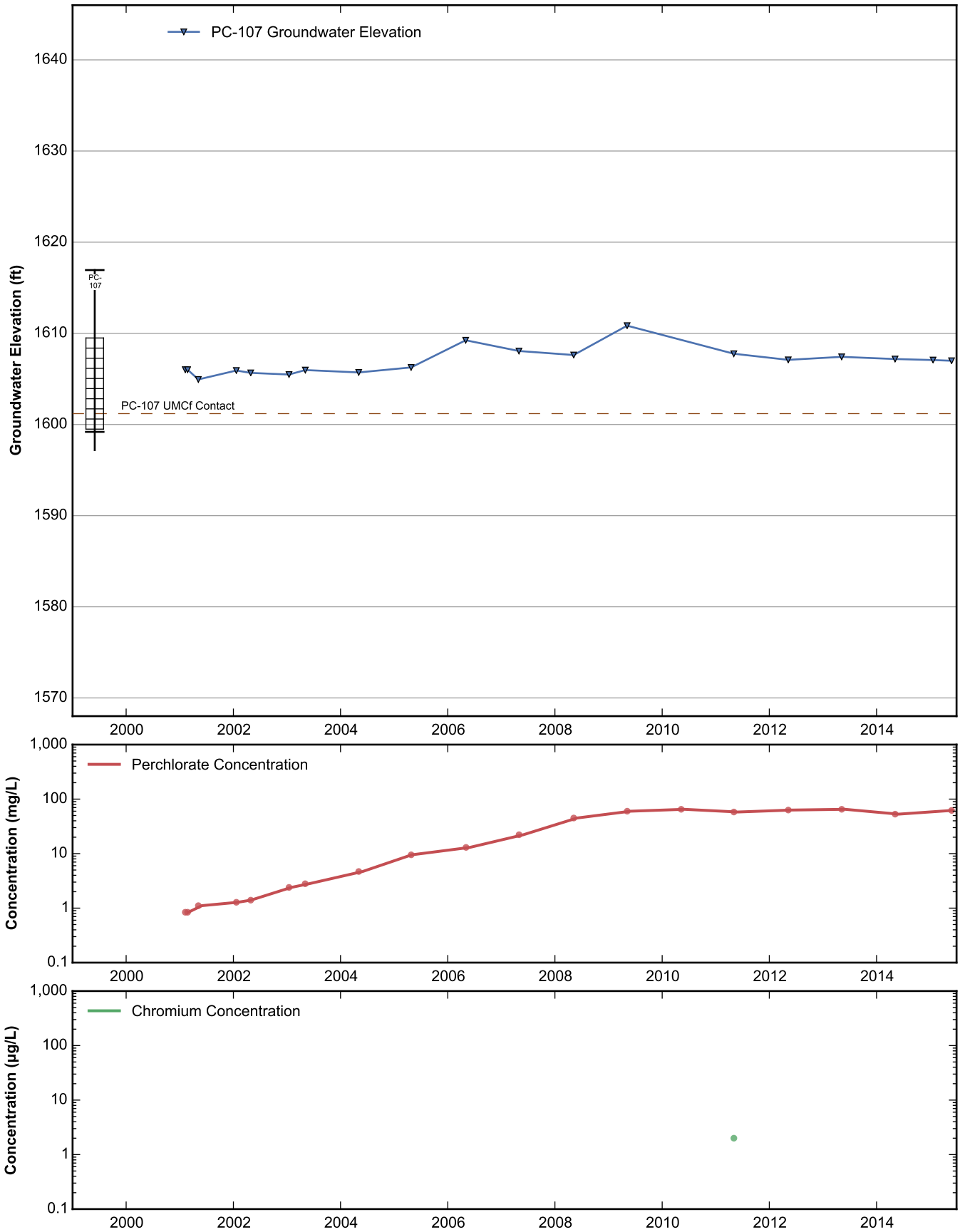


RAMBOLL ENVIRON

Data Sheet for Well PC-103
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

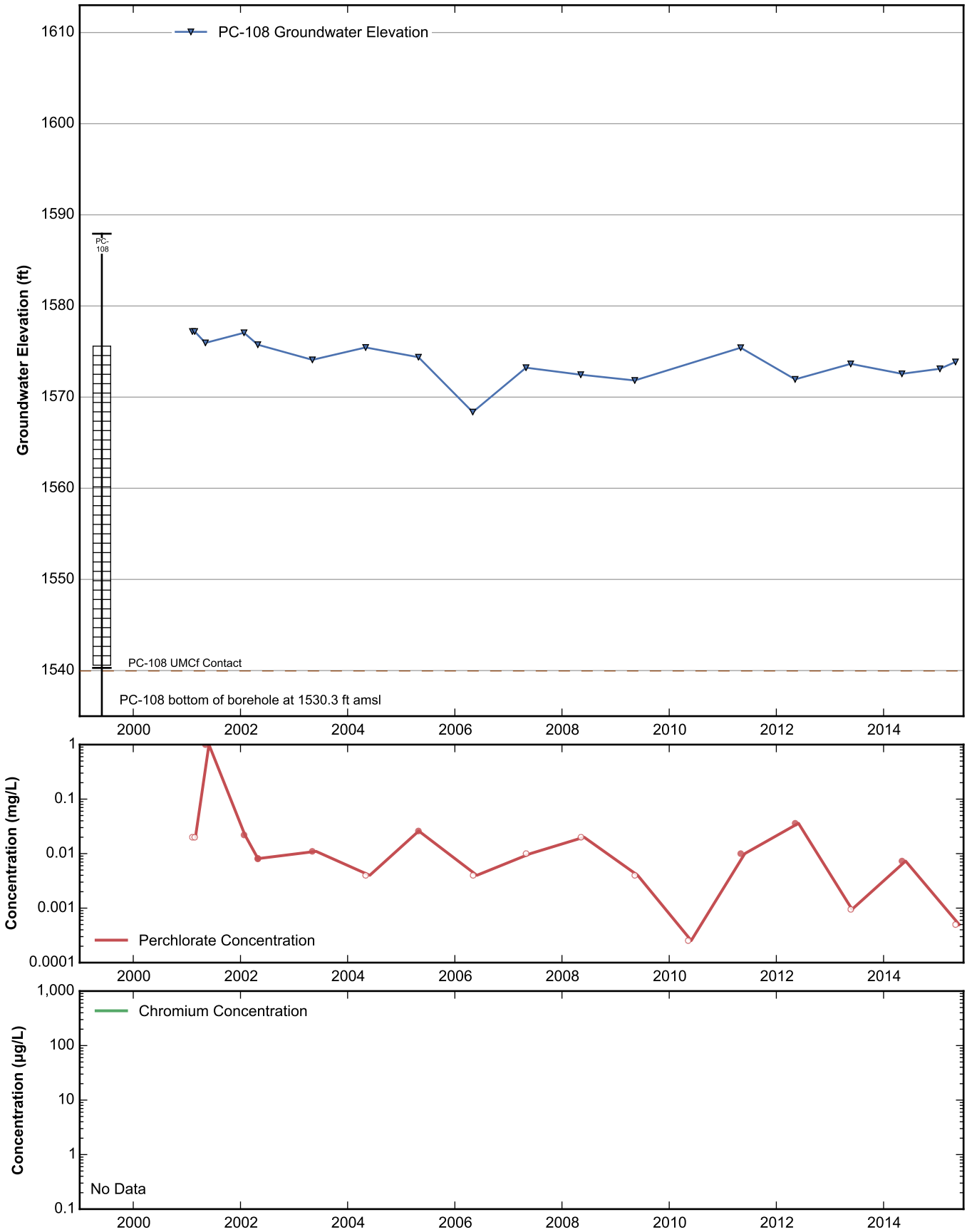
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-107
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

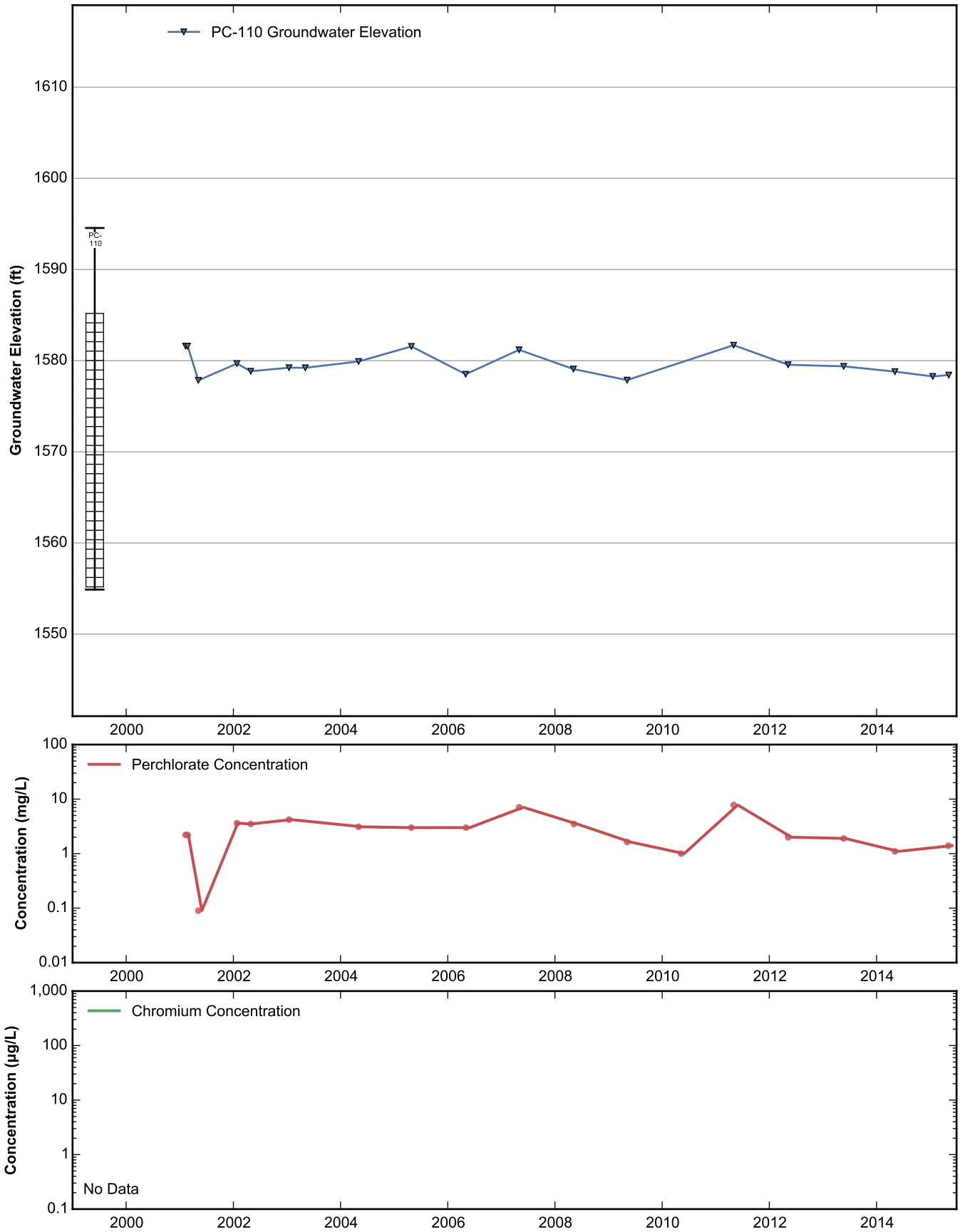


RAMBOLL ENVIRON

Data Sheet for Well PC-108
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

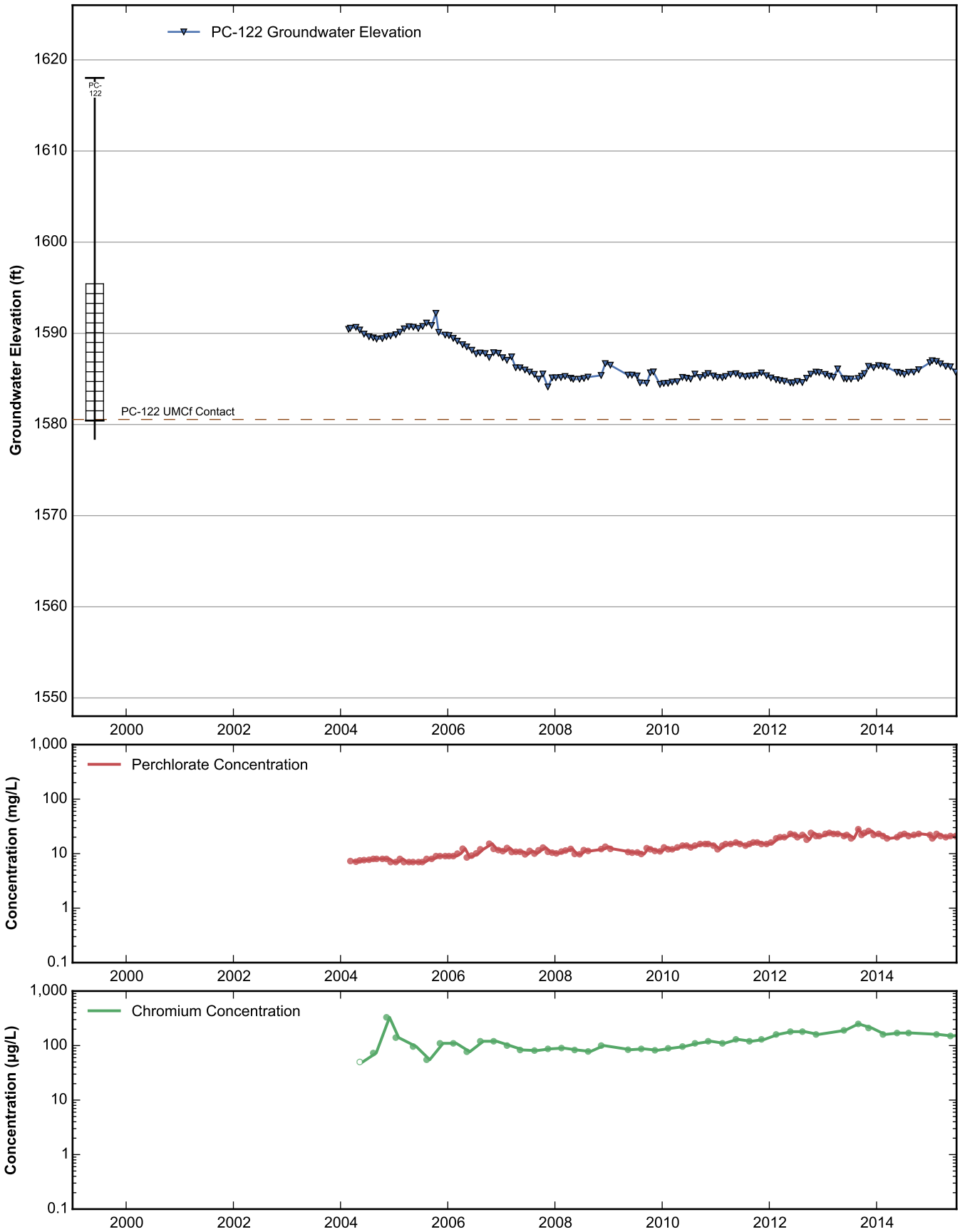
Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-110
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

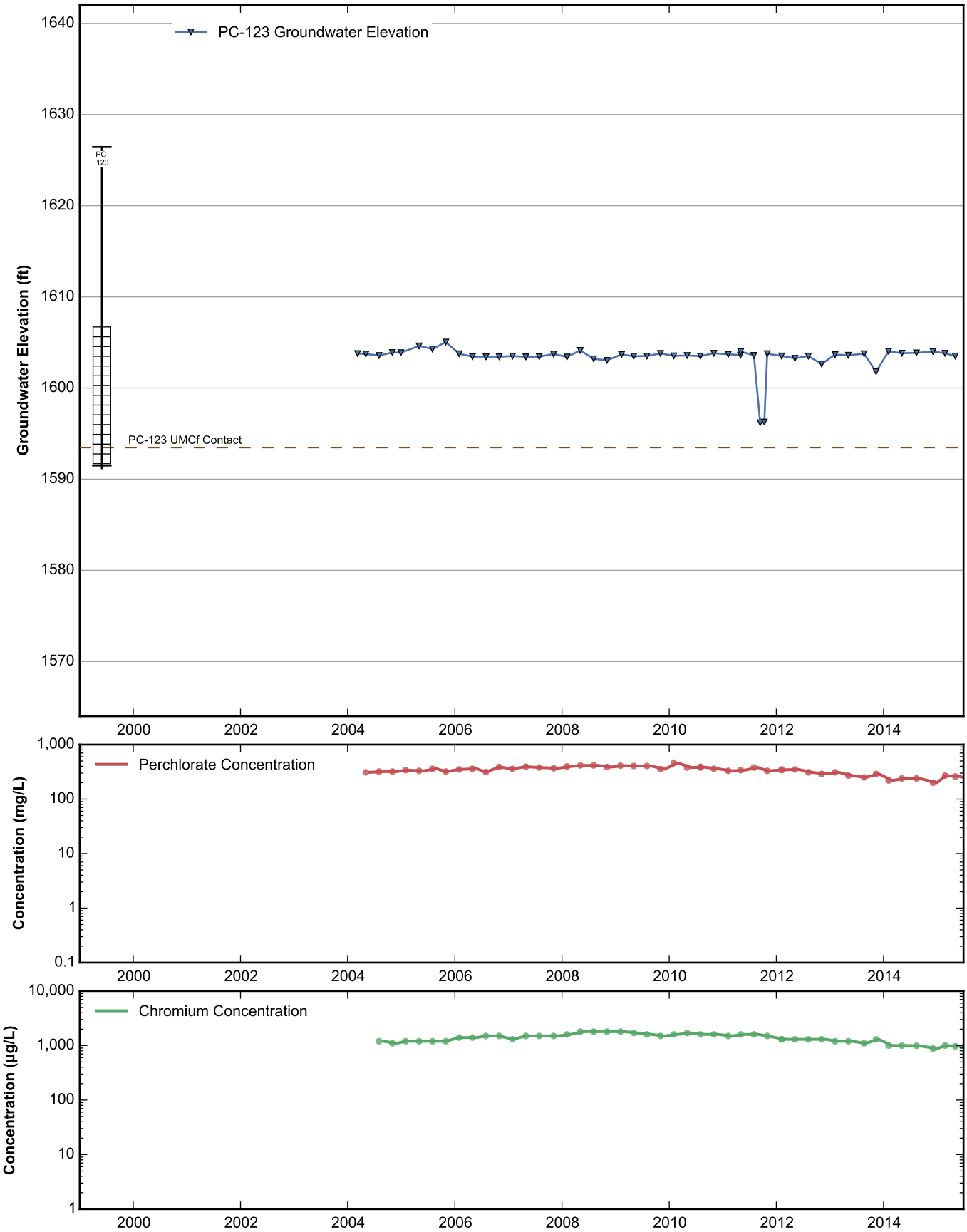


RAMBOLL ENVIRON

Data Sheet for Well PC-122
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

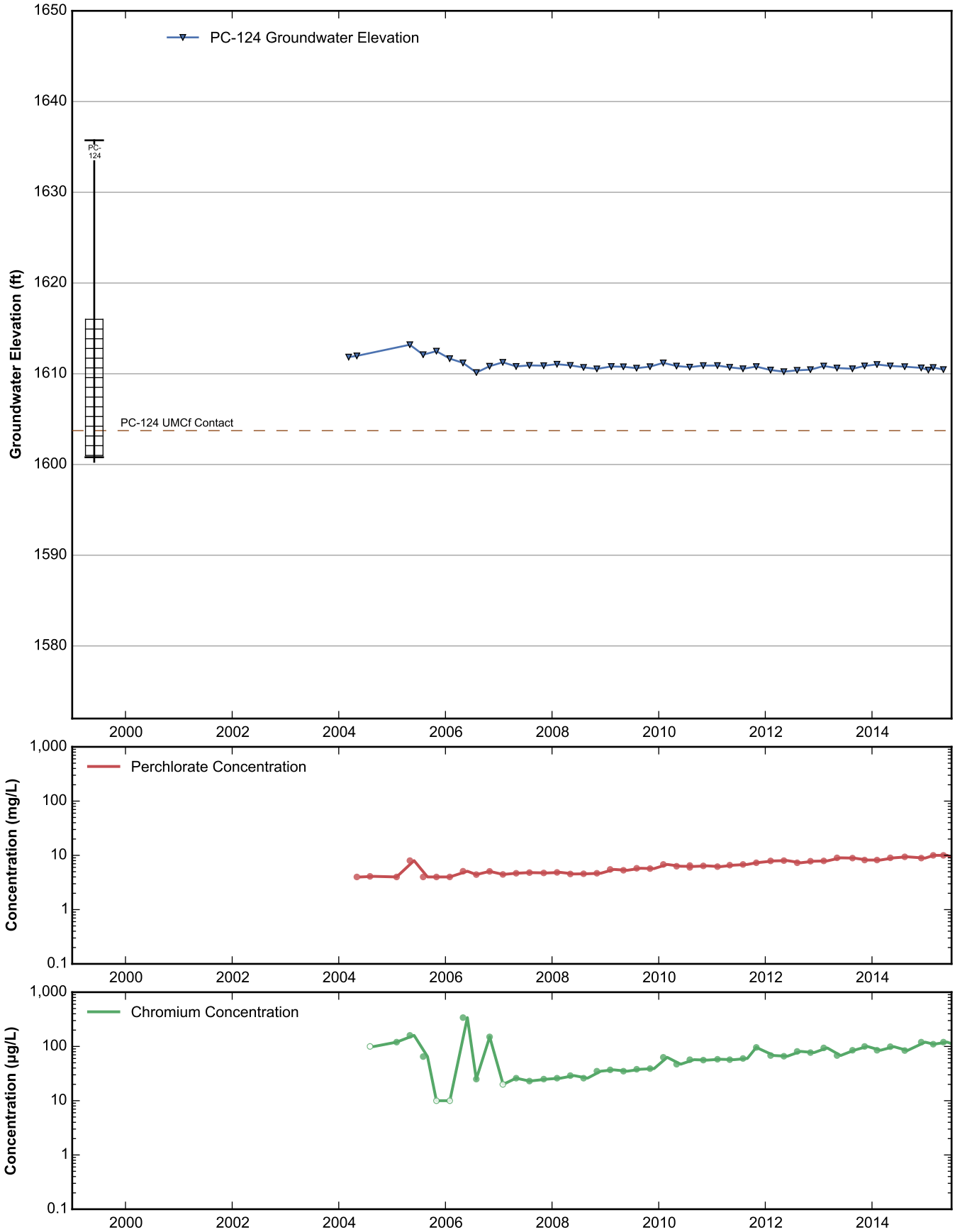


RAMBOLL ENVIRON

Data Sheet for Well PC-123
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py

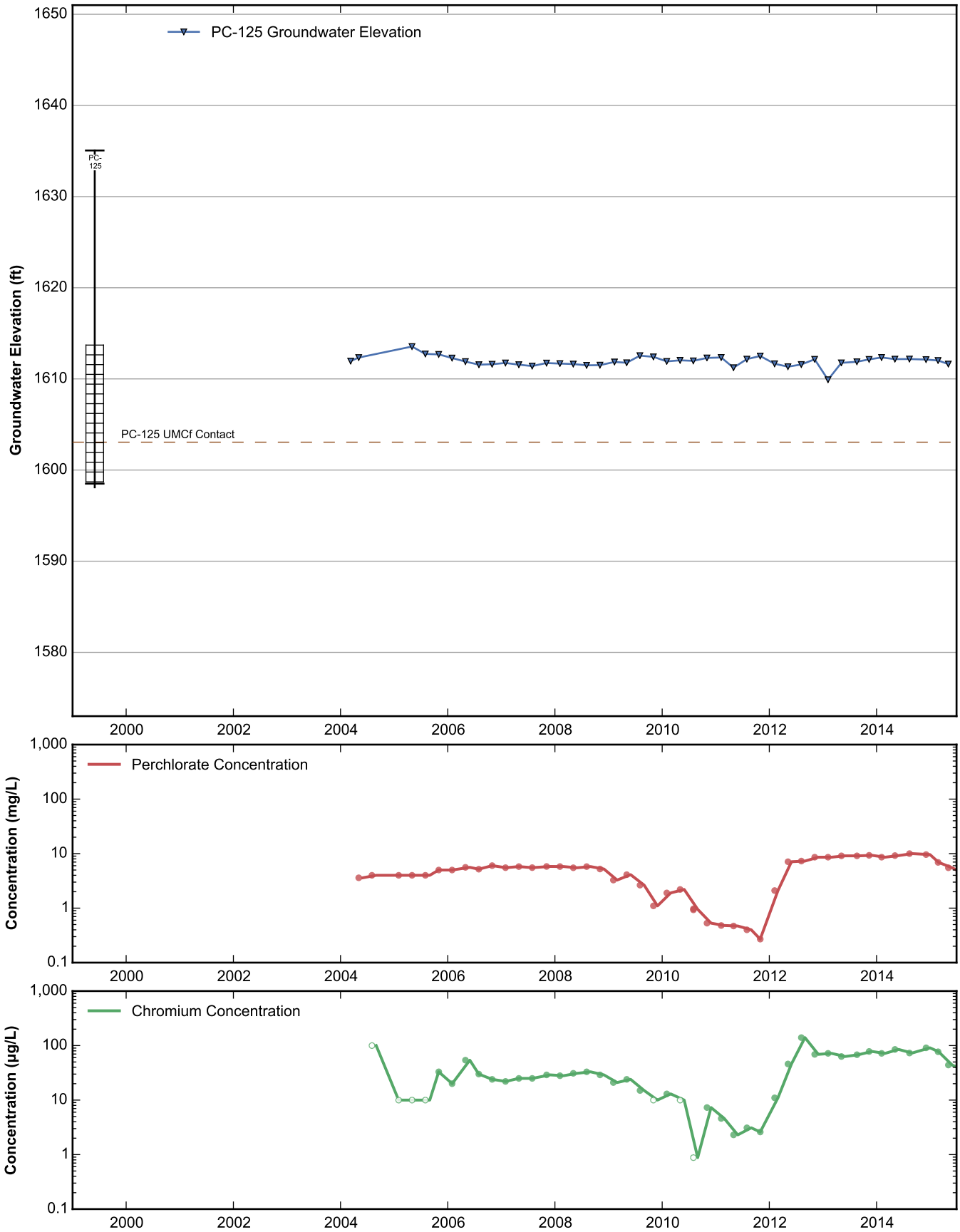


RAMBOLL ENVIRON

Data Sheet for Well PC-124
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



RAMBOLL ENVIRON

Data Sheet for Well PC-125
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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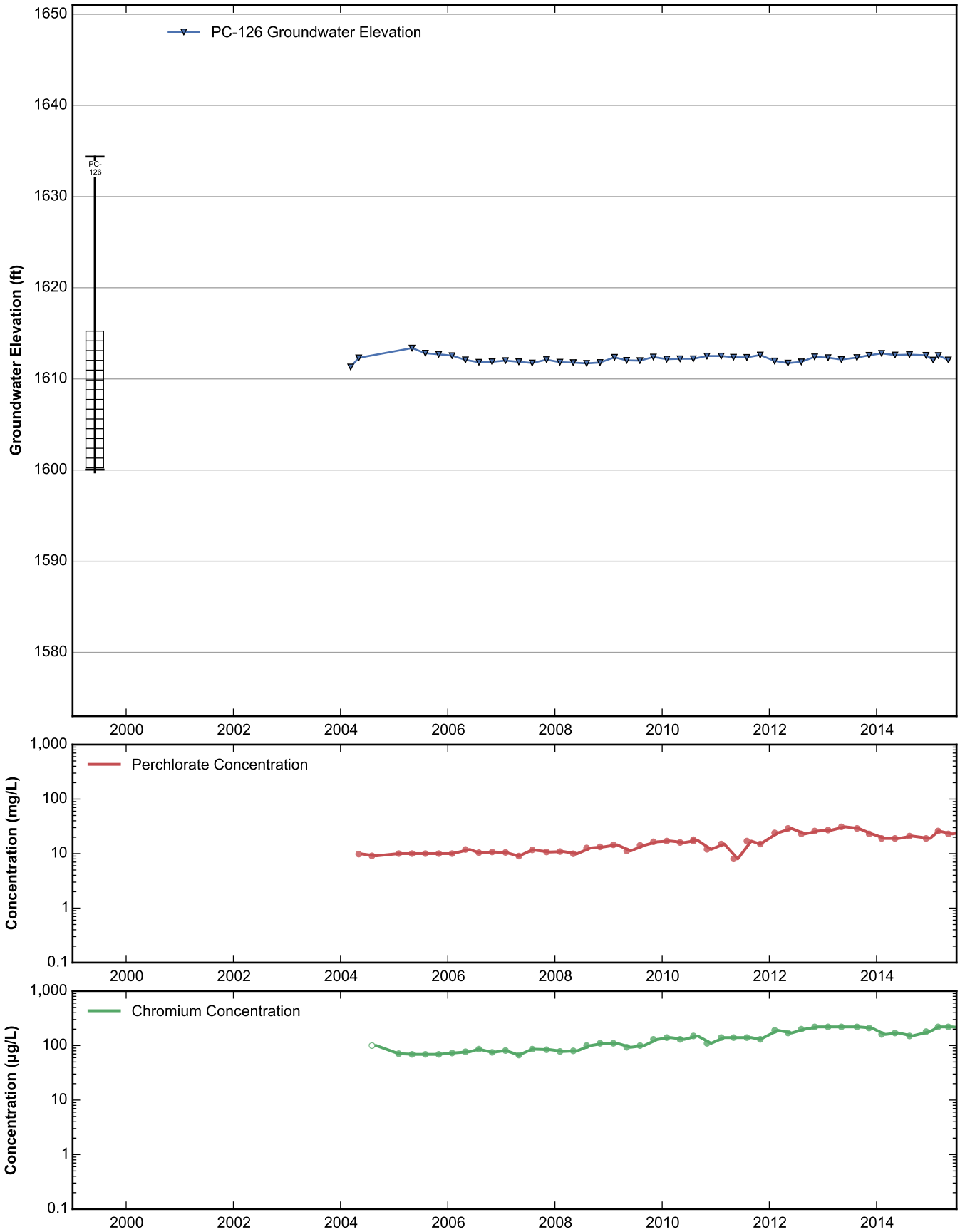
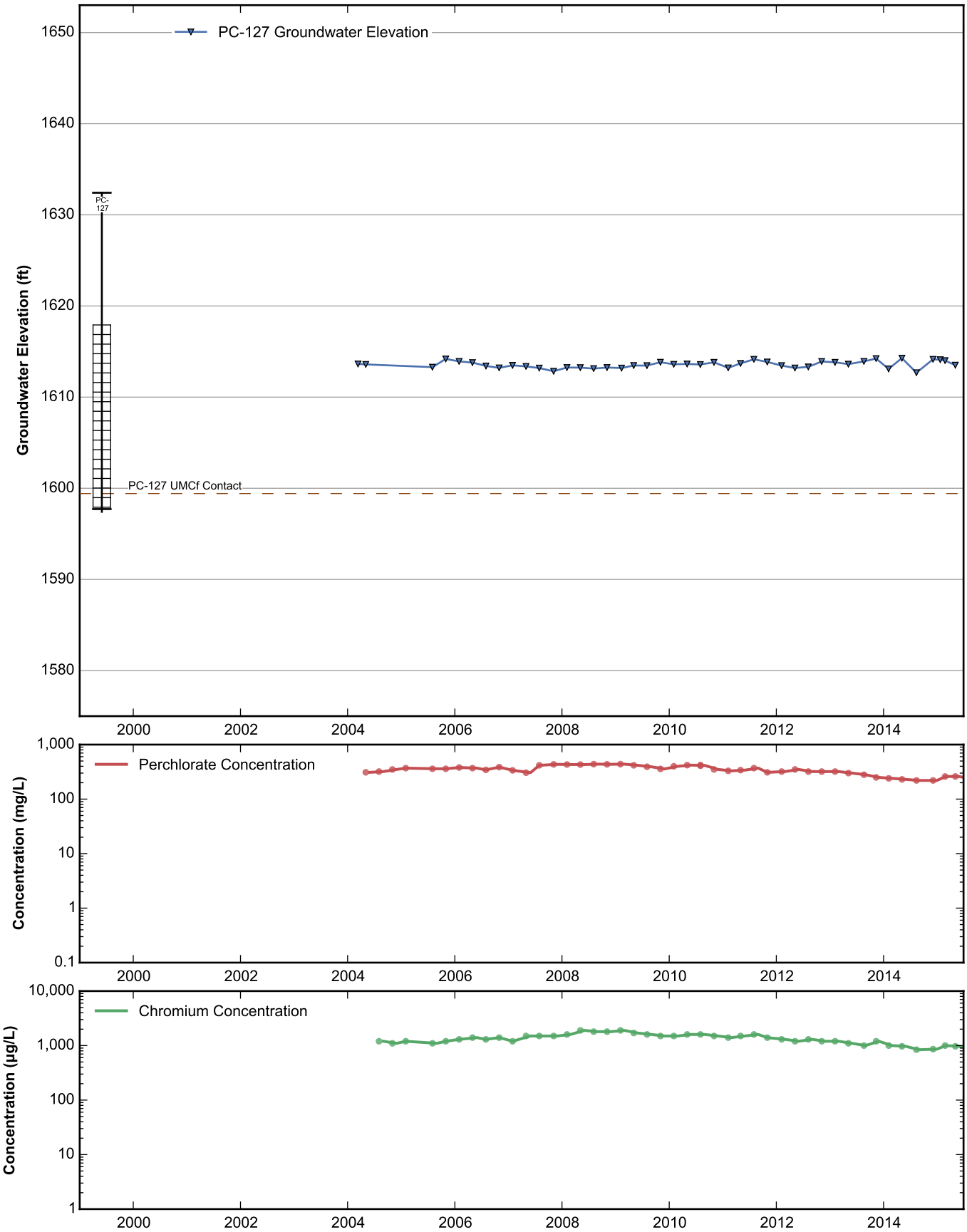


RAMBOLL ENVIRON

Data Sheet for Well PC-126
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:



RAMBOLL ENVIRON

Data Sheet for Well PC-127
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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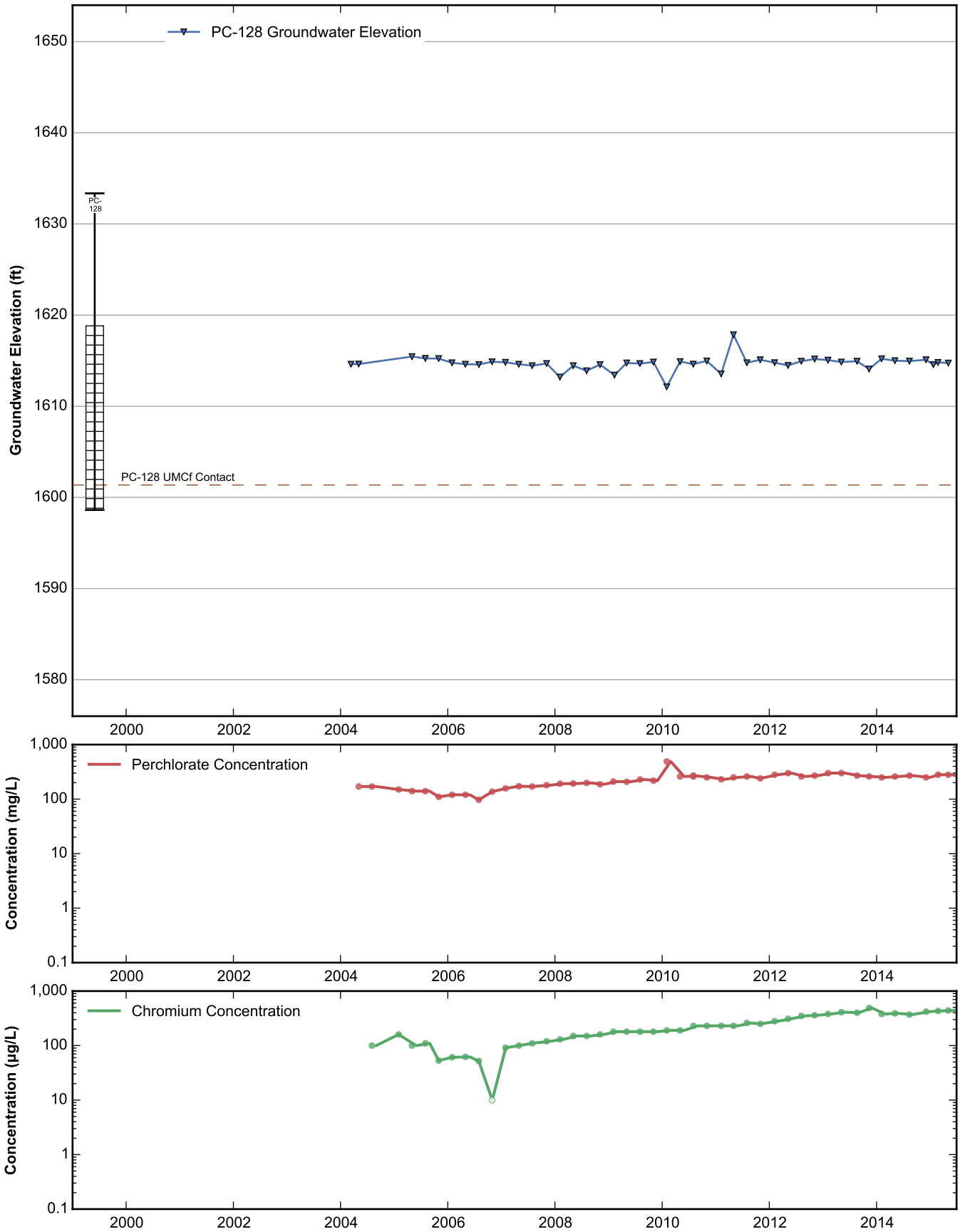

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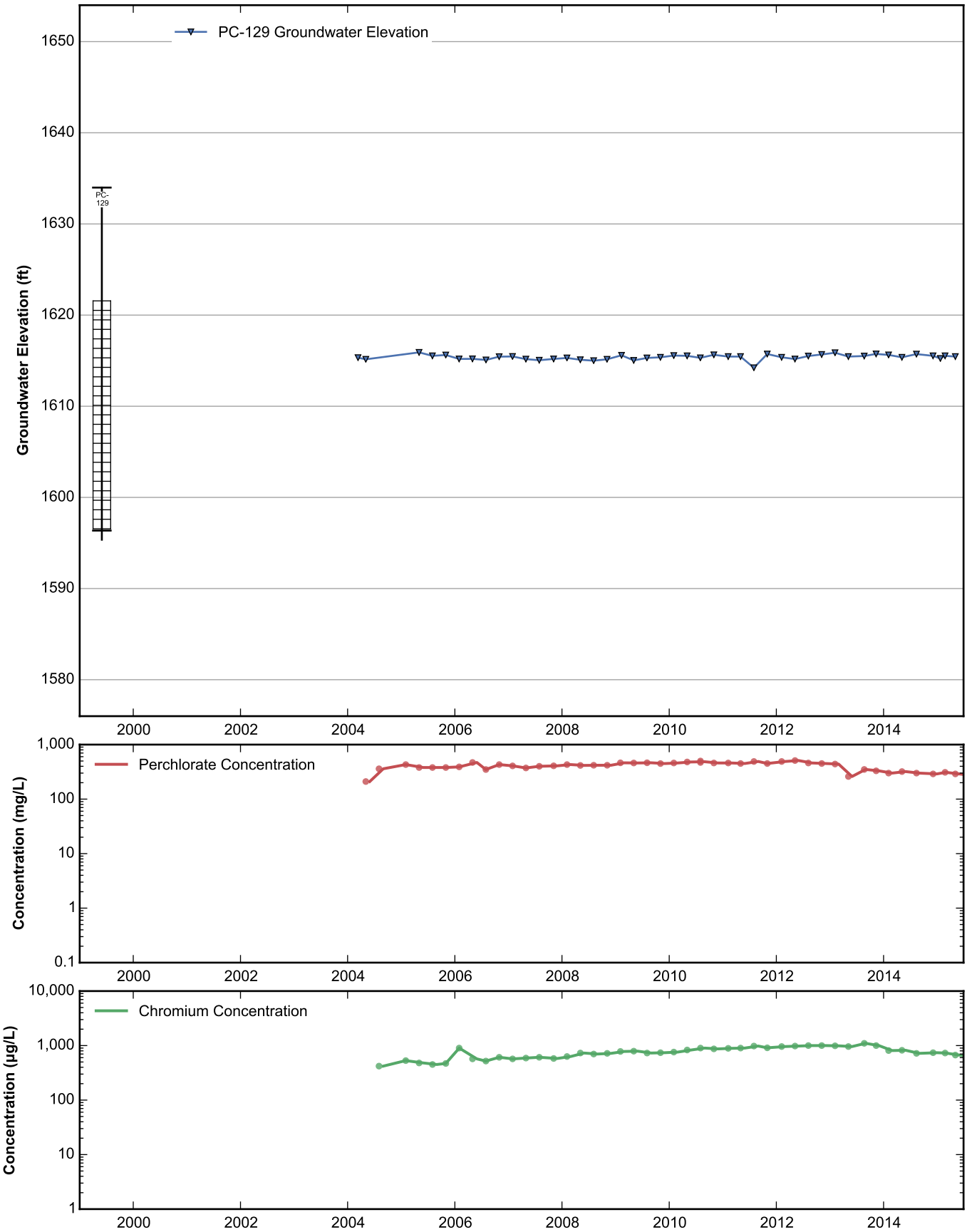
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:



RAMBOLL ENVIRON

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Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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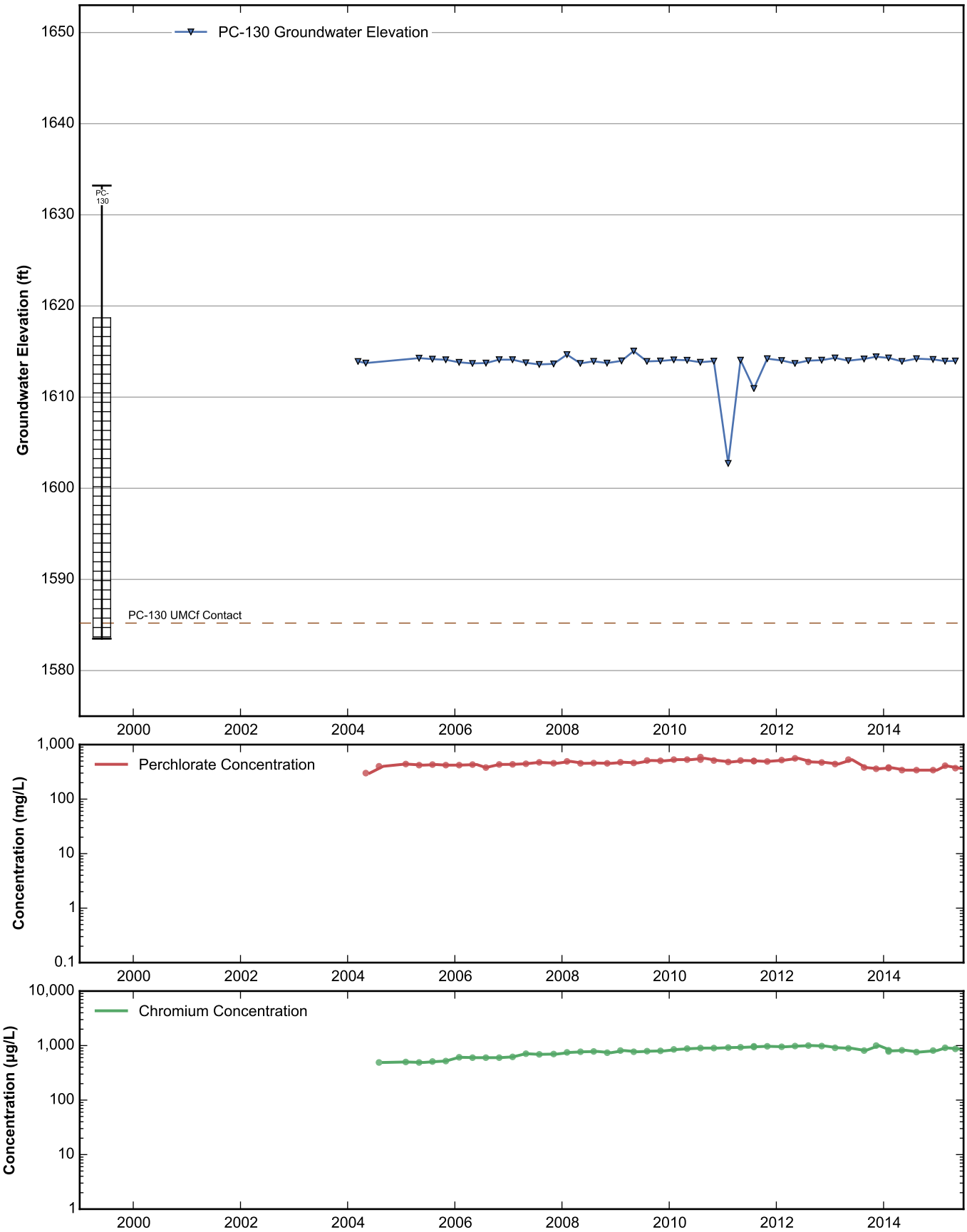

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Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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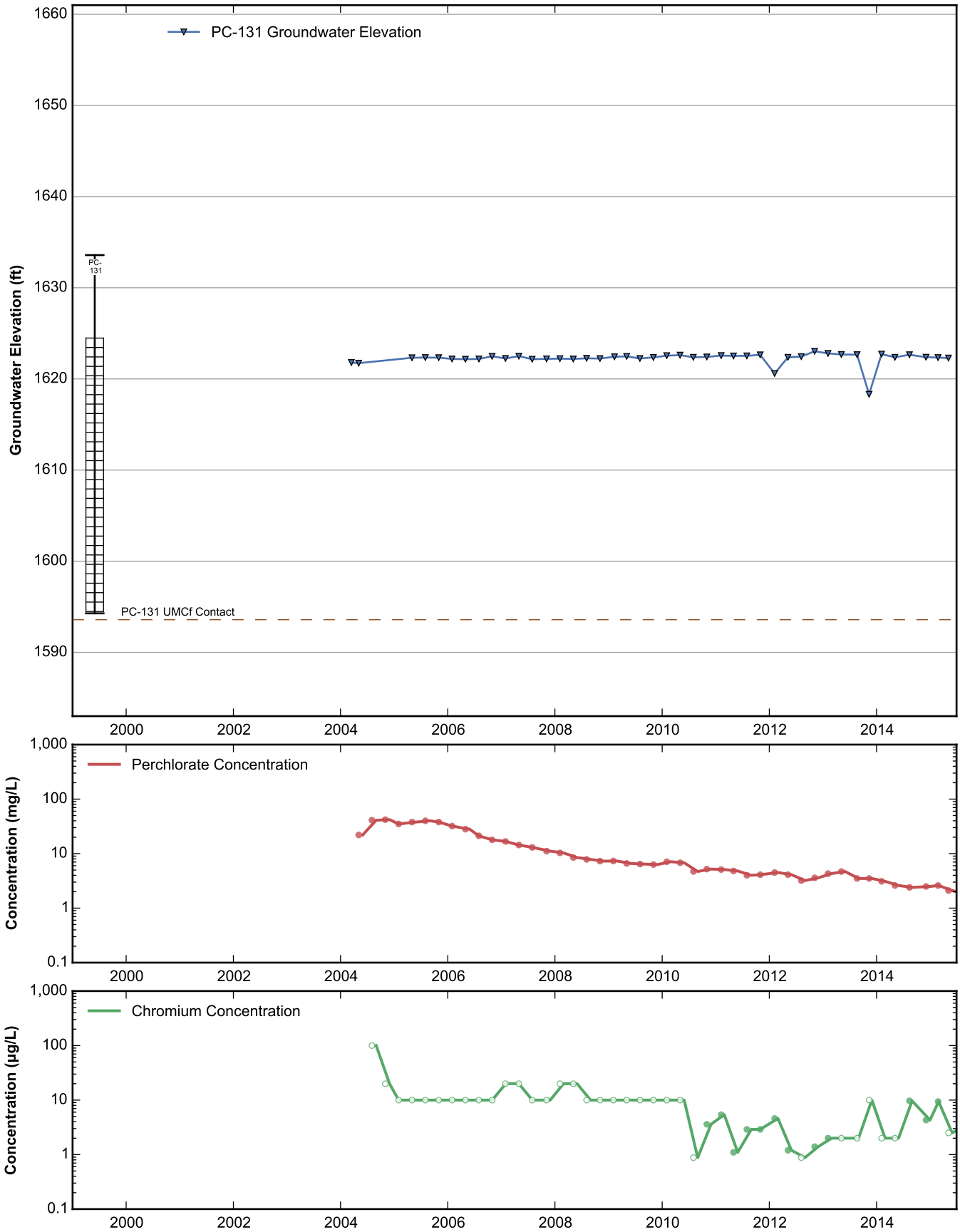

RAMBOLL ENVIRON

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Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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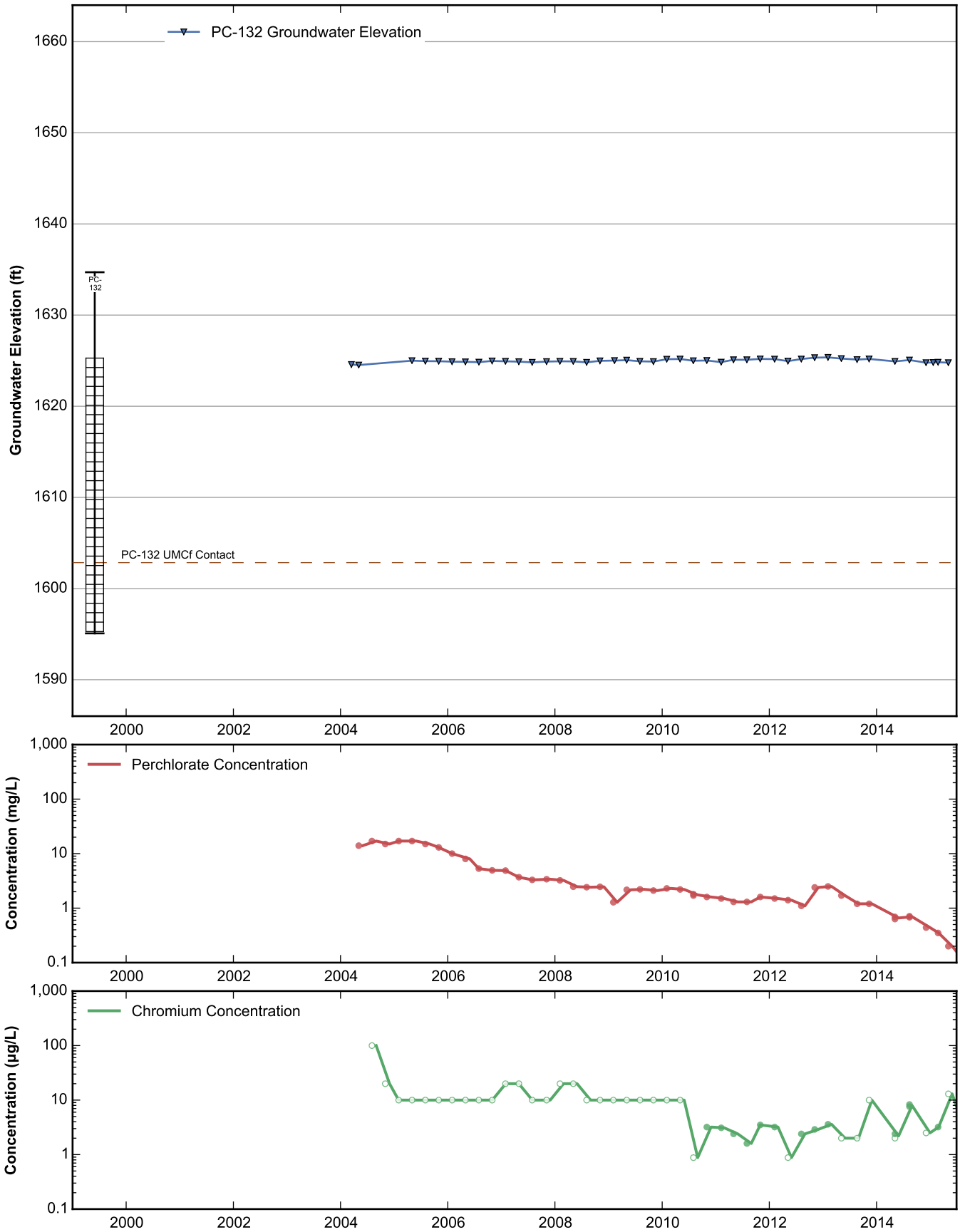

RAMBOLL ENVIRON

Data Sheet for Well PC-132
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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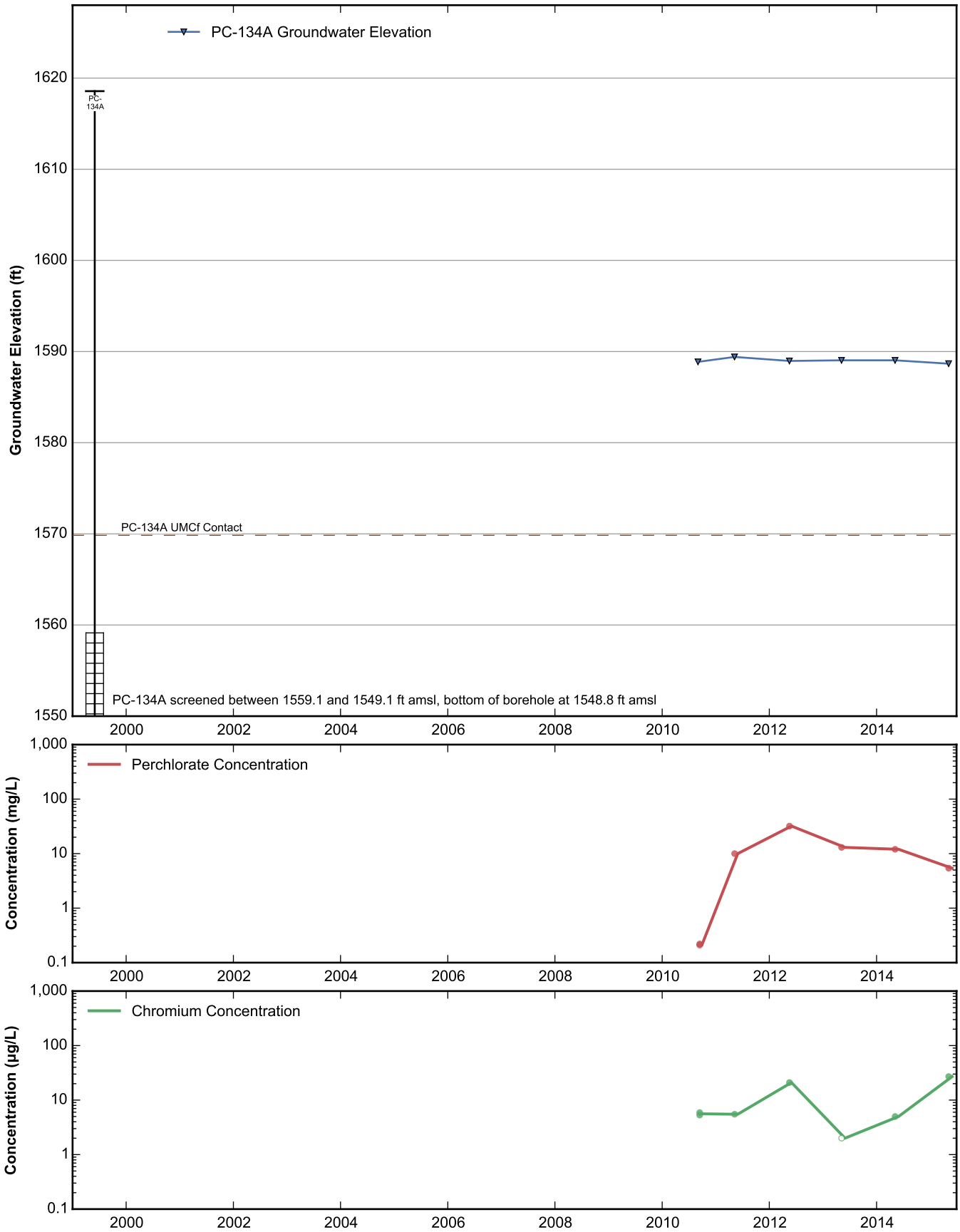

RAMBOLL ENVIRON

Data Sheet for Well PC-134A
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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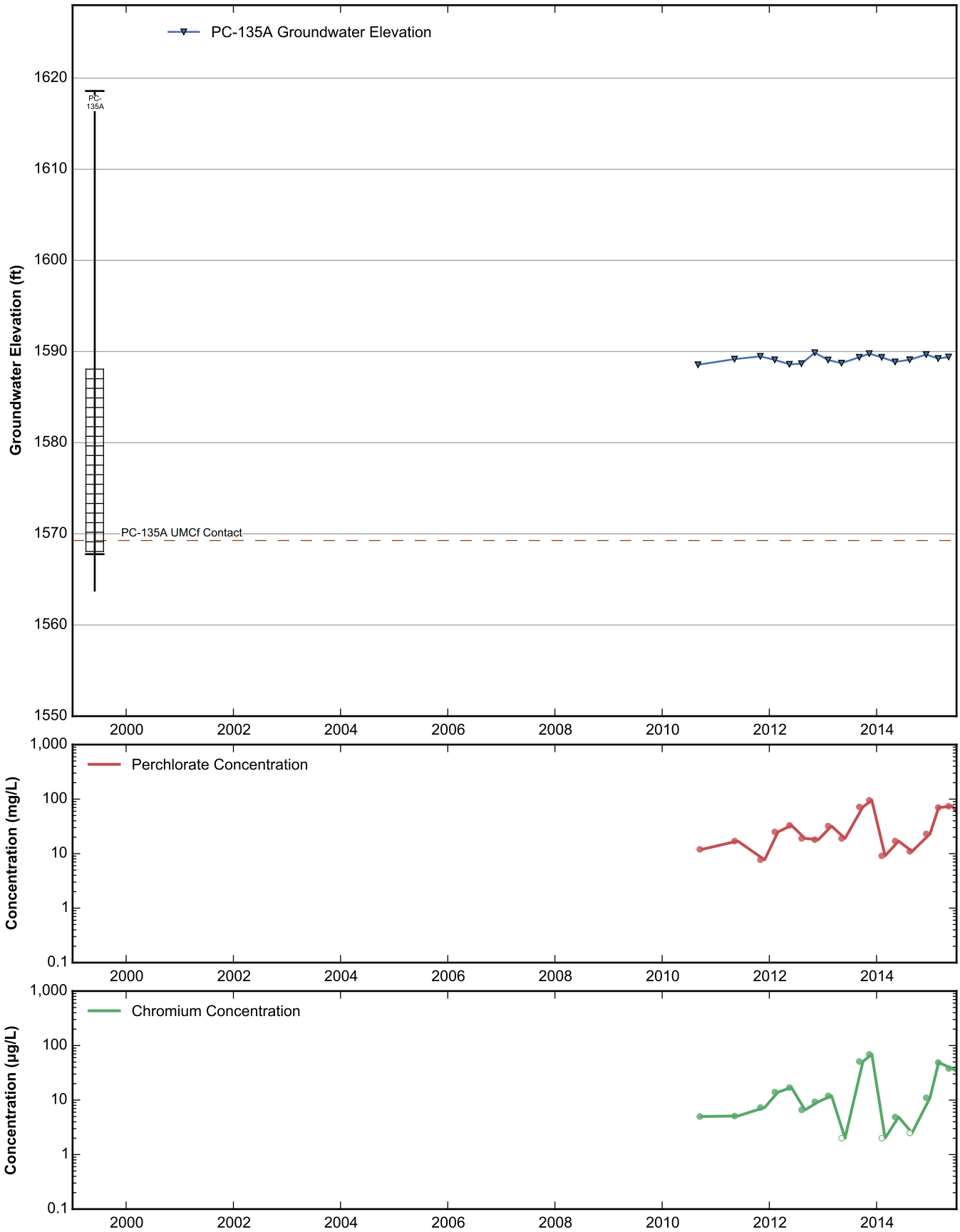

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Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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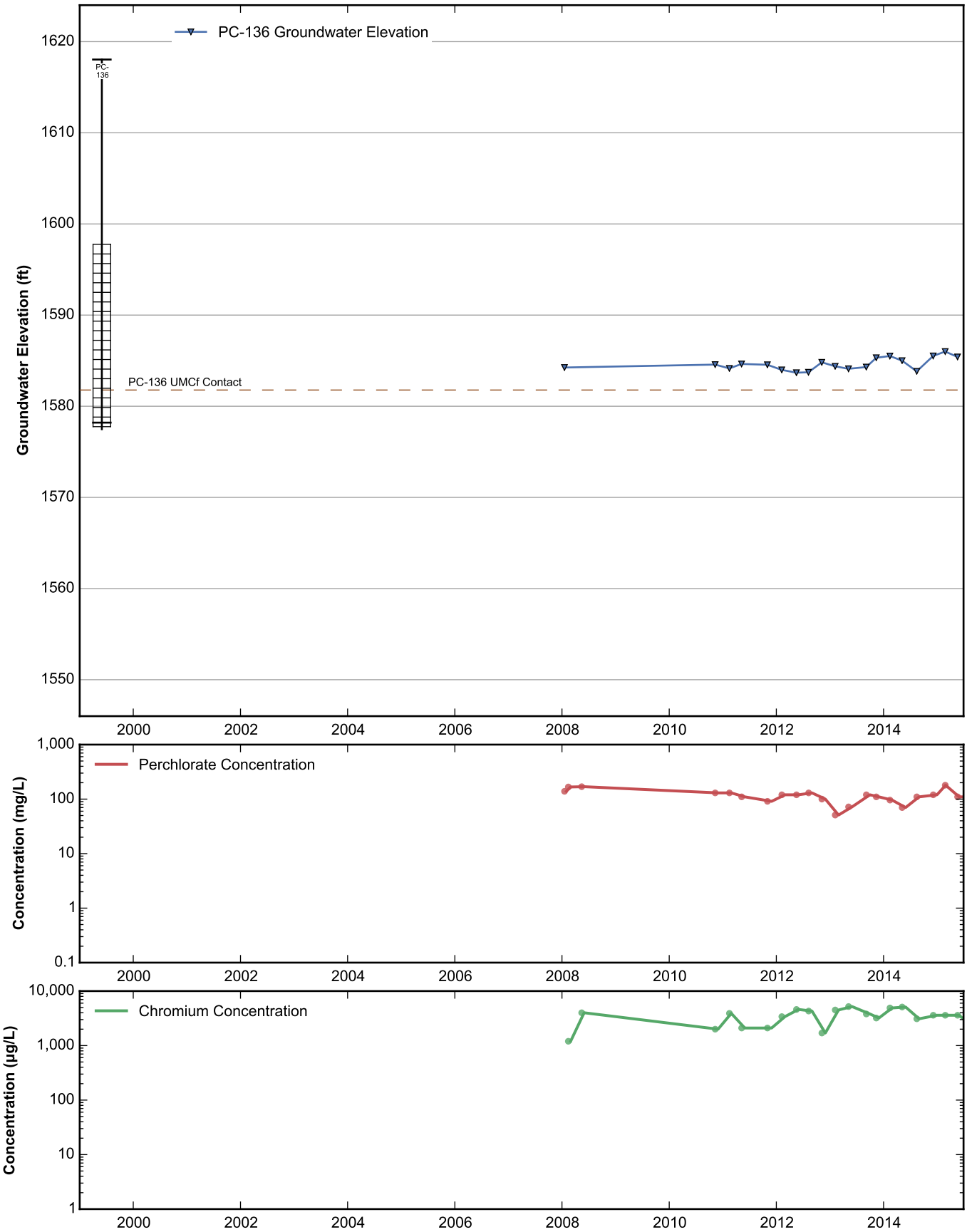

RAMBOLL ENVIRON

Data Sheet for Well PC-136
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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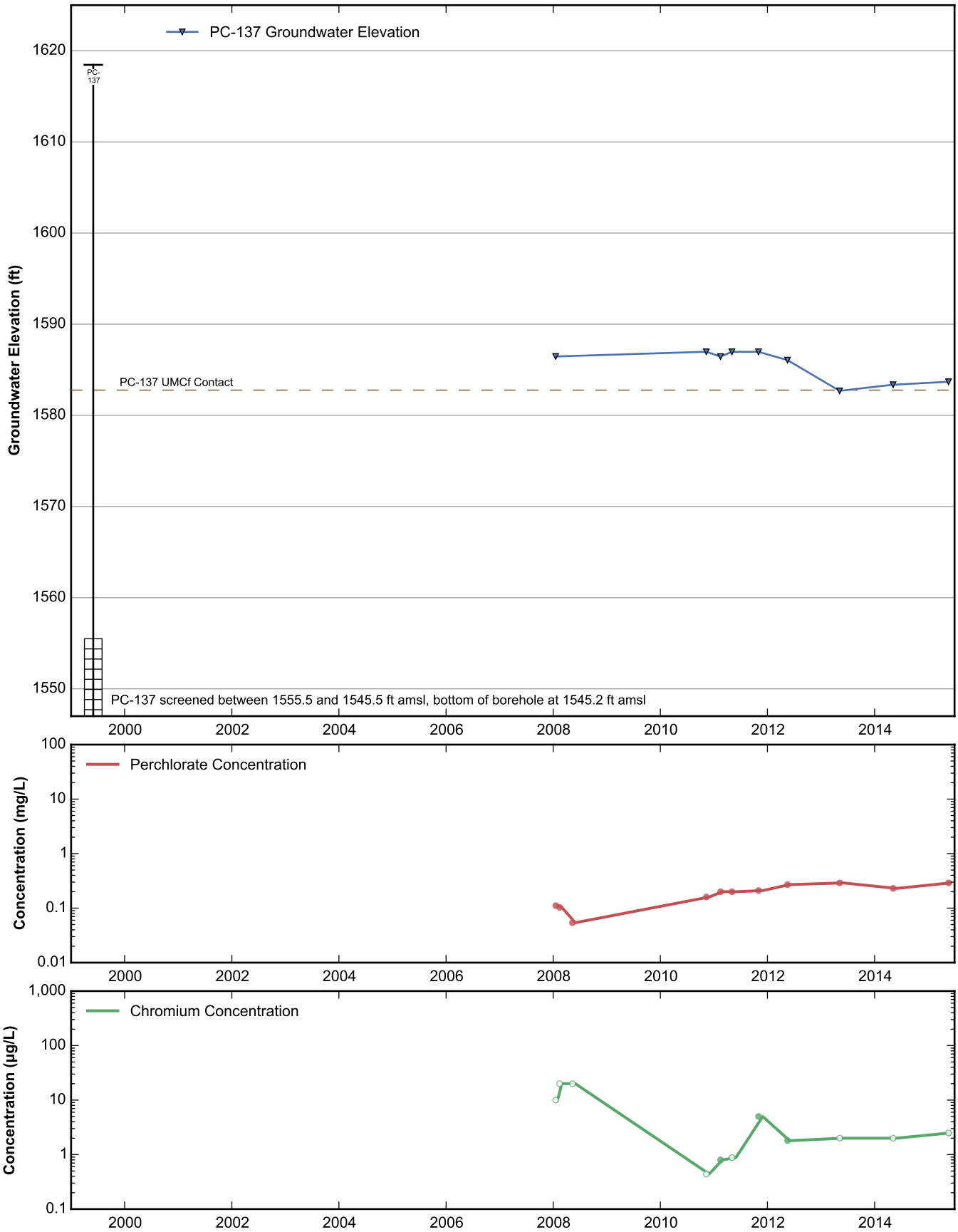

RAMBOLL ENVIRON

Data Sheet for Well PC-137
Nevada Environmental Response Trust Site
Henderson, Nevada

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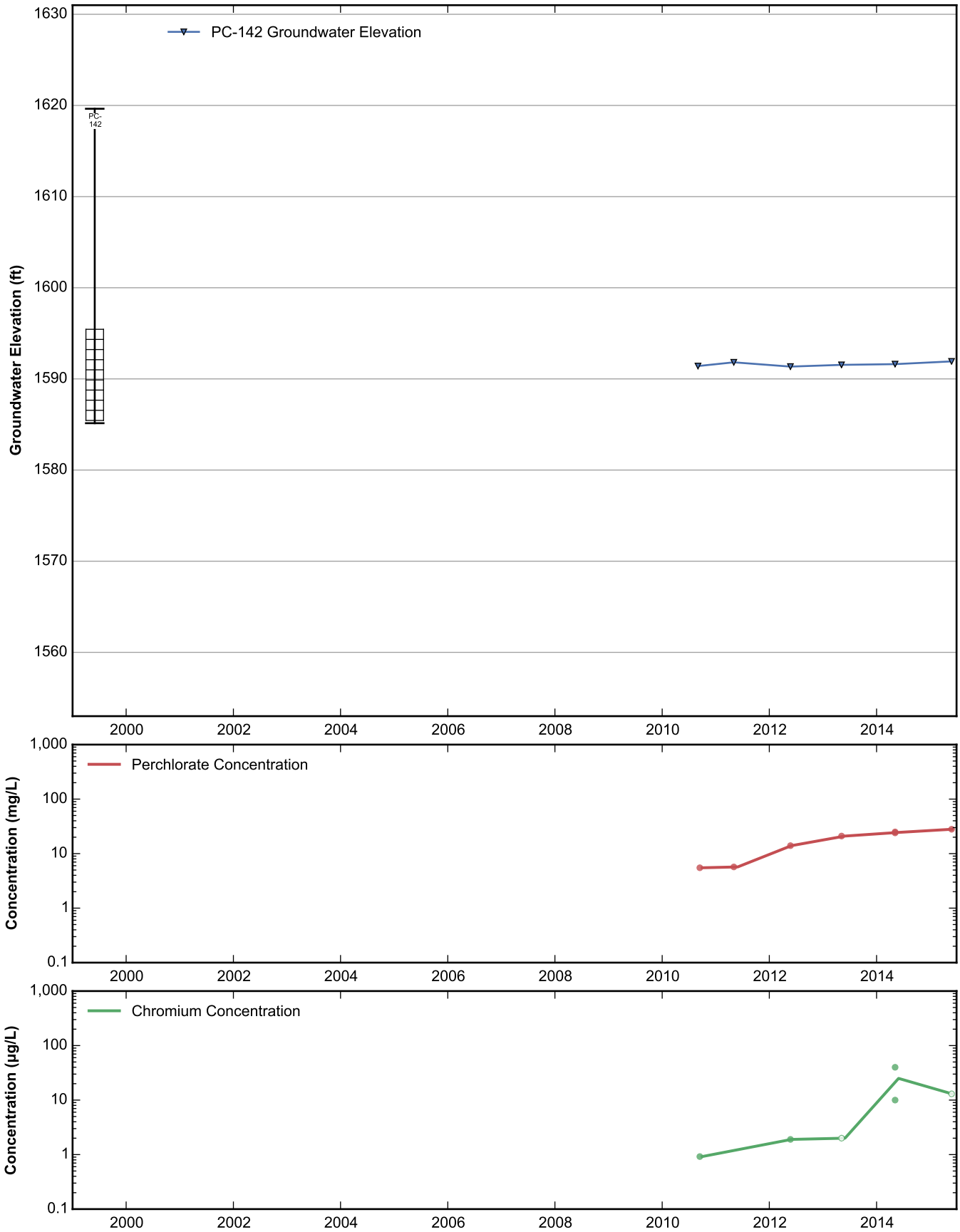

RAMBOLL ENVIRON

Data Sheet for Well PC-142
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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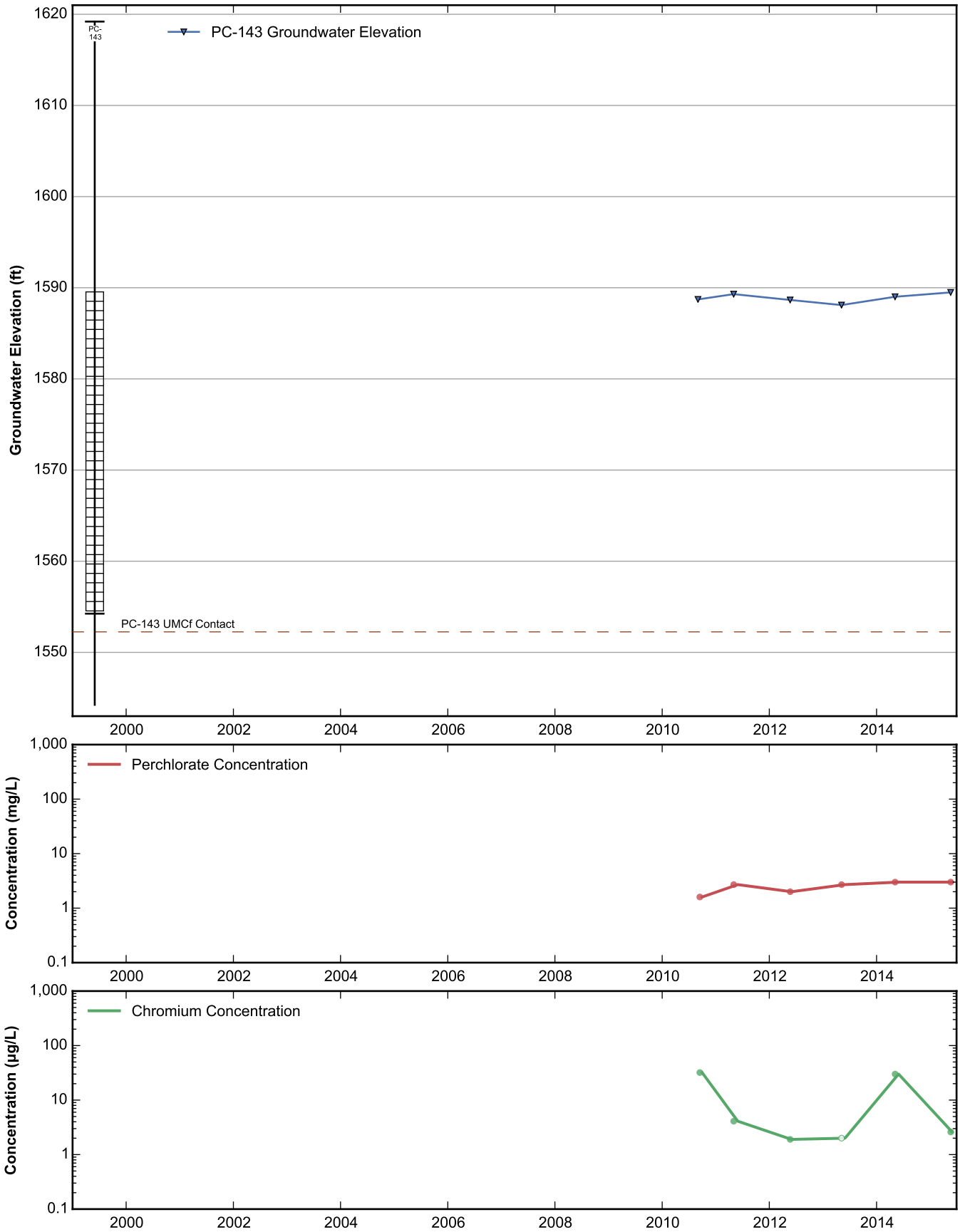

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Data Sheet for Well PC-143
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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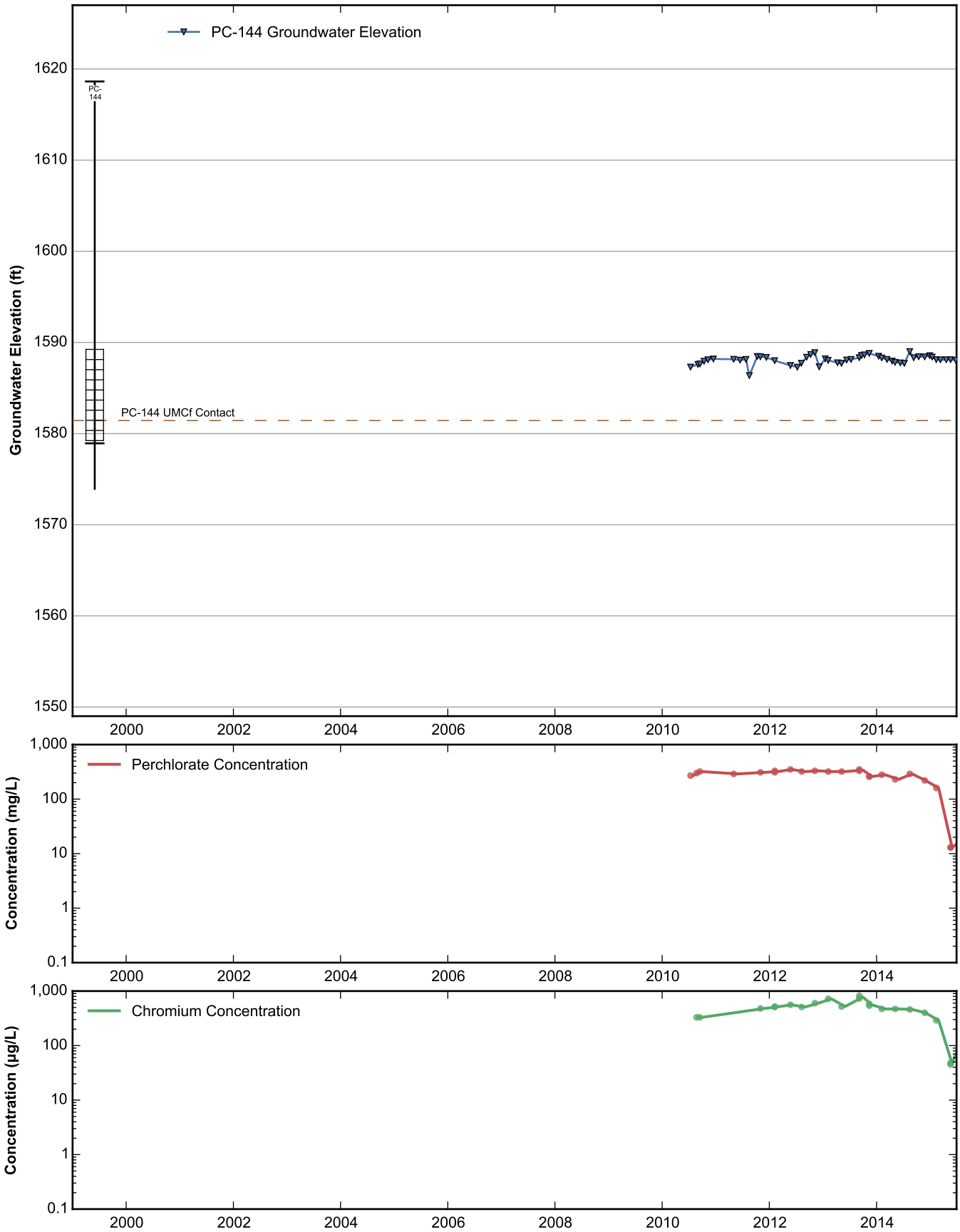

RAMBOLL ENVIRON

Data Sheet for Well PC-144
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH | Date: 10/28/15 | Contract Number: 21-37300A | Approved: | Revised:

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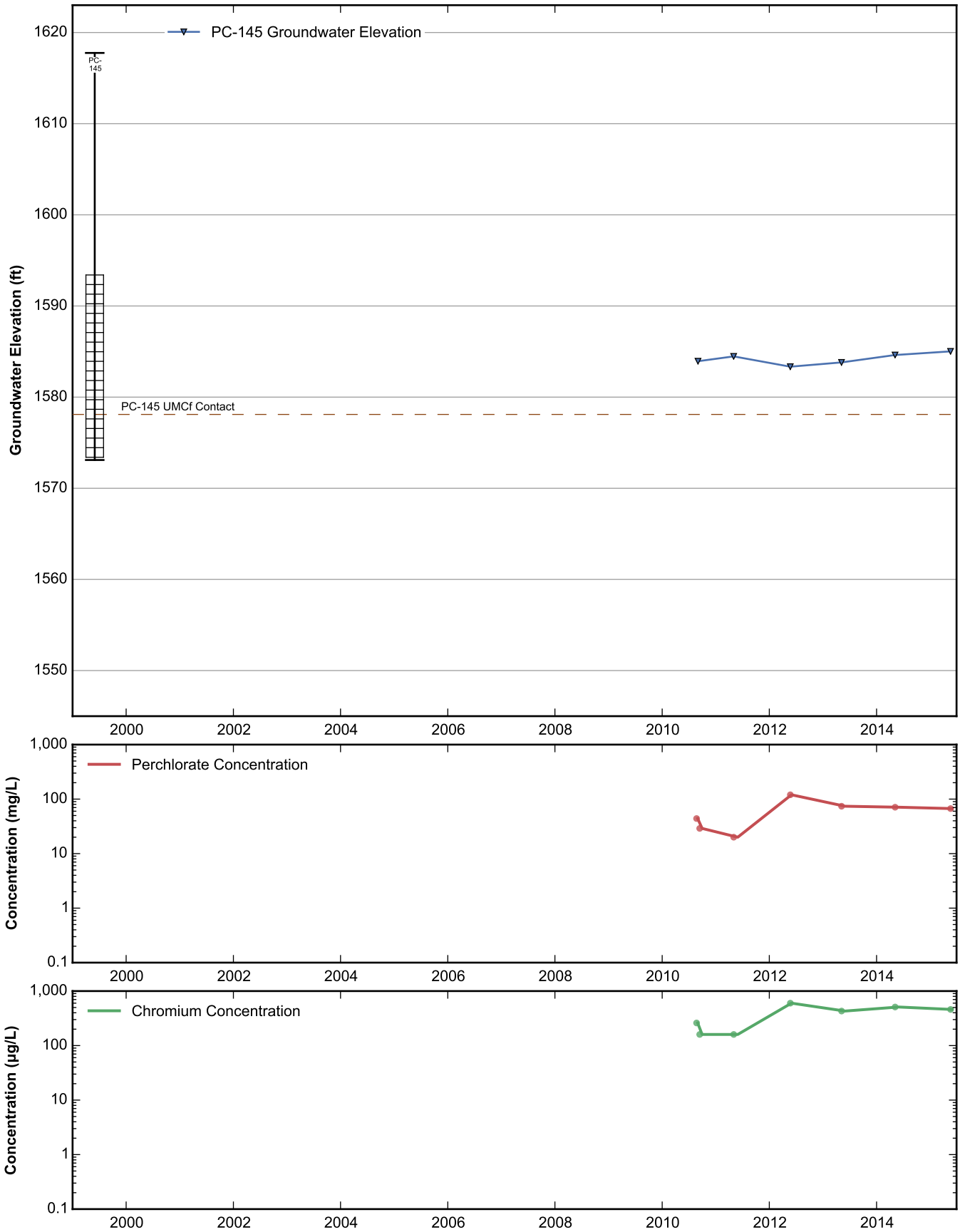

RAMBOLL ENVIRON

Data Sheet for Well PC-145
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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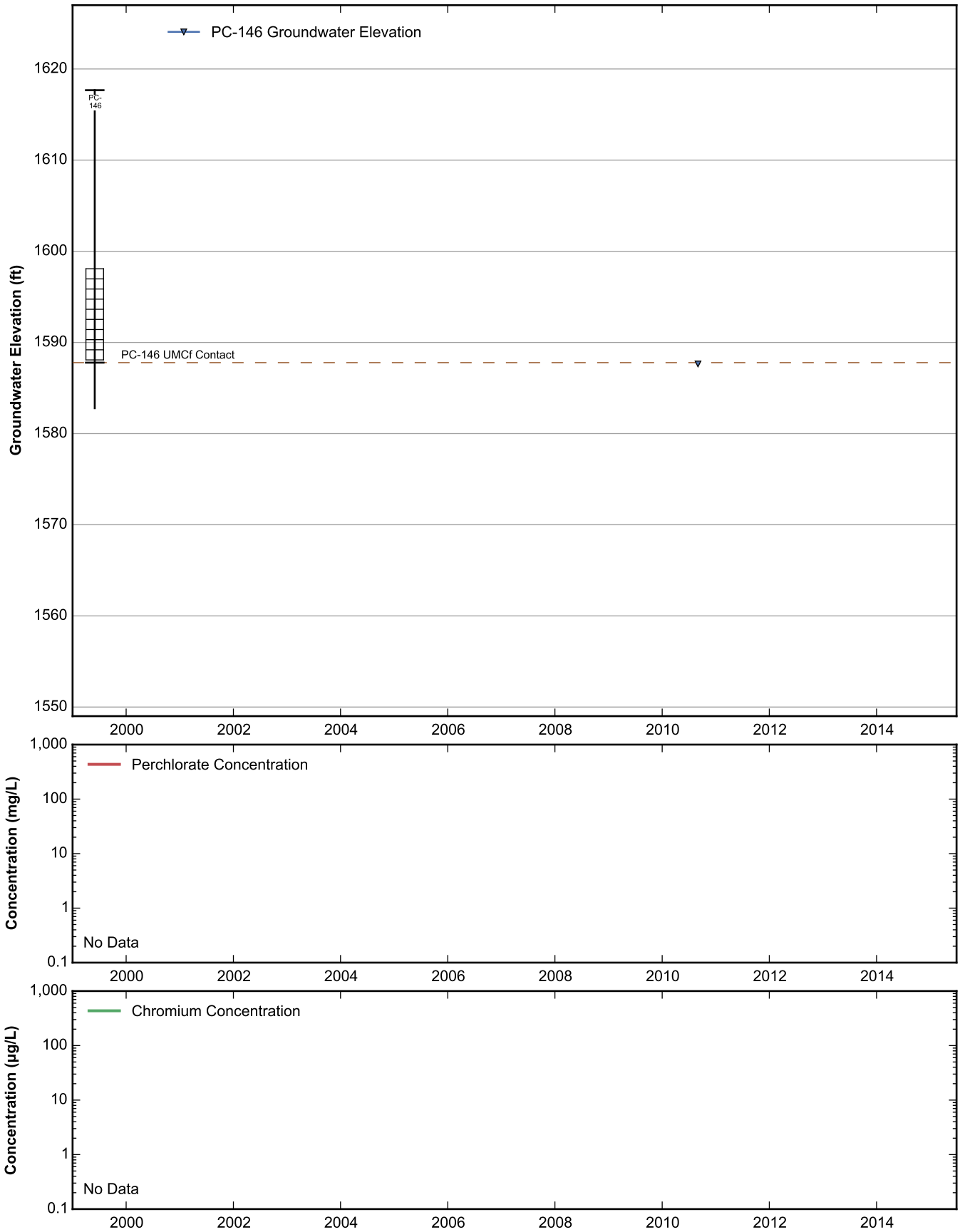

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Nevada Environmental Response Trust Site
Henderson, Nevada

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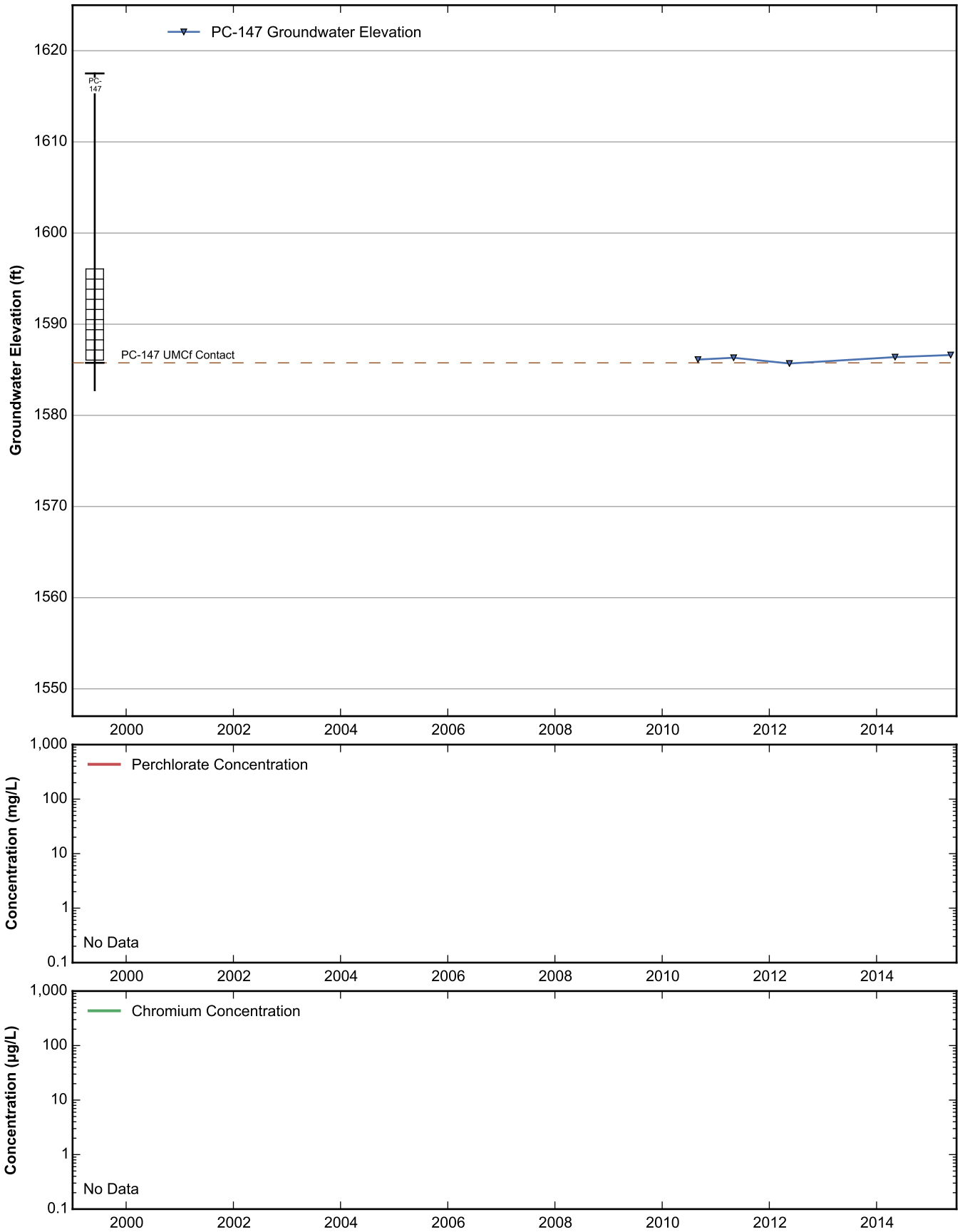

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Nevada Environmental Response Trust Site
Henderson, Nevada

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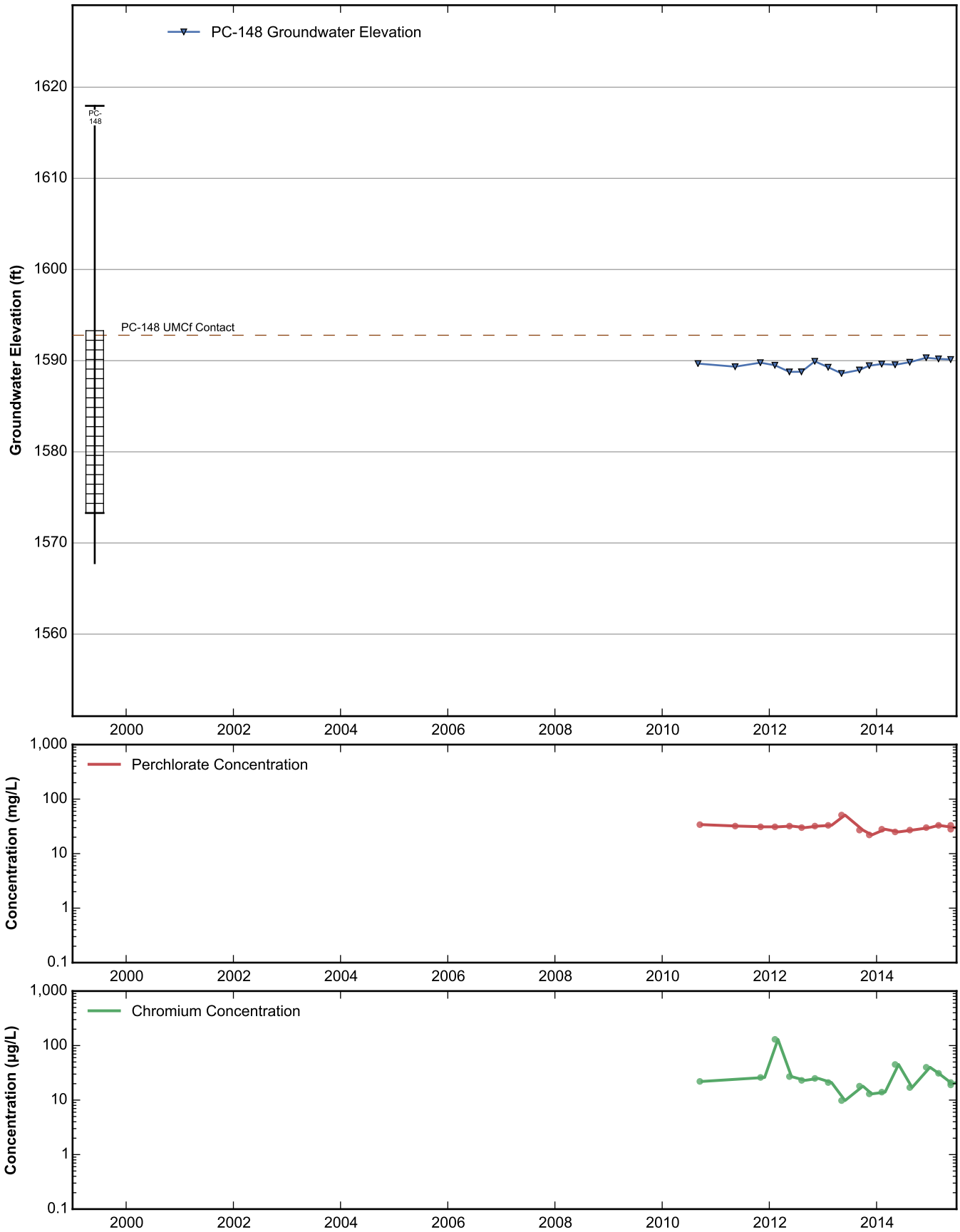

RAMBOLL ENVIRON

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Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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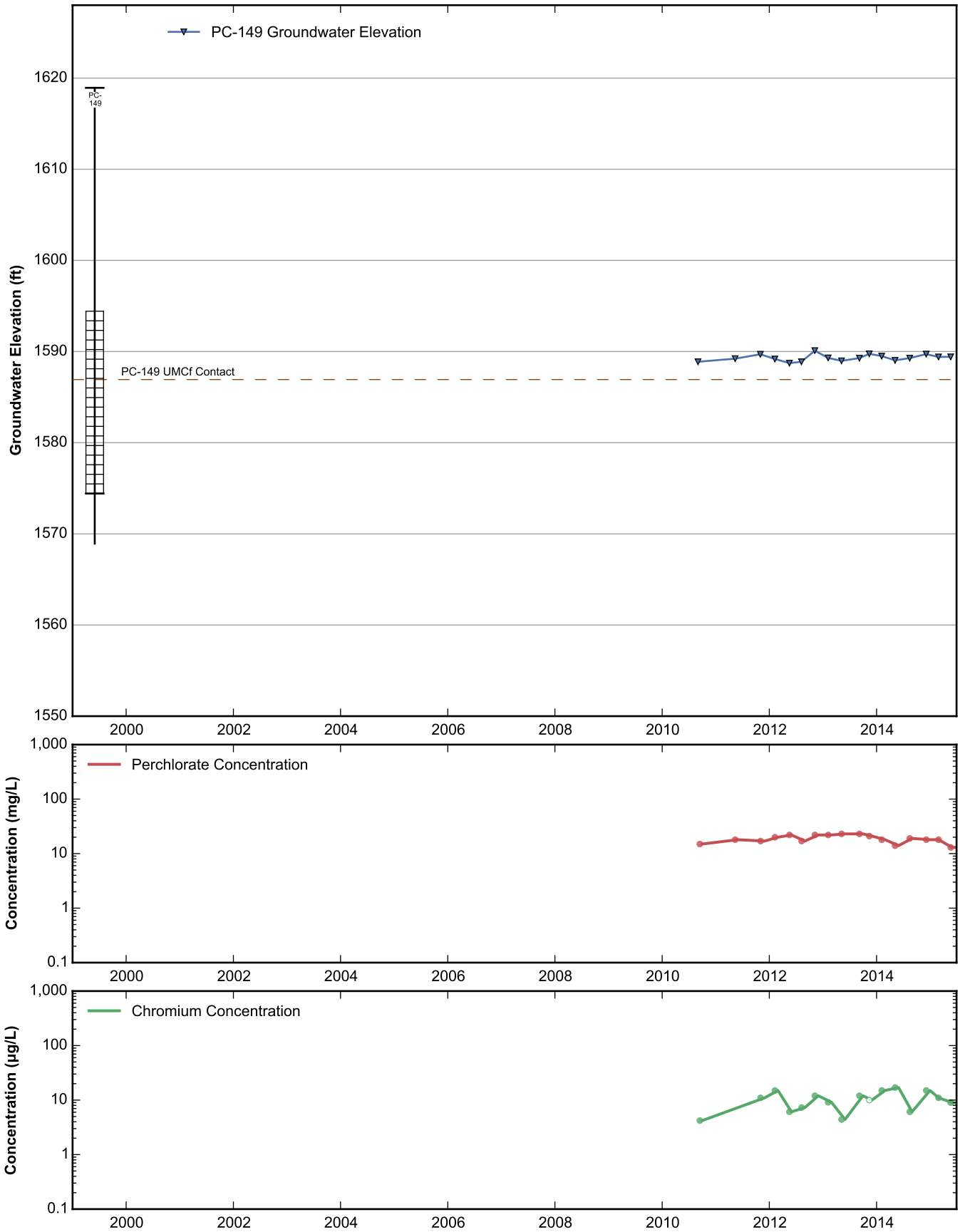

RAMBOLL ENVIRON

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Nevada Environmental Response Trust Site
Henderson, Nevada

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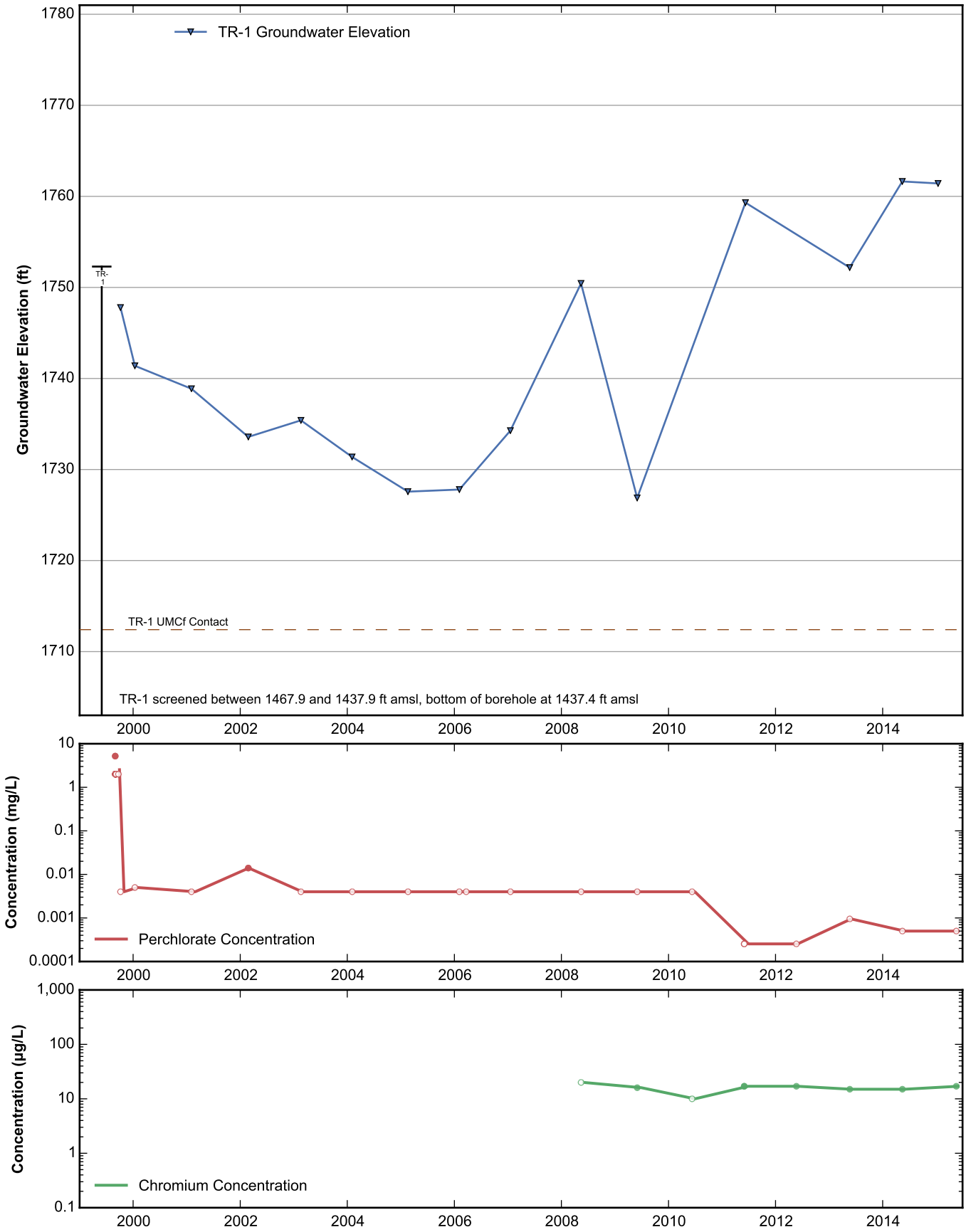

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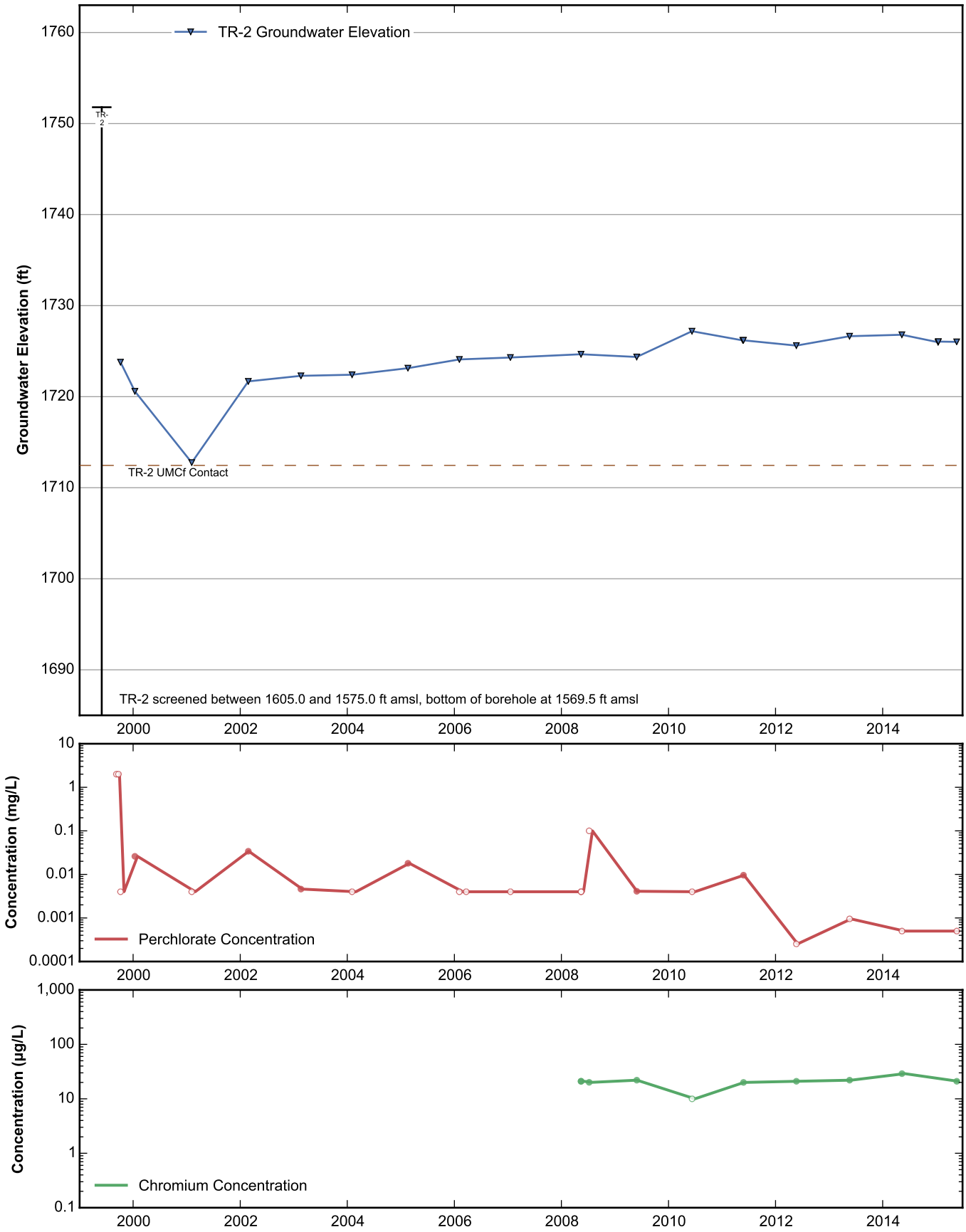
Data Sheet for Well TR-1
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:



RAMBOLL ENVIRON

Data Sheet for Well TR-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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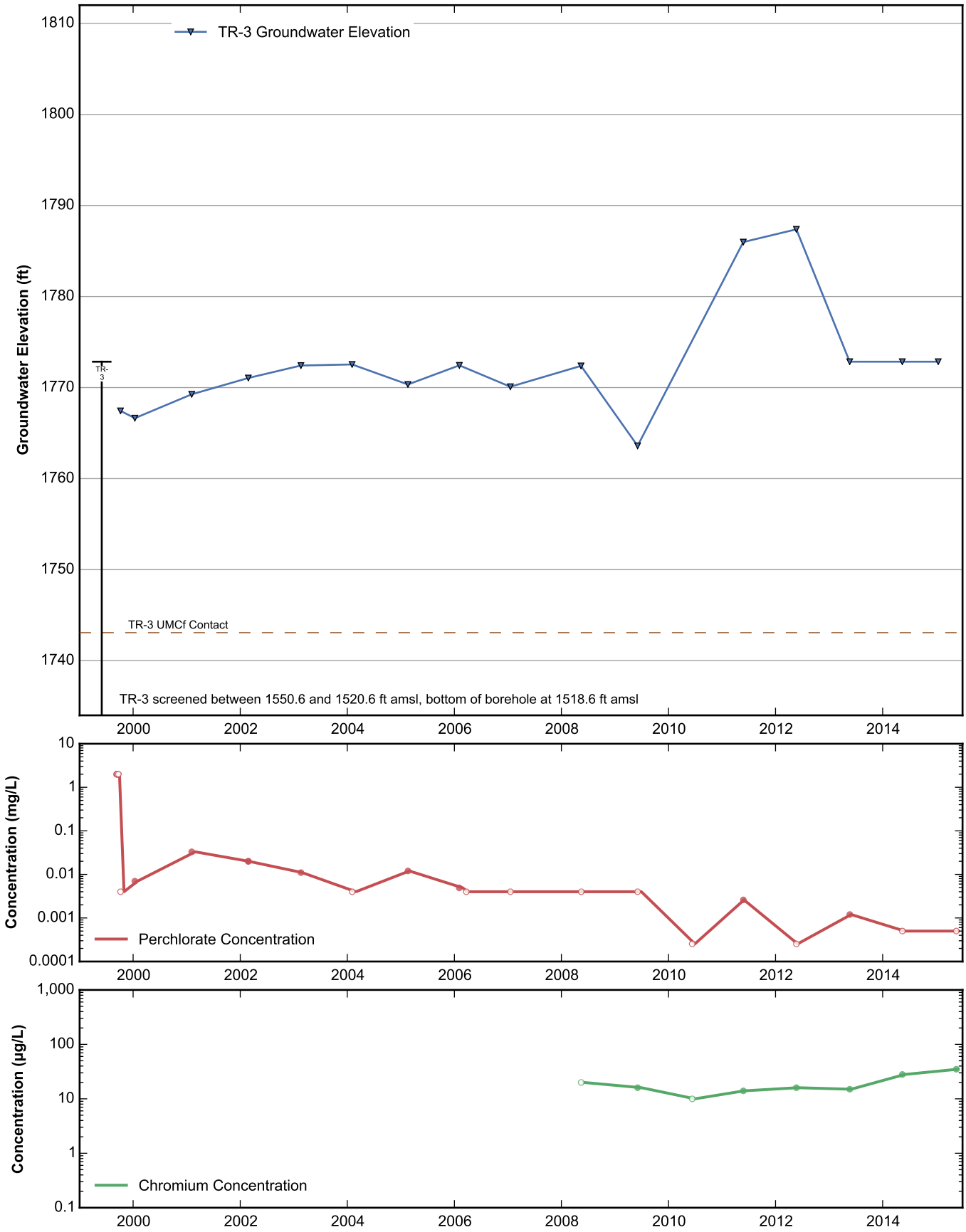

RAMBOLL ENVIRON

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Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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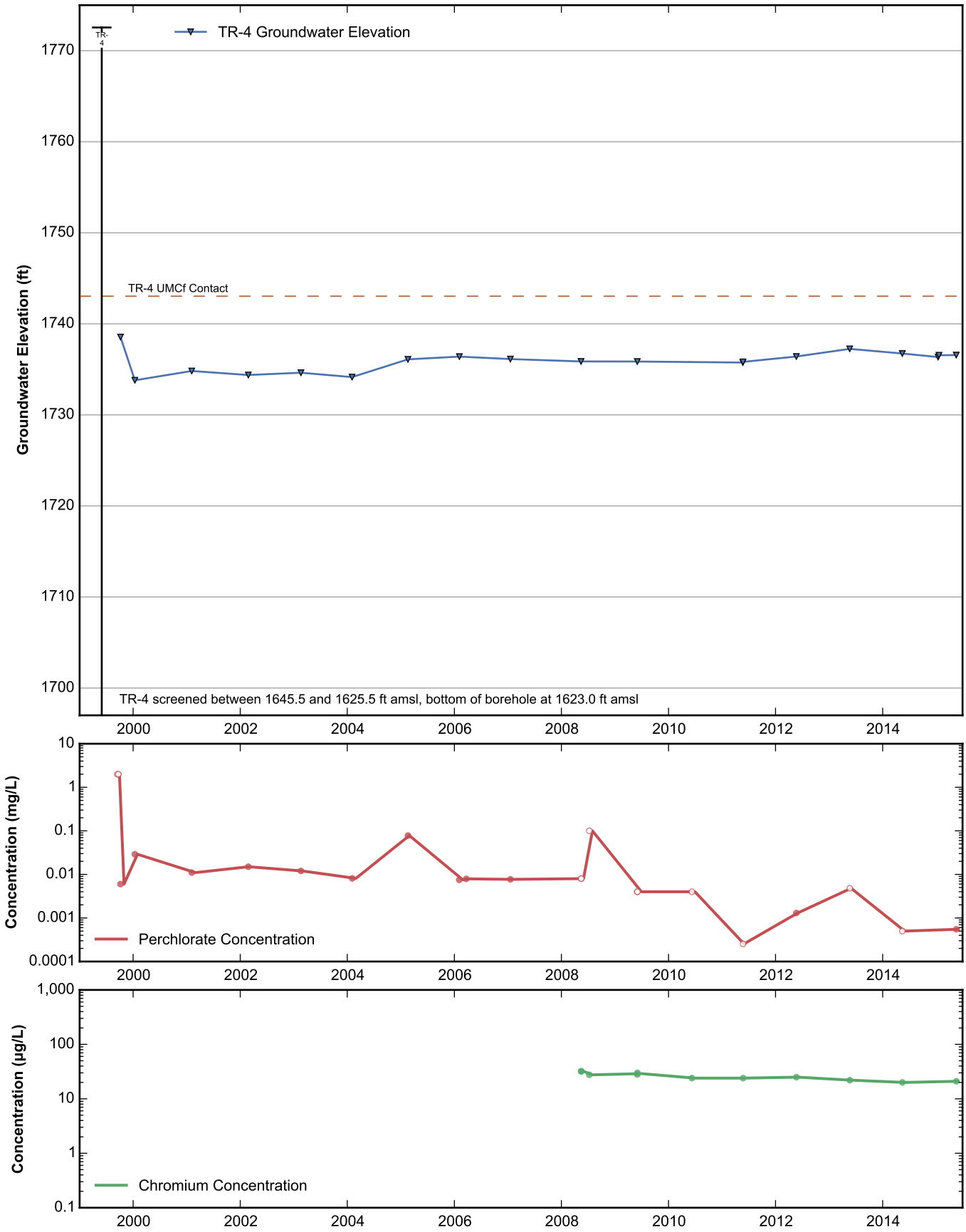

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Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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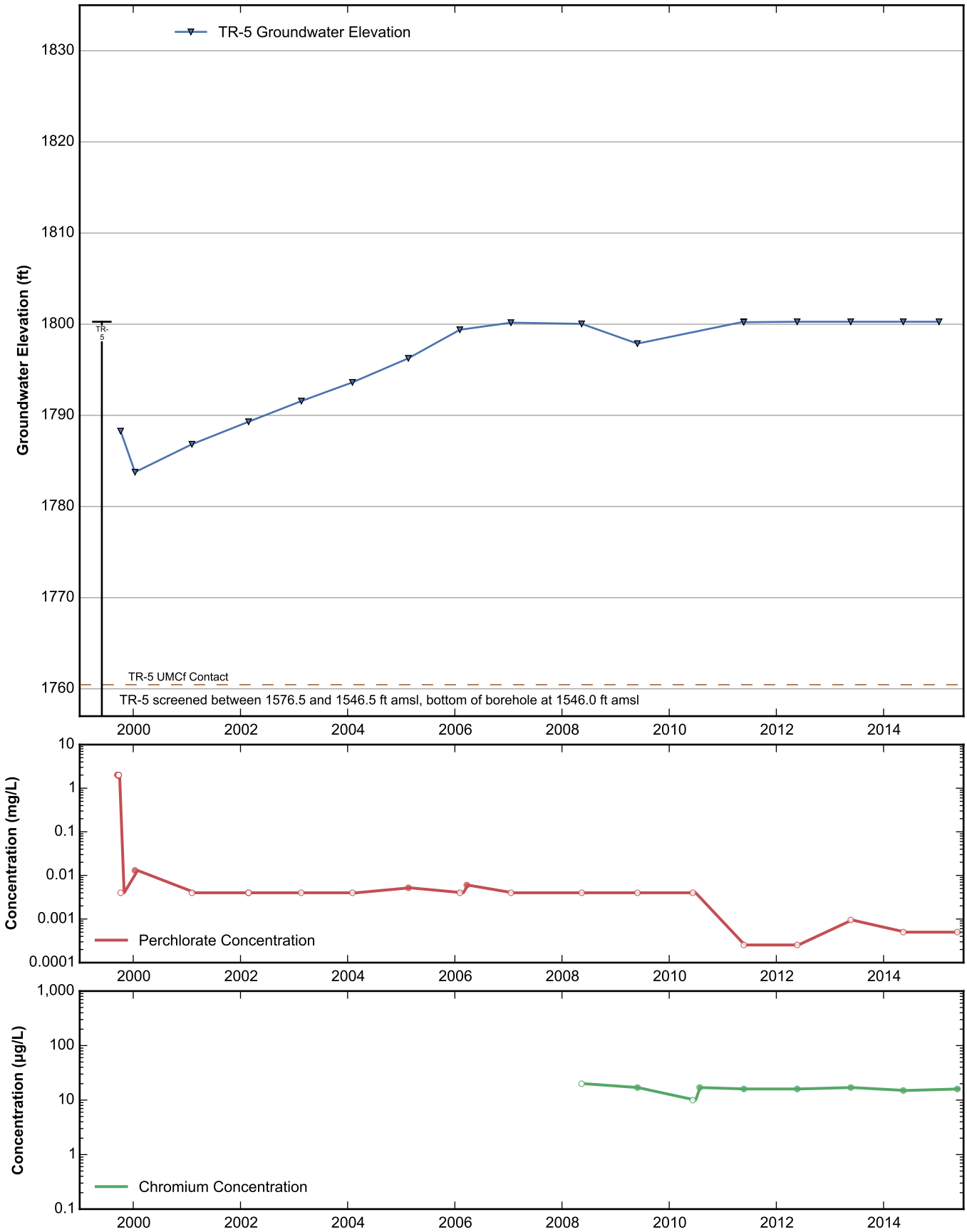

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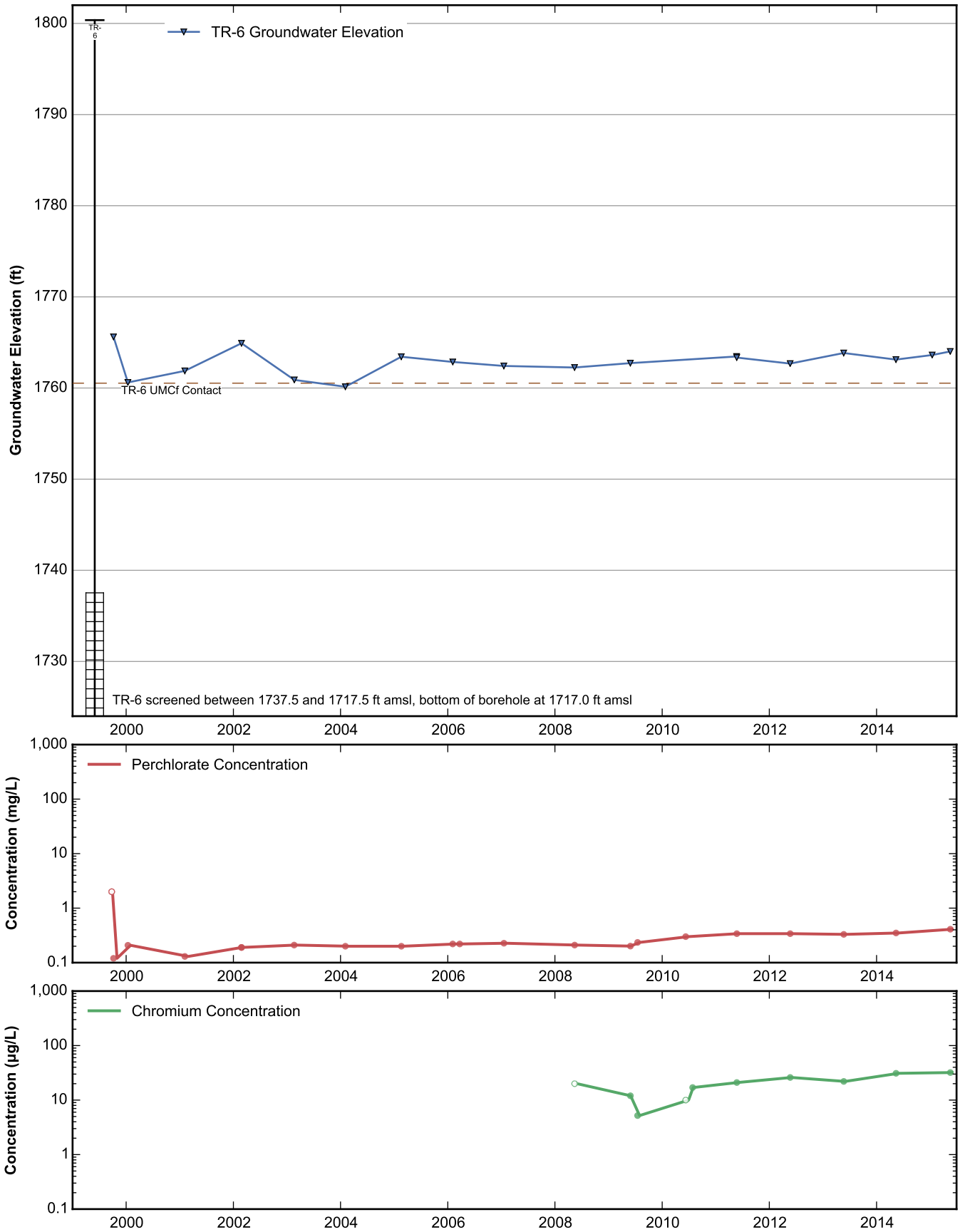
Data Sheet for Well TR-5
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:



RAMBOLL ENVIRON

Data Sheet for Well TR-6
Nevada Environmental Response Trust Site
Henderson, Nevada

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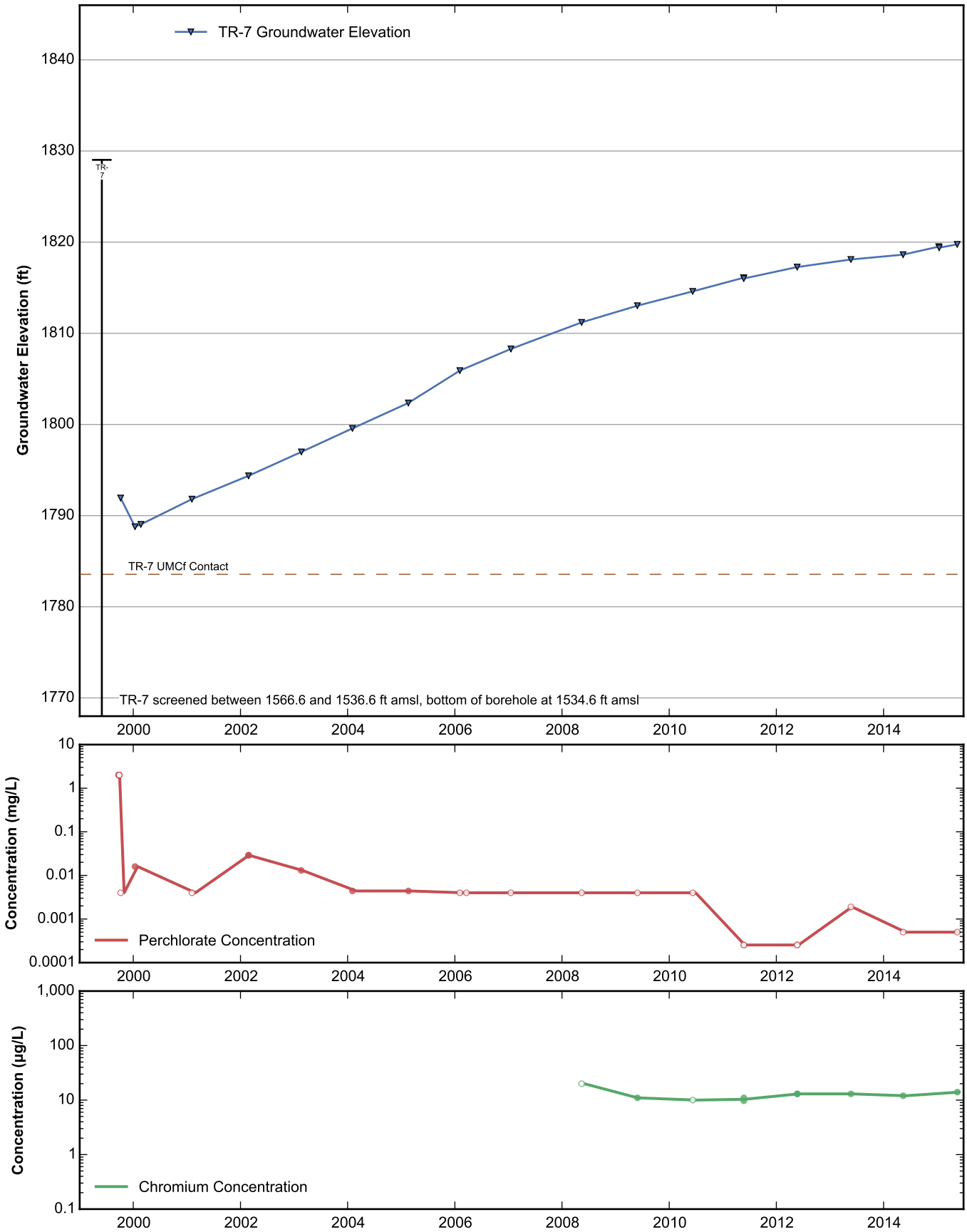

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Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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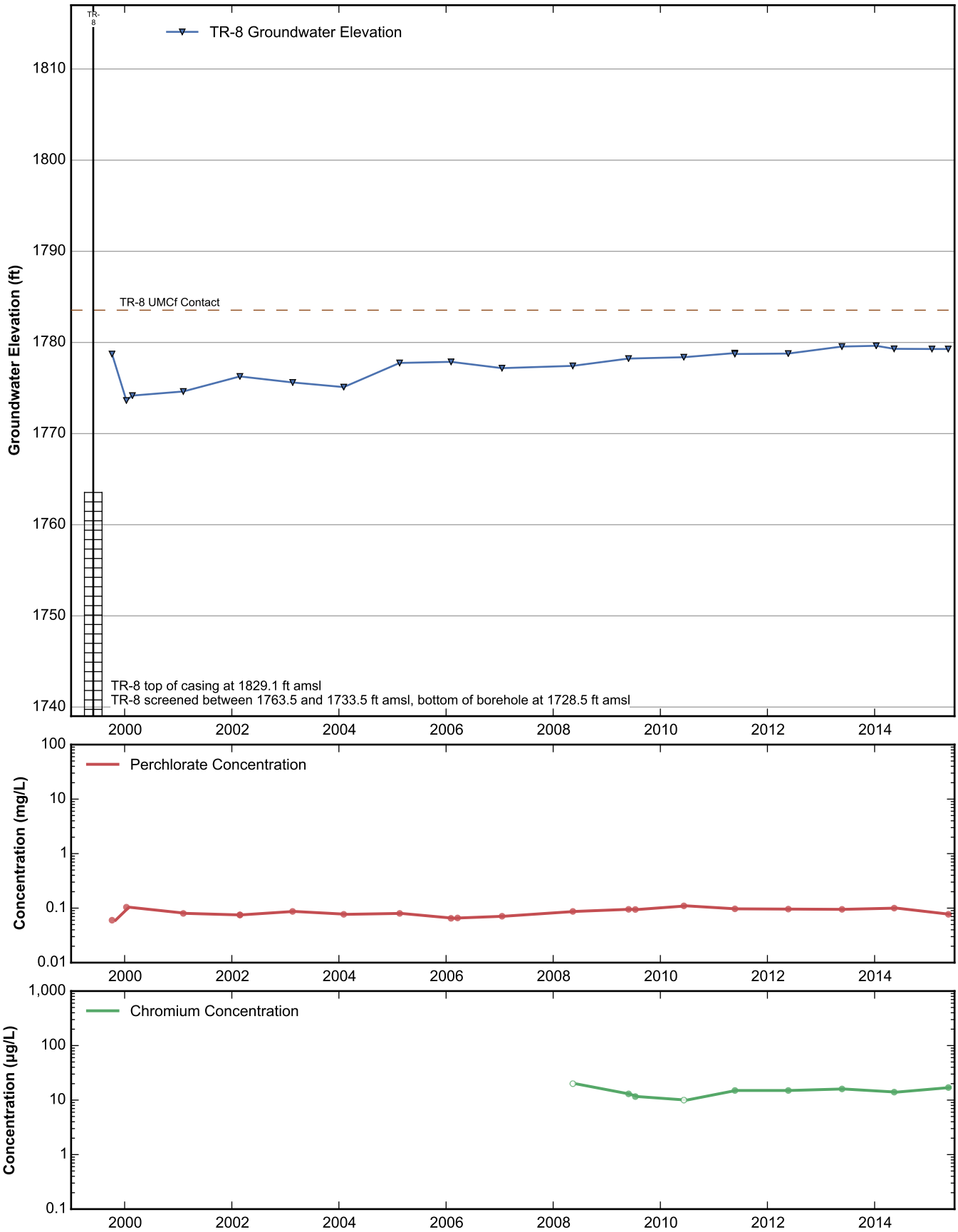

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Data Sheet for Well TR-8
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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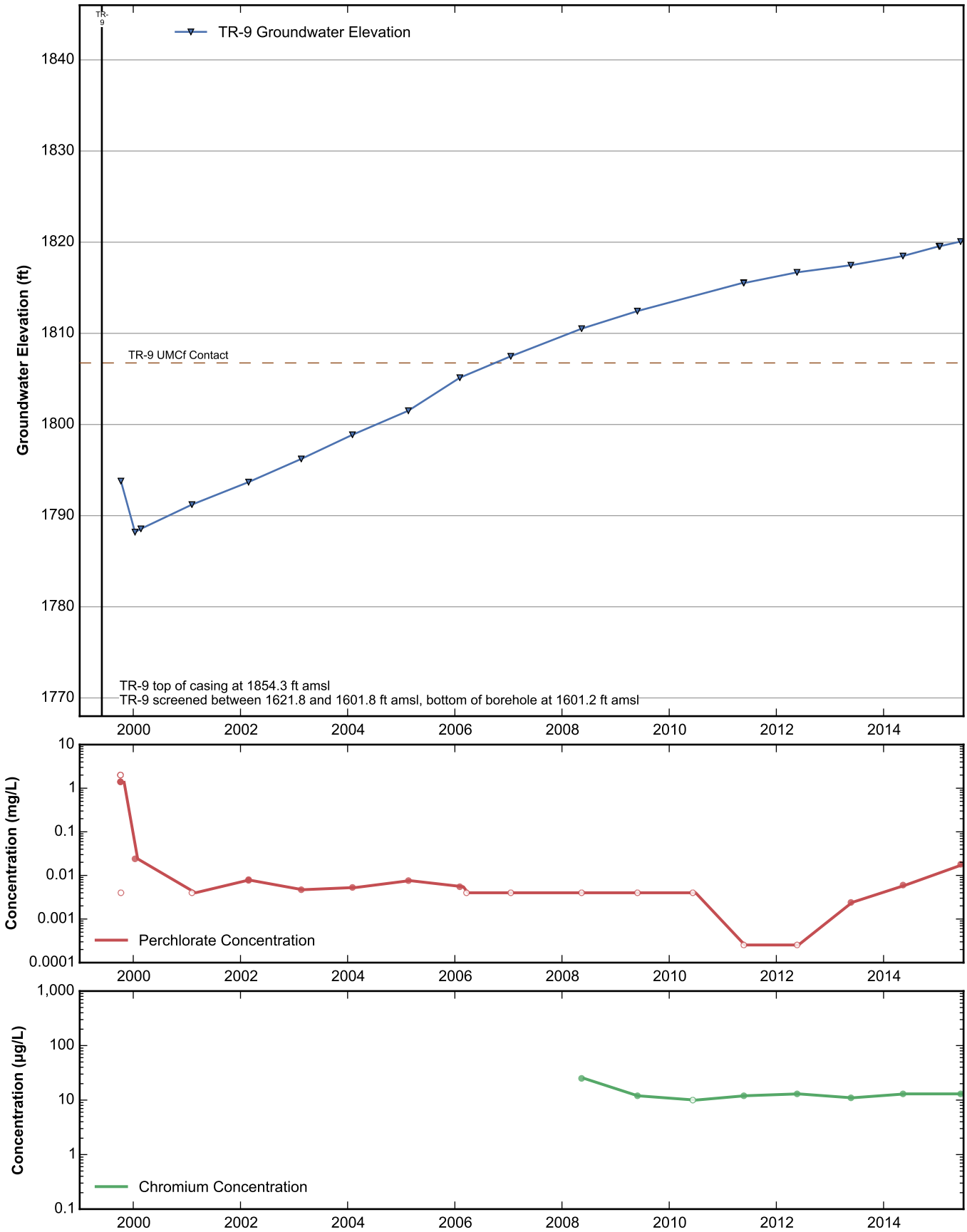

RAMBOLL ENVIRON

Data Sheet for Well TR-9
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

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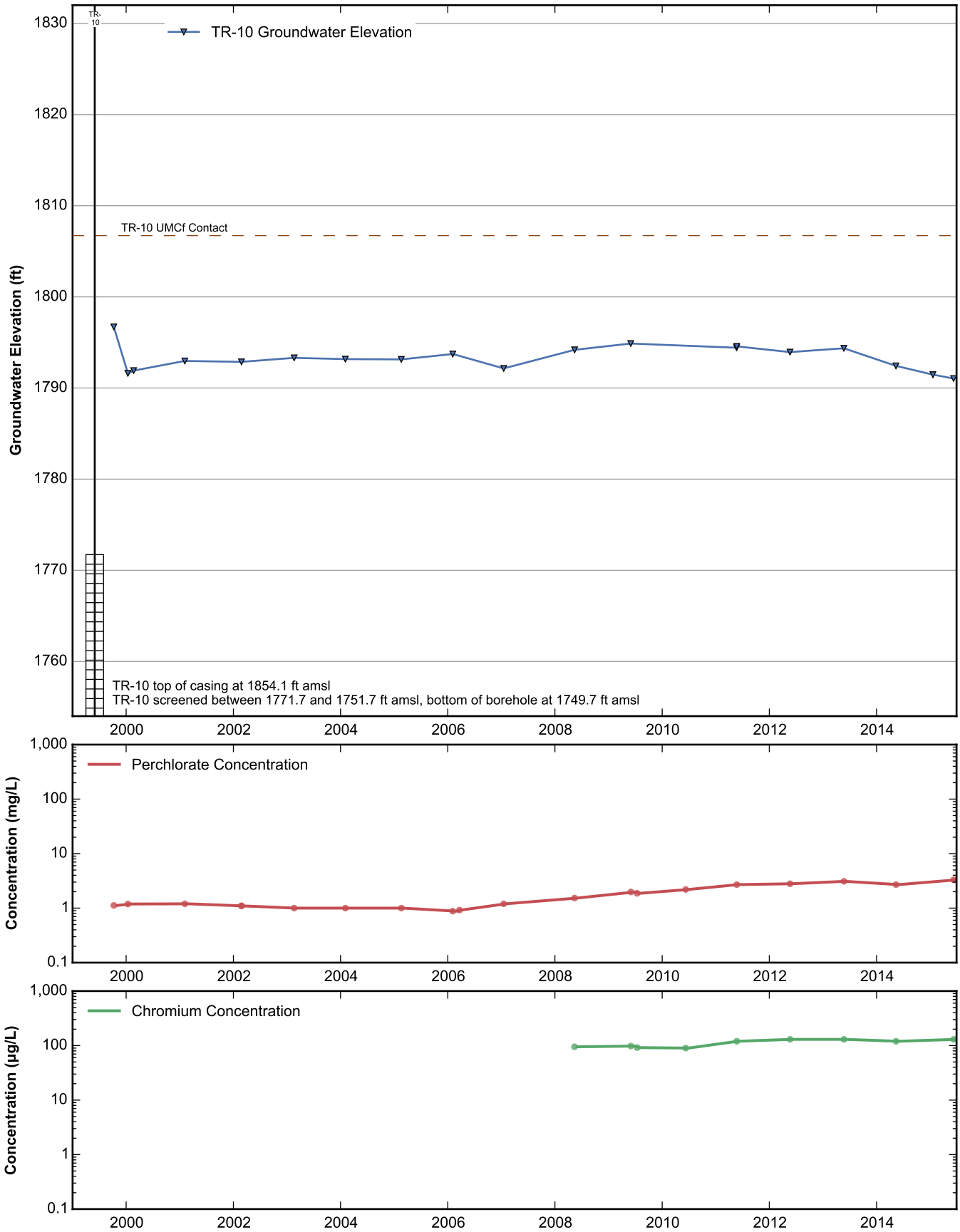
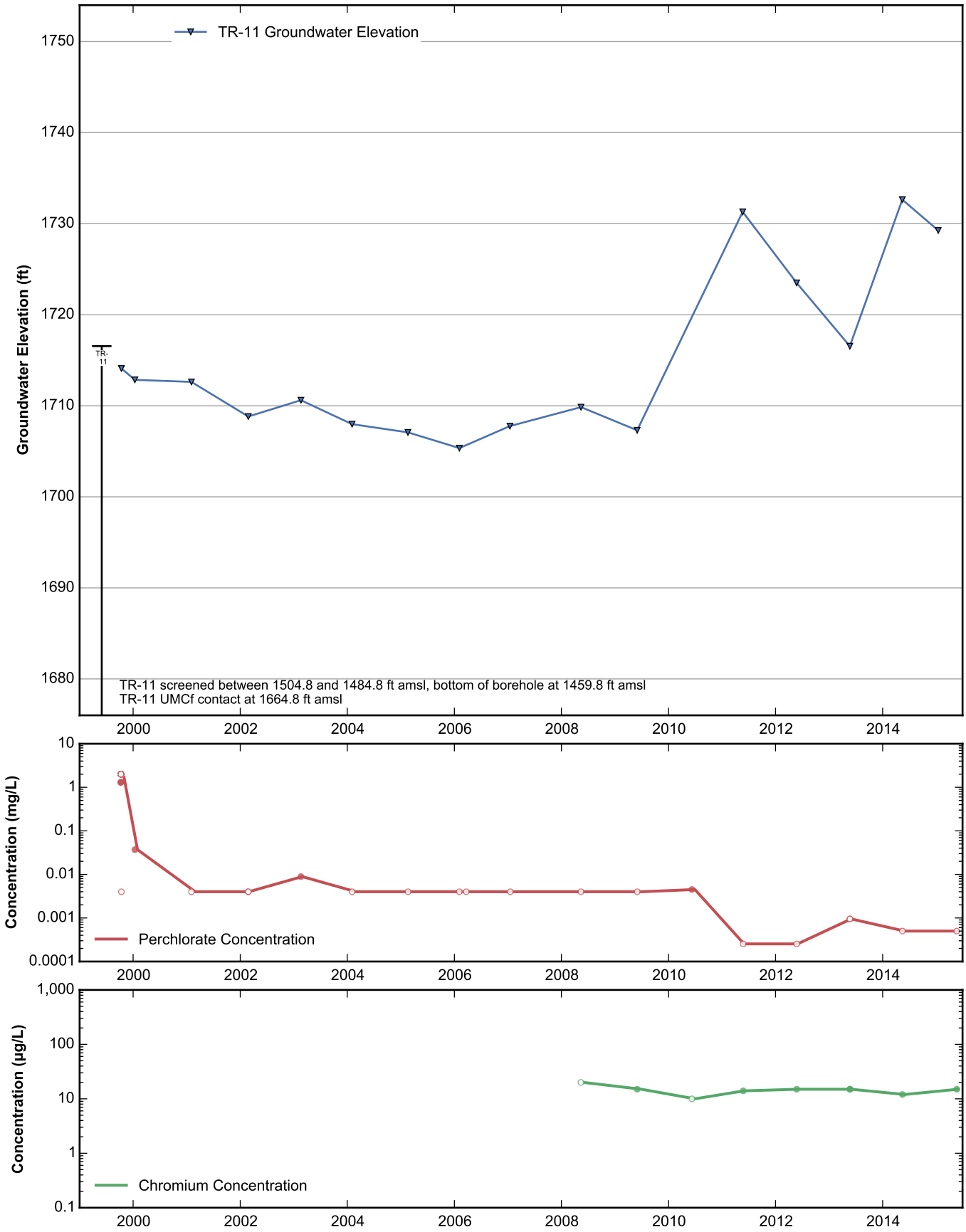


RAMBOLL ENVIRON

Data Sheet for Well TR-10
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

Path: H:\LePetomane\NERT\GWM\Annual Performance Reports\2015 Annual\Appendix B - Well Data Sheets\RunNERTDataSheets.py



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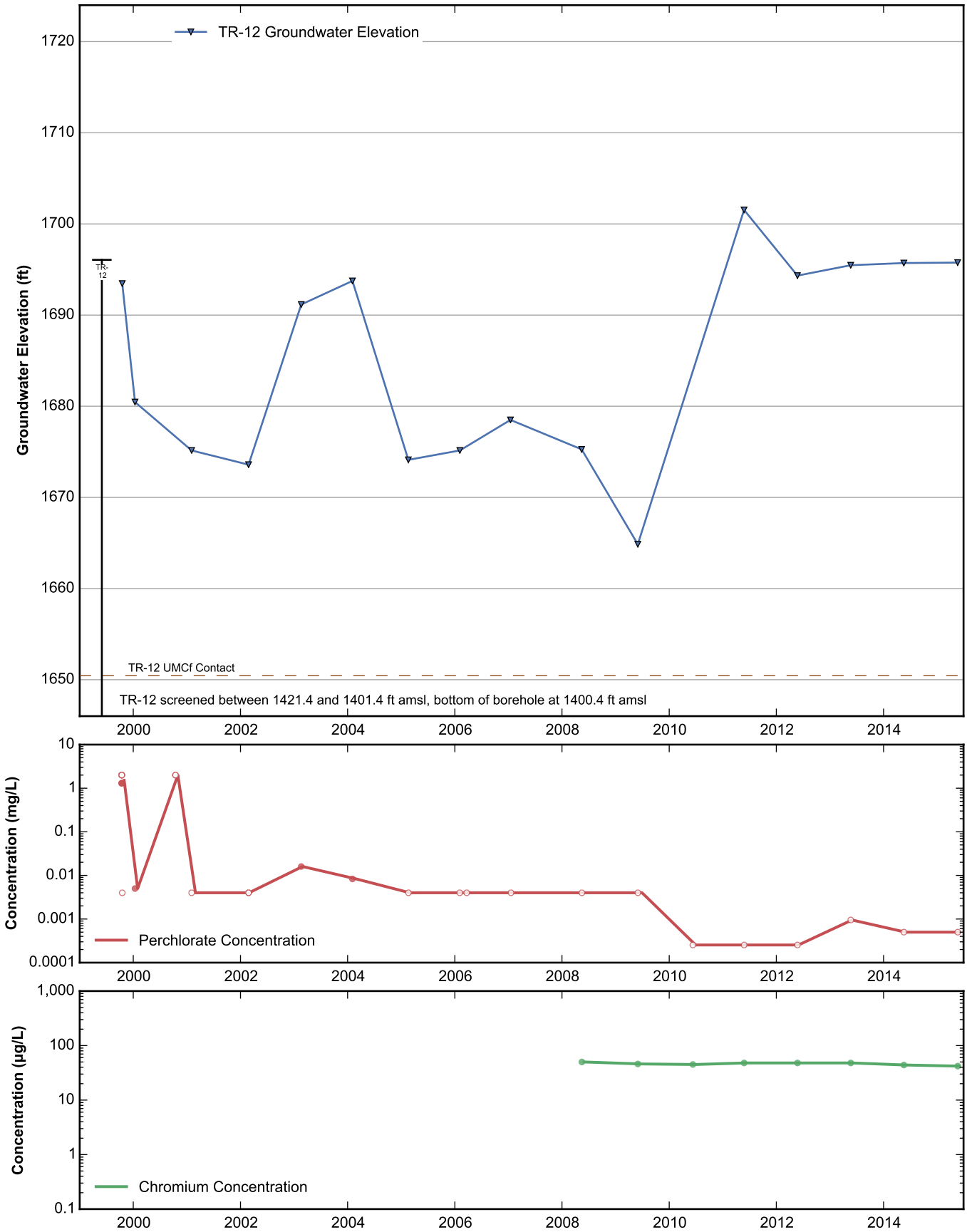
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:



RAMBOLL ENVIRON

Data Sheet for Well TR-12
Nevada Environmental Response Trust Site
Henderson, Nevada

Drafter: JH	Date: 10/28/15	Contract Number: 21-37300A	Approved:	Revised:

APPENDIX C
GROUNDWATER FIELD RECORDS

ENVIROGEN
TECHNOLOGIES

First Quarter Well Monitoring

Nevada Environmental Response Trust Henderson, Nevada

February 2, 2015 thru March 3, 2015

ENVIROGEN
TECHNOLOGIES

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ENVIROGEN
TECHNOLOGIES

Letter of Transmittal

Attention: Andrew Harley
Principal Geochemist
Tetra Tech
350 Indiana Street, Suite 500
Golden, CO 80401

Date: March 31, 2015

Project:

2015 1st Quarter Groundwater Monitoring

Enclosed:

1 copy of Field Data Letter Report

Remarks:
Andrew,
The enclosed Quarterly Groundwater Monitoring Report with supporting documents is provided for your records.

Signature:

Wendy Prescott

Wendy Prescott

Envirogen Technologies
Two Kingwood Place
700 Rockmead Drive Suite 105
Kingwood, TX 77339

ENVIROGEN
TECHNOLOGIES

Field Data Letter Report

1 INTRODUCTION

Nevada Environmental Response Trust (NERT) contracts with Envirogen Technologies to conduct groundwater sampling and analysis at their Perchlorate Removal Facility, located at 510 Fourth Street, in Henderson, Nevada. The work described herein represents the first quarter groundwater sampling event for 2015. The work was conducted in accordance with the Envirogen O&M Contract signed on December 5, 2012.

Envirogen has three staff members trained to assist the quarterly well monitoring events. The Envirogen monitoring team meets once prior to the sampling event to discuss all issues associated with this project, sampling and laboratory equipment needs, time tables and well site schedules. Bottle orders and bottles received are cross checked to ensure that all wells and analysis are represented.

1.1 SCOPE OF SAMPLING EVENT

This sampling effort included the following tasks:

- Soundings of the pumping water levels in 27 interceptor wells.
- Soundings of the water levels in 3 dormant interceptor wells
- Collection of groundwater samples from 30 interceptor wells.
- Soundings of water levels in 105 monitoring wells.
- Collection of groundwater samples from 82 monitoring wells.
- Collection of groundwater samples from 17 pumping wells.
- Collection of water levels in 5 backup (Buddy) wells.

- Collection of groundwater samples from 2 dormant ART wells (ART-6 and ART-7A).

Analysis of samples collected from the interceptor and monitoring wells, range from Perchlorate (CLO4), Total Chromium (Cr), Hexavalent Chromium (CRVI), pH, Specific Conductance (EC), Total Dissolved Solids (TDS), and NPDES list for well M-10, (Up Well). CR, MN, FE, B, Ammonia, TIN, Nitrate-Nitrite as N, and Chloide.

Groundwater samples were shipped daily to TestAmerica (TA) for analysis, in Irvine, California. TA is certified by the State of Nevada.
The scope of this assignment also included compiling the water level and analytical data presented in this report. Data are presented in tabular form.

2 FIELD ACTIVITIES

Envirogen conducted the field activities associated with this quarterly sampling event between Monday February 2nd and Tuesday March 3, 2015. Activities included the sounding of "pumping water" levels in the interceptor wells, sounding the "static water" level in the monitoring wells and sampling of both the interceptor and monitoring wells. Prior to each quarter, an inventory list was issued to Environ for review and comment. Sampling was conducted according to their specifications.

Jeff Lambeth, Wendy Prescott, Tobin Walker and Michele Brown were responsible for sample collection and recording all pertinent data on sample bottles. Michele Brown supervised the groundwater sampling activities. She is responsible for executing all work elements related to the groundwater sampling program, including laboratory equipment maintenances and calibration, fieldwork, documenting field activities, maintaining field notes and photographs (when applicable), and providing the Operations Manager with information concerning implementation of the sampling plan.

Envirogen maintained records of daily events and pertinent sampling data of each well on a field log sheet and addendum data in a bound log book. Log sheet entries included personnel onsite, weather conditions, water levels, activities conducted, sampling times, pH, EC, temperature and other significant field information.

2.1 Groundwater Level Soundings

Envirogen sounded pumping water levels in 27 interceptor wells. The static water readings were taken in Interceptor wells I-AB, I-AC and I-AD. In addition to the interceptor wells, static water levels in 105 monitoring wells were taken. There were twenty-eight (28) wells where only static water levels were taken. The following are the 28 wells:

ART-1A	ART-2	ART-3	ART-4A		ART-8A	M-55	M-56	M-58	M-60	M-75
M-76	M-77	M-78	M-92	M-93		M-97	M-115	M-166	M-167	M-168
M-169	M-170	M-172	M-173	M-174	M-175	M-176	M-177			

The water levels were sounded to the nearest 0.01 foot using an electronic well sounder.

2.2 Equipment Cleaning Procedures

The Deionized water is changed each morning so the rinsing water is fresh. Non Dedicated sampling equipment has been replaced with dedicated tubing or use of disposable bailers where necessary.

The conductivity/pH probe was rinsed thoroughly with DI water after every sample was analyzed.

Following the sounding of water levels at each well the static probe was rinsed by spraying first with soapy water and then rinsed with DI water.

Following the sampling of each well the equipment was washed and purged using DI water containing Liquinox soap then rinsed and purged using clear DI water. The rinse water was collected in a polyethylene container and transported to GW-11 for treatment.

3.0 GROUNDWATER SAMPLING

3.1 Sampling Locations

The following presents the identification of wells sampled.

3.1.1 Interceptor Wells

I-AR	I-B	I-C	I-D	I-E	I-F	I-G	I-H	I-I	I-J	I-K
I-L	I-M	I-N	I-O	I-P	I-Q	I-R	I-S	I-T	I-U	I-V
I-W	I-X	I-Y	I-Z	I-AA	I-AB	I-AC	I-AD			

3.1.2 Pumping Wells

ART-1	ART-2A	ART-3A	ART-4	ART-7B	ART-8	ART-9	PC-99R2/R3	PC-115R	PC-116R	PC-117
PC-118	PC-119	PC-133	PC-150							

3.1.3 **Monitoring Wells**

ARP-1	ARP-2A	ARP-3A	ARP-4A	ARP-5A	ARP-6B	ARP-7	ART-7A	M-10	M-11	M-12A
M-14A	M-19	M-22A	M-23	M-25	M-31A	M-35	M-37	M-38	M-44	M-48A
M-52	M-57A	M-64	M-65	M-66	M-67	M-68	M-69	M-70	M-71	M-72
M-73	M-74	M-79	M-80	M-81A	M-83	M-95	M-131	M-135	MW-K4	MW-K5
PC-18	PC-37	PC-53	PC-54	PC-55	PC-56	PC-58	PC-59	PC-60	PC-62	PC-68
PC-71	PC-72	PC-73	PC-86	PC-90	PC-91	PC-94	PC-97	PC-98R	PC-101R	PC-103
PC-122	PC-123	PC-124	PC-125	PC-126	PC-127	PC-128	PC-129	PC-130	PC-131	ART-6
PC-135A	PC-136	PC-144	PC-148	PC-149	PC-132	M-99				

4.0 SAMPLING TECHNIQUES

4.1 Interceptor Wells

All interceptor wells were sampled using dedicated sampling ports. At the beginning of sampling each well or line, personnel wore a new pair of clean nitrile or latex gloves.

The sampling port was opened to drain any stagnant water from piping and valves. This water is captured and containerized. All captured water is off-loaded at GW-11 for onsite treatment.

Following the purging of the sample port, a "water quality" sample was collected for analysis of Perchlorate, Total Chromium, pH, and TDS. Envirogen also recorded the "*field*" temperature, pH, and conductivity as well as the pumping water level. The "*field*" parameters are provided in Table 1.

4.2 Monitoring Wells

Monitoring wells were purged before sampling to assure that each sample was collected from fresh formation water.

Eighty (80) wells were purged and sampled, using the 12 volt submersible pump. Three (3) wells, M-99, ART-7A and ART-6 were sampled with a disposable bailer. One (1) well M-38 was sampled with a dedicated bailer. M-99 was not purged due to location and/or water column level but samples were collected. Hand bailing was done as a result of only needing to purge less than 3 gallons of water, if there was an insufficient amount of water in the well casing to use a pump or due to the location of the well.

Samples for both the interceptor and monitoring wells were collected in appropriate containers supplied by TestAmerica and analyzed for the specific required analysis of the well. The bottles were filled with minimal aeration, using laminar flow.

The samples were labeled, packaged, stored, and transported using the procedures outlined in the work plan for well samples.

4.3 Problems Encountered

Cast Lids are missing from PC-94 and PC-90. Wells are capped and locked and large rocks were placed over the casing for protection.

Submersible pump quit working at M-48A on 2-24-15. Changed out to new pump.

On 2-25-15 the sampling trailer was revamped with new fittings to achieve quicker and easier sampling techniques for the sampling team.

5.0 QUALITY CONTROL

Quality control (QC) procedures include collection and analysis of QC duplicate samples, equipment and field blanks. The analytical laboratory is also required to meet specific QA/QC requirements for surrogate recovery, MS/MSD recovery and RPDs, and LCS recoveries. Duplicate EC readings were conducted at one well each day to insure the accuracy of the Hanna field probe.

5.1 QC Duplicate Samples

QC duplicate samples were collected during the sampling event to evaluate the precision and accuracy of analytical data. The QC duplicates were collected, packaged, and transported in the same manner as the primary sample, but assigned a different identification number.
Four (4) duplicates were collected from the wells, representing at least 5 percent of the samples collected. The duplicate samples were collected from the following wells M-44, M-68, M-37 and M-81A. They were analyzed for the same parameters as the primary samples. TestAmerica was not informed of the identity of these "blind" samples.

5.2 Equipment Blanks

Three equipment blanks were taken this quarter. The equipment blanks were collected on, February 13, 25 and 26, 2015. One set of three (3) bottles, CLO4, pH, TDS, CR and CRVI) for two days and one (1) bottle, CLO4, for the Monthly/Quarterly sampling for a total of seven (7) bottles. This was done to evaluate the adequacy of cleaning procedures used by field personnel during this sampling event.

5.3 Field Blanks

One field blank sample was collected on February 24, 2015. One set of three bottles were sent to the laboratory for analysis to evaluate the integrity of the de-ionized water used to clean and purge the sampling equipment.

6.0 ANALYTICAL PROCEDURES

The following designates the parameter, analytical method and method reporting limits for groundwater. Some of the following analysis may not have been performed for this reporting period.

PARAMETER	ANALYTICAL METHOD	MRL
CLO4	Method 314.0	4.0 μg/L
Total Chromium	Method 200.7	0.01 mg/L
Hexavalent Chromium (CRVI)	Method 218.6 ORGFM	0.005 mg/L,
pH	Method 150.1	.01 units
TDS	Method 2540C Calcd	10 mg/L

PARAMETER	ANALYTICAL METHOD	MRL
Chloride	Method 300 ORGFM 28D	80.0 mg/L
Iron (ICAP)	Method 200.7	0.005 mg/L
Manganese (ICAP/)	Method 200.7	100 μg/L
Sodium (ICAP)	Method 200.7	5 mg/L
Phenols, Total	Method 420.1, 420	.010 mg/L
Sulfate	Method 300 ORGFM 28D	80 mg/L
Total Organic Carbon, TOC	Method 5310C	unknown
Total Organic Halogen, TOX	Method 9020B - 9020	unknown
Boron	Method 200.7	.10 mg/L
Conductance	Method 2510B - 2510	2 μohms/cm
Ammonia Nitrogen	Method 300 ORGFM	0.050 mg/L
Nitrate Nitrogen	Method 300 ORGFM	2.0 mg/L
Copper	Method 300 ORGFM	2.0 μg/L
Chlorate	Method 300.1B 28D	

6.1 Field Equipment Calibration

Prior to the start of each day's events, field laboratory equipment was calibrated. A Hanna HI 98130 water proof pH, EC/TDS and temperature field probe was calibrated and measurements recorded on daily laboratory calibration maintenance forms, which have been provided. Each day a duplicate EC reading was taken at random wells to ensure the calibration of the meter was holding. The duplicate EC readings were taken from wells ARP-5A, M-38, M-69, M-80, PC-55, PC-68, PC-73 and PC-98R.

SUMMARY RESULTS

7.1 Groundwater Level Soundings

A summary of water level soundings collected for the interceptor and monitoring wells are presented in Table 1.

Pumping water level in interceptors wells. (Measured in feet from below the top of casing.)

LOW	HIGH
44.71 (I-AA)	24.24 (I-I)

Static water level monitoring wells. (Measured in feet from below the top of casing.)

LOW	HIGH
69.45 (M-10)	4.63 (PC-97)

7.2 Summary of Field Activities

7.2.1 Interceptor Wells

CLO4, Cr, TDS, pH thirty (30) interceptor wells

7.2.2 Monitoring Wells

Eighty- three (83) Monitoring wells sampled for sets that may have included: pH, TDS, CLO4, CR, and CRVI

7.2.3 QC Duplicate Samples (Measured for the same analyses as the primary samples.)

M-44, M-37 (Measured for pH, CR, CRVI, CLO4, TDS)

M-81, M-68 (Measured for Total Cr., pH, CLO4 and TDS)

7.2.4 Equipment Blanks

Two (2) equipment blanks were analyzed for CLO4, Total Cr., Hex Cr., pH, and TDS. One (1) equipment blank was analyzed for CLO4 only.

7.2.5 Field Blank

One (1) field blank was analyzed for CLO4, Total Cr., Hex Cr., pH and TDS.

Weather	mostly warm with slight breezes
Total # of wells visited	166
Total water samples collected	138
Total Wells measured DTW only	33
Total Duplicate Samples (5%)	5
Total Equipment Blanks	3
Total Field Blanks	1
Total Wells hand bailed	3
Total Wells considered DRY	4
Total Wells not accessible	2
Total Wells damaged	1
Total wells not found	0
Total wells not sampled due to safety	1

ENVIROGEN QUARTERLY SAMPLING SIGN IN SHEET

DATE	TIME	COMPANY	SIGNATURE	PRINT NAME
2-23-15	600	ETI	Michele Brown	Michele Brown
2-24-15	230	ETI	Michele Brown	Michele Brown
2-24-15	400	ETI	J. L. Lambeth	JEFF LAMBETH
2-25-15	655	ETI	Wendy Prescott	WENDY PRESCOTT
2-25-15	530	ETI	Michele Brown	Michele Brown
2-26-15	0500	ETI	Michele Brown	Michele Brown
2-26-15	0615	ETI	Tobin Walker	Tobin Walker
2-26-15	10	Tetra Tech	[illegible]	Becki Dane
2-27-15	0430	ETI	Michele Brown	Michele Brown
2-27-15	0600	ETI	J. L. Lambeth	JEFF LAMBETH
2-27-15	1900	Tetra Tech	[illegible]	BECKI DANE
3-3-15	0600	ETI	Michele Brown	Michele Brown
3-3-15	1030	Tetra Tech	[illegible]	BECKI DANE

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-2-15

HANNA FIELD pH METER

Known Values	1) 7.0	1) 8.0	TIME/ANALYST
Calibration Value	2) 7.02	2) 7.99	0805/MB
Buffer Temperature	3) 20.6	3) 20.4	
		Changed Buffers yes X Please Check	

HANNA FIELD EC METER

Known Values	1) 1288	TIME/ANALYST
Temp. Comp. Value	2) 1191	0800/ MB
Calibration Value	3) 1286	
Standard Temp.	4) 21.0	
	Changed Standards yes X Please Check	

Dupliate EC Redaing Well # _____

1st Reading 2nd Reading

EC_____ Temp._____ EC_____ Temp._____

All equipment was rinsed and purged with Deionized water after each use.

Date_____ Verified _____

No conductivity readings taken today

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-10-15

HANNA FIELD pH METER

Known Values	1) 7.0	1) 8.0	TIME/ANALYST
Calibration Value	2) 7.01	2) 8.02	1005 / MB
Buffer Temperature	3) 21.4°C	3) 20.6	
		Changed Buffers yes X Please Check	

HANNA FIELD EC METER

Known Values	1) 1288	TIME/ANALYST
Temp. Comp. Value	2) 1215	1000 / MB
Calibration Value	3) 1287	
Standard Temp.	4) 21.5	
	Changed Standards yes X Please Check	

Dupliate EC Redaing Well # _____

1st Reading 2nd Reading

EC_____ Temp._____ EC_____ Temp._____

All equipment was rinsed and purged with Deionized water after each use.

Date 2-10-15 Verified MB

Only 4 wells sampled no Dup EC

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-11-15

HANNA FIELD pH METER

			TIME/ANALYST
Known Values	1) 7.0	1) 8.0	0740 / MB
Calibration Value	2) 7.02	2) 8.0	
Buffer Temperature	3) 68.1 °F	3) 19.4 °C	
		Changed Buffers yes X Please Check	

HANNA FIELD EC METER

		TIME/ANALYST
Known Values	1) 1288	0737 / MB
Temp. Comp. Value	2) 1167	
Calibration Value	3) 1288	
Standard Temp.	4) 19.8 °C	
	Changed Standards yes X Please Check	

Duplate EC Redaing Well # PC-68

1st Reading

EC 2.73 mS/cm Temp. 21.7 °C

2nd Reading

EC 2.72 mS/cm Temp. 21.2 °C

All equipment was rinsed and purged with Deionized water after each use.

Date 2-11-15 Verified MB

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-12-15

HANNA FIELD pH METER

Known Values	1) 7.0	1) 8.0	TIME/ANALYST
Calibration Value	2) 7.02	2) 8.01	0805 / MB
Buffer Temperature	3) 18.5°c	3) 17.9	
	Changed Buffers yes X Please Check		

HANNA FIELD EC METER

Known Values	1) 1288	TIME/ANALYST
Temp. Comp. Value	2) 1143	0800 / MB
Calibration Value	3) 1289	
Standard Temp.	4) 18.7°c	
	Changed Standards yes X Please Check	

Duplate EC Redaing Well # ARP-5A

1st Reading

EC 507 mS/cm Temp. 24.3 °c

2nd Reading

EC 5.06 mS/cm Temp. 24.3°c

All equipment was rinsed and purged with Deionized water after each use.

Date 2-12-15 Verified MB

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-13-15

HANNA FIELD pH METER

Known Values	1) 7.0	1) 8.0	TIME/ANALYST
Calibration Value	2) 7.02	2) 7.98	0751 / MB
Buffer Temperature	3) 18.5	3) 18.2°C	
		Changed Buffers yes X Please Check	

HANNA FIELD EC METER

Known Values	1) 1288	TIME/ANALYST
Temp. Comp. Value	2) 1119	0748 / MB
Calibration Value	3) 1284	
Standard Temp.	4) 18.3°C	
	Changed Standards yes X Please Check	

Dupliate EC Redaing Well # PC-55

1st Reading

EC 10.77 mS/cm Temp. 27.5°C

2nd Reading

EC 10.81 mS/cm Temp. 27.7°C

All equipment was rinsed and purged with Deionized water after each use.

Date 2-13-15 Verified MB

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-18-15

HANNA FIELD pH METER

Known Values	1) 7.0	1) 8.0	TIME/ANALYST
Calibration Value	2) 7.02	2) 7.98	1013/MB
Buffer Temperature	3) 19.8	3) 19.6	
		Changed Buffers yes X Please Check	

HANNA FIELD EC METER

Known Values	1) 1288		TIME/ANALYST
Temp. Comp. Value	2) 1143		1010/MB
Calibration Value	3) 1288		
Standard Temp.	4) 19.4°C		
		Changed Standards yes X Please Check	

Dupliate EC Redaing

Well # PC-98R

1st Reading

EC 8.74 mS/cm Temp. 26.2°C

2nd Reading

EC 8.76 mS/cm Temp. 26.2°C

All equipment was rinsed and purged with Deionized water after each use.

Date 2-18-15 Verified MB

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-23-15

HANNA FIELD pH METER

Known Values	1) 7.0	1) 8.0	TIME/ANALYST
Calibration Value	2) 7.02	2) 7.98	0715/MD
Buffer Temperature	3) 20.4	3) 20.8	
		Changed Buffers yes X Please Check	

HANNA FIELD EC METER

Known Values	1) 1288		TIME/ANALYST
Temp. Comp. Value	2) 1191		0710/MD
Calibration Value	3) 1290		
Standard Temp.	4) 21.0		
		Changed Standards yes X Please Check	

Dupliate EC Redaing

Well # F-C

1st Reading

EC 8.57 mS/cm Temp. 22.4°C

2nd Reading

EC 8.55 mS/cm Temp. 22.5°C

All equipment was rinsed and purged with Deionized water after each use.

Date 2-23-15 Verified MD

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-24-15

HANNA FIELD pH METER

Known Values	1) 7.0	1) 8.0	TIME/ANALYST
Calibration Value	2) 7.02	2) 8.0	/MB
Buffer Temperature	3) 19.0	3) 19.3	
		Changed Buffers yes X Please Check	

HANNA FIELD EC METER

Known Values	1) 1288		TIME/ANALYST
Temp. Comp. Value	2) 1191		315A /MB
Calibration Value	3) 1288		
Standard Temp.	4) 21.0°C		
		Changed Standards yes X Please Check	

Dupliate EC Redaing Well # PC73

1st Reading

EC 9.21 mS/cm Temp. 23.3

2nd Reading

EC 9.24 mS/cm Temp. 23.1°C

All equipment was rinsed and purged with Deionized water after each use.

Date 2-24-15 Verified MB

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-25-15

HANNA FIELD pH METER

			TIME/ANALYST
Known Values	1) 7.0	1) 8.0	0655 / MB
Calibration Value	2) 7.02	2) 8.02	
Buffer Temperature	3) 19.2°C	3) 20.1°C	
	Changed Buffers yes X Please Check		

HANNA FIELD EC METER

		TIME/ANALYST
Known Values	1) 1288	0650 / MB
Temp. Comp. Value	2) 1191	
Calibration Value	3) 1288	
Standard Temp.	4) 20.7°C	
	Changed Standards yes X Please Check	

Dupliate EC Redaing Well # M-69

1st Reading

EC 5.20 mS/cm Temp. 25.6°C

2nd Reading

EC 5.20 mS/cm Temp. 25.4°C

All equipment was rinsed and purged with Deionized water after each use.

Date 2-25-15 Verified MB

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-26-15

HANNA FIELD pH METER

			TIME/ANALYST
Known Values	1) 7.0	1) 8.0	0620 / MD
Calibration Value	2) 7.02	2) 7.98	
Buffer Temperature	3) 19.6	3) 20.2	
		Changed Buffers yes X Please Check	

HANNA FIELD EC METER

		TIME/ANALYST
Known Values	1) 1288	0615 / MD
Temp. Comp. Value	2) 1191	
Calibration Value	3) 1287	
Standard Temp.	4) 21.2°C	
	Changed Standards yes X Please Check	

Dupliate EC Redaing Well # M-80

1st Reading

EC 4.43 mS/cm Temp. 23.7°C

2nd Reading

EC 4.46 mS/cm Temp. 23.5°C

All equipment was rinsed and purged with Deionized water after each use.

Date MD Verified 2-26-15

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 2-27-15

HANNA FIELD pH METER

Known Values	1) 7.0	1) 8.0	TIME/ANALYST
Calibration Value	2) 7.02	2) 8.02	0545 | MB
Buffer Temperature	3) 19.9	3) 20.6	
		Changed Buffers yes X Please Check	

HANNA FIELD EC METER

Known Values	1) 1288	TIME/ANALYST
Temp. Comp. Value	2) 1191	0540 | MB
Calibration Value	3) 1288	
Standard Temp.	4) 21.3	
	Changed Standards yes X Please Check	

Dupliate EC Redaing Well # M-38

1st Reading

EC 10.95 mS/cm Temp. 23.5°C

2nd Reading

EC 11.13 mS/cm Temp. 23.5°C

All equipment was rinsed and purged with Deionized water after each use.

Date 2-27-15 Verified MB

ENVIROGEN TECHNOLOGIES

DAILY MAINTENANCE AND CALIBRATION RECORD

DATE: 3-3-15

HANNA FIELD pH METER

Known Values	1) 7.0	1) 8.0	TIME/ANALYST
Calibration Value	2) 7.02	2) 7.98	1008/MB
Buffer Temperature	3) 19.5	3) 19.8	
		Changed Buffers yes X Please Check	

HANNA FIELD EC METER

Known Values	1) 1288	TIME/ANALYST
Temp. Comp. Value	2) 1167	1005/MB
Calibration Value	3) 1288	
Standard Temp.	4) 20.0	
	Changed Standards yes X Please Check	

Dupliate EC Redaing Well # _____

1st Reading 2nd Reading

EC_____ Temp._____ EC_____ Temp._____

All equipment was rinsed and purged with Deionized water after each use.

Date 3-3-15 Verified MB

No Dup EC Today only one well sampled

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 1st Quarter Groundwater Monitoring, February 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
ARP-1	44.2	1613.32	23.92		1589.40	7.41	7.82	2/11/2015	12:30		pH, TDS, Cr, ClO_4
ARP-2A	54	1614.18	25.48		1588.70	7.49	8.24	2/13/2015	9:54		pH, TDS, Cr, ClO_4
ARP-3A	41	1614.67	26.96		1587.71	7.15	12.02	2/12/2015	9:54		pH, TDS, Cr, ClO_4
ARP-4A	33	1615.47	28.53		1586.94	7.37	6.09	2/12/2015	11:17		pH, TDS, Cr, ClO_4
ARP-5A	38	1616.10	31.39		1584.71	7.86	5.07	2/12/2015	11:33		pH, TDS, Cr, ClO_4
ARP-6B	43	1615.56	30.96		1584.60	7.54	10.09	2/12/2015	11:51		pH, TDS, Cr, ClO_4
ARP-7	39.2	1613.20	29.09		1584.11	7.67	9.91	2/3/2015	12:09		pH, TDS, Cr, ClO_4
ART-1	56	1614.47	25.15		1589.32	7.5		2/3/2015	11:21		pH, TDS, Cr, ClO_4
ART-1A	56	1614.40	23.94		1590.46			2/3/2015	11:22		DTW Only
ART-2	56	1617.10	27.05		1590.05			2/3/2015	11:18		DTW Only
ART-2A	58	1616.81	28.08		1588.73	7.23		2/3/2015	11:19		pH, TDS, Cr, ClO_4
ART-3	47	1617.93	30.93		1587.00			2/3/2015	11:10		DTW Only
ART-3A	55	1617.60	38.37		1579.23	7.33		2/3/2015	11:11		pH, TDS, Cr, ClO_4
ART-4	46	1617.39	38.36		1579.03	7.47		2/3/2015	11:05		pH, TDS, Cr, ClO_4
ART-4A	46	1617.46	28.77		1588.69			2/3/2015	11:06		DTW Only
ART-6	36	1615.19	28.11		1587.08	7.51		2/3/2015	11:37		pH, TDS, Cr, ClO_4
ART-7	38.9	1615.37			1615.37					well capped	DTW Only
ART-7A	40	1614.78	28.33		1586.45	7.39		2/3/2015	11:35		DTW Only
ART-7B	50	1619.62	37.04		1582.58	7.46		2/3/2015	11:32		pH, TDS, Cr, ClO_4

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 1st Quarter Groundwater Monitoring, February 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
ART-8	50.5	1617.66	31.25		1586.41	7.24		2/3/2015	11:14		pH, TDS, Cr, ClO_4
ART-8A	54	1617.10	27.79		1589.31			2/3/2015	11:16		DTW Only
ART-9	43	1614.90	29.47		1585.43	7.53		2/3/2015	11:39		pH, TDS, Cr, ClO_4
M-2A	47.57	1781.16			1781.16	Sampled in the 2nd Quarter only					pH, TDS, Cr, ClO_4
M-5A	50.00	1751.80			1751.80	Sampled in 2nd and 3rd quarters only					(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
M-6A	46.00	1733.19			1733.19	Sampled in 2nd and 3rd quarters only					(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
M-7B	55.00	1732.83			1732.83	Sampled in 2nd and 3rd quarters only					(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
M-10	69.45	1836.21	51.27		1784.94	8.30	3.30	3/3/2015	10:25		pH / CR6 / Cr / ClO_4 /TDS /+NPDES list
M-11	58.00	1815.53	44.34		1771.19	7.58	3.28	2/26/2015	13:18		pH / TDS / Cr / Cr6 / Cl04
M-12A	50.00	1812.76	42.61		1770.15	7.64	8.56	2/26/2015	12:47		pH / TDS / Cr / Cr6 / Cl04
M-13	54.76	1814.89			1814.89	Sampled in the 2nd Quarter only					pH, TDS, Cr, ClO_4
M-14A	42.40	1760.93	32.79		1728.14	8.35	4.41	2/25/2015	14:26		pH, TDS, Cr, ClO_4
M-19	41.20	1766.77	35.02		1731.75	7.27	6.67	2/26/2015	8:46		pH, TDS, Cr, ClO_4
M-21	44.74	1792.07			1792.07	Sampled in the 2nd Quarter only					pH, TDS, Cr, ClO_4
M-22A	36.92	1759.46	30.64		1728.82	7.14	10.73	2/27/2015	9:25		pH, TDS, Cr, ClO_4
M-23	44.47	1720.35	34.72		1685.63	7.71	5.35	2/24/2015	10:48		pH, TDS, Cr, ClO_4
M-25	41.47	1759.93	33.54		1726.39	7.37	8.5	2/27/2015	8:35		pH, TDS, Cr, ClO_4
M-31A	55.00	1796.87	46.48		1750.39	7.16	6.52	2/26/2015	7:21		pH, TDS, Cr, ClO_4

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 1st Quarter Groundwater Monitoring, February 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
M-33	46.78	1800.29			1800.29	Sampled in the 2nd Quarter only					pH, TDS, Cr, ClO_4
M-35	39.70	1772.78	32.92		1739.86	7.00	5.63	2/26/2015	8:16		pH, TDS, Cr, ClO_4
M-36	37.85	1759.82			1759.82			2/27/2015	10:43	destroyed	pH / Cr / Cr^6 / ClO_4 / TDS
M-37	37.18	1761.06	31.88		1729.18	7.02	6.7	2/27/2015	11:20		pH / Cr / Cr^6 / ClO_4 / TDS
M-38	36.82	1759.73	31.36		1728.37	7.18	10.95	2/27/2015	10:46		pH / Cr / Cr^6 / ClO_4 / TDS
M-44	37.65	1698.31	25.06		1673.25	7.47	10.15	2/24/2015	10:23		pH / TDS / Cr / Cr6 / Cl04
M-48A	40	1718.36	30.50		1687.86	7.33	6.5	2/24/2015	8:44		pH, TDS, Cr, ClO_4
M-52	47.38	1801.92	42.06		1759.86	7.20	5.81	2/26/2015	7:51		pH, TDS, Cr, ClO_4
M-55	45.00	1750.88	29.52		1721.36			2/16/2015	10:04		DTW Only
M-56	40.00	1750.83	31.79		1719.04			2/16/2015	10:09		DTW Only
M-57A	42.40	1753.44	29.87		1723.57	8.25	4.78	2/25/2015	14:11		pH, TDS, Cr, ClO_4
M-58	45.00	1751.25	30.23		1721.02			2/16/2015	10:14		DTW Only
M-60	43.00	1750.94	32.54		1718.40			2/16/2015	10:10		DTW Only
M-64	38.00	1749.76	28.50		1721.26	7.67	3.61	2/25/2015	9:29		pH, TDS, Cr, ClO_4
M-65	40.00	1753.91	33.13		1720.78	7.09	13.46	2/25/2015	9:00		pH, TDS, Cr, ClO_4
M-66	43.00	1754.24	31.53		1722.71	7.06	14.33	2/25/2015	12:30		pH, TDS, Cr, ClO_4
M-67	38.00	1745.91	21.93		1723.98	6.88	6.71	2/26/2015	10:49		pH, TDS, Cr, ClO_4
M-68	41.00	1750.23	26.04		1724.19	7.11	7.16	2/26/2015	9:28		pH, TDS, Cr, ClO_4

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M-69	40.00	1749.75	33.75		1716.00	8.20	5.20	2/25/2015	13:56		pH, TDS, Cr, ClO_4
M-70	41.00	1748.25	35.18		1713.07	7.53	8.32	2/25/2015	13:12		pH, TDS, Cr, ClO_4
M-71	43.00	1747.04	36.57		1710.47	7.48	7.81	2/25/2015	13:26		pH, TDS, Cr, ClO_4
M-72	36.00	1746.49	32.08		1714.41	6.94	11.55	2/25/2015	13:39		pH, TDS, Cr, ClO_4
M-73	36.00	1741.14	28.32		1712.82	7.60	8.96	2/26/2015	10:25		pH, TDS, Cr, ClO_4
M-74	39.00	1744.38	27.58		1716.80	7.25	7.34	2/26/2015	9:52		pH, TDS, Cr, ClO_4
M-75	53.90	1784.21	40.21		1744.00			2/16/2015	10:52		DTW ONLY
M-76	54.60	1785.22	42.43		1742.79			2/16/2015	10:53		DTW ONLY
M-77	47.20	1799.61	40.21		1759.40			2/16/2015	10:49		DTW ONLY
M-78	43.60	1751.50	32.38		1719.12			2/16/2015	10:06		DTW ONLY
M-79	37.60	1742.53	31.43		1711.10	7.69	5.97	2/25/2015	12:53		pH / TDS / Cr / ClO_4
M-80	43.70	1746.04	36.20		1709.84	7.10	4.43	2/26/2015	12:15		pH / Cr / Cr^6 / ClO_4 / TDS
M-81A	41.60	1744.16	35.71		1708.45	7.11	6.04	2/26/2015	11:47		TDS / Cr / ClO_4
M-83	42.50	1742.77	31.47		1711.30	7.24	5.08	2/13/2015	8:36		pH, TDS, Cr, ClO_4
M-92	48.50	1800.76	36.06		1764.70			2/16/2015	10:26		DTW ONLY
M-93	49.00	1797.54	35.25		1762.29			2/16/2015	10:30		DTW ONLY
M-95	30.00	1694.09	17.93		1676.16	7.27	7.22	2/24/2015	11:20		pH / TDS / Cr / Cr6 / Cl04
M-96	16.90	1693.52			1693.52			2/24/2015	8:02	Dry	pH / Cr / Cr^6 / ClO_4 / TDS

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M-97	52.50	1800.85	39.91		1760.94			2/16/2015	10:28		DTW ONLY
M-98	33.40	1731.90			1731.90			2/24/2015	11:08	Dry	pH, TDS, Cr, ClO_4
M-99	35.59	1730.74	33.70		1697.04	7.43	4.87	2/26/2015	6:36		pH, TDS, Cr, ClO_4
M-100	33.81	1730.93			1730.93			2/16/2015	11:05	Dry	pH / TDS / Cr / Cr6 / Cl04
M-101	32.15	1730.81			1730.81			2/16/2015	11:03	Dry	pH, TDS, Cr, ClO_4
M-115	47.50	1787.64	37.98		1749.66			2/16/2015	10:59		DTW ONLY
M-131	39.00	1754.13	33.59		1720.54	7.66	4.51	2/27/2015	8:21		pH, TDS, Cr, ClO_4
M-135	39.00	1751.85	34.71		1717.14	7.67	4.50	2/27/2015	8:00		pH, TDS, Cr, ClO_4
M-166	32.00	1751.09	29.76		1721.33			2/16/2015	9:57		DTW Only
M-167	30.00	1749.95	28.69		1721.26			2/16/2015	9:59		DTW Only
M-168	35.00	1748.46	26.19		1722.27			2/16/2015	10:00		DTW Only
M-169	35.00	1750.22	28.42		1721.80			2/16/2015	10:02		DTW Only
M-170	35.00	1750.66	29.21		1721.45			2/16/2015	10:03		DTW Only
M-172	37.00	1750.58	33.45		1717.13			2/16/2015	10:07		DTW Only
M-173	40.00	1749.88	29.36		1720.52			2/16/2015	10:12		DTW Only
M-174	28.00	1742.29	20.57		1721.72			2/17/2015	7:36		DTW Only
M-175	29.00	1742.74	21.33		1721.41			2/17/2015	7:35		DTW Only
M-176	30.00	1745.35	24.02		1721.33			2/17/2015	7:33		DTW Only

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M-177	30.00	1743.23	21.54		1721.69			2/17/2015	7:31		DTW Only
MW-K4	50	1614.96	27.69		1587.27	7.31	10.27	2/12/2015	10:56		pH, TDS, Cr, ClO_4
MW-K5	44	1598.87	29.89		1568.98	7.31	9.26	2/12/2015	12:44		pH, TDS, Cr, ClO_4
PC-18	52	1618.39	28.18		1590.21	7.51	14.29	2/13/2015	12:21		pH, TDS, Cr, ClO_4
PC-53	33	1595.17	26.91		1568.26	7.63	6.00	2/12/2015	12:29		pH, TDS, Cr, ClO_4
PC-55	54.9	1618.46	27.25		1591.21	7.81	10.77	2/13/2015	10:30		pH, TDS, Cr, ClO_4
PC-56	55	1568.25	20.53		1547.72	7.15	6.69	2/10/2015	11:25		pH, TDS, Cr, ClO_4
PC-58	33	1,567.01	21.29		1545.72	7.24	4.77	2/10/2015	11:05		pH, TDS, Cr, ClO_4
PC-59	35	1567.92	19.12		1548.80	7.46	3.77	2/10/2015	12:23		pH, TDS, Cr, ClO_4
PC-60	40.0	1568.38	19.71		1548.67	7.63	3.24	2/10/2015	12:00		pH, TDS, Cr, ClO_4
PC-62	38.0	1567.83	18.43		1549.40	7.36	2.75	2/11/2015	10:31		pH, TDS, Cr, ClO_4
PC-68	55.3	1566.97	18.49		1548.48	7.19	2.73	2/11/2015	10:58		pH, TDS, Cr, ClO_4
PC-86	28.0	1553.85	12.05		1541.80	7.49	3.03	2/11/2015	11:30		pH, TDS, Cr, ClO_4
PC-90	15.0	1550.46	5.98		1544.48	7.39	4.32	2/11/2015	9:20		pH, TDS, Cr, ClO_4
PC-91	37.0	1552.33	11.01		1541.32	7.25	4.18	2/11/2015	9:45		pH, TDS, Cr, ClO_4
PC-92	22.0	1552.05			1552.05	Sampled in the 2nd Quarter only					pH, TDS, Cr, ClO_4
PC-94	20.0	1548.95	11.92		1537.03	6.98	8.41	2/11/2015	10:07		pH, TDS, Cr, ClO_4
PC-95	35.0	1550.62			1550.62					P & A	pH, TDS, Cr, ClO_4

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PC-97	33.5	1548.53	4.63		1525.58	7.22	3.36	2/12/2015	9:14		pH, TDS, Cr, ClO_4
PC-98R	40.5	1593.35	22.95		1580.26	7.43	8.74	2/18/2015	11:10		pH, TDS, Cr, ClO_4
PC-99R3	55.3	1552.48	13.09		1524.16	7.19		2/4/2015	9:20	pumping	pH, TDS, Cr, ClO_4
PC-101R	50.5	1618.04	28.32		1594.53	6.95	15.03	2/12/2015	10:33		pH, TDS, Cr, ClO_4
PC-103	29.5	1599.49	23.51		1588.49	7.27	6.52	2/18/2015	10:54		pH, TDS, Cr, ClO_4
PC-115R	55.5	1554.71	11.00		1541.73	7.27		2/4/2015	9:26	pumping	pH, TDS, Cr, ClO_4
PC-116R	55.5	1552.10	12.98		1541.22	7.18		2/4/2015	9:18	pumping	pH, TDS, Cr, ClO_4
PC-117	53.0	1552.26	10.88		1544.57	7.18		2/4/2015	9:13	pumping	pH, TDS, Cr, ClO_4
PC-118	51.0	1554.53	7.69		1548.52	7.34		2/4/2015	9:29	pumping	pH, TDS, Cr, ClO_4
PC-119	47.0	1554.66	6.01		1550.47	7.36		2/4/2015	9:33	pumping	pH, TDS, Cr, ClO_4
PC-120	47.0	1554.64	4.19		1550.53	7.28		2/4/2015	9:36		pH, TDS, Cr, ClO_4
PC-121	38.5	1554.10	4.11		1522.99	7.30		2/4/2015	9:38		pH, TDS, Cr, ClO_4
PC-122	38.0	1618.02	31.11		1595.39	7.22	8.92	2/13/2015	9:20		pH, TDS, Cr, ClO_4
PC-123	34.70	1626.44	22.63		1601.40	7.66	7.84	2/24/2015	4:12		pH, TDS, Cr, ClO_4
PC-124	34.60	1635.73	25.04		1612.69	7.35	9.62	2/24/2015	6:34		pH, TDS, Cr, ClO_4
PC-125	33.50	1635.06	23.04		1613.25	7.24	8.36	2/24/2015	6:52		pH, TDS, Cr, ClO_4
PC-126	34.30	1634.33	21.81		1615.92	7.34	9.89	2/24/2015	7:06		pH, TDS, Cr, ClO_4
PC-127	34.70	1632.42	18.41		#REF!	7.54	7.31	2/24/2015	7:22		pH, TDS, Cr, ClO_4

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PC-128	34.70	1633.36	18.55		1614.81	7.50	7.12	2/24/2015	4:35		pH, TDS, Cr, ClO_4
PC-129	37.70	1633.99	18.46		1615.53	7.40	7.57	2/24/2015	4:53		pH, TDS, Cr, ClO_4
PC-130	49.70	1633.21	19.26		1613.95	7.51	8.24	2/24/2015	5:13		pH, TDS, Cr, ClO_4
PC-131	39.40	1633.58	11.24		1622.34	7.32	13.66	2/24/2015	5:38		pH, TDS, Cr, ClO_4
PC-132	39.70	1634.84	9.87		1624.97	7.32	13.37	2/24/2015	6:04		pH, TDS, Cr, ClO_4
PC-133	40.2	1553.00	6.81		1546.19	7.38		2/4/2015	9:08	pumping	pH, TDS, Cr, ClO_4
PC-135A	50.8	1618.58	29.34		1589.24	7.12	13.38	2/25/2015	8:15		pH, TDS, Cr, ClO_4
PC-136	40.3	1618.04	32.04		1586.00	7.29	7.3	2/25/2015	7:42		pH, TDS, Cr, ClO_4
PC-144	39.7	1618.63	30.52		1588.11	7.20	9.72	2/12/2015	10:14		pH, TDS, Cr, ClO_4
PC-148	50.2	1617.96	27.76		1590.20	7.53	8.74	2/27/2015	6:20		pH, TDS, Cr, ClO_4
PC-149	50	1618.93	29.52		1589.41	7.47	5.07	2/27/2015	7:00		pH, TDS, Cr, ClO_4
PC-150	45.7	1619.09	32.35		1586.74	7.44		2/3/2015	11:01	pumping	pH, TDS, Cr, ClO_4
INTERCEPTOR WELLS											
I-AA	46.00	1753.93	44.71		1709.22	7.24	4.89	2/23/2015	10:42		pH, TDS, Cr, ClO_4
I-AB	52.0	1753.89	33.29		1720.60	7.68	5.53	2/23/2015	10:34		pH, TDS, Cr, ClO_4
I-AC	50	1752.76	28.91		1723.85	6.99	16.13	2/26/2015	9:15		pH, TDS, Cr, ClO_4
I-AD	50	1755.39	29.47		1725.92	7.20	7.08	2/26/2015	9:08		pH, TDS, Cr, ClO_4
I-AR	45.00	1758.35	43.12		1715.23	7.25	8.21	2/23/2015	10:51		pH, TDS, Cr, ClO_4
I-B	45.70	1752.87	43.66		1709.21	7.16	5.98	2/23/2015	10:27		pH, TDS, Cr, ClO_4

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I-C	43.80	1752.77	35.71		1717.06	7.07	8.57	2/23/2015	9:43		pH, TDS, Cr, ClO_4
I-D	47.70	1752.67	33.64		1719.03	7.54	8.63	2/23/2015	9:33		pH, TDS, Cr, ClO_4
I-E	46.70	1752.36	44.43		1707.93	7.03	9.68	2/23/2015	9:19		pH, TDS, Cr, ClO_4
I-F	45.80	1749.70	28.96		1720.74	6.87	11.97	2/23/2015	9:00		pH, TDS, Cr, ClO_4
I-G	42.60	1752.50	41.13		1711.37	7.00	11.89	2/23/2015	8:38		pH, TDS, Cr, ClO_4
I-H	46.50	1753.21	44.09		1709.12	6.94	13.95	2/23/2015	8:14		pH, TDS, Cr, ClO_4
I-I	44.20	1745.50	24.24		1721.26	7.08	9.35	2/26/2015	11:30		pH, TDS, Cr, ClO_4
I-J	44.50	1750.09	42.26		1707.83	7.01	7.14	2/27/2015	4:43		pH, TDS, Cr, ClO_4
I-K	40.60	1746.04	36.12		1709.92	7.18	7.39	2/26/2015	9:22		pH, TDS, Cr, ClO_4
I-L	43.40	1751.69	39.97		1711.72	6.95	7.52	2/23/2015	9:59		pH, TDS, Cr, ClO_4
I-M	43.70	1752.90	35.34		1717.56	7.28	10.04	2/23/2015	9:25		pH, TDS, Cr, ClO_4
I-N	41.70	1751.45	33.01		1718.44	7.13	10.14	2/23/2015	9:11		pH, TDS, Cr, ClO_4
I-O	43.80	1752.79	37.77		1715.02	7.12	10.36	2/23/2015	7:48		pH, TDS, Cr, ClO_4
I-P	47.80	1751.66	41.07		1710.59	6.96	11.72	2/23/2015	8:08		pH, TDS, Cr, ClO_4
I-Q	43.80	1753.11	40.00		1713.11	6.75	14.21	2/23/2015	8:45		pH, TDS, Cr, ClO_4
I-R	45.30	1751.35	42.13		1709.22	7.14	7.63	2/23/2015	10:15		pH, TDS, Cr, ClO_4
I-S	47.70	1750.03	28.82		1721.21	7.45	7.57	2/23/2015	9:51		pH, TDS, Cr, ClO_4
I-T	47.80	1751.66	43.17		1708.49	6.99	14.68	2/23/2015	8:22		pH, TDS, Cr, ClO_4

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 1st Quarter Groundwater Monitoring, February 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
I-U	47.60	1752.17	44.23		1707.94	6.47	14.43	2/23/2015	8:31		pH, TDS, Cr, ClO_4
I-V	47.70	1752.13	32.95		1719.18	6.97	8.97	2/26/2015	11:38		pH, TDS, Cr, ClO_4
I-W	50.00	1751.50	42.89		1708.61	6.93	10.33	2/23/2015	7:57		pH, TDS, Cr, ClO_4
I-X	50.00	1748.60	39.58		1709.02	6.70	11.15	2/23/2015	9:06		pH, TDS, Cr, ClO_4
I-Y	50.50	1751.40	38.62		1712.78	7.28	8.14	2/23/2015	10:06		pH, TDS, Cr, ClO_4
I-Z	37.00	1743.78	30.03		1713.75	7.31	7.67	2/26/2015	11:25		pH, TDS, Cr, ClO_4
OTHER WELLS (OFFSITE)											
PC-37	43.08	1707.72	30.50		1677.22	7.68	9.79	2/24/2015	9:17		pH, TDS, Cr, ClO_4
PC-54	34.60	1704.43	24.45		1679.98	7.52	6.05	2/24/2015	8:30		pH, TDS, Cr, ClO_4
PC-71	33.23	1698.73	27.84		1670.89	7.52	9.61	2/24/2015	10:04		pH, TDS, Cr, ClO_4
PC-72	39.54	1699.43	30.68		1668.75	7.57	8.59	2/24/2015	9:50		pH, TDS, Cr, ClO_4
PC-73	49.44	1699.50	31.75		1667.75	7.54	9.21	2/24/2015	9:36		pH, TDS, Cr, ClO_4
PIONEER CHEMICAL WELL											
H-28A	51.00	1731.75			1731.75	Sampled in 2nd and 3rd quarters only					(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
DUPLICATE SAMPLES											
DUP-1	M-44		25.06		1673.25	7.47	10.15	2/24/2015	10:30		pH / TDS / Cr / Cr6 / Cl04
DUP-2	M-68		26.04		1724.19	7.11	7.16	2/26/2015	9:39		pH, TDS, Cr, ClO_4
DUP-3	M-37		31.88		1729.18	7.02	6.70	2/27/2015	11:30		pH / TDS / Cr / Cr6 / Cl04
DUP-4	M-81A		35.71		1708.45	7.11	6.04	2/26/2015	12:03		pH, TDS, Cr, ClO_4

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 1st Quarter Groundwater Monitoring, February 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
OTHER SAMPLES COLLECTED											
EB-1								2/25/2015	9:48		pH / TDS / Cr / Cr6 / Cl04
EB-2								2/26/2015	11:10		pH / TDS / Cr / Cr6 / Cl04
MEB-1								2/13/2015	12:15		CLO4
FB-1								2/24/2015	10:35		pH / TDS / Cr / Cr6 / Cl04

NOTES:

Monthly 3rd week

Monthly 1st week

Irvine
17461 Derian Ave
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phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below 10 DAY			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- Monthly 1st Monday	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	2540C, CALCED- TOTAL DISSOLVED	314.0, 1.1- PERCHLORATE	300.0/ 300.1 Chloride	150.1 pH												
ART-1	2-2-15	1217	NORMAL	WATER	3		1	1	1	1												
ART-2		1220	NORMAL	WATER	3		1	1	1	1												
ART-3		1226	NORMAL	WATER	3		1	1	1	1												
ART-4		1228	NORMAL	WATER	3		1	1	1	1												
ART-6		1000pm	NORMAL	WATER	3		1	1	1	1												
ART-7B		1231	NORMAL	WATER	3		1	1	1	1												
ART-8		1223	NORMAL	WATER	3		1	1	1	1												
ART-9		1233	NORMAL	WATER	3		1	1	1	1												
PC-99R2/R3		1114	NORMAL	WATER	3		1	1	1	1												
PC-115R		1118	NORMAL	WATER	3		1	1	1	1												
PC-116R		1120	NORMAL	WATER	3		1	1	1	1												
PC-117	2	1123	NORMAL	WATER	3		1	1	1	1												

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action.(NAC445.0636)
Signature: Michele Brown Date 2-2-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michele Brown	Envirogen	2-2-15/ 1355	Jan Hawk	Jan Hawk	2/2/15 1355
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine
17461 Derian Ave
Suite 100
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phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- Monthly 1st Monday	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample 2540C_CALCED- TOTAL DISSOLVED SOLIDS	314.0_LL- PERCHLORATE	200.7-200.7 Chromium	150.1 pH
PC-118	2-2-15	1125	NORMAL	WATER	3	1	1	4	1
PC-119	↓	1128	NORMAL	WATER	3	1	1	4	1
PC-120	↓	1130	NORMAL	WATER	3	1	1	4	1
PC-121	↓	1140	NORMAL	WATER	3	1	1	4	1
PC-133	↓	1134	NORMAL	WATER	3	1	1	4	1
PC-150	✓	1238	NORMAL	WATER	3	1	1	4	1

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michelle Brown Date 2-2-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michelle Brown	ENVIROGEN	2-2-15/ 1355	[illegible]	TA	2/2/15 1355
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: Envirogen- Monthly ARP and PC Wells pg 1	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	2540C_Calcd- Total Dissolved Solids	314.0 Perchlorate	SM 4500 pH	200.7 Total Chromium
PC-58	2-10-15	1116	NORMAL	WATER	3		1	1	1	4
PC-56	2-10-15	1148	NORMAL	WATER	3		1	1	1	4
PC-60	2-10-15	1215	NORMAL	WATER	3		1	1	1	4
PC-59	2-10-15	1236	NORMAL	WATER	3		1	1	1	4
PC-9D	2-11-15	0936	NORMAL	WATER	3		1	1	1	4
PC-91	2-11-15	0956	NORMAL	WATER	3		1	1	1	4
PC-94	2-11-15	1015	NORMAL	WATER	3		1	1	1	4
PC-62	2-11-15	1045	NORMAL	WATER	3		1	1	1	4
PC-68	2-11-15	1120	NORMAL	WATER	3		1	1	1	4
PC-86	2-11-15	1143	NORMAL	WATER	3		1	1	1	4
ARP-1	2-11-15	1242	NORMAL	WATER	3		1	1	1	4
			NORMAL	WATER	3		1	1	1	4

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.3636)
Signature: Michelle Brown Date 2-11-15

Special Instructions/QC Requirements & Comments:
Needs level 4 report

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michelle Brown	Envirogen	2-11-15 1530	[illegible]	[illegible]	2-11-15 1530
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	1 OF 1 COCs
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: Envirogen- Monthly ARP and PC Wells pg 1	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hreederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample:	2540C_Calcd- Total Dissolved Solids	314.0 Perchlorate	SM 4500 pH	200.7 Total Chromium
PC-97	2/12-15	0931	NORMAL	WATER	3		1	1	1	4
ARP-3A		1005	NORMAL	WATER	3		1	1	1	4
PC-144		1021	NORMAL	WATER	3		1	1	1	4
PC-101R		1045	NORMAL	WATER	3		1	1	1	4
MW-K4		1108	NORMAL	WATER	3		1	1	1	4
ARP-4A		1124	NORMAL	WATER	3		1	1	1	4
ARP-5A		1140	NORMAL	WATER	3		1	1	1	4
ARP-6B		1201	NORMAL	WATER	3		1	1	1	4
ARP-M		1218	NORMAL	WATER	3		1	1	1	4
PC-53		1235	NORMAL	WATER	3		1	1	1	4
MW-K5	↓	1253	NORMAL	WATER	3		1	1	1	4
			NORMAL	WATER	3		1	1	1	4

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michelle Brown Date 2-12-15

Special Instructions/QC Requirements & Comments:
needs Level 4 report

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michelle Brown	Envirogen	2/12-15			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time

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17461 Derian Ave
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Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	1 OF 1 COCs
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: Envirogen- Monthly ARP and PC Wells pg 1	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	2540C, Calcd- Total Dissolved Solids	314.0 Perchlorate	SM 4500 pH	200.7 Total Chromium	
M-83	2/13/2015	0846	NORMAL	WATER	3		1	1	1	4	
ART-7A	2/13/2015	0944	NORMAL	WATER	3		1	1	1	4	
PC-122	2/13/2015	0928	NORMAL	WATER	3		1	1	1	4	
ARP-2A	2/13/2015	1011	NORMAL	WATER	3		1	1	1	4	
PC-103	2/13/2015		NORMAL	WATER	3		1	1	1	4	NO SAMPLE
PC-98R	2/13/2015		NORMAL	WATER	3		1	1	1	4	NO SAMPLE
PC-18	2/13/2015	1235	NORMAL	WATER	3		1	1	1	4	
PC-55	2/13/2015	1212	NORMAL	WATER	3		1	1	1	4	
MEB-1	2/13/2015	1215	NORMAL	WATER	1			1			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michelle Brown Date 2-13-15

Special Instructions/QC Requirements & Comments.

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michelle Brown	Envirogen	2-13-15			
Relinquished by:	Company	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No.
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	1 OF 1 COCs
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: Envirogen- Monthly ARP and PC Wells pg 1	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	2540C_Calcd- Total Dissolved Solids	314.0 Perchlorate	SM 4500 pH	200.7 Total Chromium
PC-103	2/18/2015	11:02	NORMAL	WATER	3		1	1	1	4
PC-98R	2/18/15	11:45	NORMAL	WATER	3		1	1	1	4

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (N.C.445.0636)
Signature: Michelle Brown Date 2-18-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michelle Brown	Envirogen	2-18-15 1400	[illegible]	[illegible]	2-18-15 1400
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	1 of 2
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W): WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 4th Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
I-O	2-23-15	0751	NORMAL	WATER	3		4	1					
I-W		0759	NORMAL	WATER	3		4	1					
I-D		0850	NORMAL	WATER	3		4	1					
I-H		0856	NORMAL	WATER	3		4	1					
I-U		0833	NORMAL	WATER	3		4	1					
I-T		0834	NORMAL	WATER	3		4	1					
I-G		0840	NORMAL	WATER	3		4	1					
I-Q		0847	NORMAL	WATER	3		4	1					
I-F		0902	NORMAL	WATER	3		4	1					
I-X		0908	NORMAL	WATER	3		4	1					
I-N		0913	NORMAL	WATER	3		4	1					
I-E	✓	0921	NORMAL	WATER	3		4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☑ Archive For 1 Months

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (SAC445.0636)

Signature: Michele Brown Date 2-23-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michele Brown	Envirogen	2/23-15 1850	[illegible]	TA	2/23-15 1850
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Suite 108
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No.
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	2082
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 4th Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROMI	CLO4	TDS, pH	TDS, pH, CRV1	TDS, pH, NO3	TDS, pH, CRV1, NO3	CLO3
I-M1	2-23-15	0901	NORMAL	WATER	3		4	1	1				
I-D1		0935	NORMAL	WATER	3		4	1	1				
I-C1		0945	NORMAL	WATER	3		4	1	1				
I-S1		0958	NORMAL	WATER	3		4	1	1				
I-L1		1001	NORMAL	WATER	3		4	1	1				
I-Y1		1009	NORMAL	WATER	3		4	1	1				
I-R1		1017	NORMAL	WATER	3		4	1	1				
I-B1		1029	NORMAL	WATER	3		4	1	1				
I-AB1		1036	NORMAL	WATER	3		4	1	1				
I-AA1		1044	NORMAL	WATER	3		4	1	1				
I-AR1	↓	1053	NORMAL	WATER	3		4	1	1				
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action ~~Pen~~ C445.B436)

Signature: Michele Brown Date 2-23-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michele Brown	Envirogen	2-23-15	[illegible]	[illegible]	[illegible]
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No.
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Soshmitha Reddy	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: Envirogen- Monthly ARP and PC Wells pg 1	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	2540C_Calcd- Total Dissolved Solids	314.0 Perchlorate	SM 4500 pH	200.7 Total Chromium	[illegible]
PC 123	2-24-15	0426	NORMAL	WATER	3		1	1	1	4	
PC-128		0446	NORMAL	WATER	3		1	1	1	4	
PC-129		0501	NORMAL	WATER	3		1	1	1	4	
PC-130		0531	NORMAL	WATER	3		1	1	1	4	
PC-131		0556	NORMAL	WATER	3		1	1	1	4	
PC-132		0625	NORMAL	WATER	3		1	1	1	4	
PC-124		0649	NORMAL	WATER	3		1	1	1	4	
PC-125		0701	NORMAL	WATER	3		1	1	1	4	
PC 126		0715	NORMAL	WATER	3		1	1	1	4	
PC-127		0732	NORMAL	WATER	3		1	1	1	4	
PC-54		0839	NORMAL	WATER	3		1	1	1	4	
M-48A	✓	0900	NORMAL	WATER	3		1	1	1	4	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445A636)
Signature: [illegible] Date 2-24-15

Special Instructions/QC Requirements & Comments:

Needs level 4 report

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[illegible]	Envirogen	2-24-15	[illegible]		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			SDG No.
FAX:	☑ 2 weeks			
Project Name: Envirogen- Monthly ARP and PC Wells pg 1	☐ 1 week			
Site: NERT- 510 S. Fourth St. Hnederson, NV 89015	☐ 2 days			
P O # 3893	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	2540C, Calcd- Total Dissolved Solids	314.0 Perchlorate	SM 4500 pH	200.7 Total Chromium	[illegible]
PC-37	2-24-15	0925	NORMAL	WATER	3		1	1	1	4	
PC-33		0945	NORMAL	WATER	3		1	1	1	4	
PC-32		0956	NORMAL	WATER	3		1	1	1	4	
PC-31		1010	NORMAL	WATER	3		1	1	1	4	
M-44		1030	NORMAL	WATER	3		1	1	1	4	
M-95		1130	NORMAL	WATER	3		1	1	1	4	
M-23		1056	NORMAL	WATER	3		1	1	1	4	
DUP-1		1030	NORMAL	WATER	3		1	1	1	4	
FB-1	✓	1035	NORMAL	WATER	3		1	1	1	4	
			NORMAL	WATER	3		1	1	1	4	
			NORMAL	WATER	3		1	1	1	4	
			NORMAL	WATER	3		1	1	1	4	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☑ Archive For 1 Months

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636).

Signature: Michelle Brown Date 2-24-15

Special Instructions/QC Requirements & Comments:

Needs level 4 report

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michelle Brown	Envirogen	2-24-15	[illegible]		
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	Company	Date/Time	Received by	Company	Date/Time

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17461 Derian Ave
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Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	1 of 2
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			SDG No.
FAX:	☑ 2 weeks			
Project Name: NERT- 1st Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
M-57A	2/25/2015	14:20	NORMAL	WATER	3		4	1	1				
M-69	2/25/2015	14:04	NORMAL	WATER	3		4	1	1				
M-64	2/25/2015	9:36	NORMAL	WATER	3		4	1	1				
M-65	2/25/2015	9:08	NORMAL	WATER	3		4	1	1				
M-66	2/25/2015	12:42	NORMAL	WATER	3		4	1	1				
M-79	2/25/2015	13:00	NORMAL	WATER	3		4	1	1				
M-70	2/25/2015	13:20	NORMAL	WATER	3		4	1	1				
M-71	2/25/2015	13:33	NORMAL	WATER	3		4	1	1				
M-72	2/25/2015	13:48	NORMAL	WATER	3		4	1	1				
M-14A	2/25/15	14:40	NORMAL	WATER	3		4	1	1				
PC-135A	2/25/15	8:23	NORMAL	WATER	3		4	1	1				
PC-136	2/25/15	8:00	NORMAL	WATER	3		4	1	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michelle Brown Date 2-25-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michelle Brown	Envirogen	2-25-15 / 1600	[illegible]	[illegible]	2/26/15 1600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine
17461 Derian Ave
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Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	2 of 2
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			SDG No.
FAX:	☑ 2 weeks			
Project Name: NERT- 1st Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3
EB-1	2/25/2015	9:48	NORMAL	WATER	3		4	1		1			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0538)
Signature: Michelle Brown Date 2-25-15 MD

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michelle Brown	Envirogen	2-25-15 / 1000	[illegible]	TA	2/25/15 1000
Relinquished by:	Company:	Date/Time: /	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time:

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17461 Derian Ave
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Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	1 of 2
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 1st Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3
M-99	2-26-15	0640	NORMAL	WATER	3		4	1	1				
M-31A		0738	NORMAL	WATER	3		4	1	1				
M-52		0753	NORMAL	WATER	3		4	1	1				
M-35		0827	NORMAL	WATER	3		4	1	1				
M-19		0855	NORMAL	WATER	3		4	1	1				
M-68		0939	NORMAL	WATER	3		4	1	1				
M-74		1005	NORMAL	WATER	3		4	1	1				
M-73		1034	NORMAL	WATER	3		4	1	1				
M-67		1103	NORMAL	WATER	3		4	1	1				
M-81A		1203	NORMAL	WATER	3		4	1	1				
M-80		1226	NORMAL	WATER	3		4	1	1				
DUP-2		0939	NORMAL	WATER	3		4	1	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 2-26-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michele Brown	Envirogen	2-26-15			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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17461 Derian Ave
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Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	2 of 2
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			SDG No.
FAX:	☑ 2 weeks			
Project Name: NERT- 1st Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3
I-AD	2-26-14	0910	NORMAL	WATER	3		4	1	1				
I-AC		0917	NORMAL	WATER	3		4	1	1				
I-K		0924	NORMAL	WATER	3		4	1	1				
I-Z		1127	NORMAL	WATER	3		4	1	1				
I-I		1132	NORMAL	WATER	3		4	1	1				
I-V		1140	NORMAL	WATER	3		4	1	1				
DUP-4		1203	NORMAL	WATER	3		4	1	1				
EB-2		1110	NORMAL	WATER	3		4	1		1			
M-12A		1304	NORMAL	WATER	3		4	1		1			
M-11		1355	NORMAL	WATER	3		4	1		1			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michelle Brown Date 2-26-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michelle Brown	Envirogen	2/26/15 1130			2/26/15 1130
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

17461 Derian Ave
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Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	1 of 1
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 1st Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3
I-J	2-27-15	0445	NORMAL	WATER	3		4	1	1				
PC-148		0651	NORMAL	WATER	3		4	1	1				
PC-149		0736	NORMAL	WATER	3		4	1	1				
M-135		0810	NORMAL	WATER	3		4	1	1				
M-131		0827	NORMAL	WATER	3		4	1	1				
M-25		0841	NORMAL	WATER	3		4	1	1				
M-22A		0935	NORMAL	WATER	3		4	1	1				
M-38		1058	NORMAL	WATER	3		4	1		1			
M-37		1130	NORMAL	WATER	3		4	1		1			
Dup-3	↓	1130	NORMAL	WATER	3		4	1		1			
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michelle Brown Date 2-27-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michelle Brown	Envirogen	2-27-15 / 1335	[illegible]	TA	2-27-15 1335
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	1 of 1 COCs
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- Quarterly M-10	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	200.7 - B, Cr, Iron, Mn	SM4500NH3_D - Ammonia, TIN	300.1B_28D - Chlorate	314.0 Perchlorate	300_ORGFMS - (MOD) Nitate-Nitrite as N 300_ORGFM_28d - Chloride 150.1 - pH 2540C_Calcd - Total Dissolved Solids 218.6_ORGFM- Chromium, hexavalent
M-10	3/3/2015	1214	NORMAL	WATER	6		4	3	6	1	1

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☑ Archive For 1 Months

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 3-3-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michele Brown	Envirogen	3/3/15 1315	Jon Howe	TA	3-3-15 1345
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Bottle Order Information

Bottle Order: *NERT - Quarterly 1st*
Bottle Order #: *4303*
Request From Client: *1/2/2015*
Date Order Posted: *3/21/2013 4:10:10PM*
Order Status: *In Process*
Prepared By: *Sushmitha Reddy*
Deliver By Date: ***1/26/2015 11:59:00PM***
Lab Project Number: *44008216*

Order Completion Information

Creator: *Sushmitha Reddy*
Filled by:
Sent Date:
Sent Via:
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
135	1	135	Plastic 500ml - unpreserved	None	150.1 - pH 2540C_Calcd - Total Dissolved Solids	Water Water	Normal Normal		
135	1	135	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - 200.7 - Chromium	Water	Normal		
135	1	135	Plastic 125mL - sterile	None		Water	Normal	CLO4	
15	1	15	Plastic 500ml - unpreserved	None	150.1 - pH 2540C_Calcd - Total Dissolved Solids 7196A - 7196 - Cr (VI)	Water Water Water	Normal Normal Normal		
15	1	15	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - 200.7 - Chromium	Water	Normal		
15	1	15	Plastic 125mL - sterile	None		Water	Normal	CLO4	
10	1	10	Plastic 125mL - sterile	None	314.0_LL - Perchlorate	Water	Field Blank		

Notes to Field Staff:

Health and Safety Notes:

Preservative	Comment
Nitric Acid	CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Relinquished By	Company	Date	Time	Received By	Company	Seal #: Seal #: Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #: Seal #: Seal #:

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Bottle Order Information

Bottle Order: *NERT - Quarterly M-10*
Bottle Order #: *4296*
Request From Client: *1/2/2015*
Date Order Posted: *3/21/2013 12:00:12PM*
Order Status: *In Process*
Prepared By: *Sushmitha Reddy*
Deliver By Date: ***1/6/2015 12:00:00AM***
Lab Project Number: *44008210*

Order Completion Information

Creator: *Sushmitha Reddy*
Filled by:
Sent Date:
Sent Via:
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
1	1	1	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - B, Cr, Iron, Mn	Water	Normal		
1	1	1	Plastic 500ml - with Sulfuric Acid	Sulfuric Acid	SM4500NH3_D - Ammonia, TIN	Water	Normal		
1	1	1	Plastic 125mL - ethylene diamine	Ethylene Diamine	300.1B_28D - Chlorate	Water	Normal		
1	2	2	Plastic 500ml - unpreserved	None	300_ORGFMS - (MOD) Nitrate-Nitrite as N	Water	Normal		
					300_ORGFM_28D - Chloride	Water	Normal		
					150.1 - pH	Water	Normal		
					2540C_Calcd - Total Dissolved Solids	Water	Normal		
					218.6_ORGFM - Chromium, hexavalent	Water	Normal		
1	1	1	Plastic 125mL - sterile	None		Water	Normal	CLO4	

Notes to Field Staff:

Health and Safety Notes:

Preservative	Comment
Ethylene Diamine	CAUTION! CORROSIVE! CONTAINS ETYLENEDIAMINE. Harmful if inhaled. Use adequate ventilation. Harmful in contact with skin and eyes. If contact is made, FLUSH IMMEDIATELY with water.
Nitric Acid	CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.
Sulfuric Acid	CAUTION! CONTAINS 1:1 SULFURIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Relinquished By	Company	Date	Time	Received By	Company	Seal #
						Seal #
						Seal #
Relinquished By	Company	Date	Time	Received By	Company	Seal #
						Seal #
						Seal #

Please notify us immediately if an error is found in shipment

ENVIROGEN
TECHNOLOGIES

Groundwater Field Log

This Section Contains:

- Water Sampling Field Logs

ENVIROGEN
TECHNOLOGIES

Table of Well Gauging Data

This Section Contains:

- Field Sign - In Log
- Daily Maintenance & Calibration Log
- Table 1 Well Inventory
- Chain-of-Custody & Bottle Order Forms

Water Sampling Field Log

Well No.: ARP-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-11-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: windy, warm, clear

Well Information:

Total Well Depth: 44.2 feet Time: 1230

Depth to Water: 23.92 feet

Height of Water Column (L): 20.28 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 3.24 gal. * 3 = 10 gal

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
2-in. / 4-in. / 6-in	3.24 gal.	3	10 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1232	----	----	----	----	
1235	4 gal	7.47	7.76 mS/cm	25.0 °C	clear
1238	7 gal	7.36	7.74 mS/cm	25.0 °C	clear
1241	10 gal	7.41	7.82 mS/cm	25.3 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1242 Time Finished: 1242

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Screen 14 - 44'

Water Sampling Field Log

Well No.: ARP-2A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-13-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 54.0 feet Time 0954

Depth to Water: 25.48 feet

Height of Water Column (L): 28.52 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft

Well Volume (WV) = 4.56 gal. * Purge Factor 3 = Purge Volume 14 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0956	----	----	----	----	
1001	5 gal	7.51	8.27 mS/cm	22.8 °C	clear
1006	10 gal	7.38	8.16 mS/cm	22.9 °C	clear
1010	14 gal	7.49	8.24 mS/cm	22.7 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1011 Time Finished: 1011

Analyses: CLO4 (circled) pH / TDS (circled) CR (circled)

Bottles: 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments: 23.7' To top of screen

Water Sampling Field Log

Well No.: ARP-3A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, clear, sunny

Well Information:

Total Well Depth: 41.0 feet Time: 0954

Depth to Water: 26.96 feet

Height of Water Column (L): 14.04 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 2.24 gal. (Well Volume (WV)) * 3 (Purge Factor) = 7 gal (Purge Volume)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0956	-----	-----	-----	-----	
0959	3 gal	7.31	11.69 mS/cm	22.3°C	clear
1002	5 gal	7.13	11.91 mS/cm	24.1°C	clear
1004	7 gal	7.15	12.02 mS/cm	22.8°C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1005 Time Finished: 1005

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: 20.7 to top of screen

Water Sampling Field Log

Well No.: ARP-4A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 33.0 feet Time: 1117

Depth to Water: 28.53 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L)	Well Volume (WV)	Purge Factor	Purge Volume
4.47 feet * 0.16 gal/ft	= .71 gal.	* 3	= 3gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1119	-----	-----	-----	-----	
1121	1 gal	7.55	5.76 mS/cm	24.0°C	clear
1122	2 gal	7.43	5.98 mS/cm	24.2°C	clear
1123	3 gal	7.37	6.09 mS/cm	24.2°C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1124 Time Finished: 1124

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: screen 17.7 - 32.7

Water Sampling Field Log

Well No.: ARP-5A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 38.0 feet Time: 1133

Depth to Water: 31.39 feet

Height of Water Column (L): 6.61 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft; 4-in. * 0.65 gal/ft; 6-in * 1.47 gal/ft

Well Volume (WV)		Purge Factor		Purge Volume
1.05 gal.	*	3	=	3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1135	----	----	----	----	
1137	1 gal	7.89	4.99 mS/cm	25.6 °C	clear
1138	2 gal	7.81	5.02 mS/cm	24.9 °C	clear
1139	3 gal	7.86	5.07 mS/cm	24.3 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1140 Time Finished: 1140

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: screen 12.7 – 37.7

Dup EC 24.3 / temp 5.06 / EC

Water Sampling Field Log

Well No.: ARP-16B

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, clear

Well Information:

Total Well Depth: 43.0 feet Time: 1151

Depth to Water: 30.96 feet

Height of Water Column (L): 12.04 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft

Well Volume (WV): = 1.92 gal. * Purge Factor: 3 = Purge Volume: 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1152	-----	-----	-----	-----	
1155	2 gal	7.59	992 mS/cm	26.5°C	clear
1157	4 gal	7.57	996 mS/cm	25.6°C	clear
1159	6 gal	7.54	1009 mS/cm	25.0°C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1201 Time Finished: 1201

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: screen 27.7 - 42.7'

Water Sampling Field Log

Well No.: ABP-7

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny, Clear

Well Information:

Total Well Depth: 39.0 feet Time: 1209

Depth to Water: 29.09 feet

Height of Water Column (L): 9.91 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 8-in * 1.47 gal/ft

Well Volume (WV): = 1.58 gal. Purge Factor: * 3 Purge Volume: = 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1212	-----	-----	-----	-----	
1214	2 gal	7.60	9.46 mS/cm	26.7°C	Clear
1216	4 gal	7.62	9.84 mS/cm	26.3°C	Clear
1217	5 gal	7.67	9.91 mS/cm	26.1°C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1218 Time Finished: 1218

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: screen 14 - 39'

Water Sampling Field Log

Well No.: ART-1

Project No.: Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm

Well Information:

Total Well Depth: 56.0 feet Time: 2-3-15 1121

Depth to Water: - 25.15 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	30.85 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1216		7.50	25.2°C	clear

Comments:

Sample Collection Time - 1217

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-1A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-3-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: warm, clear

Well Information:

Total Well Depth: 56.0 feet Time: 1122

Depth to Water: - 23.94 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	32.06 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample

Comments: Depth To water ONLY NO SAMPLE

Sample Collection Time - _____

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 0

Water Sampling Field Log

Well No.: ART-2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-3-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: warm, clear

Well Information:

Total Well Depth: 56.0 feet Time: 1118

Depth to Water: - 27.05 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	28.95 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample

Comments: DTW ONLY

Sample Collection Time - _____

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- Ø

Water Sampling Field Log

Well No.: ART-2A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: warm, clear

Well Information:

Total Well Depth: 58.00 feet 2-3-15 Time: 1119

Depth to Water: - 28.08 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	29.92 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1219		7.23	25.4°C	clear

Comments:

Sample Collection Time - 1220

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-3

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-3-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: Warm, clear

Well Information:

Total Well Depth: 47.0 feet Time: 1110

Depth to Water: - 30.93 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	16.07 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample

Comments: Depth to water only NO SAMPLE

Sample Collection Time - _____

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- Ø

Water Sampling Field Log

Well No.: ART-3A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Warm, Clear

Well Information:

Total Well Depth: 55.0 feet 2-3-15 Time: 1111

Depth to Water: - 38.37 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	16.63 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1225		7.33	25.8°C	Clear

Comments:

Sample Collection Time - 1226

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-14

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm

Well Information:

Total Well Depth: 46.0 feet Time: 2-3-15 1105

Depth to Water: - 38.36 feet

Water Column (L): 7.64 feet X

Well Diameter (circle one)	2-in.	4-in.	6-in.
	0.4893	1.9	4.41

= Purge Volume _____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1227		7.47	26.1°C	Clear

Comments:

Sample Collection Time - 1228

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-4A

Project No.:

Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown

Date: 2-3-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: Warm, clear

Well Information:

Total Well Depth: 46.0 feet Time: 1106

Depth to Water: - 28.77 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	17.23 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample

Comments: Depth to water Only
NO Sample

Sample Collection Time -

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- Ø

Water Sampling Field Log

Well No.: ART-6

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port O Disposable Bailer ● Electric pump O

Weather Conditions: warm

Well Information:

Total Well Depth: 316.0 feet 2-3-15 Time: 1137

Depth to Water: - 28.11 feet

				Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	7.89	feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1259		7.51	22.9	clear

Comments:

Sample Collection Time - 100pm

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-7

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-3-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: Warm sunny

Well Information:

Total Well Depth: 38.9 feet Time: _____

Depth to Water: - _____ feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	_____ feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample

Comments: well capped - no data

Sample Collection Time - _____

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 5

Water Sampling Field Log

Well No.: ART-7A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-3-15

Sampling Method: Sample Port O Disposable Bailer ● Electric pump O

Weather Conditions: warm, clear

Well Information:

Total Well Depth: 40.0 feet 2-3-15 Time: 1135

Depth to Water: - 28.33 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	11.67 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
0944	0	7.39	26.2	clear

Comments: sampled on 2-13-15 added by Environ after all other ART wells were sampled.

Sample Collection Time - 0944

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-7B

Project No.: Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Warm, Clear

Well Information:

Total Well Depth: 50.0 feet 2.315 Time: 1132

Depth to Water: - 37.04 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	12.96 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1230		7.46	24.8°C	Clear

Comments:

Sample Collection Time - 1231

Analyses/ Bottles:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-8

Project No.: Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Warm

Well Information:

Total Well Depth: 50.5 feet 2-3-15 Time: 1114

Depth to Water: - 31.25 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	19.25 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1222		7.24	25.2°C	Clear

Comments:

Sample Collection Time - 1223

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-8A

Project No.:

Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown

Date: 2-3-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: warm, clear

Well Information:

Total Well Depth: 54.0 feet Time: 1116

Depth to Water: - 27.79 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	26.21 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample

Comments: Depth to Water Only
NO SAMPLE

Sample Collection Time -

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- Ø

Water Sampling Field Log

Well No.: ART-9

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Warm

Well Information:

Total Well Depth: 43.0 feet 2-3-15 Time: 1139

Depth to Water: - 29.47 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	13.53 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1232		7.53	24.9°C	Clear

Comments:

Sample Collection Time - 1233

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: L-635

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-11-15

Sampling Method: Electric Pump O Dedicated Baller O Non Dedicated Baller O Ready Flo 2" O

Weather Conditions: windy, clear, warm

Well Information:

Total Well Depth: 45.33 feet Time: 1255

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L)				Well Volume (WV)	Purge Factor	Purge Volume
_____ feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* 3	= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				NO ACCESS
	gal				NO DATA
	gal				NO SAMPLE
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments:

Water Sampling Field Log

Well No.: L-637

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-11-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: windy, clear, warm

Well Information:

Total Well Depth: 39.5 feet Time: 1255

Depth to Water: _____ feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): _____ feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* 3	= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				No Access
	gal				No data
	gal				No sample
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments:

Water Sampling Field Log

Well No.: M-10

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 3-3-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, slight breeze

Well Information:

Total Well Depth: 69.45 feet Time: 1025

Depth to Water: 51.27 feet

Height of Water Column (L): 18.18 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft (Well Diameter (circle one): 2-in. 4-in. 6-in) = 26.72 gal. * x 3 ~ 80 gal (Well Volume (WV))

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1040	-----	-----	-----	-----	
1107	27 gal	7.77	3.34 mS/cm	23.3°C	clear w/ light rust coloration
1134	54 gal	8.30	3.34 mS/cm	24.2°C	same
1200	80 gal	8.80	3.33 mS/cm	24.8°C	same
1210	90 gal	8.30	3.30 mS/cm	23.0°C	same

Sample Appearance: clear w/ light rusty coloration

Sample Collection - Time Start: 1214 Time Finished: 1214

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 6

Comments: Seperate cooler / seperate COC
see bottle order

Top of screen - 43'

Water Sampling Field Log

Well No.: M-11

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breeze

Well Information:

Total Well Depth: 58.0 feet Time: 1318

Depth to Water: 44.34 feet

Height of Water Column (L): 13.66 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft (Well Diameter (circle one): 2-in. 4-in. 6-in) = 20.08 gal. * x 3 = 60 gal (Well Volume (WV))

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1322	-----	-----	-----	-----	
1332	20 gal	7.58	3.32 mS/cm	27.7°c	clear
1342	40 gal	7.59	3.29 mS/cm	26.9°c	clear
1352	60 gal	7.58	3.28 mS/cm	26.4°c	clear

Sample Appearance: clear

Sample Collection - Time Start: 1355 Time Finished: 1355

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 33.3

Water Sampling Field Log

Well No.: M-12A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breeze.

Well Information:

Total Well Depth: 50.0 feet Time: 1247

Depth to Water: 42.61 feet

Height of Water Column (L): 7.39 feet * 0.16 gal/ft (2-in.) / * 0.65 gal/ft (4-in.) / * 1.47 gal/ft (6-in) Well Diameter (circle one) = 4.80 gal. * x 3 = 14 gal Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1253	----	----	----	----	
1256	5 gal	7.66	8.50mS/cm	26.6°C	yellow
1300	10 gal	7.59	8.59mS/cm	25.5°C	yellow
1303	14 gal	7.64	8.56mS/cm	24.8°C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1304 Time Finished: 1304

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 40'

Water Sampling Field Log

Well No.: M-14A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 42.40 feet Time: 1426

Depth to Water: 32.79 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 9.61 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.53 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1434	-----	-----	-----	-----	
1436	2 gal	8.24	4.49 mS/cm	25.5°C	clear
1438	4 gal	8.25	4.42 mS/cm	25.5°C	clear
1439	5 gal	8.35	4.41 mS/cm	24.7°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1440 Time Finished: 1440

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen

Water Sampling Field Log

Well No.: N-19

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warming clouds

Well Information:

Total Well Depth: 41.20 feet Time: 0846

Depth to Water: 35.02 feet

Height of Water Column (L): 6.18 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = .98 gal. * Well Volume (WV) x 3 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
~~0848~~ 0851					
0852	1 gal	7.46	6.70 mS/cm	22.0 °C	clear
0853	2 gal	7.29	6.68 mS/cm	23.3 °C	clear
0854	3 gal	7.27	6.67 mS/cm	23.7 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0855 Time Finished: 0855

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen

Water Sampling Field Log

Well No.: M-22A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, some clouds

Well Information:

Total Well Depth: 36.92 feet Time: 0925

Depth to Water: 30.64 feet

Height of Water Column (L): 6.28 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft 4-in. 0.65 gal/ft 6-in * 1.47 gal/ft

Well Volume (WV) = 1.00 gal. * x 3 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0928	-----	-----	-----	-----	
0931	1 gal	7.08	10.54 mS/cm	23.8 °C	yellow
0932	2 gal	7.13	10.51 mS/cm	24.1 °C	yellow
0933	3 gal	7.14	10.73 mS/cm	24.3 °C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0935 Time Finished: 0935

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 16

Water Sampling Field Log

Well No.: H-23

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Clear

Well Information:

Total Well Depth: 44.47 feet Time: 1048

Depth to Water: 34.72 feet

Height of Water Column (L): 9.75 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 1.56 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1049	-----	-----	-----	-----	
1051	2 gal	7.89	5.48 mS/cm	23.6 °C	Clear
1053	4 gal	7.75	5.38 mS/cm	23.5 °C	Clear
1054	5 gal	7.71	5.35 mS/cm	23.7 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1056 Time Finished: 1056

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-25

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, sunny, breeze

Well Information:

Total Well Depth: 41.47 feet Time: 0835

Depth to Water: 33.54 feet

Height of Water Column (L): 7.93 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 1.26 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0836	-----	-----	-----	-----	
0838	2 gal	7.54	8.33 mS/cm	22.2 °C	yellow
0839	3 gal	7.35	8.48 mS/cm	23.3 °C	yellow
0840	4 gal	7.37	8.50 mS/cm	23.2 °C	yellow

Sample Appearance: / yellow

Sample Collection - Time Start: 0841 Time Finished: 0841

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1-BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 24

Water Sampling Field Log

Well No.: M-31A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, cool

Well Information:

Total Well Depth: 55.0 feet Time: 0721

Depth to Water: 46.48 feet

Height of Water Column (L): 8.52 feet * 0.16 gal/ft (Well Diameter (circle one): 2-in. / 4-in. / 6-in) * 0.65 gal/ft * 1.47 gal/ft = 1.36 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0733	-----	-----	-----	-----	
0734	2 gal	7.26	6.49 mS/cm	19.7	cloudy
0736	3 gal	7.18	6.55 mS/cm	20.8	slightly cloudy yellow
0737	4 gal	7.12	6.52 mS/cm	20.8	slightly cloudy yellow

Sample Appearance: _____

Sample Collection - Time Start: 0738 Time Finished: 0738

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 35

Water Sampling Field Log

Well No.: M-35

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, partial sun, some clouds

Well Information:

Total Well Depth: 39.70 feet Time: 0816

Depth to Water: 32.92 feet

Height of Water Column (L): 6.78 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 1.08 gal. * Well Volume (WV) x 3 = 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0823	----	----	----	----	
0824	1 gal	7.04	4.83 mS/cm	22.7°C	light yellow
0825	2 gal	6.90	5.10 mS/cm	23.7°C	light yellow
0826	3 gal	6.90	5.50 mS/cm	24.0°C	light yellow
0827	4	7.0	5.63 mS/cm	24.3°C	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 0827 Time Finished: 0827

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-36

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-27-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breeze

Well Information:

Total Well Depth: 3785 feet Time: 1043

Depth to Water: _____ feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 = Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				Well destroyed
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments:

Water Sampling Field Log

Well No.: M-37

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, some clouds, breeze

Well Information:

Total Well Depth: 37.18 feet Time: 1120

Depth to Water: 31.88 feet

Height of Water Column (L): 5.3 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft; 4-in. * 0.65 gal/ft; 6-in * 1.47 gal/ft

= .84 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1124	-----	-----	-----	-----	
1126	1 gal	7.14	6.67 mS/cm	23.2 °C	clear
1127	2 gal	7.07	6.76 mS/cm	24.0 °C	clear
1128	3 gal	7.02	6.70 mS/cm	25.4 °C	clear

Sample Appearance: Clear

Sample Collection - Time Start: 1130 Time Finished: 113

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 20'

Dup 3 collected here for same analyses 3 btls 1130

Water Sampling Field Log

Well No.: M-38

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-27-15

Sampling Method: Electric Pump O Dedicated Bailer ● Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breeze

Well Information:

Total Well Depth: 36.82 feet Time: 1046

Depth to Water: 31.36 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 5.46 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1050	1 gal	7.20	10.95 mS/cm	23.4°C	yellow
1052	2 gal	7.17	10.98 mS/cm	23.3°C	yellow
1056	3 gal	7.18	10.95 mS/cm	23.5°C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1058 Time Finished: 1058

Analyses:	CLO4	pH / TDS	CR	pH	TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL		1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 20'

Dup EC 11.13 EC 23.5°C temp

Water Sampling Field Log

Well No.: M-44

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, clear, breezy

Well Information:

Total Well Depth: 37.65 feet Time: 1023

Depth to Water: 25.06 feet

Height of Water Column (L): 12.59 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft, 4-in. * 0.65 gal/ft, 6-in * 1.47 gal/ft

Well Volume (WV) = ~~1.24~~ 2.01 MB gal. * x 3 legal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1024	-----	-----	-----	-----	
1026	2 gal	7.58	10.17 mS/cm	21.8 °C	clear
1027	4 gal	7.51	10.09 mS/cm	23.4 °C	clear
1029	6 gal	7.47	10.15 mS/cm	23.7 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1030 Time Finished: 1030

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 5

FB-1 collected here
CLO4, TDS, pH, CR, CRVI
1035

Dup 1 collected here
for same analyses
3 bttls 1030

Water Sampling Field Log

Well No.: M-48A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warming, breezy, sunny

Well Information:

Total Well Depth: 40.0 feet Time: 0844

Depth to Water: 30.50 feet

Height of Water Column (L): 9.50 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 1.52 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0846	----	----	----	----	
0856	2 gal	7.61	6.58 mS/cm	20.8 °C	clear / light yellow
0858	4 gal	7.35	6.53 mS/cm	23.5 °C	clear / light yellow
0859	5 gal	7.33	6.50 mS/cm	24.4 °C	Clear / light yellow

Sample Appearance: Clear w/ light yellow tint

Sample Collection - Time Start: 0900 Time Finished: 0900

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 19.7
changed pumps here

Water Sampling Field Log

Well No.: M-52

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, cloudy

Well Information:

Total Well Depth: 47.38 feet Time: 0751

Depth to Water: 42.06 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 5.32 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .85 gal. * x 3 = Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0754	-----	-----	-----	-----	
0755	1 gal	7.20	5.76 mS/cm	20.2°C	slightly cloudy
0756	2 gal	7.21	5.76 mS/cm	21.5°C	clear light yellow
0757	3 gal	7.20	5.81 mS/cm	22.3°C	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 0758 Time Finished: 0758

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-55

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-11-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 45.0 feet Time: 1004

Depth to Water: 29.52 feet

Height of Water Column (L): 15.48 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = _____ gal. * x 3 = _____

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments: Top of screen - 14.6

Water Sampling Field Log

Well No.: M-56

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 40.0 feet Time: 1009

Depth to Water: 31.79 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 8.21 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 15

Water Sampling Field Log

Well No.: M-57A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny, Clear

Well Information:

Total Well Depth: 42.40 feet Time: 1411

Depth to Water: 29.87 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 12.53 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.00 gal. * x 3 Well Volume (WV) 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1413	-----	-----	-----	-----	
1415	2 gal	8.34	4.91 mS/cm	25.3 °C	cloudy
1417	4 gal	8.16	4.81 mS/cm	25.6 °C	slightly cloudy
1419	6 gal	8.25	4.78 mS/cm	25.4 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1420 Time Finished: 1420

Analyses:	~~CLO4~~	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 20

Water Sampling Field Log

Well No.: M-58

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 45.0 feet Time: 1014

Depth to Water: 30.23 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 14.77 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 15

Water Sampling Field Log

Well No.: M-60

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 43.0 feet Time: 1010

Depth to Water: 32.54 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 10.46 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
-----	-----	-----	-----	-----	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments: Top of screen - 17.8

Water Sampling Field Log

Well No.: M-64

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy clear

Well Information:

Total Well Depth: 38.0 feet Time: 0929

Depth to Water: 28.5 feet

Height of Water Column (L): 9.5 feet * Well Diameter (circle one) 2-in. 0.16 gal/ft 4-in. 0.65 gal/ft 6-in 1.47 gal/ft = 1.52 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0931	-----	-----	-----	-----	
0933	2 gal	7.89	3.81 mS/cm	18.5 °C	Cloudy
0934	4 gal	7.76	3.64 mS/cm	20.0 °C	Clear
0935	5 gal	7.67	3.61 mS/cm	20.1 °C	Clear

Sample Appearance: Clear

Sample Collection: Time Start: 0936 Time Finished: 0936

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 12.7

EB-1 collected here before moving to next well 3 bottles
clo4, CR, CRVI, pH, TDS
0948

Water Sampling Field Log

Well No.: M-165

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy, clear

Well Information:

Total Well Depth: 40.0 feet Time: 0900

Depth to Water: 33.13 feet

Height of Water Column (L): 6.87 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = Well Volume (WV) 1.09 gal. * x 3 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0903	----	----	----	----	
0905	1 gal	7.41	13.46 mS/cm	22.3 °C	yellow
0906	2 gal	7.10	13.45 mS/cm	23.1 °C	yellow
0907	3 gal	7.09	13.46 mS/cm	23.6 °C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0908 Time Finished: 0908

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 14.4

Water Sampling Field Log

Well No.: M-66

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, clear

Well Information:

Total Well Depth: 43.0 feet Time: 1230

Depth to Water: 31.53 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 11.47 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.83 gal. * x 3 Well Volume (WV) 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1234	-----	-----	-----	-----	
1236	2 gal	7.16	14.44 mS/cm	25.7°C	yellow
1238	4 gal	7.20	14.39 mS/cm	25.4°C	yellow
1240	6 gal	7.06	14.33 mS/cm	25.5°C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1242 Time Finished: 1242

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 17.5'

Water Sampling Field Log

Well No.: M-67

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breeze

Well Information:

Total Well Depth: 38.0 feet Time: 1049

Depth to Water: 21.93 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 16.07 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.57 gal. * x 3 Well Volume (WV) 8 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1053	-----	-----	-----	-----	
1057	3 gal	6.94	6.81 mS/cm	28.0 °C	light yellow
1059	6 gal	6.82	6.68 mS/cm	26.2°C	light yellow
1101	8 gal	6.88	6.71 mS/cm	25.3°C	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 1103 Time Finished: 1103

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: TOP of screen 7.8
EB-2 collected here before moving to next well 1110
CR, TDS, pH, CLO4, CRVI 3 bttls

Water Sampling Field Log

Well No.: N-68

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: sunny, some clouds, warm

Well Information:

Total Well Depth: 41.0 feet Time: 0928

Depth to Water: 26.04 feet

Height of Water Column (L): 14.96 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = Well Volume (WV) 2.39 gal. * x 3 7 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0931	----	----	----	----	
0933	3 gal	7.16	7.65 mS/cm	22.2 °C	slight yellow
0935	5 gal	7.07	7.23 mS/cm	23.5 °C	slight yellow
0938	7 gal	7.11	7.16 mS/cm	23.8 °C	very slight yellow

Sample Appearance: very slight yellow

Sample Collection - Time Start: 0939 Time Finished: 0939

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 11.2

Dup-2 collected here for same analyses - 3 btls

Water Sampling Field Log

Well No.: M-69

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 40.0 feet Time: 1356

Depth to Water: 33.75 feet

Height of Water Column (L): 6.25 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 1.06 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1359	-----	-----	-----	-----	
1401	1 gal	8.27	5.39 mS/cm	24.9 °C	clear
1402	2 gal	8.26	5.24 mS/cm	25.5 °C	clear
1403	3 gal	8.20	5.20 mS/cm	25.6 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1404 Time Finished: 1404

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 19.9

Deep EC 5.20 / EC 25.4 / temp

Water Sampling Field Log

Well No.: M-70

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, breezy, clear

Well Information:

Total Well Depth: 41.0 feet Time: 1312

Depth to Water: 35.18 feet

Height of Water Column (L): 5.82 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) | 4-in. * 0.65 gal/ft | 6-in * 1.47 gal/ft

= .93 gal. * x 3 = 3 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1315	----	----	----	----	
1317	1 gal	7.71	8.12 mS/cm	23.4 °C	light yellow
1318	2 gal	7.53	8.32 mS/cm	24.3 °C	light yellow
1319	3 gal	7.53	8.32 mS/cm	24.3 °C	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 1320 Time Finished: 1320

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 15.3

Water Sampling Field Log

Well No.: M-11

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, breezy, clear

Well Information:

Total Well Depth: 43.0 feet Time: 1326

Depth to Water: 36.57 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 6.43 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.02 gal. * x 3 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1328	----	----	----	----	
1329	1 gal	7.53	8.22 mS/cm	24.7°C	light yellow
1330	2 gal	7.48	7.82 mS/cm	25.3°C	Light yellow
1331	3 gal	7.48	7.81 mS/cm	25.0°C	Light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 1333 Time Finished: 1333

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 17.5

Water Sampling Field Log

Well No.: M-72

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 36.0 feet Time: 1339

Depth to Water: 32.08 feet

Height of Water Column (L): 3.92 feet

Well Diameter (circle one): 2-in. (0.16 gal/ft) 4-in. (* 0.65 gal/ft) 6-in (* 1.47 gal/ft) = .62 gal. * x 3 Well Volume (WV) 2 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1344	----	----	----	----	
1345	1 gal	7.16	11.48 mS/cm	26.5 °C	yellow
1346	1.5 gal	6.96	11.57 mS/cm	26.9 °C	yellow
1347	2 gal	6.94	11.55 mS/cm	25.6 °C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1348 Time Finished: 1348

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 10.1

Water Sampling Field Log

Well No.: M-73

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breeze

Well Information:

Total Well Depth: 36.0 feet Time: 1025

Depth to Water: 28.32 feet

Height of Water Column (L): 7.68 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 1.22 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1029	----	----	----	----	
1031	2 gal	7.95	9.36 mS/cm	24.7 °C	yellow
1033	3 gal	7.80	8.75 mS/cm	24.2 °C	yellow
1035	4 gal	7.74	8.44 mS/cm	23.9 °C	yellow
1036	5	7.60	8.96 mS/cm	24.8 °C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1036 Time Finished: 1036

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 11

Water Sampling Field Log

Well No.: M-74

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breeze

Well Information:

Total Well Depth: 39.0 feet Time: 0952

Depth to Water: 27.58 feet

Height of Water Column (L): 11.42 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 1.82 gal. * x 3 Well Volume (WV) 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0957	----	----	----	----	
0959	2 gal	7.42	7.41 mS/cm	23.4 °C	clear
1002	4 gal	7.35	7.33 mS/cm	23.5 °C	clear
1005	6 gal	7.25	7.34 mS/cm	24.2 °C	clear

Sample Appearance: Clear

Sample Collection - Time Start: 1005 Time Finished: 1005

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 9.2

Water Sampling Field Log

Well No.: M-75

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 53.90 feet Time: 1052

Depth to Water: 42.43 feet

Height of Water Column (L): 11.47 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Well Diameter (circle one): 2-in. 4-in. 6-in

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen 34.6

Water Sampling Field Log

Well No.: M-76

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 54.60 feet Time: 1053

Depth to Water: 39.38 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 15.22 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 34.6

Water Sampling Field Log

Well No.: M-MM

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 47.20 feet Time: 1049

Depth to Water: 40.21 feet

Height of Water Column (L): 6.95 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft

Well Volume (WV) = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments:

Water Sampling Field Log

Well No.: M-78

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 43.6 feet Time: 1000

Depth to Water: 32.38 feet

Height of Water Column (L): 11.22 feet

Well Diameter (circle one)	2-in.	4-in.	6-in
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft

= _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Comments: Top of screen - 21.5

TOTAL BOTTLES: 0

Water Sampling Field Log

Well No.: M-79

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 37.6 feet Time: 1253

Depth to Water: 31.43 feet

Height of Water Column (L): 6.17 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = .98 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1300	-----	-----	-----	-----	
1302	1 gal	7.88	7.03 mS/cm	25.3°C	clear
1303	2 gal	7.81	6.01 mS/cm	25.3°C	clear
1304	3 gal	7.71	6.00 mS/cm	25.2°C	clear
1305	4	7.69	5.97 mS/cm	25.0°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1305 Time Finished: 1305

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 10.8

Water Sampling Field Log

Well No.: M-80

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breeze

Well Information:

Total Well Depth: 43.70 feet Time: 1215

Depth to Water: 36.20 feet

Height of Water Column (L): 7.50 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 4.87 gal. * x 3 = 15 gal (Well Volume (WV))

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1216	-----	-----	-----	-----	
1219	5 gal	7.30	4.46 mS/cm	23.8 °C	light yellow
1222	10 gal	7.20	4.44 mS/cm	24.6 °C	clear
1225	15 gal	7.10	4.43 mS/cm	23.7 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1226 Time Finished: 1226

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: TOP of screen - 11.5 Dup EC

4.46 EC 23.5 temp

Water Sampling Field Log

Well No.: M-81A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breeze

Well Information:

Total Well Depth: 41.60 feet Time: 1147

Depth to Water: 35.71 feet

Well Diameter (circle one): 2-in. / 4-in. / 6-in

Height of Water Column (L): 5.89 feet * 0.16 gal/ft / * 0.65 gal/ft / * 1.47 gal/ft = 3.82 gal. * x 3 Well Volume (WV) 12 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1149	-----	-----	-----	-----	
1152	4 gal	7.36	6.50 mS/cm	26.1 °C	clear
1158	8 gal	7.01	6.07 mS/cm	25.8 °C	clear
1201	12 gal	7.11	6.04 mS/cm	25.4 °C	clear

Sample Appearance: _____

Sample Collection - Time Start: 1203 Time Finished: 1203

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen Dup 4 collected here for same analyses

Water Sampling Field Log

Well No.: M-83

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-13-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, clear, sunny

Well Information:

Total Well Depth: 41.75 feet Time: 0836

Depth to Water: 31.47 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 10.28 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.64 gal. * 3 = 5 gal

Well Volume (WV)	Purge Factor	Purge Volume
1.64 gal.	3	5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0840	-----	-----	-----	-----	
0842	2 gal	7.47	4.97 mS/cm	20.6°C	clear
0844	4 gal	7.28	5.06 mS/cm	22.1°C	clear
0845	5 gal	7.24	5.08 mS/cm	22.2°C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 0846 Time Finished: 0846

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: High concentration pump and hose
screen 10.8 - 40.3'

Water Sampling Field Log

Well No.: M-92

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 48.50 feet Time: 1026

Depth to Water: 36.06 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 12.44 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				DTW ONLY
	gal				NO SAMPLE
	gal				

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 34.9

Water Sampling Field Log

Well No.: M-93

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, some clouds

Well Information:

Total Well Depth: 49.0 feet Time: 1030

Depth to Water: 35.25 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 13.75 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				DTW ONLY
	gal				NO SAMPLE
	gal				

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 35.4

Water Sampling Field Log

Well No.: M-95

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Clear, cool

Well Information:

Total Well Depth: 30.0 feet Time: 1120

Depth to Water: 17.93 feet

Height of Water Column (L): 12.07 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 1.93 gal. * x 3 6 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1121	-----	-----	-----	-----	
1123	2 gal	7.42	7.20 mS/cm	23.3°C	clear
1125	4 gal	7.30	7.18 mS/cm	24.1°C	clear
1128	6 gal	7.29	7.22 mS/cm	20.8°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1130 Time Finished: 1130

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen. 12'

Water Sampling Field Log

Well No.: M-96

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 116.90 feet Time: 0802

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 = Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				Well Dry
	gal				NO SAMPLE

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 10.5

Water Sampling Field Log

Well No.: M-97

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, some clouds

Well Information:

Total Well Depth: 52.50 feet Time: 1028

Depth to Water: 39.91 feet

Height of Water Column (L): 12.59 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 35

Water Sampling Field Log

Well No.: M-98

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Clear, Warm, Breezy

Well Information:

Total Well Depth: 33.40 feet Time: 1108

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				DRY
	gal				No Sample
	gal				

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 19

Water Sampling Field Log

Well No.: M-99

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer ● (Disposable) Ready Flo 2" O

Weather Conditions: cool, overcast

Well Information:

Total Well Depth: 35.59 feet Time: 0636

Depth to Water: 33.70 feet

Height of Water Column (L): 1.89 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0637	gal	7.43	4.87 mS/cm	24.0	slightly cloudy
	gal				
	gal				
					well not purged due to
					low water level

Sample Appearance: /

Sample Collection - Time Start: 0640 Time Finished: 0640

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 16

Water Sampling Field Log

Well No.: M-100

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 33.81 feet Time: 1105

Depth to Water: _____ feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 = Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				Dry
	gal				DTW only
					NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments: Top of screen

Total Well Depth measured in field

33.37

Water Sampling Field Log

Well No.: M-101

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-11e-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, some clouds

Well Information:

Total Well Depth: 32.15 feet Time: 1103

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				
	gal				Dry
					DTW ONLY
					NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen

Total Well Depth measured in field 31.93

Water Sampling Field Log

Well No.: M-115

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-11-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 47.50 feet Time: 1059

Depth to Water: 37.98 feet

Height of Water Column (L): 9.520 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft, 4-in. * 0.65 gal/ft, 6-in * 1.47 gal/ft = _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 3b

Water Sampling Field Log

Well No.: M-131

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy,

Well Information:

Total Well Depth: 39.0 feet Time: 0821

Depth to Water: 33.59 feet

Height of Water Column (L): 5.41 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = .86 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0822	-----	-----	-----	-----	
0823	1 gal	7.75	4.45 mS/cm	23.5 °C	clear
0824	2 gal	7.70	4.48 mS/cm	24.0 °C	clear
0825	3 gal	7.66	4.51 mS/cm	23.6 °C	clear

Sample Appearance: Clear

Sample Collection - Time Start: 0827 Time Finished: 0827

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 28.7

Water Sampling Field Log

Well No.: M-135

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clear, breezy

Well Information:

Total Well Depth: 39.0 feet Time: 0800

Depth to Water: 34.71 feet

Height of Water Column (L): 4.29 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = .68 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0806	-----	-----	-----	-----	
0807	1 gal	7.80	4.59 mS/cm	22.5 °C	slightly cloudy
0808	2 gal	7.68	4.51 mS/cm	23.6 °C	slightly cloudy
0809	3 gal	7.67	4.50 mS/cm	23.8 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0810 Time Finished: 0810

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 28.7

Water Sampling Field Log

Well No.: M-1166

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 32.0 feet Time: 0957

Depth to Water: 29.76 feet

Height of Water Column (L): 2.24 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft; 4-in. * 0.65 gal/ft; 6-in * 1.47 gal/ft = _____ gal. * x 3 _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
-----	-----	-----	-----	-----	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-1167

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 30.0 feet Time: 0959

Depth to Water: 28.69 feet

Height of Water Column (L): 1.31 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments:

Water Sampling Field Log

Well No.: M-1168

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 35.0 feet Time: 1000

Depth to Water: 26.19 feet

Height of Water Column (L): 8.81 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				DTW ONLY
	gal				NO SAMPLE
	gal				

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 21.7

Water Sampling Field Log

Well No.: M-1169

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, some clouds

Well Information:

Total Well Depth: 35.0 feet Time: 1002

Depth to Water: 28.42 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 6.58 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen- 24.7

Water Sampling Field Log

Well No.: M-170

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, some clouds

Well Information:

Total Well Depth: 35.0 feet Time: 1003

Depth to Water: 29.21 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 5.79 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 24.7

Water Sampling Field Log

Well No.: M-172

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-16-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, some clouds

Well Information:

Total Well Depth: 37.0 feet Time: 1007

Depth to Water: 33.45 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 3.55 feet * 0.16 gal/ft 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 26.7

Water Sampling Field Log

Well No.: M-173

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 2-15-16

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, some clouds

Well Information:

Total Well Depth: 40.0 feet Time: 1012

Depth to Water: 29.36 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 10.64 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 24.7

Water Sampling Field Log

Well No.: M-174

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-17-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 28.0 feet Time: 0736

Depth to Water: 20.57 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 7.43 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 17.7

Water Sampling Field Log

Well No.: M-193

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-17-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: COOL, Clear

Well Information:

Total Well Depth: 29.0 feet Time: 0933

Depth to Water: 21.33 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 7.67 feet 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 18.7

Water Sampling Field Log

Well No.: M-176

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-17-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 30.0 feet Time: 0733

Depth to Water: 24.02 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 5.98 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 19.7

Water Sampling Field Log

Well No.: N-177

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-17-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 30.0 feet Time: 0731

Depth to Water: 21.54 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 8.46 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 19.7

Water Sampling Field Log

Well No.: MW1K4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-15

Sampling Method: Electric Pump ⊗ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 50.0 feet Time: 1056

Depth to Water: 27.69 feet

Height of Water Column (L): 22.31 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in.) = 3.56 gal. (Well Volume (WV)) * 3 (Purge Factor) = 11 gal (Purge Volume)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1057	----	----	----	----	
1100	4 gal	7.54	10.19 mS/cm	26.7 °C	clear
1103	8 gal	7.41	10.25 mS/cm	26.2 °C	clear
1106	11 gal	7.31	10.27 mS/cm	26.1 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1108 Time Finished: 1108

Analyses: CLO4 / pH / TDS / CR

Bottles: 1 BTL / 1 BTL / 1 BTL

TOTAL BOTTLES: 3

Comments: 9.5' To top of screen

Water Sampling Field Log

Well No.: MW-K5

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-15

Sampling Method: Electric Pump ⊗ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny, Clear

Well Information:

Total Well Depth: 44.0 feet Time: 1244

Depth to Water: 29.89 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 14.11 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = Well Volume (WV) 2.25 gal. * Purge Factor 3 = Purge Volume 7 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1245					
1248	3 gal	7.38	9.19 mS/cm	24.5 °C	clear
1250	5 gal	7.29	9.23 mS/cm	24.7 °C	clear
1252	7 gal	7.31	9.26 mS/cm	25.3 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1253 Time Finished: 1253

Analyses: ClO4 pH / TDS CR
Bottles: 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 28.5'

Water Sampling Field Log

Well No.: PC-18

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-13-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 52.11 feet Time: 1221

Depth to Water: 28.18 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft, 4-in. * 0.65 gal/ft, 6-in * 1.47 gal/ft

Height of Water Column (L)	Well Volume (WV)	Purge Factor	Purge Volume
23.93 feet	= 3.82 gal.	* 3	= 12 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1223	-----	-----	-----	-----	
1227	4 gal	7.53	14.35mS/cm	26.6°C	Clear
1230	8 gal	7.52	14.33mS/cm	25.9°C	Clear
1233	12 gal	7.51	14.29mS/cm	25.7 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1235 Time Finished: 1235

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Screen 11.5 – 51.5

Water Sampling Field Log

Well No.: PC-37

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny, Breezy

Well Information:

Total Well Depth: 43.08 feet Time: 0917

Depth to Water: 30.50 feet

Height of Water Column (L): 12.58 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) | 4-in. * 0.65 gal/ft | 6-in * 1.47 gal/ft

= 2.01 gal. * x 3 Well Volume (WV) 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0918	----	----	----	----	
0920	2 gal	7.98	9.79mS/cm	22.6°C	Clear
0922	4 gal	7.74	9.76mS/cm	23.6°C	Clear
0924	6 gal	7.68	9.79mS/cm	23.1°C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0925 Time Finished: 0925

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen -16.8

Water Sampling Field Log

Well No.: PC-53

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny, Clear

Well Information:

Total Well Depth: 32.86 feet Time: 1229

Depth to Water: 26.91 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft

Height of Water Column (L)	Well Volume (WV)	Purge Factor	Purge Volume
5.95 feet	= .95 gal.	* 3	= 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1230	----	----	----	----	
1232	1 gal	7.66	594 mS/cm	25.4°C	Clear
1233	2 gal	7.64	596 mS/cm	25.3°C	Clear
1234	3 gal	7.63	600 mS/cm	25.7°C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1235 Time Finished: 1235

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Screen 13 — 32.5'

Water Sampling Field Log

Well No.: PC-54

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown,

Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clear, breezy

Well Information:

Total Well Depth: 34.60 feet Time: 0830

Depth to Water: 24.45 feet

Height of Water Column (L): 10.15 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft, 4-in. * 0.65 gal/ft, 6-in * 1.47 gal/ft = 1.62 gal. * x 3 = 5 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0832	----	----	----	----	
0834	2 gal	7.54	5.96 mS/cm	19.9 °C	cloudy
0836	4 gal	7.43	5.97 mS/cm	22.8 °C	cloudy
0837	5 gal	7.52	6.05 mS/cm	22.4 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0839 Time Finished: 0839

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 9.5

Water Sampling Field Log

Well No.: PC-55

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-13-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, clear, sunny

Well Information:

Total Well Depth: 55.4 feet Time: 1030

Depth to Water: 27.25 feet

Height of Water Column (L): 28.15 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft (Well Diameter (circle one): 2-in. 4-in. 6-in) = Well Volume (WV): 41.38 gal. * Purge Factor: 3 = Purge Volume: 124 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1032	------	------	------	------	
1107	42 gal	7.69	10.90 mS/cm	26.3°C	clear
1139	41 gal	7.57	10.72 mS/cm	25.6°C	clear
1210	41 gal	7.81	10.77 mS/cm	27.5°C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1212 Time Finished: 1212

Analyses: CLO4 / pH / TDS / CR

Bottles: 1 BTL / 1 BTL / 1 BTL

TOTAL BOTTLES: 3

Comments: Screen 4 - 54'

Dup EC 27.7°C temp 10.81 EC

MEB-1 collected here 1215 before moving to next well Clou only

Water Sampling Field Log

Well No.: PC-56

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-10-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: windy, clear, warm

Well Information:

Total Well Depth: 63.58 feet Time: 1125

Depth to Water: 20.53 feet

Height of Water Column (L): 43.05 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = Well Volume (WV): 6.88 gal. * Purge Factor: 3 = Purge Volume: 21 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1129	-----	-----	-----	-----	
1134	7 gal	7.27	6.68 mS/cm	23.7 °C	clear
1140	14 gal	7.16	6.67 mS/cm	24.0 °C	Clear
1146	21 gal	7.15	6.69 mS/cm	23.7 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1148 Time Finished: 1148

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Screen 4.8 - 54.8

Water Sampling Field Log

Well No.: PC-58

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-10-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: breezy, warm, clear

Well Information:

Total Well Depth: 42.78 feet Time: 1105

Depth to Water: 21.29 feet

Height of Water Column (L): 21.49 feet * 0.16 gal/ft (2-in.) / 0.65 gal/ft (4-in.) / 1.47 gal/ft (6-in) = 3.43 gal. * 3 = 10 gal

Well Volume (WV) | Purge Factor | **Purge Volume**

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1106	-----	----	-----	-----	
1110	5 gal	7.31	4.82 mS/cm	25.2°C	Clear
1113	7 gal	7.24	4.81 mS/cm	24.2°C	Clear
1115	10 gal	7.24	4.77 mS/cm	23.8°C	Clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1116 Time Finished: 1116

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: screen 7.8 - 32.8

Water Sampling Field Log

Well No.: PC-59

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-10-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Windy, clear, warm

Well Information:

Total Well Depth: 48.13 feet Time: 1223

Depth to Water: 19.12 feet

Well Diameter (circle one)

	2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): 29.01 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 4.64 gal.	* 3	= 14 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1224	-----	-----	-----	-----	
1228	5 gal	7.50	3.82 mS/cm	22.7 °C	clear
1231	10 gal	7.45	3.79 mS/cm	22.9 °C	clear
1235	14 gal	7.46	3.77 mS/cm	22.4 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1236 Time Finished: 1236

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Screen 4.8 - 34.8

Water Sampling Field Log

Well No.: PC-60

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-10-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: windy, warm, clear

Well Information:

Total Well Depth: 48.09 feet Time: 1200

Depth to Water: 19.71 feet

Height of Water Column (L): 28.38 feet * 0.16 gal/ft (2-in.) / * 0.65 gal/ft (4-in.) / * 1.47 gal/ft (6-in) = 4.54 gal. * 3 = 14 gal

Well Volume (WV)	Purge Factor	Purge Volume
4.54 gal.	3	14 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1203					
1207	5 gal	7.65	3.25 mS/cm	22.6°C	clear
1211	10 gal	7.56	3.21 mS/cm	23.3°C	clear
1213	14 gal	7.63	3.24 mS/cm	22.1°C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1215 Time Finished: 1215

Analyses: CLO4 / pH / TDS / CR
Bottles: 1 BTL / 1 BTL / 1 BTL

TOTAL BOTTLES: 3

Comments: Screen 4.5 – 39.5

Water Sampling Field Log

Well No.: PC-62

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-11-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: breezy, warm, clear

Well Information:

Total Well Depth: 45.91 feet Time: 1031

Depth to Water: 18.43 feet

Height of Water Column (L): 27.48 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft

Well Volume (WV)	Purge Factor	Purge Volume
= 4.39 gal.	* 3	= 13 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1033					
1037	5 gal	7.47	3.01 mS/cm	20.9 °C	Clear
1040	9 gal	7.38	2.74 mS/cm	20.7 °C	Clear
1044	13 gal	7.36	2.75 mS/cm	20.1 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1045 Time Finished: 1045

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Screen 7.6 – 37.6

Water Sampling Field Log

Well No.: PC-68

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-11-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Breezy, clear, warm

Well Information:

Total Well Depth: 64.72 feet Time: 1058

Depth to Water: 18.49 feet

Height of Water Column (L): 46.23 feet * 0.16 gal/ft (2-in.) / 0.65 gal/ft (4-in.) / * 1.47 gal/ft (6-in) = 7.39 gal. * 3 = 22 gal

Well Diameter (circle one)

Well Volume (WV)	Purge Factor	Purge Volume
7.39 gal.	3	22 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1059					
1106	8 gal	7.36	2.72 mS/cm	21.7 °C	clear
1112	15 gal	7.27	2.74 mS/cm	21.6 °C	clear
1118	22 gal	7.19	2.73 mS/cm	21.7 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1120 Time Finished: 1120

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: screen 9.9 -54.9

Dup EC 21.2 temp 2.72 EC

Water Sampling Field Log

Well No.: PC-71

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, clear, breezy

Well Information:

Total Well Depth: 33.23 feet Time: 1004

Depth to Water: 27.84 feet

Height of Water Column (L): 5.39 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = .86 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1005	---	---	---	---	
1006	1 gal	7.72	894 mS/cm	22.8 °C	Cloudy
1007	2 gal	7.55	9.67 mS/cm	23.7 °C	Clear
1008	3 gal	7.52	9.61 mS/cm	23.9 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1010 Time Finished: 1010

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 13.4

Water Sampling Field Log

Well No.: PC-72

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, clear, breezy

Well Information:

Total Well Depth: 39.54 feet Time: 0950

Depth to Water: 30.68 feet

Height of Water Column (L): 8.86 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = 1.41 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0951	----	----	----	----	
0953	2 gal	7.57	8.52 mS/cm	22.4 °C	clear
0954	3 gal	7.53	8.56 mS/cm	23.9 °C	clear
0955	4 gal	7.52	8.59 mS/cm	24.5 °C	clear

Sample Appearance: /

Sample Collection - Time Start: 0956 Time Finished: 0956

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 15

Water Sampling Field Log

Well No.: PC-73

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breezy

Well Information:

Total Well Depth: 49.44 feet Time: 0936

Depth to Water: 31.75 feet

Height of Water Column (L): 17.69 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 2.83 gal. * x 3 Well Volume (WV) 9 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0937	----	----	----	----	
0939	3 gal	7.79	9.42 mS/cm	21.8 °C	clear
0941	6 gal	7.65	9.20 mS/cm	22.9 °C	clear
0943	9 gal	7.54	9.21 mS/cm	23.3 °C	clear

Sample Appearance: /

Sample Collection - Time Start: 0945 Time Finished: 0945

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 20

Dup EC 9.24 EC 23.1 temp

Water Sampling Field Log

Well No.: PC-86

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-11-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, breezy, clear

Well Information:

Total Well Depth: 28.0 feet Time: 1130

Depth to Water: 12.05 feet

Height of Water Column (L): 15.95 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft

Well Volume (WV): = 2.55 gal. * Purge Factor: 3 = Purge Volume: 8 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1136	-----	-----	-----	-----	
1138	3 gal	7.51	2.93 mS/cm	22.2 °C	clear
1140	6 gal	7.45	2.88 mS/cm	21.7 °C	clear
1142	8 gal	7.49	3.03 mS/cm	20.3 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1143 Time Finished: 1143

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

Screen 17.5 – 27.5

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-90

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-11-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, clear, slight breeze

Well Information:

Total Well Depth: 33.0 feet Time: 0920

Depth to Water: 5.98 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 27.02 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 4.32 gal. * 3 = 13 gal

Well Volume (WV) | Purge Factor | Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0924	-----	-----	-----	-----	
0928	5 gal	7.46	4.35 mS/cm	21.5 °C	clear
0931	9 gal	7.36	4.38 mS/cm	21.2 °C	clear
0935	13 gal	7.39	4.32 mS/cm	21.2 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 0936 Time Finished: 0936

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

Screen 4.5 – 14.5

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-91

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-11-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: breezy, warm, clear

Well Information:

Total Well Depth: 37.0 feet Time: 0945

Depth to Water: 11.01 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft

Height of Water Column (L):	Well Volume (WV)	Purge Factor	Purge Volume
25.99 feet	= 4.15 gal.	* 3	= 12 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0947	----	----	----	----	
0950	4 gal	7.34	4.17 mS/cm	20.7°C	clear
0952	8 gal	7.27	4.17 mS/cm	21.7°C	clear
0955	12 gal	7.25	4.18 mS/cm	20.9	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 0956 Time Finished: 0956

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Screen 26.5 - 36.5

Water Sampling Field Log

Well No.: PC-94

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-11-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: breezy, warm, clear

Well Information:

Total Well Depth: 20.0 feet Time: 1007

Depth to Water: 11.92 feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): 8.08 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 1.29 gal.	* 3	= 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1007	-----	-----	-----	-----	
1011	2 gal	7.05	8.05mS/cm	21.5°c	Dirty
1012	3 gal	7.01	8.27mS/cm	22.3°c	clear
1013	4 gal	6.98	8.41mS/cm	22.7°c	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1015 Time Finished: 1015

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: 8" cast lid missing

Water Sampling Field Log

Well No.: PC-95

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: _____

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: _____ feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal			P+A	
	gal			years ago	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments:

Water Sampling Field Log

Well No.: PC-97

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Clear, sunny, warm

Well Information:

Total Well Depth: 33.5 feet Time: 0914

Depth to Water: 4.63 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L)		Well Diameter	Well Volume (WV)		Purge Factor		Purge Volume
28.87 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 4.61 gal.	* 3	=	14 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0918	-----	-----	------	----	
0922	5 gal	7.43	3.40 mS/cm	20.1 °C	clear
0926	10 gal	7.24	3.36 mS/cm	21.2 °C	Clear
0930	14 gal	7.22	3.36 mS/cm	21.7 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 0931 Time Finished: 0931

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

screen 23'-33'

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-98R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-18-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, clear

Well Information:

Total Well Depth: 40.5 feet Time: 1110

Depth to Water: 22.95 feet

Height of Water Column (L): 17.55 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 11.40 gal. * 3 = 34 gal

Well Volume (WV) | Purge Factor | Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1112	----	----	----	----	
1122	12 gal	7.31	8.85mS/cm	26.2°C	clear
1132	24 gal	7.35	8.70mS/cm	26.2°C	clear
1142	34 gal	7.43	8.74mS/cm	26.2°C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1145 Time Finished: 1145

Analyses: CLO4 | pH / TDS | CR

Bottles: 1 BTL | 1 BTL | 1 BTL

TOTAL BOTTLES: 3

nments: screen 20'-35' Dup EC

26.2 temp 8.76 EC

1

Water Sampling Field Log

Well No.: PC-99R2/R3

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ◉ Disposable Bailer O Electric pump O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 55.3 feet 2-4-15 Time: 0920

Depth to Water: - 13.09 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	42.21 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1115		7.19	23.0	Clear

Comments:

Sample Collection Time - 1116

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-101R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, clear, sunny

Well Information:

Total Well Depth: 50.58 feet Time: 1033

Depth to Water: 28.32 feet

Height of Water Column (L): 22.26 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 3.56 gal. * 3 = 11 gal

Well Volume (WV) | Purge Factor | Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1035	----	----	----	----	
1038	4 gal	6.94	14.99 mS/cm	24.4°	clear
1041	8 gal	6.96	15.01 mS/cm	24.8°	clear
1044	11 gal	6.95	15.03 mS/cm	25.3°	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1045 Time Finished: 1045

Analyses:	CLO4	pH / TDS	CR
Bottles:	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: screen 20 - 50'

Water Sampling Field Log

Well No.: PC-103

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-18-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: clear, warm

Well Information:

Total Well Depth: 31.80 feet Time: 1054

Depth to Water: 23.51 feet

Height of Water Column (L): 8.29 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft

Well Volume (WV): = 1.32 gal. * Purge Factor: 3 = Purge Volume: 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1057	-----	-----	-----	-----	
1059	2 gal	7.60	6.48 mS/cm	27.6 °C	clear
1100	3 gal	7.37	6.53 mS/cm	24.3 °C	clear
1101	4 gal	7.27	6.53 mS/cm	24.5 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: 1102 Time Finished: 1102

Analyses: CLO4 / pH / TDS / CR

Bottles: 1 BTL / 1 BTL / 1 BTL

TOTAL BOTTLES: 3

Comments: BMI Lock removed by Environ sampling team - replaced with Lock + key 410

Screen - 9 - 29'

Water Sampling Field Log

Well No.: PC-115R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm

Well Information:

Total Well Depth: 55.5 feet 2-4-15 Time: 0926

Depth to Water: - 11.00 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	44.50 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1117		7.27	22.4	Clear

Comments:

Sample Collection Time - 1118

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-116R

Project No.: Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm

Well Information:

Total Well Depth: 55.5 feet 2-4-15 Time: 0918

Depth to Water: - 12.98 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	42.52 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1119		7.18	22.3	Clear

Comments:

Sample Collection Time - 1120

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-117

Project No.: Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm

Well Information:

Total Well Depth: 53.0 feet 2-4-15 Time: 0913

Depth to Water: - 10.88 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	42.12 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1122		7.18	21.1	clear

Comments:

Sample Collection Time - 1123

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-118

Project No.: Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Warm

Well Information:

Total Well Depth: 51.0 feet 2-4-15 Time: 0929

Depth to Water: - 7.69 feet

				Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	43.31	feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1124		7.34	21.5	clear

Comments:

Sample Collection Time - 1125

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-119

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm

Well Information:

Total Well Depth: 47.0 feet 2-4-15 Time: 0933

Depth to Water: - 6.01 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	40.99 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1127		7.36	20.9	Clear

Comments:

Sample Collection Time - 1128

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-120

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ⊗ Disposable Bailer O Electric pump O

Weather Conditions: Warm

Well Information:

Total Well Depth: 47.0 feet 2-4-15 Time: 0936

Depth to Water: - 4.19 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	42.81 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1135		7.28	20.4	Clear

Comments:

Sample Collection Time - 11:36

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-121

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Warm

Well Information:

Total Well Depth: 38.5 feet Time: 0938

Depth to Water: - 4.11 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	34.39 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1139		7.30	20.6	Clear

Comments:

Sample Collection Time - 1140

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-122

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-13-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, clear, sunny

Well Information:

Total Well Depth: 37.9 feet Time: 0920

Depth to Water: 31.11 feet

Height of Water Column (L): 6.79 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft

Well Volume (WV) = 1.08 gal. * Purge Factor 3 = Purge Volume 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0923	----	----	----	----	
0925	1 gal	7.29	8.81 mS/cm	22.5 °C	clear w/some debris
0926	2 gal	7.27	8.91 mS/cm	23.5 °C	clear
0927	3 gal	7.22	8.92 mS/cm	23.9 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 0928 Time Finished: 0928

Analyses: CLO4 / pH / TDS / CR

Bottles: 1 BTL / 1 BTL / 1 BTL

TOTAL BOTTLES: 3

Comments: Screen 22.5 - 37.5

Water Sampling Field Log

Well No.: PC-123

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Cool, overcast

Well Information:

Total Well Depth: 34.70 feet Time: 0412

Depth to Water: 22.63 feet

Height of Water Column (L): 12.07 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 1.93 gal. * x 3 legal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0416	-----	-----	-----	-----	
0419	2 gal	7.50	7.58 mS/cm	19.4°C	clear
0421	4 gal	7.43	7.83 mS/cm	21.5°C	clear
0424	6 gal	7.66	7.84 mS/cm	21.2°C	clear

Sample Appearance: clear

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of Screen - 20'

Water Sampling Field Log

Well No.: PC-124

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, overcast

Well Information:

Total Well Depth: 34.60 feet Time: 0634

Depth to Water: 25.04 feet

Height of Water Column (L): 9.56 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 1.52 gal. * x 3 5 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0638	---	---	---	---	
0643	2 gal	7.47	8.68 mS/cm	17.8 °C	cloudy
0645	4 gal	7.35	9.00 mS/cm	20.6 °C	slightly cloudy
0646	5 gal	7.35	9.62 mS/cm	20.7 °C	very slightly cloudy

Sample Appearance: clear

Sample Collection - Time Start: 0647 Time Finished: 0647

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen -20.3

Water Sampling Field Log

Well No.: PC-125

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clearing

Well Information:

Total Well Depth: 33.50 feet Time: 0652

Depth to Water: 23.04 feet

Height of Water Column (L): 10.46 feet Well Diameter (circle one): 2-in. * 0.16 gal/ft, 4-in. * 0.65 gal/ft, 6-in * 1.47 gal/ft = Well Volume (WV) 1.67 gal. * x 3 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0654	---	---	---	---	
0656	2 gal	7.21	7.81 mS/cm	17.7 °C	cloudy
0658	4 gal	7.20	8.25 mS/cm	18.8 °C	slightly cloudy
0659	5 gal	7.24	8.36 mS/cm	19.6 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0701 Time Finished: 0701

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 18.7

Water Sampling Field Log

Well No.: PC-126

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clearing

Well Information:

Total Well Depth: 34.30 feet Time: 0706

Depth to Water: 21.81 feet

Height of Water Column (L): 12.49 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 1.99 gal. * x 3 6 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0707	----	----	----	----	
0709	2 gal	7.40	9.39 mS/cm	14.8 °C	cloudy
0711	4 gal	7.10	1001 mS/cm	18.1 °C	slightly cloudy
0713	6 gal	7.34	9.89 mS/cm	18.8 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0715 Time Finished: 0715

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen-19.5

Water Sampling Field Log

Well No.: PC-127

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 34.70 feet Time: 0722

Depth to Water: 18.41 feet

Height of Water Column (L): 16.29 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft; 4-in. * 0.65 gal/ft; 6-in * 1.47 gal/ft = 2.60 gal. * x 3 = 8 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0723	—	—	—	—	
0726	3 gal	7.49	7.17 mS/cm	19.7 °C	slightly cloudy
0729	6 gal	7.52	7.29 mS/cm	21.1 °C	clear
0731	8 gal	7.54	7.31 mS/cm	21.6 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0732 Time Finished: 0732

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 15

Water Sampling Field Log

Well No.: PC-128

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, overcast

Well Information:

Total Well Depth: 34.70 feet Time: 0435

Depth to Water: 18.55 feet

Height of Water Column (L): 16.15 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 2.58 gal. * x 3 Well Volume (WV) 8 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0436	----	----	----	----	
0439	3 gal	7.45	6.79 mS/cm	20.3 °C	clear
0442	6 gal	7.47	7.05 mS/cm	21.9 °C	clear
0444	8 gal	7.50	7.12 mS/cm	22.0 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0446 Time Finished: 0446

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 14.8

Water Sampling Field Log

Well No.: PC-129

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, overcast

Well Information:

Total Well Depth: 37.70 feet Time: 0453

Depth to Water: 18.51 feet

Height of Water Column (L): 19.19 feet

Well Diameter (circle one): 2-in. (0.16 gal/ft) 4-in. (* 0.65 gal/ft) 6-in (* 1.47 gal/ft) = 3.07 gal. * x 3 Well Volume (WV) 9 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0454	----	----	----	----	
0457	3 gal	7.42	5.81 mS/cm	18.0 °C	slightly cloudy
0500	6 gal	7.31	7.24 mS/cm	20.9 °C	slightly cloudy
0503	9 gal	7.40	7.57 mS/cm	20.4 °C	

Sample Appearance: slightly cloudy

Sample Collection - Time Start: 0504 Time Finished: 0504

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-130

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, overcast

Well Information:

Total Well Depth: 49.70 feet Time: 0513

Depth to Water: 19.26 feet

Height of Water Column (L): 30.44 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = 4.87 gal. * x 3 Well Volume (WV) 15 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0514	-----	-----	-----	-----	
0519	5 gal	7.55	8.15 mS/cm	19.9 °C	clear
0524	10 gal	7.43	8.20 mS/cm	20.1 °C	clear
0529	15 gal	7.51	8.24 mS/cm	20.0 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0531 Time Finished: 0531

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 14.8

Water Sampling Field Log

Well No.: PC-131

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: COOL, overcast

Well Information:

Total Well Depth: 39.40 feet Time: 0538

Depth to Water: 11.24 feet

Height of Water Column (L): 28.16 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 4.50 gal. * x 3 Well Volume (WV) 14 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0540	---	---	---	---	
0545	5 gal	7.24	1334 mS/cm	22.4 °C	Clear
0550	10 gal	7.48	1352 mS/cm	21.8 °C	Clear
0554	14 gal	7.32	1366 mS/cm	21.5 °C	Clear

Sample Appearance: clear

Sample Collection - Time Start: 0556 Time Finished: 0556

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 9.8

Water Sampling Field Log

Well No.: PC-132

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-24-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, overcast

Well Information:

Total Well Depth: 39.70 feet Time: 0604

Depth to Water: 9.87 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 29.83 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 4.77 gal. * x 3 = 14 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0605	-----	-----	-----	-----	
0612	5 gal	7.28	13.32 mS/cm	20.6°C	clear
0617	10 gal	7.25	13.55 mS/cm	20.8°C	Clear
0623	14 gal	7.32	13.37 mS/cm	21.3°C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0625 Time Finished: 0625

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 9.8'

Water Sampling Field Log

Well No.: PC-133

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm, clear

Well Information:

Total Well Depth: 40.20 feet Time: 0908

Depth to Water: - 6.81 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	33.39 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1133		7.38	10.6	clear

Comments:

Sample Collection Time - 1134

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-135A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Cool, clear, sunny

Well Information:

Total Well Depth: 50.8 feet Time: 0815

Depth to Water: 29.34 feet

Height of Water Column (L): 21.46 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = Well Volume (WV) 3.43 gal. * x 3 10

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0816	----	----	----	----	
0818	4 gal	7.13	13.41 mS/cm	24.6 °C	clear
0820	7 gal	7.25	13.44 mS/cm	25.1 °C	clear
0822	10 gal	7.12	13.38 mS/cm	24.9 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0823 Time Finished: 0823

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 30.7

Water Sampling Field Log

Well No.: PC-136

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-25-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, sunny

Well Information:

Total Well Depth: 403 feet Time: 0742

Depth to Water: 32.04 feet

Height of Water Column (L): 8.26 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) | 4-in. * 0.65 gal/ft | 6-in * 1.47 gal/ft

= 1.32 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0750	-----	-----	-----	-----	
0752	2 gal	7.21	7.35 mS/cm	24.3 °C	cloudy
0754	3 gal	7.33	7.29 mS/cm	25.2 °C	slightly cloudy
0756	4 gal	7.29	7.30 mS/cm	24.6 °C	slightly cloudy / yellow

Sample Appearance: slightly cloudy / w/ yellow color

Sample Collection - Time Start: 0800 Time Finished: 0800

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 21.0

Water Sampling Field Log

Well No.: PC-174

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-12-14

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 39.7 feet Time: 1014

Depth to Water: 30.52 feet

Height of Water Column (L): 9.18 feet * 0.16 gal/ft (2-in.) / * 0.65 gal/ft (4-in.) / * 1.47 gal/ft (6-in) = 1.46 gal. * 3 = 4 gal

Well Volume (WV) | Purge Factor | Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1016	----	----	----	----	
1018	2 gal	7.27	9.70 mS/cm	22.7 °C	clear
1019	3 gal	7.13	9.71 mS/cm	23.9 °C	clear
1020	4 gal	7.20	9.72 mS/cm	24.0 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1021 Time Finished: 1021

Analyses: CLO4 / pH / TDS / CR

Bottles: 1 BTL / 1 BTL / 1 BTL

TOTAL BOTTLES: 3

Comments: 29.7' To Top of screen

Water Sampling Field Log

Well No.: PC-148

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 50.2 feet Time: 0620

Depth to Water: 27.76 feet

Height of Water Column (L): 22.44 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft (Well Diameter (circle one): 2-in. 4-in. 6-in) = 32.98 gal. * x 3 Well Volume (WV) 99 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0624	----	----	----	----	
0636	10 gal	7.39	8.93 mS/cm	22.7 °C	clear
0642	20 gal	7.46	8.65 mS/cm	22.9 °C	clear
0649	30 gal	7.53	8.74 mS/cm	22.1 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0651 Time Finished: 0651

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Top of screen - 24.5

TOTAL BOTTLES: 3

Comments: historic - well slow to recharge - purge 30 gal before sample collected

Water Sampling Field Log

Well No.: PC-149

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-27-15

Sampling Method: Electric Pump ⊗ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 50.0 feet Time: 0700

Depth to Water: 29.52 feet

Height of Water Column (L): 20.48 feet * 0.16 gal/ft * 0.65 gal/ft (1.47 gal/ft) = 30.10 gal. * x 3 90 gal

Well Diameter (circle one): 2-in. 4-in. 6-in

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0702	----	----	----	----	
0713	15 gal	7.63	4.89 mS/cm	21.0 °C	clear
0724	30 gal	7.61	5.00 mS/cm	23.1 °C	clear
0735	45 gal	7.47	5.07 mS/cm	23.4 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0736 Time Finished: 0736

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Top of screen 24.5

TOTAL BOTTLES: 3

Comments: historic - well slow to recharge
sample collected after 45 gallons purged

Water Sampling Field Log

Well No.: PC-150

Project No.: Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 2-2-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm

Well Information:

2-3-15

Total Well Depth: 45.7 feet Time: 1101

Depth to Water: - 32.35 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	13.35 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1237		7.44	25.8°C	clear

Comments:

Sample Collection Time - 1238

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: I-AA

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast, damp

Well Information:

Total Well Depth: 46.0 feet Time: 1042

Depth to Water: 44.71 feet

Height of Water Column (L): 1.29 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
1043	4.89 mS/cm	21.1 °C	7.34	clear

Sample Appearance: clear

Sample Collection - Time Start: 1044 Time Finished: 1044

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AB

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Cool, overcast, damp

Well Information:

Total Well Depth: 52.0 feet Time: 1034

Depth to Water: 33.29 feet

Height of Water Column (L): 18.71 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
1035	5.53 mS/cm	19.7 °C	7.68	clear

Sample Appearance: clear

Sample Collection - Time Start: 1036 Time Finished: 1036

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments: turned pump on to sample

Water Sampling Field Log

Well No.: I- AC

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny, some clouds

Well Information:

Total Well Depth: 50.0 feet Time: 0915

Depth to Water: 28.91 feet

Height of Water Column (L): 21.09 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0916	16.13mS/cm	23.1°c	6.99	clear

Sample Appearance: clear

Sample Collection - Time Start: 0917 Time Finished: 0917

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments: turned pump on to sample

Water Sampling Field Log

Well No.: I- AD

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny, some clouds

Well Information:

Total Well Depth: 500 feet Time: 0908

Depth to Water: 29.47 feet

Height of Water Column (L): 2053 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0909	7.08 mS/cm	24.7 °C	7.20	Slight yellow tint

Sample Appearance: Slight yellow tint

Sample Collection - Time Start: 0910 Time Finished: 0910

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments: Turned pump on to sample

Water Sampling Field Log

Well No.: I- AR

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast, damp

Well Information:

Total Well Depth: 45.0 feet Time: 1051

Depth to Water: 43.12 feet

Height of Water Column (L): 1.88 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
1052	8.21 mS/cm	22.3 °C	7.25	clear

Sample Appearance: Clear

Sample Collection - Time Start: 1053 Time Finished: 1053

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-B

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23 15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast, damp

Well Information:

Total Well Depth: 45.70 feet Time: 1027

Depth to Water: 43.66 feet

Height of Water Column (L): 2.04 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
1028	5.98 mS/cm	21.2 °C	7.16	clear

Sample Appearance: clear

Sample Collection - Time Start: 1029 Time Finished: 1029

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-C

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast, damp

Well Information:

Total Well Depth: 43.80 feet Time: 0943

Depth to Water: 35.71 feet

Height of Water Column (L): 8.09 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0944	857 mS/cm	22.4 °C	7.07	very light yellow

Sample Appearance: Very light yellow

Sample Collection - Time Start: 0945 Time Finished: 0945

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Dup EC 855 EC 12.5 temp

Water Sampling Field Log

Well No.: I- D

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast, damp

Well Information:

Total Well Depth: 47.70 feet Time: 0933

Depth to Water: 33.64 feet

Height of Water Column (L): 14.06 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0934	8.63 mS/cm	21.5 °C	7.54	Very light yellow

Sample Appearance: Very light yellow

Sample Collection - Time Start: 0935 Time Finished: 0935

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- E

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: COOL, overcast

Well Information:

Total Well Depth: 46.70 feet Time: 0919

Depth to Water: 44.43 feet

Height of Water Column (L): 2.27 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0920	9.68 mS/cm	22.3 °C	7.03	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 0921 Time Finished: 0921

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- F

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cold overcast

Well Information:

Total Well Depth: 45.80 feet Time: 0900

Depth to Water: 38.96 feet

Height of Water Column (L): 6.84 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0901	11.97 mS/cm	21.5 °C	6.87	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0902 Time Finished: 0902

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- G

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cold, overcast

Well Information:

Total Well Depth: 42.60 feet Time: 0838

Depth to Water: 41.13 feet

Height of Water Column (L): 1.47 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0839	11.89 mS/cm	22.1 °C	7.0	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0840 Time Finished: 0840

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- H

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cold, overcast

Well Information:

Total Well Depth: 46.50 feet Time: 0814

Depth to Water: 44.09 feet

Height of Water Column (L): 2.41 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0815	13.95 mS/cm	21.9 °C	6.94	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0816 Time Finished: 0816

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- I

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, breeze

Well Information:

Total Well Depth: 44.20 feet Time: 1130

Depth to Water: 24.24 feet

Height of Water Column (L): 19.96 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
1131	9.35 mS/cm	25.3 °C	7.08	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1132 Time Finished: 1132

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- J

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 2-27-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Cool, overcast

Well Information:

Total Well Depth: 44.50 feet Time: 0443

Depth to Water: 42.26 feet

Height of Water Column (L): 2.24 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0444	7.14 mS/cm	22.4 °C	7.01	Very slight yellow

Sample Appearance: Very slightly yellow

Sample Collection - Time Start: 0445 Time Finished: 0445

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-K

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, breeze

Well Information:

Total Well Depth: 40.60 feet Time: 0922

Depth to Water: 36.12 feet

Height of Water Column (L): 3.48 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0923	7.39 mS/cm	24.4 °C	7.18	slight yellow tint

Sample Appearance: slight yellow tint

Sample Collection - Time Start: 0924 Time Finished: 0924

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- L

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast

Well Information:

Total Well Depth: 43.40 feet Time: 0959

Depth to Water: 39.97 feet

Height of Water Column (L): 3.43 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
1000	7.52 ~~5.72~~ mS/cm	22.4 °C	6.95	clear

Sample Appearance: clear

Sample Collection - Time Start: 1001 Time Finished: 1001

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-M

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast, damp

Well Information:

Total Well Depth: 43.70 feet Time: 0925

Depth to Water: 35.34 feet

Height of Water Column (L): 8.36 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0926	10.04 mS/cm	21.6 °C	7.28	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 0927 Time Finished: 0927

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-N

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast

Well Information:

Total Well Depth: 41.70 feet Time: 0911

Depth to Water: 33.01 feet

Height of Water Column (L): 8.69 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0912	10.14 mS/cm	21.7 °C	7.13	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0913 Time Finished: 0913

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- O

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cold, drizzling, overcast

Well Information:

Total Well Depth: 43.80 feet Time: 0948

Depth to Water: 37.77 feet

Height of Water Column (L): 5.03 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0950	10.36 mS/m	21.1°C	7.12	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0951 Time Finished: 0951

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- P

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cold, overcast, drizzling

Well Information:

Total Well Depth: 47.80 feet Time: 0808

Depth to Water: 41.07 feet

Height of Water Column (L): 6.73 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0809	11.72 mS/cm	20.6°C	6.96	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0810 Time Finished: 0810

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- Q

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cold, overcast, slight breeze

Well Information:

Total Well Depth: 43.80 feet Time: 0845

Depth to Water: 40.0 feet

Height of Water Column (L): 3.80 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0846	14.21 mS/cm	20.2°c	6.75	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0847 Time Finished: 0847

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast

Well Information:

Total Well Depth: 45.30 feet Time: 1015

Depth to Water: 42.13 feet

Height of Water Column (L): 3.17 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
1016	7.63 mS/cm	21.7 °C	7.14	clear

Sample Appearance: clear

Sample Collection - Time Start: 1017 Time Finished: 1017

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- 8

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast

Well Information:

Total Well Depth: 47.70 feet Time: 0951

Depth to Water: 28.82 feet

Height of Water Column (L): 18.88 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0952	7.57 mS/cm	21.2 °C	7.45	Very light yellow

Sample Appearance: Very light yellow

Sample Collection - Time Start: 0953 Time Finished: 0953

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-T

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cold, overcast

Well Information:

Total Well Depth: 47.80 feet Time: 0822

Depth to Water: 43.17 feet

Height of Water Column (L): 4.63 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0823	14.68 mS/cm	22.8 °C	6.97	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0824 Time Finished: 0824

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- U

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cold, overcast

Well Information:

Total Well Depth: 47.60 feet Time: 0831

Depth to Water: 44.23 feet

Height of Water Column (L): 3.37 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0832	1.43 mS/cm	23.7 °C	6.47	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0833 Time Finished: 0833

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-✓

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, breeze

Well Information:

Total Well Depth: 47.70 feet Time: 1138

Depth to Water: 32.95 feet

Height of Water Column (L): 14.75 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
1139	8.97 mS/cm	25.4 °C	6.97	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1140 Time Finished: 1140

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: 1- W

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Overcast, cold

Well Information:

Total Well Depth: 50.0 feet Time: 0757

Depth to Water: 42.89 feet

Height of Water Column (L): 7.11 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0758	1033 mS/cm	24 °C	6.93	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0759 Time Finished: 0759

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- X

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cold, overcast

Well Information:

Total Well Depth: 50.0 feet Time: 0906

Depth to Water: 39.58 feet

Height of Water Column (L): 10.42 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0907	11.15 mS/cm	22.3°C	6.70	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0908 Time Finished: 0908

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- Y

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-23-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, overcast, damp

Well Information:

Total Well Depth: 50.50 feet Time: 1006

Depth to Water: 38.62 feet

Height of Water Column (L): 11.88 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
1007	8.14 mS/cm	20.6°C	7.28	clear.

Sample Appearance: Clear

Sample Collection - Time Start: 1008 Time Finished: 1008

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- 2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 2-26-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, breeze

Well Information:

Total Well Depth: 37.00 feet Time: 1125

Depth to Water: 30.03 feet

Height of Water Column (L): 6.97 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
1126	7.67 mS/cm	25.6 °C	7.31	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1127 Time Finished: 1127

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

ENVIROGEN
TECHNOLOGIES

Second Quarter Well Monitoring

Nevada Environmental Response Trust
Henderson, Nevada

May 4, 2015 thru June 5, 2015

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ENVIROGEN
TECHNOLOGIES

Letter of Transmittal

Attention: Andrew Harley, PhD
Principal Geochemist
Mine Water Management Lead
Tetra Tech
350 Indiana Street Suite 500
Golden, Co 80401

Date: July 20, 2015

Project:
2015 2nd Quarter Groundwater Monitoring

Enclosed:
1 copy of Field Data Letter Report

Remarks:
Andrew,
The enclosed Quarterly Groundwater Monitoring Report with supporting documents is provided for your records.

Signature: Wendy Prescott

Wendy Prescott

Envirogen Technologies
Two Kingwood Place
700 Rockmead Drive Suite 105
Kingwood, TX 77339

Quarterly Groundwater Monitoring Report

Nevada Environmental Response Trust
(Former Tronox LLC Site)
Henderson, Nevada

Responsible Certified Environmental Manager (CEM) for this project

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.

JEFF LAMBETH

Jeff Lambeth
Certified Environmental Manager
Envirogen Technologies
CEM Certificate Number: 2391
CEM Expiration Date: March 24, 2017

The following individuals provided input to this document:

Wendy Prescott, Project Manager, Envirogen Technologies

Michele Brown, Lab Analyst 1, Sampling Tech, Envirogen Technologies

Tobin Walker, OM Operator, Envirogen Technologies

Nathan Eames, OM Operator, Envirogen Technologies

Janel Rivera, Sampling Tech, Aerotek

ENVIROGEN
TECHNOLOGIES

Field Data Letter Report

1 INTRODUCTION

Nevada Environmental Response Trust (NERT) contracts with Envirogen Technologies to conduct groundwater sampling and analysis at their Perchlorate Removal Facility, located at 510 Fourth Street, in Henderson, Nevada. The work described herein represents the second quarter groundwater sampling event for 2015. The work was conducted in accordance with the Sampling and Analysis Work plan, submitted to Tronox January 9, 2004.

Envirogen has three staff members trained to assist the quarterly well monitoring events. The Envirogen monitoring team meets once prior to the sampling event to discuss all issues associated with this project, sampling and laboratory equipment needs, time tables and well site schedules. Bottle orders and bottles received are cross checked to ensure that all wells and analysis are represented.

1.1 SCOPE OF SAMPLING EVENT

This sampling effort included the following tasks:

- Soundings of the pumping water levels in 27 interceptor wells.
- Soundings of the water levels in 3 dormant interceptor wells
- Collection of groundwater samples from 30 interceptor wells.
- Soundings of water levels in 196 monitoring wells.

- Collection of groundwater samples from 164 monitoring wells.
- Collection of groundwater samples from 18 pumping wells.
- Collection of groundwater water samples from 2 PC wells not online.
- Soundings of water levels in 6 backup (Buddy) wells.
- Soundings of water levels in 18 pumping wells.

Analysis of samples collected from the interceptor and monitoring wells, range from Perchlorate (CLO4), Total Chromium (Cr), Hexavalent Chromium (CRVI), pH, Specific Conductance (EC), Total Dissolved Solids (TDS), and NPDES list for well M-10, (Up Well). CR, MN, FE, B, Ammonia, TIN, Nitrate-Nitrite as N, and Chloide. RCRA well analysis also included Conductance, TOC, TOX and Total Phenols.

Groundwater samples were shipped daily to TestAmerica (TA) for analysis, in Irvine, California. TA is certified by the State of Nevada.
The scope of this assignment also included compiling the water level and analytical data presented in this report. Data are presented in tabular form.

2 FIELD ACTIVITIES

Envirogen conducted the field activities associated with this quarterly sampling event between Monday May 4th and Tuesday July 14th, 2015. Activities included the sounding of "pumping water" levels in the interceptor wells, sounding the "static water" level in the monitoring wells and sampling of both the interceptor and monitoring wells. Prior to each quarter, an inventory list was issued to Environ for review and comment. Sampling was conducted according to their specifications.

Wendy Prescott and Michele Brown were responsible for sample collection and recording all pertinent data on sample bottles. Michele Brown supervised the groundwater sampling activities. She is responsible for executing all work elements related to the groundwater sampling program,

including laboratory equipment maintenances and calibration, fieldwork, documenting field activities, maintaining field notes and photographs (when applicable), and providing the Operations Manager with information concerning implementation of the sampling plan.

Envirogen maintained records of daily events and pertinent sampling data of each well on a field log sheet and addendum data in a bound log book. Log sheet entries included personnel onsite, weather conditions, water levels, activities conducted, sampling times, pH, EC, temperature and other significant field information.

2.1 Groundwater Level Soundings

Envirogen sounded pumping water levels in 27 interceptor wells. The static water readings were taken in Interceptor wells I-AB, I-AD and I-AC. In addition to the interceptor wells, static water levels in 194 monitoring wells were taken. There were thirty-two (30) wells where only static water levels were taken. The following are the 30 wells:

ART-1A	ART-2A	ART-3	ART-4		ART-8A	M-55	M-56	M-58	M-60	M-78
M-93	M-96	M-166	M-167	M-168	M-169	M-170	M-172	M-173	M-174	M-175
M-176	M-177	PC-76	PC-78	PC-80	PC-81	PC-83		PC-87	PC-88	

The water levels were sounded to the nearest 0.01 foot using an electronic well sounder.

2.2 Equipment Cleaning Procedures

During the collection of water samples, throughout the day, the equipment was washed with soapy water and rinsed with 3 to 4 gallons of de-ionized water after use at each well. The rinse water was collected in a polyethylene container and transported to GW-11 for treatment.

3.0 GROUNDWATER SAMPLING

3.1 Sampling Locations

The following presents the identification of wells sampled.

3.1.1 Interceptor Wells

I-AR	I-B	I-C	I-D	I-E	I-F	I-G	I-H	I-I	I-J	I-K
I-L	I-M	I-N	I-O	I-P	I-Q	I-R	I-S	I-T	I-U	I-V
I-W	I-Y	I-Z	I-AA	I-AB	I-AC	I-AD	I-X			

3.1.2 Pumping Wells

ART-1	ART-2	ART-3A	ART-4A	ART-7B	ART-8	ART-9	PC-99R2/R3	PC-115R	PC-116R	PC-117
PC-118	PC-119	PC-133	PC-150							

3.1.3 **Monitoring Wells**

AA-01	ARP-1	ARP-2A	ARP-3A	ARP-4A	ARP-5A	ARP-6B	ARP-7	M-6A	H-28A	HM-2
H-58A	M-7B	HMW-13	HMW-14	HMW-15	HMW-16	M-2A	M-5A	M-99	PC-74	M-10
M-11	M-12A	M-13	M-14A	M-19	M-21	M-22A	M-23	M-25	M-31A	M-35
M-37	M-38	M-44	M-48A	M-52	M-57A	M-64	M-65	M-66	M-67	M-68
M-69	M-70	M-71	M-72	M-73	M-74	M-75	M-76	M-77	M-79	M-80
M-81A	M-83	M-92	M-95	M-97	ARP-6	M-115	M-123	M-124	M-125	M-126
M-128	M-131	M-132	M-133	M-134	M-135	M-136	M-137	M-138	M-139	MC-6
M-141	M-142	M-144	M-145	M-146	M-147	M-148A	MC-3	MC-7	MC-29	MC-45
MC-50	MC-51	MC-53	MC-65	MC-69	MC-93	MC-97	MW-16	MW-K4	MW-K5	PC-2
PC-4	PC-18	PC-21A	PC-24	PC-28	PC-31	PC-37	PC-40	PC-50	PC-53	PC-55
PC-56	PC-58	PC-59	PC-60	PC-62	PC-64	PC-65	PC-66	PC-67	PC-68	PC-71
PC-72	PC-73	ARP-7A	PC-77	PC-79	PC-82	PC-86	PC-90	PC-91	PC-92	PC-94
PC-96	PC-97	PC-98R	PC-101R	PC-103	PC-107	PC-108	PC-110	PC-122	PC-123	PC-124
PC-125	PC-126	PC-127	PC-128	PC-129	PC-130	PC-131	PC-132	PC-134A	PC-135A	PC-136
PC-137	PC-142	PC-143	PC-144	PC-145	PC-148	PC-149	PC-54	M-32	M-33	

4.0 SAMPLING TECHNIQUES

4.1 Interceptor Wells

All interceptor wells were sampled using dedicated sampling ports. At the beginning of sampling each well or line, personnel wore a new pair of clean nitrile or latex gloves. The sampling port was opened to drain any stagnant water from piping and valves. This water is captured and containerized. All captured water is off-loaded at GW-11 for onsite treatment. Following the purging of the sample port, a "water quality" sample was collected for analysis of Perchlorate, Total Chromium, pH, and TDS. Envirogen also recorded the "*field*" temperature, pH, and conductivity as well as the pumping water level. The "*field*" parameters are provided in Table 1.

4.2 Monitoring Wells

Monitoring wells were purged before sampling to assure that each sample was collected from fresh formation water.

One hundred fifty six (154) wells were purged and sampled, using the 12 volt submersible pump. One (1) well M-6A was sampled with a dedicated bailer. Nine (9) wells were sampled using a non-dedicated disposable bailer, ART-6, H-28A, HM-2, M-7B, M-77, M-99, PC-74 and ART-7A, were not purged due to location and/or water column level but samples were collected. Hand bailing was done as a result of only needing to purge less than 3 gallons of water, if there was an insufficient amount of water in the well casing to use a pump or due to the location of the well. M-32 and M-33 were purged and sampled using the disposable bailers.

Samples for both the interceptor and monitoring wells were collected in appropriate containers supplied by TestAmerica and analyzed for the specific required analysis of the well. The bottles were filled with minimal aeration, using laminar flow.

The samples were labeled, packaged, stored, and transported using the procedures outlined in the work plan for well samples. .

4.3 Problems Encountered

ART-7 – well capped no data or sample collected

Not found - BEC-1, HSW-1, DM-4, DM-5

H-11 – cap on outside casing stuck was not able to pry off or remove

H-48 – Outside casing lid cross threaded not able to remove

HMW-13 – well PVC casing broken ~3' from top

No Access – L-635, L-637

M-29 – not sampled due to safety

M-36 – destroyed

M-93 – bailer stuck in well pump well not decent

M-140 – No hole in well casing lid to insert probe to collect DTW reading

M-145 – Sample was black, well located flush with street on east side of unit 6 in Tronox. Well full of Manganese

PC-94 – No cast lid

PC-95 – P&A

MC-3, MC-29, PC-40 samples for EC readings were diluted with Deionized water after pH & Temp readings were collected. 10 ml sample 10ml DI

M-32 and M-33 were sampled at a much later date as data was not readily available.

4.4 Equipment Cleaning Procedures

The deionized water is changed each morning so the rinsing water is fresh. Non-dedicated sampling equipment has been replaced by disposable bailers. Conductivity/pH meter probe was thoroughly rinsed with de-ionized water after each sample was analyzed. Pumping equipment was purged with deionized water to flush and clean before leaving to sample at the next location. Dedicated tubing was installed in each well to ensure no cross contamination from other wells occurs.

5.0 QUALITY CONTROL

Quality control (QC) procedures include collection and analysis of QC duplicate samples, equipment and field blanks. The analytical laboratory is also required to meet specific QA/QC requirements for surrogate recovery, MS/MSD recovery and RPDs, and LCS recoveries. Duplicate SC readings were conducted at one well each day to insure the accuracy of the Hanna field probe.

5.1 QC Duplicate Samples

QC duplicate samples were collected during the sampling event to evaluate the precision and accuracy of analytical data. The QC duplicates were collected, packaged, and transported in the same manner as the primary sample, but assigned a different identification number.
Seven (7) duplicates were collected from the wells, representing at least 5 percent of the samples collected. The duplicate samples were collected from the following wells: M-66, PC-144, PC-148, M-25, M-44, M-124 and M-10. They were analyzed for the same parameters as the primary samples. TestAmerica was not informed of the identity of these "blind" samples.

5.2 Equipment Blanks

Seventeen (17) equipment blanks were taken this quarter. Four of the equipment blanks, for CLO4, TDS, CR, CRVI and pH analysis, were collected on May 5th, 6th, 7th, 8th, 14th, 19th, 20th, 21st, 22nd, 26th, 27th, 28th, 29th, June 2nd, 3rd and the 5th, 2015. One equipment blank for CLO4 analysis only was collected on 5/21/15. This is done to evaluate the adequacy of cleaning procedures used by field personnel during this sampling event.

5.3 Field Blanks

Two (2) field blanks were collected this quarter. Analysis included CLO4, TDS, CR, CRVI and pH. These blanks were collected on May 8th and 27th, 2015.

6.0 ANALYTICAL PROCEDURES

The following designates the parameter, analytical method and method reporting limits for groundwater. Some of the following analysis may not have been performed for this reporting period.

PARAMETER	ANALYTICAL METHOD	MRL
CLO4	Method 314.0	4.0 µg/L
Total Chromium	Method 200.7	0.01 mg/L
Hexavalent Chromium (CRVI)	Method 218.6 ORGFM	0.005 mg/L,
pH	Method 150.1	.01 units
TDS	Method 2540C Calcd	10 mg/L

PARAMETER	ANALYTICAL METHOD	MRL
Chloride	Method 300 ORGFM 28D	80.0 mg/L
Iron (ICAP)	Method 200.7	0.005 mg/L
Manganese (ICAP/)	Method 200.7	100 µg/L
Sodium (ICAP)	Method 200.7	5 mg/L
Phenols, Total	Method 420.1, 420	.010 mg/L
Sulfate	Method 300 ORGFM 28D	80 mg/L
Total Organic Carbon, TOC	Method 5310C	unknown
Total Organic Halogen, TOX	Method 9020B - 9020	unknown
Boron	Method 200.7	.10 mg/L
Conductance	Method 2510B - 2510	2 µohms/cm
Ammonia Nitrogen	Method 300 ORGFM	0.050 mg/L
Nitrate Nitrogen	Method 300 ORGFM	2.0 mg/L
Copper	Method 300 ORGFM	2.0 µg/L
Chlorate	Method 300.1B 28D	

6.1 Field Equipment Calibration

Prior to the start of each day's events, field laboratory equipment was calibrated. A Hanna HI 98130 water proof pH, EC/TDS and temperature field probe was calibrated and measurements recorded on daily laboratory calibration maintenance forms, which have been provided. Each day a duplicate EC reading was taken at random wells to ensure the calibration of the meter was holding. The duplicate EC readings were taken from wells I-L, PC-127, PC-110, M-131, PC-60, ARP-5A, HMW-16, M-38, M-97, M-95, M-69, PC-31, I-K, M-31A, M148-A, M-11.

SUMMARY RESULTS

7.1 Groundwater Level Soundings

A summary of water level soundings collected for the interceptor and monitoring wells are presented in Table 1.

Pumping water level in interceptors wells. (Measured in feet from below the top of casing.)

LOW	HIGH
44.07 (I-E)	23.92 (I-I)

Static water level monitoring wells. (Measured in feet from below the top of casing.)

LOW	HIGH
68.49 (H-11)	4.64 (PC-97)

7.2 Summary of Field Activities

7.2.1 Interceptor Wells

Thirty (30) interceptor wells were sampled for analytical sets including CLO4, Cr, TDS and pH.

7.2.2 Monitoring Wells

One hundred sixty five (165) monitoring wells were sampled for sets that may have included: pH, TDS, CLO4, CR and CRVI.

7.2.3 QC Duplicate Samples (Measured for the same analyses as the primary samples.)

I-L, PC-132, PC-142, M-44, M-57A, M-35, M-12A and M-144

7.2.4 Equipment Blanks

Seventeen (17) equipment blanks were analyzed for CLO4, Total Cr., Hex Cr., pH, and TDS. One equipment Blank was analyzed for CLO4 only.

Weather	Hot/Sunny/Partly cloudy/Clear/Breezy
Total # of wells visited	286
Total water samples collected	279
Total Wells measured DTW only	30
Total Duplicate Samples (5%)	6
Total Equipment Blanks	17
Total Wells hand bailed	10
Total Wells considered DRY	7
Total Wells not accessible	2
Total Wells damaged	4
Total wells not found	4
Total wells subcontracted (Stewart Environmental)	33

ENVIROGEN
TECHNOLOGIES

Table of Well Gauging Data

This Section Contains:

- Field Sign - In Log
- Daily Maintenance & Calibration Log
- Table 1 Well Inventory
- Chain-of-Custody & Bottle Order Forms

ENVIROGEN QUARTERLY SAMPLING SIGN IN SHEET

DATE	TIME	COMPANY	SIGNATURE	PRINT NAME
5-4-15	0500	Envirogen	Michele Brown	Michele Brown
5-4-15	0645	Envirogen	Wendy Prescott	WENDY PRESCOTT
5-5-15	0300	Envirogen	Michele Brown	Michele Brown
5-5-15	0320	Envirogen	[illegible]	Nathan Evans
5-5-15	1030	TetraTech	[illegible]	Becki Dunn
5-6-15	0430	Envirogen	Michele Brown	Michele Brown
5-6-15	1001	TetraTech	Kyle S. Hansen	Kyle S. Hansen
5-6-15	430	ENVIROGEN	Wendy Prescott	WENDY PRESCOTT
5-7-15	0500	Envirogen	Michele Brown	Michele Brown
5-7-15	500	ENVIROGEN	Wendy Prescott	WENDY PRESCOTT
5-7-15	1200	TetraTech	[illegible]	Becki Dunn
5-8-15	0530	Envirogen	Michele Brown	Michele Brown
5-8-15	530	ENVIROGEN	Wendy Prescott	WENDY PRESCOTT
5-14-15	1045	ETI	Michele Brown	Michele Brown
5-14-15	[illegible]	ETI	[illegible]	Tobin Walker
5-19-15	630	ETI	Michele Brown	Michele Brown
5-19-15	6:30	ETI	Wendy Prescott	WENDY PRESCOTT
5-20-15	600	ETI	Michele Brown	Michele Brown
5-20-15	6:00	ETI	Wendy Prescott	WENDY PRESCOTT
5-21-15	600	ETI	Wendy Prescott	WENDY PRESCOTT
5-21-15	600	ETI	Michele Brown	Michele Brown
5-22-15	0600	ETI	Michele Brown	Michele Brown
5-26-15		ETI	Wendy Prescott	WENDY PRESCOTT
5-26-15	0600	ETI	Michele Brown	Michele Brown

ENVIROGEN QUARTERLY SAMPLING SIGN IN SHEET

DATE	TIME	COMPANY	SIGNATURE	PRINT NAME
5-27-15	0600	ETI	Michele Brown	Michele Brown
5-27-15	0600	ETI	Wendy Prescott	WENDY PRESCOTT
5-28-15	0600	ETI	Michele Brown	Michele Brown
5-28-15	0600	ETI	Wendy Prescott	WENDY PRESCOTT
5-29-15	0600	ETI	Michele Brown	Michele Brown
5-29-15	0600	ETI	Wendy Prescott	WENDY PRESCOTT
6-2-15	0600	ETI	Michele Brown	Michele Brown
6-2-15	0600	ETI	Wendy Prescott	WENDY PRESCOTT
6-3-15	0600	ETI	Michele Brown	Michele Brown
7-14-15	0500	ETI	Michele Brown	Michele Brown
7-14-15	0500	ETI/Aerotek	Janel Rivera	Janel Rivera

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-4-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.0	2) 8.01	0520 / MD
Buffer Temperature	3) 23.3	3) 23.2	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1239	0515 / MB
Calibration Value	1) 1291	
Standard Temp	1) 23.4	
	changed standards yes X please check	

Duplicate EC reading Well # I-L

1st Reading

EC 7.17 mS/cm TEMP 25.6°C

2nd Reading

EC 7.13 mS/cm TEMP 25.8°C

CLOSING QC Every 8 samples

I-9 pH 7.01 I5 pH 7.0 JAR pH 6.99

All equipment was rinsed and purged with Deionized water after each well.

Date 5.4.15 Verified MD

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-5-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 4.01	2) 7.99	0350 / MB
Buffer Temperature	3) 22.8°C	3) 22.9	
	changed buffers yes ✓ please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1264	0348 / MB
Calibration Value	1) 1291	
Standard Temp	1) 24.1	
	changed standards yes ✓ please check	

Duplicate EC reading Well # PC-127

1st Reading

EC 7.09 mS/cm TEMP 24.8°C

2nd Reading

EC 7.05 mS/cm TEMP 24.6°C

CLOSING QC Every 8 samples

PC-124 pH 6.99

PC-96 pH 7.01

All equipment was rinsed and purged with Deionized water after each well.

Date 5-5-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-6-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.01	2) 7.98	MB
Buffer Temperature	3) 23.2	3) 22.9°c	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1239	0620/MB
Calibration Value	1) 1288	
Standard Temp	1) 23.4	
	changed standards yes X please check	

Duplicate EC reading Well # PC-110

1st Reading

EC 5.45 mS/cm TEMP 24.4°c

2nd Reading

EC 5.47 mS/cm TEMP 24.5°c

CLOSING QC Every 8 samples

HMW-14 pH 7.02 _____ _____

All equipment was rinsed and purged with Deionized water after each well.

Date 5-6-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-7-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.02	2) 7.99	0645 / MB
Buffer Temperature	3) 22.3	3) 22.4	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1239	0642 / MB
Calibration Value	1) 1288	
Standard Temp	1) 22.9°C	
	changed standards yes X please check	

Duplicate EC reading Well # _____

1st Reading 2nd Reading

NO Dup EC collected today

EC_____ TEMP_____ EC_____ TEMP_____

CLOSING QC Every 8 samples

M-65 pH 7.02 _____ _____

All equipment was rinsed and purged with Deionized water after each well.

Date MB Verified 5-7-15

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-8-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.02	2) 7.98	0614 /MB
Buffer Temperature	3) 21.7	3) 21.2	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1191	0610 / MB
Calibration Value	1) 1288	
Standard Temp	1) 21.4 oc	
	changed standards yes X please check	

Duplicate EC reading Well # ~~X~~ M-131

1st Reading

EC 4.55 mS/cm TEMP 24.0 oc

2nd Reading

EC 4.58 mS/cm TEMP 23.8 oc

CLOSING QC Every 8 samples

M-134 pH 7.01 M-126 pH 7.0 _____

All equipment was rinsed and purged with Deionized water after each well.

Date 5-8-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-14-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.01	2) 7.99	0850/MB
Buffer Temperature	3) 24.0	3)	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1264	0848/MB
Calibration Value	1) 1288	
Standard Temp	1) 24.4	
	changed standards yes X please check	

Duplicate EC reading Well # PC-60

1st Reading

EC 3.01 mS/cm TEMP 22.6°C

2nd Reading

EC 3.03 mS/cm TEMP 22.6°C

CLOSING QC Every 8 samples

PC-60 pH 7.01 Buffer 7.0

All equipment was rinsed and purged with Deionized water after each well.

Date 5-14-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD
DATE 5-19-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.02	2) 7.98	0740/MB
Buffer Temperature	3) 22.3	3) 21.8	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1215	0737/MB
Calibration Value	1) 1287	
Standard Temp	1) 22.1 °C	
	changed standards yes X please check	

Duplicate EC reading Well # ARP-5A

1st Reading

EC 4.27 mS/cm TEMP 24.4 °C

2nd Reading

EC 4.29 mS/cm TEMP 24.5 °C

CLOSING QC Every 8 samples

ARP-6B pH 7.01 ARP-2A pH 7.0 _____

All equipment was rinsed and purged with Deionized water after each well.

Date 5-19-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-20-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.02	2) 7.99	0805/MB
Buffer Temperature	3) 23.0°c	3) 23.1	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1264	0803/MB
Calibration Value	1) 1288	
Standard Temp	1) 23.9°c	
	changed standards yes X please check	

Duplicate EC reading Well # HMW-16

1st Reading

EC 7.70 mS/cm TEMP 27.2°c

2nd Reading

EC 7.74 mS/cm TEMP 27.5°c

CLOSING QC Every 8 samples

pc-2 pH 7.01 HMW-16 pH 7.0 _____

All equipment was rinsed and purged with Deionized water after each well.

Date 5-20-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-21-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.01	2) 7.98	0748/MB
Buffer Temperature	3) 23.1 °C	3) 23.1 °C	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1264	0745/MB
Calibration Value	1) 1287	
Standard Temp	1) 23.8	
	changed standards yes X please check	

Duplicate EC reading Well # M-38

1st Reading

EC 11.30 TEMP 25.3

mS/cm

2nd Reading

EC 11.28 TEMP 25.4 °C

mS/cm

CLOSING QC Every 8 samples

M-38 pH 6.99 _____ _____

All equipment was rinsed and purged with Deionized water after each well.

Date 5-21-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-22-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.01	2) 7.98	0835/MD
Buffer Temperature	3) 23.6°C	3) 23.7°C	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1264	
Calibration Value	1) 1288	0830/MB
Standard Temp	1) 24.3°C	
	changed standards yes X please check	

Duplicate EC reading Well # M-97

1st Reading

EC 6.16 mS/cm TEMP 25.3 °C

2nd Reading

EC 6.19 mS/cm TEMP 25.6°C

CLOSING QC Every 8 samples

M97 7.02 _____ _____

All equipment was rinsed and purged with Deionized water after each well.

Date 5-22-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-26-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.02	2) 7.98	
Buffer Temperature	3) 23.9	3) 23.7	0715/WP
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1269	
Calibration Value	1) 1300	0725/WP
Standard Temp	1) 23.9	
	changed standards yes X please check	

Duplicate EC reading Well # M-95

1st Reading

EC 6.60 mS/cm TEMP 25.5°C

2nd Reading

EC 6.62 mS/cm TEMP 25.7°C

CLOSING QC Every 8 samples

H.58 6.99 _____ _____

All equipment was rinsed and purged with Deionized water after each well.

Date 5-26-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-27-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.01	2) 8.01	6AM/WP
Buffer Temperature	3) 24.4	3) 24.8	
	changed buffers yes_____ please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 13100	
Calibration Value	1) 1293	6AM/WP
Standard Temp	1) 25.8	
	changed standards yes Y please check	

Duplicate EC reading Well # MC-69

1st Reading

EC 19.20 mS/cm TEMP 26.2 oc

2nd Reading

EC 19.13 mS/cm TEMP 26.6 oc

CLOSING QC Every 8 samples

MC-7 pH 7.0 M-23 pH 6.99 _____

All equipment was rinsed and purged with Deionized water after each well.

Date 5-27-15 Verified MD

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-28-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.01	2) 8.02	630 / WP
Buffer Temperature	3) 25.5	3) 25.1	
	changed buffers yes ✓ please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1288	630 / WP
Calibration Value	1) 1290	
Standard Temp	1) 25.5	
	changed standards yes ✓ please check	

Duplicate EC reading Well # PC-31

1st Reading

EC 5.63 mS/cm TEMP 28.7°C

2nd Reading

EC 5.60 mS/cm TEMP 28.8°C

CLOSING QC Every 8 samples

PC-31 7.0 _____ _____

All equipment was rinsed and purged with Deionized water after each well.

Date 5-28-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 5-29-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 6.97	2) 7.95	600 | WP
Buffer Temperature	3) 24.1	3) 24.9	
	changed buffers yes ✓ please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1288	600 | WP
Calibration Value	1) 1291	
Standard Temp	1) 1288	
	changed standards yes ✓ please check	

Duplicate EC reading Well # I-K

1st Reading

EC 5.77 mS/cm TEMP 26.9 °C

2nd Reading

EC 5.81 mS/cm TEMP 27.0 °C

CLOSING QC Every 8 samples

I-K pH 6.99

All equipment was rinsed and purged with Deionized water after each well.

Date 5-29-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 6-2-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.0	2) 7.99	0620/MB
Buffer Temperature	3) 24.8	3) 24.5	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1288	0615/MB
Calibration Value	1) 1288	
Standard Temp	1) 24.9	
	changed standards yes X please check	

Duplicate EC reading Well # M-31A

1st Reading

EC 6.55 mS/cm TEMP 25.7 °C

2nd Reading

EC 6.56 mS/cm TEMP 26.2 °C

CLOSING QC Every 8 samples

M-139 pH 6.99 M-35 7.01 _____

All equipment was rinsed and purged with Deionized water after each well.

Date 6-2-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 6-3-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.01	2) 7.99	0645 / MB
Buffer Temperature	3) 24.6	3) 24.8	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1264	0640 / MB
Calibration Value	1) 1292	
Standard Temp	1) 24.4	
	changed standards yes X please check	

Duplicate EC reading Well # MW48-A

1st Reading

EC 5.43 mS/cm TEMP 28.7

2nd Reading

EC 5.44 mS/cm TEMP 29.0°C

CLOSING QC Every 8 samples

M.139 6.99 _____ _____

All equipment was rinsed and purged with Deionized water after each well.

Date 6-3-15 Verified MB

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 6-5-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.02	2) 8.01	
Buffer Temperature	3) 24.8	3) 24.7	545/WP
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1264	
Calibration Value	1) 1287	550/WP
Standard Temp	1) 23.7	
	changed standards yes X please check	

Duplicate EC reading Well # M-11

1st Reading

EC 2.99 mS/cm TEMP 26.6 °C

2nd Reading

EC 2.98 mS/cm TEMP 26.5 °C

CLOSING QC Every 8 samples

M-11 pH 7.01 _____ _____

All equipment was rinsed and purged with Deionized water after each well.

Date 6-5-15 Verified MP

ENVIROGEN

DAILY MANTENANCE AND CALIBRATION RECORD

DATE 7-14-15

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
CalibrationValue	2) 7.01	2) 7.98	0518 / SV
Buffer Temperature	3) 24.5°c	3)	
	changed buffers yes X please check		

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1288	0515 / SV
Calibration Value	1) 1288	
Standard Temp	1) 24.7	
	changed standards yes X please check	

Duplicate EC reading Well # PC-62

1st Reading

EC 2.48 mS/cm TEMP 23.6°c

2nd Reading

EC 2.49 mS/cm TEMP 23.5°c

CLOSING QC Every 8 samples

PC-60 7.01 ~~PC-86~~ MB

All equipment was rinsed and purged with Deionized water after each well.

Date 7-14-15 Verified MB

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
ARP-1	44.2	1613.32	24.03		1589.29	7.47	6.68	5/27/2015	8:13		pH, TDS, Cr, ClO_4
ARP-2A	54	1614.18	25.48		1588.70	7.50	8.36	5/19/2015	12:53		pH, TDS, Cr, ClO_4
ARP-3A	41	1614.67	26.92		1587.75	7.21	11.56	5/19/2015	12:35		pH, TDS, Cr, ClO_4
ARP-4A	33	1615.47	28.75		1586.72	7.29	5.73	5/19/2015	11:57		pH, TDS, Cr, ClO_4
ARP-5A	38	1616.10	31.72		1584.38	7.49	4.27	5/19/2015	11:43		pH, TDS, Cr, ClO_4
ARP-6B	43	1615.56	31.26		1584.30	7.15	9.10	5/19/2015	11:27		pH, TDS, Cr, ClO_4
ARP-7	39.2	1613.20	29.39		1583.81	7.14	9.27	5/19/2015	11:14		pH, TDS, Cr, ClO_4
ART-1	56	1614.47	25.48		1588.99	7.58		5/28/2015	10:15		pH, TDS, Cr, ClO_4
ART-1A	56	1614.40	23.97		1590.43			5/28/2015	10:16		DTW Only
ART-2	56	1617.10	27.28		1589.82			5/28/2015	10:21		DTW Only
ART-2A	58	1616.81	28.06		1588.75	7.26		5/28/2015	10:24		pH, TDS, Cr, ClO_4
ART-3	47	1617.94	30.83		1587.11			5/28/2015	10:37		DTW Only
ART-3A	55	1617.60	35.93		1581.67	7.39		5/28/2015	10:47		pH, TDS, Cr, ClO_4
ART-4	46	1617.39	25.51		1591.88	7.36		5/28/2015	10:52		DTW Only
ART-4A	46	1617.46	29.28		1588.18			5/28/2015	10:49		pH, TDS, Cr, ClO4
ART-6	36	1615.19	26.8		1588.39	7.49		5/4/2015	12:30		DTW Only
ART-7	38.9	1615.37			1615.37					well capped	pH, TDS, Cr, ClO4
ART-7A	40	1614.78	28.97		1585.81	7.45		5/4/2015	12:43		DTW Only
ART-7B	50	1619.62	38.08		1581.54	7.43		5/28/2015	10:01		pH, TDS, Cr, ClO_6

Sampling Crew Signature: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
ART-8	50.53	1617.66	30.07		1587.59	7.16		5/28/2015	10:29		pH, TDS, Cr, ClO_4
ART-8A	54	1617.10	27.71		1589.39			5/28/2015	10:35		DTW Only
ART-9	43	1614.90	30.35		1584.55	7.38		5/28/2015	10:07		pH, TDS, Cr, ClO_4
L-635	36.5				0.00			5/27/2015	9:15	No Access	pH, TDS, Cr, ClO4
L-637	37.5				0.00			5/27/2015	9:15	No Access	pH, TDS, Cr, ClO4
M-2A	47.57	1781.16	42.22		1738.94	7.39	6.99	05/29/15	11:37		pH, TDS, Cr, ClO_4
M-5A	50.00	1751.80	38.12		1713.68	7.02	16.43	5/22/2015	10:42		(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
M-6A	46.00	1733.19	39.02		1694.17	7.06	10.18	5/28/2015	9:01		(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
M-7B	55.00	1732.83	36.86		1695.97	7.42	11.36	5/22/2015	8:00		(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
M-10	69.45	1836.21	51.53		1784.68	7.29	3.31	6/3/2015	10:40		pH / CR6 / Cr / ClO_4 /TDS /+NPDES list
M-11	58.00	1815.53	44.64		1770.89	7.97	2.99	6/5/2015	12:25		pH / TDS / Cr / Cr6 / Cl04 / NO3 / CLO3
M-12A	49.71	1812.47	42.69		1769.78	8.00	8.19	6/5/2015	12:02		pH / TDS / Cr / Cr6 / Cl04 / NO3 / CLO3
M-13	54.76	1814.89	45.62		1769.27	7.51	3.80	6/5/2015	0.380		pH / TDS / Cr / Cl04 / NO3 / CLO3
M-14A	42.40	1760.93	32.94		1727.99	7.07	4.13	5/22/2015	10:03		pH, TDS, Cr, ClO_4
M-19	41.20	1766.77	35.36		1731.41	6.97	5.18	5/29/2015	11:05		pH, TDS, Cr, ClO_4
M-21	44.74	1792.07	40.72		1751.35	7.39	3.87	6/5/2015	0.36		pH, TDS, Cr, ClO_4
M-22A	36.92	1759.46	31.01		1728.45	7.28	10.97	5/21/2015	13:38		pH, TDS, Cr, ClO_4
M-23	44.66	1720.54	35.05		1685.49	7.39	4.51	5/27/2015	13:06		pH / TDS / Cr / Cl04 / NO3 / CLO3

Sampling Crew Signature: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
M-25	41.47	1759.93	33.79		1726.14	7.18	8.69	5/22/2015	11:25		pH / TDS / Cr / Cl04 / NO3 / CLO3
M-31A	55.00	1796.87	46.91		1749.96	7.44	6.55	6/2/2015	12:30		pH, TDS, Cr, ClO_4
M-32	53.30	1795.60	46.19		1749.41	7.23	5.98	7/14/2015	6:28	TWD measured in Field	pH, TDS, Cr, ClO4
M-33	53.40	1795.49	46.09		1749.40	7.22	5.27	7/14/2015	6:09	TWD measured in field	pH, TDS, Cr, ClO_4
M-35	39.70	1772.78	33.29		1739.49	7.20	3.96	5/29/2015	11:18		pH, TDS, Cr, ClO_4
M-36	37.85	1759.82			1759.82			5./21/15	13:48	Destroyed	pH / Cr / Cr^6 / ClO_4 / TDS / NO3 / CLO3
M-37	37.18	1761.06	32.03		1729.03	6.98	6.78	5/22/2015	11:53		pH / Cr / Cr^6 / ClO_4 / TDS / NO3 / CLO3
M-38	36.82	1759.73	31.62		1728.11	7.12	11.30	5/21/2015	13:49		pH / Cr / Cr^6 / ClO_4 / TDS
M-44	37.65	1698.31	25.34		1672.97	7.31	9.52	5/26/2015	13:15		pH / TDS / Cr / Cr6 / Cl04
M-48A	40	1718.36	30.72		1687.64	7.40	6.04	5/26/2015	9:47		pH / TDS / Cr / Cl04 / NO3 / CLO3
M-52	47.85	1802.39	42.15		1760.24	7.43	5.33	6/2/2015	12:10		pH, TDS, Cr, ClO_4
M-55	45.00	1750.88	29.92		1720.96			5/4/2015	7:05		DTW Only
M-56	40.00	1750.83	32.02		1718.81			5/4/2015	6:16		DTW Only
M-57A	42.40	1753.44	29.89		1723.55	7.65	4.61	5/8/2015	10:58		pH, TDS, Cr, ClO_4
M-58	45.00	1751.25	30.36		1720.89			5/4/2015	5:55		DTW Only
M-60	43.00	1750.94	32.75		1718.19			5/4/2015	6:14		DTW Only
M-64	38.00	1749.76	29.49		1720.27	7.38	6.80	5/8/2015	7:05		pH, TDS, Cr, ClO_4
M-65	40.00	1753.91	33.16		1720.75	7.11	12.70	5/7/2015	12:09		pH, TDS, Cr, ClO_4

Sampling Crew Signature: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
M-66	43.00	1754.24	31.96		1722.28	7.14	13.52	5/8/2015	8:00		pH, TDS, Cr, ClO_4
M-67	38.00	1745.91	22.34		1723.57	7.23	5.46	5/29/2015	9:56		pH, TDS, Cr, ClO_4
M-68	41.00	1750.23	26.34		1723.89	7.22	5.83	5/29/2015	9:38		pH, TDS, Cr, ClO_4
M-69	40.00	1749.75	33.99		1715.76	7.38	4.89	5/8/2015	8:49		pH, TDS, Cr, ClO_4
M-70	41.00	1748.25	35.37		1712.88	7.34	8.22	5/21/2015	12:46		pH, TDS, Cr, ClO_4
M-71	43.00	1747.04	35.81		1711.23	7.23	7.71	5/21/2015	13:03		pH, TDS, Cr, ClO_4
M-72	36.00	1746.49	32.17		1714.32	7.11	11.08	5/21/2015	13:19		pH, TDS, Cr, ClO_4
M-73	36.00	1741.14	28.48		1712.66	7.22	6.76	5/29/2015	10:20		pH, TDS, Cr, ClO_4
M-74	39.70	1745.08	27.76		1717.32	7.34	5.64	5/29/2015	10:40		pH, TDS, Cr, ClO_4
M-75	53.90	1784.21	42.47		1741.74	7.65	4.13	5/29/2015	11:50		pH, TDS, Cr, ClO_4
M-76	54.60	1785.22	39.38		1745.84	7.60	4.73	5/29/2015	12:08		pH, TDS, Cr, ClO_4
M-77	49.32	1801.73	40.63		1761.10	7.38	3.07	6/5/2015	6:55		pH, TDS, Cr, ClO_4
M-78	43.60	1751.50	32.91		1718.59			5/4/2015	7:00		DTW ONLY
M-79	37.60	1742.53	31.73		1710.80	7.37	5.67	5/8/2015	8:24		pH / TDS / Cr / ClO_4
M-80	43.70	1746.04	36.07		1709.97	7.29	3.72	5/29/2015	8:31		pH / Cr / ClO_4 / TDS
M-81A	41.60	1744.16	35.83		1708.33	7.30	4.56	5/29/2015	7:55		pH / TDS / Cr / ClO_4
M-83	41.75	1742.02	31.66		1710.36	7.28	4.11	5/29/2015	8:39		pH, TDS, Cr, ClO_4
M-92	48.50	1800.76	36.06		1764.70	7.38	2.78	5/22/2015	12:37		pH, TDS, Cr, ClO4

Sampling Crew Signature: Michele Brown

TABLE 1
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WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
M-93	49.00	1797.54	35.22		1762.32			5/28/2015	12:08	bailer stuck in well	pH, TDS, Cr, ClO4
M-95	30.00	1694.09	18.08		1676.01	7.17	6.60	5/26/2015	12:58		pH / TDS / Cr / Cr6 / Cl04
M-96	16.57	1693.85			1693.85			5/26/2015	12:56	Dry	pH / Cr / Cr^6 / ClO_4 / TDS
M-97	52.50	1800.85	39.89		1760.96	7.24	6.16	5/22/2015	12:56		pH, TDS, Cr, ClO_4
M-98	33.40	1731.90			1731.90			5/28/2015	9:38	Dry	pH, TDS, Cr, ClO_4
M-99	35.59	1730.74	33.63		1697.11	7.48	4.89	5/22/2015	8:40		pH, TDS, Cr, ClO_4
M-100	33.81	1730.93			1730.93			5/29/2015	8:57	Dry	pH / TDS / Cr / Cr6 / Cl04
M-101	32.15	1730.81			1730.81			5/29/2015	8:55	Dry	pH, TDS, Cr, ClO_4
M-115	47.50	1787.64	37.99		1749.65	7.61	2.53	5/29/2015	12:26		pH, TDS, Cr, ClO_4
M-131	39.00	1754.13	33.82		1720.31	7.58	4.55	5/8/2015	10:41		pH, TDS, Cr, ClO_4
M-135	39.00	1751.85	34.69		1717.16	7.58	4.66	5/8/2015	9:55		pH, TDS, Cr, ClO_4
M-166	32.00	1751.09	29.72		1721.37			5/4/2015	8:25		DTW Only
M-167	30.00	1749.95	28.81		1721.14			5/4/2015	7:53		DTW Only
M-168	35.00	1748.46	26.41		1722.05			5/4/2015	7:43		DTW Only
M-169	35.00	1750.22	28.72		1721.50			5/4/2015	7:41		DTW Only
M-170	35.00	1750.66	29.69		1720.97			5/4/2015	7:33		DTW Only
M-172	37.00	1750.58	33.52		1717.06			5/4/2015	6:36		DTW Only
M-173	40.00	1749.88	29.52		1720.36			5/4/2015	5:57		DTW Only

Sampling Crew Signature: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
M-174	28.00	1742.29	20.75		1721.54			5/22/2015	6:43		DTW Only
M-175	29.00	1742.74	21.56		1721.18			5/22/2015	6:42		DTW Only
M-176	30.00	1745.35	24.22		1721.13			5/22/2015	6:40		DTW Only
M-177	30.00	1743.23	21.73		1721.50			5/22/2015	6:38		DTW Only
MW-K4	50	1614.96	27.73		1587.23	7.22	10.81	5/19/2015	12:16		pH, TDS, Cr, ClO_4
MW-K5	44	1598.87	30.12		1568.75	7.15	9.33	5/19/2015	10:50		pH / TDS / Cr / Cl04 / NO3 / CLO3
PC-18	52.11	1618.39	28.28		1590.11	7.12	12.56	5/27/2015	7:53		pH, TDS, Cr, ClO_4
PC-53	32.86	1595.17	27.42		1567.75	7.34	5.88	5/19/2015	10:34		pH, TDS, Cr, ClO_4
PC-55	54.9	1618.46	27.44		1591.02	7.32	8.87	5/27/2015	6:25		pH, TDS, Cr, ClO_4
PC-56	63.58	1576.83	21.21		1555.62	7.48	6.35	5/14/2015	11:44		pH, TDS, Cr, ClO_4
PC-58	42.78	1,576.79	21.95		1554.84	7.41	4.75	5/14/2015	11:22		pH, TDS, Cr, ClO_4
PC-59	48.13	1576.05	19.71		1556.34	7.49	3.53	5/14/2015	12:45		pH, TDS, Cr, ClO_4
PC-60	48.09	1576.47	20.41		1556.06	7.65	3.01	5/14/2015	12:20		pH, TDS, Cr, ClO_4
PC-62	45.91	1575.74	18.87		1556.87	7.43	2.59	5/19/2015	8:31		pH, TDS, Cr, ClO_4
PC-68	64.72	1576.39	18.83		1557.56	7.39	2.76	5/19/2015	8:58		pH, TDS, Cr, ClO_4
PC-86	35.75	1561.60	12.11		1549.49	7.54	2.78	5/19/2015	9:30		pH / TDS / Cr / Cl04 / NO3 / CLO3
PC-90	15.0	1550.46	5.67		1544.79	7.56	3.96	5/14/2015	10:02		pH / TDS / Cr / Cl04 / NO3 / CLO3
PC-91	37.0	1552.33	11.08		1541.25	7.60	3.93	5/14/2015	10:22		pH / TDS / Cr / Cl04 / NO3 / CLO3

Sampling Crew Signature: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
PC-92	22.0	1552.05	10.81		1541.24	7.48	3.52	5/14/2015	10:41		pH, TDS, Cr, ClO_4
PC-94	20.0	1548.95	12.08		1536.87	7.25	8.20	5/14/2015	11:01		pH, TDS, Cr, ClO_4
PC-95	35.0	1550.62			1550.62					P & A	pH, TDS, Cr, ClO_4
PC-97	33.5	1548.53	4.42		1544.11	7.45	3.33	5/14/2015	9:40		pH, TDS, Cr, ClO_4
PC-98R	40.5	1593.35	22.89		1570.46	7.37	8.17	5/20/2015	10:05		pH, TDS, Cr, ClO_4
PC-99R3	55.3	1552.48	12.12		1540.36	7.09		5/28/2015	10:13		pH, TDS, Cr, ClO_4
PC-101R	50.58	1618.04	29.12		1588.92	7.04	14.93	5/20/2015	9:10		pH, TDS, Cr, ClO_4
PC-103	29.5	1599.49	22.95		1576.54	7.31	6.51	5/20/2015	9:43		pH / TDS / Cr / Cl04 / NO3 / CLO3
PC-115R	55.5	1554.71	11.38		1543.33	7.34		5/28/2015	11:24		pH, TDS, Cr, ClO_4
PC-116R	55.5	1552.10	13.47		1538.63	7.27		5/28/2015	11:18		pH, TDS, Cr, ClO_4
PC-117	53.0	1552.26	11.58		1540.68	7.28		5/28/2015	11:15		pH, TDS, Cr, ClO_4
PC-118	51.0	1554.53	8.15		1546.38	7.37		5/28/2015	11:27		pH, TDS, Cr, ClO_4
PC-119	47.0	1554.66	6.29		1548.37	7.45		5/28/2015	11:31		pH, TDS, Cr, ClO_4
PC-120	47.0	1554.64	4.53		1550.11	7.32		5/28/2015	11:36		pH, TDS, Cr, ClO_4
PC-121	38.5	1554.10	4.51		1549.59	7.25		5/28/2015	11:38		pH, TDS, Cr, ClO_4
PC-122	38.0	1618.02	31.69		1586.33	7.33	8.76	5/19/2015	10:12		pH, TDS, Cr, ClO_4
PC-123	34.70	1626.44	22.93		1603.51	7.44	7.32	5/5/2015	4:40		pH, TDS, Cr, ClO_4
PC-124	34.60	1635.73	25.27		1610.46	7.31	10.90	5/5/2015	7:16		pH / TDS / Cr / Cl04 / NO3 / CLO3

Sampling Crew Signature: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
PC-125	33.50	1635.06	23.43		1611.63	7.43	7.04	5/5/2015	7:40		pH, TDS, Cr, ClO_4
PC-126	34.35	1634.38	22.30		1612.08	7.33	10.22	5/5/2015	8:03		pH / TDS / Cr / Cl04 / NO3 / CLO3
PC-127	34.70	1632.42	18.91		1613.51	7.41	7.09	5/5/2015	9:14		pH, TDS, Cr, ClO_4
PC-128	34.70	1633.36	18.62		1614.74	7.45	6.80	5/5/2015	5:04		pH / TDS / Cr / Cl04 / NO3 / CLO3
PC-129	37.70	1633.99	18.54		1615.45	7.32	7.31	5/5/2015	5:25		pH, TDS, Cr, ClO_4
PC-130	49.70	1633.21	19.24		1613.97	7.30	7.78	5/5/2015	5:51		pH / TDS / Cr / Cl04 / NO3 / CLO3
PC-131	39.40	1633.58	11.29		1622.29	7.26	13.14	5/6/2015	6:42		pH, TDS, Cr, ClO_4
PC-132	39.56	1634.70	9.92		1624.78	7.27	12.78	5/5/2015	6:49		pH / TDS / Cr / Cl04 / NO3 / CLO3
PC-133	40.2	1553.00	7.06		1545.94	7.28		5/28/2015	11:10		pH, TDS, Cr, ClO_4
PC-135A	50.8	1618.58	29.18		1589.40	7.02	13.87	5/7/2015	9:45		pH, TDS, Cr, ClO_4
PC-136	40.3	1618.04	32.63		1585.41	7.38	6.80	5/20/2015	11:33		pH, TDS, Cr, ClO_4
PC-142	34.5	1619.64	27.72		1591.92	7.44	6.52	5/27/2015	8:33		pH, TDS, Cr, ClO_4
PC-143	65	1619.20	29.71		1589.49	7.40	10.94	5/21/2015	9:47		pH, TDS, Cr, ClO_4
PC-144	39.7	1618.63	30.52		1588.11	7.07	11.22	5/20/2015	8:48		pH, TDS, Cr, ClO_4
PC-145	39.7	1617.76	32.74		1585.02	7.40	9.34	5/20/2015	10:51		pH, TDS, Cr, ClO4
PC-146								5/21/2015	8:25	DRY	pH, TDS, Cr, ClO4
PC-147	31.7	1617.51	30.89		1586.62			5/21/2015	8:20	Well considered Dry	pH, TDS, Cr, ClO4
PC-148	50.2	1617.96	27.83		1590.13	7.30	7.28	5/21/2015	8:28		pH, TDS, Cr, ClO_4

Sampling Crew Signature: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
PC-149	50	1618.93	29.51		1589.42	7.36	5.28	5/21/2015	9:07		pH, TDS, Cr, ClO_4
PC-150	45.7	1619.09	33.72		1585.37	7.32		5/28/2015	10:58		pH, TDS, Cr, ClO_4
INTERCEPTOR WELLS											
I-AA	46.00	1753.93	43.99		1709.94	7.36	4.74	5/4/2015	8:28		pH, TDS, Cr, ClO_4
I-AB	52..0	1753.89	33.36		1720.53	7.42	5.37	5/4/2015	8:19		pH, TDS, Cr, ClO_4
I-AC	50	1752.76	29.23		1723.53	6.88	9.73	5/29/2015	9:25		pH, TDS, Cr, ClO4
I-AD	50	1755.39	29.99		1725.40	7.31	5.57	5/29/2015	9:34		pH, TDS, Cr, ClO4
I-AR	45.00	1758.35	43.07		1715.28	7.20	7.90	5/4/2015	8:35		pH, TDS, Cr, ClO_4
I-B	45.70	1752.87	43.62		1709.25	7.20	5.97	5/4/2015	8:12		pH, TDS, Cr, ClO_4
I-C	43.80	1752.77	36.49		1716.28	7.38	8.24	5/4/2015	7:37		pH, TDS, Cr, ClO_4
I-D	47.70	1752.67	43.77		1708.90	7.29	8.26	5/4/2015	7:26		pH, TDS, Cr, ClO_4
I-E	46.70	1752.36	44.46		1707.90	7.10	9.49	5/4/2015	7:07		pH, TDS, Cr, ClO_4
I-F	45.80	1749.70	41.02		1708.68	7.04	11.56	5/4/2015	6:37		pH, TDS, Cr, ClO_4
I-G	42.60	1752.50	41.45		1711.05	7.10	9.11	5/4/2015	6:16		pH, TDS, Cr, ClO_4
I-H	46.50	1753.21	44.08		1709.13	6.81	13.49	5/4/2015	5:47		pH, TDS, Cr, ClO_4
I-I	44.20	1745.50	27.41		1718.09	7.17	7.30	5/29/2015	9:06		pH, TDS, Cr, ClO_4
I-J	44.50	1750.09	38.28		1711.81	7.15	5.78	5/29/2015	9:14		pH, TDS, Cr, ClO_4
I-K	40.60	1746.04	34.80		1711.24	7.30	5.77	5/29/2015	9:19		pH, TDS, Cr, ClO_4
I-L	43.40	1751.70	38.64		1713.06	7.36	7.17	5/4/2015	7:54		pH, TDS, Cr, ClO_4

Sampling Crew Signature: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
I-M	43.70	1752.90	36.33		1716.57	7.31	9.48	5/4/2015	7:14		pH, TDS, Cr, ClO_4
I-N	41.70	1751.45	37.76		1713.69	7.18	9.97	5/4/2015	6:52		pH, TDS, Cr, ClO_4
I-O	43.80	1752.79	37.81		1714.98	7.30	10.31	5/4/2015	5:28		pH, TDS, Cr, ClO_4
I-P	47.80	1751.66	39.69		1711.97	6.97	11.25	5/4/2015	5:40		pH, TDS, Cr, ClO_4
I-Q	43.80	1753.11	40.19		1712.92	6.88	13.73	5/4/2015	6:25		pH, TDS, Cr, ClO_4
I-R	45.30	1751.35	39.68		1711.67	7.24	7.51	5/4/2015	8:04		pH, TDS, Cr, ClO_4
I-S	47.70	1750.03	25.39		1724.64	7.40	7.28	5/4/2015	7:45		pH, TDS, Cr, ClO_4
I-T	47.80	1751.66	43.28		1708.38	7.04	14.36	5/4/2015	6:07		pH, TDS, Cr, ClO_4
I-U	47.60	1752.17	44.28		1707.89	6.82	13.99	5/4/2015	6:00		pH, TDS, Cr, ClO_4
I-V	47.70	1752.13	33.74		1718.39	7.23	7.23	5/29/2015	8:56		pH, TDS, Cr, ClO_4
I-W	50.00	1751.50	43.63		1707.87	7.23	9.98	5/4/2015	5:36		pH, TDS, Cr, ClO_4
I-X	50.00	1748.60	41.73		1706.87	7.03	11.36	5/4/2015	6:46		pH, TDS, Cr, ClO_4
I-Y	50.50	1751.40	40.16		1711.24	7.32	7.70	5/4/2015	7:59		pH, TDS, Cr, ClO_4
I-Z	37.00	1743.78	33.28		1710.50	7.25	6.08	5/29/2015	9:08		pH, TDS, Cr, ClO_4
OTHER WELLS (OFFSITE)					0.00						
PC-37	43.08	1707.72	30.82		1676.90	7.30	8.33	5/27/2015	9:30		pH, TDS, Cr, ClO_4
PC-54	34.60	1704.43	24.74		1679.69	7.38	5.56	5/26/2015	9:19		pH, TDS, Cr, ClO_4
PC-71	33.23	1698.73	28.03		1670.70	7.33	9.27	5/26/2015	10:50		pH, TDS, Cr, ClO_4
PC-72	39.54	1699.43	30.89		1668.54	7.33	8.43	5/26/2015	11:08		pH, TDS, Cr, ClO_4

Sampling Crew Signature: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan/Temp
PC-73	49.44	1699.50	31.94		1667.56	7.28	8.62	5/26/2015	11:22		pH, TDS, Cr, ClO_4
PIONEER CHEMICAL WELL											
H-28A	51.00	1731.75	39.28		1692.47	7.07	12.37	5/28/2015	9:19		(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
DUPLICATE SAMPLES											
DUP-1	M-66					7.14	13.52	5/8/2015	8:14		pH, TDS, Cr, ClO_4
DUP-1	PC-144					7.07	11.22	5/20/2015	8:59		pH, TDS, Cr, ClO_4
DUP-2	PC-148					7.30	7.28	5/21/2015	8:59		pH, TDS, Cr, ClO_4
DUP-3	M-25					7.18	8.69	5/22/2015	11:35		pH, TDS, Cr, ClO4, ClO3, NO3
DUP-4	M-44					7.31	9.52	5/26/2015	13:25		Cr, ClO4, CRV1, TDS, Ph
DUP-5	M-124					7.65	3.92	6/3/15	8:40		pH, TDS, Cr, ClO_4
OTHER SAMPLES COLLECTED											
FB-1								5/8/2015	11:30		pH / TDS / Cr / Cr6 / Cl04
FB-2								5/27/2015	12:30		pH / TDS / Cr / Cr6 / Cl04
EB-1								5/5/2015	9:05		pH / TDS / Cr / Cr6 / Cl04
EB-2								5/6/2015	10:15		pH / TDS / Cr / Cr6 / Cl04
EB-3								5/7/2015	10:05		pH / TDS / Cr / Cr6 / Cl04
EB-4								5/8/2015	8:20		pH / TDS / Cr / Cr6 / Cl04
EB-5								5/26/2015	11:37		pH / TDS / Cr / Cr6 / Cl04

NOTES:

Monthly 1st Monday
Monthly ARP and PC

Sampling Crew Signature: Michele Brown

TABLE 2
Well Inventory for Envirogen Groundwater Sampling
Nevada Environmental Response Trust Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan
AA-01	51.50	1757.13	49.08	None	1708.05	7.23	4.99	6/2/15	7:22 AM		pH, TDS, ClO_4
AA-11	31.40	1660.05		None	1660.05			6/2/15	7:00 AM	DRY	CR, pH, TDS, ClO_4
BEC-1	40.00	1732.04		None	1732.04			5/28/15		NOT FOUND	pH, TDS, ClO_4
DM-4	26.50	1622.47		None	1622.47			5/28/15		NOT FOUND	pH, TDS, Cr, ClO_4
DM-5	26.50	1625.48		None	1625.48			5/28/15		NOT FOUND	pH, TDS, Cr, ClO_4
H-11	116.00	1868.41		None	1868.41			6/3/15	8:59 AM	COULD NOT REMOVE CAP	pH, TDS, ClO_4
H-48	32.60	1684.29		None	1684.29			5/27/15	9:51 AM	COULD NOT REMOVE CAP	pH, TDS, Cr, ClO_4
H-58A	57.00	1693.43	30.04	None	1663.39	7.01	18.25	5/26/15	12:05 PM		pH, TDS, Cr, ClO_4
HM-2	36.60	1588	28.12	None	1559.88	7.38	5.69	5/6/15	10:07 AM		pH, TDS, ClO_4
HMW-13	40.00	1595.51	17.04	None	1578.47	7.44	2.22	5/7/15	8:53 AM		pH, TDS, ClO_4
HMW-14	40.00	1599.82	19.47	None	1580.35	7.57	2.30	5/6/15	11:49 AM		pH, TDS, ClO_4
HMW-15	30.00	1611.97	11.44	None	1600.53	7.30	3.19	5/6/15	10:41 AM		pH, TDS, ClO_4
HMW-16	30.00	1621.43	8.89	None	1612.54	7.32	7.70	5/20/15	1:20 PM		pH, TDS, ClO_4
HSW-1	24.00	1599.40		None	1599.40					NOT FOUND	pH, TDS, ClO_4
M-29	42.00	1806.60		None	1806.60					NOT SAMPLED DUE TO SAFETY	pH / TDS / Cr / ClO4 / NO3 / CLO3
M-123	55.60	1785.13	41.42	None	1743.71	7.36	19.83	6/3/15	7:45 AM		pH, TDS, ClO_4, CR
M-124	53.39	1787.66	36.84	None	1750.82	7.65	3.92	6/3/15	8:28 AM		pH, TDS, Cr, ClO_4
M-125	54.00	1771.33	38.67	None	1732.66	7.32	16.94	6/3/15	7:07 AM		pH, TDS, CR, ClO_4.

Signature Michele Brown

Print Michele Brown

TABLE 2
Well Inventory for Envirogen Groundwater Sampling
Nevada Environmental Response Trust Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan
M-126	40.00	1,759.01	34.99	None	1724.02	7.21	17.11	5/8/15	11:20 AM		pH, TDS, Cr, ClO_4
M-128	58.60	1783.80	41.84	None	1741.96	7.64	3.49	6/3/15	8:03 AM		pH, TDS, Cr, ClO_4
M-132	90.22	1,744.49	24.37	None	1720.12	7.75	2.14	6/5/15	8:03 AM		pH, TDS, Cr, ClO_4
M-133	70.00	1,743.62	26.12	None	1717.50	7.41	6.78	6/5/15	7:25 AM		pH, TDS, Cr, ClO_4
M-134	70.00	1,752.14	34.67	None	1717.47	7.60	3.61	5/8/15	10:08 AM		pH, TDS, Cr, ClO_4
M-136	90.00	1,751.87	30.11	None	1721.76	7.94	1.94	5/8/15	9:15 AM		pH, TDS, Cr, ClO_4
M-137	75.00	1847.54	58.78	None	1788.76	7.51	2.86	6/3/15	9:09 AM		pH, TDS, Cr, ClO_4
M-138	65.00	1846.35	57.82	None	1788.53	7.48	3.07	6/3/15	9:35 AM		pH, TDS, Cr, ClO_4
M-139	60.00	1813.47	37.12	None	1776.35	7.75	3.31	6/2/15	10:48 AM		pH, TDS, Cr, ClO_4
M-140	43.00	1748.21				7.39	8.51	5/8/15	6:15 AM	NO ACCESS FOR DTW	pH, TDS, Cr, ClO_4
M-141	48.30	1797.16	43.52	None	1753.64	7.27	6.45	6/2/15	11:51 AM		pH, TDS, Cr, ClO_4
M-142	45.86	1773.55	31.19	None	1742.36	7.58	3.42	6/2/15	9:41 AM		pH, TDS, Cr, ClO_4
M-144	45.00	1813.31	38.79	None	1774.52	7.77	5.01	6/2/15	8:28 AM		pH, TDS, Cr, ClO_4
M-145	60.00	1812.18	39.19	None	1772.99	7.37	3.54	6/2/15	10:09 AM		pH, TDS, Cr, ClO_4
M-146	50.00	1812.48	35.96	None	1776.52	7.61	5.09	6/2/15	8:51 AM		pH, TDS, Cr, ClO_4
M-147	40.00	1778.39	36.37	None	1742.02	7.50	4.84	6/2/15	9:16 AM		pH, TDS, Cr, ClO_4
M-148A	52.30	1800.04	47.49	None	1752.55	7.30	5.43	6/2/15	11:47 AM		pH, TDS, Cr, ClO_4

Signature Michele Brown

Print Michele Brown

TABLE 2
Well Inventory for Envirogen Groundwater Sampling
Nevada Environmental Response Trust Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan
MC-3	43.00	1725.53	34.51	None	1691.02	7.16	24.08	5/27/15	10:15 AM		pH, TDS, ClO_4
MC-6	42.00	1712.26	29.39	None	1682.87	7.21	19.10	5/27/15	11:53 AM		pH, TDS, ClO_4
MC-7	39.00	1718.76	28.25	None	1690.51	6.98	10.42	5/27/15	10:25 AM		pH, TDS, ClO_4
MC-29	50.00	1723.45	37.53	None	1685.92	7.09	26.84	5/27/15	11:10 AM		pH, TDS, ClO_4
MC-45	34.00	1710.96	29.37	None	1681.59	7.24	19.35	5/27/15	12:15 PM		pH, TDS, ClO_4
MC-50	49.00	1713.32	30.61	None	1682.71	6.94	9.76	5/27/15	12:46 PM		pH, TDS, ClO_4
MC-51	44.00	1715.88	31.94	None	1683.94	7.09	18.77	5/28/15	7:43 AM		pH, TDS, ClO_4
MC-53	38.00	1715.26	32.43	None	1682.83	7.09	16.64	5/28/15	8:12 AM		pH, TDS, Cr, ClO_4
MC-65	41.00	1705.47	35.12	None	1670.35	7.02	14.72	5/27/15	10:05 AM		pH, TDS, Cr, ClO_4
MC-69	44.00	1718.66	32.89	None	1685.77	7.21	19.20	5/27/15	11:35 AM		pH, TDS, ClO_4
MC-93	42.00	1719.26	34.18	None	1685.08	6.94	9.76	5/28/15	7:20 AM		pH, TDS, ClO_4
MC-97	41.00	1719.30	37.14	None	1682.16	6.93	16.96	5/28/15	8:36 AM		pH, TDS, ClO_4
MW-16	40.00	1,754.81	36.68	None	1718.13	7.00	13.65	5/22/15	10:25 AM		pH, TDS, Cr, ClO_4
PC-1	30.00	1599.13		None	1599.13			5/20/15	12:58 PM	DRY	pH / TDS / Cr / ClO4 / NO3 / CLO3
PC-2	30.00	1597.07	28.12	None	1568.95	7.64	5.87	5/20/15	11:58 AM		pH / TDS / Cr / ClO4 / NO3 / CLO3
PC-4	43.00	1600.42	34.18	None	1566.24	7.49	7.92	5/20/15	12:30 PM		pH / TDS / Cr / ClO4 / NO3 / CLO3
PC-21A	34.40	1724.52	32.79	None	1691.73	7.29	12.35	5/26/15	10:09 AM		pH / TDS / Cr / ClO4 / NO3 / CLO3
PC-24	30.20	1633.48	20.91	None	1612.57	7.42	10.22	5/5/15	8:49 AM		pH, TDS, Cr, ClO_4

Signature Michele Brown

Print Michele Brown

TABLE 2
Well Inventory for Envirogen Groundwater Sampling
Nevada Environmental Response Trust Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan
PC-28	20.00	1650.85	12.44	None	1638.41	7.49	3.41	5/28/15	11:33 AM		pH, TDS, Cr, ClO_4
PC-31	50.00	1657.86	11.53	None	1646.33	7.12	5.63	5/28/15	11:01 AM		pH, TDS, Cr, ClO_4
PC-40	55.20	1679.23	22.62	None	1656.61	7.11	21.93	5/26/15	11:39 AM		pH, TDS, Cr, ClO_4
PC-50	42.00	1633.46	12.55	None	1620.91	7.11	14.46	5/5/15	6:22 AM		pH, TDS, Cr, ClO_4
PC-64	19.50	1675.29	11.24	None	1664.05	7.68	5.89	5/28/15	9:59 AM		pH, TDS, Cr, ClO_4
PC-65	19.10	1675.21	11.32	None	1663.89	7.51	5.04	5/28/15	10:16 AM		pH, TDS, Cr, ClO_4
PC-66	27.30	1673.53	14.42	None	1659.11	7.52	6.75	6/2/15	7:52 AM		pH, TDS, Cr, ClO_4
PC-67	36.00	1673.82	14.86	None	1658.96	7.17	12.82	5/28/15	10:35 AM		pH, TDS, Cr, ClO_4
PC-74	50.00	1565.34	12.36	None	1552.98	7.28	5.47	5/5/15	10:22 AM		pH, TDS, ClO_4
PC-76	20.50	1565.10	11.62	None	1553.48			5/5/15	10:29 AM		DTW Only
PC-77	40.00	1566.90	7.03	None	1559.87	7.43	5.27	5/5/15	9:46 AM		pH, TDS, ClO_4
PC-78	22.00	1566.72	6.48	None	1560.24			5/5/15	9:58 AM		DTW Only
PC-79	54.05	1,573.11	17.57	None	1555.54	7.43	3.04	5/6/15	8:19 AM		pH, TDS, Cr, ClO_4
PC-80	39.20	1,573.38	17.84	None	1555.54			5/6/15	8:20 AM		DTW Only
PC-81	24.38	1,573.34	17.91	None	1555.43			5/6/15	8:21 AM		DTW Only
PC-82	67.45	1,569.10	16.85	None	1552.25	7.45	2.98	5/6/15	7:40 AM		pH / TDS / ClO4 / NO3 / CLO3
PC-83	41.06	1,569.28	16.14	None	1553.14			5/6/15	7:41 AM		DTW Only

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TABLE 2
Well Inventory for Envirogen Groundwater Sampling
Nevada Environmental Response Trust Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan
PC-87	20.52	1561.52	12.58	None	1548.94			5/6/15	8:53 AM		DTW Only
PC-88	50.50	1551.01	5.66	None	1545.35			5/6/15	10:23 AM		DTW Only
PC-96	39.50	1552.57	5.97	None	1546.60	7.33	3.59	5/5/15	10:44 AM		pH, TDS, ClO_4
PC-107	18.00	1616.94	9.95	None	1606.99	7.11	5.61	5/27/15	8:54 AM		pH, TDS, ClO_4
PC-108	48.12	1587.93	14.07	None	1573.86	7.48	3.2	5/6/15	9:28 AM		pH, TDS, ClO_4
PC-110	37.00	1594.56	16.14	None	1578.42	7.30	5.45	5/8/15	9:02 AM		pH, TDS, ClO_4
PC-111								5/8/15		DESTROYED	pH, TDS, Cr, ClO_4
PC-134A	69.70	1618.58	29.91	None	1588.67	7.50	2.56	5/7/15	9:20 AM		pH, TDS, Cr, ClO_4
PC-137	73.70	1614.83	31.14	None	1583.69	7.67	3.68	5/20/15	11:06 AM		pH, TDS, Cr, ClO_4
DUPLICATES											
DUP-6	M-10					7.29	3.31	6/3/15	12:00 PM		Cr, CLO4, TDS, pH, CRV1
DUP-7	M-12A					8.00	8.19	6/5/15	12:18 PM		Cr, CLO4, TDS, pH, CRV1, NO3
OTHER SAMPLES COLLECTED											
EB-6								5/21/15	10:15 AM		pH, TDS, CR , CLO4, CRVI
EB-7								5/22/15	10:40 AM		pH, TDS, CR , CLO4, CRVI
EB-8								5/14/15	12:15 PM		pH, TDS, CR , CLO4, CRVI

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TABLE 2
Well Inventory for Envirogen Groundwater Sampling
Nevada Environmental Response Trust Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2015

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID [1]	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER [2]	COMMENTS/Analytical Plan
EB-9								5/19/15	12:12 PM		pH, TDS, CR , CLO4, CRVI
EB-10								5/20/15	12:50 PM		pH, TDS, CR , CLO4, CRVI
EB-11								5/27/15	12:10 PM		pH, TDS, CR , CLO4, CRVI
EB-12								5/29/15	11:32 AM		pH, TDS, CR , CLO4, CRVI
EB-13								5/28/15	10:55 AM		pH, TDS, CR , CLO4, CRVI
EB-14								6/2/15	12:05 PM		pH, TDS, CR , CLO4, CRVI
EB-15								6/3/15	9:55 AM		pH, TDS, CR , CLO4, CRVI
EB-16								6/5/15	9:58 AM		pH, TDS, CR , CLO4, CRVI
E-Blank								5/21/15	2:00 PM		pH, TDS, CR , CLO4

Signature Michele Brown

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Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	1 of 2
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 2nd Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3
I-O	5-4-15	0530	NORMAL	WATER	3		4	1	1				
I-W		0538	NORMAL	WATER	3		4	1	1				
I-P		0542	NORMAL	WATER	3		4	1	1				
I-H		0549	NORMAL	WATER	3		4	1	1				
I-U		0603	NORMAL	WATER	3		4	1	1				
I-T		0610	NORMAL	WATER	3		4	1	1				
I-G		0619	NORMAL	WATER	3		4	1	1				
I-Q		0627	NORMAL	WATER	3		4	1	1				
I-F		0640	NORMAL	WATER	3		4	1	1				
I-X		0649	NORMAL	WATER	3		4	1	1				
I-N		0655	NORMAL	WATER	3		4	1	1				
I-E		0710	NORMAL	WATER	3		4	1	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-4-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	5-4-15 / 1[illegible]	[illegible]	[illegible]	[illegible]
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time
Relinquished by:	Company	Date/Time:	Received by:	Company:	Date/Time:

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Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technolog es	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	2 of 2
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX:	☑ 2 weeks			SDG No.
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
I-M	5-4-15	0916	NORMAL	WATER	3		4	1	1				
I-D		0729	NORMAL	WATER	3		4	1	1				
I-C		0739	NORMAL	WATER	3		4	1	1				
I-S		0748	NORMAL	WATER	3		4	1	1				
I-L		0759	NORMAL	WATER	3		4	1	1				
I-Y		0802	NORMAL	WATER	3		4	1	1				
I-R		0807	NORMAL	WATER	3		4	1	1				
I-B		0814	NORMAL	WATER	3		4	1	1				
I-AB		0821	NORMAL	WATER	3		4	1	1				
I-AA		0830	NORMAL	WATER	3		4	1	1				
I-AR	↓	0839	NORMAL	WATER	3		4	1	1				
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-4-15

Special Instructions/QC Requirements & Comments.

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	ENVIROGEN	5-4-15			
Relinquished by	Company	Date/Time	Received by:	Company	Date/Time
Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time

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Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No.
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below 10 DAY			
FAX:	☑ 2 weeks			SDG No.
Project Name: Envirogen- Quarter 2, ART and PC Wells pg 1	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	2540C_CALCED- TOTAL DISSOLVED	314.0_LL- PERCHLORATE	SM 4500 pH	200.7 Total Chromium
ART-1	5/4/2015	10.55	NORMAL	WATER	3		1	1	1	4
ART-2		10:57	NORMAL	WATER	3		1	1	1	4
ART-3		11:00	NORMAL	WATER	3		1	1	1	4
ART-4		11:03	NORMAL	WATER	3		1	1	1	4
ART-6		12:35	NORMAL	WATER	3		1	1	1	4
ART-7A		12:45	NORMAL	WATER	3		1	1	1	4
ART-8		11 13	NORMAL	WATER	3		1	1	1	4
ART-9		11.09	NORMAL	WATER	3		1	1	1	4
PC-99R2/R3		10:15	NORMAL	WATER	3		1	1	1	4
PC-115R		10:18	NORMAL	WATER	3		1	1	1	4
PC-116R		10 21	NORMAL	WATER	3		1	1	1	4
PC-117		10:24	NORMAL	WATER	3		1	1	1	4

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)

Signature: Michele Brown Date 5-4-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time:
Michele Brown	Envirogen	5-4-15 1400			5/4/15 1400
Relinquished by:	Company:	Date/Time:	Received by:	Company	Date/Time:
Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time:

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Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	PG 2 OF 2 COCs
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX:	☑ 2 weeks			SDG No.
Project Name: Envirogen- Quarter 2 ART and PC Wells pg 2	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	2540C_CALCED- TOTAL DISSOLVED SOLIDS	314.0_L1- PERCHLORATE	SM 4500 pH	200.7 Total Chromium
PC-118	5/4/2015	10:27	NORMAL	WATER	3		1	1	1	4
PC-119		10:30	NORMAL	WATER	3		1	1	1	4
PC-120		10:36	NORMAL	WATER	3		1	1	1	4
PC-121		10:39	NORMAL	WATER	3		1	1	1	4
PC-133		10:33	NORMAL	WATER	3		1	1	1	4
PC-150		11:16	NORMAL	WATER	3		1	1	1	4
ART-7B		11:06	NORMAL	WATER	3		1	1	1	4

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC 445.0636)
Signature: Michelle Brown Date 5-4-15

Special Instructions/QC Requirements & Comments:
NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michelle Brown	Envirogen	5-4-15/1100	[illegible]	[illegible]	[illegible]
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

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Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No.
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX:	☑ 2 weeks			SDG No.
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3	Notes
PC-123	5-5-15	0453	NORMAL	WATER	3		4	1	1					
PC-128		0517	NORMAL	WATER	4		4	1			1		6	
PC-129		0540	NORMAL	WATER	3		4	1	1					
PC-130		0611	NORMAL	WATER	4		4	1			1		6	
PC-50		0638	NORMAL	WATER	3		4	1	1					
PC-131		X	NORMAL	WATER	3		4	1	1					NO SAMPLE
PC-132		0706	NORMAL	WATER	4		4	1			1		6	
PC-124		0729	NORMAL	WATER	4		4	1			1		6	
PC-125		0755	NORMAL	WATER	3		4	1	1					
PC-126		0813	NORMAL	WATER	4		4	1			1		6	
PC-24		0850	NORMAL	WATER	3		4	1	1					
PC-127	↓	0926	NORMAL	WATER	3		4	1	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NRS445.0636)
Signature: Michele Brown Date 5-5-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	5-5-15			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	Company	Date/Time:	Received by	Company	Date/Time

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site. NERT- 510 S Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3
EB-1	5-5-15	0905	NORMAL	WATER	3		4	1		1			
PC-77	↓	1011	NORMAL	WATER	2		~~4~~	1	1				
PC-74	↓	1024	NORMAL	WATER	2		~~4~~	1	1				
PC-96	↓	1106	NORMAL	WATER	2		~~4~~	1	1				
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-5-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	5-5-15	[illegible]	[illegible]	[illegible]
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	Company	Date/Time	Received by	Company	Date/Time

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No.
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 2nd Quarter M Wells	☐ 1 week			
Site NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3
PC-131	5-6-15	0658	NORMAL	WATER	3		4	1	1				
PC-82		0811	NORMAL	WATER	3		MS X	1			1		6
PC-79		0843	NORMAL	WATER	3		4	1	1				
PC-110		0914	NORMAL	WATER	2		MS X	1	1				
PC-108		0946	NORMAL	WATER	2		MS X	1	1				
HM-2		1008	NORMAL	WATER	2		MS X	1	1				
HMW-15		1052	NORMAL	WATER	2		MS X	1	1				
HMW-14		1220	NORMAL	WATER	2		MS X	1	1				
EB-2	✓	1015	NORMAL	WATER	3		4	1		1			
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michelle Brown Date 5-6-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michelle Brown	Envirogen	5-6-15 / 1325	[illegible]	TA	5-6-15 1325
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

Irvine
17461 Derian Ave
Suite 100
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phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No
Project Name: NERT- 2nd Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
HMW-13	5-7-15	0904	NORMAL	WATER	2		X	1	1				
PC-134A	5-7-15	0940	NORMAL	WATER	3		4	1	1				
PC-135A	5-7-15	0955	NORMAL	WATER	3		4	1	1				
M-65	5-7-15	1223	NORMAL	WATER	3		4	1	1				
EB-3	5-7-15	1005	NORMAL	WATER	3		4	1		1			
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-7-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	5-7-15 1200	[illegible]	TA	5-7-15 1300
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time

Irvine
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Irvine, CA 92614
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Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No.
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 2nd Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
M-140 /	5-8-15	0615	NORMAL	WATER	3		4	1	1				
M-164 /		0720	NORMAL	WATER	3		4	1	1				
M-166 /		0814	NORMAL	WATER	3		4	1	1				
M-49 /		0835	NORMAL	WATER	3		4	1	1				
M-69 /		0858	NORMAL	WATER	3		4	1	1				
M-130 /		0949	NORMAL	WATER	3		4	1	1				
M-135 /		1005	NORMAL	WATER	3		4	1	1				
M-134 /		1027	NORMAL	WATER	3		4	1	1				
M-131 /		1050	NORMAL	WATER	3		4	1	1				
M-5MA /		1110	NORMAL	WATER	3		4	1	1				
M-126 /		1128	NORMAL	WATER	3		4	1	1				
DUP-1 /	✓	0814	NORMAL	WATER	3		4	1	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-8-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michele Brown	Envirogen	5-8-15 1227	[illegible]	TA	5-8-15 1227
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine
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Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No.
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	[x] 2 weeks			SDG No.
Project Name: NERT- 2nd Quarter M Wells	[ ] 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	[ ] 2 days			
P O # 3693	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRV1	TDS, pH, NO3	TDS, pH, CRV1, NO3	CLO3
EQ-4	5-8-15	0820	NORMAL	WATER	3		4	1		1			
FB-1	5-8-15	1130	NORMAL	WATER	3		4	1		1			
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[x] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* [ ] *Disposal By Lab* [x] *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-8-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michele Brown	Envirogen	5-8-15 1227	[illegible]	TA	5-8-15 1227
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No.
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 2nd Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
PC-97	5-14-15	0953	NORMAL	WATER	3		4	1	1				
PC-90		1015	NORMAL	WATER	4		4	1			1		1
PC-91		1035	NORMAL	WATER	4		4	1			1		1
PC-92		1050	NORMAL	WATER	3		4	1	1				
PC-94		1110	NORMAL	WATER	3		4	1	1				
PC-58		1135	NORMAL	WATER	3		4	1	1				
PC-56		1210	NORMAL	WATER	3		4	1	1				
EB-8		1215	NORMAL	WATER	3		4	1	1	1			
PC-60		1235	NORMAL	WATER	3		4	1	1				
PC-59		1301	NORMAL	WATER	3		4	1	1				
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NRS445.0636)
Signature: Michelle Brown Date 5-14-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michelle Brown	Envirogen	5/14/15 1400	[illegible]	TA	5/14/15 1400
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949 261 1022 fax 949 260 3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date: 5-18-15	COC No 1 of 1
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX	[x] 2 weeks			SDG No.
Project Name Envirogen	[ ] 1 week			
Site NERT- 510 S Fourth St, Hnederson, NV 89015	[ ] 2 days			
P O # 3693	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CLO4 314.0	pH, TDS 150.1 2540C Calcd	CR 200.7 - 200.7	pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGFM	pH, TDS, CRVI, NO3 150.1, 2540C Calcd, 218.6 ORGFM, 300 ORGFMS	pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGFMS	CLO3 300.1B 28D	pH, TDS	Total Chloride	Perchlorate
TR-1	5-18-15	1145	NORMAL	WATER	3		~~X~~	~~X~~	~~X~~					X	X	X
TR-4	5-18-15	1235	NORMAL	WATER	3									X	X	X
TR-3	5-18-15	1315	NORMAL	WATER	3									X	X	X
TR-5	5-18-15	1355	NORMAL	WATER	3									X	X	X
TR-6	5-18-15	1440	NORMAL	WATER	3									X	X	X
TR-7	5-18-15	1535	NORMAL	WATER	3									X	X	X
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
														14	1	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[x] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* *Disposal By Lab* [ ] *Archive For* [x] *Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: _____ Date 5-18-15

Special Instructions/QC Requirements & Comments:

~~NEDS LEVEL 4 REPORT~~

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	STEWART ENV	5-18-15 / 0600	[signature]	TA	5-18-15 / 1100
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

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17461 Derian Ave
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Irvine, CA 92614
phone 949 261 1022 fax 949 260 3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX:	☑ 2 weeks			SDG No.
Project Name: Envirogen	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CLO4 314.0	pH, TDS 150.1 2540C Calcd	CR 200.7 - 200.7	pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGFM	ph, TDS, CRVI, NO3 150.1, 2540C Calcd, 218.6 ORGFM, 300 ORGFMS	pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGFMS	CLO3 300.1B 28D
PC-62	5-19-15	0849	NORMAL	WATER	3		1	1	4				
PC-68		0918	NORMAL	WATER	3		1	1	4				
PC-86		0942	NORMAL	WATER	4		1		4			1	6
PC22		1019	NORMAL	WATER	3		1	1	4				
PC-53		1041	NORMAL	WATER	3		1	1	4				
MW-K5		1102	NORMAL	WATER	4		1		4			1	6
ARP-7		1122	NORMAL	WATER	3		1	1	4				
ARP-6B		1137	NORMAL	WATER	3		1	1	4				
ARP-5A		1151	NORMAL	WATER	3		1	1	4				
ARP-4A		1206	NORMAL	WATER	3		1	1	4				
EB-9		1212	NORMAL	WATER	3		1		4	1			
MW-K4	↓	1230	NORMAL	WATER	3		1	1	4				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* *Disposal By Lab* ☐ *Archive For 1 Months* ☑

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action. (NAC445.0636)
Signature: Michelle Brown Date 5-19-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michelle Brown	Envirogen	5-19-15			
Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time
Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time

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phone 949 261 1022 fax 949 260 3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX:	[x] 2 weeks			SDG No.
Project Name: Envirogen	[ ] 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	[ ] 2 days			
P O # 3693	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CLO4 314.0	pH, TDS 150.1 2540C Calcd	CR 200.7 - 200.7	pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGFM	pH, TDS, CRVI, NO3 150.1, 2540C Calcd, 218.6 ORGFM, 300 ORGFMS	pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGFMS	CLO3 300.1B 28D
ARP-3A ✓	5-19-15	1245	NORMAL	WATER	3		1	1	4				
ARP-2A ✓	5-19-15	1309	NORMAL	WATER	3		1	1	4				
			NORMAL	WATER									
			NORMAL	WATER									
			NORMAL	WATER									
			NORMAL	WATER									
			NORMAL	WATER									
			NORMAL	WATER									
			NORMAL	WATER									
			NORMAL	WATER									
			NORMAL	WATER									
			NORMAL	WATER									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[x] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritan* *Poison B* [ ] *Unknown* [ ]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* *Disposal By Lab* [ ] *Archive For* [x] *1 months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michelle Brown Date 5-19-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michelle Brown	Envirogen	5-19-15 1400	[illegible]	TA	5/19/15 1400
Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time:
Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949 261 1022 fax 949 260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date: 5-19-15	COC No 1 of 1
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX	☐ 2 weeks			SDG No
Project Name Envirogen	☐ 1 week			
Site NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CLO4 314.0	pH, TDS 150.1 2540C Calcd	CR 200.7 - 200.7	pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGFM	pb, TDS, CRVI, NO3 150.1, 2540C Calcd, 218.6 ORGFM, 300 ORGFMS	pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGFMS	CLO3 300.1B 28D	pH, TDS, Perchlorate		
TR-8	5-19-15	0709	NORMAL	WATER	3		~~X~~	~~X~~	~~X~~					X	X	X
M-120	5-19-15	1151	NORMAL	WATER	3									X	X	X
M-118	5-19-15	1300	NORMAL	WATER	3									X	X	X
M-121	5-19-15	1348	NORMAL	WATER	3									X	X	X
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other														1	4	1

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☒

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* *Disposal By Lab* ☒ *Archive For* ☑ *Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (PC 148.0636)
Signature: _____ Date 5-19-15

Special Instructions/QC Requirements & Comments.

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Stewart Env.	5-19-15/1517	[signature]	TA	5/19/15 1517
Relinquished by:	Company:	Date/Time:	Received by	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by	Company:	Date/Time:

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17461 Derian Ave
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Irvine, CA 92614
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Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date: 5-20-15	COC No 1 of 1
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W): WORK			
702-371-9307	TAT if different from Below			
FAX	[x] 2 weeks			SDG No
Project Name: Envirogen	[ ] 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	[ ] 2 days			
P O # 3693	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CLO4 314.0	pH, TDS 150.1 2540C Calcd	CR 200.7 - 200.7	pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGFM	pH, TDS, CRVI, NO3 150.1, 2540C Calcd, 218.6 ORGFM, 300 ORGFMS	pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGFMS	CLO3 300.1B 28D	pH, TDS	TDS, pH, Hardness	Perchlorate
M-150	5-20-15	1335	NORMAL	WATER	3									X	X	X
M-154	5-20-15	1255	NORMAL	WATER	3									X	X	X
M-161	5-20-15	8:00	NORMAL	WATER	3									X	X	X
M-162	5-20-15	9:00	NORMAL	WATER	3									X	X	X
M-163	5-20-15	11:00	NORMAL	WATER	3									X	X	X
M-164	5-20-15	9:55	NORMAL	WATER	3									X	X	X
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
			NORMAL	WATER												
														14	11	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[x] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [x]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* *Disposal By Lab* [x] *Archive For* [x] *Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC 445.0636)
Signature: _____ Date 5-20-15

Special Instructions/QC Requirements & Comments

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature] / [signature]	STEWART ENV	5-20-15/1405	[signature]	TA	5-20-15/1405
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949 260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below ____			
FAX:	☑ 2 weeks			SDG No.
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
PC-144	5-20-15	0859	NORMAL	WATER	3		4	1	1				
PC-101R		0927	NORMAL	WATER	3		4	1	1				
PC-103		0951	NORMAL	WATER	4		4	1			1		6
PC-98R		1036	NORMAL	WATER	3		4	1	1				
PC-145		1059	NORMAL	WATER	3		4	1	1				
PC-137		1128	NORMAL	WATER	3		4	1	1				
PC-136		1141	NORMAL	WATER	3		4	1	1				
PC-2		1204	NORMAL	WATER	4		4	1			1		6
PC-4		1245	NORMAL	WATER	4		4	1			1		6
HMW-16		1331	NORMAL	WATER	2		~~4~~ 2	1	1				
EB-10		1250	NORMAL	WATER	3		4	1		1			
DUP-1		0859	NORMAL	WATER	3		4	1	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC 445.0636)
Signature: Michelle Brown Date 5-20-15

Special Instructions/QC Requirements & Comments.

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michelle Brown	Envirogen	5-20-15			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

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Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX	[x] 2 weeks			SDG No
Project Name: Envirogen	[ ] 1 week			
Site NERT- 510 S. Fourth St., Hinederson, NV 89015	[ ] 2 days			
P O # 3693	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CLO4 314.0	pH, TDS 150.1 2540C Calcd	CR 200.7 - 200.7	pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGFM	pH, TDS, CRVI, NO3 150.1, 2540C Calcd, 218.6 ORGFM, 300 ORGFMS	pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGFMS	CLO3 300.1B 28D											
TR-2	5-21-15	1330	NORMAL	WATER	3		X	X	X															
TR-11	5-21-15	940	NORMAL	WATER	3		X	X	X															
TR-12	5-21-15	1138	NORMAL	WATER	3		X	X	X															
M-152	5-21-15	7:50	NORMAL	WATER	3		X	X	X															
M-156	5-21-15	8:37	NORMAL	WATER	3		X	X	X															
E. Blank	5-21-15	1400	NORMAL	WATER	3		X	X	X															
			NORMAL	WATER																				
			NORMAL	WATER																				
			NORMAL	WATER																				
			NORMAL	WATER																				
			NORMAL	WATER																				
			NORMAL	WATER																				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
[x] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* *Disposal By Lab* [ ] *Archive For* [x] *Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.8636)
Signature: [signature] Date 5-21-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Envirogen	5-21-15/1420	[signature]		5/21/15 1420
Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time
Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time

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17461 Derian Ave
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phone 949.261 1022 fax 949 260 3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX	☑ 2 weeks			SDG No
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site NERT- 510 S. Fourth St. Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3												
PC-148	5-21-15	0859	NORMAL	WATER	3		4	1	1																
PC-149		0938	NORMAL	WATER	3		4	1	1																
PC-143		1006	NORMAL	WATER	3		4	1	1																
M-70		1253	NORMAL	WATER	3		4	1	1																
M-71		1310	NORMAL	WATER	3		4	1	1																
M-72		1323	NORMAL	WATER	3		4	1	1																
M-22A		1338	NORMAL	WATER	3		4	1	1																
M-38	✓	1355	NORMAL	WATER	4		4	1				1	1												
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	
EB-6	5-21-15	1015	NORMAL	WATER	3		4	1		1															
DUP-2	5-21-15	0859	NORMAL	WATER	3		4	1	1																

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action. (NAC445.0636)
Signature: Michele Brown Date 5-21-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	5-21-15	[illegible]	[illegible]	5-21-15 [illegible]
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

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17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 2nd Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
M-99	5-22-15	0843	NORMAL	WATER	3		4	1	1				
M-14A		1012	NORMAL	WATER	3		4	1	1				
MW-16		1033	NORMAL	WATER	3		4	1	1				
M-25		1135	NORMAL	WATER	4		4	1			1		6
M-39		1203	NORMAL	WATER	4		4	1				1	6
M-92		1250	NORMAL	WATER	3		4	1	1				
M-97		1308	NORMAL	WATER	3		4	1	1				
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
DUP-3	5-22-15	1135	NORMAL	WATER	4		4	1			1		6
EB-7	5-22-15	1040	NORMAL	WATER	3		4	1		1			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-22-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	5-22-15	[illegible]	Intelliquick	5-22-15 1400
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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17461 Derian Ave
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Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: Envirogen Quarterly RCRA	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CLO4 314.0	Cr, B, Iron, Mn, Na 200.7 - 200.7	300_ORGFM_28D - 300; Cl/SO4, 150.1-150; pH, 2540C_Calcd - 2540; TDS, 2510B - 2510; Conductance	5310C - 5310C TOC	9020B- 9020, TOX	420.1 - 420, Phenols, Total	
H-28A	—	—	NORMAL	WATER	8		1	4	1	6	3	3	NO SAMPLE
M-6A	—	—	NORMAL	WATER	8		1	4	1	6	3	3	NO SAMPLE
M-5A ✓	5-22-15	1108	NORMAL	WATER	8		1	4	1	6	3	3	
M-7B ✓	5-22-15	0807	NORMAL	WATER	8		1	4	1	6	3	3	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* *Disposal By Lab* ☐ *Archive For* ☑ *Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-22-15

Special Instructions/QC Requirements & Comments:
NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michele Brown	Envirogen	5-22-15	[illegible]	[illegible]	5-22-15 1400
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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17461 Derian Ave
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Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W): WORK			
702-371-9307	TAT if different from Below			
FAX:	[x] 2 weeks			SDG No.
Project Name: Envirogen	[ ] 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	[ ] 2 days			
P O # 3693	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CLO4 314.0	pH, TDS 150.1 2540C Calcd	CR 200.7 - 200.7	pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGFM	pH, TDS, CRVI, NO3 150.1, 2540C Calcd, 218.6 ORGFM, 300 ORGFMS	pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGFMS	CLO3 300.1B 28D											
M-155	5-26-15	1333	NORMAL	WATER	3		X	X	X															
M-151	5-26-15	1243	NORMAL	WATER	3		X	X	X															
M-181	5-26-15	1157	NORMAL	WATER	3		X	X	X															
M-182	5-26-15	1130	NORMAL	WATER	3		X	X	X															
M-165	5-26-15	10:48	NORMAL	WATER	3		X	X	X															
M-186	5-26-15	10:00	NORMAL	WATER	3		X	X	X															
M-153	5-26-15	9:20	NORMAL	WATER	3		X	X	X															
M-149	5-26-15	8:50	NORMAL	WATER	3		X	X	X															
M-117	5-26-15	6:25	NORMAL	WATER	3		X	X	X															
			NORMAL	WATER																				
			NORMAL	WATER																				
			NORMAL	WATER																				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[x] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* *Disposal By Lab* [ ] *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (SAC 115.0630)
Signature: _____ Date 5-26-15

Special Instructions/QC Requirements & Comments

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Stewart Env	5-26-15/14:40	[signature]	TA	5/26/15 1440
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949 260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 2nd Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
PC-54 ✓	5-26-15	0929	NORMAL	WATER	3		4	1	1				
M-43A ✓		0957	NORMAL	WATER	4		4	1			1		6
PC-21A ✓		1014	NORMAL	WATER	4		4	1			1		6
PC-M1 ✓		1057	NORMAL	WATER	3		4	1	1				
PC-M2 ✓		1115	NORMAL	WATER	3		4	1	1				
PC-M3 ✓		1133	NORMAL	WATER	3		4	1	1				
PC-40 ✓		1158	NORMAL	WATER	3		4	1	1				
H-58A ✓		1245	NORMAL	WATER	3		4	1	1				
M-95 ✓		1308	NORMAL	WATER	3		4	1		1			
M-44 ✓		1325	NORMAL	WATER	3		4	1		1			
DUP-4 ✓		1325	NORMAL	WATER	3		4	1		1			
EB-5 ✓	↓	1137	NORMAL	WATER	3		4	1		1			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-26-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	5-26-15	[illegible]	[illegible]	5-26-15 2:31
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949 261 1022 fax 949 260 3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX	☑ 2 weeks			SDG No
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site NERT- 510 S Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3	Comments
PC-55	5-27-15	0945	NORMAL	WATER	3		4	1	1					
PC-18		0805	NORMAL	WATER	3		4	1	1					
ARP-1		0825	NORMAL	WATER	3		4	1	1					
PC-142		0841	NORMAL	WATER	3		4	1	1					
PC-107		0908	NORMAL	WATER	2		MB	1	1					
PC-37		0942	NORMAL	WATER	3		4	1	1					
4-48		—	NORMAL	WATER	3		4	1	1					NO SAMPLE
MC-65		1013	NORMAL	WATER	3		4	1	1					
MC-7		1037	NORMAL	WATER	2		MB	1	1					
MC-3		1053	NORMAL	WATER	2		MB	1	1					
MC-29		1122	NORMAL	WATER	2		MB	1	1					
MC-69		1143	NORMAL	WATER	2		MB	1	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-27-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	5-27-15	[illegible]	Intelligent	5-27-15 1400
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX	[x] 2 weeks			SDG No
Project Name: NERT- 2nd Quarter M Wells	[ ] 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	[ ] 2 days			
P O # 3693	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
MC-6 ✓	5-27-15	1205	NORMAL	WATER	2		MB X	1	1				
EB-11 ✓		1210	NORMAL	WATER	3		4	1		1			
MC-45 ✓		1224	NORMAL	WATER	2		MB X	1	1				
FB-2 ✓		1230	NORMAL	WATER	3		4	1		1			
MC-50 ✓		1258	NORMAL	WATER	2		MB X	1	1	MB			
M-23 ✓		1314	NORMAL	WATER	4		4	1			1		6
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[x] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* [ ] *Disposal By Lab* [x] *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC 445.0636)
Signature: Michele Brown Date 5-27-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	5-27-15	[illegible]	Intelligenc	5-27-15 1400
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

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Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX	☑ 2 weeks			SDG No.
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site. NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
MC-93 ✓	5-28-15	0731	NORMAL	WATER	2	MS X		1	1				
MC-51 ✓		0755	NORMAL	WATER	2	MS X		1	1				
MC-53 ✓		0821	NORMAL	WATER	3		4	1	1				
MC-97 ✓		0843	NORMAL	WATER	2	MS X		1	1				
PC-64 ✓		1006	NORMAL	WATER	3		4	1	1				
PC-65 ✓		1023	NORMAL	WATER	3		4	1	1				
PC-67 ✓		1048	NORMAL	WATER	3		4	1	1				
EB-13 ✓		1055	NORMAL	WATER	3		4	1		1			
PC-31 ✓		1120	NORMAL	WATER	3		4	1	1				
PC-28 ✓		1140	NORMAL	WATER	3		4	1	1				
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 5-28-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	5-28-15	[illegible]	Intelligent	5-28-15 1400
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

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17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	[x] 2 weeks			SDG No.
Project Name: Envirogen Quarterly RCRA	[ ] 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	[ ] 2 days			
P O # 3693	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CLO4 314.0	Cr, B, Iron, Mn, Na 200.7 - 200.7	300_ORGFM_28D - 300: Cl/SO4, 150.1-150: pH, 2540C_Calcd - 2540: TDS, 2510B - 2510: Conductance	5310C - 5310C TOC	9020B- 9020, TOX	420.1 - 420, Phenols, Total	
H-28A	5-28-15	0925	NORMAL	WATER	8		1	4	1	6	3	3	
M-6A	5-28-15	0910	NORMAL	WATER	8		1	4	1	6	3	3	
M-5A	—	—	NORMAL	WATER	8		1	4	1	6	3	3	NO SAMPLE
M-7B	—	—	NORMAL	WATER	8		1	4	1	6	3	3	NO SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[x] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* *Disposal By Lab* [ ] *Archive For* [x] *months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636).
Signature: Michele Brown Date 5-28-15

Special Instructions/QC Requirements & Comments:
NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michele Brown	Envirogen	5-28-15	[illegible]	[illegible]	5-28-15 [illegible]
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949 261 1022 fax 949 260 3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX	☑ 2 weeks			SDG No.
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
M-81A	5-29-15	0810	NORMAL	WATER	3		4	1	1				
M-80		0831	NORMAL	WATER	3		4	1	1				
M-83		0848	NORMAL	WATER	3		4	1	1				
I-V		0857	NORMAL	WATER	3		4	1	1				
I-I		0906	NORMAL	WATER	3		4	1	1				
I-Z		0909	NORMAL	WATER	3		4	1	1				
I-J		0914	NORMAL	WATER	3		4	1	1				
I-K		0921	NORMAL	WATER	3		4	1	1				
I-AC		0927	NORMAL	WATER	3		4	1	1				
I-AD		0934	NORMAL	WATER	3		4	1	1				
M-68		0950	NORMAL	WATER	3		4	1	1				
M-67		1001	NORMAL	WATER	3		4	1	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michelle Brown Date 5-29-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michelle Brown	Envirogen	5-29-15 / 1[illegible]	[illegible]	[illegible]	[illegible]
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

Irvine
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Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 2nd Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3
M-M3 ✓	5-29-15	1028	NORMAL	WATER	3		4	1	1				
M-M4 ✓		1050	NORMAL	WATER	3		4	1	1				
M-19 ✓		1112	NORMAL	WATER	3		4	1	1				
M-35 ✓		1125	NORMAL	WATER	3		4	1	1				
EB-12 ✓		1132	NORMAL	WATER	3		4	1		1			
M-2A ✓		1142	NORMAL	WATER	3		4	1	1				
M-M5 ✓		1158	NORMAL	WATER	3		4	1	1				
M-M6 ✓		1220	NORMAL	WATER	3		4	1	1				
M-115 ✓		1236	NORMAL	WATER	3		4	1	1				
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michael Brown Date 5-29-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time
Michael Brown	Envirogen	5-29-15 / 1700	[illegible]	TA	5/29/15 1700
Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time
Relinquished by:	Company	Date/Time:	Received by:	Company	Date/Time

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949 261 1022 fax 949 260 3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	1 of 2
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX	☑ 2 weeks			SDG No
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site NERT- 510 S Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
AA-01	6-2-15	0735	NORMAL	WATER	2		4	1	1				
PC-66		0800	NORMAL	WATER	3		4	1	1				
M-144		0841	NORMAL	WATER	3		4	1	1				
M-146		0903	NORMAL	WATER	3		4	1	1				
M-149		0923	NORMAL	WATER	3		4	1	1				
M-142		0952	NORMAL	WATER	3		4	1	1				
M-145		1026	NORMAL	WATER	3		4	1	1				
M-139		1106	NORMAL	WATER	3		4	1	1				
M-141		1159	NORMAL	WATER	3		4	1	1				
M-148A		1138	NORMAL	WATER	3		4	1	1				
EB-14		1205	NORMAL	WATER	3		4	1		1			
M-52		1218	NORMAL	WATER	3		4	1	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michelle Brown Date 6-2-15

Special Instructions/QC Requirements & Comments

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michelle Brown	Envirogen	6-2-15 1525	[illegible]	TA	6-2-15 1525
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

Irvine
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Irvine, CA 92614
phone 949 261 1022 fax 949 260 3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	2 of 2
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX	☑ 2 weeks			SDG No
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3												
M-31A	6-2-15	1237	NORMAL	WATER	3		4	1	1																
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	
			NORMAL	WATER			4	1																	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michael Brown Date 6-2-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michael Brown	Envirogen	6-2-15 / 1237	[illegible]	TA	6/2/15 1237
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949 260 3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- 2nd Quarter M Wells	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	ClO4	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	ClO3
M-125	6-3-15	0918	NORMAL	WATER	3		4	1	1				
M-123		0949	NORMAL	WATER	3		4	1	1				
M-125		0816	NORMAL	WATER	3		4	1	1				
M-124		0840	NORMAL	WATER	3		4	1	1				
M 137		0923	NORMAL	WATER	3		4	1	1				
M-138		0943	NORMAL	WATER	3		4	1	1				
DUP-5		0840	NORMAL	WATER	3		4	1	1				
DUP-6		1200	NORMAL	WATER	3		4	1		1			
EB-15	✓	0955	NORMAL	WATER	3		4	1		1			
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)

Signature: Michelle Brown Date 6-3-15

Special Instructions/QC Requirements & Comments.

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michelle Brown	Envirogen	6-3-15			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time

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17461 Derian Ave
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Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	of COCs
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below _____			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- Quarterly M-10	☐ 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	200.7 - B, Cr, Iron, Mn	SM4500NH3_D - Ammonia, TIN	300.1B_28D - Chlorate	314.0 Perchlorate	300_ORGFMS - (MOD) Nitate-Nitrite as N 300_ORGFM_28d - Chloride 150.1 - pH 2540C_Calcd - Total Dissolved Solids 218.6_ORGFM- Chromium, hexavalent
M-10	6/3/2015	12:00	NORMAL	WATER	6		4	3	6	1	1

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action.(NAC445.0636)
Signature: Michelle Ann Brown Date 6-3-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michelle Brown	Envirogen	6-3-15			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

11 Y 3330
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX:	☑ 2 weeks			SDG No.
Project Name NERT- 2nd Quarter M Wells	☐ 1 week			
Site. NERT- 510 S Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TOTAL CHROME	CLO3	TDS, pH	TDS, pH, CRVI	TDS, pH, NO3	TDS, pH, CRVI, NO3	CLO3
M-77	6-5-15	0708	NORMAL	WATER	3		4	1	1				
M-132		0837	NORMAL	WATER	3		4	1	1				
M-133		0755	NORMAL	WATER	3		4	1	1				
M-21		0853	NORMAL	WATER	3		4	1	1				
M-13		0946	NORMAL	WATER	4		4	1			1		6
M-12A		1218	NORMAL	WATER	4		4	1				1	6
M-11		1305	NORMAL	WATER	4		4	1				1	6
EB-16		0958	NORMAL	WATER	3		4	1		1			
DUP-7		1218	NORMAL	WATER	4		4	1				1	6
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					
			NORMAL	WATER			4	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)

Signature: Michele Brown Date 6-5-15

Special Instructions/QC Requirements & Comments.

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	6-5-15 1330			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date: 6-10-15	COC No:
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Patty Mata	Carrier:	
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX.	[x] 2 weeks			SDG No.
Project Name: Envirogen	[ ] 1 week			
Site: NERT- 510 S. Fourth St., Hnederson, NV 89015	[ ] 2 days			
P O # 3693	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CLO4 314.0	pH, TDS 150.1 2540C Calcd	CR 200.7 - 200.7	pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGFM	ph, TDS, CRVI, NO3 150.1, 2540C Calcd, 218.6 ORGFM, 300 ORGFMS	pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGFMS	CLO3 300.1B 28D
TR-9	6-10-15	12:40	NORMAL	WATER	3		1	1	4				
TR-10	6-10-15	11:58	NORMAL	WATER	3		1	1	4				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[x] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* *Disposal By Lab* [ ] *Archive For 1 months* [x]

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: _____ **Date** 6-10-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Stewart	6-10-15 13:50		TA	6/10/15 1350
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Wendy Prescott	Site Contact: Wendy Prescott	Date:	COC No
Envirogen Technologies	Tel/Fax: 702-371-9307	Lab Contact: Sushmitha Reddy	Carrier:	1 of 1
510 South Fourth Street	Analysis Turnaround Time			Job No.
Henderson, NV 89015	Calendar (C) or Work Days (W) WORK			
702-371-9307	TAT if different from Below			
FAX:	☑ 2 weeks			SDG No.
Project Name: NERT- ~~Monthly 2nd Monday~~ Quarterly Monitoring	☐ 1 week			
Site: NERT- 510 S Fourth St., Hnederson, NV 89015	☐ 2 days			
P O # 3693	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	2540C_Calcd- Total Dissolved Solids	314.0 Perchlorate	300.1 Total Cl	Special Instructions/QC Requirements & Comments
M-33	7-14-15	0620	NORMAL	WATER	3		1	1	4	Field pH= 7.22
M-32	7-14-15	0643	NORMAL	WATER	3		1	1	4	Field pH= 7.23
			NORMAL	WATER	2		1	1		
			NORMAL	WATER	2		1	1		
			NORMAL	WATER	2		1	1		
			NORMAL	WATER	2		1	1		
			NORMAL	WATER	2		1	1		
			NORMAL	WATER	2		1	1		
			NORMAL	WATER	2		1	1		
			NORMAL	WATER	2		1	1		
			NORMAL	WATER	2		1	1		
			NORMAL	WATER	2		1	1		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☑ *Archive For 1 Months*

I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Michele Brown Date 7-14-15

Special Instructions/QC Requirements & Comments:

NEEDS LEVEL 4 REPORT

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Michele Brown	Envirogen	7-14-15 1405	[illegible]	TA	7/14/15 1405
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

12-4

Bottle Order Information

Bottle Order: *NERT - Quarterly 2nd RCRA Wells*
Bottle Order #: *4309*
Request From Client: *1/2/2015*
Date Order Posted: *3/22/2013 2:43:14PM*
Order Status: *In Process*
Prepared By: *Sushmitha Reddy*
Deliver By Date: ***4/20/2015 11:59:00PM***
Lab Project Number: *44008228*

Order Completion Information

Creator: *Sushmitha Reddy*
Filled by:
Sent Date:
Sent Via:
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
4	2	8	Plastic 500ml - unpreserved	None	300_ORGFM_28D - 300: Cl/SO4	Water	Normal		
					150.1 - 150: pH	Water	Normal		
					2540C_Calcd - 2540: TDS	Water	Normal		
					2510B - 2510: Conductance	Water	Normal		
4	1	4	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - 200.7: B, Cr, Iron, Mn, Na	Water	Normal		
4	1	4	Amber Glass 500mL - Sulfuric Acid	Sulfuric Acid	420.1 - 420: Phenols, Total	Water	Normal		
4	1	4	Amber Glass 250ml - H3PO4	Phosphoric Acid	5310C - 5310C: TOC	Water	Normal		
4	2	8	Amber Glass 500mL - Sulfuric Acid	Sulfuric Acid	9020B - 9020: TOX	Water	Normal		
4	1	4	Plastic 125mL - sterile	None		Water	Normal	CLO4	

Notes to Field Staff:

Health and Safety Notes:

Preservative	Comment
Nitric Acid	CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.
Phosphoric Acid	CAUTION! CONTAINS 1:1 PHOSPHORIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.
Sulfuric Acid	CAUTION! CONTAINS 1:1 SULFURIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Relinquished By	Company	Date	Time	Received By	Company	Seal #:
						Seal #:
						Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #:
						Seal #:
						Seal #:

Please notify us immediately if an error is found in shipment

Bottle Order Information

Bottle Order: *NERT - Quarterly 2nd Wells*
Bottle Order #: *4310*
Request From Client: *1/2/2015*
Date Order Posted: *3/22/2013 2:49:32PM*
Order Status: *Shipped*
Prepared By: *Sushmitha Reddy*
Deliver By Date: ***4/20/2015 11:59:00PM***
Lab Project Number: *44008228*

Order Completion Information

Creator: *Sushmitha Reddy*
Filled by: *Process Server (DO NOT DELETE)*
Sent Date: *4/21/2015 12:00:00AM*
Sent Via: *FedEx Ground*
Tracking #: *312947730112264, 312947730112271, 312947730112288, 312947730112295, 312947730112301, 312947730112318,*

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
220	1	220	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - 200.7: Chromium	Water	Normal		
220	1	220	Plastic 500ml - unpreserved	None	150.1 - 150: pH	Water	Normal		
					2540C_Calcd - 2540: TDS	Water	Normal		
220	1	220	Plastic 125mL - sterile	None		Water	Normal	CLO4	
27	1	27	Plastic 500ml - unpreserved	None	150.1 - pH	Water	Normal		
					2540C_Calcd - Total Dissolved Solids	Water	Normal		
27	1	27	Plastic 125mL - sterile	None		Water	Normal	CLO4	
5	1	5	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - Chromium	Water	Normal		
5	1	5	Plastic 500ml - unpreserved	None	150.1 - pH	Water	Normal		
					2540C_Calcd - Total Dissolved Solids	Water	Normal		
					218.6_ORGFM - Chromium, hexavalent	Water	Normal		
					300_ORGFMS - Nitrate-N	Water	Normal		
5	1	5	Plastic 125mL - ethylene diamine	Ethylene Diamine	300.1B_28D - Chlorate	Water	Normal		
5	1	5	Plastic 125mL - sterile	None		Water	Normal	CLO4	
4	1	4	Plastic 500ml - unpreserved	None	150.1 - pH	Water	Normal		
					2540C_Calcd - Total Dissolved Solids	Water	Normal		
					218.6_ORGFM - Chromium, hexavalent	Water	Normal		
4	1	4	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - Chromium	Water	Normal		
4	1	4	Plastic 125mL - sterile	None		Water	Normal	CLO4	

Please notify us immediately if an error is found in shipment

5	1	5	Plastic 500ml - unpreserved	None	150.1 - pH 2540C_Calcd - Total Dissolved Solids 218.6_ORGFM - Chromium, hexavalent 300_ORGFMS - Nitrate-N	Water Water Water Water	Normal Normal Normal Normal		
5	1	5	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - Chromium	Water	Normal		
5	1	5	Plastic 125mL - ethylene diamine	Ethylene Diamine	300.1B_28D - Chlorate	Water	Normal		
5	1	5	Plastic 125mL - sterile	None		Water	Normal	CLO4	
22	1	22	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - Chromium	Water	Normal		
22	1	22	Plastic 500ml - unpreserved	None	150.1 - pH 2540C_Calcd - Total Dissolved Solids 300_ORGFMS - Nitrate-N	Water Water Water	Normal Normal Normal		
22	1	22	Plastic 125mL - ethylene diamine	Ethylene Diamine	300.1B_28D - Chlorate	Water	Normal		
22	1	22	Plastic 125mL - sterile	None		Water	Normal	CLO4	
9	1	9	Plastic 500ml - unpreserved	None	150.1 - pH 2540C_Calcd - Total Dissolved Solids 218.6_ORGFM - Chromium, hexavalent	Water Water Water	Normal Normal Normal		
9	1	9	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - Chromium	Water	Normal		
9	1	9	Plastic 125mL - sterile	None		Water	Normal	CLO4	
1	1	1	Plastic 500ml - unpreserved	None	150.1 - pH 2540C_Calcd - Total Dissolved Solids 300_ORGFMS - Nitrate-N	Water Water Water	Normal Normal Normal		
1	1	1	Plastic 125mL - ethylene diamine	Ethylene Diamine	300.1B_28D - Chlorate	Water	Normal		
1	1	1	Plastic 125mL - sterile	None		Water	Normal	CLO4	
15	1	15	Plastic 500ml - unpreserved	None	314.0_LL - Perchlorate	Water	Field Blank		

Notes to Field Staff:

Health and Safety Notes:

Preservative	Comment
Ethylene Diamine	CAUTION! CORROSIVE! CONTAINS ETYLENEDIAMINE. Harmful if inhaled. Use adequate ventilation. Harmful in contact with skin and eyes. If contact is made, FLUSH IMMEDIATELY with water.

Please notify us immediately if an error is found in shipment

Bottle Order Information

Bottle Order: *NERT - Quarterly M-10*
Bottle Order #: *4296*
Request From Client: *1/2/2015*
Date Order Posted: *3/21/2013 12:00:12PM*
Order Status: *Shipped*
Prepared By: *Sushmitha Reddy*
Deliver By Date: ***6/29/2015 11:59:00PM***
Lab Project Number: *44008210*

Order Completion Information

Creator: *Sushmitha Reddy*
Filled by: *Process Server (DO NOT DELETE)*
Sent Date: *6/29/2015 12:00:00AM*
Sent Via: *FedEx Ground*
Tracking #: *312947730117429*

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
1	1	1	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - B, Cr, Iron, Mn	Water	Normal		
1	1	1	Plastic 500ml - with Sulfuric Acid	Sulfuric Acid	SM4500NH3_D - Ammonia, TIN	Water	Normal		
1	1	1	Plastic 125mL - ethylene diamine	Ethylene Diamine	300.1B_28D - Chlorate	Water	Normal		
1	2	2	Plastic 500ml - unpreserved	None	300_ORGFMS - (MOD) Nitrate-Nitrite as N	Water	Normal		
					300_ORGFM_28D - Chloride	Water	Normal		
					150.1 - pH	Water	Normal		
					2540C_Calcd - Total Dissolved Solids	Water	Normal		
					218.6_ORGFM - Chromium, hexavalent	Water	Normal		
1	1	1	Plastic 125mL - sterile	None		Water	Normal	CLO4	

Notes to Field Staff:

Health and Safety Notes:

Preservative	Comment
Ethylene Diamine	CAUTION! CORROSIVE! CONTAINS ETYLENEDIAMINE. Harmful if inhaled. Use adequate ventilation. Harmful in contact with skin and eyes. If contact is made, FLUSH IMMEDIATELY with water.
Nitric Acid	CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.
Sulfuric Acid	CAUTION! CONTAINS 1:1 SULFURIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Please notify us immediately if an error is found in shipment

ENVIROGEN
TECHNOLOGIES

Groundwater Field Log

This Section Contains:

- Water Sampling Field Logs

Warm springs + Bid Hwy

Water Sampling Field Log

Well No.: AA-01

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: sunny, clear

Well Information:

Total Well Depth: 51.50 feet Time: 0722

Depth to Water: 49.08 feet

Height of Water Column (L): 2.42 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = ~~3.8~~ 1.57 gal. * x 3 5gal

Well Diameter (circle one): 2-in. 4-in. 6-in

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0729	-----	-----	-----	-----	
0731	2 gal	7.26	5.35 mS/cm	26.3 °C	slightly cloudy
0733	4 gal	7.15	5.03 mS/cm	25.4 °C	clear
0734	5 gal	7.23	4.99 mS/cm	25.6 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0735 Time Finished: 0735

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen 22'

Water Sampling Field Log

Well No.: AA-11

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 31.40 feet Time: 0700

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DRY
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 9'

Water Sampling Field Log

Well No.: ARP-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-27-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, partially cloudy

Well Information:

Total Well Depth: 44.2 feet Time: 0813

Depth to Water: 24.03 feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): 20.17 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 3.22 gal.	* 3	= 10 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0815	-----	-----	-----	-----	
0817	3 gal	7.56	6.89 mS/cm	26.2 °C	clear
0820	6 gal	7.41	6.73 mS/cm	25.5 °C	clear
0824	10 gal	7.47	6.68 mS/cm	25.5 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 0825 Time Finished: 0825

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: screen 14-44'

Water Sampling Field Log

Well No.: ARP-2A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 54.0 feet Time: 1253

Depth to Water: 25.48 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L)		Well Volume (WV)	Purge Factor	Purge Volume
28.52 feet	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= 4.56 gal.	* 3	= 14 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1255	-----	-----	-----	-----	
1259	5 gal	7.46	8.27 mS/cm	26.1 °C	clear
1304	10 gal	7.44	8.35 mS/cm	26.1 °C	clear
1307	14 gal	7.50	8.36 mS/cm	26.1 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1309 Time Finished: 1309

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Top of screen 23.7'

Closing QC 7.0

Water Sampling Field Log

Well No.: ARP-3A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 41.0 feet Time: 1235

Depth to Water: 26.92 feet

Height of Water Column (L): 14.08 feet

Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 2.25 gal.	* 3	= 7 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1236	-----	-----	-----	-----	
1239	3 gal	7.24	11.50 mS/cm	26.6 °C	Clear
1242	5 gal	7.18	11.35 mS/cm	26.3 °C	Clear
1244	7 gal	7.21	11.56 mS/cm	26.9 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1245 Time Finished: 1245

Analyses:	~~CLO4~~	TDS	~~TDS/pH~~	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Top of screen 20.7'

Water Sampling Field Log

Well No.: ARP-4A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 33.0 feet Time: 1157

Depth to Water: 28.75 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L)		Well Diameter			Well Volume (WV)	Purge Factor	Purge Volume
4.25 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= .68 gal.	* 3	=	3 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1200	-----	-----	-----	-----	
1202	1 gal	7.39	5.79 mS/cm	25.5 °C	clear
1203	2 gal	7.31	5.74 mS/cm	25.2 °C	clear
1204	3 gal	7.29	5.73 mS/cm	25.3 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1206 Time Finished: 1206

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Screen 17.7 - 32.7

EB-9 collected here before moving to next well.
CR, CRVI, TDS, pH, ClO4 3 bttls 1212

Water Sampling Field Log

Well No.: ARP-5A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 38.0 feet Time: 1143

Depth to Water: 31.72 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 6.28 feet * 0.16 gal/ft / 0.65 gal/ft * 1.47 gal/ft = 1.00 gal. (Well Volume (WV)) * 3 (Purge Factor) = 3 gal (Purge Volume)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1145	-----	-----	-----	-----	
1147	1 gal	7.63	4.98 mS/cm	24.0 °C	Clear
1148	2 gal	7.56	4.31 mS/cm	24.1 °C	Clear
1149	3 gal	7.54	4.30 mS/cm	24.3 °C	Clear
1150	4 gal	7.49	4.27 mS/cm	24.4 °C	Clear
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1151 Time Finished: 1151

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Screen 12.7 - 37.7'

Rup EC 24.5 °C Temp 4.29 mS/cm EC

Water Sampling Field Log

Well No.: ARP-6B

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 43.0 feet Time: 1127

Depth to Water: 31.26 feet

Height of Water Column (L): 11.74 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft; 4-in. * 0.65 gal/ft; 6-in * 1.47 gal/ft

Well Volume (WV): 1.87 gal. * Purge Factor: 3 = **Purge Volume**: 6 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1130	-----	-----	-----	-----	
1132	2 gal	7.13	9.23 mS/cm	25.3 °C	Clear
1134	4 gal	7.13	9.09 mS/cm	25.3 °C	Clear
1136	6 gal	7.15	9.10 mS/cm	24.7 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1137 Time Finished: 1137

Analyses:	ClO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Screen 27.7 - 42.7'

Closing Qc 7.01

Water Sampling Field Log

Well No.: ARP-7

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 39.0 feet Time: 1114

Depth to Water: 29.39 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 9.61 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.53 gal. (Well Volume (WV)) * 3 (Purge Factor) = 5 gal (Purge Volume)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1115	-----	-----	-----	-----	
1117	2 gal	7.16	9.28 mS/cm	27.7°C	Clear
1119	4 gal	7.08	9.34 mS/cm	26.2°C	Clear
1121	5 gal	7.14	9.27 mS/cm	26.1°C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1122 Time Finished: 1122

Analyses:	ClO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Screen 14-39'

Water Sampling Field Log

Well No.: ART-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm, windy, cloudy

Well Information:

Total Well Depth: 56.0 feet Time: 1015 5-28-15

Depth to Water: - 25.48 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	30.52 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1054		7.58	31.1	Clear

Comments:

Sample Collection Time - 1055

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-1A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-28-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: hot, clear, sunny

Well Information:

Total Well Depth: 56.0 feet Time: 1016

Depth to Water: - 23.97 feet

			Well Diameter (circle one)				Purge Volume
			2-in.	**4-in.**	**6-in.**		
Water Column (L):	32.03 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	**gals**	**pH**	**Temp**	**Observations of Sample**

Comments: DTW ONLY

Sample Collection Time - _____

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- Ø

Water Sampling Field Log

Well No.: ART-2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-28-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: hot, clear, sunny

Well Information:

Total Well Depth: 56.0 feet Time: 1021

Depth to Water: - 27.28 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	28.72 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample

Comments: DTW ONLY

Sample Collection Time - _____

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- Ø

Water Sampling Field Log

Well No.: ART-2A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm, windy, cloudy

Well Information:

Total Well Depth: 58.0 feet Time: 1024

Depth to Water: - 28.06 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	29.94 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1056		7.26	31.5°C	clear

Comments:

Sample Collection Time - 1051

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-3

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-28-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 47.0 feet Time: 1037

Depth to Water: - 30.83 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	16.17 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample

Comments:

DTW ONLY

Sample Collection Time - _____

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- Ø

Water Sampling Field Log

Well No.: ART-3A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Warm, windy, clouds

Well Information:

Total Well Depth: 55.0 feet Time: 1047 5-28-15

Depth to Water: - 35.93 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	19.07 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1059		7.39	25.4	clear

Comments:

Sample Collection Time - 1100

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Windy, warm, some clouds

Well Information:

Total Well Depth: 46.0 feet Time: 1052 5-28-15

Depth to Water: - 25.51 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	20.49 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1102		7.36	26.2	clear

Comments:

Sample Collection Time - 1103

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-4A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-28-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 46.0 feet Time: 1049

Depth to Water: - 29.28 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	16.72 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample

Comments:

DTW ONLY

Sample Collection Time - _____

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- Ø

Water Sampling Field Log

Well No.: ART-6

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port O Disposable Bailer ● Electric pump O

Weather Conditions: cloudy, warm, windy

Well Information:

31.62

Total Well Depth: 36.0 feet Time: 1230

Depth to Water: - 26.80 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	9.20 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1233		7.49	25.6	clear

Comments:

Sample Collection Time - 1235

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-7

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: _____

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: _____

Well Information:

Total Well Depth: 38.9 feet Time: _____

Depth to Water: - _____ feet

			Well Diameter (circle one)				Purge Volume
			2-in.	**4-in.**	**6-in.**		
Water Column (L):	_____ feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	**gals**	**pH**	**Temp**	**Observations of Sample**

Comments: Well capped
Not able to collect data
OR DTW

Sample Collection Time - _____

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- Ø

Water Sampling Field Log

Well No.: ART-7A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port O Disposable Bailer ● Electric pump O

Weather Conditions: Warm, windy, cloudy

Well Information:

3206 Total Well Depth: 40.00 feet Time: 1243

Depth to Water: - 28.97 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	11.03 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1244		7.48	25.5°C	clear w/some

Comments:

Sample Collection Time - 1245

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-7B

Project No.: Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Warm, windy, some clouds

Well Information:

Total Well Depth: 50.0 feet Time: 1001 5-28-15

Depth to Water: - 38.08 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	11.920 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1105		7.43	26.3	Clear

Comments:

Sample Collection Time - 1104

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-8

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm, windy, some clouds

Well Information:

Total Well Depth: 50.53 feet Time: 1029 5-28-15

Depth to Water: - 30.07 feet

			Well Diameter (circle one)				Purge Volume
			2-in.	**4-in.**	**6-in.**		
Water Column (L):	20.46 feet	X	0.4893	1.9	4.41	=	____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	**gals**	**pH**	**Temp**	**Observations of Sample**
1112		7.16	26.3	Clear

Comments:

Sample Collection Time - 1113

Analyses:	CR	CLO4	~~pH/TDS~~	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-8A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-28-15

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 54.0 feet Time: 1035

Depth to Water: - 27.71 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	26.29 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample

Comments:

DTW ONLY

Sample Collection Time - _____

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- Ø

Water Sampling Field Log

Well No.: ART-9

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: windy, warm, some clouds

Well Information:

Total Well Depth: 43.0 feet Time: 5.28-15 1007

Depth to Water: - 30.35 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	12.65 feet	X	0.4893	1.9	4.41	=	____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1108		7.38	26.7	Clear

Comments:

Sample Collection Time - 1109

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: BEC-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: 40.0 feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				well not found
	gal				NO data, NO sample

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen 25'

Water Sampling Field Log

Well No.: DM-4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: 26.50 feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				Not Found
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 8'

Water Sampling Field Log

Well No.: DM-5

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: 26.50 feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				Dry 2 yrs ago
	gal				
	gal				NOT Found

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 7'

Olin Field

Water Sampling Field Log

Well No.: H-11

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6315

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 116.0 feet Time: 0859

Depth to Water: _____ feet

Well Diameter (circle one): 2-in. / 4-in. / 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 = Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal		mS/cm	°C	
	gal				well outside
	gal				casing cap -
					stuck, can't remove
					No sample No Data.

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - ?

Water Sampling Field Log

Well No.: H-28A

Project No.: _____ Site: TRONOX LLC- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-28-15

Sampling Method: Electric Pump O Dedicated bailer O Non Dedicated Bailer ● (Disposable)

Weather Conditions: Warm, Sunny, Clear

Well Information:

Total Well Depth: 51.0 feet Time: 0919

Depth to Water: 39.28 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Well Volume (WV): 11.72

Purge Factor:

Purge Volume:

Well volume calculation (optional): (WV) = 3.14 * r^2 * L * 7.48 gal./ft^3 = _____ gallons

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal	MOT	12.37 mS/m	26.3°C	Cloudy
	gal				
	gal				well not purged due
	gal				to location
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: 0925 Time Finished: 0925

Analyses:	CLO4	B, Cr, Iron, Mn, Na	pH, TDS, Chloride, Conductance	TOC	TOX	Phenols, Total
Bottles:	1 btl	1 btl	2 btls	1 btl	2 btl	1 btl

TOTAL BOTTLES- 8

Comments: Top of screen- ?

Water Sampling Field Log

Well No.: H-48

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, partially cloudy

Well Information:

Total Well Depth: 3216.0 feet Time: 0951

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				well not accessable
	gal				cast lid cross threaded
	gal				+ stuck in place.
					Did diligently try to
No	Data				remove - No luck
	No	Sample			

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: ~~8~~ 0

Comments: historic - well purges dry, sample collected after 12 gallons purged

Water Sampling Field Log

Well No.: H-58A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 57.0 feet Time: 1205

Depth to Water: 30.04 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 26.96 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 17.52 gal. * x 3 53 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1209	-----	-----	-----	-----	
1220	18 gal	7.34	18.17 mS/cm	28.3 °C	clear
1232	36 gal	7.08	18.39 mS/cm	28.4 °C	clear
1244	52 gal	7.01	18.25 mS/cm	26.6 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1245 Time Finished: 1245

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 37'

closing QC - 699

Water Sampling Field Log

Well No.: HM-2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer ● (disposable) Ready Flo 2" O

Weather Conditions: Warm, cloudy

Well Information:

Total Well Depth: 36.60 feet Time: 1007

Depth to Water: 28.12 feet

Height of Water Column (L): 8.48 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1008	gal	7.38	5.69 mS/cm	24.3°C	clear
	gal				
	gal				well not purged due to location

Sample Appearance: clear

Sample Collection - Time Start: 1008 Time Finished: 1008

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: HMW-13

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-7-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny.

Well Information:

Total Well Depth: 40.0 feet Time: 0853

Depth to Water: 17.04 feet

Height of Water Column (L): 22.96 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 3.67 gal. * x 3 Well Volume (WV) 11 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0856	-----	-----	-----	-----	
0858	4 gal	7.65	2.22 mS/cm	20.9 °C	clear w/ some black silt
0900	8 gal	7.51	2.25 mS/cm	19.1 °C	clear
0902	11 gal	7.44	2.22 mS/cm	19.3 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0904 Time Finished: 0904

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - ?
Well casing broken at ~ 3' from top

Water Sampling Field Log

Well No.: HMW-14

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 40.0 feet Time: 1149

Depth to Water: 19.47 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 20.53 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 3.28 gal. * x 3 Well Volume (WV) 10 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
11:55	-----	-----	-----	-----	
1158	4 gal	7.82	2.39 mS/cm	20.8 °C	clear
1202	7 gal	7.76	2.31 mS/cm	20.9 °C	clear
1204	10 gal	7.57	2.30 mS/cm	20.8 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1206 Time Finished: 1206

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen-?

closing QC - 7.02

Water Sampling Field Log

Well No.: HMW-15

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, cloudy

Well Information:

Total Well Depth: 30.0 feet Time: 1041

Depth to Water: 11.44 feet

Height of Water Column (L): 18.56 feet * Well Diameter (circle one) 2-in. 0.16 gal/ft 4-in. 0.65 gal/ft 6-in 1.47 gal/ft = Well Volume (WV) 2.96 gal. * x 3 9 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1043	-----	-----	-----	-----	
1045	3 gal	7.29	3.16 mS/cm	31.7 °C	some debris (vegetation)
1047	6 gal	7.15	3.18 mS/cm	31.4 °C	clear
1049	9 gal	7.30	3.19 mS/cm	31.1 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1052 Time Finished: 1052

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - ?

EB-2 collected here 1015 before purging + sampling well 3 btls CLO4, TDS, CR, pH, CRVI

Water Sampling Field Log

Well No.: HMW-1b

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-20-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, cloudy, breezy

Well Information:

Total Well Depth: 30.0 feet Time: 1320

Depth to Water: 8.89 feet

Height of Water Column (L): 21.11 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 3.37 gal. * x 3 Well Volume (WV) 10 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1321	-----	-----	mB -----	-----	
1325	4 gal	7.61	7.28 mS/cm	26.2 °C	clear
1328	8 gal	7.32	7.19 mS/cm	26.7 °C	clear
1330	10 gal	7.32	7.10 mS/cm	27.2 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1331 Time Finished: 1331

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen- ?

Closing QC - 7.0

Dup EC 27.5°C 7.74 Temp EC

Water Sampling Field Log

Well No.: HSW-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: 24.0 feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				well not found
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - ?

Water Sampling Field Log

Well No.: I- AA

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, some clouds

Well Information:

Total Well Depth: 46.0 feet Time: 0828

Depth to Water: 43.99 feet

Height of Water Column (L): 2.01 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0829	4.74 mS/cm	26.4 °C	7.36	clear

Sample Appearance: clear

Sample Collection - Time Start: 0830 Time Finished: 0830

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AB

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, _____ Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, some clouds

Well Information:

Total Well Depth: 52.0 feet Time: 0819

Depth to Water: 33.36 feet

Height of Water Column (L): 17.64 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0820	5.37 mS/cm	25.7°C	7.42	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0821 Time Finished: 0821

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments: turned pump on to sample

Water Sampling Field Log

Well No.: I- AC

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, _____ Date: 5-29-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, clear

Well Information:

Total Well Depth: 50 feet Time: 0925

Depth to Water: 29.23 feet

Height of Water Column (L): 20.77 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0926	9.73 mS/cm	30.7 °C	6.88	clear

Sample Appearance: clear

Sample Collection - Time Start: 0927 Time Finished: 0927

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AD

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, ' Date: 5-29-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 50 feet Time: 0932

Depth to Water: 29.99 feet

Height of Water Column (L): 20.01 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0933	557 mS/cm	26.4 °C	7.31	light yellow

Sample Appearance: slight yellow

Sample Collection - Time Start: 0934 Time Finished: 0934

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AR

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny, some clouds

Well Information:

Total Well Depth: 45.0 feet Time: 0835

Depth to Water: 43.07 feet

Height of Water Column (L): 1.93 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0836	7.90 mS/cm	28.0 °C	7.20	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0837 Time Finished: 0837

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Closing DO 6.99

Water Sampling Field Log

Well No.: I- B

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, cloudy, sunny

Well Information:

Total Well Depth: 45.70 feet Time: 0812

Depth to Water: 43.62 feet

Height of Water Column (L): 2.08 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0813	5.97 mS/cm	28.1 °C	7.20	clear

Sample Appearance: clear

Sample Collection - Time Start: 0814 Time Finished: 0814

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- C

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, _____ Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, clouds

Well Information:

Total Well Depth: 43.80 feet Time: 0737

Depth to Water: 36.49 feet

Height of Water Column (L): 6.31 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0738	8.24 mS/cm	24.6 °C	7.38	very light yellow

Sample Appearance: very light yellow

Sample Collection - Time Start: 0739 Time Finished: 0739

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- D

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, _____ Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny, some clouds

Well Information:

Total Well Depth: 47.70 feet Time: 0726

Depth to Water: 43.77 feet

Height of Water Column (L): 3.93 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0728	8.26 mS/cm	25.4 oc	7.29	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 0729 Time Finished: 0729

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- E

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 46.70 feet Time: 0707

Depth to Water: 44.46 feet

Height of Water Column (L): 2.24 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0709	9.49 mS/cm	25.5 °C	7.10	light yellow

Sample Appearance: Light yellow

Sample Collection - Time Start: 0710 Time Finished: 0710

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- F

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 45.80 feet Time: 0637

Depth to Water: 41.02 feet

Height of Water Column (L): 4.78 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0639	11.56 mS/cm	24.2 °C	7.04	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0640 Time Finished: 0640

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- G

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 42.60 feet Time: 0616

Depth to Water: 41.45 feet

Height of Water Column (L): 1.15 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0618	9.11 mS/cm	25.0 °C	7.10	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0619 Time Finished: 0619

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- H

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm

Well Information:

Total Well Depth: 46.50 feet Time: 0547

Depth to Water: 44.08 feet

Height of Water Column (L): 2.42 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0548	13.49 mS/cm	24.9 °C	6.81	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0549 Time Finished: 0549

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

231 362

Water Sampling Field Log

Well No.: I- I

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 44.20 feet Time: 0904

Depth to Water: 24.71 feet

Height of Water Column (L): 19.49 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0905	1.30 mS/cm	26.8 °C	7.17	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0906 Time Finished: 0906

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- J

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, clear

Well Information:

Total Well Depth: 44.50 feet Time: 0912

Depth to Water: 38.28 feet

Height of Water Column (L): 6.22 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0913	5.78 mS/cm	26.4 °C	7.15	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 0914 Time Finished: 0914

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

A5919

Water Sampling Field Log

Well No.: I- K

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-29-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 40.60 feet Time: 0919

Depth to Water: 34.80 feet

Height of Water Column (L): 5.80 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0920	5.47 mS/cm	26.9 °C	7.30	clear

Sample Appearance: clear

Sample Collection - Time Start: 0921 Time Finished: 0921

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Closing QC 6.99

Dup EC 5.81 / EC 27.0°C / Temp

Water Sampling Field Log

Well No.: I- L

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, clouds

Well Information:

Total Well Depth: 43.40 feet Time: 0754

Depth to Water: 38.64 feet

Height of Water Column (L): 4.76 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0756	7.17 mS/cm	25.6°C	7.36	clear

Sample Appearance: clear

Sample Collection - Time Start: 0757 Time Finished: 0757

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Dup EC 7.13 / EC 3 25.8°C / Temp

Water Sampling Field Log

Well No.: I- M

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 43.70 feet Time: 0714

Depth to Water: 36.33 feet

Height of Water Column (L): 7.37 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0715	9.48 mS/cm	26.1°C	7.31	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 0716 Time Finished: 0716

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- N

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 41.70 feet Time: 0652

Depth to Water: 37.76 feet

Height of Water Column (L): 3.94 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0654	9.97 mS/cm	25.4 °C	7.18	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 0655 Time Finished: 0655

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- O

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, _____ Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm

Well Information:

Total Well Depth: 43.80 feet Time: 0528

Depth to Water: 37.81 feet

Height of Water Column (L): 5.99 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0529	10.31 mS/cm	24.4 °C	7.30	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0530 Time Finished: 0530

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- P

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm

Well Information:

Total Well Depth: 47.80 feet Time: 0540

Depth to Water: 39.69 feet

Height of Water Column (L): 8.11 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0541	11.25 mS/cm	24.5 °C	6.97	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0542 Time Finished: 0542

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- Q

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 43.80 feet Time: 0625

Depth to Water: 40.19 feet

Height of Water Column (L): 3.61 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0626	13.73 mS/cm	25.4 °C	6.88	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0627 Time Finished: 0627

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Closing QC pH 7.01

Water Sampling Field Log

Well No.: I- R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, clouds, warm

Well Information:

Total Well Depth: 45.30 feet Time: 0804

Depth to Water: 39.68 feet

Height of Water Column (L): 5.62 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0806	7.51 mS/cm	26.1 °C	7.24	clear

Sample Appearance: clear

Sample Collection - Time Start: 0807 Time Finished: 0807

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- S

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, (Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny, some clouds

Well Information:

Total Well Depth: 47.70 feet Time: 0745

Depth to Water: 25.39 feet

Height of Water Column (L): 2.31 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0747	7.28 mS/cm	24.9 °C	7.40	slight yellow

Sample Appearance: slight yellow

Sample Collection - Time Start: 0748 Time Finished: 0748

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

closing Qc 7.00

Water Sampling Field Log

Well No.: I-T

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, _____ Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm

Well Information:

Total Well Depth: 47.80 feet Time: 0607

Depth to Water: 43.28 feet

Height of Water Column (L): 4.52 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0609	14.36 mS/cm	26.6 °C	7.04	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0610 Time Finished: 0610

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- U

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, _____ Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm

Well Information:

Total Well Depth: 47.60 feet Time: 0600

Depth to Water: 44.28 feet

Height of Water Column (L): 3.32 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0602	13.99 mS/cm	25.6 °C	6.82	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0603 Time Finished: 0603

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- V

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, clear, sunny

Well Information:

Total Well Depth: 47.70 feet Time: 0856

Depth to Water: 33.74 feet

Height of Water Column (L): 13.96 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0857	7.23 mS/cm	27.1 °C	7.23	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0857 Time Finished: 0857

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- W

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm

Well Information:

Total Well Depth: 50.0 feet Time: 0536

Depth to Water: 43.63 feet

Height of Water Column (L): 6.37 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0537	9.98 mS/cm	26.8 °C	7.23	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0538 Time Finished: 0538

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-X

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 50 feet Time: 0646

Depth to Water: 41.73 feet

Height of Water Column (L): 8.27 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0648	11.36 mS/cm	24.9 °C	7.03	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0649 Time Finished: 0649

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-Y

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Clouds, warm, sunny

Well Information:

Total Well Depth: 50.5 feet Time: 0759

Depth to Water: 40.16 feet

Height of Water Column (L): 10.34 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0801	7.70 mS/cm	25.5 °C	7.32	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0802 Time Finished: 0802

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- 2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, _____ Date: 5-29-15

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 37.00 feet Time: 0908

Depth to Water: 33.28 feet

Height of Water Column (L): 3.72 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Oberservations
0907	6.08mS/cm	26.1 °C	7.25	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0909 Time Finished: 0909

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: L-635

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-27-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, some clouds

Well Information:

Total Well Depth: 45.33 feet Time: 0915

Depth to Water: _____ feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Volume (WV) | Purge Factor | **Purge Volume**

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				NO Access
	gal				No sample
	gal				NO DATA
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: L-637

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-27-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, cloudy

Well Information:

Total Well Depth: 39.5 feet Time: 0915

Depth to Water: _____ feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): _____ feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* 3	= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				NO access
	gal				NO sample
	gal				NO data
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 0

Comments:

Water Sampling Field Log

Well No.: M-2A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 47.57 feet Time: 1137

Depth to Water: 42.22 feet

Height of Water Column (L): 5.35 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft; 4-in. * 0.65 gal/ft; 6-in * 1.47 gal/ft = .85 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1138	-----	-----	-----	-----	
1139	1 gal	7.56	7.09 mS/cm	26.1 °C	yellow/cloudy
1140	2 gal	7.44	7.02 mS/cm	25.7 °C	yellow/slightly cloudy
1141	3 gal	7.39	6.99 mS/cm	25.5 °C	yellow/clear

Sample Appearance: yellow

Sample Collection - Time Start: 1142 Time Finished: 1142

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 29'

Water Sampling Field Log

Well No.: M-5A

Project No.: _____ Site: TRONOX LLC- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-22-15

Sampling Method: Electric Pump ● Dedicated bailer O Non Dedicated Bailer O

Weather Conditions: Warm, Cloudy

Well Information:

Total Well Depth: 50.0 feet Time: 1042

Depth to Water: 38.12 feet

	Well Diameter (circle one) 2-in. / 4-in. / 6-in		Well Volume (WV)	Purge Factor	Purge Volume
11.88	x .65	=	7.72 gal	x 3 =	23 gal

Well volume calculation (optional): (WV) = 3.14 * r^2 * L * 7.48 gal./ft^3 = _____ gallons

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1045	-----	-----	-----	-----	
1051	8 gal	7.17	13.15 mS/cm	26.4 °C	Clear
1057	16 gal	7.18	13.23 mS/cm	25.0 °C	Clear
1105	23 gal	7.02	16.43 mS/cm	25.4 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1108 Time Finished: 1108

Analyses:	CLO4	B, Cr, Iron, Mn, Na	pH, TDS, Chloride, Conductance	TOC	TOX	Phenols, Total
Bottles:	1 btl	1 btl	2 btls	1 btl	2 btl	1 btl

TOTAL BOTTLES- 8

Comments: Top of screen-?

Water Sampling Field Log

Well No.: N-6A

Project No.: _____ Site: TRONOX LLC- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-28-15

Sampling Method: Electric Pump O Dedicated bailer ● Non Dedicated Bailer O

Weather Conditions: Warm, sunny, Clear

Well Information:

Total Well Depth: 46.0 feet Time: 0901

Depth to Water: 39.02 feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
6.98	x .16		=	____	x 3 =	____

Well volume calculation (optional): (WV) = 3.14 * r^2 * L * 7.48 gal./ft^3 = _____ gallons

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal	7.06	10.18 mS/cm	26.3 °C	Cloudy
	gal				
	gal				
	gal				well not purged due to location
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: 0910 Time Finished: 0910

Analyses:	CLO4	B, Cr, Iron, Mn, Na	pH, TDS, Chloride, Conductance	TOC	TOX	Phenols, Total
Bottles:	1 btl	1 btl	2 btls	1 btl	2 btl	1 btl

TOTAL BOTTLES- 8

Comments: Top of screen- ?

Water Sampling Field Log

Well No.: M-7B

Project No.: _____ Site: TRONOX LLC- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-22-15

Sampling Method: Electric Pump O Dedicated bailer O Non Dedicated Bailer ● disposable

Weather Conditions: warm, cloudy

Well Information:

Total Well Depth: 55.0 feet Time: 0800

Depth to Water: 36.86 feet

	Well Diameter (circle one) 2-in. 4-in. 6-in		Well Volume (WV)	Purge Factor	Purge Volume
18.14	X .16	=	____	x 3	= ____

Well volume calculation (optional): (WV) = 3.14 * r^2 * L * 7.48 gal./ft^3 = _____ gallons

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
0805	gal	7.42	11.36 mS/cm	24.9 °C	clear
	gal				
	gal				
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 0807 Time Finished: 0807

Analyses:	CLO4	B, Cr, Iron, Mn, Na	pH, TDS, Chloride, Conductance	TOC	TOX	Phenols, Total
Bottles:	1 btl	1 btl	2 btls	1 btl	2 btl	1 btl

TOTAL BOTTLES- 8

Comments: Top of screen-? well not purged due to location

Training Center

Water Sampling Field Log

Well No.: M-10

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 6-3-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, clear, breezy

Well Information:

Total Well Depth: 69.45 feet Time: 10:40

Depth to Water: 51.53 feet

Height of Water Column (L): 17.92 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft (Well Diameter (circle one): 2-in. 4-in. 6-in) = 26.34 gal. * x 3 (Well Volume (WV)) 79 gallons

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1044	----	----	----	----	
1100	26 gal	7.53	3.34 mS/cm	25.1 °C	clear
1126	52 gal	7.17	3.25 mS/cm	24.3 °C	clear
1158	79 gal	7.29	3.31 mS/cm	24.5 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1200 Time Finished: 1200

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

seperate cooler / seperate COC
See bottle order

TOTAL BOTTLES: 6

Comments: NDPES WELL

Dup 6 cooler 1 here for Cl, CRVI, TDS, pH, clor 1200

Top of screen - 43

North Unit 4

Water Sampling Field Log

Well No.: M-11

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 6-5-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: sunny, clear

Well Information:

Total Well Depth: 58.0 feet Time: 1225

Depth to Water: 44.64 feet

Height of Water Column (L): 13.36 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft (Well Diameter (circle one): 2-in. 4-in. 6-in) = 19.63 gal. * x 3 (Well Volume (WV)) 59 gallons

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1228	----	----	----	----	
1243	20 gal	7.88	3.02 mS/cm	28.6 °C	very slight yellow tint
1258	40 gal	8.01	3.06 mS/cm	27.6 °C	same
1304	59 gal	7.97	2.99 mS/cm	26.6 °C	same

Sample Appearance: same

Sample Collection - Time Start: 1305 Time Finished: 1305

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen 33.3
closing QC 7.01

Dup EC 26.5 / temp 2.98 / EC

Water Sampling Field Log

Well No.: M-12A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: sunny, clear, hot

Well Information:

Total Well Depth: 50.0 feet Time: 1202

Depth to Water: 42.69 feet

Height of Water Column (L): 7.31 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 4.75 gal. * x 3 14 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1204	-----	-----	-----	-----	
1209	5 gal	7.87	7.89 mS/cm	25.9°c	yellow
1214	10 gal	8.01	8.22 mS/cm	26.4°c	yellow
1217	14 gal	8.00	8.19 mS/m	26.3°c	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1218 Time Finished: 1218

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 40'

Dup-4 collected here for same analyses 1218

Water Sampling Field Log

Well No.: M-13

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 54.76 feet Time: 0907

Depth to Water: 45.62 feet

Height of Water Column (L): 9.14 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 13.43 gal. * x 3 Well Volume (WV) 40 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0912	-----	-----	-----	-----	
0923	15 gal	7.48	4.14 mS/cm	26.9°C	rusty colored
0934	28 gal	7.47	3.53 mS/cm	27.3°C	very slightly yellow
0945	40 gal	7.51	3.88 mS/cm	27.5°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0946 Time Finished: 0946

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 28'

EB-16 collected here before moving to next well 3 bttls 0958 TDS, pH, CLO4, CR, CRVI

Water Sampling Field Log

Well No.: M-14A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-22-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Cloudy, warm

Well Information:

Total Well Depth: 42.40 feet Time: 1003

Depth to Water: 32.94 feet

Height of Water Column (L): 9.46 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 1.51 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1005	-----	-----	-----	-----	
1007	3 gal	6.65	4.26 mS/cm	25.3 °C	Clear
1009	4 gal	6.85	4.17 mS/cm	25.5 °C	Clear
1010	5 gal	7.07	4.13 mS/cm	24.7 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1012 Time Finished: 1012

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen

Water Sampling Field Log

Well No.: N-19

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: clear, hot, sunny

Well Information:

Total Well Depth: 41.20 feet Time: 1105

Depth to Water: 35.36 feet

Height of Water Column (L): 5.84 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = .93 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1107	-----	-----	-----	-----	
1108	1 gal	7.28	5.24 mS/cm	28.0 °C	clear
1109	2 gal	7.01	5.23 mS/cm	26.3 °C	clear
1110	3 gal	6.97	5.18 mS/cm	26.4 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1112 Time Finished: 1112

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments: Top of screen - 14.5'

Diesel tank

Water Sampling Field Log

Well No.: M-21

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 44.74 feet Time: 0844

Depth to Water: 40.72 feet

Height of Water Column (L): 4.02 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft / 4-in. 0.65 gal/ft / 6-in 1.47 gal/ft = .64 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0849	-----	-----	-----	-----	
0850	1 gal	7.44	4.10 mS/cm	27.2 °C	Clear
0851	2 gal	7.44	3.89 mS/cm	26.1 °C	Clear
0852	3 gal	7.39	3.87 mS/cm	26.0 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0853 Time Finished: 0853

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 18'

Water Sampling Field Log

Well No.: M-22A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 5-21-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, cloudy, breezy

Well Information:

Total Well Depth: 316.92 feet Time: 1330

Depth to Water: 31.01 feet

Height of Water Column (L): 5.91 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft | 4-in. * 0.65 gal/ft | 6-in * 1.47 gal/ft

Well Volume (WV) = .94 gal. * x 3 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1333	-----	-----	-----	-----	
1335	1 gal	7.31	1103 mS/cm	25.4 °C	yellow
1336	2 gal	7.28	10.94 mS/cm	25.5 °C	yellow
1337	3 gal	7.28	10.97 mS/cm	25.3 °C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1338 Time Finished: 1338

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 16'

Water Sampling Field Log

Well No.: M-23

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, breezy, clouds

Well Information:

Total Well Depth: 44.66 feet Time: 1306

Depth to Water: 35.05 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 9.61 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.53 gal. * x 3 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1308	-----	-----	-----	-----	
1310	2 gal	7.68	4.68 mS/cm	26.5°C	clear
1311	4 gal	7.56	4.60 mS/cm	26.3°C	clear
1312	5 gal	7.39	4.51 mS/cm	25.4°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1314 Time Finished: 1314

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 9.4"

closing QC 6.99

Water Sampling Field Log

Well No.: M-25

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-22-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, warm, breezy

Well Information:

Total Well Depth: 41.47 feet Time: 1125

Depth to Water: 33.79 feet

Height of Water Column (L): 7.68 feet

Well Diameter (circle one): 2-in. (0.16 gal/ft) 4-in. (0.65 gal/ft) 6-in (1.47 gal/ft) = 1.22 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1128	-----	-----	-----	-----	
1130	2 gal	7.33	9.42 mS/cm	26.3 °C	yellow
1131	3 gal	7.21	8.75 mS/cm	25.9 °C	yellow
1133	4 gal	7.18	8.69 mS/cm	25.3 °C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1135 Time Finished: 1135

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 24'
Dup- 3 collected here for same analyses

Water Sampling Field Log

Well No.: M-29

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: 42.0 feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				NOT SAMPLED DUE TO
	gal				SAFETY ISSUES-
	gal				In basement of Unit 6
					Tronox

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments:

Water Sampling Field Log

Well No.: M-31A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, breezy, clear

Well Information:

Total Well Depth: 55.0 feet Time: 1230

Depth to Water: 46.91 feet

Height of Water Column (L): 8.09 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = Well Volume (WV) 1.29 gal. * x 3 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1232	-----	-----	-----	-----	
1234	2 gal	7.45	6.45 mS/cm	27.2 °C	light yellow
1235	3 gal	7.43	6.46 mS/cm	25.4 °C	light yellow
1234	4 gal	7.44	6.55 mS/cm	25.7 °C	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 1237 Time Finished: 1237

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 35' Dup EC

26.2 temp 6.56 EC

Water Sampling Field Log

Well No.: M-322

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 7/14/15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Hot, clear

Well Information:

Total Well Depth: 53.3 feet measured in field Time: 0628

Depth to Water: 46.19 feet

Height of Water Column (L): 7.11 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 1.13 gal. * x 3 Well Volume (WV) 3gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
630	-----	-----	-----	-----	
634	1 gal	7.35	6.09 ms/cm	27.7°	Slightly cloudy, Light yellow
638	2 gal	7.36	6.00 ms/cm	26.7°	Same as above
641	3 gal	7.23	5.98 ms/cm	26.6°	Clear, Light yellow

Sample Appearance: Clear

Sample Collection - Time Start: 0643 Time Finished: 0643

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

hand bailed due to Location

Water Sampling Field Log

Well No.: M-33

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 071415

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 53.4 feet Measured in field Time: 0609

Depth to Water: 46.09 feet

Height of Water Column (L): 7.31 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 1.16 gal. * x 3 Well Volume (WV) 4 gal.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0610	-----	-----	-----	-----	
0613	2 gal	7.32	5.46 ms/cm	26.1°C	Cloudy
0616	3 gal	7.27	5.38 ms/cm	25.6°C	Cloudy
0619	4 gal	7.22	5.27 ms/cm	25.8°C	Cloudy

Sample Appearance: Cloudy

Sample Collection Time Start: 0620 Time Finished: 0620

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: hand bailed due to location

Water Sampling Field Log

Well No.: M-35

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, clear, sunny

Well Information:

Total Well Depth: 39.70 feet Time: 1118

Depth to Water: 33.29 feet

Height of Water Column (L): 6.41 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 1.02 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1120	---	---	---	---	
1121	1 gal	7.27	3.66 mS/cm	27.5 °C	Slight yellow tint
1122	2 gal	7.19	3.83 mS/cm	26.9 °C	Same
1123	3 gal	7.20	3.96 mS/cm	26.4 °C	Same

Sample Appearance: Slight yellow tint

Sample Collection - Time Start: 1125 Time Finished: 1125

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen EB-12 collected here before moving to next well 3 btls TDS, pH, Clo4, CRVI, CR 1132

closing DC 7.01

Water Sampling Field Log

Well No.: M-36

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-21-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, cloudy, breezy

Well Information:

Total Well Depth: 37.85 feet Time: 1348

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				well destroyed
	gal				
	gal				

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments:

Water Sampling Field Log

Well No.: M-37

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 5-22

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, cloudy, breezy

Well Information:

Total Well Depth: 37.18 feet Time: 1153

Depth to Water: 32.03 feet

Height of Water Column (L): 5.15 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = .82 gal. * x 3 = 3 gal (Well Volume (WV))

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1157	-----	-----	-----	-----	
1159	1 gal	7.10	7.39 mS/cm	27.5 °C	Clear
1200	2 gal	6.93	6.76 mS/cm	26.9 °C	Clear
1201	3 gal	6.98	6.78 mS/cm	26.7 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1203 Time Finished: 1203

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 20

Water Sampling Field Log

Well No.: M-38

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-21-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, warm, breezy

Well Information:

Total Well Depth: 36.82 feet Time: 1349

Depth to Water: 31.62 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 5.2 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .83 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1350	-----	-----	-----	-----	
1351	1 gal	7.23	11.63 mS/cm	26.3 °C	yellow
1352	2 gal	7.16	11.42 mS/cm	25.6 °C	yellow
1353	3 gal	7.12	11.30 mS/cm	25.3 °C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1355 Time Finished: 1355

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 20'

Dup EC 26.4 °C / Temp 1128 / EC

Closing QC 6.99

3362271

Water Sampling Field Log

Well No.: M-44

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-26-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 37.65 feet Time: 1315

Depth to Water: 25.34 feet

Height of Water Column (L): 12.31 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft, 4-in. * 0.65 gal/ft, 6-in * 1.47 gal/ft = 1.96 gal. * x 3 Well Volume (WV) 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1318	----	----	----	----	
1320	2 gal	7.32	9.49 mS/cm	26.3 °C	Clear
1321	4 gal	7.33	9.41 mS/cm	26.5 °C	Clear
1323	6 gal	7.31	9.52 mS/cm	26.4 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1325 Time Finished: 1325

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 5

Dup - 4 collected here for same analyses 3 bttls

Water Sampling Field Log

Well No.: M-48A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-26-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 40.0 feet Time: 0944

Depth to Water: 30.72 feet

Height of Water Column (L): 9.28 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) | 4-in. * 0.65 gal/ft | 6-in * 1.47 gal/ft

= 1.48 gal. * x 3 = Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0950	-----	-----	-----	-----	
0952	2 gal	7.48	6.54 mS/cm	27.2 °C	muddy
0954	4 gal	7.41	6.0 mS/cm	26.4 °C	muddy
0955	5 gal	7.40	6.04 mS/cm	26.4 °C	cloudy

Sample Appearance: _____

Sample Collection - Time Start: 0957 Time Finished: 0957

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 19.7

Water Sampling Field Log

Well No.: M-52

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 47.38 feet Time: 1210

Depth to Water: 42.15 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 5.23 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .83 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1214	-----	-----	-----	-----	
1215	1 gal	7.65	5.41 mS/cm	27.2 °C	slightly yellow
1216	2 gal	7.47	5.13 mS/cm	26.2 °C	slightly yellow
1217	3 gal	7.43	5.33 mS/cm	26.7 °C	slightly yellow

Sample Appearance: slightly yellow

Sample Collection - Time Start: 1218 Time Finished: 1218

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 34.5

Water Sampling Field Log

Well No.: M-55

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm sunny clouds

Well Information:

Total Well Depth: 45.0 feet Time: 0705

Depth to Water: 29.92 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 15.08 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 14.6

Water Sampling Field Log

Well No.: M-56

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, some clouds

Well Information:

Total Well Depth: 40.0 feet Time: 0616

Depth to Water: 32.02 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 7.98 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 15

Water Sampling Field Log

Well No.: M-57A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Overcast, cool, breezy

Well Information:

Total Well Depth: 42.40 feet Time: 1058

Depth to Water: 29.89 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 12.51 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.00 gal. * x 3 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1101	-----	-----	-----	-----	
1103	2 gal	7.75	4.85 mS/cm	26.2 °C	Slightly cloudy
1105	4 gal	7.66	4.62 mS/cm	25.4 °C	Clear
1107	6 gal	7.65	4.61 mS/cm	25.4 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1110 Time Finished: 1110

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 20

Water Sampling Field Log

Well No.: M-58

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clouds

Well Information:

Total Well Depth: 45.0 feet Time: 0555

Depth to Water: 30.36 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 14.64 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 15

Water Sampling Field Log

Well No.: M-60

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, some clouds

Well Information:

Total Well Depth: 43.0 feet Time: 0614

Depth to Water: 32.75 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 10.25 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 17.8

Water Sampling Field Log

Well No.: M-64

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, sunny, some clouds, breeze.

Well Information:

Total Well Depth: 38.0 feet Time: 0705

Depth to Water: 29.49 feet

Height of Water Column (L): 8.51 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 1.36 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0714	----	----	----	----	
0716	2 gal	7.39	6.62 mS/cm	18.1 °C	light yellow
0717	3 gal	7.39	6.79 mS/cm	19.1 °C	light yellow
0719	4 gal	7.38	6.80 mS/cm	17.8 °C	silty

Sample Appearance: light yellow w/ some silt

Sample Collection - Time Start: 0720 Time Finished: 0720

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 12.7

Water Sampling Field Log

Well No.: N-165

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-7-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: breezy, warm, cloudy

Well Information:

Total Well Depth: 40.0 feet Time: 1209

Depth to Water: 33.16 feet

Height of Water Column (L): 6.84 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 109 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1217	-----	-----	-----	-----	
1219	1 gal	7.27	12.89 mS/cm	26.4 °c	yellow
1220	2 gal	7.14	12.55 mS/cm	26.5 °c	yellow
1222	3 gal	7.11	12.70 mS/cm	26.5 °c	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1223 Time Finished: 1223

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 14.4

closing QC - 7.02

Water Sampling Field Log

Well No.: M-616

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy, sunny

Well Information:

Total Well Depth: 43.0 feet Time: 0800

Depth to Water: 31.96 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 11.04 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.76 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0806	-----	-----	-----	-----	
0809	2 gal	7.34	13.25 mS/cm	21.3 °C	yellow
0811	4 gal	7.17	13.35 mS/cm	23.4 °C	yellow
0812	5 gal	7.14	13.52 mS/cm	23.3 °C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 0814 Time Finished: 0814

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 17.5

0820 EB-4 collected here before moving to next well CR, CRVI, TDS pH, Clo4 3 bt

Dup 1 - collected here for same analyses

Water Sampling Field Log

Well No.: M-67

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny, Clear

Well Information:

Total Well Depth: 38.0 feet Time: 0956

Depth to Water: 22.34 feet

Height of Water Column (L): 15.66 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 2.50 gal. * x 3 Well Volume (WV) 8 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0957	----	----	----	----	
1000	3 gal	7.35	5.55 mS/cm	27.4 °C	slightly yellow/clear
1002	6 gal	7.29	550 mS/cm	28.8 °C	yellow tint
1005	8 gal	7.23	546 mS/cm	28.2 °C	yellow tint

Sample Appearance: yellow tint

Sample Collection - Time Start: 1007 Time Finished: 1007

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 7.8

Water Sampling Field Log

Well No.: M-68

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 41.0 feet Time: 0938

Depth to Water: 26.34 feet

Height of Water Column (L): 14.66 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 2.34 gal. * x 3 Well Volume (WV) 7 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0940	-----	-----	-----	-----	
0943	3 gal	7.15	5.70 mS/cm	26.8 °C	clear
0946	5 gal	7.21	5.76 mS/cm	26.1 °C	Clear
0948	7 gal	7.22	5.83 mS/cm	25.5 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0950 Time Finished: 0950

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 11.2

Water Sampling Field Log

Well No.: M-69

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy, sunny

Well Information:

Total Well Depth: 40.0 feet Time 0849

Depth to Water: 33.99 feet

Height of Water Column (L): 6.01 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = .96 gal. * x 3 Well Volume (WV): 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0852	-----	-----	-----	-----	
0854	1 gal	7.35	5.05 mS/cm	24.9 °C	clear
0855	2 gal	7.37	4.92 mS/cm	24.4 °C	clear
0856	3 gal	7.38	4.89 mS/cm	25.3 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0858 Time Finished: 0858

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 19.9

Water Sampling Field Log

Well No.: M-7D

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-21-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, cloudy

Well Information:

Total Well Depth: 41.0 feet Time: 1246

Depth to Water: 35.37 feet

Height of Water Column (L): 5.63 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = .90 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1248	----	----	----	----	
1250	1 gal	7.52	9.03 mS/cm	26.0 °C	light yellow
1251	2 gal	7.43	8.29 mS/cm	25.3 °C	light yellow
1252	3 gal	7.34	8.22 mS/cm	25.4 °C	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 1253 Time Finished: 1253

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 15.3

Water Sampling Field Log

Well No.: M-71

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-21-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Cloudy, breezy

Well Information:

Total Well Depth: 43.0 feet Time: 1303

Depth to Water: 35.81 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 7.19 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.15 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1305	-----	-----	-----	-----	
1307	1 gal	7.33	7.78 mS/cm	26.3°C	yellow
1308	2 gal	7.26	7.76 mS/cm	25.9 °C	yellow
1309	3 gal	7.23	7.71 mS/cm	26.3 °C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1310 Time Finished: 1310

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 17.5

Water Sampling Field Log

Well No.: M-72

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-21-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, cloudy, breezy

Well Information:

Total Well Depth: 316.0 feet Time: 1319

Depth to Water: 32.17 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 3.83 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .61 gal. * x 3 Well Volume (WV) 2 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1320	----	----	----	----	
1321	1 gal	7.16	11.41 mS/cm	25.3 °C	yellow
1322	1.5 gal	7.15	11.14 mS/cm	25.2 °C	yellow
1322	2 gal	7.11	11.08 mS/cm	25.0 °C	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1323 Time Finished: 1323

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 10.1

Water Sampling Field Log

Well No.: M-73

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny, Clear

Well Information:

Total Well Depth: 36.0 feet Time: 1020

Depth to Water: 28.48 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 7.52 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.20 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1022	----	----	----	----	
1024	2 gal	7.24	7.37 mS/cm	27.2 °C	Yellow
1025	3 gal	7.24	6.89 mS/cm	27.6 °C	Yellow
1026	4 gal	7.22	6.76 mS/cm	28.2 °C	Yellow

Sample Appearance: Yellow

Sample Collection - Time Start: 1028 Time Finished: 1028

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 11

Water Sampling Field Log

Well No.: M-74

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, clear

Well Information:

Total Well Depth: 39.0 feet Time: 1040

Depth to Water: 27.76 feet

Height of Water Column (L): 11.24 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 1.79 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1044	-----	-----	-----	----	
1046	2 gal	7.55	5.74 mS/cm	28.2 °C	cloudy
1048	4 gal	7.37	5.60 mS/cm	30.0 °C	slightly cloudy
1049	5 gal	7.34	5.64 mS/cm	32.8 °C	slightly cloudy

Sample Appearance: slightly cloudy

Sample Collection - Time Start: 1050 Time Finished: 1050

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 9.2

Water Sampling Field Log

Well No.: M-75

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 53.90 feet Time: 1150

Depth to Water: 42.47 feet

Height of Water Column (L): 10.43 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = 1.66 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1152	-----	-----	-----	-----	
1154	2 gal	7.70	4.23 mS/cm	27.2°C	clear
1156	4 gal	7.67	4.14 mS/cm	26.1°C	clear
1157	5 gal	7.65	4.13 mS/cm	26.2°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1158 Time Finished: 1158

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 34.6

Water Sampling Field Log

Well No.: M-76

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, clear, sunny

Well Information:

Total Well Depth: 54.60 feet Time: 1208

Depth to Water: 39.38 feet

Height of Water Column (L): 15.22 feet * Well Diameter (circle one) 2-in. (0.16 gal/ft) 4-in. (0.65 gal/ft) 6-in (1.47 gal/ft) = 2.43 gal. * x 3 Well Volume (WV) 7 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1211	-----	-----	-----	-----	
1214	3 gal	7.77	4.86 mS/cm	27.0 °C	Clear
1216	5 gal	7.69	4.77 mS/cm	26.5 °C	Clear
1218	7 gal	7.60	4.73 mS/cm	27.0 °C	Clear

Sample Appearance: _____

Sample Collection - Time Start: 1220 Time Finished: 1220

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 34.6'

Water Sampling Field Log

Well No.: M-MM

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 47.20 feet Time: 0655

Depth to Water: 40.63 feet

Well Diameter (circle one) — 2-in. / 4-in. / 6-in

Height of Water Column (L): 6.57 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.05 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0702	-----	-----	-----	-----	
0704	1 gal	7.62	2.94 mS/cm	26.7°C	thick black
0705	2 gal	7.40	2.99 mS/cm	26.1°C	black
0706	3 gal	7.38	3.07 mS/cm	26.2°C	black

Sample Appearance: Black

Sample Collection - Time Start: 0708 Time Finished: 0708

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Tronox property in Manganese Pile AREA

TOTAL BOTTLES: 3

Comments: Top of Screen - 29'

Water Sampling Field Log

Well No.: M-78

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clouds

Well Information:

Total Well Depth: 43.6 feet Time: 0700

Depth to Water: 32.91 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 10.69 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 21.5

Water Sampling Field Log

Well No.: M-79

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy, sunny

Well Information:

Total Well Depth: 37.6 feet Time: 0824

Depth to Water: 31.73 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 5.67 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .93 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0828	-----	-----	-----	-----	
0830	1 gal	7.45	6.82 mS/cm	21.2 °C	slightly yellow
0831	2 gal	7.43	5.66 mS/cm	23.5 °C	clear
0832	3 gal	7.38	5.67 mS/cm	23.5 °C	clear
0833	4	7.37	5.67 mS/cm	23.4 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0835 Time Finished: 0835

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 10.8

Water Sampling Field Log

Well No.: M-80

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 43.70 feet Time: 0817

Depth to Water: 36.07 feet

Height of Water Column (L): 7.63 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 4.95 gal. * x 3 Well Volume (WV) 15 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0818	----	----	----	----	
0822	5 gal	7.23	3.80 mS/cm	26.0 °C	clear
0826	10 gal	7.25	3.63 mS/cm	25.9 °C	clear
0830	15 gal	7.29	3.72 mS/cm	25.9 °C	clear

Sample Appearance: Clear

Sample Collection - Time Start: 0831 Time Finished: 0831

Analyses:	CLO4	pH / TDS	CR	~~pH / TDS / CRVI~~ MB	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 11.5

Water Sampling Field Log

Well No.: M-81A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 41.60 feet Time: 0755

Depth to Water: 35.83 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 5.77 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 3.75 gal. * x 3 11 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0758	----	----	----	----	
0802	4 gal	7.36	4.76 mS/cm	26.3 °C	clear
0805	8 gal	7.28	4.75 mS/cm	25.9 °C	clear
0808	11 gal	7.30	4.56 mS/cm	25.4 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0810 Time Finished: 0810

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen -19.7'

Water Sampling Field Log

Well No.: M-83

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-29-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, clear, sunny

Well Information:

Total Well Depth: 41.75 feet Time: 0839

Depth to Water: 31.66 feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): 10.09 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 1.61 gal.	* 3	= 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0841	-----	-----	-----	-----	
0843	2 gal	7.27	4.05 mS/cm	25.2 °C	clear
0845	4 gal	7.32	4.09 mS/cm	24.5 °C	clear
0846	5 gal	7.28	4.11 mS/cm	24.4 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 0848 Time Finished: 0848

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Screen 10.8 - 40.3'

Water Sampling Field Log

Well No.: M-92

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-22-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm cloudy, breezy

Well Information:

Total Well Depth: 48.50 feet Time: 1237

Depth to Water: 36.06 feet

Well Diameter (circle one) — Well Volume (WV)

Height of Water Column (L): 12.44 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 1.99 gal. * x 3 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1241	-----	-----	-----	-----	
1243	2 gal	7.09	2.77 mS/cm	26.8°C	Slightly cloudy
1245	4 gal	7.29	2.77 mS/cm	25.2°C	clear
1247	6 gal	7.38	2.78 mS/cm	25.2°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1250 Time Finished: 1250

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-93

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, clear, sunny

Well Information:

Total Well Depth: 49.00 feet Time: 1208

Depth to Water: 35.22 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 13.78 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
---	---	---	---	---	
	gal				
	gal				
	gal				DTW only
					bailer stuck in well
					pump will not decend

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments:

Water Sampling Field Log

Well No.: M-95

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 30.0 feet Time: 1258

Depth to Water: 18.08 feet

Height of Water Column (L): 11.92 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 1.90 gal. * x 3 Well Volume (WV) legal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1259	-----	-----	-----	-----	
1301	2 gal	7.14	6.70 mS/cm	26.3°C	clear
1303	4 gal	7.16	6.46 mS/cm	25.4°C	clear
1305	6 gal	7.17	6.60 mS/cm	25.5°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1308 Time Finished: 1308

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 12

Dup EC 6.62 / EC 25.7 / Temp

Water Sampling Field Log

Well No.: M-96

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-26-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 116.90 feet Time: 1256

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				Well Dry
	gal				NO DATA, NO SAMPLE

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 10.5

Water Sampling Field Log

Well No.: M-97

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-22-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: breezy, warm, cloudy

Well Information:

Total Well Depth: 52.50 feet Time: 1256

Depth to Water: 39.89 feet

Well Diameter (circle one) 2-in. 4-in. 6-in Well Volume (WV)

Height of Water Column (L): 12.61 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.01 gal. * x 3 6 gal.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1259	-----	-----	-----	-----	
1301	2 gal	7.26	6.28 mS/cm	26.6 °C	clear
1303	4 gal	7.27	6.17 mS/cm	25.6 °C	clear
1305	6 gal	7.24	6.16 mS/cm	25.3 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1308 Time Finished: 1308

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Dup EC - 6.19 EC 25.6°C temp

Closing Q: 7.02

Water Sampling Field Log

Well No.: M-98

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 5-28-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny, Clear

Well Information:

Total Well Depth: 33.40 feet Time: 0938

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				Well considered dry
	gal				NO SAMPLE
					NO data

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 19

Water Sampling Field Log

Well No.: M-99

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 5-22-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer ◉ (Disposable) Ready Flo 2" O

Weather Conditions: cloudy, warm

Well Information:

Total Well Depth: 35.59 feet Time: 0840

Depth to Water: 33.63 feet

Height of Water Column (L): 1.96 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft / 4-in. 0.65 gal/ft / 6-in * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal	7.48	4.89 mS/cm	24.9 °C	slightly cloudy
	gal				
	gal				
					well not purged due to
					low water volume and
					location

Sample Appearance: /

Sample Collection - Time Started: 0843 Time Finished: 0843

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 16

Water Sampling Field Log

Well No.: M-100

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 5-29-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, clear, sunny

Well Information:

Total Well Depth: 33.81 feet Time: 0857

Depth to Water: _____ feet

Well Diameter (circle one) — Well Volume (WV)

2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				well dry
	gal				No Data, No Sample

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 19'

Water Sampling Field Log

Well No.: M-101

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Clear, Sunny.

Well Information:

Total Well Depth: 32.15 feet Time: 0855

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				Well Dry
	gal				No Data, No Sample

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 17'

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-103

Sample Collection Date: 5-19-15

Sampler's Name:

Sample Collection Time: NO Sample Taken

Purging Equipment:

Sampling Equipment:

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 90.0' Feet

Depth to Water: Feet Probe would not pass by pump at 71.60'

Pump Intake Depth: Feet

Pump Setting: PSI

Screened Interval: Feet

Pump / Tubing Type:

Equipment Cleaning Method:

Purge Water Disposal:

Actual Sample Depth: Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)

Total Water Volume Purged:

Comments: Could not sample well DUE to water level in casing being lower than Top of Pump.

9101 West Sahara Avenue, Suite 105-B32 -- Las Vegas, Nevada 89117-5772
Telephone: 702/254-6731 -- FAX 702/254-6446
Email Address: StewEnvir@aol.com

Water Sampling Field Log

Well No.: M-115

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-29-15

Sampling Method: Electric Pump ⊗ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 47.50 feet Time: 1226

Depth to Water: 37.99 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 9.51 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.52 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1229	-----	-----	-----	-----	
1231	2 gal	7.77	2.54 mS/cm	26.7°C	cloudy
1233	4 gal	7.64	2.52 mS/cm	25.8°C	cloudy
1234	5 gal	7.61	2.53 mS/cm	26.4°C	cloudy

Sample Appearance: cloudy

Sample Collection - Time Start: 1236 Time Finished: 1236

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen. 36

Dup Ec 26.8 / temp 2.54 / Ec

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 15-516.1

Well Number: M-117

Sampler's Name: Bryce Gano

Purging Equipment: Dedicated micro purge pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 155.0 Feet

Depth to Water: 70.75 Feet

Pump Intake Depth: ? Feet

Pump Setting: 79 PSI

Screened Interval: 130-150 Feet

Pump / Tubing Type: QED/poly

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Environgen holding pond

Actual Sample Depth: ? Feet

Sample Collection Date: 5-20-15

Sample Collection Time: 6:25

Sampling Equipment: Dedicated pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
6:01	100	300	71.65	1.23	22.87	4.91	8.13	8.37	107	
6:04	100	600	71.77	1.14	23.04	4.63	8.08	7.80	112	
6:07	100	900	72.06	1.21	23.40	4.02	8.39	7.31	100	
6:10	100	1200	72.18	1.21	23.47	3.71	8.43	7.13	99	
6:13	100	1500	72.23	1.21	23.51	3.37	8.45	7.10	98	
6:16	100	1800	72.31	1.20	23.58	3.03	8.45	7.08	98	

Total Water Volume Purged: 1,800 ml

Comments:

9101 West Sahara Avenue, Suite 105-B32 -- Las Vegas, Nevada 89117-5772
Telephone: 702/254-6731 -- FAX 702/254-6446
Email Address: StewEnvir@aol.com

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-118

Sample Collection Date: 5-19-13

Sampler's Name: Bryce

Sample Collection Time: 13:00

Purging Equipment: Dedicated micro Purge pump

Sampling Equipment: Dedicated pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 163.0 Feet

Depth to Water: 66.64 Feet

Pump Intake Depth: ? Feet

Pump Setting: 57-62 PSI 90 PSI

Screened Interval: 138 - 158 Feet

Pump / Tubing Type: QED/poly

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Envirogen Holding Pond.

Actual Sample Depth: ? Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
12:42	25	75	67.13	1.28	27.93	1.2	7.25	6.67	139	
12:45	25	100	67.54	1.24	27.21	1.4	7.70	6.53	123	
12:48	25	125	67.68	1.24	26.58	2.7	7.56	6.31	121	
12:51	25	150	67.73	1.23	26.16	3.1	7.68	6.25	123	
12:54	25	175	67.81	1.22	26.05	3.7	7.67	6.30	122	
12:57	25	200	67.87	1.22	25.91	3.9	7.71	6.32	124	

Total Water Volume Purged: 200 ml

Comments:

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Telephone: 702/254-6731 -- FAX 702/254-6446
Email Address: StewEnvir@aol.com

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-120

Sample Collection Date: 6-19-15

Sampler's Name: B. YaeTsao

Sample Collection Time: 11:51

Purging Equipment: Dedicated micro purge pump

Sampling Equipment: Dedicated pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 105.0' Feet

Depth to Water: 83.96 Feet

Pump Intake Depth: 90.0' Feet

Pump Setting: 14.5-19.5 PSI Actual 40 PSI

Screened Interval: 80'-100' Feet

Pump / Tubing Type: QED/POLY

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Enviroogen Holding Pond

Actual Sample Depth: 90.0' Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
11:30	200	600	84.21	2.71	24.13	10.71	7.95	7.17	143	
11:33	200	1200	84.27	2.75	23.76	14.94	7.80	5.85	149	
11:36	200	1800	84.30	2.77	23.68	53.5	7.75	5.42	150	
11:39	200	2400	84.32	2.82	23.55	30.5	7.66	3.97	149	
11:42	200	3000	84.35	2.83	23.44	30.2	7.67	3.67	146	
11:45	200	3600	84.37	2.77	23.50	23.1	7.68	3.63	143	
11:48	200	4200	84.38	2.76	23.47	22.3	7.66	3.57	140	

Total Water Volume Purged: 4,200 ml

Comments:

9101 West Sahara Avenue, Suite 105-B32 -- Las Vegas, Nevada 89117-5772
Telephone: 702/254-6731 -- FAX 702/254-6446
Email Address: StewEnvir@aol.com

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-121

Sampler's Name: Bryce Tsao

Purging Equipment: Dedicated micro Purge pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 102.0' Feet

Depth to Water: 79.52 Feet

Pump Intake Depth: ? Feet

Pump Setting: 50 PSI

Screened Interval: 77-97' Feet

Pump / Tubing Type: QED / poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen Holding pond.

Actual Sample Depth: ? Feet

Sample Collection Date: 5-19-15

Sample Collection Time: 13:48

Sampling Equipment: Dedicated micro pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
1330	150	450	79.72	4.20	20.81	22.2	7.59	6.99	134	
1333	150	900	79.74	5.42	25.80	196	7.59	6.52	142	
1336	150	1350	79.74	5.81	25.57	96.5	7.55	6.42	144	
1339	150	1800	79.76	5.87	25.53	43.8	7.54	6.41	141	
1342	150	2250	79.76	5.92	25.47	29.3	7.54	6.38	141	
1345	150	2700	79.77	5.91	25.43	28.1	7.56	6.37	141	

Total Water Volume Purged: 2700 ml

Comments:

9101 West Sahara Avenue, Suite 105-B32 -- Las Vegas, Nevada 89117-5772
Telephone: 702/254-6731 -- FAX 702/254-6446
Email Address: StewEnvir@aol.com

outside Fence south Ap LAB

Water Sampling Field Log

Well No.: M-123

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-3-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 55.60 feet Time: 0745

Depth to Water: 41.42 feet

Height of Water Column (L): 14.18 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 2.26 gal. * x 3 Well Volume (WV) 7 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0741	-----	-----	-----	-----	
0744	3 gal	7.37	19.14 mS/cm	26.17°C	clear
0746	5 gal	7.42	19.74 mS/cm	25.6°C	clear
0748	7 gal	7.36	19.83 mS/cm	25.5°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0749 Time Finished: 0749

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 36'

old salt house

Water Sampling Field Log

Well No.: M-124

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-3-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 53.39 feet Time: 0820

Depth to Water: 36.84 feet

Height of Water Column (L): 16.55 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = Well Volume (WV) 2.64 gal. * x 3 8 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0830	-----	-----	-----	-----	
0833	3 gal	7.73	4.28 mS/cm	26.0 °C	Clear
0836	4 gal	7.72	4.01 mS/cm	26.1 °C	Clear
0838	8 gal	7.65	3.92 mS/cm	26.1 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0840 Time Finished: 0840

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

ents: Top of screen - 34'
Dup-5 collected here for same analyses 0840 3 bttls

North of AP Lab by old RR Tracks

Water Sampling Field Log

Well No.: N-125

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-3-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Clear, sunny

Well Information:

Total Well Depth: 54.0 feet Time: 0707

Depth to Water: 38.67 feet

Height of Water Column (L): 15.33 feet * (Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft) = 2.45 gal. * x 3 Well Volume (WV) 7 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0709	-----	-----	-----	-----	
0712	3 gal	7.38	17.04 mS/cm	25.3 °C	Clear
0715	5 gal	7.33	16.84 mS/cm	25.2 °C	Clear
0719	7 gal	7.32	16.94 mS/cm	25.2 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0718 Time Finished: 0718

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3 MB

Comments: Top of screen · 35'

Water Sampling Field Log

Well No.: M-126

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, windy, overcast

Well Information:

Total Well Depth: 40.0 feet Time: 1120

Depth to Water: 34.99 feet

Height of Water Column (L): 5.01 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = .80 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1122	-----	-----	-----	-----	
1124	1 gal	7.26	12.92 mS/cm	24.6 °C	cloudy
1125	2 gal	7.23	17.08 mS/cm	24.7 °C	slightly cloudy
1126	3 gal	7.21	17.11 mS/cm	23.1 °C	very slightly cloudy

Sample Appearance: _____

Sample Collection - Time Start: 1128 Time Finished: 1128

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 19.7'
closing QC 7.0

Outside fence south AP Change house

Water Sampling Field Log

Well No.: M-128

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-3-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm sunny, clear.

Well Information:

Total Well Depth: 58.60 feet Time: 0803

Depth to Water: 41.84 feet

Height of Water Column (L): 16.76 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = 2.68 gal. * x 3 Well Volume (WV) 8 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0807	-----	-----	-----	-----	
0810	3 gal	7.84	4.07 mS/cm	25.2°C	clear
0813	6 gal	7.70	3.61 mS/cm	24.9°C	clear
0815	8 gal	7.65	3.62 mS/cm	25.6°C	clear
0816	9	7.64	3.49 mS/cm	24.9°C	clear

Sample Appearance: Clear.

Sample Collection - Time Start: 0816 Time Finished: 0816

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3 MB

Comments: Top of screen - 40'

Water Sampling Field Log

Well No.: M-131

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, overcast, breezy

Well Information:

Total Well Depth: 39.0 feet Time: 1041

Depth to Water: 33.82 feet

Height of Water Column (L): 5.18 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = .82 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1044	-----	-----	-----	-----	
1046	1 gal	7.66	4.61 mS/cm	23.7 °C	Clear
1047	2 gal	7.65	4.57 mS/cm	23.9 °C	Clear
1048	3 gal	7.58	4.55 mS/cm	24.0 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1050 Time Finished: 1050

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 28.7

Dup EC 4.58 / EC 23.8 / temp

Water Sampling Field Log

Well No.: M-132

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 4-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 90.22 feet Time: 0803

Depth to Water: 24.37 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 65.63 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 10.5 gal. * x 3 Well Volume (WV) 32 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0806	-----	-----	-----	-----	
0816	11 gal	7.74	1.87 mS/cm	27.2°C	clear
0826	22 gal	7.75	1.91 mS/cm	26.8°C	clear
0835	32 gal	7.75	2.14 mS/cm	28.0°C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0837 Time Finished: 0837

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 79.7

North I-K

Water Sampling Field Log

Well No.: M-133

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny & clear

Well Information:

Total Well Depth: 70.0 feet Time: 0725

Depth to Water: 26.12 feet

Height of Water Column (L): 43.88 feet * 0.16 gal/ft (2-in.) / * 0.65 gal/ft (4-in.) / * 1.47 gal/ft (6-in) = 7.02 gal. * x 3 21 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0732	-----	-----	-----	-----	
0739	7 gal	7.52	6.10 mS/cm	24.5°C	clear
0746	14 gal	7.50	6.49 mS/cm	24.8°C	clear
0753	21 gal	7.41	6.48 mS/cm	25.8°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0755 Time Finished: 0755

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 59.7

Water Sampling Field Log

Well No.: M-134

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, overcast, breezy

Well Information:

Total Well Depth: 70.0 feet Time: 1008

Depth to Water: 34.67 feet

Height of Water Column (L): 35.33 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 5.65 gal. * x 3 17 gal

Well Volume (WV)

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1011	-----	-----	-----	-----	
1016	4 gal	7.72	3.65 mS/cm	23.3 °C	Clear
1021	12 gal	7.63	3.52 mS/cm	23.9 °C	Clear
1025	17 gal	7.60	3.61 mS/cm	24.3 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1027 Time Finished: 1027

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 59.7

Closing Qc 7.01

Water Sampling Field Log

Well No.: M-135

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Cool, breezy, clouds

Well Information:

Total Well Depth: 39.0 feet Time: ~~0855~~ MB 0955

Depth to Water: 34.69 feet

Height of Water Column (L): 4.31 feet * Well Diameter (circle one): (2-in.) 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .68 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0958	-----	-----	-----	-----	
1000	1 gal	7.65	4.68 mS/cm	22.3 °C	slightly cloudy
1001	2 gal	7.63	4.65 mS/cm	22.3 °C	slightly cloudy
1002	3 gal	7.58	4.66 mS/cm	21.6 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1005 Time Finished: 1005

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 28.7

Water Sampling Field Log

Well No.: M-136

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: sunny, breezy, cool

Well Information:

Total Well Depth: 90.0 feet Time: 0915

Depth to Water: 30.11 feet

Height of Water Column (L): 59.89 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 9.58 gal. * x 3 Well Volume (WV) 29 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0922	-----	-----	-----	-----	
0930	10 gal	7.89	2.00 mS/cm	23.8 °C	clear
0938	20 gal	7.90	1.96 mS/cm	23.9 °C	Clear
0945	29 gal	7.94	1.94 mS/cm	23.9 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0949 Time Finished: 0949

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 79.7'

Ind supply

Water Sampling Field Log

Well No.: M-137

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-3-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 75.0 feet Time: 0909

Depth to Water: 58.78 feet

Height of Water Column (L): 16.22 feet

Well Diameter (circle one): 2-in. (0.16 gal/ft) 4-in. (* 0.65 gal/ft) 6-in (* 1.47 gal/ft) = 2.59 gal. * x 3 Well Volume (WV) 8 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0914	-----	-----	-----	-----	
0917	3 gal	7.66	3.13 mS/cm	28.0°c	clear
0920	6 gal	7.54	2.89 mS/cm	28.8°c	clear
0922	8 gal	7.51	2.86 mS/cm	28.1°c	clear

Sample Appearance: clear

Sample Collection - Time Start: 0923 Time Finished: 0923

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 52'

Indus. Supply

Water Sampling Field Log

Well No.: M-138

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-3-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 65.0 feet Time: 0935

Depth to Water: 51.82 feet

Height of Water Column (L): 7.18 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft

= 1.14 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0938	-----	-----	-----	-----	
0940	2 gal	7.68	315 mS/cm	27.4°c	clear
0941	3 gal	7.66	3.13 mS/cm	26.9°c	clear
0942	4 gal	7.48	3.07 mS/cm	27.3°c	clear

Sample Appearance: Clear

Sample Collection - Time Start: 0943 Time Finished: 0943

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen. 52'
EB-15 collected here
before moving to next well
3 btls 0955 CR, CRVI, TDS
pH, CLO4

Water Sampling Field Log

Well No.: M-139

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, sunny, breezy

Well Information:

Total Well Depth: 60.0 feet Time: 1048

Depth to Water: 37.12 feet

Height of Water Column (L): 22.88 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 3.66 gal. * x 3 Well Volume (WV) 11 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1054	-----	-----	-----	-----	
1058	4 gal	7.86	3.47 mS/cm	27.3 °C	clear
1101	8 gal	7.84	3.30 mS/cm	26.6 °C	clear
1104	11 gal	7.75	3.31 mS/cm	26.7	clear

Sample Appearance: clear

Sample Collection - Time Start: 1106 Time Finished: 1106

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 45'

closing QC 6.99

Water Sampling Field Log

Well No.: M-140

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-8-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O sample port •

Weather Conditions: cool,

Well Information:

Total Well Depth: 43.0 feet Time: 0615

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
---	---	---	---	---	
0615	gal	7.39	8.51 mS/cm	21.2°C	clear
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: 0615 Time Finished: 0615

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: No Access into well to collect a DTW reading
sample collected from spigot on discharge line

Water Sampling Field Log

Well No.: M-141

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, breezy, clear

Well Information:

Total Well Depth: 48.30 feet Time: 1151

Depth to Water: 43.52 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 4.78 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .76 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1154	-----	-----	-----	-----	
1156	1 gal	7.30	6.54 mS/cm	27.7 °C	light yellow
1157	2 gal	7.34	6.42 mS/cm	26.2 °C	light yellow
1158	3 gal	7.27	6.45 mS/cm	25.9 °C	light yellow

Sample Appearance: light yellow

Sample Collection - Time Start: 1159 Time Finished: 1159

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen. 37.5'

EB-14 collected here 1205 before moving to next well

~~Same~~ analyses are 3 bottles CR, CRVI, TDS, pH, Clo4

Water Sampling Field Log

Well No.: M-142

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 45.86 feet Time: 0941

Depth to Water: 31.19 feet

Height of Water Column (L): 14.67 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 2.34 gal. * x 3 Well Volume (WV) 7 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0944	-----	-----	-----	-----	
0947	3 gal	7.66	3.48 mS/cm	25.9 °C	muddy
0949	5 gal	7.65	3.44 mS/cm	25.3 °C	slightly cloudy
0951	7 gal	7.58	3.42 mS/cm	25.1 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0952 Time Finished: 0952

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 30'

Water Sampling Field Log

Well No.: M-144

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, breezy, sunny

Well Information:

Total Well Depth: 45.0 feet Time: 0828

Depth to Water: 38.79 feet

Height of Water Column (L): 6.21 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) | 4-in. * 0.65 gal/ft | 6-in * 1.47 gal/ft

= .99 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0836	-----	-----	-----	-----	
0838	1 gal	7.81	5.76 mS/cm	28.2 °C	clear
0839	2 gal	7.80	5.12 mS/cm	27.6 °C	clear
0840	3 gal	7.78	4.79 mS/cm	27.8 °C	clear
0841	4	7.77	5.01 mS/cm	27.0	clear

Sample Appearance: _____

Sample Collection - Time Start: 0841 Time Finished: 0841

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 35'

Water Sampling Field Log

Well No.: M-145

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, sunny, breezy

Well Information:

Total Well Depth: 60.0 feet Time: 1009

Depth to Water: 39.19 feet

Height of Water Column (L): 20.81 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 3.32 gal. * x 3 Well Volume (WV) 10 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1013	-----	-----	-----	-----	
1017	4 gal	7.25	3.78 mS/cm	28.1 °C	black (manganese)
1022	7 gal	7.36	3.40 mS/cm	28.3 °C	black
1025	10 gal	7.37	3.54 mS/cm	28.6 °C	black

Sample Appearance: black

Sample Collection - Time Start: 1026 Time Finished: 1026

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen- 45'

Water Sampling Field Log

Well No.: M-146

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breezy

Well Information:

Total Well Depth: 50.0 feet Time: 0851

Depth to Water: 35.96 feet

Height of Water Column (L): 14.74 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 2.35 gal. * x 3 = 7 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0854	-----	-----	-----	-----	
0857	3 gal	7.71	5.33 mS/cm	26.5 °C	clear
0859	5 gal	7.66	5.14 mS/cm	26.2 °C	clear
0902	7 gal	7.61	5.09 mS/cm	26.3 °C	clear

Sample Appearance: Clear

Sample Collection - Time Start: 0903 Time Finished: 0903

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 40'

Water Sampling Field Log

Well No.: M-147

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 40.0 feet Time: 0916

Depth to Water: 36.37 feet

Well Diameter (circle one) — 2-in. 4-in. 6-in — Well Volume (WV)

Height of Water Column (L): 3.63 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .58 gal. * x 3 2 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0920	-----	-----	-----	-----	
0921	1 gal	7.73	5.22 mS/cm	27.2°c	muddy
0922	1.5 gal	7.52	4.89 mS/cm	27.9°c	muddy
0923	2.0 gal	7.50	4.84 mS/cm	27.7°c	muddy

Sample Appearance: muddy

Sample Collection - Time Start: 0923 Time Finished: 0923

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 25'

Water Sampling Field Log

Well No.: M-148A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, breezy, clear

Well Information:

Total Well Depth: 52.30 feet Time: 1127

Depth to Water: 47.49 feet

Height of Water Column (L): 4.81 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft | 4-in. * 0.65 gal/ft | 6-in * 1.47 gal/ft = .76 gal. * x 3 = 3 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1133	-----	-----	-----	-----	
1135	1 gal	7.63	5.50 mS/cm	28.4°C	very slightly cloudy
1136	2 gal	7.37	5.49 mS/cm	28.3°C	clear
1137	3 gal	7.30	5.43 mS/cm	28.7°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1138 Time Finished: 1138

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 39.7

Dup EC 29.0 / 5.44
Temp EC

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-179

Sample Collection Date: 5-20-15

Sampler's Name: Bryce Tsao

Sample Collection Time: 8:50

Purging Equipment: Dedicated micro purge pump

Sampling Equipment: Dedicated pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 120 Feet

Depth to Water: 45.42 Feet

Pump Intake Depth: 110 Feet

Pump Setting: 50 PSI

Screened Interval: 100-120 Feet

Pump / Tubing Type: QED/Poly

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Envirogen Holding Pond

Actual Sample Depth: 110 Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
8:24	100	300	47.12	1.33	23.91	1.79	6.59	3.73	177	
8:27	100	600	47.98	1.36	23.84	3.07	6.09	3.50	216	
8:30	100	900	48.58	1.38	23.95	7.93	6.43	3.60	213	
8:33	100	1200	49.03	1.37	24.01	7.57	6.67	3.60	205	
8:36	100	1500	49.43	1.37	24.15	6.53	6.77	3.57	199	
8:39	100	1800	49.91	1.37	24.21	6.31	6.82	3.60	198	
8:42	100	2100	50.37	1.37	24.29	6.71	6.83	3.71	194	
8:45	100	2400	50.73	1.37	24.27	5.91	6.87	3.67	191	

Total Water Volume Purged: 2,400 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 12-516.1

Well Number: M-150

Sampler's Name: Bryce Tsao

Purging Equipment: Dedicated micro purge pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 145.0 Feet

Depth to Water: 23.48 Feet

Pump Intake Depth: 137.5 Feet

Pump Setting: 60 PSI

Screened Interval: 125 - 145 Feet

Pump / Tubing Type: QED / poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Enviroglen holding Pond

Actual Sample Depth: 137.5 Feet

Sample Collection Date: 5-20-19

Sample Collection Time: 13:35

Sampling Equipment: Dedicated pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
13:05	100	300	24.54	.843	25.96	2.84	7.47	7.12	86	
1308	100	600	25.25	.846	25.47	2.45	6.18	6.30	133	
1311	100	900	25.92	.827	25.61	3.37	6.49	6.35	131	
1314	100	1200	26.79	.845	26.03	4.13	6.52	6.28	128	
1317	100	1500	27.05	.785	25.83	6.51	6.71	6.27	94	
1320	100	1800	27.45	.776	25.61	7.36	7.17	6.23	97	
1323	100	2100	28.56	.781	25.70	7.23	7.21	6.25	95	
1326	100	2400	28.79	.782	25.72	7.03	7.23	6.31	93	

Total Water Volume Purged: 2,400 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-151

Sampler's Name: Brian Tsao

Purging Equipment: Dedicated micro purge pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 145. Feet

Depth to Water: 18.74 Feet

Pump Intake Depth: 137.5 Feet

Pump Setting: 35 PSI

Screened Interval: 125-145 Feet

Pump / Tubing Type: QED/Poly

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Emrogen holding Pond

Actual Sample Depth: 137.5 Feet

Sample Collection Date: 5-26-15

Sample Collection Time: 12:43

Sampling Equipment: Dedicated pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
12:15	100	300	19.94	.858	24.87	1.18	6.84	2.52	188	
12:18	100	600	20.59	.852	25.08	.79	7.14	1.87	177	
12:21	100	900	21.56	.853	24.71	1.96	7.32	2.12	165	
12:24	100	1200	22.01	.849	25.42	.86	7.52	1.76	159	
12:27	100	1500	22.71	.848	25.49	1.26	7.58	1.81	156	
12:30	100	1800	23.51	.849	25.09	.82	7.63	1.69	153	
12:33	100	2100	24.20	.850	25.14	.73	7.65	1.65	151	
12:36	100	2400	24.87	.850	24.95	.67	7.66	1.61	151	

Total Water Volume Purged: 2,400 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-152

Sample Collection Date: 5-21-15

Sampler's Name: Bryce Tsao

Sample Collection Time: 7:50

Purging Equipment: Dedicated micro purge pump

Sampling Equipment: Dedicated pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 145.0 Feet

Depth to Water: 27.28 Feet

Pump Intake Depth: 135 Feet

Pump Setting: 45 PSI

Screened Interval: 125-145 Feet

Pump / Tubing Type: QED/poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Emmogen holding Pond

Actual Sample Depth: 135 Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
7:28	100	300	29.10	.973	22.90	1.55	8.14	2.10	248	
7:31	100	600	29.56	.962	23.36	5.50	8.16	1.71	240	
7:34	100	900	29.70	.960	23.33	5.66	8.24	1.76	233	
7:37	100	1200	29.72	.960	23.34	4.86	8.25	1.81	227	
7:40	100	1500	29.50	.960	23.20	3.85	8.27	1.87	223	
7:43	100	1800	29.51	.957	23.29	3.27	8.26	1.88	221	
7:46	100	2100	29.57	.956	23.33	2.98	8.25	1.86	219	

Total Water Volume Purged: 2,100 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-153

Sampler's Name: BMCETSOC

Purging Equipment: Dedicated micro purge pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 170 Feet

Depth to Water: 30.49 Feet

Pump Intake Depth: 160 Feet

Pump Setting: SS PSI

Screened Interval: 150-170 Feet

Pump / Tubing Type: QED/poly

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Envirogen holding Pond.

Actual Sample Depth: 160 Feet

Sample Collection Date: 5-20-15

Sample Collection Time: 9:20

Sampling Equipment: Dedicated Pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
8:55	100	300	31.70	.958	24.13	.54	7.93	3.21	157	
8:58	100	600	32.35	.953	24.30	1.04	8.45	1.50	128	
9:01	100	900	33.19	.947	24.31	1.23	8.27	.93	108	
9:04	100	1200	33.98	.947	24.44	1.67	8.24	.91	61	
9:07	100	1500	34.71	.949	24.49	2.13	8.23	.86	51	
9:10	100	1800	35.30	.948	24.56	1.98	8.22	.83	47	
9:13	100	2100	35.90	.949	24.55	1.77	8.22	.81	45	

Total Water Volume Purged: 2,100 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-154

Sampler's Name: Bryce Tsao

Purging Equipment: Dedicated micro Purge Pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 195 Feet

Depth to Water: 11.63 Feet

Pump Intake Depth: 187 Feet

Pump Setting: 105 PSI

Screened Interval: 175-195 Feet

Pump / Tubing Type: PED / poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen holding Pond

Actual Sample Depth: 187 Feet

Sample Collection Date: 5-20-15

Sample Collection Time: 12:55

Sampling Equipment: Dedicated pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
12:28	100	300	14.40	.889	25.13	2.92	7.72	3.61	124	
12:31	100	600	15.12	.921	25.21	7.15	7.33	6.63	49	
12:34	100	900	15.83	.922	25.25	5.11	7.58	6.70	18	
12:37	100	1200	16.34	.914	25.27	5.47	7.82	5.53	9	
12:40	100	1500	16.86	.920	25.28	4.18	7.86	6.67	4	
12:43	100	1800	17.45	.911	25.36	3.46	7.89	6.60	17	
12:46	100	2100	17.96	.903	25.43	3.25	7.93	6.58	18	
12:49	100	2400	18.23	.897	25.47	2.96	7.91	6.57	19	
12:52	100	2700	18.61	.901	25.49	2.61	7.92	6.55	19	

Total Water Volume Purged: 2,700 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-155

Sampler's Name: Bryce Tsao

Purging Equipment: QED micro purge pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 220.0 Feet

Depth to Water: 0.0 Feet

Pump Intake Depth: 210.0 Feet

Pump Setting: 120 PSI

Screened Interval: 200-220 Feet

Pump / Tubing Type: QED / Poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen Holding Pond

Actual Sample Depth: 210 Feet

Sample Collection Date: 5-26-15

Sample Collection Time: 1333

Sampling Equipment: QED micro purge pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
1303	100	300	1.02	1.01	27.79	4.82	8.76	1.78	101	
1306	100	600	2.03	.983	26.95	9.69	8.20	2.23	128	
1309	100	900	2.67	.950	27.10	5.45	7.99	3.49	141	
1312	100	1200	3.61	.946	26.91	6.57	7.91	3.44	146	
1315	100	1500	4.41	.948	27.05	5.83	8.11	3.21	132	
1318	100	1800	5.10	.948	26.94	5.97	8.09	2.68	137	
1321	100	2100	5.71	.947	26.74	5.58	8.05	2.65	139	
1324	100	2400	6.40	.949	26.84	5.09	8.0	2.81	141	
1327	100	2700	6.98	.951	26.80	5.13	7.99	2.83	142	

Total Water Volume Purged: 2,700 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-15G

Sampler's Name: Bryce Tsao

Purging Equipment: Dedicated micro purge pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 195.0 Feet

Depth to Water: 20.46 Feet

Pump Intake Depth: 185.0 Feet

Pump Setting: 40 PSI

Screened Interval: 175 - 195 Feet

Pump / Tubing Type: QED / Poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen holding Pond

Actual Sample Depth: 185 Feet

Sample Collection Date: 5-21-15

Sample Collection Time: 8:37

Sampling Equipment: Dedicated pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
8:17	100	300	21.64	.955	23.30	1.11	7.88	4.12	-72	
8:20	100	600	22.35	.950	23.54	.50	7.99	1.45	-98	
8:23	100	900	22.68	.948	23.68	.35	8.08	1.34	-114	
8:26	100	1200	23.33	.944	23.86	.16	8.21	1.29	-123	
8:29	100	1500	23.95	.944	23.96	.15	8.26	1.26	-122	
8:32	100	1800	24.55	.943	23.94	.23	8.29	1.23	-120	

Total Water Volume Purged: 1,800 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-161

Sample Collection Date: 5-20-15

Sampler's Name: BrYce Tsoo

Sample Collection Time: 8:00

Purging Equipment: Dedicated micro purge pump

Sampling Equipment: Dedicated pump

Casing Type: PVC

Casing Diameter: 2" inches

Depth to Well Bottom: 110.0' Feet

Depth to Water: 23.75 Feet

Pump Intake Depth: 107.0' Feet

Pump Setting: 55 PSI

Screened Interval: 99.7'-109.7' Feet

Pump / Tubing Type: QED/Poly

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Envirogen holding Pond

Actual Sample Depth: 107 Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
7:30	100	100	25.27	.991	22.56	7.97	7.81	7.1	111	
7:33	100	300	25.64	.994	23.31	6.73	7.91	7.43	112	
7:36	50	450	25.84	.990	23.38	5.30	8.02	7.04	114	
7:39	50	600	26.09	.989	23.45	7.41	8.04	6.85	117	
7:42	50	750	26.44	.983	23.65	7.45	7.98	6.41	118	
7:45	50	900	26.72	.976	23.80	7.45	8.02	6.63	117	
7:48	50	1050	26.97	.975	23.91	6.56	8.03	6.35	111	
7:51	50	1200	27.18	.975	23.96	6.32	8.07	6.28	116	
7:54	50	1350	27.33	.975	24.0	5.37	8.03	6.19	119	
7:57	50	1500	27.52	.975	24.03	5.21	8.05	6.15	118	

Total Water Volume Purged: 1,500 ml

Comments:

9101 West Sahara Avenue, Suite 105-B32 -- Las Vegas, Nevada 89117-5772
Telephone: 702/254-6731 -- FAX 702/254-6446
Email Address: StewEnvir@aol.com

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-162

Sampler's Name: Bryce Tsao

Purging Equipment: Dedicated micro Purge Pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 110.0 Feet

Depth to Water: 23.36 Feet

Pump Intake Depth: 107.0 Feet

Pump Setting: 60 PSI

Screened Interval: 99.7 - 109.7 Feet

Pump / Tubing Type: QED / Poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen holding pond

Actual Sample Depth: 107 Feet

Sample Collection Date: 5-20-15

Sample Collection Time: 9:00

Sampling Equipment: Dedicated pump.

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
8:34	100	300	24.21	1.33	24.54	3.3	7.41	4.1	178	
8:37	100	600	24.42	1.27	24.57	4.2	7.71	4.31	176	
8:40	100	900	25.16	1.36	24.72	4.2	8.15	5.74	165	
8:43	100	1200	25.25	1.37	24.83	4.59	8.21	5.77	164	
8:46	100	1,500	25.52	1.43	24.84	7.49	8.28	6.61	156	
8:49	100	1800	25.75	1.41	24.87	4.02	8.28	6.64	154	
8:52	100	2100	25.73	1.42	24.93	3.01	8.27	6.67	160	
8:55	100	2400	25.78	1.44	24.92	2.47	8.28	6.73	157	

Total Water Volume Purged: 2,400 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-163

Sampler's Name: Bryce Tsao

Purging Equipment: Dedicated micro purge pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 90 Feet

Depth to Water: 28.12 Feet

Pump Intake Depth: 87.0 Feet

Pump Setting: 50 PSI

Screened Interval: 79.7-89.7 Feet

Pump / Tubing Type: QED/poly

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Envirogen holding pond

Actual Sample Depth: 87.0 Feet

Sample Collection Date: 5-20-15

Sample Collection Time: 11:00

Sampling Equipment: Dedicated pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
10:32	100	300	29.73	.951	25.21	3.67	8.13	4.13	136	
10:35	100	600	31.22	.946	25.13	21.4	8.24	4.18	134	
10:38	100	900	32.51	.944	25.07	11.75	8.23	6.71	133	
10:41	100	1200	33.0	.943	25.13	11.32	8.16	3.54	136	
10:44	100	1500	33.21	.942	25.19	10.55	8.13	6.43	153	
10:47	100	1800	33.70	.941	25.25	8.92	8.15	5.92	137	
10:50	100	2100	33.98	.942	25.25	8.03	8.15	5.95	134	
10:53	100	2400	34.41	.943	25.27	7.66	8.16	5.93	135	
10:56	100	2700	34.65	.942	25.30	7.43	8.15	5.91	136	

Total Water Volume Purged: 2,700 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-164

Sampler's Name: BrYce TSod

Purging Equipment: Dedicated micro Purge pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 70.0 Feet

Depth to Water: 34.97 Feet

Pump Intake Depth: 64.0 Feet

Pump Setting: 40 PSI

Screened Interval: 59.7-69.7 Feet

Pump / Tubing Type: QED/poly

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Envirogen holding Pond

Actual Sample Depth: 64 Feet

Sample Collection Date: 5-20-15

Sample Collection Time: 9:55

Sampling Equipment: Dedicated pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
9:22	100	300		6.17	24.65	7.58	7.44	2.81	182	
9:25	100	600		6.05	24.87	7.98	7.59	2.53	178	
9:28	100	900	37.28	5.86	24.81	10.83	7.65	2.10	172	
9:31	100	1200	37.45	5.85	25.14	9.87	7.60	1.99	173	
9:34	100	1500	37.62	5.85	25.17	4.35	7.48	1.94	177	
9:37	100	1800	37.50	5.82	25.31	3.27	7.45	2.12	171	
9:40	100	2100	37.49	5.82	25.42	2.33	7.37	1.80	169	
9:43	100	2400	37.56	5.83	25.31	2.53	7.39	1.83	170	
9:46	100	2700	37.81	5.80	25.0	2.41	7.34	1.91	173	
9:49	100	3000	37.91	5.73	25.30	2.74	7.33	1.79	176	

Total Water Volume Purged: 3000 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-16S

Sampler's Name: Dylce Bad

Purging Equipment: Dedicated micro purge pump

Sample Collection Date: 5-20-15

Sample Collection Time: 10:48

Sampling Equipment: Dedicated pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 120 Feet

Depth to Water: 21.91 Feet

Pump Intake Depth: 114 Feet

Pump Setting: 60 PSI

Screened Interval: 109.7-119.7 Feet

Pump / Tubing Type: QED / poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Environgen holding pond

Actual Sample Depth: 114 Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
10:25	100	300	23.24	.853	26.33	.67	6.81	5.15	184	
10:28	100	600	23.42	.844	26.17	1.12	7.91	1.66	128	
10:31	100	900	23.97	.842	26.24	2.01	8.37	1.41	104	
10:34	100	1200	24.49	.842	26.17	2.74	8.63	1.27	96	
10:37	100	1500	25.03	.839	26.10	2.33	8.61	1.18	93	
10:40	100	1800	25.50	.839	26.12	2.34	8.61	1.17	93	
10:43	100	2100	25.94	.838	26.17	2.28	8.59	1.18	93	

Total Water Volume Purged: 2,100 ml

Comments:

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Water Sampling Field Log

Well No.: M-11e6

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, clouds

Well Information:

Total Well Depth: 32.00 feet Time: 0825

Depth to Water: 29.72 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 2.28 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 21.7

Water Sampling Field Log

Well No.: M-167

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sun, some clouds

Well Information:

Total Well Depth: 30.0 feet Time: 0753

Depth to Water: 28.81 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 1.19 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 19.7'

Water Sampling Field Log

Well No.: M-1168

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, some clouds

Well Information:

Total Well Depth: 35.0 feet Time: 0943

Depth to Water: 26.41 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 8.59 feet (0.16 gal/ft) * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				DTW ONLY
	gal				NO SAMPLE
	gal				

Sample Appearance: /

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 21.7

Water Sampling Field Log

Well No.: M-169

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, clouds

Well Information:

Total Well Depth: 35.0 feet Time: 0741

Depth to Water: 28.72 feet

Well Diameter (circle one) Well Volume (WV)

2-in. 4-in. 6-in

Height of Water Column (L): 6.28 feet * 0.16 gal/ft / 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen- 24.7

Water Sampling Field Log

Well No.: M-170

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, clouds

Well Information:

Total Well Depth: 35.0 feet Time: 0933

Depth to Water: 29.69 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 5.31 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 24.7

Water Sampling Field Log

Well No.: M-172

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Cool, clouds

Well Information:

Total Well Depth: 37.0 feet Time: 0636

Depth to Water: 33.52 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 3.48 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 26.7

Water Sampling Field Log

Well No.: M-173

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-4-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: COOL

Well Information:

Total Well Depth: 40.0 feet Time: 0557

Depth to Water: 29.52 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 10.48 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen ~ 24.7

Water Sampling Field Log

Well No.: M-174

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-22-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, cloudy

Well Information:

Total Well Depth: 28.0 feet Time: 0643

Depth to Water: 20.75 feet

Well Diameter (circle one) 2-in. 4-in. 6-in Well Volume (WV)

Height of Water Column (L): 7.25 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 17.7

Water Sampling Field Log

Well No.: M-175

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-22-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, cloudy

Well Information:

Total Well Depth: 29.0 feet Time: 0642

Depth to Water: 21.56 feet

Well Diameter (circle one) — Well Volume (WV)

Height of Water Column (L): 7.44 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 18.7

Water Sampling Field Log

Well No.: M-176

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-22-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, cloudy

Well Information:

Total Well Depth: 30.0 feet Time: 0640

Depth to Water: 24.22 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 5.78 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 19.7

Water Sampling Field Log

Well No.: M-177

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-22-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, cloudy

Well Information:

Total Well Depth: 30.0 feet Time: 0638

Depth to Water: 21.73 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 8.27 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 19.7

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-181

Sampler's Name: Bryce Tsao

Purging Equipment: Dedicated micro purge pump

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 115 Feet

Depth to Water: 28.50 Feet

Pump Intake Depth: 112 Feet

Pump Setting: 65 PSI

Screened Interval: 104.7-114.7 Feet

Pump / Tubing Type: QED/Poly

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Environgen Holding Pond

Actual Sample Depth: 112 Feet

Sample Collection Date: 5-26-15

Sample Collection Time: 11:57

Sampling Equipment: Dedicated pump.

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
11:35	100	300	29.21	.817	27.42	.85	6.75	4.47	195	
11:38	100	600	29.41	.809	27.04	8.25	7.59	6.24	159	
11:41	100	900	29.44	.798	27.28	18.14	8.14	5.95	135	
11:44	100	1200	29.44	.799	27.64	18.05	8.30	6.21	127	
11:47	100	1500	29.46	.798	27.74	17.83	8.36	6.21	125	
11:50	100	1800	29.47	.798	27.69	16.73	8.37	6.19	125	
11:53	100	2100	29.50	.799	27.58	16.51	8.39	6.21	127	

Total Water Volume Purged: 2,100 ml

Comments:

9101 West Sahara Avenue, Suite 105-B32 -- Las Vegas, Nevada 89117-5772
Telephone: 702/254-6731 -- FAX 702/254-6446
Email Address: StewEnvir@aol.com

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-182

Sample Collection Date: 5-26-15

Sampler's Name: Brad Tsao

Sample Collection Time: 11:30

Purging Equipment: Dedicated micro purge pump

Sampling Equipment: Dedicated pump.

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 90 Feet

Depth to Water: 33.83 Feet

Pump Intake Depth: 87.0 Feet

Pump Setting: 60 PSI

Screened Interval: 79.7 - 89.7 Feet

Pump / Tubing Type: QED / poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen Holding Pond

Actual Sample Depth: 87 Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
11:00	100	300	34.21	16.8	26.27	4.59	7.30	6.93	88	
11:03	100	600	33.99	16.9	26.47	9.03	8.01	5.86	145	
11:06	100	900	34.03	17.0	26.72	12.66	7.76	5.68	157	
11:09	100	1200	34.05	17.0	26.93	12.13	6.62	5.77	163	
11:12	100	1500	34.06	17.0	26.94	8.10	7.01	5.83	166	
11:15	100	1800	34.07	17.0	26.96	5.91	7.48	5.61	168	
11:18	100	2100	34.07	17.0	27.03	6.04	7.46	5.53	169	
11:21	100	2400	34.08	17.0	26.99	6.17	7.45	5.51	169	
11:24	100	2700	34.08	17.0	27.04	6.28	7.45	5.48	169	

Total Water Volume Purged: 2,700 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: M-186

Sample Collection Date: 5-20-15

Sampler's Name: Bryce Tsao

Sample Collection Time: 10:00

Purging Equipment: Dedicated micro purge pump

Sampling Equipment: Dedicated purge pump.

Casing Type: PVC

Casing Diameter: 2" Inches

Depth to Well Bottom: 115 Feet

Depth to Water: 46.35 Feet

Pump Intake Depth: 112 Feet

Pump Setting: 60 PSI

Screened Interval: 104.7-114.7 Feet

Pump / Tubing Type: QED/poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen holding pond

Actual Sample Depth: 112 Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
9:34	100	300	46.94	8.35	26.36	1.12	7.13	4.18	133	
9:37	100	600	47.06	8.36	26.11	3.53	7.01	2.71	147	
9:40	100	900	47.18	7.64	26.15	17.03	7.41	3.57	134	
9:43	100	1200	47.25	7.44	26.13	23.06	7.55	3.84	128	
9:46	100	1500	47.31	7.39	26.25	19.3	7.67	3.94	125	
9:49	100	1800	47.35	7.38	26.21	20.6	7.71	3.98	123	
9:52	100	2100	47.42	7.40	26.21	19.01	7.73	4.01	123	
9:55	100	2400	47.45	7.41	26.23	19.37	7.74	4.01	123	

Total Water Volume Purged: 2,400 ml

Comments:

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/

Water Sampling Field Log

Well No.: MC-3

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, partially cloudy

Well Information:

Total Well Depth: 43.0 feet Time: 1045

Depth to Water: 34.51 feet

Height of Water Column (L): 8.49 feet

Well Diameter (circle one)			Well Volume (WV)
2-in.	4-in.	6-in	
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 1.35 gal. * x 3 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1047	-----	-----	-----	-----	
1049	2 gal	7.21	24.04 mS/cm	28.1 °C	Clear
1050	3 gal	7.17	24.0 mS/cm	28.1 °C	Clear
1051	4 gal	7.16	24.08 mS/cm	28.1 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1053 Time Finished: 1053

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - ? Diluted 50/50 with sample / DI for EC reading

Water Sampling Field Log

Well No.: MC-6

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, breezy, clouds

Well Information:

Total Well Depth: 42.0 feet Time: 1153

Depth to Water: 29.39 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 12.61 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.01 gal. * x 3 Well Volume (WV) 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1154	-----	-----	-----	-----	
1159	2 gal	7.44	19.66 mS/cm	27.1 °C	clear
1201	4 gal	7.33	19.16 mS/cm	26.9 °C	clear
1203	6 gal	7.21	19.10 mS/cm	26.5 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1205 Time Finished: 1205

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen-? EB-11 collected here before moving to next well
3 btls 1210 CR, CRVI, TDS, pH, CLO4

Water Sampling Field Log

Well No.: MC-7

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, partially cloudy

Well Information:

Total Well Depth: 39.0 feet Time: 1025

Depth to Water: 28.25 feet

Height of Water Column (L): 10.75 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 1.72 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1028	-----	-----	-----	-----	
1031	2 gal	7.01	10.61 mS/cm	27.1 °C	clear
1033	4 gal	7.05	10.56 mS/cm	26.8 °C	clear
1035	5 gal	6.98	10.42 mS/cm	26.3 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1037 Time Finished: 1037

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - ?
closing QC - 7.0

Water Sampling Field Log

Well No.: MC-29

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Mot, breezy, clouds

Well Information:

Total Well Depth: 50.0 feet Time: 1110

Depth to Water: 31.53 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 12.47 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.99 gal. * x 3 Well Volume (WV) 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1113	-----	-----	-----	-----	
1116	2 gal	7.34	26.72 mS/cm	28.7 °C	Clear
1118	4 gal	7.17	27.78 mS/cm	27.6 °C	Clear
1120	6 gal	7.09	26.84 mS/cm	27.3 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1122 Time Finished: 1122

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - 37.5'

Diluted 50/50 sample + DI for EC

Water Sampling Field Log

Well No.: MC-45

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, breezy, clouds

Well Information:

Total Well Depth: 34.0 feet Time: 1215

Depth to Water: 29.37 feet

Height of Water Column (L): 4.63 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft / 4-in. 0.65 gal/ft / 6-in 1.47 gal/ft = .74 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1218	-----	-----	-----	-----	
1220	1 gal	7.47	19.58 mS/cm	27.2 °C	clear
1221	2 gal	7.38	19.16 mS/cm	26.5 °C	clear
1222	3 gal	7.24	19.35 mS/cm	26.4 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1224 Time Finished: 1224

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - 30'

FB-2 collected here
3 btls CR, CRVI, TDS, CLO4, pH
1230

Water Sampling Field Log

Well No.: MC-50

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, breeze, Clouds

Well Information:

Total Well Depth: 49.0 feet Time: 1246

Depth to Water: 30.61 feet

Height of Water Column (L): 18.39 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft

= 2.94 gal. * x 3 Well Volume (WV) 9 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1249	-----	-----	-----	-----	
1251	3 gal	7.79	18.55 mS/cm	26.1 °C	clear
1253	6 gal	7.34	18.47 mS/cm	26.4 °C	clear
1257	9 gal	7.28	18.49 mS/cm	26.5 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1258 Time Finished: 1258

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of casing - 24'

Water Sampling Field Log

Well No.: MC-51

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny, Clear

Well Information:

Total Well Depth: 44.0 feet Time: 0743

Depth to Water: 31.94 feet

Height of Water Column (L): 12.06 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 1.92 gal. * x 3 Well Volume (WV) 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0746	-----	-----	-----	-----	
0749	2 gal	7.07	1814 mS/cm	25.9 °C	Clear
0751	4 gal	7.08	1820 mS/cm	25.8 °C	Clear
0753	6 gal	7.09	18.77 mS/cm	26.2 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0755 Time Finished: 0755

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen- 24'

Water Sampling Field Log

Well No.: MC-53

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 38.00 feet Time: 0812

Depth to Water: 32.43 feet

Height of Water Column (L): 5.57 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = .89 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0816	-----	-----	------	------	
0818	1 gal	7.36	16.90 mS/cm	26.9°C	slightly cloudy
0819	2 gal	7.13	16.73 mS/cm	25.8°C	Very slightly cloudy
0820	3 gal	7.09	16.64 mS/cm	25.8°C	same

Sample Appearance: Very slightly cloudy

Sample Collection - Time Start: 0821 Time Finished: 0821

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen- 20'

Water Sampling Field Log

Well No.: MC-65

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, partially cloudy

Well Information:

Total Well Depth: 41.0 feet Time: 1005

Depth to Water: 35.12 feet

Height of Water Column (L): 5.88 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) | 4-in. * 0.65 gal/ft | 6-in * 1.47 gal/ft

= .94 gal. * x 3 Well Volume (WV): 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1007	-----	-----	-----	-----	
1009	1 gal	7.19	15.01 mS/cm	27.1 °C	Clear
1010	2 gal	7.10	14.79 mS/cm	26.4 °C	Clear
1011	3 gal	7.02	14.72 mS/cm	26.3 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1013 Time Finished: 1013

Analyses:	~~CLO4~~	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 20'

Water Sampling Field Log

Well No.: MW-69

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, breezy clouds

Well Information:

Total Well Depth: 44.0 feet Time: 1135

Depth to Water: 32.89 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 11.11 feet * 0.16 gal/ft / 0.65 gal/ft * 1.47 gal/ft = 1.77 gal. * x 3 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1137	-----	-----	-----	-----	
1139	2 gal	7.14	19.30 mS/cm	27.3°C	clear
1141	4 gal	7.17	19.31 mS/cm	26.5°C	clear
1142	5 gal	7.21	19.20 mS/cm	26.2°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1143 Time Finished: 1143

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - 29'

Dup EC 19.13 / EC 26.6 / temp

Water Sampling Field Log

Well No.: MC-93

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Sunny, warm, clear

Well Information:

Total Well Depth: 42.0 feet Time: 0720

Depth to Water: 34.18 feet

Height of Water Column (L): 7.82 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft, 4-in. * 0.65 gal/ft, 6-in * 1.47 gal/ft = 1.25 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0725	-----	-----	-----	-----	
0728	2 gal	6.80	9.92 mS/cm	25.5 °C	clear
0729	3 gal	6.89	9.77 mS/cm	25.3 °C	clear
0730	4 gal	6.94	9.76 mS/cm	25.2 °C	clear

Sample Appearance: Clear

Sample Collection - Time Start: 0731 Time Finished: 0731

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - 32'

Water Sampling Field Log

Well No.: MC-9M

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 41.0 feet Time: 0836

Depth to Water: 37.14 feet

Height of Water Column (L): 3.86 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = .61 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0838	-----	-----	-----	-----	
0840	1 gal	7.11	17.82 mS/cm	26.9 °C	clear
0841	2 gal	7.06	17.10 mS/cm	26.2 °C	clear
0842	3 gal	6.93	16.96 mS/cm	25.8 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0843 Time Finished: 0843

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - 31'

Water Sampling Field Log

Well No.: MW-116

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-22-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm cloudy

Well Information:

Total Well Depth: 40.0 feet Time: 1025

Depth to Water: 36.68 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 3.32 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .53 gal. * x 3 Well Volume (WV) 1.5

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1030	-----	-----	-----	-----	
1031	.75 gal	6.91	13.58 mS/cm	25.8 °C	clear
1031	1.0 gal	6.97	13.69 mS/cm	25.7 °C	clear
1032	1.5 gal	7.0	13.65 mS/cm	25.5 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1033 Time Finished: 1033

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen: 24.7' EB-7 collected here before moving to next well

1040 3 btls pH, TDS, CR, CRVI, CLO4

Water Sampling Field Log

Well No.: MW-K4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 50.0 feet Time: 1216

Depth to Water: 27.73 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L)		Well Diameter		Well Volume (WV)	Purge Factor	Purge Volume
22.27 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 3.56 gal.	* 3	= 11 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1218	-----	-----	-----	-----	
1221	4 gal	7.24	10.95 mS/cm	27.0 °C	Clear
1224	8 gal	7.25	10.85 mS/cm	26.7 °C	Clear
1227	11 gal	7.22	10.81 mS/cm	26.6 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1230 Time Finished: 1230

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Top of screen 9.5'

Water Sampling Field Log

Well No.: MW-K5

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 44.0 feet Time: 1050

Depth to Water: 30.12 feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): 13.88 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 2.22 gal.	* 3	= 7 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1053	-----	-----	-----	-----	
1056	3 gal	7.22	9.39 mS/cm	26.0°C	Clear
1058	5 gal	7.20	9.17 mS/cm	25.6°C	Clear
1100	7 gal	7.15	9.33 mS/cm	26.8°C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1102 Time Finished: 1102

Analyses:	CLO4	TDS	TDS/pH/NO3	CR	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1BTL	1 bttl

TOTAL BOTTLES: 4

Comments: Top of screen 28.5'

Water Sampling Field Log

Well No.: PC-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-20-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, cloudy, breezy

Well Information:

Total Well Depth: 30.0 feet Time: 1258

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				DRY
	gal				
					TWD.

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 14.7'

Water Sampling Field Log

Well No.: PC-2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-20-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Cloudy, breezy

Well Information:

Total Well Depth: 30.0 feet Time: 1158

Depth to Water: 28.12 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 1.88 feet 0.16 gal/ft 0.65 gal/ft * 1.47 gal/ft = 30 gal. * x 3 Well Volume (WV)

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1200	-----	-----	-----	-----	
1201	.5 gal	7.61	5.89 mS/cm	25.1°c	slightly cloudy
1202	1.0 gal	7.60	5.75 mS/cm	24.9°c	clear
1203	1.5 gal	7.64	5.87 mS/cm	22.2	clear

Sample Appearance: Clear

Sample Collection - Time Start: 1204 Time Finished: 1204

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 14'

low water volumn well purges dry

closing QC 7.01

Water Sampling Field Log

Well No.: PC-4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-20-15

Sampling Method: Electric Pump ● Dedicated Bailer O ~~Non Dedicated Bailer~~ mb ~~disposable~~ ● Ready Flo 2" O

Weather Conditions: cloudy, windy, warm

Well Information:

Total Well Depth: 43.0 feet Time: 1230

Depth to Water: 34.18 feet

Height of Water Column (L): 8.82 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 1.41 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1232	-----	-----	-----	-----	
1234	2 gal	7.53	8.56 mS/cm	25.2°C	muddy
1235	3 gal	7.54	8.03 mS/cm	23.6°C	cloudy
1236	4 gal	7.49	7.92 mS/cm	23.7°C	slightly cloudy

Sample Appearance: slightly cloudy

Sample Collection - Time Start: 1245 Time Finished: 1245

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 17.7'
EB-10 collected here before moving to next well 1250 TDS, CR, CRVI, pH, CLO4 3 btl

Water Sampling Field Log

Well No.: RC-18

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, partially cloudy

Well Information:

Total Well Depth: 52.11 feet Time: 0753

Depth to Water: 28.28 feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): 23.83 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 3.81 gal.	* 3	= 11 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0755	-----	-----	-----	-----	
0758	4 gal	7.21	12.48 mS/cm	25.6 °C	clear
0801	8 gal	7.19	12.51 mS/cm	26.0 °C	clear
0803	11 gal	7.12	12.56 mS/cm	26.2 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 0805 Time Finished: 0805

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: screen 11.5 - 51.5'

Water Sampling Field Log

Well No.: PC-21A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 34.40 feet Time: 1009

Depth to Water: 32.79 feet

Height of Water Column (L): 1.61 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = .25 gal. * x 3 Well Volume (WV) 2 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1011	-----	-----	-----	-----	
1012	.50 gal	7.36	12.61 mS/cm	27.4 °C	muddy
1012	1.00 gal	7.36	12.45 mS/cm	27.0 °C	cloudy
1013	1.50 gal	7.29	12.35 mS/cm	27.1 °C	cloudy

Sample Appearance: cloudy

Sample Collection - Time Start: 1014 Time Finished: 1014

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 14'

Water Sampling Field Log

Well No.: PC-24

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 30.20 feet Time: 0849

Depth to Water: 20.91 feet

Height of Water Column (L): 9.29 feet * 0.16 gal/ft (2-in.) / 0.65 gal/ft (4-in.) / * 1.47 gal/ft (6-in) = 1.48 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0853	-----	-----	-----	-----	
0855	2 gal	7.58	10.46 mS/cm	23.2 °C	clear
0857	4 gal	7.57	10.41 mS/cm	23.4 °C	clear
0859	5 gal	7.42	10.22 mS/cm	23.1 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0900 Time Finished: 0900

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen. 15'

EB-1 collected here before moving to next well 0905

CR, CRVI, TDS, CLO4 pH 3 btls

Water Sampling Field Log

Well No.: PC-28

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: clear, sunny, hot

Well Information:

Total Well Depth: 20.0 feet Time: 1133

Depth to Water: 12.44 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 7.56 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.20 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1134	-----	-----	-----	-----	
1136	2 gal	7.54	343 mS/cm	24.8 °C	cloudy
1137	3 gal	7.48	342 mS/cm	24.4 °C	slightly cloudy
1138	4 gal	7.49	341 mS/cm	24.1 °C	slightly cloudy

Sample Appearance: slightly cloudy

Sample Collection - Time Start: 1140 Time Finished: 1140

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 10'
closing QC 7.0

Water Sampling Field Log

Well No.: PC-31

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, clear, sunny

Well Information:

Total Well Depth: 50.0 feet Time: 1101

Depth to Water: 11.53 feet

Height of Water Column (L): 38.47 feet * Well Diameter (circle one) 2-in. 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 6.15 gal. * x 3 Well Volume (WV) 18 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1103	-----	-----	-----	-----	
1108	6 gal	7.24	5.69 mS/cm	28.6 °C	clear
1113	12 gal	7.22	5.66 mS/cm	27.6 °C	clear
1119	18 gal	7.12	5.63 mS/cm	28.7 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1120 Time Finished: 1120

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 14.5'

pump ☐

5.60 EC 28.8 Temp

Closing QC 7.0

Water Sampling Field Log

Well No.: PC-37

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm partially cloudy

Well Information:

Total Well Depth: 43.08 feet Time: 0930

Depth to Water: 30.82 feet

Well Diameter (circle one) Well Volume (WV)

Height of Water Column (L): 12.26 feet (2-in. 0.16 gal/ft) * 0.65 gal/ft * 1.47 gal/ft = 1.96 gal. * x 3 6 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0933	-----	-----	-----	-----	
0936	2 gal	7.34	8.6 mS/cm	27.4 °C	Clear
0938	4 gal	7.33	8.33 mS/cm	27.0 °C	Clear
0940	6 gal	7.30	8.33 mS/cm	26.7 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0942 Time Finished: 0942

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 16.8

Water Sampling Field Log

Well No.: PC-40

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 55.20 feet Time: 1139

Depth to Water: 22.42 feet

Height of Water Column (L): 32.78 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 5.21 gal. * x 3 Well Volume (WV) 16 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1144	-----	-----	-----	-----	
1148	6 gal	7.08	19.94 mS/cm	28.2 °C	clear
1152	11 gal	7.08	21.88 mS/cm	27.2 °C	Clear
1156	16 gal	7.11	~~19.93~~ mS/cm	27.2 °C	Clear
			21.93 MB		

Sample Appearance: Clear

Sample Collection - Time Start: 1158 Time Finished: 1158

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 15'

pH + temp readings taken before dilution

50/50 dilution to read 2+3rd EC readings

DI - Sample

Water Sampling Field Log

Well No.: PC-50

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, breezy

Well Information:

Total Well Depth: 42.0 feet Time: 0622

Depth to Water: 12.55 feet

Height of Water Column (L): 29.45 feet * Well Diameter (circle one) 2-in. 0.16 gal/ft 4-in. 0.65 gal/ft 6-in 1.47 gal/ft = 4.71 gal. * x 3 Well Volume (WV) 14 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0624	-----	-----	-----	-----	
0628	5 gal	7.23	14.50 mS/cm	22.7 °C	clear
0632	10 gal	7.15	14.29 mS/cm	23.3 °C	clear
0636	14 gal	7.11	14.46 mS/cm	23.5 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0638 Time Finished: 0638

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 11.8'

Water Sampling Field Log

Well No.: PC-53

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 32.86 feet Time: 1034

Depth to Water: 27.42 feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): 5.44 feet	0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= .87 gal.	* 3	= 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1035	-----	-----	-----	-----	
1037	1 gal	7.37	6.02 mS/cm	26.1 °C	clear
1038	2 gal	7.34	5.96 mS/cm	25.9 °C	clear
1039	3 gal	7.34	5.88 mS/cm	25.5 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1041 Time Finished: 1041

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: screen 13 - 32.5'

Water Sampling Field Log

Well No.: PC-54

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 5-26-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 34.60 feet Time: 0919

Depth to Water: 24.74 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 9.86 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.57 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0922	----	----	----	----	
0924	2 gal	7.34	5.86 mS/cm	27.7 °C	clear
0926	4 gal	7.32	553 mS/cm	27.4 °C	clear
0927	5 gal	7.38	556 mS/cm	26.9 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0929 Time Finished: 0929

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 9.5

Water Sampling Field Log

Well No.: PC-55

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-16

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool

Well Information:

Total Well Depth: 54.9 feet Time: 0625

Depth to Water: 27.44 feet

Height of Water Column (L): 27.46 feet * 0.16 gal/ft * 0.65 gal/ft (1.47 gal/ft) = 40.36 gal. * x 3 121 gal

Well Diameter (circle one): 2-in. 4-in. 6-in

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0630	-----	-----	-----	-----	
0655	40 gal	7.52	8.74 mS/cm	25.3 °C	Clear
0719	80 gal	7.30	8.85 mS/cm	25.4 °C	Clear
0744	121 gal	7.32	8.87 mS/cm	25.8 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0745 Time Finished: 0745

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 15.3'

Water Sampling Field Log

Well No.: PC-56

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-14-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: windy, warm, cloudy

Well Information:

Total Well Depth: 63.58 feet Time: 1144

Depth to Water: 21.21 feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): 43.27 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 6.77 gal.	* 3	= 20 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1148	-----	-----	-----	-----	
1155	7 gal	7.52	6.46 mS/cm	25.2 °C	Clear
1202	14 gal	7.40	6.54 mS/cm	24.5 °C	clear
1208	20 gal	7.48	6.35 mS/cm	24.2 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1210 Time Finished: 1210

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: screen - 4.8 - 54.8

EB-8 collected here before moving to next well

1215 cr, CLO4, CRVI, pH, TDS 3 bttls

Water Sampling Field Log

Well No.: PC-58

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-14-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: windy, warm, cloudy

Well Information:

Total Well Depth: 42.78 feet Time: 1122

Depth to Water: 21.95 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 20.83 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 3.33 gal. (Well Volume (WV)) * 3 (Purge Factor) = 10 gal (Purge Volume)

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1125	-----	-----	-----	-----	
1128	4 gal	7.51	4.98 mS/cm	23.1 °C	clear
1131	7 gal	7.50	4.75 mS/cm	22.8 °C	clear
1134	10 gal	7.41	4.75 mS/cm	22.5 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1135 Time Finished: 1135

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Screen 7.8 - 32.8

Water Sampling Field Log

Well No.: PC-59

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-14-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Windy, warm, cloudy

Well Information:

Total Well Depth: 48.13 feet Time: 1245

Depth to Water: 19.71 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 28.42 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 4.54 gal. (Well Volume (WV)) * 3 (Purge Factor) = 14 gal (Purge Volume)

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1246	-----	-----	-----	-----	
1251	5 gal	7.75	3.60 mS/cm	23.21 °C	Clear
1256	10 gal	7.52	3.54 mS/cm	23.0 °C	Clear
1300	14 gal	7.49	3.53 mS/cm	22.9 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1301 Time Finished: 1301

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: screen 4.8 - 34.8'

Water Sampling Field Log

Well No.: PC-60

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-14-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, windy, cloudy

Well Information:

Total Well Depth: 48.09 feet Time: 1220

Depth to Water: 20.41 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 27.68 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 4.42 gal. (Well Volume (WV)) * 3 (Purge Factor) = 13 gal (Purge Volume)

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1221	-----	-----	-----	-----	
1226	5 gal	7.63	2.98 mS/cm	23.7 °C	clear
1230	9 gal	7.64	3.04 mS/cm	22.5 °C	clear
1234	13 gal	7.65	3.01 mS/cm	22.6 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1235 Time Finished: 1235

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Screen 4.5 - 39.5'

Closing QC 7.01 Dup EC 22.6°C temp 3.03 EC

Water Sampling Field Log

Well No.: PC-62

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 45.91 feet Time: 0831

Depth to Water: 18.87 feet

Height of Water Column (L): 27.04 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft (circled) * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = Well Volume (WV) 4.32 gal. * Purge Factor 3 = Purge Volume 13 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0836	-----	-----	-----	-----	
0840	5 gal	7.56	2.62 mS/cm	21.5 °C	clear
0843	9 gal	7.43	2.64 mS/cm	21.4 °C	clear
0847	13 gal	7.43	2.59 mS/cm	21.4 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 0849 Time Finished: 0849

Analyses:	ClO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Screen 7.6 - 37.6'

Water Sampling Field Log

Well No.: PC-64

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot sunny

Well Information:

Total Well Depth: 19.50 feet Time: 0959

Depth to Water: 11.24 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 8.26 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.32 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1000	-----	-----	-----	-----	
1002	2 gal	7.66	6.01 mS/cm	24.6 °C	muddy
1003	3 gal	7.70	5.88 mS/cm	24.6 °C	clear
1004	4 gal	7.68	5.89 mS/cm	24.5 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1006 Time Finished: 1006

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 4'

Water Sampling Field Log

Well No.: PC-65

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 19.10 feet Time: 1016

Depth to Water: 11.32 feet

Height of Water Column (L): 7.78 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 1.24 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1018	-----	-----	-----	-----	
1020	2 gal	7.62	5.41 mS/cm	24.8°C	cloudy
1021	3 gal	7.59	5.13 mS/cm	25.0°C	slightly cloudy
1022	4 gal	7.51	5.04 mS/cm	24.5°C	very slightly cloudy

Sample Appearance:

Sample Collection - Time Start: 1023 Time Finished: 1023

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 4.1'

closing QC - 7.02

Water Sampling Field Log

Well No.: PC-66

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 6-2-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 27.30 feet Time: 0752

Depth to Water: 14.42 feet

Height of Water Column (L): 12.88 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 2.06 gal. * x 3 Well Volume (WV) 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0753	-----	-----	-----	-----	
0755	2 gal	7.60	6.79 mS/cm	24.7°C	clear
0757	4 gal	7.56	6.78 mS/cm	24.9°C	clear
0759	6 gal	7.52	6.75 mS/cm	25.0°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0800 Time Finished: 0800

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen 6.9

Water Sampling Field Log

Well No.: PC-67

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-28-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 36.0 feet Time: 1035

Depth to Water: 14.86 feet

Height of Water Column (L): 21.14 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 3.38 gal. * x 3 Well Volume (WV) 10 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1038	-----	-----	-----	-----	
1041	3 gal	7.25	12.87 mS/cm	26.8 °C	Very slightly cloudy
1044	7 gal	7.19	12.93 mS/cm	26.3 °C	same
1047	10 gal	7.17	12.82 mS/cm	26.2 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1048 Time Finished: 1048

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 11'

EB-13MD collected here before moving to next well 3 btls 1055

CR, CRVI, TDS, pH, CLO4

Water Sampling Field Log

Well No.: PC-68

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-14

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 64.72 feet Time: 0858

Depth to Water: 18.83 feet

	Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): 45.89 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 7.34 gal.	* 3	= 22 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0900	-----	-----	-----	-----	
0906	8 gal	7.31	2.70 mS/cm	23.7 °C	Clear
0912	15 gal	7.41	2.72 mS/cm	23.0 °C	Clear
0917	22 gal	7.39	2.76 mS/cm	22.9 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 0918 Time Finished: 0918

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: screen 9.9 - 54.9'

Water Sampling Field Log

Well No.: PC-71

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-26-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 33.23 feet Time: 1050

Depth to Water: 28.03 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 5.20 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .83 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1052	-----	-----	-----	-----	
1054	1 gal	7.39	9.20 mS/cm	28.1 °C	cloudy
1055	2 gal	7.37	9.25 mS/cm	28.5 °C	slightly cloudy
1056	3 gal	7.33	9.27 mS/cm	27.6 °C	Very slightly cloudy

Sample Appearance: Very slightly cloudy

Sample Collection - Time Start: 1057 Time Finished: 1057

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 13.4

Water Sampling Field Log

Well No.: PC-72

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-26-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breezy

Well Information:

Total Well Depth: 39.54 feet Time: 1108

Depth to Water: 30.89 feet

Height of Water Column (L): 8.65 feet * 0.16 gal/ft (2-in.) * 0.65 gal/ft (4-in.) * 1.47 gal/ft (6-in) = 1.38 gal. * x 3 = 4 gal

Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1109	-----	-----	-----	-----	
1111	2 gal	7.08	7.93 mS/cm	26.5°C	Clear
1112	4 gal	7.29	8.01 mS/cm	26.3°C	clear
1113	5 gal	7.33	8.43 mS/cm	25.9°C	clear

Sample Appearance: Clear

Sample Collection - Time Start: 1115 Time Finished: 1115

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 15

Water Sampling Field Log

Well No.: PC-73

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-26-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 49.44 feet Time: 1122

Depth to Water: 31.94 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 17.50 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.80 gal. * x 3 Well Volume (WV) 8 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1125	-----	-----	-----	-----	
1128	3 gal	7.34	8.70 mS/cm	27.2 °C	clear
1130	6 gal	7.35	8.57 mS/cm	26.2 °C	clear
1132	8 gal	7.28	8.62 mS/cm	26.4 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1133 Time Finished: 1133

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 20

EB-5 collected here 1137
before moving to next well
TDS, pH, ClO4, CR, CRVI 3 bottles

Water Sampling Field Log

Well No.: PC-74

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer disposable Ready Flo 2" O

Weather Conditions: warm, sunny, breezy

Well Information:

Total Well Depth: 50.00 feet Time: 1022

Depth to Water: 12.36 feet

Height of Water Column (L): 37.64 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
---	---	---	---	---	
1024	gal	7.28	5.47 mS/cm	23.9°C	clear
	gal				
	gal				well not purged
					due to location

Sample Appearance: _____

Sample Collection - Time Start: 1024 Time Finished: 1024

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen. 39.5'

Water Sampling Field Log

Well No.: PC-76

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 20.50 feet Time: 1029

Depth to Water: 11.62 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 8.88 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				
	gal				DTW ONLY
					NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen. 15'

Water Sampling Field Log

Well No.: PC-MM

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breezy

Well Information:

Total Well Depth: 40.0 feet Time: 0946

Depth to Water: 7.03 feet

Well Diameter (circle one) 2-in. 4-in. 6-in Well Volume (WV)

Height of Water Column (L): 32.97 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 5.27 gal. * x 3 16 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0951	-----	-----	-----	-----	
0957	6 gal	7.52	5.55 mS/cm	25.5 °C	clear
1003	11 gal	7.41	5.52 mS/cm	26.1 °C	clear
1009	16 gal	7.43	5.27 mS/cm	25.6 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1011 Time Finished: 1011

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - 29.5'

Water Sampling Field Log

Well No.: PC-78

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breezy

Well Information:

Total Well Depth: 22.0 feet Time: 0958

Depth to Water: 6.48 feet

Height of Water Column (L): 15.52 feet

Well Diameter (circle one) 2-in.	4-in.	6-in	Well Volume (WV)
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal. * x 3 _____

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen · 11.5

Water Sampling Field Log

Well No.: PC-79

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 54.05 feet Time: 0819

Depth to Water: 17.57 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 36.48 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 5.83 gal. * x 3 Well Volume (WV) 18 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0824	-----	-----	-----	-----	
0830	6 gal	7.78	3.14 mS/cm	22.2 °C	clear
0835	12 gal	7.48	3.07 mS/cm	22.0 °C	clear
0841	18 gal	7.43	3.04 mS/cm	21.7 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0843 Time Finished: 0843

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen- 34.5'

Water Sampling Field Log

Well No.: PC-80

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 39.20 feet Time: 0820

Depth to Water: 17.84 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 21.36 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 19.5'

Water Sampling Field Log

Well No.: PC-81

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 24.38 feet Time: 0821

Depth to Water: 17.91 feet

Height of Water Column (L): 6.47 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) | 4-in. * 0.65 gal/ft | 6-in * 1.47 gal/ft = _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 9.5'

Water Sampling Field Log

Well No.: PC-B2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 67.45 feet Time: 0740

Depth to Water: 16.85 feet

Height of Water Column (L): 50.60 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = Well Volume (WV) 8.09 gal. * x 3 24 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0745	-----	-----	-----	-----	
0853	8 gal	7.49	3.19 mS/cm	22.5 °C	very slightly cloudy
0801	16 gal	7.44	2.97 mS/cm	22.1 °C	clear
0809	24 gal	7.45	2.98 mS/cm	23.3 °C	clear

Sample Appearance: Clear

Sample Collection - Time Start: 0811 Time Finished: 0811

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 47'

Water Sampling Field Log

Well No.: PC-83

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 41.06 feet Time: 0741

Depth to Water: 16.14 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 24.92 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 20.5

Water Sampling Field Log

Well No.: PC-86

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 28.0 feet Time: 0930

Depth to Water: 12.11 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 15.89 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.54 gal. * x 3 Well Volume (WV) 8 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0933	-----	-----	-----	-----	
0936	3 gal	7.66	2.93 mS/cm	22.1°C	clear
0938	6 gal	7.53	2.79 mS/cm	21.9°C	clear
0940	8 gal	7.54	2.78 mS/cm	22.2°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0942 Time Finished: 0942

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Screen - 17.5 - 27.5'

Water Sampling Field Log

Well No.: PC-87

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, slight breeze

Well Information:

Total Well Depth: 20.52 feet Time: 0853

Depth to Water: 12.58 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 7.94 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 2.5'

Water Sampling Field Log

Well No.: PC-88

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny Slight Breeze

Well Information:

Total Well Depth: 50.50 feet Time: 10:23

Depth to Water: 5.66 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 44.84 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 Well Volume (WV) _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				DTW ONLY
	gal				NO SAMPLE

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments: Top of screen - 40'

Water Sampling Field Log

Well No.: PC-90

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-14-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: sunny, cloudy, warm

Well Information:

Total Well Depth: 33.0 feet Time: 1002

Depth to Water: 5.67 feet

Height of Water Column (L): 27.33 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 4.37 gal. * x 3 Well Volume (WV) 13 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1004	-----	-----	-----	-----	
1007	5 gal	7.65	4.07 mS/cm	22.1 °C	Clear
1010	9 gal	7.58	3.94 mS/cm	21.9 °C	Clear
1013	13 gal	7.56	3.96 mS/cm	21.7 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1015 Time Finished: 1015

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: screen: 4.5 - 14.5'

Water Sampling Field Log

Well No.: PC-91

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-14-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Windy, cloudy, warm

Well Information:

Total Well Depth: 37.0 feet Time: 1022

Depth to Water: 11.08 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 25.92 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 4.14 gal. * x 3 Well Volume (WV) 12 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1025	-----	-----	-----	-----	
1028	4 gal	7.65	4.10 mS/cm	22.6 °C	clear
1031	8 gal	7.56	4.02 mS/cm	22.4 °C	clear
1034	12 gal	7.60	3.93 mS/cm	22.3 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1035 Time Finished: 1035

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Screen - 26.5 - 36.5

Water Sampling Field Log

Well No.: PC-92

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-14-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: windy, warm, cloudy

Well Information:

Total Well Depth: 22.0 feet Time: 1041

Depth to Water: 10.81 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 11.19 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.79 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1043	-----	-----	-----	-----	
1045	2 gal	7.57	3.80 mS/cm	22.5°C	clear
1047	4 gal	7.56	3.52 mS/cm	22.3°C	clear
1048	5 gal	7.48	3.52 mS/cm	22.2°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1050 Time Finished: 1050

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen-11.5

Water Sampling Field Log

Well No.: PC-94

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-14-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Windy, warm, cloudy

Well Information:

Total Well Depth: 20.0 feet Time: 1101

Depth to Water: 12.08 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 7.92 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.26 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1104	-----	-----	-----	-----	
1106	2 gal	7.35	8.08 mS/cm	24.6 °C	Clear
1107	3 gal	7.26	8.27 mS/cm	23.5 °C	Clear
1108	4 gal	7.25	8.20 mS/cm	23.0 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1110 Time Finished: 1110

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 9.5'

No cont tod

Water Sampling Field Log

Well No.: PC-95

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: _____

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: _____ feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				P + A
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments:

Water Sampling Field Log

Well No.: PC-96

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 39.50 feet Time: 1044

Depth to Water: 5.97 feet

Height of Water Column (L): 33.53 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = 5.36 gal. * x 3 Well Volume (WV) 16 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1049	-----	-----	-----	-----	
1054	6 gal	7.49	3.34 mS/cm	23.7 °C	clear
1059	11 gal	7.35	3.63 mS/cm	22.8 °C	clear
1104	16 gal	7.33	3.59 mS/cm	22.6 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1106 Time Finished: 1106

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - 29'

closing QC - 7.01

Water Sampling Field Log

Well No.: PC-97

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-14-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: windy, warm, cloudy

Well Information:

Total Well Depth: 33.5 feet Time: 0940

Depth to Water: 4.42 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 29.08 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 4.65 gal. * x 3 Well Volume (WV) 14 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0943	-----	-----	-----	-----	
0946	5 gal	7.41	3.32 mS/cm	22.9°C	clear
0949	10 gal	7.42	3.35 mS/cm	22.2°C	clear
0952	14 gal	7.45	3.33 mS/cm	22.1°C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0953 Time Finished: 0953

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: screen - 23 → 33'

Water Sampling Field Log

Well No.: PC-98R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-20-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Cloudy, breezy, warm

Well Information:

Total Well Depth: 40.5 feet Time: 1005

Depth to Water: 22.89 feet

Well Diameter (circle one): 2-in. / 4-in. / 6-in

Height of Water Column (L)				Well Volume (WV)	Purge Factor	Purge Volume
17.61 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= 11.44 gal.	* 3	= 34 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1008	-----	-----	-----	-----	
1016	12 gal	7.46	8.50 mS/cm	26.0 °C	Clear
1025	24 gal	7.33	8.51 mS/cm	25.3 °C	Clear
1033	34 gal	7.37	8.17 mS/cm	25.5 °C	Clear
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1036 Time Finished: 1036

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: screen 20-35'

Water Sampling Field Log

Well No.: RC-99R2/R3

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Breezy, warm, overcast

Well Information:

5-28-15

Total Well Depth: 55.3 feet Time: 1013

Depth to Water: - 12.12 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	43.18 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1014		7.09	24.5	clear

Comments:

Sample Collection Time - 1015

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-101R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-20-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, warm

Well Information:

Total Well Depth: 50.58 feet Time: 0910

Depth to Water: 29.12 feet

Height of Water Column (L): 21.46 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = Well Volume (WV) 3.43 gal. * Purge Factor 3 = **Purge Volume** 10 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0914	-----	-----	-----	-----	
0919	5 gal	7.19	15.28 mS/cm	25.1 °C	clear
0923	7 gal	7.04	14.92 mS/cm	25.5 °C	clear
0925	10 gal	7.04	14.93 mS/cm	25.2 °C	clear
	gal		mS/cm	°C	
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 0927 Time Finished: 0927

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: screen 20-50'

Water Sampling Field Log

Well No.: PC-103

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-20-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, warm

Well Information:

Total Well Depth: 31.80 feet Time: 0943

Depth to Water: 22.95 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 8.84 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.41 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0945	-----	-----	-----	-----	
0947	2 gal	7.58	7.45 mS/cm	24.7 °C	clear
0948	3 gal	7.44	6.78 mS/cm	24.6 °C	clear
0949	4 gal	7.41	6.48 mS/cm	24.7 °C	clear
0950	5 gal	7.31	6.51 mS/cm	24.6 °C	clear

Sample Appearance: _____

Sample Collection - Time Start: 0951 Time Finished: 0951

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: screen - 9-29'

AM - PAC

Water Sampling Field Log

Well No.: PC-107

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, partially cloudy

Well Information:

Total Well Depth: 18.0 feet Time: 0854

Depth to Water: 9.95 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 8.05 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.28 gal. * x 3 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0903	-----	-----	-----	-----	
0905	2 gal	7.39	5.92 mS/cm	24.8 °C	cloudy
0906	3 gal	7.19	5.61 mS/cm	23.7 °C	muddy
0907	4 gal	7.11	5.61 mS/cm	23.9 °C	cloudy

Sample Appearance: cloudy

Sample Collection - Time Start: 0908 Time Finished: 0908

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - 7.7'

Water Sampling Field Log

Well No.: PC-108

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, cloudy

Well Information:

Total Well Depth: 48.12 feet Time: 0928

Depth to Water: 14.07 feet

Height of Water Column (L): 34.05 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = 5.44 gal. * x 3 16 gal

Well Volume (WV)

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0930	-----	-----	-----	-----	
0935	6 gal	7.63	3.44 mS/cm	21.6 °C	slightly cloudy
0940	11 gal	7.42	3.19 mS/cm	22.1 °C	clear
0944	16 gal	7.48	3.20 mS/cm	20.9 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0946 Time Finished: 0946

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - 9.7'

Water Sampling Field Log

Well No.: PC-110

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, cloudy

Well Information:

Total Well Depth: 37.0 feet Time: 0902

Depth to Water: 16.14 feet

Height of Water Column (L): 20.86 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = 3.33 gal. * x 3 Well Volume (WV) 10 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0905	-----	-----	-----	-----	
0907	4 gal	7.41	5.74 mS/cm	24.9 °C	clear
0909	7 gal	7.35	5.45 mS/cm	24.7 °C	clear
0912	10 gal	7.30	5.45 mS/cm	24.4 °C	clear

Sample Appearance: Clear

Sample Collection - Time Start: 0914 Time Finished: 0914

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: Top of screen - 6.7

Dup EC 5.47 EC 24.5 temp

Water Sampling Field Log

Well No.: PC-111

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown. Date: 5-28-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: _____ feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____ Well Volume (WV)

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	-----	-----	-----	-----	
	gal				
	gal				Destroyed
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: Ø

Comments:

Water Sampling Field Log

Well No.: PC-115R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ◉ Disposable Bailer O Electric pump O

Weather Conditions: warm, overcast, breezy

Well Information:

5-28-15

Total Well Depth: 55.5 feet Time: 1124

Depth to Water: - 11.38 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	44.12 feet	X	0.4893	1.9	4.41	=	_____

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1018		7.34	23.0°C	clear

Comments:

Sample Collection Time - 1019

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-116R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 1013

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Warm, overcast, breezy

Well Information:

5-28-15

Total Well Depth: 55.5 feet Time: 1118

Depth to Water: - 13.47 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	42.03 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1020		7.27	23.7	clear

Comments:

Sample Collection Time - 1021

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-117

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: warm, windy, overcast

Well Information:

5-28-15

Total Well Depth: 53.0 feet Time: 1115

Depth to Water: - 11.58 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	41.42 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1023		7.28	22.7	clear

Comments:

Sample Collection Time - 1024

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-118

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Windy, warm, overcast

Well Information:

Total Well Depth: 51.0 feet Time: 1127 5-28-15

Depth to Water: - 8.15 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	42.85 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1026		7.37	22.4	Clear

Comments:

Sample Collection Time - 1027

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-119

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ◉ Disposable Bailer O Electric pump O

Weather Conditions: Windy, warm, overcast

Well Information:

Total Well Depth: 47.0 feet Time: 1131

Depth to Water: - 6.29 feet 5-28-15

Water Column (L): 40.71 feet X

Well Diameter (circle one)	2-in.	4-in.	6-in.	Purge Volume
	0.4893	1.9	4.41	=

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1029		7.45	21.6	Clear

Comments:

Sample Collection Time - 1030

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-120

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ● Disposable Bailer O Electric pump O

Weather Conditions: Warm, windy, overcast

Well Information:

Total Well Depth: 47.0 feet Time: 1136 5-28-15

Depth to Water: - 4.53 feet

			Well Diameter (circle one)				**Purge Volume**
			2-in.	**4-in.**	**6-in.**		
Water Column (L):	42.47 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	**gals**	**pH**	**Temp**	**Observations of Sample**
1035		7.32	23.3	

Comments:

Sample Collection Time - 1036

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-121

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ◉ Disposable Bailer O Electric pump O

Weather Conditions: warm, windy, overcast

Well Information:

Total Well Depth: 38.50 feet Time: 1138 5-28-15

Depth to Water: - 4.51 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	33.99 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1038		7.25	22.8	Clear

Comments:

Sample Collection Time - 1039

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-122

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-19-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 37.9 feet Time: 1012

Depth to Water: 31.69 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L)		Well Diameter			Well Volume (WV)	Purge Factor	Purge Volume
6.21 feet	(0.16 gal/ft)	* 0.65 gal/ft	* 1.47 gal/ft	=	.99 gal. *	3 =	3 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1014	-----	-----	-----	-----	
1016	1 gal	7.39	8.87 mS/cm	25.4 °C	cloudy
1017	2 gal	7.38	8.70 mS/cm	25.0 °C	clear
1018	3 gal	7.33	8.76 mS/cm	25.4 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1019 Time Finished: 1019

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: screen 22.5 - 37.5'

Water Sampling Field Log

Well No.: PC-123

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy

Well Information:

Total Well Depth: 34.70 feet Time: 0440

Depth to Water: 22.93 feet

Height of Water Column (L): 11.77 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft

= 1.88 gal. * x 3 Well Volume (WV) 1 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0445	----	----	----	----	
0447	2 gal	7.55	7.39 mS/cm	23.2 °C	clear
0449	4 gal	7.44	7.32 mS/cm	23.7 °C	clear
0451	6 gal	7.44	7.32 mS/cm	23.9 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0453 Time Finished: 0453

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

mments: Top of screen- 20

Water Sampling Field Log

Well No.: PC-124

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy, some clouds

Well Information:

Total Well Depth: 34.60 feet Time: 0716

Depth to Water: 25.27 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 9.33 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.49 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0720	-----	-----	-----	-----	
0722	2 gal	7.52	10.95 mS/cm	23.2°C	slightly cloudy
0724	4 gal	7.32	10.69 mS/cm	23.6°C	slightly cloudy
0725	5 gal	7.31	10.90 mS/cm	23.8°C	clear

Sample Appearance: clear

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen- 20.3'

Closing Qc - 6.99

Water Sampling Field Log

Well No.: PC-125

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breezy

Well Information:

Total Well Depth: 33.50 feet Time: 0740

Depth to Water: 23.43 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 10.07 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.61 gal. * x 3 Well Volume (WV) 5 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0747	----	----	----	----	
0749	2 gal	7.50	7.20 mS/cm	24.2 °C	Very slightly cloudy
0751	4 gal	7.48	7.08 mS/cm	24.1 °C	clear
0753	5 gal	7.43	7.04 mS/cm	24.0 °C	clear

Sample Appearance: / clear

Sample Collection - Time Start: 0755 Time Finished: 0755

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 18.7

Water Sampling Field Log

Well No.: PC-126

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny, breezy

Well Information:

Total Well Depth: 34.30 feet Time: 0803

Depth to Water: 22.30 feet

Height of Water Column (L): 12.00 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 1.92 gal. * x 3 Well Volume (WV) 6 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0805	---	---	---	---	
0807	2 gal	7.46	10.79 mS/cm	22.8 °C	Very slightly cloudy
0809	4 gal	7.34	10.38 mS/cm	22.9 °C	Clear
0811	6 gal	7.33	10.22 mS/cm	23.1 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0813 Time Finished: 0813

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen-19.5

Water Sampling Field Log

Well No.: PC-127

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny, breezy

Well Information:

Total Well Depth: 34.70 feet Time: 0914

Depth to Water: 18.91 feet

Height of Water Column (L): 15.79 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft, 4-in. 0.65 gal/ft, 6-in 1.47 gal/ft = 2.52 gal. * x 3 Well Volume (WV) 8 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0917	----	----	----	----	
0920	3 gal	7.54	7.59 mS/cm	25.6 °C	Clear
0923	6 gal	7.40	7.25 mS/cm	25.2 °C	Clear
0926	8 gal	7.41	7.09 mS/cm	24.8 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 0928 Time Finished: 0928

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 15

Dup EC 1.05 / EC 24.6 / Temp

Water Sampling Field Log

Well No.: PC-128

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy

Well Information:

Total Well Depth: 34.70 feet Time: 0504

Depth to Water: 18.62 feet

Height of Water Column (L): 16.08 feet * 0.16 gal/ft (2-in.) / * 0.65 gal/ft (4-in.) / * 1.47 gal/ft (6-in) = 2.57 gal. * x 3 Well Volume (WV) 8 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0507	-----	-----	-----	-----	
0510	3 gal	7.52	6.70 mS/cm	24.4 °C	clear
0513	6 gal	7.47	6.81 mS/cm	24.2 °C	clear
0515	8 gal	7.45	6.80 mS/cm	24.6 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0517 Time Finished: 0517

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 14.8

Water Sampling Field Log

Well No.: PC-129

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy.

Well Information:

Total Well Depth: 37.70 feet Time: 0525

Depth to Water: 18.54 feet

Well Diameter (circle one) — 2-in. / 4-in. / 6-in — Well Volume (WV)

Height of Water Column (L): 19.16 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 3.06 gal. * x 3 9 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0529	----	----	----	----	
0532	3 gal	7.44	7.02 mS/cm	22.6 °C	clear
0535	6 gal	7.34	7.12 mS/cm	23.2 °C	clear
0538	9 gal	7.32	7.31 mS/cm	23.3 °C	clear

Sample Appearance: / clear

Sample Collection - Time Start: 0540 Time Finished: 0540

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-130

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy

Well Information:

Total Well Depth: 49.70 feet Time: 0551

Depth to Water: 19.24 feet

Height of Water Column (L): 30.46 feet

Well Diameter (circle one): 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in 1.47 gal/ft = 4.87 gal. * x 3 = 15 gal

Well Volume (WV)

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0557	-----	-----	-----	-----	
0601	5 gal	7.39	7.81 mS/cm	22.4 °C	clear
0605	10 gal	7.33	7.92 mS/cm	22.6 °C	clear
0609	15 gal	7.30	7.78 mS/cm	23.1 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0611 Time Finished: 0611

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 14.8

Water Sampling Field Log

Well No.: PC-131

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-6-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, some clouds

Well Information:

Total Well Depth: 39.40 feet Time: 0642

Depth to Water: 11.29 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L): 23.61 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 3.77 gal. * x 3 Well Volume (WV) 11 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0644	----	----	----	----	
0648	4 gal	7.42	12.70 mS/cm	23.8 °C	clear
0652	7 gal	7.30	12.83 mS/cm	24.0 °C	clear
0656	11 gal	7.26	13.14 mS/cm	24.2 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0658 Time Finished: 0658

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 9.8

Water Sampling Field Log

Well No.: PC-132

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-5-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy

Well Information:

Total Well Depth: 39.70 feet Time: 0649

Depth to Water: 9.92 feet

Height of Water Column (L): 29.78 feet

Well Diameter (circle one): 2-in. (0.16 gal/ft) 4-in. (* 0.65 gal/ft) 6-in (* 1.47 gal/ft) = Well Volume (WV) 4.76 gal. * x 3 14 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0652	----	----	----	----	
0656	5 gal	7.40	12.82 mS/cm	23.8 °C	cloudy
0700	10 gal	7.29	12.67 mS/cm	24.0 °C	clear
0704	14 gal	7.27	12.78 mS/cm	24.4 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0706 Time Finished: 0706

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: Top of screen - 9.8

Water Sampling Field Log

Well No.: PC-133

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ◉ Disposable Bailer O Electric pump O

Weather Conditions: Windy, Warm, Overcast

Well Information:

5-28-15

Total Well Depth: 40.2 feet Time: 1110

Depth to Water: - 7.06 feet

			Well Diameter (circle one)				**Purge Volume**
			2-in.	**4-in.**	**6-in.**		
Water Column (L):	33.14 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	**gals**	**pH**	**Temp**	**Observations of Sample**
1032		7.28	26.0	Clear

Comments:

Sample Collection Time - 1033

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-134A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-7-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 69.70 feet Time: 0920

Depth to Water: 29.91 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (WV)

Height of Water Column (L): 39.79 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 6.36 gal. * x 3 19 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0923	-----	-----	-----	-----	
0928	7 gal	7.58	2.47 mS/cm	25.6 °C	clear
0933	13 gal	7.56	2.40 mS/cm	25.0 °C	clear
0938	19 gal	7.50	2.56 mS/cm	25.3 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0940 Time Finished: 0940

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 59.7

Water Sampling Field Log

Well No.: PC-135A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-7-53

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 150.8 feet Time: 0945

Depth to Water: 29.18 feet

Height of Water Column (L): 21.62 feet * Well Diameter (circle one): 2-in. 0.16 gal/ft / 4-in. 0.65 gal/ft / 6-in 1.47 gal/ft = 3.45 gal. * x 3 Well Volume (WV) 10 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0946	-----	-----	-----	-----	
0948	4 gal	7.21	12.59 mS/cm	25.0 °C	clear
0950	7 gal	7.07	13.74 mS/cm	25.8 °C	clear
0952	10 gal	7.06	13.82 mS/cm	25.7 °C	clear
0954	12 gal	7.02	13.87 mS/cm	25.5 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0955 Time Finished: 0955

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 30.7 EB-3 collected here, before moving to next well 3615 1005 CR, pH, TDS, CRVI, CLO4

Water Sampling Field Log

Well No.: PC-136

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-20-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, cloudy, breezy

Well Information:

Total Well Depth: 40.3 feet Time: 1133

Depth to Water: 32.63 feet

Height of Water Column (L): 7.67 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 1.22 gal. * x 3 Well Volume (WV) 4 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1135	----	-----	-----	-----	
1137	2 gal	7.45	6.77 mS/cm	25.5 °C	light yellow
1138	3 gal	7.42	6.79 mS/cm	25.5 °C	same
1139	4 gal	7.38	6.80 mS/cm	25.3 °C	same

Sample Appearance: light yellow

Sample Collection - Time Start: 1141 Time Finished: 1141

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 21.0

Water Sampling Field Log

Well No.: PC-137

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-20-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Cloudy, breezy

Well Information:

Total Well Depth: 73.70 feet Time: 1106

Depth to Water: 31.14 feet

Height of Water Column (L): 42.56 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) | 4-in. * 0.65 gal/ft | 6-in * 1.47 gal/ft

= 6.80 gal. * x 3 Well Volume (WV) 20 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1107	-----	-----	-----	-----	
1114	7 gal	7.63	3.94 mS/cm	25.5 °C	clear
1120	14 gal	7.67	3.65 mS/cm	25.3 °C	clear
1126	20 gal	7.67	3.68 mS/cm	25.1 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1128 Time Finished: 1128

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 63.3'

LS3 field

Water Sampling Field Log

Well No.: PC-1420

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-27-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, partacly cloudy

Well Information:

Total Well Depth: 34.5 feet Time: 0833

Depth to Water: 27.72 feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Height of Water Column (L): 6.78 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.08 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0836	-----	-----	-----	-----	
0838	1 gal	7.62	6.83 mS/cm	25.6 °C	clear
0839	2 gal	7.56	6.56 mS/cm	25.5 °C	clear
0840	3 gal	7.44	6.52 mS/cm	25.6 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0841 Time Finished: 0841

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen. 21.7

Water Sampling Field Log

Well No.: PC-143

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-21-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 65.0 feet Time: 0947

Depth to Water: 29.71 feet

Height of Water Column (L): 35.29 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft, 4-in. * 0.65 gal/ft, 6-in * 1.47 gal/ft = 5.64 gal. * x 3 Well Volume (WV) 17 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0951	-----	-----	-----	-----	
0955	6 gal	7.43	11.05 mS/cm	27.3 °C	clear
0959	12 gal	7.41	11.11 mS/cm	26.5 °C	clear
1004	17 gal	7.40	10.94 mS/cm	26.1 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 1006 Time Finished: 1006

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of Screen- 29.7

EB-6 collected here 1015 before moving to next well
3 btls TDS, pH, CRVI, CL, clo4

Water Sampling Field Log

Well No.: PC-144

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-20-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, warm

Well Information:

Total Well Depth: 39.70 feet Time: 0848

Depth to Water: 30.52 feet

Well Diameter (circle one): 2-in. 4-in. 6-in

Height of Water Column (L)		Well Diameter			Well Volume (WV)	Purge Factor	Purge Volume
9.18 feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	1.46 gal.	* 3 =	4 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0853	-----	-----	-----	-----	
0856	2 gal	6.97	11.12 mS/cm	26.0 °C	clear
0857	3 gal	7.03	11.20 mS/cm	25.4 °C	clear
0858	4 gal	7.07	11.22 mS/cm	25.6 °C	clear
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 0859 Time Finished: 0859

Analyses:	CLO4	TDS	TDS/pH	CR
Bottles:	1 BTL	1 BTL	1 BTL	1BTL

TOTAL BOTTLES: 3

Comments: Dup 1 collected here for same analyses 3 bttls 0859

Water Sampling Field Log

Well No.: PC-145

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-20-15

Sampling Method: Electric Pump ◉ Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, breezy, warm

Well Information:

Total Well Depth: 39.7 feet Time: 1051

Depth to Water: 32.74 feet

Height of Water Column (L): 6.96 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = 1.11 gal. * x 3 Well Volume (WV) 3 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
1053	-----	-----	-----	-----	
1055	1 gal	7.50	9.52 mS/cm	25.6 °C	Clear
1056	2 gal	7.47	9.46 mS/cm	25.0 °C	Clear
1057	3 gal	7.40	9.34 mS/cm	25.2 °C	Clear

Sample Appearance: Clear

Sample Collection - Time Start: 1059 Time Finished: 1059

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: Top of screen - 24.7

Water Sampling Field Log

Well No.: PC-146

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-21-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: _____ feet Time: 0825

Depth to Water: 29.94 feet

Well Diameter (circle one) 2-in. 4-in. 6-in Well Volume (WV)

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * x 3 _____

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				well dry
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen - 19.7

Water Sampling Field Log

Well No.: PC-147

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-24-15

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 31.7 feet Time: 0820

Depth to Water: 30.89 feet

Height of Water Column (L): .81 feet

Well Diameter (circle one): 2-in. * 0.16 gal/ft (circled) 4-in. * 0.65 gal/ft 6-in * 1.47 gal/ft = _____ gal. * x 3 = _____ Well Volume (WV)

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	---	---	---	---	
	gal				
	gal				well considered dry
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments: Top of screen- 21.7'

Water Sampling Field Log

Well No.: PC-148

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-21-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 50.2 feet Time: 0828

Depth to Water: 27.83 feet

Height of Water Column (L): 22.37 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft (Well Diameter (circle one): 2-in. 4-in. 6-in) = 32.88 gal. * x 3 Well Volume (WV) 97 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0834	-----	-----	-----	-----	
0842	10 gal	7.53	901 mS/cm	25.4 °C	clear
0850	20 gal	7.45	925 mS/cm	25.7 °C	clear
0858	30 gal	7.30	9.28 mS/cm	25.7 °C	clear

Sample Appearance: clear

Sample Collection - Time Start: 0859 Time Finished: 0859

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Top of screen - 24.5

TOTAL BOTTLES: 3

Comments: historic - well slow to recharge
well purged 25 gal before sample collected
Dup 2 collected here for same analyses 3 bts 0859

Water Sampling Field Log

Well No.: PC-149

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Date: 5-21-15

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 50.0 feet Time: 0907

Depth to Water: 29.51 feet

Height of Water Column (L): 20.49 feet * 0.16 gal/ft * 0.65 gal/ft (1.47 gal/ft) = 30.1 gal. * x 3 90 gal

Well Diameter (circle one): 2-in. 4-in. 6-in

Well Volume (WV)

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
0911	-----	-----	-----	-----	
0919	10 gal	7.42	5.76 mS/cm	25.0 °C	clear
0927	20 gal	7.47	5.32 mS/cm	25.4 °C	clear
0935	30 gal	7.36	5.28 mS/cm	26.2 °C	clear

Sample Appearance: Clear

Sample Collection - Time Start: 0938 Time Finished: 0938

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Top of screen 24.5

TOTAL BOTTLES: 3

Comments: historic- well slow to recharge
well purged 30 gal. before sample collected

Water Sampling Field Log

Well No.: PC-150

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-4-15

Sampling Method: Sample Port ◉ Disposable Bailer O Electric pump O

Weather Conditions: Warm, sunny, some clouds

Well Information:

Total Well Depth: 45.7 feet Time: 1058 (5-28-15)

Depth to Water: - 33.72 feet

			Well Diameter (circle one) 2-in.	4-in.	6-in.		Purge Volume
Water Column (L):	11.28 feet	X	0.4893	1.9	4.41	=	

Field Measurements: Depth Purging From: 2 ft below DTW

Time	gals	pH	Temp	Observations of Sample
1115		7.32	27.7	Clear

Comments:

Sample Collection Time - 1116

Analyses:	CR	CLO4	pH /TDS	pH / TDS/ CRVI	pH/ TDS / NO3	pH / TDS / CRVI / NO3
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1Bottle

TOTAL Bottles- 3

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TR-1

Sampler's Name: C.H., B.T., D.W., L.H.

Purging Equipment: ARTESIAN WELL

Casing Type: PVC

Casing Diameter: 4" Inches

Depth to Well Bottom: ≈ 312.0' Feet

Depth to Water: ? Feet

Pump Intake Depth: — Feet

Pump Setting: — PSI

Screened Interval: 281.5' – 311.5' Feet

Pump / Tubing Type: —

Equipment Cleaning Method: ALCONOX/RINSE

Purge Water Disposal: ENVIROGEN HOLDING POND

Actual Sample Depth: SURFACE Feet

Sample Collection Date: 5-18-15

Sample Collection Time: 1245

Sampling Equipment: —

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
1120	100	300		1627 µS/cm	34.90	0.66 NTU	7.52	3.18	181.6	
1123	100	600		1609 µS/cm	34.60	0.71 NTU	7.64	4.04	175.4	
1127	100	1000		1563 µS/cm	34.10	0.58 NTU	7.71	4.16	170.3	
1130	100	1300		1555 µS/cm	33.80	0.51 NTU	7.60	4.85	176.4	
1133	100	1600		1539 µS/cm	33.30	0.55 NTU	7.59	5.12	175.5	
1137	100	2000		1528 µS/cm	32.90	0.49 NTU	7.65	4.95	171.6	
1140	100	2300		1519 µS/cm	32.70	0.47 NTU	7.60	4.99	170.8	

Total Water Volume Purged: 2,300 ml

Comments: WELL HEAD PSI STROKES – 3.25 PSI

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TR-2

Sampler's Name: Bryce Tsao

Purging Equipment: QED Micro Purge pump

Casing Type: PVC

Casing Diameter: 4" Inches

Depth to Well Bottom: 175 Feet

Depth to Water: 25.77 Feet

Pump Intake Depth: 160 Feet

Pump Setting: 85 PSI

Screened Interval: 144.5 - 174.5 Feet

Pump / Tubing Type: QED/poly

Equipment Cleaning Method: Alconox/Rinse

Purge Water Disposal: Envirogen Holding Pond

Actual Sample Depth: 160 Feet

Sample Collection Date: 5-21-15

Sample Collection Time: 1330

Sampling Equipment: QED pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
1304	100	300	25.14	1.0	27.16	20.1	8.27	3.84	85	
1307	100	600	25.22	.997	27.17	23.5	8.39	3.46	82	
1310	100	900	25.31	.995	27.22	25.4	8.38	3.41	84	
1313	100	1200	25.41	.994	27.33	21.2	8.42	3.33	83	
1316	100	1500	25.46	.993	27.33	17.16	8.46	2.98	83	
1319	100	1800	25.54	.995	27.30	15.73	8.57	3.02	77	
1321	100	2100	25.71	1.0	27.29	15.03	8.53	2.91	83	
1324	100	2400	25.74	1.0	27.32	14.97	8.52	2.89	84	

Total Water Volume Purged: 2,400 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TR-3

Sampler's Name: C.H., B.T., D.W., L.H.

Purging Equipment: ARTESIAN PURGE METHOD

Casing Type: 4"

Casing Diameter: 4" Inches

Depth to Well Bottom: 250.0' Feet

Depth to Water: SURFACE Feet

Pump Intake Depth: — Feet

Pump Setting: — PSI

Screened Interval: 219.5'-249.5' Feet

Pump / Tubing Type: —

Equipment Cleaning Method: ALCONOX/RINSE

Purge Water Disposal: ENVIROGEN HOLDING POND

Actual Sample Depth: SURFACE Feet

Sample Collection Date: 5-15-15

Sample Collection Time: 1315

Sampling Equipment: —

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
1255	100	300		1276 µS/cm	23.80	1.11 NTU	8.01	4.59	188.4	
1258	100	600		1253 µS/cm	23.75	0.90 NTU	8.03	5.02	189.6	
1301	100	900		1261 µS/cm	23.76	0.77 NTU	8.02	5.02	190.1	
1304	100	1200		1265 µS/cm	23.69	0.51 NTU	8.01	4.96	190.9	
1307	100	1500		1272 µS/cm	23.62	0.49 NTU	7.99	5.01	191.3	
1310	100	1800		1276 µS/cm	23.60	0.45 NTU	8.01	5.03	191.5	

Total Water Volume Purged: 1,800 ml

Comments: —

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516

Well Number: TR-4

Sample Collection Date: 5-18-15

Sampler's Name: C.H., B.T., D.W., L.H.

Sample Collection Time: 1235

Purging Equipment: DEDICATED MICRO PURGE PUMP

Sampling Equipment: DEDICATED PUMP

Casing Type: PVC

Casing Diameter: 4" Inches

Depth to Well Bottom: 145.0' Feet

Depth to Water: 35.98' Feet

Pump Intake Depth: ? Feet

Pump Setting: 80 PSI

Screened Interval: 124.5-144.5' Feet

Pump / Tubing Type: QED/POLY

Equipment Cleaning Method: ALCONOX/RINSE

Purge Water Disposal: ENVIROGEN HOLDING POND

Actual Sample Depth: ? Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
1203	100	300	36.67	1.13 mS/cm	23.68	1.53 NTU	8.02	3.99	185	
1206	100	600	36.70	1.12 mS/cm	23.44	0.61 NTU	7.91	4.16	193	
1209	100	900	36.72	1.11 mS/cm	23.23	0.41 NTU	7.89	4.31	179	
1212	100	1200	36.77	1.10 mS/cm	23.01	0.33 NTU	8.13	4.41	175	
1215	100	1500	36.81	1.09 mS/cm	22.96	0.28 NTU	7.96	4.49	177	
1218	100	1800	36.85	1.08 mS/cm	22.89	0.33 NTU	7.92	4.45	179	
1221	100	2100	36.89	1.08 mS/cm	22.83	0.28 NTU	7.95	4.43	182	
1224	100	2400	36.96	1.07 mS/cm	22.75	0.29 NTU	7.99	4.42	185	

Total Water Volume Purged: 2,400 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TR-5

Sample Collection Date: 5-18-5

Sampler's Name: C.H., B.T., D.W., L.H.

Sample Collection Time: 1355

Purging Equipment: ARTESIAN WELL WITH DEDICATED PUMP

Sampling Equipment: DEDICATED PUMP

Casing Type: PVC

Casing Diameter: 4" Inches

Depth to Well Bottom: 251.5' Feet

Depth to Water: 0.00' Feet

Pump Intake Depth: ? Feet

Pump Setting: 35 PSI CHANGED TO 20 PSI

Screened Interval: 221.0'—257.0' Feet

Pump / Tubing Type: AED / POLY

Equipment Cleaning Method: ALCONOX / RINSE

Purge Water Disposal: ENVIROGEN HOLDING POND

Actual Sample Depth: ? Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
1331	100	300	0.00'	1.31 mS/cm	22.86	1.84 NTU	7.88	7.05	146	
1334	100	600	|	1.30 mS/cm	23.26	1.31 NTU	7.82	3.86	157	
1337	100	900	|	1.30 mS/cm	23.26	0.91 NTU	7.90	3.43	154	
1340	100	1200	|	1.30 mS/cm	23.13	0.89 NTU	7.98	3.30	151	
1343	100	1500	|	1.30 mS/cm	23.06	0.70 NTU	8.01	3.26	148	
1346	100	1800	|	1.29 mS/cm	23.02	0.66 NTU	8.03	3.23	146	
1349	100	2100	|	1.29 mS/cm	23.00	0.61 NTU	8.12	3.19	145	

Total Water Volume Purged: 2,100 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TK-6

Sampler's Name: C.H., B.T., D.W., L.H.

Purging Equipment: DEDICATED MICRO PURGE PUMP

Casing Type: PVC

Casing Diameter: 4" Inches

Depth to Well Bottom: 80.0' Feet

Depth to Water: 36.35' Feet

Pump Intake Depth: 70.0' Feet

Pump Setting: 26-31 PSI

Screened Interval: 60'-80' Feet

Pump / Tubing Type: DED / POLY

Equipment Cleaning Method: ALGONOX / RINSE

Purge Water Disposal: ENVIROGEN HOLDING POND.

Actual Sample Depth: 70.0' Feet

Sample Collection Date: 5-18-15

Sample Collection Time: 1440

Sampling Equipment: DEDICATED PUMP

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
1413	100	300	36.62	31.5 mS/cm	22.79	2.15 NTU	6.88	4.49	161	
1416	100	600	36.62'	31.8 mS/cm	22.50	2.06 NTU	6.93	1.75	160	
1419	100	900	36.62	31.7 mS/cm	23.38	1.11 NTU	7.02	1.15	160	
1422	100	1200	36.63'	31.7 mS/cm	23.47	0.56 NTU	7.10	0.95	156	
1425	100	1500	36.64'	31.7 mS/cm	23.59	0.49 NTU	7.07	0.82	158	
1428	100	1800	36.65	31.7 mS/cm	23.63	0.39 NTU	7.08	0.75	154	
1431	100	2100	36.65	31.7 mS/cm	23.64	0.28 NTU	7.15	0.72	153	

Total Water Volume Purged: 2100 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TR-7

Sample Collection Date: 5-18-15

Sampler's Name: C.H., B.T., D.W., L.H.

Sample Collection Time: 1525

Purging Equipment: DEDICATED MICRO PURGE Pump

Sampling Equipment: DEDICATED PUMP

Casing Type: PVC

Casing Diameter: 4" Inches

Depth to Well Bottom: 290.5' Feet

Depth to Water: 9.27' Feet

Pump Intake Depth: ? Feet

Pump Setting: 45-55 PSI

Screened Interval: 260.0'-290.0' Feet

Pump / Tubing Type: DED / PVC

Equipment Cleaning Method: ALCONOX / RINSE

Purge Water Disposal: ENVIROGEN HOLDING POND

Actual Sample Depth: ? Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
1457	100	300	9.40'	1.35 mS/cm	22.73	3.18 NTU	8.17	4.71	122	
1500	100	600	9.43'	1.35 mS/cm	22.84	2.64 NTU	7.81	4.67	136	
1503	100	900	9.44'	1.37 mS/cm	23.08	1.13 NTU	7.62	4.42	137	
1506	100	1200	9.44'	1.35 mS/cm	23.11	0.75 NTU	7.64	4.47	143	
1509	100	1500	9.45	1.36 mS/cm	23.13	0.56 NTU	7.67	4.30	146	
1512	100	1800	9.47'	1.37 mS/cm	23.20	0.49 NTU	7.65	4.28	145	
1515	100	2100	9.49'	1.38 mS/cm	23.22	0.41 NTU	7.66	4.26	144	

Total Water Volume Purged: 2,100 ml

Comments:

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/

STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TR-8

Sample Collection Date: 5-19-15

Sampler's Name: Bryce Tsao

Sample Collection Time: 7:09

Purging Equipment: Dedicated micro pump

Sampling Equipment: Dedicated pump

Casing Type: PVC

Casing Diameter: 4" Inches

Depth to Well Bottom: 93.5 Feet

Depth to Water: 49.80 Feet

Pump Intake Depth: ? Feet

Pump Setting: 40 PSI increased to 50 PSI.

Screened Interval: 63.½ - 93.0' Feet

Pump / Tubing Type: RED / POLY

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen Holding Pond

Actual Sample Depth: ? Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
6:48	200	600	49.84	1.84	22.05	2.31	8.34	6.33	94	
6:51	200	1200	49.83	1.81	22.69	6.02	8.04	6.70	104	
6:54	200	1800	49.86	1.77	23.0	8.89	7.98	6.70	111	
6:57	200	2400	49.86	1.75	23.12	4.66	8.06	6.73	114	
7:00	200	3000	49.87	1.74	23.21	4.15	8.01	6.63	117	
7:03	200	3600	49.87	1.73	23.30	3.71	7.97	6.55	116	
7:06	200	4200	49.88	1.72	23.41	3.32	7.97	6.59	118	
7:09										Sample

Total Water Volume Purged: 4,200 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TR-9

Sample Collection Date: 6-10-15

Sampler's Name: Bryce Tsao

Sample Collection Time: 12:40

Purging Equipment: Dedicated micro purge pump

Sampling Equipment: Dedicated pump

Casing Type: PVC

Casing Diameter: 4" Inches

Depth to Well Bottom: 250.5 Feet

Depth to Water: 34.22 Feet

Pump Intake Depth: ? Feet

Pump Setting: 65 PSI

Screened Interval: 230 - 250 Feet

Pump / Tubing Type: QED / poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen Holding Pond

Actual Sample Depth: ? Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
1222	250	750	34.55	1241	27.4	3.81	7.99	4.63	-396	
1225	250	1000	34.56	1246	27.3	3.21	7.96	4.53	-394	
1228	250	1750	34.57	1248	27.3	3.37	7.91	4.51	-387	
1231	250	2500	34.57	1250	27.4	3.41	7.95	4.43	-382	
1234	250	3250	34.58	1252	27.3	3.48	7.97	4.44	-381	
1237	250	4000	34.58	1252	27.3	3.46	7.97	4.41	-383	

Total Water Volume Purged: ~~[illegible]~~ 4000ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TR-10

Sampler's Name: Bryce Tsao

Purging Equipment: Dedicated micro purge pump

Casing Type: PVC

Casing Diameter: 4" Inches

Depth to Well Bottom: 100.5 Feet

Depth to Water: 63.02 Feet

Pump Intake Depth: 90 Feet

Pump Setting: 55 PSI

Screened Interval: 80-100 Feet

Pump / Tubing Type: QED / PE14

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen holding pond

Actual Sample Depth: 90 Feet

Sample Collection Date: 6-10-19

Sample Collection Time: 11:58

Sampling Equipment: Dedicated pump

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
11:43	200	600	62.97	3.28	27.0	12.87	7.82	7.44	-369	
11:46	200	1200	63.03	3.29	26.5	5.70	7.85	6.31	-372	
11:49	200	1800	63.06	3.29	26.5	4.01	7.81	5.83	-395	
11:52	200	2400	63.09	3.29	26.5	3.89	7.79	6.12	-378	
11:55	200	3000	63.12	3.32	26.6	3.81	7.78	6.10	-393	

Total Water Volume Purged: 3,000 ml

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TR-11

Sampler's Name: Bryce Tsao

Purging Equipment: Artesian well

Casing Type: PVC

Casing Diameter: 4 Inches

Depth to Well Bottom: 230.5 Feet

Depth to Water: – Feet

Pump Intake Depth: – Feet

Pump Setting: – PSI

Screened Interval: 210-230 Feet

Pump / Tubing Type: –

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Envirogen holding pond.

Actual Sample Depth: Surface Feet

Sample Collection Date: 5-21-15

Sample Collection Time: 9:40

Sampling Equipment: –

Time	Purge Rate (~~ml~~/min)	Volume Purged (~~ml~~) G	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
9:15	.5 GPM	1.5		.684	22.15	.19	8.19	5.65	-28	
9:18	.5 GPM	3		.903	23.17	.47	8.46	4.06	65	
9:21	.5 GPM	4.5		1.24	24.83	.27	8.34	4.20	74	
9:24	.5 GPM	6		1.23	24.93	.21	8.37	4.0	77	
9:27	.5 GPM	7.5		1.23	24.74	.74	8.41	4.12	75	
9:30	.5 GPM	9		1.23	24.91	.90	8.41	4.08	76	
9:33	.5 GPM	11.5		1.23	24.88	.98	8.39	4.01	75	

Total Water Volume Purged: 11.5 Gallons

Comments:

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STEWART ENVIRONMENTAL, INC.

LOW FLOW GROUNDWATER WELL PURGING AND SAMPLING LOG

Project Number: 13-516.1

Well Number: TR-12

Sample Collection Date: 5-21-19

Sampler's Name: Bryce Tsao

Sample Collection Time: 11:38

Purging Equipment: QED micro purge pump

Sampling Equipment: QED pump

Casing Type: PVC

Casing Diameter: 4" Inches

Depth to Well Bottom: 292.5 Feet

Depth to Water: .3 Feet

Pump Intake Depth: 180.0 Feet

Pump Setting: 95 PSI

Screened Interval: 272-292 Feet

Pump / Tubing Type: QED / Poly

Equipment Cleaning Method: Alconox / Rinse

Purge Water Disposal: Environgen Holding Pond.

Actual Sample Depth: 180 Feet

Time	Purge Rate (ml/min)	Volume Purged (ml)	Depth to Water	Conductivity	Temp (°C)	Turbidity	pH	DO	ORP	Water Description (Color, Odor, Sheen, Etc.)
11:10	150	450	1.06	.906	25.92	3.34	8.74	4.81	66	
11:13	150	900	1.25	.897	25.90	6.18	8.75	3.05	72	
11:16	150	1350	1.47	.894	26.22	5.32	8.68	2.44	76	
11:19	150	1800	1.64	.893	26.76	4.75	8.68	2.39	79	
11:22	150	2250	1.75	.893	27.27	4.87	8.62	2.33	82	
11:25	150	2700	1.88	.893	27.35	4.32	8.64	2.29	80	
11:28	150	3150	2.02	.894	27.15	4.0	8.66	2.30	81	
11:31	150	3600	2.16	.894	27.07	4.16	8.66	2.27	82	

Total Water Volume Purged: 3,600 ml

Comments:

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APPENDIX D
DATA VALIDATION SUMMARY REPORT (DVSR)

Data Validation Summary Report
January through June 2015
Annual Remedial Performance Sampling
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

Prepared for

Ramboll Environ
Emeryville, California

Prepared by

Laboratory Data Consultants, Inc.
27010 Loker Avenue West, Suite 220
Carlsbad, California 92010

September 9, 2015

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LIST OF ACRONYMS AND ABBREVIATIONS

CCB	Continuing Calibration Blank
DQO	Data Quality Objectives
DNR	Do Not Report
DUP	Duplicate
DVSR	Data Validation Summary Report
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
LDC	Laboratory Data Consultants, Inc.
MS/MSD	Matrix Spike / Matrix Spike Duplicate
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness, Sensitivity
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance / Quality Control
QAPP	Quality Assurance Project Plan
RPD	Relative Percent Difference
SDG	Sample Delivery Group
SQL	Sample Quantitation Limit
TDS	Total Dissolved Solids
TIN	Total Inorganic Nitrogen
TOC	Total Organic Carbon
TOX	Total Organic Halides
USEPA	United States Environmental Protection Agency
ug/L	Micrograms per Liter
mg/L	Milligram per Liter
%D	Percent Difference
%R	Percent Recovery

1.0 INTRODUCTION

This data validation summary report (DVSR) has been prepared by Laboratory Data Consultants, Inc. (LDC) to assess the validity and usability of laboratory analytical data from the Annual Remedial Performance Sampling conducted at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada. The assessment was performed by Ramboll Environ as a part of the *Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada* dated May 2009 and included the collection and analyses of 592 environmental and quality control (QC) samples. The analyses were performed by the following methods:

Metals by Environmental Protection Agency (EPA) Method 200.7

Wet Chemistry:
Hexavalent Chromium by EPA Method 218.6
Chloride, Nitrate as Nitrogen, Nitrite as Nitrogen, and Sulfate (Anions) by EPA Method 300.0
Chlorate by EPA Method 300.1B
Perchlorate by EPA Method 314.0
Ammonia as Nitrogen by EPA Method 350.1
Phenolics by EPA Method 420.1
Nitrate/Nitrite as Nitrogen and Total Inorganic Nitrogen (TIN) by Calculation Method
Specific Conductance by Standard Method 2510
Total Dissolved Solids (TDS) by Standard Method 2540C
pH by Standard Method 4500 H+B
Total Organic Carbon (TOC) by Standard Method 5310C
Total Organic Halides (TOX) by EPA SW-846 Method 9020B

Laboratory analytical services were provided by TestAmerica, Inc. The samples were grouped into sample delivery groups (SDGs). The water samples are associated with QA/QC samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, matrix, and validation level. Table II is a reference table that identifies the QC elements reviewed for each validation level per method, as applicable.

The laboratory analytical data were validated in accordance with procedures described in the Nevada Division of Environmental Protection (NDEP) *Data Verification and Validation Requirements - Supplement* established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, April 13, 2009. Consistent with the NDEP requirements, approximately ninety percent of the analytical data (412 of the 459 samples) were validated according to Stage 2B data validation procedures and ten percent of the analytical data (47 of the 459 samples) were validated according to Stage 4 data validation procedures. The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents: *Basic Remediation Company (BRC) Standard Operating Procedures (SOP) 40 Data Review/Validation*, Revision 4, May 2009; *Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada (*QAPP), Revision, May 2009; Nevada Department of Environmental Protection (NDEP) *Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas*, January 5 2012; *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004; and the *EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste,* update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The PARCCS summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCCS criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 5.0 presents a summary of the PARCCS criteria by comparing quantitative parameters with acceptability criteria defined in the project DQO's. Qualitative PARCCS criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors for sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: equipment blanks (EBs), field blanks (FBs), field duplicates (FDs), method blanks, laboratory control samples/laboratory control sample duplicates (LCS/LCSDs), laboratory duplicates (DUP), and matrix spike/matrix spike duplicates (MS/MSDs).

Before conducting the PARCCS evaluation, the analytical data were validated according to the BRC SOP-40 (July 2007), QAPP (May 2009), Functional Guidelines (USEPA 2004), and EPA SW 846 Test Methods. Samples not meeting the acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

J- <u>Estimated</u> The associated numerical value is an estimated quantity with a negative bias. The analyte was detected but the reported value may not be accurate or precise.

J+ <u>Estimated</u> The associated numerical value is an estimated quantity with a positive bias. The analyte was detected but the reported value may not be accurate or precise.

J <u>Estimated</u> The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits or any result that is detected in an environmental sample and associated blank at less than the required action level, but the exceedance was not sufficient to cause rejection of the data.

R <u>Rejected</u> The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte. The "R" designation is also applied to yield only one complete set of data for a given sample and eliminate redundant data.

U <u>Nondetected</u> Analyses were performed for the compound or analyte, but it was not detected.

UJ Estimated/Nondetected Analyses were performed for the compound or analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, or other spike recovery.

DNR Do Not Report A more appropriate result is reported from another analysis or dilution.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

A Indicates the finding is based upon technical validation criteria.
P Indicates the finding is related to a protocol/contractual deviation.

The hierarchy of flags is listed below:

R > J	The R flag will always take precedence over the J qualifier.
J+	The high bias (J+) flag is applied only to detected results.
J > J+ or J-	A non-biased (J) flag will always supersede biased (J+ or J-) flags since it is not possible to assess the direction of the potential bias.
J = J+ plus J-	Adding biased (J+, J-) flags with opposite signs will result in a non-biased flag (J).
UJ = U plus J or J-	The UJ flag is used when a non-detected (U) flag is added to a biased (J-) or non-biased flag (J).

Table III lists the reason codes used. Reason codes explain why flags have been applied and identify possible limitations of data use. Reason codes are cumulative except when one of the flags is R then only the reason code associated to the R flag will be used.

Table IV presents the overall qualified results after all the flags or validation qualifiers and associated reason codes have been applied.

Once the data are reviewed and qualified according to the BRC SOP-40, QAPP, functional guidelines, and EPA Test Methods, the data set is then evaluated using PARCCS criteria. PARCCS criteria provide an evaluation of overall data usability. The following is a discussion of PARCCS criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data. Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

where:
D1 = reported concentration for the sample
D2 = reported concentration for the duplicate

Precision is primarily assessed by calculating an RPD from the percent recoveries of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to an MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from either an aqueous matrix in the absence of matrix interferences.

One primary sample is analyzed and accompanied by an unspiked laboratory duplicate. The data reviewer compares the reported results of the primary analysis and the laboratory duplicate, then calculates RPDs, which are used to assess laboratory precision.

Laboratory and field sampling precision are evaluated by calculating RPDs for aqueous field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in either MS/MSD samples or LCS/LCSD indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the practical quantitation limit (PQL) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and LCSD. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

where:
A = measured concentration in the spiked sample
B = measured concentration of the spike compound in the unspiked sample
C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples and LCS/LCSD is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blanks, samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, calibration blanks, EBs, and FBs.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Initial and continuing calibration blanks (ICB/CCBs) consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

Equipment blanks consist of analyte-free water poured over or through the sample collection equipment. The water is collected in a sample container for laboratory analysis. These blanks are collected after the sampling equipment is decontaminated and measure efficiency of the decontamination procedure. Equipment blanks were collected and analyzed for all target analytes.

Field blanks consist of analyte-free source water stored at the sample collection site. The water is collected from each source water used during each sampling event. Field blanks were collected and analyzed for all target analytes.

Contaminants found in both the environmental sample and the blank sample are assumed to be laboratory artifacts if both values are less than the PQL or if a sample result and blank contaminant value were greater than the PQL and less than 10 times the blank contaminant value. The blanks and associated samples were evaluated according to the NDEP *BMI Plant Sites and Common Areas Projects, Henderson, Nevada, Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas*, January 5 2012.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedance can cause loss of sample constituents due to biodegradation, precipitation, volatization, and chemical degradation. In accordance with EPA guidance (USEPA 2004), sample results for analyses that were performed after the method holding time but less than two times the method holding time were qualified as estimated (J- or UJ) and sample results for analyses that were performed after two times the method holding time were qualified as rejected (R), with the exception of specific pH results detailed in Attachment B, Section I. Although the holding time for some pH analyses was exceeded by more than two times the holding time, using professional judgment the associated sample results were qualified as estimated (J/UJ) because the sample condition and integrity was maintained during collection, transport, and storage.

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCCS criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 90 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

where:
%C = percent completeness
T = total number of sample results
R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the QAPP, with the number determined above.

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. This capability is established during the planning phase to meet the DQOs. It is important that calibration requirements, detection limits (DLs), and PQLs presented in the QAPP are achieved and that target analytes can be detected at concentrations necessary to support the DQOs. The method detection limits (MDLs) represent the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. Sample quantitation limits (SQLs) are adjusted MDL values that reflect sample specific actions, such as dilutions or varying aliquot sizes. PQLs are the lowest level at which the entire analytical system gives a recognizable signal and acceptable calibration point for the analyte. The laboratory is required to report detected analytes down to the MDL for this project. The laboratory uses a formatter that reports estimated values down to the MDL. In addition, sample results are compared to method blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The following sections present a review of QC data for each analytical method.

2.0 METALS

A total of 384 water samples were analyzed for metals by EPA Method 200.7. All metals data were assessed to be valid since none of the 406 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the ongoing calibration acceptability of the analytical system. The most critical of the two calibration parameters, r, has the potential to affect data accuracy across an SDG when it is outside the acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995 and the %Rs in the continuing calibration verifications met the acceptance criteria of 90-110%.

2.1.2 MS/MSD Samples

Due to low MS/MSD %Rs outside of acceptance criteria as stated in the QAPP, the boron results for samples M-5A and M-7B (both sampled on 5/22/15) and the chromium result for sample ART-7A (sampled on 2/13/15) were qualified as detected estimated (J-/J). The details regarding the qualification of results are presented in Attachment A, Section VI.

2.1.3 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs met acceptance criteria as stated in the QAPP.

2.1.4 ICP Interference Check Sample

All ICP interference check %Rs met acceptance criteria as stated in the QAPP.

2.1.5 FD Samples

The field duplicate samples were evaluated for acceptable precision with RPDs or difference in instances the results were less than five times the reporting limit for the compounds. The field duplicate RPDs or differences were within the acceptance criteria. The field duplicate RPDs or differences are presented in detail in Attachment A, Section X.

2.1.6 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

2.2 Representativeness

2.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 180-day analysis holding time criteria for metals.

2.2.2 Blanks

Method blanks, ICB/CCBs, EBs, and FBs were analyzed to evaluate representativeness. The concentration for an individual target compound in any of the types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

> Results Below the PQL If a sample result and blank contaminant value were less than the PQL, the sample result was amended as estimated (J) at the concentration reported in the sample results.

Results Above the PQL If a sample result and blank contaminant value were greater than the PQL and less than 10 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the concentration reported in the sample results.

No Action If blank contaminant values were less than the PQL and associated sample results were greater than the PQL, or if blank contaminant values were greater than the PQL and associated sample results were greater than 10 times the blank contaminant value, the result was not amended.

2.2.2.1 Method and Calibration Blanks

No contaminants were detected in the method or calibration blanks for this analysis.

2.2.2.2 EBs and FBs

The chromium result in sample PC-143 (sampled on 5/21/15) was qualified as detected estimated (J) due to contaminants detected in the equipment blanks. No contaminants were detected in the field blanks for this analysis. The details regarding the qualification of results are presented in Attachment A, Section V.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the metals data is regarded as acceptable.

2.4 Completeness

The completeness level attained for metal field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

2.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

3.0 WET CHEMISTRY

A total of 40 water samples were analyzed for hexavalent chromium by EPA Method 218.6; 31 water samples were analyzed for anions by EPA Method 300.0; 26 water samples were analyzed for chlorate by EPA Method 300.1B; 592 water samples were analyzed for perchlorate by EPA Method 314.0; 4 water samples were analyzed for phenolics by EPA Method 420.1, specific conductance by Standard Method 2510, TOC by Standard Method 5310C, and TOX by EPA SW-846 Method 9020B; 2 water samples were analyzed for ammonia as nitrogen by EPA Method 350.1, nitrate/nitrite as nitrogen by EPA Method 353.2, and TIN by Calculation Method; 587 water samples were analyzed for TDS by Standard Method 2540C; and 407 water samples were analyzed for pH by Standard Method 4500 H+B. All wet chemistry data were assessed to be valid with the exception of two of the 1,713 total results which were rejected based on holding time exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

3.1 Precision and Accuracy

3.1.1 Instrument Calibration

As previously discussed in Section 2.1.1, initial and continuing calibration results provide a means of evaluating accuracy.

Instrument calibrations were evaluated for all wet chemistry methods. The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995 and the %Rs in the continuing calibration verifications met the acceptance criteria of 90-110%.

3.1.2 Surrogate

Surrogates were evaluated for chlorate analysis by EPA Method 300.1B. All surrogate %Rs met the acceptance criteria as stated in the QAPP.

3.1.3 MS/MSD Samples

MS/MSD samples were evaluated for hexavalent chromium analysis by EPA Method 218.6, anions by EPA Method 300.0, chlorate by EPA Method 300.1B, perchlorate by EPA Method 314.0, ammonia as nitrogen by EPA Method 350.1, and phenolics by EPA Method 420.1. Due to high MS/MSD %Rs outside of acceptance criteria as stated in the QAPP, the perchlorate results in samples PC-82 (sampled on 5/6/15) and PC-134A (sampled on 5/7/15) were qualified as detected estimated (J+). The details regarding the qualification of results are presented in Attachment B, Section VII.

3.1.4 DUP Samples

DUP samples were evaluated for specific conductance analysis by Standard Method 2510, TDS by Standard Method 2540C, and pH by Standard Method 4500 H+B. All DUP RPDs met the acceptance criteria as stated in the QAPP.

3.1.5 LCS Samples

LCS samples were evaluated for all wet chemistry methods. All LCS %Rs met the acceptance criteria as stated in the QAPP.

3.1.6 FD Samples

FD samples were evaluated for hexavalent chromium by EPA Method 218.6, anions by EPA Method 300.0, chlorate by EPA Method 300.1B, perchlorate by EPA Method 314.0, TDS by Standard Method 2540C, and pH by Standard Method 4500 H+B. The field duplicate samples were evaluated for acceptable precision with RPDs or difference in instances the results were less than five times the reporting limit for the compounds. The nitrate as nitrogen results were qualified as detected estimated (J) due to difference outside of acceptance criteria in field duplicate pair M-12A and DUP-7 (both sampled on 6/5/15). The details regarding the qualification of results are presented in Attachment B, Section X.

3.1.7 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

In instances where data exceeded the calibration range and was subsequently diluted, the data was qualified as not reportable by the validators in order to yield only one complete set of data for a given sample. The details regarding the qualification of results are presented in Attachment B, Section XII.

3.2 Representativeness

3.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with all wet chemistry methods was conducted. All water samples met the 48-hour analysis holding time criteria for nitrate as nitrogen and nitrite as nitrogen, the 7-day analysis holding time criteria for TDS, and the 28-day analysis holding time criteria for ammonia as nitrogen, chlorate, chloride, sulfate, phenolics, specific conductance, TOC, TOX, and perchlorate.

Due to a severe holding time criteria exceedance (>2X holding time criteria), the hexavalent chromium result for samples EB-4 and FB-1 (both sampled on 5/8/15) were qualified as rejected (R). Additionally, 177 results for hexavalent chromium and pH were qualified as detected estimated (J-/J) or non-detected estimated (UJ). The analysis holding time criteria for water samples is 24 hours for hexavalent chromium and 48 hours for pH. The details regarding the qualification of results are presented in Attachment B, Section I.

3.2.2 Blanks

As previously discussed in Section 2.2.2, method blanks, ICB/CCBs, EBs, and FBs were analyzed to evaluate representativeness.

3.2.2.1 Method and Calibration Blanks

No data were qualified due to contaminants detected in the method or calibration blanks for this analysis.

3.2.2.2 EBs and FBs

Twenty three perchlorate and TDS results were qualified as detected estimated (J+) due to contaminants detected in the equipment blanks. No contaminants were detected in the field blanks for this analysis. The details regarding the qualification of results are presented in Attachment B, Section V.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

3.4 Completeness

The completeness level attained for wet chemistry field samples was 99.9 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

4.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No systematic variances in analytical performance were noted in the laboratory case narratives.

5.0 SUMMARY OF PARCCS CRITERIA

The validation reports present the PARCCS results for all SDGs. Each PARCCS criterion is discussed in detail in the following sections.

5.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as calibration, surrogates, MS/MSD, DUP, LCS/LCSD, and field duplicates. The precision and accuracy of the data set were considered acceptable after integration of result qualification.

All calibrations were performed as required and met the acceptance criteria. All surrogate, MS/MSD, DUP, LCS, and field duplicate percent recoveries, RPDs, and difference met acceptance criteria with the exceptions noted in Sections 2.1.2, 3.1.3, and 3.1.6. All ICP interference check sample %Rs met acceptance criteria.

5.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable after integration of result qualification.

5.3 Comparability

Sampling frequency requirements were met in obtaining necessary equipment blanks, field blanks and field duplicates. The laboratory used standard analytical methods for the analyses. The analytical results were reported in correct standard units. Sample integrity criteria were met. Sample preservation and holding times were within QC criteria with the exceptions noted in Section 3.2.1. The overall comparability is considered acceptable after integration of result qualification.

5.4 Completeness

Of the 2,119 total analytes reported, two sample results were rejected. The completeness for the SDGs is as follows:

Parameter	Total Analytes	No. of Rejects	% Completeness
Metals	406	0	100
Wet Chemistry	1,713	2	99.9
Total	**2,119**	**2**	**99.9**

The completeness percentage based on rejected data met the 90 percent DQO goal.

5.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations and PQLs met the project requirements and low level contamination in the method blanks, calibration blanks, equipment blanks, and field blanks did not affect sensitivity.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the water sample laboratory analytical results generated during the Annual Remedial Performance Sampling at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada established that the overall project requirements and completeness levels were met. The sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B and Stage 4 data validation all other results are considered valid and usable for all purposes.

7.0 REFERENCES

NDEP 2009. Data Verification and Validation Requirements - Supplement established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada. April 13.

NDEP 2012. Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas. January 5.

Basic Remediation Company (BRC), 2009. Standard Operating Procedures, SOP-40 Data Review/Validation. Revision 4. May.

Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada (QAPP), Revision. May 2009.

Region 9 Superfund Data Evaluation/Validation Guidance, R6QA/006.1, Draft. December 2001.

USEPA 2004. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. October.

____.1983. EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Cincinnati, Ohio. March.

____.1996. EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007.

(Eaton et al., 1998) *Standard Method for the Examination of Water and Wastewater* (20th ed.). Washington, DC: American Public Health Association.

TABLE I

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-100474-1	ART-1	440-100474-1	Water	20150202		Stage 2B		X					X	
440-100474-1	ART-1DUP	440-100474-1DUP	Water	20150202	DUP	Stage 2B								
440-100474-1	ART-1MS	440-100474-1MS	Water	20150202	MS	Stage 2B		X						
440-100474-1	ART-1MSD	440-100474-1MSD	Water	20150202	MSD	Stage 2B		X						
440-100474-1	ART-2	440-100474-2	Water	20150202		Stage 2B		X					X	
440-100474-1	ART-3	440-100474-3	Water	20150202		Stage 2B		X					X	
440-100474-1	ART-4	440-100474-4	Water	20150202		Stage 2B		X					X	
440-100474-1	ART-6	440-100474-5	Water	20150202		Stage 2B		X					X	
440-100474-1	ART-7B	440-100474-6	Water	20150202		Stage 2B		X					X	
440-100474-1	ART-8	440-100474-7	Water	20150202		Stage 2B		X					X	
440-100474-1	ART-9	440-100474-8	Water	20150202		Stage 2B		X					X	
440-100474-1	PC-99R2/R3	440-100474-9	Water	20150202		Stage 2B		X					X	
440-100474-1	PC-115R	440-100474-10	Water	20150202		Stage 2B		X					X	
440-100474-1	PC-115RDUP	440-100474-10DUP	Water	20150202	DUP	Stage 2B								
440-100474-1	PC-116R	440-100474-11	Water	20150202		Stage 2B		X					X	
440-100474-1	PC-116RDUP	440-100474-11DUP	Water	20150202	DUP	Stage 2B								
440-100474-1	PC-116RMS	440-100474-11MS	Water	20150202	MS	Stage 2B		X						
440-100474-1	PC-116RMSD	440-100474-11MSD	Water	20150202	MSD	Stage 2B		X						
440-100474-1	PC-117	440-100474-12	Water	20150202		Stage 2B		X					X	
440-100474-1	PC-118	440-100474-13	Water	20150202		Stage 2B		X					X	
440-100474-1	PC-119	440-100474-14	Water	20150202		Stage 2B		X					X	
440-100474-1	PC-120	440-100474-15	Water	20150202		Stage 2B		X					X	
440-100474-1	PC-121	440-100474-16	Water	20150202		Stage 2B		X					X	
440-100474-1	PC-133	440-100474-17	Water	20150202		Stage 2B		X					X	
440-100474-1	PC-150	440-100474-18	Water	20150202		Stage 2B		X					X	
440-101558-1	PC-58	440-101558-1	Water	20150210		Stage 2B		X					X	
440-101558-1	PC-58DUP	440-101558-1DUP	Water	20150210	DUP	Stage 2B								
440-101558-1	PC-56	440-101558-2	Water	20150210		Stage 2B		X					X	
440-101558-1	PC-60	440-101558-3	Water	20150210		Stage 2B		X					X	
440-101558-1	PC-59	440-101558-4	Water	20150210		Stage 2B		X					X	
440-101558-1	PC-90	440-101558-5	Water	20150211		Stage 2B		X					X	
440-101558-1	PC-90DUP	440-101558-5DUP	Water	20150211	DUP	Stage 2B								
440-101558-1	PC-91	440-101558-6	Water	20150211		Stage 2B		X					X	
440-101558-1	PC-94	440-101558-7	Water	20150211		Stage 2B		X					X	
440-101558-1	PC-62	440-101558-8	Water	20150211		Stage 2B		X					X	
440-101558-1	PC-62DUP	440-101558-8DUP	Water	20150211	DUP	Stage 2B								

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SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-101558-1	PC-62MS	440-101558-8MS	Water	20150211	MS	Stage 2B		X						
440-101558-1	PC-62MSD	440-101558-8MSD	Water	20150211	MSD	Stage 2B		X						
440-101558-1	PC-68	440-101558-9	Water	20150211		Stage 2B		X					X	
440-101558-1	PC-86	440-101558-10	Water	20150211		Stage 2B		X					X	
440-101558-1	ARP-1	440-101558-11	Water	20150211		Stage 2B		X					X	
440-101655-1	PC-97	440-101655-1	Water	20150212		Stage 4		X					X	
440-101655-1	ARP-3A	440-101655-2	Water	20150212		Stage 4		X					X	
440-101655-1	PC-144	440-101655-3	Water	20150212		Stage 4		X					X	
440-101655-1	PC-101R	440-101655-4	Water	20150212		Stage 4		X					X	
440-101655-1	PC-101RDUP	440-101655-4DUP	Water	20150212	DUP	Stage 4								
440-101655-1	MW-K4	440-101655-5	Water	20150212		Stage 4		X					X	
440-101655-1	ARP-4A	440-101655-6	Water	20150212		Stage 4		X					X	
440-101655-1	ARP-5A	440-101655-7	Water	20150212		Stage 4		X					X	
440-101655-1	ARP-6B	440-101655-8	Water	20150212		Stage 4		X					X	
440-101655-1	ARP-6BDUP	440-101655-8DUP	Water	20150212	DUP	Stage 4								
440-101655-1	ARP-7	440-101655-9	Water	20150212		Stage 4		X					X	
440-101655-1	PC-53	440-101655-10	Water	20150212		Stage 4		X					X	
440-101655-1	PC-53MS	440-101655-10MS	Water	20150212	MS	Stage 4		X						
440-101655-1	PC-53MSD	440-101655-10MSD	Water	20150212	MSD	Stage 4		X						
440-101655-1	MW-K5	440-101655-11	Water	20150212		Stage 4		X					X	
440-101929-1	M-83	440-101929-1	Water	20150213		Stage 2B		X					X	
440-101929-1	M-83DUP	440-101929-1DUP	Water	20150213	DUP	Stage 2B								
440-101929-1	M-83MS	440-101929-1MS	Water	20150213	MS	Stage 2B		X						
440-101929-1	M-83MSD	440-101929-1MSD	Water	20150213	MSD	Stage 2B		X						
440-101929-1	ART-7A	440-101929-2	Water	20150213		Stage 2B		X					X	
440-101929-1	ART-7AMS	440-101929-2MS	Water	20150213	MS	Stage 2B		X						
440-101929-1	ART-7AMSD	440-101929-2MSD	Water	20150213	MSD	Stage 2B		X						
440-101929-1	PC-122	440-101929-3	Water	20150213		Stage 2B		X					X	
440-101929-1	ARP-2A	440-101929-4	Water	20150213		Stage 2B		X					X	
440-101929-1	PC-18	440-101929-5	Water	20150213		Stage 2B		X					X	
440-101929-1	PC-55	440-101929-6	Water	20150213		Stage 2B		X					X	
440-101929-1	MEB-1	440-101929-7	Water	20150213	EB	Stage 2B							X	
440-102243-1	PC-103	440-102243-1	Water	20150218		Stage 2B		X					X	
440-102243-1	PC-103DUP	440-102243-1DUP	Water	20150218	DUP	Stage 2B								
440-102243-1	PC-103MS	440-102243-1MS	Water	20150218	MS	Stage 2B		X						
440-102243-1	PC-103MSD	440-102243-1MSD	Water	20150218	MSD	Stage 2B		X						

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440-102243-1	PC-98R	440-102243-2	Water	20150218		Stage 2B		X					X	
440-102526-1	I-O	440-102526-1	Water	20150223		Stage 2B		X					X	
440-102526-1	I-ODUP	440-102526-1DUP	Water	20150223	DUP	Stage 2B								
440-102526-1	I-OMS	440-102526-1MS	Water	20150223	MS	Stage 2B		X						
440-102526-1	I-OMSD	440-102526-1MSD	Water	20150223	MSD	Stage 2B		X						
440-102526-1	I-W	440-102526-2	Water	20150223		Stage 2B		X					X	
440-102526-1	I-P	440-102526-3	Water	20150223		Stage 2B		X					X	
440-102526-1	I-H	440-102526-4	Water	20150223		Stage 2B		X					X	
440-102526-1	I-U	440-102526-5	Water	20150223		Stage 2B		X					X	
440-102526-1	I-T	440-102526-6	Water	20150223		Stage 2B		X					X	
440-102526-1	I-G	440-102526-7	Water	20150223		Stage 2B		X					X	
440-102526-1	I-Q	440-102526-8	Water	20150223		Stage 2B		X					X	
440-102526-1	I-F	440-102526-9	Water	20150223		Stage 2B		X					X	
440-102526-1	I-X	440-102526-10	Water	20150223		Stage 2B		X					X	
440-102526-1	I-N	440-102526-11	Water	20150223		Stage 2B		X					X	
440-102526-1	I-NDUP	440-102526-11DUP	Water	20150223	DUP	Stage 2B								
440-102526-1	I-NMS	440-102526-11MS	Water	20150223	MS	Stage 2B		X						
440-102526-1	I-NMSD	440-102526-11MSD	Water	20150223	MSD	Stage 2B		X						
440-102526-1	I-E	440-102526-12	Water	20150223		Stage 2B		X					X	
440-102526-1	I-M	440-102526-13	Water	20150223		Stage 2B		X					X	
440-102526-1	I-D	440-102526-14	Water	20150223		Stage 2B		X					X	
440-102526-1	I-C	440-102526-15	Water	20150223		Stage 2B		X					X	
440-102526-1	I-S	440-102526-16	Water	20150223		Stage 2B		X					X	
440-102526-1	I-L	440-102526-17	Water	20150223		Stage 2B		X					X	
440-102526-1	I-Y	440-102526-18	Water	20150223		Stage 2B		X					X	
440-102526-1	I-YDUP	440-102526-18DUP	Water	20150223	DUP	Stage 2B								
440-102526-1	I-R	440-102526-19	Water	20150223		Stage 2B		X					X	
440-102526-1	I-B	440-102526-20	Water	20150223		Stage 2B		X					X	
440-102526-1	I-AB	440-102526-21	Water	20150223		Stage 2B		X					X	
440-102526-1	I-AA	440-102526-22	Water	20150223		Stage 2B		X					X	
440-102526-1	I-AR	440-102526-23	Water	20150223		Stage 2B		X					X	
440-102689-1	PC-123	440-102689-1	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-123DUP	440-102689-1DUP	Water	20150224	DUP	Stage 2B								
440-102689-1	PC-128	440-102689-2	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-129	440-102689-3	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-130	440-102689-4	Water	20150224		Stage 2B		X					X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-102689-1	PC-131	440-102689-5	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-132	440-102689-6	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-124	440-102689-7	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-125	440-102689-8	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-126	440-102689-9	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-127	440-102689-10	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-127DUP	440-102689-10DUP	Water	20150224	DUP	Stage 2B								
440-102689-1	PC-127MS	440-102689-10MS	Water	20150224	MS	Stage 2B		X						
440-102689-1	PC-127MSD	440-102689-10MSD	Water	20150224	MSD	Stage 2B		X						
440-102689-1	PC-54	440-102689-11	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-54DUP	440-102689-11DUP	Water	20150224	DUP	Stage 2B								
440-102689-1	M-48A	440-102689-12	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-37	440-102689-13	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-73	440-102689-14	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-72	440-102689-15	Water	20150224		Stage 2B		X					X	
440-102689-1	PC-71	440-102689-16	Water	20150224		Stage 2B		X					X	
440-102689-1	M-44	440-102689-17	Water	20150224	FD1	Stage 2B		X	X				X	
440-102689-1	M-44MS	440-102689-17MS	Water	20150224	MS	Stage 2B		X						
440-102689-1	M-44MSD	440-102689-17MSD	Water	20150224	MSD	Stage 2B		X						
440-102689-1	M-95	440-102689-18	Water	20150224		Stage 2B		X	X				X	
440-102689-1	M-23	440-102689-19	Water	20150224		Stage 2B		X					X	
440-102689-1	DUP-1	440-102689-20	Water	20150224	FD1	Stage 2B		X	X				X	
440-102689-1	FB-1	440-102689-21	Water	20150224	FB	Stage 2B		X	X				X	
440-102831-1	M-57A	440-102831-1	Water	20150225		Stage 2B		X					X	
440-102831-1	M-57AMS	440-102831-1MS	Water	20150225	MS	Stage 2B		X						
440-102831-1	M-57AMSD	440-102831-1MSD	Water	20150225	MSD	Stage 2B		X						
440-102831-1	M-69	440-102831-2	Water	20150225		Stage 2B		X					X	
440-102831-1	M-64	440-102831-3	Water	20150225		Stage 2B		X					X	
440-102831-1	M-64DUP	440-102831-3DUP	Water	20150225	DUP	Stage 2B								
440-102831-1	M-65	440-102831-4	Water	20150225		Stage 2B		X					X	
440-102831-1	M-66	440-102831-5	Water	20150225		Stage 2B		X					X	
440-102831-1	M-79	440-102831-6	Water	20150225		Stage 2B		X					X	
440-102831-1	M-79DUP	440-102831-6DUP	Water	20150225	DUP	Stage 2B								
440-102831-1	M-70	440-102831-7	Water	20150225		Stage 2B		X					X	
440-102831-1	M-71	440-102831-8	Water	20150225		Stage 2B		X					X	
440-102831-1	M-72	440-102831-9	Water	20150225		Stage 2B		X					X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-102831-1	M-14A	440-102831-10	Water	20150225		Stage 2B		X					X	
440-102831-1	M-14AMS	440-102831-10MS	Water	20150225	MS	Stage 2B		X						
440-102831-1	M-14AMSD	440-102831-10MSD	Water	20150225	MSD	Stage 2B		X						
440-102831-1	PC-135A	440-102831-11	Water	20150225		Stage 2B		X					X	
440-102831-1	PC-136	440-102831-12	Water	20150225		Stage 2B		X					X	
440-102831-1	EB-1	440-102831-13	Water	20150225	EB	Stage 2B		X	X				X	
440-102831-1	EB-1MS	440-102831-13MS	Water	20150225	MS	Stage 2B			X					
440-102831-1	EB-1MSD	440-102831-13MSD	Water	20150225	MSD	Stage 2B			X					
440-102951-1	M-99	440-102951-1	Water	20150226		Stage 2B		X					X	
440-102951-1	M-99DUP	440-102951-1DUP	Water	20150226	DUP	Stage 2B								
440-102951-1	M-31A	440-102951-2	Water	20150226		Stage 2B		X					X	
440-102951-1	M-52	440-102951-3	Water	20150226		Stage 2B		X					X	
440-102951-1	M-35	440-102951-4	Water	20150226		Stage 2B		X					X	
440-102951-1	M-35MS	440-102951-4MS	Water	20150226	MS	Stage 2B		X						
440-102951-1	M-35MSD	440-102951-4MSD	Water	20150226	MSD	Stage 2B		X						
440-102951-1	M-19	440-102951-5	Water	20150226		Stage 2B		X					X	
440-102951-1	M-68	440-102951-6	Water	20150226	FD2	Stage 2B		X					X	
440-102951-1	M-74	440-102951-7	Water	20150226		Stage 2B		X					X	
440-102951-1	M-73	440-102951-8	Water	20150226		Stage 2B		X					X	
440-102951-1	M-67	440-102951-9	Water	20150226		Stage 2B		X					X	
440-102951-1	M-81A	440-102951-10	Water	20150226	FD3	Stage 2B		X					X	
440-102951-1	M-81ADUP	440-102951-10DUP	Water	20150226	DUP	Stage 2B								
440-102951-1	M-80	440-102951-11	Water	20150226		Stage 2B		X					X	
440-102951-1	M-80DUP	440-102951-11DUP	Water	20150226	DUP	Stage 2B								
440-102951-1	M-80MS	440-102951-11MS	Water	20150226	MS	Stage 2B		X						
440-102951-1	M-80MSD	440-102951-11MSD	Water	20150226	MSD	Stage 2B		X						
440-102951-1	DUP-2	440-102951-12	Water	20150226	FD2	Stage 2B		X					X	
440-102951-1	I-AD	440-102951-13	Water	20150226		Stage 2B		X					X	
440-102951-1	I-AC	440-102951-14	Water	20150226		Stage 2B		X					X	
440-102951-1	I-K	440-102951-15	Water	20150226		Stage 2B		X					X	
440-102951-1	I-Z	440-102951-16	Water	20150226		Stage 2B		X					X	
440-102951-1	I-I	440-102951-17	Water	20150226		Stage 2B		X					X	
440-102951-1	I-V	440-102951-18	Water	20150226		Stage 2B		X					X	
440-102951-1	DUP-4	440-102951-19	Water	20150226	FD3	Stage 2B		X					X	
440-102951-1	EB-2	440-102951-20	Water	20150226	EB	Stage 2B		X	X				X	
440-102951-1	M-12A	440-102951-21	Water	20150226		Stage 2B		X	X				X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-102951-1	M-12AMS	440-102951-21MS	Water	20150226	MS	Stage 2B		X						
440-102951-1	M-12AMSD	440-102951-21MSD	Water	20150226	MSD	Stage 2B		X						
440-102951-1	M-11	440-102951-22	Water	20150226		Stage 2B		X	X				X	
440-103031-1	I-J	440-103031-1	Water	20150227		Stage 2B		X					X	
440-103031-1	I-JDUP	440-103031-1DUP	Water	20150227	DUP	Stage 2B								
440-103031-1	I-JMS	440-103031-1MS	Water	20150227	MS	Stage 2B		X						
440-103031-1	I-JMSD	440-103031-1MSD	Water	20150227	MSD	Stage 2B		X						
440-103031-1	PC-148	440-103031-2	Water	20150227		Stage 2B		X					X	
440-103031-1	PC-149	440-103031-3	Water	20150227		Stage 2B		X					X	
440-103031-1	M-135	440-103031-4	Water	20150227		Stage 2B		X					X	
440-103031-1	M-131	440-103031-5	Water	20150227		Stage 2B		X					X	
440-103031-1	M-25	440-103031-6	Water	20150227		Stage 2B		X					X	
440-103031-1	M-25DUP	440-103031-6DUP	Water	20150227	DUP	Stage 2B								
440-103031-1	M-22A	440-103031-7	Water	20150227		Stage 2B		X					X	
440-103031-1	M-38	440-103031-8	Water	20150227		Stage 2B		X	X				X	
440-103031-1	M-37	440-103031-9	Water	20150227	FD4	Stage 2B		X	X				X	
440-103031-1	DUP-3	440-103031-10	Water	20150227	FD4	Stage 2B		X	X				X	
440-103031-1	DUP-3DUP	440-103031-10DUP	Water	20150227	DUP	Stage 2B								
440-103031-1	DUP-3MS	440-103031-10MS	Water	20150227	MS	Stage 2B			X					
440-103031-1	DUP-3MSD	440-103031-10MSD	Water	20150227	MSD	Stage 2B			X					
440-103261-1	ART-1	440-103261-1	Water	20150303		Stage 2B							X	
440-103261-1	ART-1DUP	440-103261-1DUP	Water	20150303	DUP	Stage 2B								
440-103261-1	ART-2	440-103261-2	Water	20150303		Stage 2B							X	
440-103261-1	ART-3	440-103261-3	Water	20150303		Stage 2B							X	
440-103261-1	ART-4	440-103261-4	Water	20150303		Stage 2B							X	
440-103261-1	ART-6	440-103261-5	Water	20150303		Stage 2B							X	
440-103261-1	ART-7B	440-103261-6	Water	20150303		Stage 2B							X	
440-103261-1	ART-8	440-103261-7	Water	20150303		Stage 2B							X	
440-103261-1	ART-9	440-103261-8	Water	20150303		Stage 2B							X	
440-103261-1	PC-99R2/R3	440-103261-9	Water	20150303		Stage 2B							X	
440-103261-1	PC-115R	440-103261-10	Water	20150303		Stage 2B							X	
440-103261-1	PC-116R	440-103261-11	Water	20150303		Stage 2B							X	
440-103261-1	PC-116RDUP	440-103261-11DUP	Water	20150303	DUP	Stage 2B								
440-103261-1	PC-117	440-103261-12	Water	20150303		Stage 2B							X	
440-103261-1	PC-118	440-103261-13	Water	20150303		Stage 2B							X	
440-103261-1	PC-119	440-103261-14	Water	20150303		Stage 2B							X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-103261-1	PC-120	440-103261-15	Water	20150303		Stage 2B							X	
440-103261-1	PC-121	440-103261-16	Water	20150303		Stage 2B							X	
440-103261-1	PC-133	440-103261-17	Water	20150303		Stage 2B							X	
440-103261-1	PC-150	440-103261-18	Water	20150303		Stage 2B							X	
440-103265-1	M-10	440-103265-1	Water	20150303		Stage 2B	X		X	X	X	X	X	X
440-103265-1	M-10MS	440-103265-1MS	Water	20150303	MS	Stage 2B	X		X					
440-103265-1	M-10MSD	440-103265-1MSD	Water	20150303	MSD	Stage 2B	X		X					
440-103983-1	PC-97	440-103983-1	Water	20150309		Stage 2B							X	
440-103983-1	PC-97DUP	440-103983-1DUP	Water	20150309	DUP	Stage 2B								
440-103983-1	PC-90	440-103983-2	Water	20150309		Stage 2B							X	
440-103983-1	PC-91	440-103983-3	Water	20150309		Stage 2B							X	
440-103983-1	PC-58	440-103983-4	Water	20150309		Stage 2B							X	
440-103983-1	PC-56	440-103983-5	Water	20150309		Stage 2B							X	
440-103983-1	PC-60	440-103983-6	Water	20150309		Stage 2B							X	
440-103983-1	PC-59	440-103983-7	Water	20150309		Stage 2B							X	
440-103983-1	PC-62	440-103983-8	Water	20150309		Stage 2B							X	
440-104247-1	PC-55	440-104247-1	Water	20150311		Stage 4							X	
440-104247-1	PC-55DUP	440-104247-1DUP	Water	20150311	DUP	Stage 4								
440-104247-1	PC-68	440-104247-2	Water	20150311		Stage 4							X	
440-104247-1	PC-86	440-104247-3	Water	20150311		Stage 4							X	
440-104247-1	PC-18	440-104247-4	Water	20150311		Stage 4							X	
440-104247-1	ARP-1	440-104247-5	Water	20150311		Stage 4							X	
440-104247-1	M-83	440-104247-6	Water	20150311		Stage 4							X	
440-104247-1	PC-103	440-104247-7	Water	20150311		Stage 4							X	
440-104247-1	PC-98R	440-104247-8	Water	20150311		Stage 4							X	
440-104247-1	ARP-2A	440-104247-9	Water	20150311		Stage 4							X	
440-104247-1	ARP-3A	440-104247-10	Water	20150311		Stage 4							X	
440-104247-1	MW-K4	440-104247-11	Water	20150311		Stage 4							X	
440-104247-1	MW-K4DUP	440-104247-11DUP	Water	20150311	DUP	Stage 4								
440-104247-1	ARP-4A	440-104247-12	Water	20150311		Stage 4							X	
440-104247-1	ARP-5A	440-104247-13	Water	20150311		Stage 4							X	
440-104247-1	ARP-6B	440-104247-14	Water	20150311		Stage 4							X	
440-104381-1	PC-101R	440-104381-1	Water	20150312		Stage 2B							X	
440-104381-1	ARP-7	440-104381-2	Water	20150312		Stage 2B							X	
440-104381-1	PC-53	440-104381-3	Water	20150312		Stage 2B							X	
440-104381-1	MW-K5	440-104381-4	Water	20150312		Stage 2B							X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-104381-1	PC-122	440-104381-5	Water	20150312		Stage 2B							X	
440-104381-1	MEB-1	440-104381-6	Water	20150312	EB	Stage 2B							X	
440-106313-1	PC-118	440-106313-1	Water	20150406		Stage 2B							X	
440-106313-1	PC-118DUP	440-106313-1DUP	Water	20150406	DUP	Stage 2B								
440-106313-1	PC-119	440-106313-2	Water	20150406		Stage 2B							X	
440-106313-1	PC-120	440-106313-3	Water	20150406		Stage 2B							X	
440-106313-1	PC-121	440-106313-4	Water	20150406		Stage 2B							X	
440-106313-1	PC-133	440-106313-5	Water	20150406		Stage 2B							X	
440-106313-1	PC-150	440-106313-6	Water	20150406		Stage 2B							X	
440-106482-1	ART-1	440-106482-1	Water	20150406		Stage 2B							X	
440-106482-1	ART-1DUP	440-106482-1DUP	Water	20150406	DUP	Stage 2B								
440-106482-1	ART-2	440-106482-2	Water	20150406		Stage 2B							X	
440-106482-1	ART-3	440-106482-3	Water	20150406		Stage 2B							X	
440-106482-1	ART-4	440-106482-4	Water	20150406		Stage 2B							X	
440-106482-1	ART-6	440-106482-5	Water	20150406		Stage 2B							X	
440-106482-1	ART-7B	440-106482-6	Water	20150406		Stage 2B							X	
440-106482-1	ART-8	440-106482-7	Water	20150406		Stage 2B							X	
440-106482-1	ART-9	440-106482-8	Water	20150406		Stage 2B							X	
440-106482-1	PC-99R2/R3	440-106482-9	Water	20150406		Stage 2B							X	
440-106482-1	PC-115R	440-106482-10	Water	20150406		Stage 2B							X	
440-106482-1	PC-116R	440-106482-11	Water	20150406		Stage 2B							X	
440-106482-1	PC-116RDUP	440-106482-11DUP	Water	20150406	DUP	Stage 2B								
440-106482-1	PC-117	440-106482-12	Water	20150406		Stage 2B							X	
440-107316-1	M-83	440-107316-1	Water	20150416		Stage 2B							X	
440-107316-1	PC-97	440-107316-2	Water	20150416		Stage 2B							X	
440-107316-1	PC-90	440-107316-3	Water	20150416		Stage 2B							X	
440-107316-1	PC-91	440-107316-4	Water	20150416		Stage 2B							X	
440-107316-1	PC-58	440-107316-5	Water	20150416		Stage 2B							X	
440-107316-1	PC-56	440-107316-6	Water	20150416		Stage 2B							X	
440-107316-1	PC-60	440-107316-7	Water	20150416		Stage 2B							X	
440-107316-1	PC-59	440-107316-8	Water	20150416		Stage 2B							X	
440-107316-1	PC-62	440-107316-9	Water	20150416		Stage 2B							X	
440-107316-1	PC-68	440-107316-10	Water	20150416		Stage 2B							X	
440-107316-1	PC-86	440-107316-11	Water	20150416		Stage 2B							X	
440-107507-1	PC-18	440-107507-1	Water	20150417		Stage 2B							X	
440-107507-1	PC-18DUP	440-107507-1DUP	Water	20150417	DUP	Stage 2B								

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-107507-1	PC-55	440-107507-2	Water	20150417		Stage 2B							X	
440-107507-1	ARP-1	440-107507-3	Water	20150417		Stage 2B							X	
440-107507-1	PC-122	440-107507-4	Water	20150417		Stage 2B							X	
440-107507-1	PC-53	440-107507-5	Water	20150417		Stage 2B							X	
440-107507-1	MW-K5	440-107507-6	Water	20150417		Stage 2B							X	
440-107507-1	ARP-7	440-107507-7	Water	20150417		Stage 2B							X	
440-107507-1	ARP-6B	440-107507-8	Water	20150417		Stage 2B							X	
440-107507-1	ARP-5A	440-107507-9	Water	20150417		Stage 2B							X	
440-107507-1	MEB-1	440-107507-10	Water	20150417	EB	Stage 2B							X	
440-107507-1	ARP-4A	440-107507-11	Water	20150417		Stage 2B							X	
440-107831-1	PC-103	440-107831-1	Water	20150421		Stage 2B							X	
440-107831-1	PC-98R	440-107831-2	Water	20150421		Stage 2B							X	
440-107831-1	ARP-2A	440-107831-3	Water	20150421		Stage 2B							X	
440-107831-1	ARP-3A	440-107831-4	Water	20150421		Stage 2B							X	
440-107831-1	MW-K4	440-107831-5	Water	20150421		Stage 2B							X	
440-107831-1	PC-101R	440-107831-6	Water	20150421		Stage 2B							X	
440-108677-1	ART-1	440-108677-1	Water	20150504		Stage 2B		X					X	
440-108677-1	ART-1DUP	440-108677-1DUP	Water	20150504	DUP	Stage 2B								
440-108677-1	ART-2	440-108677-2	Water	20150504		Stage 2B		X					X	
440-108677-1	ART-3	440-108677-3	Water	20150504		Stage 2B		X					X	
440-108677-1	ART-4	440-108677-4	Water	20150504		Stage 2B		X					X	
440-108677-1	ART-4MS	440-108677-4MS	Water	20150504	MS	Stage 2B		X						
440-108677-1	ART-4MSD	440-108677-4MSD	Water	20150504	MSD	Stage 2B		X						
440-108677-1	ART-6	440-108677-5	Water	20150504		Stage 2B		X					X	
440-108677-1	ART-7A	440-108677-6	Water	20150504		Stage 2B		X					X	
440-108677-1	ART-8	440-108677-7	Water	20150504		Stage 2B		X					X	
440-108677-1	ART-9	440-108677-8	Water	20150504		Stage 2B		X					X	
440-108677-1	PC-99R2/R3	440-108677-9	Water	20150504		Stage 2B		X					X	
440-108677-1	PC-115R	440-108677-10	Water	20150504		Stage 2B		X					X	
440-108677-1	PC-115RDUP	440-108677-10DUP	Water	20150504	DUP	Stage 2B								
440-108677-1	PC-116R	440-108677-11	Water	20150504		Stage 2B		X					X	
440-108677-1	PC-117	440-108677-12	Water	20150504		Stage 2B		X					X	
440-108677-1	PC-118	440-108677-13	Water	20150504		Stage 2B		X					X	
440-108677-1	PC-119	440-108677-14	Water	20150504		Stage 2B		X					X	
440-108677-1	PC-120	440-108677-15	Water	20150504		Stage 2B		X					X	
440-108677-1	PC-121	440-108677-16	Water	20150504		Stage 2B		X					X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-108677-1	PC-133	440-108677-17	Water	20150504		Stage 2B		X					X	
440-108677-1	PC-150	440-108677-18	Water	20150504		Stage 2B		X					X	
440-108677-1	ART-7B	440-108677-19	Water	20150504		Stage 2B		X					X	
440-108677-1	ART-7BMS	440-108677-19MS	Water	20150504	MS	Stage 2B		X						
440-108677-1	ART-7BMSD	440-108677-19MSD	Water	20150504	MSD	Stage 2B		X						
440-108680-1	I-O	440-108680-1	Water	20150504		Stage 2B		X					X	
440-108680-1	I-ODUP	440-108680-1DUP	Water	20150504	DUP	Stage 2B								
440-108680-1	I-W	440-108680-2	Water	20150504		Stage 2B		X					X	
440-108680-1	I-P	440-108680-3	Water	20150504		Stage 2B		X					X	
440-108680-1	I-H	440-108680-4	Water	20150504		Stage 2B		X					X	
440-108680-1	I-U	440-108680-5	Water	20150504		Stage 2B		X					X	
440-108680-1	I-T	440-108680-6	Water	20150504		Stage 2B		X					X	
440-108680-1	I-TDUP	440-108680-6DUP	Water	20150504	DUP	Stage 2B								
440-108680-1	I-G	440-108680-7	Water	20150504		Stage 2B		X					X	
440-108680-1	I-Q	440-108680-8	Water	20150504		Stage 2B		X					X	
440-108680-1	I-F	440-108680-9	Water	20150504		Stage 2B		X					X	
440-108680-1	I-X	440-108680-10	Water	20150504		Stage 2B		X					X	
440-108680-1	I-XDUP	440-108680-10DUP	Water	20150504	DUP	Stage 2B								
440-108680-1	I-XMS	440-108680-10MS	Water	20150504	MS	Stage 2B		X						
440-108680-1	I-XMSD	440-108680-10MSD	Water	20150504	MSD	Stage 2B		X						
440-108680-1	I-N	440-108680-11	Water	20150504		Stage 2B		X					X	
440-108680-1	I-E	440-108680-12	Water	20150504		Stage 2B		X					X	
440-108680-1	I-M	440-108680-13	Water	20150504		Stage 2B		X					X	
440-108680-1	I-D	440-108680-14	Water	20150504		Stage 2B		X					X	
440-108680-1	I-C	440-108680-15	Water	20150504		Stage 2B		X					X	
440-108680-1	I-S	440-108680-16	Water	20150504		Stage 2B		X					X	
440-108680-1	I-SDUP	440-108680-16DUP	Water	20150504	DUP	Stage 2B								
440-108680-1	I-L	440-108680-17	Water	20150504		Stage 2B		X					X	
440-108680-1	I-Y	440-108680-18	Water	20150504		Stage 2B		X					X	
440-108680-1	I-R	440-108680-19	Water	20150504		Stage 2B		X					X	
440-108680-1	I-B	440-108680-20	Water	20150504		Stage 2B		X					X	
440-108680-1	I-BMS	440-108680-20MS	Water	20150504	MS	Stage 2B		X						
440-108680-1	I-BMSD	440-108680-20MSD	Water	20150504	MSD	Stage 2B		X						
440-108680-1	I-AB	440-108680-21	Water	20150504		Stage 2B		X					X	
440-108680-1	I-ABDUP	440-108680-21DUP	Water	20150504	DUP	Stage 2B								
440-108680-1	I-AA	440-108680-22	Water	20150504		Stage 2B		X					X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-108680-1	I-AR	440-108680-23	Water	20150504		Stage 2B		X					X	
440-108808-1	PC-123	440-108808-1	Water	20150505		Stage 2B		X					X	
440-108808-1	PC-123DUP	440-108808-1DUP	Water	20150505	DUP	Stage 2B								
440-108808-1	PC-123MS	440-108808-1MS	Water	20150505	MS	Stage 2B		X						
440-108808-1	PC-123MSD	440-108808-1MSD	Water	20150505	MSD	Stage 2B		X						
440-108808-1	PC-128	440-108808-2	Water	20150505		Stage 2B		X		X		X	X	
440-108808-1	PC-129	440-108808-3	Water	20150505		Stage 2B		X					X	
440-108808-1	PC-130	440-108808-4	Water	20150505		Stage 2B		X		X		X	X	
440-108808-1	PC-50	440-108808-5	Water	20150505		Stage 2B		X					X	
440-108808-1	PC-132	440-108808-6	Water	20150505		Stage 2B		X		X		X	X	
440-108808-1	PC-124	440-108808-7	Water	20150505		Stage 2B		X		X		X	X	
440-108808-1	PC-124DUP	440-108808-7DUP	Water	20150505	DUP	Stage 2B								
440-108808-1	PC-125	440-108808-8	Water	20150505		Stage 2B		X					X	
440-108808-1	PC-126	440-108808-9	Water	20150505		Stage 2B		X		X		X	X	
440-108808-1	PC-24	440-108808-10	Water	20150505		Stage 2B		X					X	
440-108808-1	PC-127	440-108808-11	Water	20150505		Stage 2B		X					X	
440-108808-1	PC-127DUP	440-108808-11DUP	Water	20150505	DUP	Stage 2B								
440-108808-1	EB-1	440-108808-12	Water	20150505	EB	Stage 2B		X	X	X			X	
440-108808-1	PC-77	440-108808-13	Water	20150505		Stage 2B							X	
440-108808-1	PC-74	440-108808-14	Water	20150505		Stage 2B							X	
440-108808-1	PC-96	440-108808-15	Water	20150505		Stage 2B							X	
440-108986-1	PC-131	440-108986-1	Water	20150506		Stage 2B		X					X	
440-108986-1	PC-82	440-108986-2	Water	20150506		Stage 2B				X		X	X	
440-108986-1	PC-82MS	440-108986-2MS	Water	20150506	MS	Stage 2B							X	
440-108986-1	PC-82MSD	440-108986-2MSD	Water	20150506	MSD	Stage 2B							X	
440-108986-1	PC-79	440-108986-3	Water	20150506		Stage 2B		X					X	
440-108986-1	PC-110	440-108986-4	Water	20150506		Stage 2B							X	
440-108986-1	PC-108	440-108986-5	Water	20150506		Stage 2B							X	
440-108986-1	HM-2	440-108986-6	Water	20150506		Stage 2B							X	
440-108986-1	HMW-15	440-108986-7	Water	20150506		Stage 2B							X	
440-108986-1	HMW-15DUP	440-108986-7DUP	Water	20150506	DUP	Stage 2B								
440-108986-1	HMW-14	440-108986-8	Water	20150506		Stage 2B							X	
440-108986-1	EB-2	440-108986-9	Water	20150506	EB	Stage 2B		X	X				X	
440-108986-1	EB-2DUP	440-108986-9DUP	Water	20150506	DUP	Stage 2B								
440-109155-1	HMW-13	440-109155-1	Water	20150507		Stage 2B							X	
440-109155-1	HMW-13DUP	440-109155-1DUP	Water	20150507	DUP	Stage 2B								

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-109155-1	PC-134A	440-109155-2	Water	20150507		Stage 2B		X					X	
440-109155-1	PC-135A	440-109155-3	Water	20150507		Stage 2B		X					X	
440-109155-1	M-65	440-109155-4	Water	20150507		Stage 2B		X					X	
440-109155-1	EB-03	440-109155-5	Water	20150507	EB	Stage 2B		X	X				X	
440-109155-1	EB-03MS	440-109155-5MS	Water	20150507	MS	Stage 2B			X					
440-109155-1	EB-03MSD	440-109155-5MSD	Water	20150507	MSD	Stage 2B			X					
440-109318-1	M-140	440-109318-1	Water	20150508		Stage 2B		X					X	
440-109318-1	M-140DUP	440-109318-1DUP	Water	20150508	DUP	Stage 2B								
440-109318-1	M-64	440-109318-2	Water	20150508		Stage 2B		X					X	
440-109318-1	M-66	440-109318-3	Water	20150508	FD5	Stage 2B		X					X	
440-109318-1	M-79	440-109318-4	Water	20150508		Stage 2B		X					X	
440-109318-1	M-69	440-109318-5	Water	20150508		Stage 2B		X					X	
440-109318-1	M-136	440-109318-6	Water	20150508		Stage 2B		X					X	
440-109318-1	M-136MS	440-109318-6MS	Water	20150508	MS	Stage 2B		X						
440-109318-1	M-136MSD	440-109318-6MSD	Water	20150508	MSD	Stage 2B		X						
440-109318-1	M-135	440-109318-7	Water	20150508		Stage 2B		X					X	
440-109318-1	M-134	440-109318-8	Water	20150508		Stage 2B		X					X	
440-109318-1	M-131	440-109318-9	Water	20150508		Stage 2B		X					X	
440-109318-1	M-57A	440-109318-10	Water	20150508		Stage 2B		X					X	
440-109318-1	M-57ADUP	440-109318-10DUP	Water	20150508	DUP	Stage 2B								
440-109318-1	M-126	440-109318-11	Water	20150508		Stage 2B		X					X	
440-109318-1	DUP-1	440-109318-12	Water	20150508	FD5	Stage 2B		X					X	
440-109318-1	EB-4	440-109318-13	Water	20150508	EB	Stage 2B		X	X				X	
440-109318-1	FB-1	440-109318-14	Water	20150508	FB	Stage 2B		X	X				X	
440-109936-1	PC-97	440-109936-1	Water	20150514		Stage 4		X					X	
440-109936-1	PC-97DUP	440-109936-1DUP	Water	20150514	DUP	Stage 4								
440-109936-1	PC-90	440-109936-2	Water	20150514		Stage 4		X		X		X	X	
440-109936-1	PC-91	440-109936-3	Water	20150514		Stage 4		X		X		X	X	
440-109936-1	PC-92	440-109936-4	Water	20150514		Stage 4		X					X	
440-109936-1	PC-94	440-109936-5	Water	20150514		Stage 4		X					X	
440-109936-1	PC-58	440-109936-6	Water	20150514		Stage 4		X					X	
440-109936-1	PC-56	440-109936-7	Water	20150514		Stage 4		X					X	
440-109936-1	EB-8	440-109936-8	Water	20150514	EB	Stage 4		X	X				X	
440-109936-1	PC-60	440-109936-9	Water	20150514		Stage 4		X					X	
440-109936-1	PC-59	440-109936-10	Water	20150514		Stage 4		X					X	
440-109936-1	PC-59DUP	440-109936-10DUP	Water	20150514	DUP	Stage 4								

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-110425-1	TR-1	440-110425-1	Water	20150518		Stage 2B		X					X	
440-110425-1	TR-1MS	440-110425-1MS	Water	20150518	MS	Stage 2B		X						
440-110425-1	TR-1MSD	440-110425-1MSD	Water	20150518	MSD	Stage 2B		X						
440-110425-1	TR-4	440-110425-2	Water	20150518		Stage 2B		X					X	
440-110425-1	TR-3	440-110425-3	Water	20150518		Stage 2B		X					X	
440-110425-1	TR-5	440-110425-4	Water	20150518		Stage 2B		X					X	
440-110425-1	TR-5DUP	440-110425-4DUP	Water	20150518	DUP	Stage 2B								
440-110425-1	TR-6	440-110425-5	Water	20150518		Stage 2B		X					X	
440-110425-1	TR-7	440-110425-6	Water	20150518		Stage 2B		X					X	
440-110520-1	PC-62	440-110520-1	Water	20150519		Stage 2B		X					X	
440-110520-1	PC-62DUP	440-110520-1DUP	Water	20150519	DUP	Stage 2B								
440-110520-1	PC-62MS	440-110520-1MS	Water	20150519	MS	Stage 2B		X						
440-110520-1	PC-62MSD	440-110520-1MSD	Water	20150519	MSD	Stage 2B		X						
440-110520-1	PC-68	440-110520-2	Water	20150519		Stage 2B		X					X	
440-110520-1	PC-86	440-110520-3	Water	20150519		Stage 2B		X		X		X	X	
440-110520-1	PC-86MS	440-110520-3MS	Water	20150519	MS	Stage 2B						X		
440-110520-1	PC-86MSD	440-110520-3MSD	Water	20150519	MSD	Stage 2B						X		
440-110520-1	PC-122	440-110520-4	Water	20150519		Stage 2B		X					X	
440-110520-1	PC-53	440-110520-5	Water	20150519		Stage 2B		X					X	
440-110520-1	MW-K5	440-110520-6	Water	20150519		Stage 2B		X		X		X	X	
440-110520-1	ARP-7	440-110520-7	Water	20150519		Stage 2B		X					X	
440-110520-1	ARP-6B	440-110520-8	Water	20150519		Stage 2B		X					X	
440-110520-1	ARP-5A	440-110520-9	Water	20150519		Stage 2B		X					X	
440-110520-1	ARP-5ADUP	440-110520-9DUP	Water	20150519	DUP	Stage 2B								
440-110520-1	ARP-4A	440-110520-10	Water	20150519		Stage 2B		X					X	
440-110520-1	EB-9	440-110520-11	Water	20150519	EB	Stage 2B		X	X				X	
440-110520-1	EB-9MS	440-110520-11MS	Water	20150519	MS	Stage 2B			X					
440-110520-1	EB-9MSD	440-110520-11MSD	Water	20150519	MSD	Stage 2B			X					
440-110520-1	MW-K4	440-110520-12	Water	20150519		Stage 2B		X					X	
440-110520-1	MW-K4DUP	440-110520-12DUP	Water	20150519	DUP	Stage 2B								
440-110520-1	MW-K4MS	440-110520-12MS	Water	20150519	MS	Stage 2B		X						
440-110520-1	MW-K4MSD	440-110520-12MSD	Water	20150519	MSD	Stage 2B		X						
440-110520-1	ARP-3A	440-110520-13	Water	20150519		Stage 2B		X					X	
440-110520-1	ARP-2A	440-110520-14	Water	20150519		Stage 2B		X					X	
440-110604-1	TR-8	440-110604-1	Water	20150519		Stage 2B		X					X	
440-110604-1	TR-8DUP	440-110604-1DUP	Water	20150519	DUP	Stage 2B								

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-110604-1	TR-8MS	440-110604-1MS	Water	20150519	MS	Stage 2B		X						
440-110604-1	TR-8MSD	440-110604-1MSD	Water	20150519	MSD	Stage 2B		X						
440-110604-1	M-120	440-110604-2	Water	20150519		Stage 2B		X					X	
440-110604-1	M-118	440-110604-3	Water	20150519		Stage 2B		X					X	
440-110604-1	M-121	440-110604-4	Water	20150519		Stage 2B		X					X	
440-110670-1	PC-144	440-110670-1	Water	20150520	FD6	Stage 2B		X					X	
440-110670-1	PC-144MS	440-110670-1MS	Water	20150520	MS	Stage 2B		X						
440-110670-1	PC-144MSD	440-110670-1MSD	Water	20150520	MSD	Stage 2B		X						
440-110670-1	PC-101R	440-110670-2	Water	20150520		Stage 2B		X					X	
440-110670-1	PC-101RDUP	440-110670-2DUP	Water	20150520	DUP	Stage 2B								
440-110670-1	PC-103	440-110670-3	Water	20150520		Stage 2B		X		X		X	X	
440-110670-1	PC-98R	440-110670-4	Water	20150520		Stage 2B		X					X	
440-110670-1	PC-145	440-110670-5	Water	20150520		Stage 2B		X					X	
440-110670-1	PC-137	440-110670-6	Water	20150520		Stage 2B		X					X	
440-110670-1	PC-136	440-110670-7	Water	20150520		Stage 2B		X					X	
440-110670-1	PC-2	440-110670-8	Water	20150520		Stage 2B		X		X		X	X	
440-110670-1	PC-4	440-110670-9	Water	20150520		Stage 2B		X		X		X	X	
440-110670-1	HMW-16	440-110670-10	Water	20150520		Stage 2B							X	
440-110670-1	EB-10	440-110670-11	Water	20150520	EB	Stage 2B		X	X				X	
440-110670-1	EB-10MS	440-110670-11MS	Water	20150520	MS	Stage 2B			X					
440-110670-1	EB-10MSD	440-110670-11MSD	Water	20150520	MSD	Stage 2B			X					
440-110670-1	DUP-1	440-110670-12	Water	20150520	FD6	Stage 2B		X					X	
440-110670-1	DUP-1DUP	440-110670-12DUP	Water	20150520	DUP	Stage 2B								
440-110673-1	M-150	440-110673-1	Water	20150520		Stage 2B		X					X	
440-110673-1	M-150DUP	440-110673-1DUP	Water	20150520	DUP	Stage 2B								
440-110673-1	M-150MS	440-110673-1MS	Water	20150520	MS	Stage 2B		X						
440-110673-1	M-150MSD	440-110673-1MSD	Water	20150520	MSD	Stage 2B		X						
440-110673-1	M-154	440-110673-2	Water	20150520		Stage 2B		X					X	
440-110673-1	M-161	440-110673-3	Water	20150520		Stage 2B		X					X	
440-110673-1	M-162	440-110673-4	Water	20150520		Stage 2B		X					X	
440-110673-1	M-163	440-110673-5	Water	20150520		Stage 2B		X					X	
440-110673-1	M-164	440-110673-6	Water	20150520		Stage 2B		X					X	
440-110832-1	PC-148	440-110832-1	Water	20150521	FD7	Stage 2B		X					X	
440-110832-1	PC-148DUP	440-110832-1DUP	Water	20150521	DUP	Stage 2B								
440-110832-1	PC-149	440-110832-2	Water	20150521		Stage 2B		X					X	
440-110832-1	PC-143	440-110832-3	Water	20150521		Stage 2B		X					X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-110832-1	M-70	440-110832-4	Water	20150521		Stage 2B		X					X	
440-110832-1	M-71	440-110832-5	Water	20150521		Stage 2B		X					X	
440-110832-1	M-71MS	440-110832-5MS	Water	20150521	MS	Stage 2B		X						
440-110832-1	M-71MSD	440-110832-5MSD	Water	20150521	MSD	Stage 2B		X						
440-110832-1	M-72	440-110832-6	Water	20150521		Stage 2B		X					X	
440-110832-1	M-22A	440-110832-7	Water	20150521		Stage 2B		X					X	
440-110832-1	M-38	440-110832-8	Water	20150521		Stage 2B		X	X	X		X	X	
440-110832-1	EB-6	440-110832-9	Water	20150521	EB	Stage 2B		X	X				X	
440-110832-1	DUP-2	440-110832-10	Water	20150521	FD7	Stage 2B		X					X	
440-110834-1	TR-2	440-110834-1	Water	20150521		Stage 2B		X					X	
440-110834-1	TR-2DUP	440-110834-1DUP	Water	20150521	DUP	Stage 2B								
440-110834-1	TR-11	440-110834-2	Water	20150521		Stage 2B		X					X	
440-110834-1	TR-12	440-110834-3	Water	20150521		Stage 2B		X					X	
440-110834-1	M-152	440-110834-4	Water	20150521		Stage 2B		X					X	
440-110834-1	M-156	440-110834-5	Water	20150521		Stage 2B		X					X	
440-110834-1	M-156MS	440-110834-5MS	Water	20150521	MS	Stage 2B		X						
440-110834-1	M-156MSD	440-110834-5MSD	Water	20150521	MSD	Stage 2B		X						
440-110834-1	E. BLANK	440-110834-6	Water	20150521	EB	Stage 2B		X					X	
440-110834-1	E. BLANKDUP	440-110834-6DUP	Water	20150521	DUP	Stage 2B								
440-110915-1	M-5A	440-110915-1	Water	20150522		Stage 2B	X			X			X	
440-110915-1	M-5ADUP	440-110915-1DUP	Water	20150522	DUP	Stage 2B								
440-110915-1	M-5AMS	440-110915-1MS	Water	20150522	MS	Stage 2B	X							
440-110915-1	M-5AMSD	440-110915-1MSD	Water	20150522	MSD	Stage 2B	X							
440-110915-1	M-7B	440-110915-2	Water	20150522		Stage 2B	X			X			X	
440-110962-1	M-99	440-110962-1	Water	20150522		Stage 2B		X					X	
440-110962-1	M-14A	440-110962-2	Water	20150522		Stage 2B		X					X	
440-110962-1	MW-16	440-110962-3	Water	20150522		Stage 2B		X					X	
440-110962-1	MW-16MS	440-110962-3MS	Water	20150522	MS	Stage 2B		X						
440-110962-1	MW-16MSD	440-110962-3MSD	Water	20150522	MSD	Stage 2B		X						
440-110962-1	M-25	440-110962-4	Water	20150522	FD8	Stage 2B		X		X		X	X	
440-110962-1	M-25DUP	440-110962-4DUP	Water	20150522	DUP	Stage 2B								
440-110962-1	M-37	440-110962-5	Water	20150522		Stage 2B		X	X	X		X	X	
440-110962-1	M-92	440-110962-6	Water	20150522		Stage 2B		X					X	
440-110962-1	M-97	440-110962-7	Water	20150522		Stage 2B		X					X	
440-110962-1	DUP-3	440-110962-8	Water	20150522	FD8	Stage 2B		X		X		X	X	
440-110962-1	EB-7	440-110962-9	Water	20150522	EB	Stage 2B		X	X				X	

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SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-111099-1	M-155	440-111099-1	Water	20150526		Stage 2B		X					X	
440-111099-1	M-151	440-111099-2	Water	20150526		Stage 2B		X					X	
440-111099-1	M-151DUP	440-111099-2DUP	Water	20150526	DUP	Stage 2B								
440-111099-1	M-181	440-111099-3	Water	20150526		Stage 2B		X					X	
440-111099-1	M-182	440-111099-4	Water	20150526		Stage 2B		X					X	
440-111099-1	M-165	440-111099-5	Water	20150526		Stage 2B		X					X	
440-111099-1	M-186	440-111099-6	Water	20150526		Stage 2B		X					X	
440-111099-1	M-153	440-111099-7	Water	20150526		Stage 2B		X					X	
440-111099-1	M-153DUP	440-111099-7DUP	Water	20150526	DUP	Stage 2B								
440-111099-1	M-149	440-111099-8	Water	20150526		Stage 2B		X					X	
440-111099-1	M-117	440-111099-9	Water	20150526		Stage 2B		X					X	
440-111102-1	PC-54	440-111102-1	Water	20150526		Stage 2B		X					X	
440-111102-1	PC-54DUP	440-111102-1DUP	Water	20150526	DUP	Stage 2B								
440-111102-1	M-48A	440-111102-2	Water	20150526		Stage 2B		X		X		X	X	
440-111102-1	PC-21A	440-111102-3	Water	20150526		Stage 2B		X		X		X	X	
440-111102-1	PC-71	440-111102-4	Water	20150526		Stage 2B		X					X	
440-111102-1	PC-72	440-111102-5	Water	20150526		Stage 2B		X					X	
440-111102-1	PC-73	440-111102-6	Water	20150526		Stage 2B		X					X	
440-111102-1	PC-40	440-111102-7	Water	20150526		Stage 2B		X					X	
440-111102-1	H-58A	440-111102-8	Water	20150526		Stage 2B		X					X	
440-111102-1	H-58AMS	440-111102-8MS	Water	20150526	MS	Stage 2B		X						
440-111102-1	H-58AMSD	440-111102-8MSD	Water	20150526	MSD	Stage 2B		X						
440-111102-1	M-95	440-111102-9	Water	20150526		Stage 2B		X	X				X	
440-111102-1	M-44	440-111102-10	Water	20150526	FD9	Stage 2B		X	X				X	
440-111102-1	DUP-4	440-111102-11	Water	20150526	FD9	Stage 2B		X	X				X	
440-111102-1	DUP-4DUP	440-111102-11DUP	Water	20150526	DUP	Stage 2B								
440-111102-1	EB-5	440-111102-12	Water	20150526	EB	Stage 2B		X	X				X	
440-111102-1	EB-5DUP	440-111102-12DUP	Water	20150526	DUP	Stage 2B								
440-111211-1	PC-55	440-111211-1	Water	20150527		Stage 4		X					X	
440-111211-1	PC-55DUP	440-111211-1DUP	Water	20150527	DUP	Stage 4								
440-111211-1	PC-18	440-111211-2	Water	20150527		Stage 4		X					X	
440-111211-1	ARP-1	440-111211-3	Water	20150527		Stage 4		X					X	
440-111211-1	PC-142	440-111211-4	Water	20150527		Stage 4		X					X	
440-111211-1	PC-107	440-111211-5	Water	20150527		Stage 4							X	
440-111211-1	PC-37	440-111211-6	Water	20150527		Stage 4		X					X	
440-111211-1	MC-65	440-111211-7	Water	20150527		Stage 4		X					X	

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SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-111211-1	MC-7	440-111211-8	Water	20150527		Stage 4							X	
440-111211-1	MC-3	440-111211-9	Water	20150527		Stage 4							X	
440-111211-1	MC-3DUP	440-111211-9DUP	Water	20150527	DUP	Stage 4								
440-111211-1	MC-29	440-111211-10	Water	20150527		Stage 4							X	
440-111211-1	MC-69	440-111211-11	Water	20150527		Stage 4							X	
440-111211-1	MC-69DUP	440-111211-11DUP	Water	20150527	DUP	Stage 4								
440-111211-1	MC-6	440-111211-12	Water	20150527		Stage 4							X	
440-111211-1	EB-11	440-111211-13	Water	20150527	EB	Stage 4		X	X				X	
440-111211-1	EB-11MS	440-111211-13MS	Water	20150527	MS	Stage 4			X					
440-111211-1	EB-11MSD	440-111211-13MSD	Water	20150527	MSD	Stage 4			X					
440-111211-1	MC-45	440-111211-14	Water	20150527		Stage 4							X	
440-111211-1	FB-2	440-111211-15	Water	20150527	FB	Stage 4		X	X				X	
440-111211-1	MC-50	440-111211-16	Water	20150527		Stage 4							X	
440-111211-1	M-23	440-111211-17	Water	20150527		Stage 4		X		X		X	X	
440-111211-1	M-23MS	440-111211-17MS	Water	20150527	MS	Stage 4		X						
440-111211-1	M-23MSD	440-111211-17MSD	Water	20150527	MSD	Stage 4		X						
440-111333-1	H-28A	440-111333-1	Water	20150528		Stage 2B	X			X			X	
440-111333-1	H-28ADUP	440-111333-1DUP	Water	20150528	DUP	Stage 2B								
440-111333-1	M-6A	440-111333-2	Water	20150528		Stage 2B	X			X			X	
440-111334-1	MC-93	440-111334-1	Water	20150528		Stage 2B							X	
440-111334-1	MC-51	440-111334-2	Water	20150528		Stage 2B							X	
440-111334-1	MC-53	440-111334-3	Water	20150528		Stage 2B		X					X	
440-111334-1	MC-97	440-111334-4	Water	20150528		Stage 2B							X	
440-111334-1	PC-64	440-111334-5	Water	20150528		Stage 2B		X					X	
440-111334-1	PC-65	440-111334-6	Water	20150528		Stage 2B		X					X	
440-111334-1	PC-65DUP	440-111334-6DUP	Water	20150528	DUP	Stage 2B								
440-111334-1	PC-67	440-111334-7	Water	20150528		Stage 2B		X					X	
440-111334-1	EB-13	440-111334-8	Water	20150528	EB	Stage 2B		X	X				X	
440-111334-1	EB-13DUP	440-111334-8DUP	Water	20150528	DUP	Stage 2B								
440-111334-1	EB-13MS	440-111334-8MS	Water	20150528	MS	Stage 2B			X					
440-111334-1	EB-13MSD	440-111334-8MSD	Water	20150528	MSD	Stage 2B			X					
440-111334-1	PC-31	440-111334-9	Water	20150528		Stage 2B		X					X	
440-111334-1	PC-28	440-111334-10	Water	20150528		Stage 2B		X					X	
440-111455-1	M-81A	440-111455-1	Water	20150529		Stage 2B		X					X	
440-111455-1	M-81ADUP	440-111455-1DUP	Water	20150529	DUP	Stage 2B								
440-111455-1	M-80	440-111455-2	Water	20150529		Stage 2B		X					X	

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440-111455-1	M-83	440-111455-3	Water	20150529		Stage 2B		X					X	
440-111455-1	I-V	440-111455-4	Water	20150529		Stage 2B		X					X	
440-111455-1	I-VDUP	440-111455-4DUP	Water	20150529	DUP	Stage 2B								
440-111455-1	I-I	440-111455-5	Water	20150529		Stage 2B		X					X	
440-111455-1	I-IMS	440-111455-5MS	Water	20150529	MS	Stage 2B		X						
440-111455-1	I-IMSD	440-111455-5MSD	Water	20150529	MSD	Stage 2B		X						
440-111455-1	I-Z	440-111455-6	Water	20150529		Stage 2B		X					X	
440-111455-1	I-J	440-111455-7	Water	20150529		Stage 2B		X					X	
440-111455-1	I-K	440-111455-8	Water	20150529		Stage 2B		X					X	
440-111455-1	I-AC	440-111455-9	Water	20150529		Stage 2B		X					X	
440-111455-1	I-AD	440-111455-10	Water	20150529		Stage 2B		X					X	
440-111455-1	M-68	440-111455-11	Water	20150529		Stage 2B		X					X	
440-111455-1	M-68DUP	440-111455-11DUP	Water	20150529	DUP	Stage 2B								
440-111455-1	M-67	440-111455-12	Water	20150529		Stage 2B		X					X	
440-111455-1	M-73	440-111455-13	Water	20150529		Stage 2B		X					X	
440-111455-1	M-74	440-111455-14	Water	20150529		Stage 2B		X					X	
440-111455-1	M-19	440-111455-15	Water	20150529		Stage 2B		X					X	
440-111455-1	M-19MS	440-111455-15MS	Water	20150529	MS	Stage 2B		X						
440-111455-1	M-19MSD	440-111455-15MSD	Water	20150529	MSD	Stage 2B		X						
440-111455-1	M-35	440-111455-16	Water	20150529		Stage 2B		X					X	
440-111455-1	EB-12	440-111455-17	Water	20150529	EB	Stage 2B		X	X				X	
440-111455-1	EB-12MS	440-111455-17MS	Water	20150529	MS	Stage 2B			X					
440-111455-1	EB-12MSD	440-111455-17MSD	Water	20150529	MSD	Stage 2B			X					
440-111455-1	M-2A	440-111455-18	Water	20150529		Stage 2B		X					X	
440-111455-1	M-2ADUP	440-111455-18DUP	Water	20150529	DUP	Stage 2B								
440-111455-1	M-75	440-111455-19	Water	20150529		Stage 2B		X					X	
440-111455-1	M-76	440-111455-20	Water	20150529		Stage 2B		X					X	
440-111455-1	M-115	440-111455-21	Water	20150529		Stage 2B		X					X	
440-111455-1	M-115DUP	440-111455-21DUP	Water	20150529	DUP	Stage 2B								
440-111577-1	ART-1	440-111577-1	Water	20150601		Stage 2B							X	
440-111577-1	ART-1DUP	440-111577-1DUP	Water	20150601	DUP	Stage 2B								
440-111577-1	ART-2	440-111577-2	Water	20150601		Stage 2B							X	
440-111577-1	ART-3	440-111577-3	Water	20150601		Stage 2B							X	
440-111577-1	ART-4	440-111577-4	Water	20150601		Stage 2B							X	
440-111577-1	ART-6	440-111577-5	Water	20150601		Stage 2B							X	
440-111577-1	ART-7B	440-111577-6	Water	20150601		Stage 2B							X	

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440-111577-1	ART-8	440-111577-7	Water	20150601		Stage 2B							X	
440-111577-1	ART-9	440-111577-8	Water	20150601		Stage 2B							X	
440-111577-1	PC-99R2/R3	440-111577-9	Water	20150601		Stage 2B							X	
440-111577-1	PC-115R	440-111577-10	Water	20150601		Stage 2B							X	
440-111577-1	PC-116R	440-111577-11	Water	20150601		Stage 2B							X	
440-111577-1	PC-116RDUP	440-111577-11DUP	Water	20150601	DUP	Stage 2B								
440-111577-1	PC-117	440-111577-12	Water	20150601		Stage 2B							X	
440-111577-1	PC-118	440-111577-13	Water	20150601		Stage 2B							X	
440-111577-1	PC-119	440-111577-14	Water	20150601		Stage 2B							X	
440-111577-1	PC-120	440-111577-15	Water	20150601		Stage 2B							X	
440-111577-1	PC-121	440-111577-16	Water	20150601		Stage 2B							X	
440-111577-1	PC-133	440-111577-17	Water	20150601		Stage 2B							X	
440-111577-1	PC-150	440-111577-18	Water	20150601		Stage 2B							X	
440-111754-1	AA-01	440-111754-1	Water	20150602		Stage 2B							X	
440-111754-1	AA-01DUP	440-111754-1DUP	Water	20150602	DUP	Stage 2B								
440-111754-1	PC-66	440-111754-2	Water	20150602		Stage 2B		X					X	
440-111754-1	PC-66MS	440-111754-2MS	Water	20150602	MS	Stage 2B		X						
440-111754-1	PC-66MSD	440-111754-2MSD	Water	20150602	MSD	Stage 2B		X						
440-111754-1	M-144	440-111754-3	Water	20150602		Stage 2B		X					X	
440-111754-1	M-146	440-111754-4	Water	20150602		Stage 2B		X					X	
440-111754-1	M-147	440-111754-5	Water	20150602		Stage 2B		X					X	
440-111754-1	M-142	440-111754-6	Water	20150602		Stage 2B		X					X	
440-111754-1	M-142DUP	440-111754-6DUP	Water	20150602	DUP	Stage 2B								
440-111754-1	M-145	440-111754-7	Water	20150602		Stage 2B		X					X	
440-111754-1	M-139	440-111754-8	Water	20150602		Stage 2B		X					X	
440-111754-1	M-141	440-111754-9	Water	20150602		Stage 2B		X					X	
440-111754-1	M-148A	440-111754-10	Water	20150602		Stage 2B		X					X	
440-111754-1	EB-14	440-111754-11	Water	20150602	EB	Stage 2B		X	X				X	
440-111754-1	EB-14DUP	440-111754-11DUP	Water	20150602	DUP	Stage 2B								
440-111754-1	M-52	440-111754-12	Water	20150602		Stage 2B		X					X	
440-111754-1	M-31A	440-111754-13	Water	20150602		Stage 2B		X					X	
440-111754-1	M-31ADUP	440-111754-13DUP	Water	20150602	DUP	Stage 2B								
440-111886-1	M-125	440-111886-1	Water	20150603		Stage 2B		X					X	
440-111886-1	M-123	440-111886-2	Water	20150603		Stage 2B		X					X	
440-111886-1	M-123DUP	440-111886-2DUP	Water	20150603	DUP	Stage 2B								
440-111886-1	M-123MS	440-111886-2MS	Water	20150603	MS	Stage 2B		X						

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-111886-1	M-123MSD	440-111886-2MSD	Water	20150603	MSD	Stage 2B		X						
440-111886-1	M-128	440-111886-3	Water	20150603		Stage 2B		X					X	
440-111886-1	M-124	440-111886-4	Water	20150603	FD10	Stage 2B		X					X	
440-111886-1	M-137	440-111886-5	Water	20150603		Stage 2B		X					X	
440-111886-1	M-138	440-111886-6	Water	20150603		Stage 2B		X					X	
440-111886-1	DUP-5	440-111886-7	Water	20150603	FD10	Stage 2B		X					X	
440-111886-1	DUP-6	440-111886-8	Water	20150603	FD11	Stage 2B		X	X				X	
440-111886-1	EB-15	440-111886-9	Water	20150603	EB	Stage 2B		X	X				X	
440-111887-1	M-10	440-111887-1	Water	20150603	FD11	Stage 2B	X		X	X	X	X	X	X
440-111887-1	M-10MS	440-111887-1MS	Water	20150603	MS	Stage 2B	X							X
440-111887-1	M-10MSD	440-111887-1MSD	Water	20150603	MSD	Stage 2B	X							X
440-112107-1	M-77	440-112107-1	Water	20150605		Stage 4		X					X	
440-112107-1	M-77DUP	440-112107-1DUP	Water	20150605	DUP	Stage 4								
440-112107-1	M-132	440-112107-2	Water	20150605		Stage 4		X					X	
440-112107-1	M-132MS	440-112107-2MS	Water	20150605	MS	Stage 4		X						
440-112107-1	M-132MSD	440-112107-2MSD	Water	20150605	MSD	Stage 4		X						
440-112107-1	M-133	440-112107-3	Water	20150605		Stage 4		X					X	
440-112107-1	M-133DUP	440-112107-3DUP	Water	20150605	DUP	Stage 4								
440-112107-1	M-21	440-112107-4	Water	20150605		Stage 4		X					X	
440-112107-1	M-13	440-112107-5	Water	20150605		Stage 4		X		X		X	X	
440-112107-1	M-13MS	440-112107-5MS	Water	20150605	MS	Stage 4				X				
440-112107-1	M-13MSD	440-112107-5MSD	Water	20150605	MSD	Stage 4				X				
440-112107-1	M-12A	440-112107-6	Water	20150605	FD12	Stage 4		X	X	X		X	X	
440-112107-1	M-11	440-112107-7	Water	20150605		Stage 4		X	X	X		X	X	
440-112107-1	EB-16	440-112107-8	Water	20150605	EB	Stage 4		X	X				X	
440-112107-1	EB-16MS	440-112107-8MS	Water	20150605	MS	Stage 4			X					
440-112107-1	EB-16MSD	440-112107-8MSD	Water	20150605	MSD	Stage 4			X					
440-112107-1	DUP-7	440-112107-9	Water	20150605	FD12	Stage 4		X	X	X		X	X	
440-112454-1	PC-55	440-112454-1	Water	20150609		Stage 2B							X	
440-112454-1	PC-98R	440-112454-2	Water	20150609		Stage 2B							X	
440-112626-1	TR-9	440-112626-1	Water	20150610		Stage 2B		X					X	
440-112626-1	TR-10	440-112626-2	Water	20150610		Stage 2B		X					X	
440-113481-1	PC-97	440-113481-1	Water	20150623		Stage 2B							X	
440-113481-1	PC-90	440-113481-2	Water	20150623		Stage 2B							X	
440-113481-1	PC-91	440-113481-3	Water	20150623		Stage 2B							X	
440-113481-1	PC-91DUP	440-113481-3DUP	Water	20150623	DUP	Stage 2B								

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-113481-1	PC-58	440-113481-4	Water	20150623		Stage 2B							X	
440-113481-1	PC-56	440-113481-5	Water	20150623		Stage 2B							X	
440-113481-1	PC-60	440-113481-6	Water	20150623		Stage 2B							X	
440-113481-1	PC-59	440-113481-7	Water	20150623		Stage 2B							X	
440-113481-1	PC-62	440-113481-8	Water	20150623		Stage 2B							X	
440-113481-1	PC-68	440-113481-9	Water	20150623		Stage 2B							X	
440-113481-1	PC-86	440-113481-10	Water	20150623		Stage 2B							X	
440-113481-1	PC-18	440-113481-11	Water	20150623		Stage 2B							X	
440-113481-1	ARP-1	440-113481-12	Water	20150623		Stage 2B							X	
440-113481-1	MEB-1	440-113481-13	Water	20150623	EB	Stage 2B							X	
440-113571-1	PC-122	440-113571-1	Water	20150624		Stage 2B							X	
440-113571-1	PC-122DUP	440-113571-1DUP	Water	20150624	DUP	Stage 2B								
440-113571-1	PC-53	440-113571-2	Water	20150624		Stage 2B							X	
440-113571-1	MW-K5	440-113571-3	Water	20150624		Stage 2B							X	
440-113571-1	ARP-7	440-113571-4	Water	20150624		Stage 2B							X	
440-113571-1	ARP-6B	440-113571-5	Water	20150624		Stage 2B							X	
440-113571-1	ARP-5	440-113571-6	Water	20150624		Stage 2B							X	
440-113703-1	ARP-4A	440-113703-1	Water	20150625		Stage 2B							X	
440-113703-1	ARP-4ADUP	440-113703-1DUP	Water	20150625	DUP	Stage 2B								
440-113703-1	PC-101R	440-113703-2	Water	20150625		Stage 2B							X	
440-113703-1	MW-K4	440-113703-3	Water	20150625		Stage 2B							X	
440-113703-1	ARP-3A	440-113703-4	Water	20150625		Stage 2B							X	
440-113703-1	ARP-2A	440-113703-5	Water	20150625		Stage 2B							X	
440-113703-1	PC-103	440-113703-6	Water	20150625		Stage 2B							X	
440-113703-1	M-83	440-113703-7	Water	20150625		Stage 2B							X	
440-98184-1	ART-1	440-98184-1	Water	20150105		Stage 2B							X	
440-98184-1	ART-1DUP	440-98184-1DUP	Water	20150105	DUP	Stage 2B								
440-98184-1	ART-2	440-98184-2	Water	20150105		Stage 2B							X	
440-98184-1	ART-3	440-98184-3	Water	20150105		Stage 2B							X	
440-98184-1	ART-4	440-98184-4	Water	20150105		Stage 2B							X	
440-98184-1	ART-6	440-98184-5	Water	20150105		Stage 2B							X	
440-98184-1	ARP-7B	440-98184-6	Water	20150105		Stage 2B							X	
440-98184-1	ART-8	440-98184-7	Water	20150105		Stage 2B							X	
440-98184-1	ART-9	440-98184-8	Water	20150105		Stage 2B							X	
440-98184-1	PC-99R2/R3	440-98184-9	Water	20150105		Stage 2B							X	
440-98184-1	PC-115R	440-98184-10	Water	20150105		Stage 2B							X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-98184-1	PC-116R	440-98184-11	Water	20150105		Stage 2B							X	
440-98184-1	PC-116RDUP	440-98184-11DUP	Water	20150105	DUP	Stage 2B								
440-98184-1	PC-117	440-98184-12	Water	20150105		Stage 2B							X	
440-98184-1	PC-118	440-98184-13	Water	20150105		Stage 2B							X	
440-98184-1	PC-119	440-98184-14	Water	20150105		Stage 2B							X	
440-98184-1	PC-120	440-98184-15	Water	20150105		Stage 2B							X	
440-98184-1	PC-121	440-98184-16	Water	20150105		Stage 2B							X	
440-98184-1	PC-133	440-98184-17	Water	20150105		Stage 2B							X	
440-98184-1	PC-150	440-98184-18	Water	20150105		Stage 2B							X	
440-99068-1	PC-97	440-99068-1	Water	20150113		Stage 2B							X	
440-99068-1	PC-97DUP	440-99068-1DUP	Water	20150113	DUP	Stage 2B								
440-99068-1	PC-90	440-99068-2	Water	20150113		Stage 2B							X	
440-99068-1	PC-91	440-99068-3	Water	20150113		Stage 2B							X	
440-99068-1	PC-58	440-99068-4	Water	20150113		Stage 2B							X	
440-99068-1	PC-56	440-99068-5	Water	20150113		Stage 2B							X	
440-99068-1	PC-60	440-99068-6	Water	20150113		Stage 2B							X	
440-99068-1	PC-59	440-99068-7	Water	20150113		Stage 2B							X	
440-99068-1	PC-62	440-99068-8	Water	20150113		Stage 2B							X	
440-99068-1	PC-68	440-99068-9	Water	20150113		Stage 2B							X	
440-99068-1	PC-86	440-99068-10	Water	20150113		Stage 2B							X	
440-99068-1	PC-18	440-99068-11	Water	20150114		Stage 2B							X	
440-99068-1	PC-18DUP	440-99068-11DUP	Water	20150114	DUP	Stage 2B								
440-99068-1	ARP-1	440-99068-12	Water	20150114		Stage 2B							X	
440-99068-1	PC-103	440-99068-13	Water	20150114		Stage 2B							X	
440-99068-1	PC-98R	440-99068-14	Water	20150114		Stage 2B							X	
440-99068-1	MEB-1	440-99068-15	Water	20150114	EB	Stage 2B							X	
440-99068-1	ARP-2A	440-99068-16	Water	20150114		Stage 2B							X	
440-99068-1	ARP-3A	440-99068-17	Water	20150114		Stage 2B							X	
440-99068-1	MW-K4	440-99068-18	Water	20150114		Stage 2B							X	
440-99068-1	ARP-4A	440-99068-19	Water	20150114		Stage 2B							X	
440-99068-1	ARP-5A	440-99068-20	Water	20150114		Stage 2B							X	
440-99129-1	M-83	440-99129-1	Water	20150115		Stage 2B							X	
440-99129-1	PC-53	440-99129-2	Water	20150115		Stage 2B							X	
440-99129-1	MW-K5	440-99129-3	Water	20150115		Stage 2B							X	
440-99129-1	ARP-7	440-99129-4	Water	20150115		Stage 2B							X	
440-99129-1	ARP-6B	440-99129-5	Water	20150115		Stage 2B							X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Metals (200.7)	Cr (200.7)	Cr^{6+} (218.6)	Cl,SO_4,NO_3-N,NO_2-N (300.0)	NO_3/NO_2-N (353.2)	ClO_3 (300.1)	ClO_4 (314.0)	NH_3-N (350.1)
440-99129-1	PC-101R	440-99129-6	Water	20150115		Stage 2B							X	
440-99129-1	PC-122	440-99129-7	Water	20150115		Stage 2B							X	
440-99129-1	PC-55	440-99129-8	Water	20150115		Stage 2B							X	

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-100474-1	ART-1	440-100474-1	Water	20150202		Stage 2B				X	X		
440-100474-1	ART-1DUP	440-100474-1DUP	Water	20150202	DUP	Stage 2B				X	X		
440-100474-1	ART-1MS	440-100474-1MS	Water	20150202	MS	Stage 2B							
440-100474-1	ART-1MSD	440-100474-1MSD	Water	20150202	MSD	Stage 2B							
440-100474-1	ART-2	440-100474-2	Water	20150202		Stage 2B				X	X		
440-100474-1	ART-3	440-100474-3	Water	20150202		Stage 2B				X	X		
440-100474-1	ART-4	440-100474-4	Water	20150202		Stage 2B				X	X		
440-100474-1	ART-6	440-100474-5	Water	20150202		Stage 2B				X	X		
440-100474-1	ART-7B	440-100474-6	Water	20150202		Stage 2B				X	X		
440-100474-1	ART-8	440-100474-7	Water	20150202		Stage 2B				X	X		
440-100474-1	ART-9	440-100474-8	Water	20150202		Stage 2B				X	X		
440-100474-1	PC-99R2/R3	440-100474-9	Water	20150202		Stage 2B				X	X		
440-100474-1	PC-115R	440-100474-10	Water	20150202		Stage 2B				X	X		
440-100474-1	PC-115RDUP	440-100474-10DUP	Water	20150202	DUP	Stage 2B					X		
440-100474-1	PC-116R	440-100474-11	Water	20150202		Stage 2B				X	X		
440-100474-1	PC-116RDUP	440-100474-11DUP	Water	20150202	DUP	Stage 2B				X			
440-100474-1	PC-116RMS	440-100474-11MS	Water	20150202	MS	Stage 2B							
440-100474-1	PC-116RMSD	440-100474-11MSD	Water	20150202	MSD	Stage 2B							
440-100474-1	PC-117	440-100474-12	Water	20150202		Stage 2B				X	X		
440-100474-1	PC-118	440-100474-13	Water	20150202		Stage 2B				X	X		
440-100474-1	PC-119	440-100474-14	Water	20150202		Stage 2B				X	X		
440-100474-1	PC-120	440-100474-15	Water	20150202		Stage 2B				X	X		
440-100474-1	PC-121	440-100474-16	Water	20150202		Stage 2B				X	X		
440-100474-1	PC-133	440-100474-17	Water	20150202		Stage 2B				X	X		
440-100474-1	PC-150	440-100474-18	Water	20150202		Stage 2B				X	X		
440-101558-1	PC-58	440-101558-1	Water	20150210		Stage 2B				X	X		
440-101558-1	PC-58DUP	440-101558-1DUP	Water	20150210	DUP	Stage 2B					X		
440-101558-1	PC-56	440-101558-2	Water	20150210		Stage 2B				X	X		
440-101558-1	PC-60	440-101558-3	Water	20150210		Stage 2B				X	X		
440-101558-1	PC-59	440-101558-4	Water	20150210		Stage 2B				X	X		
440-101558-1	PC-90	440-101558-5	Water	20150211		Stage 2B				X	X		
440-101558-1	PC-90DUP	440-101558-5DUP	Water	20150211	DUP	Stage 2B				X			
440-101558-1	PC-91	440-101558-6	Water	20150211		Stage 2B				X	X		
440-101558-1	PC-94	440-101558-7	Water	20150211		Stage 2B				X	X		
440-101558-1	PC-62	440-101558-8	Water	20150211		Stage 2B				X	X		
440-101558-1	PC-62DUP	440-101558-8DUP	Water	20150211	DUP	Stage 2B					X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-101558-1	PC-62MS	440-101558-8MS	Water	20150211	MS	Stage 2B							
440-101558-1	PC-62MSD	440-101558-8MSD	Water	20150211	MSD	Stage 2B							
440-101558-1	PC-68	440-101558-9	Water	20150211		Stage 2B				X	X		
440-101558-1	PC-86	440-101558-10	Water	20150211		Stage 2B				X	X		
440-101558-1	ARP-1	440-101558-11	Water	20150211		Stage 2B				X	X		
440-101655-1	PC-97	440-101655-1	Water	20150212		Stage 4				X	X		
440-101655-1	ARP-3A	440-101655-2	Water	20150212		Stage 4				X	X		
440-101655-1	PC-144	440-101655-3	Water	20150212		Stage 4				X	X		
440-101655-1	PC-101R	440-101655-4	Water	20150212		Stage 4				X	X		
440-101655-1	PC-101RDUP	440-101655-4DUP	Water	20150212	DUP	Stage 4				X			
440-101655-1	MW-K4	440-101655-5	Water	20150212		Stage 4				X	X		
440-101655-1	ARP-4A	440-101655-6	Water	20150212		Stage 4				X	X		
440-101655-1	ARP-5A	440-101655-7	Water	20150212		Stage 4				X	X		
440-101655-1	ARP-6B	440-101655-8	Water	20150212		Stage 4				X	X		
440-101655-1	ARP-6BDUP	440-101655-8DUP	Water	20150212	DUP	Stage 4					X		
440-101655-1	ARP-7	440-101655-9	Water	20150212		Stage 4				X	X		
440-101655-1	PC-53	440-101655-10	Water	20150212		Stage 4				X	X		
440-101655-1	PC-53MS	440-101655-10MS	Water	20150212	MS	Stage 4							
440-101655-1	PC-53MSD	440-101655-10MSD	Water	20150212	MSD	Stage 4							
440-101655-1	MW-K5	440-101655-11	Water	20150212		Stage 4				X	X		
440-101929-1	M-83	440-101929-1	Water	20150213		Stage 2B				X	X		
440-101929-1	M-83DUP	440-101929-1DUP	Water	20150213	DUP	Stage 2B				X			
440-101929-1	M-83MS	440-101929-1MS	Water	20150213	MS	Stage 2B							
440-101929-1	M-83MSD	440-101929-1MSD	Water	20150213	MSD	Stage 2B							
440-101929-1	ART-7A	440-101929-2	Water	20150213		Stage 2B				X	X		
440-101929-1	ART-7AMS	440-101929-2MS	Water	20150213	MS	Stage 2B							
440-101929-1	ART-7AMSD	440-101929-2MSD	Water	20150213	MSD	Stage 2B							
440-101929-1	PC-122	440-101929-3	Water	20150213		Stage 2B				X	X		
440-101929-1	ARP-2A	440-101929-4	Water	20150213		Stage 2B				X	X		
440-101929-1	PC-18	440-101929-5	Water	20150213		Stage 2B				X	X		
440-101929-1	PC-55	440-101929-6	Water	20150213		Stage 2B				X	X		
440-101929-1	MEB-1	440-101929-7	Water	20150213	EB	Stage 2B							
440-102243-1	PC-103	440-102243-1	Water	20150218		Stage 2B				X	X		
440-102243-1	PC-103DUP	440-102243-1DUP	Water	20150218	DUP	Stage 2B					X		
440-102243-1	PC-103MS	440-102243-1MS	Water	20150218	MS	Stage 2B							
440-102243-1	PC-103MSD	440-102243-1MSD	Water	20150218	MSD	Stage 2B							

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-102243-1	PC-98R	440-102243-2	Water	20150218		Stage 2B				X	X		
440-102526-1	I-O	440-102526-1	Water	20150223		Stage 2B				X	X		
440-102526-1	I-ODUP	440-102526-1DUP	Water	20150223	DUP	Stage 2B				X	X		
440-102526-1	I-OMS	440-102526-1MS	Water	20150223	MS	Stage 2B							
440-102526-1	I-OMSD	440-102526-1MSD	Water	20150223	MSD	Stage 2B							
440-102526-1	I-W	440-102526-2	Water	20150223		Stage 2B				X	X		
440-102526-1	I-P	440-102526-3	Water	20150223		Stage 2B				X	X		
440-102526-1	I-H	440-102526-4	Water	20150223		Stage 2B				X	X		
440-102526-1	I-U	440-102526-5	Water	20150223		Stage 2B				X	X		
440-102526-1	I-T	440-102526-6	Water	20150223		Stage 2B				X	X		
440-102526-1	I-G	440-102526-7	Water	20150223		Stage 2B				X	X		
440-102526-1	I-Q	440-102526-8	Water	20150223		Stage 2B				X	X		
440-102526-1	I-F	440-102526-9	Water	20150223		Stage 2B				X	X		
440-102526-1	I-X	440-102526-10	Water	20150223		Stage 2B				X	X		
440-102526-1	I-N	440-102526-11	Water	20150223		Stage 2B				X	X		
440-102526-1	I-NDUP	440-102526-11DUP	Water	20150223	DUP	Stage 2B				X			
440-102526-1	I-NMS	440-102526-11MS	Water	20150223	MS	Stage 2B							
440-102526-1	I-NMSD	440-102526-11MSD	Water	20150223	MSD	Stage 2B							
440-102526-1	I-E	440-102526-12	Water	20150223		Stage 2B				X	X		
440-102526-1	I-M	440-102526-13	Water	20150223		Stage 2B				X	X		
440-102526-1	I-D	440-102526-14	Water	20150223		Stage 2B				X	X		
440-102526-1	I-C	440-102526-15	Water	20150223		Stage 2B				X	X		
440-102526-1	I-S	440-102526-16	Water	20150223		Stage 2B				X	X		
440-102526-1	I-L	440-102526-17	Water	20150223		Stage 2B				X	X		
440-102526-1	I-Y	440-102526-18	Water	20150223		Stage 2B				X	X		
440-102526-1	I-YDUP	440-102526-18DUP	Water	20150223	DUP	Stage 2B					X		
440-102526-1	I-R	440-102526-19	Water	20150223		Stage 2B				X	X		
440-102526-1	I-B	440-102526-20	Water	20150223		Stage 2B				X	X		
440-102526-1	I-AB	440-102526-21	Water	20150223		Stage 2B				X	X		
440-102526-1	I-AA	440-102526-22	Water	20150223		Stage 2B				X	X		
440-102526-1	I-AR	440-102526-23	Water	20150223		Stage 2B				X	X		
440-102689-1	PC-123	440-102689-1	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-123DUP	440-102689-1DUP	Water	20150224	DUP	Stage 2B				X	X		
440-102689-1	PC-128	440-102689-2	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-129	440-102689-3	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-130	440-102689-4	Water	20150224		Stage 2B				X	X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-102689-1	PC-131	440-102689-5	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-132	440-102689-6	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-124	440-102689-7	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-125	440-102689-8	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-126	440-102689-9	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-127	440-102689-10	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-127DUP	440-102689-10DUP	Water	20150224	DUP	Stage 2B					X		
440-102689-1	PC-127MS	440-102689-10MS	Water	20150224	MS	Stage 2B							
440-102689-1	PC-127MSD	440-102689-10MSD	Water	20150224	MSD	Stage 2B							
440-102689-1	PC-54	440-102689-11	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-54DUP	440-102689-11DUP	Water	20150224	DUP	Stage 2B				X			
440-102689-1	M-48A	440-102689-12	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-37	440-102689-13	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-73	440-102689-14	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-72	440-102689-15	Water	20150224		Stage 2B				X	X		
440-102689-1	PC-71	440-102689-16	Water	20150224		Stage 2B				X	X		
440-102689-1	M-44	440-102689-17	Water	20150224	FD1	Stage 2B				X	X		
440-102689-1	M-44MS	440-102689-17MS	Water	20150224	MS	Stage 2B							
440-102689-1	M-44MSD	440-102689-17MSD	Water	20150224	MSD	Stage 2B							
440-102689-1	M-95	440-102689-18	Water	20150224		Stage 2B				X	X		
440-102689-1	M-23	440-102689-19	Water	20150224		Stage 2B				X	X		
440-102689-1	DUP-1	440-102689-20	Water	20150224	FD1	Stage 2B				X	X		
440-102689-1	FB-1	440-102689-21	Water	20150224	FB	Stage 2B				X	X		
440-102831-1	M-57A	440-102831-1	Water	20150225		Stage 2B				X	X		
440-102831-1	M-57AMS	440-102831-1MS	Water	20150225	MS	Stage 2B							
440-102831-1	M-57AMSD	440-102831-1MSD	Water	20150225	MSD	Stage 2B							
440-102831-1	M-69	440-102831-2	Water	20150225		Stage 2B				X	X		
440-102831-1	M-64	440-102831-3	Water	20150225		Stage 2B				X	X		
440-102831-1	M-64DUP	440-102831-3DUP	Water	20150225	DUP	Stage 2B				X			
440-102831-1	M-65	440-102831-4	Water	20150225		Stage 2B				X	X		
440-102831-1	M-66	440-102831-5	Water	20150225		Stage 2B				X	X		
440-102831-1	M-79	440-102831-6	Water	20150225		Stage 2B				X	X		
440-102831-1	M-79DUP	440-102831-6DUP	Water	20150225	DUP	Stage 2B					X		
440-102831-1	M-70	440-102831-7	Water	20150225		Stage 2B				X	X		
440-102831-1	M-71	440-102831-8	Water	20150225		Stage 2B				X	X		
440-102831-1	M-72	440-102831-9	Water	20150225		Stage 2B				X	X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-102831-1	M-14A	440-102831-10	Water	20150225		Stage 2B				X	X		
440-102831-1	M-14AMS	440-102831-10MS	Water	20150225	MS	Stage 2B							
440-102831-1	M-14AMSD	440-102831-10MSD	Water	20150225	MSD	Stage 2B							
440-102831-1	PC-135A	440-102831-11	Water	20150225		Stage 2B				X	X		
440-102831-1	PC-136	440-102831-12	Water	20150225		Stage 2B				X	X		
440-102831-1	EB-1	440-102831-13	Water	20150225	EB	Stage 2B				X	X		
440-102831-1	EB-1MS	440-102831-13MS	Water	20150225	MS	Stage 2B							
440-102831-1	EB-1MSD	440-102831-13MSD	Water	20150225	MSD	Stage 2B							
440-102951-1	M-99	440-102951-1	Water	20150226		Stage 2B				X	X		
440-102951-1	M-99DUP	440-102951-1DUP	Water	20150226	DUP	Stage 2B				X	X		
440-102951-1	M-31A	440-102951-2	Water	20150226		Stage 2B				X	X		
440-102951-1	M-52	440-102951-3	Water	20150226		Stage 2B				X	X		
440-102951-1	M-35	440-102951-4	Water	20150226		Stage 2B				X	X		
440-102951-1	M-35MS	440-102951-4MS	Water	20150226	MS	Stage 2B							
440-102951-1	M-35MSD	440-102951-4MSD	Water	20150226	MSD	Stage 2B							
440-102951-1	M-19	440-102951-5	Water	20150226		Stage 2B				X	X		
440-102951-1	M-68	440-102951-6	Water	20150226	FD2	Stage 2B				X	X		
440-102951-1	M-74	440-102951-7	Water	20150226		Stage 2B				X	X		
440-102951-1	M-73	440-102951-8	Water	20150226		Stage 2B				X	X		
440-102951-1	M-67	440-102951-9	Water	20150226		Stage 2B				X	X		
440-102951-1	M-81A	440-102951-10	Water	20150226	FD3	Stage 2B				X	X		
440-102951-1	M-81ADUP	440-102951-10DUP	Water	20150226	DUP	Stage 2B					X		
440-102951-1	M-80	440-102951-11	Water	20150226		Stage 2B				X	X		
440-102951-1	M-80DUP	440-102951-11DUP	Water	20150226	DUP	Stage 2B				X			
440-102951-1	M-80MS	440-102951-11MS	Water	20150226	MS	Stage 2B							
440-102951-1	M-80MSD	440-102951-11MSD	Water	20150226	MSD	Stage 2B							
440-102951-1	DUP-2	440-102951-12	Water	20150226	FD2	Stage 2B				X	X		
440-102951-1	I-AD	440-102951-13	Water	20150226		Stage 2B				X	X		
440-102951-1	I-AC	440-102951-14	Water	20150226		Stage 2B				X	X		
440-102951-1	I-K	440-102951-15	Water	20150226		Stage 2B				X	X		
440-102951-1	I-Z	440-102951-16	Water	20150226		Stage 2B				X	X		
440-102951-1	I-I	440-102951-17	Water	20150226		Stage 2B				X	X		
440-102951-1	I-V	440-102951-18	Water	20150226		Stage 2B				X	X		
440-102951-1	DUP-4	440-102951-19	Water	20150226	FD3	Stage 2B				X	X		
440-102951-1	EB-2	440-102951-20	Water	20150226	EB	Stage 2B				X	X		
440-102951-1	M-12A	440-102951-21	Water	20150226		Stage 2B				X	X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-102951-1	M-12AMS	440-102951-21MS	Water	20150226	MS	Stage 2B							
440-102951-1	M-12AMSD	440-102951-21MSD	Water	20150226	MSD	Stage 2B							
440-102951-1	M-11	440-102951-22	Water	20150226		Stage 2B				X	X		
440-103031-1	I-J	440-103031-1	Water	20150227		Stage 2B				X	X		
440-103031-1	I-JDUP	440-103031-1DUP	Water	20150227	DUP	Stage 2B					X		
440-103031-1	I-JMS	440-103031-1MS	Water	20150227	MS	Stage 2B							
440-103031-1	I-JMSD	440-103031-1MSD	Water	20150227	MSD	Stage 2B							
440-103031-1	PC-148	440-103031-2	Water	20150227		Stage 2B				X	X		
440-103031-1	PC-149	440-103031-3	Water	20150227		Stage 2B				X	X		
440-103031-1	M-135	440-103031-4	Water	20150227		Stage 2B				X	X		
440-103031-1	M-131	440-103031-5	Water	20150227		Stage 2B				X	X		
440-103031-1	M-25	440-103031-6	Water	20150227		Stage 2B				X	X		
440-103031-1	M-25DUP	440-103031-6DUP	Water	20150227	DUP	Stage 2B				X			
440-103031-1	M-22A	440-103031-7	Water	20150227		Stage 2B				X	X		
440-103031-1	M-38	440-103031-8	Water	20150227		Stage 2B				X	X		
440-103031-1	M-37	440-103031-9	Water	20150227	FD4	Stage 2B				X	X		
440-103031-1	DUP-3	440-103031-10	Water	20150227	FD4	Stage 2B				X	X		
440-103031-1	DUP-3DUP	440-103031-10DUP	Water	20150227	DUP	Stage 2B					X		
440-103031-1	DUP-3MS	440-103031-10MS	Water	20150227	MS	Stage 2B							
440-103031-1	DUP-3MSD	440-103031-10MSD	Water	20150227	MSD	Stage 2B							
440-103261-1	ART-1	440-103261-1	Water	20150303		Stage 2B				X			
440-103261-1	ART-1DUP	440-103261-1DUP	Water	20150303	DUP	Stage 2B				X			
440-103261-1	ART-2	440-103261-2	Water	20150303		Stage 2B				X			
440-103261-1	ART-3	440-103261-3	Water	20150303		Stage 2B				X			
440-103261-1	ART-4	440-103261-4	Water	20150303		Stage 2B				X			
440-103261-1	ART-6	440-103261-5	Water	20150303		Stage 2B				X			
440-103261-1	ART-7B	440-103261-6	Water	20150303		Stage 2B				X			
440-103261-1	ART-8	440-103261-7	Water	20150303		Stage 2B				X			
440-103261-1	ART-9	440-103261-8	Water	20150303		Stage 2B				X			
440-103261-1	PC-99R2/R3	440-103261-9	Water	20150303		Stage 2B				X			
440-103261-1	PC-115R	440-103261-10	Water	20150303		Stage 2B				X			
440-103261-1	PC-116R	440-103261-11	Water	20150303		Stage 2B				X			
440-103261-1	PC-116RDUP	440-103261-11DUP	Water	20150303	DUP	Stage 2B				X			
440-103261-1	PC-117	440-103261-12	Water	20150303		Stage 2B				X			
440-103261-1	PC-118	440-103261-13	Water	20150303		Stage 2B				X			
440-103261-1	PC-119	440-103261-14	Water	20150303		Stage 2B				X			

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-103261-1	PC-120	440-103261-15	Water	20150303		Stage 2B				X			
440-103261-1	PC-121	440-103261-16	Water	20150303		Stage 2B				X			
440-103261-1	PC-133	440-103261-17	Water	20150303		Stage 2B				X			
440-103261-1	PC-150	440-103261-18	Water	20150303		Stage 2B				X			
440-103265-1	M-10	440-103265-1	Water	20150303		Stage 2B		X		X	X		
440-103265-1	M-10MS	440-103265-1MS	Water	20150303	MS	Stage 2B							
440-103265-1	M-10MSD	440-103265-1MSD	Water	20150303	MSD	Stage 2B							
440-103983-1	PC-97	440-103983-1	Water	20150309		Stage 2B				X			
440-103983-1	PC-97DUP	440-103983-1DUP	Water	20150309	DUP	Stage 2B				X			
440-103983-1	PC-90	440-103983-2	Water	20150309		Stage 2B				X			
440-103983-1	PC-91	440-103983-3	Water	20150309		Stage 2B				X			
440-103983-1	PC-58	440-103983-4	Water	20150309		Stage 2B				X			
440-103983-1	PC-56	440-103983-5	Water	20150309		Stage 2B				X			
440-103983-1	PC-60	440-103983-6	Water	20150309		Stage 2B				X			
440-103983-1	PC-59	440-103983-7	Water	20150309		Stage 2B				X			
440-103983-1	PC-62	440-103983-8	Water	20150309		Stage 2B				X			
440-104247-1	PC-55	440-104247-1	Water	20150311		Stage 4				X			
440-104247-1	PC-55DUP	440-104247-1DUP	Water	20150311	DUP	Stage 4				X			
440-104247-1	PC-68	440-104247-2	Water	20150311		Stage 4				X			
440-104247-1	PC-86	440-104247-3	Water	20150311		Stage 4				X			
440-104247-1	PC-18	440-104247-4	Water	20150311		Stage 4				X			
440-104247-1	ARP-1	440-104247-5	Water	20150311		Stage 4				X			
440-104247-1	M-83	440-104247-6	Water	20150311		Stage 4				X			
440-104247-1	PC-103	440-104247-7	Water	20150311		Stage 4				X			
440-104247-1	PC-98R	440-104247-8	Water	20150311		Stage 4				X			
440-104247-1	ARP-2A	440-104247-9	Water	20150311		Stage 4				X			
440-104247-1	ARP-3A	440-104247-10	Water	20150311		Stage 4				X			
440-104247-1	MW-K4	440-104247-11	Water	20150311		Stage 4				X			
440-104247-1	MW-K4DUP	440-104247-11DUP	Water	20150311	DUP	Stage 4				X			
440-104247-1	ARP-4A	440-104247-12	Water	20150311		Stage 4				X			
440-104247-1	ARP-5A	440-104247-13	Water	20150311		Stage 4				X			
440-104247-1	ARP-6B	440-104247-14	Water	20150311		Stage 4				X			
440-104381-1	PC-101R	440-104381-1	Water	20150312		Stage 2B				X			
440-104381-1	ARP-7	440-104381-2	Water	20150312		Stage 2B				X			
440-104381-1	PC-53	440-104381-3	Water	20150312		Stage 2B				X			
440-104381-1	MW-K5	440-104381-4	Water	20150312		Stage 2B				X			

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-104381-1	PC-122	440-104381-5	Water	20150312		Stage 2B				X			
440-104381-1	MEB-1	440-104381-6	Water	20150312	EB	Stage 2B							
440-106313-1	PC-118	440-106313-1	Water	20150406		Stage 2B				X			
440-106313-1	PC-118DUP	440-106313-1DUP	Water	20150406	DUP	Stage 2B				X			
440-106313-1	PC-119	440-106313-2	Water	20150406		Stage 2B				X			
440-106313-1	PC-120	440-106313-3	Water	20150406		Stage 2B				X			
440-106313-1	PC-121	440-106313-4	Water	20150406		Stage 2B				X			
440-106313-1	PC-133	440-106313-5	Water	20150406		Stage 2B				X			
440-106313-1	PC-150	440-106313-6	Water	20150406		Stage 2B				X			
440-106482-1	ART-1	440-106482-1	Water	20150406		Stage 2B				X			
440-106482-1	ART-1DUP	440-106482-1DUP	Water	20150406	DUP	Stage 2B				X			
440-106482-1	ART-2	440-106482-2	Water	20150406		Stage 2B				X			
440-106482-1	ART-3	440-106482-3	Water	20150406		Stage 2B				X			
440-106482-1	ART-4	440-106482-4	Water	20150406		Stage 2B				X			
440-106482-1	ART-6	440-106482-5	Water	20150406		Stage 2B				X			
440-106482-1	ART-7B	440-106482-6	Water	20150406		Stage 2B				X			
440-106482-1	ART-8	440-106482-7	Water	20150406		Stage 2B				X			
440-106482-1	ART-9	440-106482-8	Water	20150406		Stage 2B				X			
440-106482-1	PC-99R2/R3	440-106482-9	Water	20150406		Stage 2B				X			
440-106482-1	PC-115R	440-106482-10	Water	20150406		Stage 2B				X			
440-106482-1	PC-116R	440-106482-11	Water	20150406		Stage 2B				X			
440-106482-1	PC-116RDUP	440-106482-11DUP	Water	20150406	DUP	Stage 2B				X			
440-106482-1	PC-117	440-106482-12	Water	20150406		Stage 2B				X			
440-107316-1	M-83	440-107316-1	Water	20150416		Stage 2B				X			
440-107316-1	PC-97	440-107316-2	Water	20150416		Stage 2B				X			
440-107316-1	PC-90	440-107316-3	Water	20150416		Stage 2B				X			
440-107316-1	PC-91	440-107316-4	Water	20150416		Stage 2B				X			
440-107316-1	PC-58	440-107316-5	Water	20150416		Stage 2B				X			
440-107316-1	PC-56	440-107316-6	Water	20150416		Stage 2B				X			
440-107316-1	PC-60	440-107316-7	Water	20150416		Stage 2B				X			
440-107316-1	PC-59	440-107316-8	Water	20150416		Stage 2B				X			
440-107316-1	PC-62	440-107316-9	Water	20150416		Stage 2B				X			
440-107316-1	PC-68	440-107316-10	Water	20150416		Stage 2B				X			
440-107316-1	PC-86	440-107316-11	Water	20150416		Stage 2B				X			
440-107507-1	PC-18	440-107507-1	Water	20150417		Stage 2B				X			
440-107507-1	PC-18DUP	440-107507-1DUP	Water	20150417	DUP	Stage 2B				X			

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-107507-1	PC-55	440-107507-2	Water	20150417		Stage 2B				X			
440-107507-1	ARP-1	440-107507-3	Water	20150417		Stage 2B				X			
440-107507-1	PC-122	440-107507-4	Water	20150417		Stage 2B				X			
440-107507-1	PC-53	440-107507-5	Water	20150417		Stage 2B				X			
440-107507-1	MW-K5	440-107507-6	Water	20150417		Stage 2B				X			
440-107507-1	ARP-7	440-107507-7	Water	20150417		Stage 2B				X			
440-107507-1	ARP-6B	440-107507-8	Water	20150417		Stage 2B				X			
440-107507-1	ARP-5A	440-107507-9	Water	20150417		Stage 2B				X			
440-107507-1	MEB-1	440-107507-10	Water	20150417	EB	Stage 2B							
440-107507-1	ARP-4A	440-107507-11	Water	20150417		Stage 2B				X			
440-107831-1	PC-103	440-107831-1	Water	20150421		Stage 2B				X			
440-107831-1	PC-98R	440-107831-2	Water	20150421		Stage 2B				X			
440-107831-1	ARP-2A	440-107831-3	Water	20150421		Stage 2B				X			
440-107831-1	ARP-3A	440-107831-4	Water	20150421		Stage 2B				X			
440-107831-1	MW-K4	440-107831-5	Water	20150421		Stage 2B				X			
440-107831-1	PC-101R	440-107831-6	Water	20150421		Stage 2B				X			
440-108677-1	ART-1	440-108677-1	Water	20150504		Stage 2B				X	X		
440-108677-1	ART-1DUP	440-108677-1DUP	Water	20150504	DUP	Stage 2B					X		
440-108677-1	ART-2	440-108677-2	Water	20150504		Stage 2B				X	X		
440-108677-1	ART-3	440-108677-3	Water	20150504		Stage 2B				X	X		
440-108677-1	ART-4	440-108677-4	Water	20150504		Stage 2B				X	X		
440-108677-1	ART-4MS	440-108677-4MS	Water	20150504	MS	Stage 2B							
440-108677-1	ART-4MSD	440-108677-4MSD	Water	20150504	MSD	Stage 2B							
440-108677-1	ART-6	440-108677-5	Water	20150504		Stage 2B				X	X		
440-108677-1	ART-7A	440-108677-6	Water	20150504		Stage 2B				X	X		
440-108677-1	ART-8	440-108677-7	Water	20150504		Stage 2B				X	X		
440-108677-1	ART-9	440-108677-8	Water	20150504		Stage 2B				X	X		
440-108677-1	PC-99R2/R3	440-108677-9	Water	20150504		Stage 2B				X	X		
440-108677-1	PC-115R	440-108677-10	Water	20150504		Stage 2B				X	X		
440-108677-1	PC-115RDUP	440-108677-10DUP	Water	20150504	DUP	Stage 2B				X	X		
440-108677-1	PC-116R	440-108677-11	Water	20150504		Stage 2B				X	X		
440-108677-1	PC-117	440-108677-12	Water	20150504		Stage 2B				X	X		
440-108677-1	PC-118	440-108677-13	Water	20150504		Stage 2B				X	X		
440-108677-1	PC-119	440-108677-14	Water	20150504		Stage 2B				X	X		
440-108677-1	PC-120	440-108677-15	Water	20150504		Stage 2B				X	X		
440-108677-1	PC-121	440-108677-16	Water	20150504		Stage 2B				X	X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-108677-1	PC-133	440-108677-17	Water	20150504		Stage 2B				X	X		
440-108677-1	PC-150	440-108677-18	Water	20150504		Stage 2B				X	X		
440-108677-1	ART-7B	440-108677-19	Water	20150504		Stage 2B				X	X		
440-108677-1	ART-7BMS	440-108677-19MS	Water	20150504	MS	Stage 2B							
440-108677-1	ART-7BMSD	440-108677-19MSD	Water	20150504	MSD	Stage 2B							
440-108680-1	I-O	440-108680-1	Water	20150504		Stage 2B				X	X		
440-108680-1	I-ODUP	440-108680-1DUP	Water	20150504	DUP	Stage 2B					X		
440-108680-1	I-W	440-108680-2	Water	20150504		Stage 2B				X	X		
440-108680-1	I-P	440-108680-3	Water	20150504		Stage 2B				X	X		
440-108680-1	I-H	440-108680-4	Water	20150504		Stage 2B				X	X		
440-108680-1	I-U	440-108680-5	Water	20150504		Stage 2B				X	X		
440-108680-1	I-T	440-108680-6	Water	20150504		Stage 2B				X	X		
440-108680-1	I-TDUP	440-108680-6DUP	Water	20150504	DUP	Stage 2B				X			
440-108680-1	I-G	440-108680-7	Water	20150504		Stage 2B				X	X		
440-108680-1	I-Q	440-108680-8	Water	20150504		Stage 2B				X	X		
440-108680-1	I-F	440-108680-9	Water	20150504		Stage 2B				X	X		
440-108680-1	I-X	440-108680-10	Water	20150504		Stage 2B				X	X		
440-108680-1	I-XDUP	440-108680-10DUP	Water	20150504	DUP	Stage 2B					X		
440-108680-1	I-XMS	440-108680-10MS	Water	20150504	MS	Stage 2B							
440-108680-1	I-XMSD	440-108680-10MSD	Water	20150504	MSD	Stage 2B							
440-108680-1	I-N	440-108680-11	Water	20150504		Stage 2B				X	X		
440-108680-1	I-E	440-108680-12	Water	20150504		Stage 2B				X	X		
440-108680-1	I-M	440-108680-13	Water	20150504		Stage 2B				X	X		
440-108680-1	I-D	440-108680-14	Water	20150504		Stage 2B				X	X		
440-108680-1	I-C	440-108680-15	Water	20150504		Stage 2B				X	X		
440-108680-1	I-S	440-108680-16	Water	20150504		Stage 2B				X	X		
440-108680-1	I-SDUP	440-108680-16DUP	Water	20150504	DUP	Stage 2B				X			
440-108680-1	I-L	440-108680-17	Water	20150504		Stage 2B				X	X		
440-108680-1	I-Y	440-108680-18	Water	20150504		Stage 2B				X	X		
440-108680-1	I-R	440-108680-19	Water	20150504		Stage 2B				X	X		
440-108680-1	I-B	440-108680-20	Water	20150504		Stage 2B				X	X		
440-108680-1	I-BMS	440-108680-20MS	Water	20150504	MS	Stage 2B							
440-108680-1	I-BMSD	440-108680-20MSD	Water	20150504	MSD	Stage 2B							
440-108680-1	I-AB	440-108680-21	Water	20150504		Stage 2B				X	X		
440-108680-1	I-ABDUP	440-108680-21DUP	Water	20150504	DUP	Stage 2B					X		
440-108680-1	I-AA	440-108680-22	Water	20150504		Stage 2B				X	X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-108680-1	I-AR	440-108680-23	Water	20150504		Stage 2B				X	X		
440-108808-1	PC-123	440-108808-1	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-123DUP	440-108808-1DUP	Water	20150505	DUP	Stage 2B				X			
440-108808-1	PC-123MS	440-108808-1MS	Water	20150505	MS	Stage 2B							
440-108808-1	PC-123MSD	440-108808-1MSD	Water	20150505	MSD	Stage 2B							
440-108808-1	PC-128	440-108808-2	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-129	440-108808-3	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-130	440-108808-4	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-50	440-108808-5	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-132	440-108808-6	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-124	440-108808-7	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-124DUP	440-108808-7DUP	Water	20150505	DUP	Stage 2B					X		
440-108808-1	PC-125	440-108808-8	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-126	440-108808-9	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-24	440-108808-10	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-127	440-108808-11	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-127DUP	440-108808-11DUP	Water	20150505	DUP	Stage 2B				X			
440-108808-1	EB-1	440-108808-12	Water	20150505	EB	Stage 2B				X	X		
440-108808-1	PC-77	440-108808-13	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-74	440-108808-14	Water	20150505		Stage 2B				X	X		
440-108808-1	PC-96	440-108808-15	Water	20150505		Stage 2B				X	X		
440-108986-1	PC-131	440-108986-1	Water	20150506		Stage 2B				X	X		
440-108986-1	PC-82	440-108986-2	Water	20150506		Stage 2B				X	X		
440-108986-1	PC-82MS	440-108986-2MS	Water	20150506	MS	Stage 2B							
440-108986-1	PC-82MSD	440-108986-2MSD	Water	20150506	MSD	Stage 2B							
440-108986-1	PC-79	440-108986-3	Water	20150506		Stage 2B				X	X		
440-108986-1	PC-110	440-108986-4	Water	20150506		Stage 2B				X	X		
440-108986-1	PC-108	440-108986-5	Water	20150506		Stage 2B				X	X		
440-108986-1	HM-2	440-108986-6	Water	20150506		Stage 2B				X	X		
440-108986-1	HMW-15	440-108986-7	Water	20150506		Stage 2B				X	X		
440-108986-1	HMW-15DUP	440-108986-7DUP	Water	20150506	DUP	Stage 2B					X		
440-108986-1	HMW-14	440-108986-8	Water	20150506		Stage 2B				X	X		
440-108986-1	EB-2	440-108986-9	Water	20150506	EB	Stage 2B				X	X		
440-108986-1	EB-2DUP	440-108986-9DUP	Water	20150506	DUP	Stage 2B				X			
440-109155-1	HMW-13	440-109155-1	Water	20150507		Stage 2B				X	X		
440-109155-1	HMW-13DUP	440-109155-1DUP	Water	20150507	DUP	Stage 2B					X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-109155-1	PC-134A	440-109155-2	Water	20150507		Stage 2B				X	X		
440-109155-1	PC-135A	440-109155-3	Water	20150507		Stage 2B				X	X		
440-109155-1	M-65	440-109155-4	Water	20150507		Stage 2B				X	X		
440-109155-1	EB-03	440-109155-5	Water	20150507	EB	Stage 2B				X	X		
440-109155-1	EB-03MS	440-109155-5MS	Water	20150507	MS	Stage 2B							
440-109155-1	EB-03MSD	440-109155-5MSD	Water	20150507	MSD	Stage 2B							
440-109318-1	M-140	440-109318-1	Water	20150508		Stage 2B				X	X		
440-109318-1	M-140DUP	440-109318-1DUP	Water	20150508	DUP	Stage 2B					X		
440-109318-1	M-64	440-109318-2	Water	20150508		Stage 2B				X	X		
440-109318-1	M-66	440-109318-3	Water	20150508	FD5	Stage 2B				X	X		
440-109318-1	M-79	440-109318-4	Water	20150508		Stage 2B				X	X		
440-109318-1	M-69	440-109318-5	Water	20150508		Stage 2B				X	X		
440-109318-1	M-136	440-109318-6	Water	20150508		Stage 2B				X	X		
440-109318-1	M-136MS	440-109318-6MS	Water	20150508	MS	Stage 2B							
440-109318-1	M-136MSD	440-109318-6MSD	Water	20150508	MSD	Stage 2B							
440-109318-1	M-135	440-109318-7	Water	20150508		Stage 2B				X	X		
440-109318-1	M-134	440-109318-8	Water	20150508		Stage 2B				X	X		
440-109318-1	M-131	440-109318-9	Water	20150508		Stage 2B				X	X		
440-109318-1	M-57A	440-109318-10	Water	20150508		Stage 2B				X	X		
440-109318-1	M-57ADUP	440-109318-10DUP	Water	20150508	DUP	Stage 2B					X		
440-109318-1	M-126	440-109318-11	Water	20150508		Stage 2B				X	X		
440-109318-1	DUP-1	440-109318-12	Water	20150508	FD5	Stage 2B				X	X		
440-109318-1	EB-4	440-109318-13	Water	20150508	EB	Stage 2B				X	X		
440-109318-1	FB-1	440-109318-14	Water	20150508	FB	Stage 2B				X	X		
440-109936-1	PC-97	440-109936-1	Water	20150514		Stage 4				X	X		
440-109936-1	PC-97DUP	440-109936-1DUP	Water	20150514	DUP	Stage 4				X			
440-109936-1	PC-90	440-109936-2	Water	20150514		Stage 4				X	X		
440-109936-1	PC-91	440-109936-3	Water	20150514		Stage 4				X	X		
440-109936-1	PC-92	440-109936-4	Water	20150514		Stage 4				X	X		
440-109936-1	PC-94	440-109936-5	Water	20150514		Stage 4				X	X		
440-109936-1	PC-58	440-109936-6	Water	20150514		Stage 4				X	X		
440-109936-1	PC-56	440-109936-7	Water	20150514		Stage 4				X	X		
440-109936-1	EB-8	440-109936-8	Water	20150514	EB	Stage 4				X	X		
440-109936-1	PC-60	440-109936-9	Water	20150514		Stage 4				X	X		
440-109936-1	PC-59	440-109936-10	Water	20150514		Stage 4				X	X		
440-109936-1	PC-59DUP	440-109936-10DUP	Water	20150514	DUP	Stage 4					X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-110425-1	TR-1	440-110425-1	Water	20150518		Stage 2B				X	X		
440-110425-1	TR-1MS	440-110425-1MS	Water	20150518	MS	Stage 2B							
440-110425-1	TR-1MSD	440-110425-1MSD	Water	20150518	MSD	Stage 2B							
440-110425-1	TR-4	440-110425-2	Water	20150518		Stage 2B				X	X		
440-110425-1	TR-3	440-110425-3	Water	20150518		Stage 2B				X	X		
440-110425-1	TR-5	440-110425-4	Water	20150518		Stage 2B				X	X		
440-110425-1	TR-5DUP	440-110425-4DUP	Water	20150518	DUP	Stage 2B					X		
440-110425-1	TR-6	440-110425-5	Water	20150518		Stage 2B				X	X		
440-110425-1	TR-7	440-110425-6	Water	20150518		Stage 2B				X	X		
440-110520-1	PC-62	440-110520-1	Water	20150519		Stage 2B				X	X		
440-110520-1	PC-62DUP	440-110520-1DUP	Water	20150519	DUP	Stage 2B				X			
440-110520-1	PC-62MS	440-110520-1MS	Water	20150519	MS	Stage 2B							
440-110520-1	PC-62MSD	440-110520-1MSD	Water	20150519	MSD	Stage 2B							
440-110520-1	PC-68	440-110520-2	Water	20150519		Stage 2B				X	X		
440-110520-1	PC-86	440-110520-3	Water	20150519		Stage 2B				X	X		
440-110520-1	PC-86MS	440-110520-3MS	Water	20150519	MS	Stage 2B							
440-110520-1	PC-86MSD	440-110520-3MSD	Water	20150519	MSD	Stage 2B							
440-110520-1	PC-122	440-110520-4	Water	20150519		Stage 2B				X	X		
440-110520-1	PC-53	440-110520-5	Water	20150519		Stage 2B				X	X		
440-110520-1	MW-K5	440-110520-6	Water	20150519		Stage 2B				X	X		
440-110520-1	ARP-7	440-110520-7	Water	20150519		Stage 2B				X	X		
440-110520-1	ARP-6B	440-110520-8	Water	20150519		Stage 2B				X	X		
440-110520-1	ARP-5A	440-110520-9	Water	20150519		Stage 2B				X	X		
440-110520-1	ARP-5ADUP	440-110520-9DUP	Water	20150519	DUP	Stage 2B					X		
440-110520-1	ARP-4A	440-110520-10	Water	20150519		Stage 2B				X	X		
440-110520-1	EB-9	440-110520-11	Water	20150519	EB	Stage 2B				X	X		
440-110520-1	EB-9MS	440-110520-11MS	Water	20150519	MS	Stage 2B							
440-110520-1	EB-9MSD	440-110520-11MSD	Water	20150519	MSD	Stage 2B							
440-110520-1	MW-K4	440-110520-12	Water	20150519		Stage 2B				X	X		
440-110520-1	MW-K4DUP	440-110520-12DUP	Water	20150519	DUP	Stage 2B				X			
440-110520-1	MW-K4MS	440-110520-12MS	Water	20150519	MS	Stage 2B							
440-110520-1	MW-K4MSD	440-110520-12MSD	Water	20150519	MSD	Stage 2B							
440-110520-1	ARP-3A	440-110520-13	Water	20150519		Stage 2B				X	X		
440-110520-1	ARP-2A	440-110520-14	Water	20150519		Stage 2B				X	X		
440-110604-1	TR-8	440-110604-1	Water	20150519		Stage 2B				X	X		
440-110604-1	TR-8DUP	440-110604-1DUP	Water	20150519	DUP	Stage 2B				X	X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-110604-1	TR-8MS	440-110604-1MS	Water	20150519	MS	Stage 2B							
440-110604-1	TR-8MSD	440-110604-1MSD	Water	20150519	MSD	Stage 2B							
440-110604-1	M-120	440-110604-2	Water	20150519		Stage 2B				X	X		
440-110604-1	M-118	440-110604-3	Water	20150519		Stage 2B				X	X		
440-110604-1	M-121	440-110604-4	Water	20150519		Stage 2B				X	X		
440-110670-1	PC-144	440-110670-1	Water	20150520	FD6	Stage 2B				X	X		
440-110670-1	PC-144MS	440-110670-1MS	Water	20150520	MS	Stage 2B							
440-110670-1	PC-144MSD	440-110670-1MSD	Water	20150520	MSD	Stage 2B							
440-110670-1	PC-101R	440-110670-2	Water	20150520		Stage 2B				X	X		
440-110670-1	PC-101RDUP	440-110670-2DUP	Water	20150520	DUP	Stage 2B				X			
440-110670-1	PC-103	440-110670-3	Water	20150520		Stage 2B				X	X		
440-110670-1	PC-98R	440-110670-4	Water	20150520		Stage 2B				X	X		
440-110670-1	PC-145	440-110670-5	Water	20150520		Stage 2B				X	X		
440-110670-1	PC-137	440-110670-6	Water	20150520		Stage 2B				X	X		
440-110670-1	PC-136	440-110670-7	Water	20150520		Stage 2B				X	X		
440-110670-1	PC-2	440-110670-8	Water	20150520		Stage 2B				X	X		
440-110670-1	PC-4	440-110670-9	Water	20150520		Stage 2B				X	X		
440-110670-1	HMW-16	440-110670-10	Water	20150520		Stage 2B				X	X		
440-110670-1	EB-10	440-110670-11	Water	20150520	EB	Stage 2B				X	X		
440-110670-1	EB-10MS	440-110670-11MS	Water	20150520	MS	Stage 2B							
440-110670-1	EB-10MSD	440-110670-11MSD	Water	20150520	MSD	Stage 2B							
440-110670-1	DUP-1	440-110670-12	Water	20150520	FD6	Stage 2B				X	X		
440-110670-1	DUP-1DUP	440-110670-12DUP	Water	20150520	DUP	Stage 2B				X	X		
440-110673-1	M-150	440-110673-1	Water	20150520		Stage 2B				X	X		
440-110673-1	M-150DUP	440-110673-1DUP	Water	20150520	DUP	Stage 2B				X	X		
440-110673-1	M-150MS	440-110673-1MS	Water	20150520	MS	Stage 2B							
440-110673-1	M-150MSD	440-110673-1MSD	Water	20150520	MSD	Stage 2B							
440-110673-1	M-154	440-110673-2	Water	20150520		Stage 2B				X	X		
440-110673-1	M-161	440-110673-3	Water	20150520		Stage 2B				X	X		
440-110673-1	M-162	440-110673-4	Water	20150520		Stage 2B				X	X		
440-110673-1	M-163	440-110673-5	Water	20150520		Stage 2B				X	X		
440-110673-1	M-164	440-110673-6	Water	20150520		Stage 2B				X	X		
440-110832-1	PC-148	440-110832-1	Water	20150521	FD7	Stage 2B				X	X		
440-110832-1	PC-148DUP	440-110832-1DUP	Water	20150521	DUP	Stage 2B				X	X		
440-110832-1	PC-149	440-110832-2	Water	20150521		Stage 2B				X	X		
440-110832-1	PC-143	440-110832-3	Water	20150521		Stage 2B				X	X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-110832-1	M-70	440-110832-4	Water	20150521		Stage 2B				X	X		
440-110832-1	M-71	440-110832-5	Water	20150521		Stage 2B				X	X		
440-110832-1	M-71MS	440-110832-5MS	Water	20150521	MS	Stage 2B							
440-110832-1	M-71MSD	440-110832-5MSD	Water	20150521	MSD	Stage 2B							
440-110832-1	M-72	440-110832-6	Water	20150521		Stage 2B				X	X		
440-110832-1	M-22A	440-110832-7	Water	20150521		Stage 2B				X	X		
440-110832-1	M-38	440-110832-8	Water	20150521		Stage 2B				X	X		
440-110832-1	EB-6	440-110832-9	Water	20150521	EB	Stage 2B				X	X		
440-110832-1	DUP-2	440-110832-10	Water	20150521	FD7	Stage 2B				X	X		
440-110834-1	TR-2	440-110834-1	Water	20150521		Stage 2B				X	X		
440-110834-1	TR-2DUP	440-110834-1DUP	Water	20150521	DUP	Stage 2B				X			
440-110834-1	TR-11	440-110834-2	Water	20150521		Stage 2B				X	X		
440-110834-1	TR-12	440-110834-3	Water	20150521		Stage 2B				X	X		
440-110834-1	M-152	440-110834-4	Water	20150521		Stage 2B				X	X		
440-110834-1	M-156	440-110834-5	Water	20150521		Stage 2B				X	X		
440-110834-1	M-156MS	440-110834-5MS	Water	20150521	MS	Stage 2B							
440-110834-1	M-156MSD	440-110834-5MSD	Water	20150521	MSD	Stage 2B							
440-110834-1	E. BLANK	440-110834-6	Water	20150521	EB	Stage 2B				X	X		
440-110834-1	E. BLANKDUP	440-110834-6DUP	Water	20150521	DUP	Stage 2B					X		
440-110915-1	M-5A	440-110915-1	Water	20150522		Stage 2B	X		X	X	X	X	X
440-110915-1	M-5ADUP	440-110915-1DUP	Water	20150522	DUP	Stage 2B			X	X	X		
440-110915-1	M-5AMS	440-110915-1MS	Water	20150522	MS	Stage 2B	X						
440-110915-1	M-5AMSD	440-110915-1MSD	Water	20150522	MSD	Stage 2B	X						
440-110915-1	M-7B	440-110915-2	Water	20150522		Stage 2B	X		X	X	X	X	X
440-110962-1	M-99	440-110962-1	Water	20150522		Stage 2B				X	X		
440-110962-1	M-14A	440-110962-2	Water	20150522		Stage 2B				X	X		
440-110962-1	MW-16	440-110962-3	Water	20150522		Stage 2B				X	X		
440-110962-1	MW-16MS	440-110962-3MS	Water	20150522	MS	Stage 2B							
440-110962-1	MW-16MSD	440-110962-3MSD	Water	20150522	MSD	Stage 2B							
440-110962-1	M-25	440-110962-4	Water	20150522	FD8	Stage 2B				X	X		
440-110962-1	M-25DUP	440-110962-4DUP	Water	20150522	DUP	Stage 2B				X	X		
440-110962-1	M-37	440-110962-5	Water	20150522		Stage 2B				X	X		
440-110962-1	M-92	440-110962-6	Water	20150522		Stage 2B				X	X		
440-110962-1	M-97	440-110962-7	Water	20150522		Stage 2B				X	X		
440-110962-1	DUP-3	440-110962-8	Water	20150522	FD8	Stage 2B				X	X		
440-110962-1	EB-7	440-110962-9	Water	20150522	EB	Stage 2B				X	X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-111099-1	M-155	440-111099-1	Water	20150526		Stage 2B				X	X		
440-111099-1	M-151	440-111099-2	Water	20150526		Stage 2B				X	X		
440-111099-1	M-151DUP	440-111099-2DUP	Water	20150526	DUP	Stage 2B				X			
440-111099-1	M-181	440-111099-3	Water	20150526		Stage 2B				X	X		
440-111099-1	M-182	440-111099-4	Water	20150526		Stage 2B				X	X		
440-111099-1	M-165	440-111099-5	Water	20150526		Stage 2B				X	X		
440-111099-1	M-186	440-111099-6	Water	20150526		Stage 2B				X	X		
440-111099-1	M-153	440-111099-7	Water	20150526		Stage 2B				X	X		
440-111099-1	M-153DUP	440-111099-7DUP	Water	20150526	DUP	Stage 2B					X		
440-111099-1	M-149	440-111099-8	Water	20150526		Stage 2B				X	X		
440-111099-1	M-117	440-111099-9	Water	20150526		Stage 2B				X	X		
440-111102-1	PC-54	440-111102-1	Water	20150526		Stage 2B				X	X		
440-111102-1	PC-54DUP	440-111102-1DUP	Water	20150526	DUP	Stage 2B				X	X		
440-111102-1	M-48A	440-111102-2	Water	20150526		Stage 2B				X	X		
440-111102-1	PC-21A	440-111102-3	Water	20150526		Stage 2B				X	X		
440-111102-1	PC-71	440-111102-4	Water	20150526		Stage 2B				X	X		
440-111102-1	PC-72	440-111102-5	Water	20150526		Stage 2B				X	X		
440-111102-1	PC-73	440-111102-6	Water	20150526		Stage 2B				X	X		
440-111102-1	PC-40	440-111102-7	Water	20150526		Stage 2B				X	X		
440-111102-1	H-58A	440-111102-8	Water	20150526		Stage 2B				X	X		
440-111102-1	H-58AMS	440-111102-8MS	Water	20150526	MS	Stage 2B							
440-111102-1	H-58AMSD	440-111102-8MSD	Water	20150526	MSD	Stage 2B							
440-111102-1	M-95	440-111102-9	Water	20150526		Stage 2B				X	X		
440-111102-1	M-44	440-111102-10	Water	20150526	FD9	Stage 2B				X	X		
440-111102-1	DUP-4	440-111102-11	Water	20150526	FD9	Stage 2B				X	X		
440-111102-1	DUP-4DUP	440-111102-11DUP	Water	20150526	DUP	Stage 2B				X			
440-111102-1	EB-5	440-111102-12	Water	20150526	EB	Stage 2B				X	X		
440-111102-1	EB-5DUP	440-111102-12DUP	Water	20150526	DUP	Stage 2B					X		
440-111211-1	PC-55	440-111211-1	Water	20150527		Stage 4				X	X		
440-111211-1	PC-55DUP	440-111211-1DUP	Water	20150527	DUP	Stage 4				X			
440-111211-1	PC-18	440-111211-2	Water	20150527		Stage 4				X	X		
440-111211-1	ARP-1	440-111211-3	Water	20150527		Stage 4				X	X		
440-111211-1	PC-142	440-111211-4	Water	20150527		Stage 4				X	X		
440-111211-1	PC-107	440-111211-5	Water	20150527		Stage 4				X	X		
440-111211-1	PC-37	440-111211-6	Water	20150527		Stage 4				X	X		
440-111211-1	MC-65	440-111211-7	Water	20150527		Stage 4				X	X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-111211-1	MC-7	440-111211-8	Water	20150527		Stage 4				X	X		
440-111211-1	MC-3	440-111211-9	Water	20150527		Stage 4				X	X		
440-111211-1	MC-3DUP	440-111211-9DUP	Water	20150527	DUP	Stage 4					X		
440-111211-1	MC-29	440-111211-10	Water	20150527		Stage 4				X	X		
440-111211-1	MC-69	440-111211-11	Water	20150527		Stage 4				X	X		
440-111211-1	MC-69DUP	440-111211-11DUP	Water	20150527	DUP	Stage 4				X			
440-111211-1	MC-6	440-111211-12	Water	20150527		Stage 4				X	X		
440-111211-1	EB-11	440-111211-13	Water	20150527	EB	Stage 4				X	X		
440-111211-1	EB-11MS	440-111211-13MS	Water	20150527	MS	Stage 4							
440-111211-1	EB-11MSD	440-111211-13MSD	Water	20150527	MSD	Stage 4							
440-111211-1	MC-45	440-111211-14	Water	20150527		Stage 4				X	X		
440-111211-1	FB-2	440-111211-15	Water	20150527	FB	Stage 4				X	X		
440-111211-1	MC-50	440-111211-16	Water	20150527		Stage 4				X	X		
440-111211-1	M-23	440-111211-17	Water	20150527		Stage 4				X	X		
440-111211-1	M-23MS	440-111211-17MS	Water	20150527	MS	Stage 4							
440-111211-1	M-23MSD	440-111211-17MSD	Water	20150527	MSD	Stage 4							
440-111333-1	H-28A	440-111333-1	Water	20150528		Stage 2B	X		X	X	X	X	X
440-111333-1	H-28ADUP	440-111333-1DUP	Water	20150528	DUP	Stage 2B					X		
440-111333-1	M-6A	440-111333-2	Water	20150528		Stage 2B	X		X	X	X	X	X
440-111334-1	MC-93	440-111334-1	Water	20150528		Stage 2B				X	X		
440-111334-1	MC-51	440-111334-2	Water	20150528		Stage 2B				X	X		
440-111334-1	MC-53	440-111334-3	Water	20150528		Stage 2B				X	X		
440-111334-1	MC-97	440-111334-4	Water	20150528		Stage 2B				X	X		
440-111334-1	PC-64	440-111334-5	Water	20150528		Stage 2B				X	X		
440-111334-1	PC-65	440-111334-6	Water	20150528		Stage 2B				X	X		
440-111334-1	PC-65DUP	440-111334-6DUP	Water	20150528	DUP	Stage 2B				X			
440-111334-1	PC-67	440-111334-7	Water	20150528		Stage 2B				X	X		
440-111334-1	EB-13	440-111334-8	Water	20150528	EB	Stage 2B				X	X		
440-111334-1	EB-13DUP	440-111334-8DUP	Water	20150528	DUP	Stage 2B					X		
440-111334-1	EB-13MS	440-111334-8MS	Water	20150528	MS	Stage 2B							
440-111334-1	EB-13MSD	440-111334-8MSD	Water	20150528	MSD	Stage 2B							
440-111334-1	PC-31	440-111334-9	Water	20150528		Stage 2B				X	X		
440-111334-1	PC-28	440-111334-10	Water	20150528		Stage 2B				X	X		
440-111455-1	M-81A	440-111455-1	Water	20150529		Stage 2B				X	X		
440-111455-1	M-81ADUP	440-111455-1DUP	Water	20150529	DUP	Stage 2B				X			
440-111455-1	M-80	440-111455-2	Water	20150529		Stage 2B				X	X		

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-111455-1	M-83	440-111455-3	Water	20150529		Stage 2B				X	X		
440-111455-1	I-V	440-111455-4	Water	20150529		Stage 2B				X	X		
440-111455-1	I-VDUP	440-111455-4DUP	Water	20150529	DUP	Stage 2B					X		
440-111455-1	I-I	440-111455-5	Water	20150529		Stage 2B				X	X		
440-111455-1	I-IMS	440-111455-5MS	Water	20150529	MS	Stage 2B							
440-111455-1	I-IMSD	440-111455-5MSD	Water	20150529	MSD	Stage 2B							
440-111455-1	I-Z	440-111455-6	Water	20150529		Stage 2B				X	X		
440-111455-1	I-J	440-111455-7	Water	20150529		Stage 2B				X	X		
440-111455-1	I-K	440-111455-8	Water	20150529		Stage 2B				X	X		
440-111455-1	I-AC	440-111455-9	Water	20150529		Stage 2B				X	X		
440-111455-1	I-AD	440-111455-10	Water	20150529		Stage 2B				X	X		
440-111455-1	M-68	440-111455-11	Water	20150529		Stage 2B				X	X		
440-111455-1	M-68DUP	440-111455-11DUP	Water	20150529	DUP	Stage 2B				X			
440-111455-1	M-67	440-111455-12	Water	20150529		Stage 2B				X	X		
440-111455-1	M-73	440-111455-13	Water	20150529		Stage 2B				X	X		
440-111455-1	M-74	440-111455-14	Water	20150529		Stage 2B				X	X		
440-111455-1	M-19	440-111455-15	Water	20150529		Stage 2B				X	X		
440-111455-1	M-19MS	440-111455-15MS	Water	20150529	MS	Stage 2B							
440-111455-1	M-19MSD	440-111455-15MSD	Water	20150529	MSD	Stage 2B							
440-111455-1	M-35	440-111455-16	Water	20150529		Stage 2B				X	X		
440-111455-1	EB-12	440-111455-17	Water	20150529	EB	Stage 2B				X	X		
440-111455-1	EB-12MS	440-111455-17MS	Water	20150529	MS	Stage 2B							
440-111455-1	EB-12MSD	440-111455-17MSD	Water	20150529	MSD	Stage 2B							
440-111455-1	M-2A	440-111455-18	Water	20150529		Stage 2B				X	X		
440-111455-1	M-2ADUP	440-111455-18DUP	Water	20150529	DUP	Stage 2B					X		
440-111455-1	M-75	440-111455-19	Water	20150529		Stage 2B				X	X		
440-111455-1	M-76	440-111455-20	Water	20150529		Stage 2B				X	X		
440-111455-1	M-115	440-111455-21	Water	20150529		Stage 2B				X	X		
440-111455-1	M-115DUP	440-111455-21DUP	Water	20150529	DUP	Stage 2B				X			
440-111577-1	ART-1	440-111577-1	Water	20150601		Stage 2B				X			
440-111577-1	ART-1DUP	440-111577-1DUP	Water	20150601	DUP	Stage 2B				X			
440-111577-1	ART-2	440-111577-2	Water	20150601		Stage 2B				X			
440-111577-1	ART-3	440-111577-3	Water	20150601		Stage 2B				X			
440-111577-1	ART-4	440-111577-4	Water	20150601		Stage 2B				X			
440-111577-1	ART-6	440-111577-5	Water	20150601		Stage 2B				X			
440-111577-1	ART-7B	440-111577-6	Water	20150601		Stage 2B				X			

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-111577-1	ART-8	440-111577-7	Water	20150601		Stage 2B				X			
440-111577-1	ART-9	440-111577-8	Water	20150601		Stage 2B				X			
440-111577-1	PC-99R2/R3	440-111577-9	Water	20150601		Stage 2B				X			
440-111577-1	PC-115R	440-111577-10	Water	20150601		Stage 2B				X			
440-111577-1	PC-116R	440-111577-11	Water	20150601		Stage 2B				X			
440-111577-1	PC-116RDUP	440-111577-11DUP	Water	20150601	DUP	Stage 2B				X			
440-111577-1	PC-117	440-111577-12	Water	20150601		Stage 2B				X			
440-111577-1	PC-118	440-111577-13	Water	20150601		Stage 2B				X			
440-111577-1	PC-119	440-111577-14	Water	20150601		Stage 2B				X			
440-111577-1	PC-120	440-111577-15	Water	20150601		Stage 2B				X			
440-111577-1	PC-121	440-111577-16	Water	20150601		Stage 2B				X			
440-111577-1	PC-133	440-111577-17	Water	20150601		Stage 2B				X			
440-111577-1	PC-150	440-111577-18	Water	20150601		Stage 2B				X			
440-111754-1	AA-01	440-111754-1	Water	20150602		Stage 2B				X	X		
440-111754-1	AA-01DUP	440-111754-1DUP	Water	20150602	DUP	Stage 2B				X			
440-111754-1	PC-66	440-111754-2	Water	20150602		Stage 2B				X	X		
440-111754-1	PC-66MS	440-111754-2MS	Water	20150602	MS	Stage 2B							
440-111754-1	PC-66MSD	440-111754-2MSD	Water	20150602	MSD	Stage 2B							
440-111754-1	M-144	440-111754-3	Water	20150602		Stage 2B				X	X		
440-111754-1	M-146	440-111754-4	Water	20150602		Stage 2B				X	X		
440-111754-1	M-147	440-111754-5	Water	20150602		Stage 2B				X	X		
440-111754-1	M-142	440-111754-6	Water	20150602		Stage 2B				X	X		
440-111754-1	M-142DUP	440-111754-6DUP	Water	20150602	DUP	Stage 2B					X		
440-111754-1	M-145	440-111754-7	Water	20150602		Stage 2B				X	X		
440-111754-1	M-139	440-111754-8	Water	20150602		Stage 2B				X	X		
440-111754-1	M-141	440-111754-9	Water	20150602		Stage 2B				X	X		
440-111754-1	M-148A	440-111754-10	Water	20150602		Stage 2B				X	X		
440-111754-1	EB-14	440-111754-11	Water	20150602	EB	Stage 2B				X	X		
440-111754-1	EB-14DUP	440-111754-11DUP	Water	20150602	DUP	Stage 2B				X			
440-111754-1	M-52	440-111754-12	Water	20150602		Stage 2B				X	X		
440-111754-1	M-31A	440-111754-13	Water	20150602		Stage 2B				X	X		
440-111754-1	M-31ADUP	440-111754-13DUP	Water	20150602	DUP	Stage 2B					X		
440-111886-1	M-125	440-111886-1	Water	20150603		Stage 2B				X	X		
440-111886-1	M-123	440-111886-2	Water	20150603		Stage 2B				X	X		
440-111886-1	M-123DUP	440-111886-2DUP	Water	20150603	DUP	Stage 2B					X		
440-111886-1	M-123MS	440-111886-2MS	Water	20150603	MS	Stage 2B							

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-111886-1	M-123MSD	440-111886-2MSD	Water	20150603	MSD	Stage 2B							
440-111886-1	M-128	440-111886-3	Water	20150603		Stage 2B				X	X		
440-111886-1	M-124	440-111886-4	Water	20150603	FD10	Stage 2B				X	X		
440-111886-1	M-137	440-111886-5	Water	20150603		Stage 2B				X	X		
440-111886-1	M-138	440-111886-6	Water	20150603		Stage 2B				X	X		
440-111886-1	DUP-5	440-111886-7	Water	20150603	FD10	Stage 2B				X	X		
440-111886-1	DUP-6	440-111886-8	Water	20150603	FD11	Stage 2B				X	X		
440-111886-1	EB-15	440-111886-9	Water	20150603	EB	Stage 2B				X	X		
440-111887-1	M-10	440-111887-1	Water	20150603	FD11	Stage 2B		X		X	X		
440-111887-1	M-10MS	440-111887-1MS	Water	20150603	MS	Stage 2B							
440-111887-1	M-10MSD	440-111887-1MSD	Water	20150603	MSD	Stage 2B							
440-112107-1	M-77	440-112107-1	Water	20150605		Stage 4				X	X		
440-112107-1	M-77DUP	440-112107-1DUP	Water	20150605	DUP	Stage 4				X			
440-112107-1	M-132	440-112107-2	Water	20150605		Stage 4				X	X		
440-112107-1	M-132MS	440-112107-2MS	Water	20150605	MS	Stage 4							
440-112107-1	M-132MSD	440-112107-2MSD	Water	20150605	MSD	Stage 4							
440-112107-1	M-133	440-112107-3	Water	20150605		Stage 4				X	X		
440-112107-1	M-133DUP	440-112107-3DUP	Water	20150605	DUP	Stage 4					X		
440-112107-1	M-21	440-112107-4	Water	20150605		Stage 4				X	X		
440-112107-1	M-13	440-112107-5	Water	20150605		Stage 4				X	X		
440-112107-1	M-13MS	440-112107-5MS	Water	20150605	MS	Stage 4							
440-112107-1	M-13MSD	440-112107-5MSD	Water	20150605	MSD	Stage 4							
440-112107-1	M-12A	440-112107-6	Water	20150605	FD12	Stage 4				X	X		
440-112107-1	M-11	440-112107-7	Water	20150605		Stage 4				X	X		
440-112107-1	EB-16	440-112107-8	Water	20150605	EB	Stage 4				X	X		
440-112107-1	EB-16MS	440-112107-8MS	Water	20150605	MS	Stage 4							
440-112107-1	EB-16MSD	440-112107-8MSD	Water	20150605	MSD	Stage 4							
440-112107-1	DUP-7	440-112107-9	Water	20150605	FD12	Stage 4				X	X		
440-112454-1	PC-55	440-112454-1	Water	20150609		Stage 2B				X			
440-112454-1	PC-98R	440-112454-2	Water	20150609		Stage 2B				X			
440-112626-1	TR-9	440-112626-1	Water	20150610		Stage 2B				X	X		
440-112626-1	TR-10	440-112626-2	Water	20150610		Stage 2B				X	X		
440-113481-1	PC-97	440-113481-1	Water	20150623		Stage 2B				X			
440-113481-1	PC-90	440-113481-2	Water	20150623		Stage 2B				X			
440-113481-1	PC-91	440-113481-3	Water	20150623		Stage 2B				X			
440-113481-1	PC-91DUP	440-113481-3DUP	Water	20150623	DUP	Stage 2B				X			

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-113481-1	PC-58	440-113481-4	Water	20150623		Stage 2B				X			
440-113481-1	PC-56	440-113481-5	Water	20150623		Stage 2B				X			
440-113481-1	PC-60	440-113481-6	Water	20150623		Stage 2B				X			
440-113481-1	PC-59	440-113481-7	Water	20150623		Stage 2B				X			
440-113481-1	PC-62	440-113481-8	Water	20150623		Stage 2B				X			
440-113481-1	PC-68	440-113481-9	Water	20150623		Stage 2B				X			
440-113481-1	PC-86	440-113481-10	Water	20150623		Stage 2B				X			
440-113481-1	PC-18	440-113481-11	Water	20150623		Stage 2B				X			
440-113481-1	ARP-1	440-113481-12	Water	20150623		Stage 2B				X			
440-113481-1	MEB-1	440-113481-13	Water	20150623	EB	Stage 2B							
440-113571-1	PC-122	440-113571-1	Water	20150624		Stage 2B				X			
440-113571-1	PC-122DUP	440-113571-1DUP	Water	20150624	DUP	Stage 2B				X			
440-113571-1	PC-53	440-113571-2	Water	20150624		Stage 2B				X			
440-113571-1	MW-K5	440-113571-3	Water	20150624		Stage 2B				X			
440-113571-1	ARP-7	440-113571-4	Water	20150624		Stage 2B				X			
440-113571-1	ARP-6B	440-113571-5	Water	20150624		Stage 2B				X			
440-113571-1	ARP-5	440-113571-6	Water	20150624		Stage 2B				X			
440-113703-1	ARP-4A	440-113703-1	Water	20150625		Stage 2B				X			
440-113703-1	ARP-4ADUP	440-113703-1DUP	Water	20150625	DUP	Stage 2B				X			
440-113703-1	PC-101R	440-113703-2	Water	20150625		Stage 2B				X			
440-113703-1	MW-K4	440-113703-3	Water	20150625		Stage 2B				X			
440-113703-1	ARP-3A	440-113703-4	Water	20150625		Stage 2B				X			
440-113703-1	ARP-2A	440-113703-5	Water	20150625		Stage 2B				X			
440-113703-1	PC-103	440-113703-6	Water	20150625		Stage 2B				X			
440-113703-1	M-83	440-113703-7	Water	20150625		Stage 2B				X			
440-98184-1	ART-1	440-98184-1	Water	20150105		Stage 2B				X			
440-98184-1	ART-1DUP	440-98184-1DUP	Water	20150105	DUP	Stage 2B				X			
440-98184-1	ART-2	440-98184-2	Water	20150105		Stage 2B				X			
440-98184-1	ART-3	440-98184-3	Water	20150105		Stage 2B				X			
440-98184-1	ART-4	440-98184-4	Water	20150105		Stage 2B				X			
440-98184-1	ART-6	440-98184-5	Water	20150105		Stage 2B				X			
440-98184-1	ARP-7B	440-98184-6	Water	20150105		Stage 2B				X			
440-98184-1	ART-8	440-98184-7	Water	20150105		Stage 2B				X			
440-98184-1	ART-9	440-98184-8	Water	20150105		Stage 2B				X			
440-98184-1	PC-99R2/R3	440-98184-9	Water	20150105		Stage 2B				X			
440-98184-1	PC-115R	440-98184-10	Water	20150105		Stage 2B				X			

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-98184-1	PC-116R	440-98184-11	Water	20150105		Stage 2B				X			
440-98184-1	PC-116RDUP	440-98184-11DUP	Water	20150105	DUP	Stage 2B				X			
440-98184-1	PC-117	440-98184-12	Water	20150105		Stage 2B				X			
440-98184-1	PC-118	440-98184-13	Water	20150105		Stage 2B				X			
440-98184-1	PC-119	440-98184-14	Water	20150105		Stage 2B				X			
440-98184-1	PC-120	440-98184-15	Water	20150105		Stage 2B				X			
440-98184-1	PC-121	440-98184-16	Water	20150105		Stage 2B				X			
440-98184-1	PC-133	440-98184-17	Water	20150105		Stage 2B				X			
440-98184-1	PC-150	440-98184-18	Water	20150105		Stage 2B				X			
440-99068-1	PC-97	440-99068-1	Water	20150113		Stage 2B				X			
440-99068-1	PC-97DUP	440-99068-1DUP	Water	20150113	DUP	Stage 2B				X			
440-99068-1	PC-90	440-99068-2	Water	20150113		Stage 2B				X			
440-99068-1	PC-91	440-99068-3	Water	20150113		Stage 2B				X			
440-99068-1	PC-58	440-99068-4	Water	20150113		Stage 2B				X			
440-99068-1	PC-56	440-99068-5	Water	20150113		Stage 2B				X			
440-99068-1	PC-60	440-99068-6	Water	20150113		Stage 2B				X			
440-99068-1	PC-59	440-99068-7	Water	20150113		Stage 2B				X			
440-99068-1	PC-62	440-99068-8	Water	20150113		Stage 2B				X			
440-99068-1	PC-68	440-99068-9	Water	20150113		Stage 2B				X			
440-99068-1	PC-86	440-99068-10	Water	20150113		Stage 2B				X			
440-99068-1	PC-18	440-99068-11	Water	20150114		Stage 2B				X			
440-99068-1	PC-18DUP	440-99068-11DUP	Water	20150114	DUP	Stage 2B				X			
440-99068-1	ARP-1	440-99068-12	Water	20150114		Stage 2B				X			
440-99068-1	PC-103	440-99068-13	Water	20150114		Stage 2B				X			
440-99068-1	PC-98R	440-99068-14	Water	20150114		Stage 2B				X			
440-99068-1	MEB-1	440-99068-15	Water	20150114	EB	Stage 2B							
440-99068-1	ARP-2A	440-99068-16	Water	20150114		Stage 2B				X			
440-99068-1	ARP-3A	440-99068-17	Water	20150114		Stage 2B				X			
440-99068-1	MW-K4	440-99068-18	Water	20150114		Stage 2B				X			
440-99068-1	ARP-4A	440-99068-19	Water	20150114		Stage 2B				X			
440-99068-1	ARP-5A	440-99068-20	Water	20150114		Stage 2B				X			
440-99129-1	M-83	440-99129-1	Water	20150115		Stage 2B				X			
440-99129-1	PC-53	440-99129-2	Water	20150115		Stage 2B				X			
440-99129-1	MW-K5	440-99129-3	Water	20150115		Stage 2B				X			
440-99129-1	ARP-7	440-99129-4	Water	20150115		Stage 2B				X			
440-99129-1	ARP-6B	440-99129-5	Water	20150115		Stage 2B				X			

Table I. Sample Cross Reference

SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	Phenolics (420.1)	TIN (CALC)	Spec. Cond. (SM2510)	TDS (SM2540C)	pH (SM4500-H+B)	TOC (SM5310C)	TOX (9020B)
440-99129-1	PC-101R	440-99129-6	Water	20150115		Stage 2B				X			
440-99129-1	PC-122	440-99129-7	Water	20150115		Stage 2B				X			
440-99129-1	PC-55	440-99129-8	Water	20150115		Stage 2B				X			

TABLE II

Table IIa. Stage 2B Validation Elements

Quality Control Elements	Stage 2B	
	Metals	**Wet Chemistry**
Sample Receipt & Technical Holding Time	√	√
Initial Calibration (ICAL)	√	√
Initial Calibration Verification (ICV)	√	√
Continuing Calibration Verification (CCV)	√	√
Laboratory Blanks	√	√
Initial Calibration Blank and Continuing Calibration Blank (ICB/CCB)	√	√
Field Blanks	√	√
Inductively Coupled Plasma (ICP) Interference Check Sample	√	**N/A**
Surrogate Spikes	**N/A**	√
Matrix Spike (MS), Matrix Spike Duplicate (MSD)	√	√
Laboratory Duplicate (DUP)	**N/A**	√
Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD)	√	√
Serial Dilution	√	**N/A**
Field Duplicate	√	√
Project Quantitation Limits (QL)	√	√
Multiple Results for One Sample	√	√
Sample Result Verification	**-**	**-**
Overall Data Usability Assessment	√	√

√ = Reviewed for Stage 2B review
N/A = Not applicable to method or not performed during this sampling event
- = Not applicable for Stage 2B review

Table IIb. Stage 4 Validation Elements

Quality Control Elements	Stage 4	
	Metals	**Wet Chemistry**
Sample Receipt & Technical Holding Time	√	√
Initial Calibration (ICAL)	√	√
Initial Calibration Verification (ICV)	√	√
Continuing Calibration Verification (CCV)	√	√
Laboratory Blanks	√	√
Initial Calibration Blank and Continuing Calibration Blank (ICB/CCB)	√	√
Field Blanks	√	√
Inductively Coupled Plasma (ICP) Interference Check Sample	√	**N/A**
Surrogate Spikes	**N/A**	√
Matrix Spike (MS), Matrix Spike Duplicate (MSD)	√	√
Laboratory Duplicate (DUP)	**N/A**	√
Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD)	√	√
Serial Dilution	√	**N/A**
Field Duplicate	√	√
Project Quantitation Limits (QL)	√	√
Multiple Results for One Sample	√	√
Sample Result Verification	√	√
Overall Data Usability Assessment	√	√

√ = Reviewed for Stage 4 review
N/A = Not applicable to method or not performed during this sampling event

TABLE III

Table III. Qualification Codes and Definitions

Reason Code	Explanation
a	qualified due to low abundance (radiochemical activity)
be	qualified due to equipment blank contamination
bf	qualified due to field blank contamination
bl	qualified due to lab blank contamination
bt	qualified due to trip blank contamination
bp	qualified due to pump blank contamination (wells w/o dedicated pumps, when contamination is detected in the Pump Blk)
br	qualified due to filter blank contamination (aqueous Hexavalent Chromium and Dissolved sample fractions)
c	qualified due to calibration problems
cp	qualified due to insufficient ingrowth (radiochemical only)
dc	duel column confirmation %D exceeded
e	concentration exceeded the calibration range
fd	qualified due to field duplicate imprecision
h	qualified due to holding time exceedance
i	qualified due to internal standard areas
k	qualified as Estimated Maximum Possible Concentrations (dioxins and PCB congeners)
l	qualified due to LCS recoveries
ld	qualified due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
m	qualified due to matrix spike recoveries
nb	qualified due to negative lab blank contamination (nondetect results only)
nd	qualified due to non-detected target analyte
o	other
p	qualified as a false positive due to contamination during shipping
pH	sample preservation not within acceptance range
q	qualified due to quantitation problem
s	qualified due to surrogate recoveries
sd	serial dilution did not meet control criteria
sp	detected value reported >SQL <PQL
st	sample receipt temperature exceeded
t	qualified due to elevated helium tracer concentrations
vh	volatile headspace detected in aqueous sample containers submitted for VOC analysis
x	qualified due to low % solids
z	qualified due to ICS results

TABLE IV

Table IV. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Reason Code Definition	Qualification Finding	
440-100474-1	ART-1	20150202	200.7	7440-47-3	Chromium	0.0029	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-100474-1	PC-116R	20150202	200.7	7440-47-3	Chromium	0.0038	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-100474-1	PC-117	20150202	200.7	7440-47-3	Chromium	0.0027	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-100474-1	PC-133	20150202	200.7	7440-47-3	Chromium	0.0031	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-100474-1	PC-99R2/R3	20150202	200.7	7440-47-3	Chromium	0.0026	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-101558-1	PC-60	20150210	200.7	7440-47-3	Chromium	0.0025	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-101929-1	ART-7A	20150213	200.7	7440-47-3	Chromium	1.7		0.0025	0.0050	mg/l	J-	m	Matrix Spike %R	67	%
440-101929-1	PC-55	20150213	200.7	7440-47-3	Chromium	0.0025	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-102689-1	PC-132	20150224	200.7	7440-47-3	Chromium	0.0032	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-108677-1	PC-99R2/R3	20150504	200.7	7440-47-3	Chromium	0.0040	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-109936-1	PC-91	20150514	200.7	7440-47-3	Chromium	0.0028	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-109936-1	PC-97	20150514	200.7	7440-47-3	Chromium	0.0031	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-110520-1	ARP-3A	20150519	200.7	7440-47-3	Chromium	0.0027	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-110670-1	PC-103	20150520	200.7	7440-47-3	Chromium	0.0028	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-110670-1	PC-98R	20150520	200.7	7440-47-3	Chromium	0.020	J	0.013	0.025	mg/l	J	sp	Detect <PQL	--	--
440-110832-1	EB-6	20150521	200.7	7440-47-3	Chromium	0.0041	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-110832-1	PC-143	20150521	200.7	7440-47-3	Chromium	0.0026	J	0.0025	0.0050	mg/l	J	be	Equipment Blank	0.0041	mg/L
440-110915-1	M-5A	20150522	200.7	7440-42-8	Boron	1.8	F1	0.050	0.25	mg/l	J	m	Matrix Spike %R	69/126	%
440-110915-1	M-7B	20150522	200.7	7440-42-8	Boron	3.9		0.050	0.25	mg/l	J	m	Matrix Spike %R	69/126	%
440-110962-1	EB-7	20150522	200.7	7440-47-3	Chromium	0.0048	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-111211-1	ARP-1	20150527	200.7	7440-47-3	Chromium	0.024	J	0.013	0.025	mg/l	J	sp	Detect <PQL	--	--
440-111211-1	MC-65	20150527	200.7	7440-47-3	Chromium	0.020	J	0.013	0.025	mg/l	J	sp	Detect <PQL	--	--
440-111455-1	EB-12	20150529	200.7	7440-47-3	Chromium	0.0027	J	0.0025	0.0050	mg/l	J	sp	Detect <PQL	--	--
440-111754-1	EB-14	20150602	200.7	7440-47-3	Chromium	0.023	J	0.013	0.025	mg/l	J	sp	Detect <PQL	--	--
440-109318-1	EB-4	20150508	218.6	18540-29-9	Chromium, hexavalent	0.25	UH	0.25	1.0	ug/l	R	h	Holding Time	5	Days
440-109318-1	FB-1	20150508	218.6	18540-29-9	Chromium, hexavalent	0.25	UH	0.25	1.0	ug/l	R	h	Holding Time	5	Days
440-111102-1	M-95	20150526	218.6	18540-29-9	Chromium, hexavalent	550	H	2.5	10	ug/l	J-	h	Holding Time	41.9	Hours
440-112107-1	EB-16	20150605	218.6	18540-29-9	Chromium, hexavalent	0.25	UH	0.25	1.0	ug/l	UJ	h	Holding Time	26.17	Hours
440-112107-1	DUP-7	20150605	300.0	14797-55-8	Nitrate as N	14		1.1	2.2	mg/l	J	fd	Field Duplicate Difference	5.0	mg/L
440-112107-1	M-12A	20150605	300.0	14797-55-8	Nitrate as N	9.0		1.1	2.2	mg/l	J	fd	Field Duplicate Difference	5.0	mg/L
440-108986-1	HMW-15	20150506	314.0	14797-73-0	Perchlorate	8.0		0.50	1.0	ug/l	J+	be	Equipment Blank	2.4	ug/L
440-108986-1	PC-82	20150506	314.0	14797-73-0	Perchlorate	13	F1	0.50	1.0	ug/l	J+	m,be	Matrix Spike %R	129/129	%
													Equipment Blank	2.4	ug/L
440-109155-1	PC-134A	20150507	314.0	14797-73-0	Perchlorate	5400		50	100	ug/l	J+	m	Matrix Spike %R	129/129	%
440-110425-1	TR-4	20150518	314.0	14797-73-0	Perchlorate	0.55	J	0.50	1.0	ug/l	J	sp	Detect <PQL	--	--
440-110604-1	M-118	20150519	314.0	14797-73-0	Perchlorate	0.79	J	0.50	1.0	ug/l	J	sp	Detect <PQL	--	--
440-111754-1	AA-01	20150602	SM2540C	TDS	Total Dissolved Solids	4400		50	100	mg/l	J+	be	Equipment Blank	520	mg/L
440-111754-1	M-139	20150602	SM2540C	TDS	Total Dissolved Solids	2800		10	20	mg/l	J+	be	Equipment Blank	520	mg/L
440-111754-1	M-142	20150602	SM2540C	TDS	Total Dissolved Solids	2600		10	20	mg/l	J+	be	Equipment Blank	520	mg/L
440-111754-1	M-144	20150602	SM2540C	TDS	Total Dissolved Solids	4300		50	100	mg/l	J+	be	Equipment Blank	520	mg/L
440-111754-1	M-145	20150602	SM2540C	TDS	Total Dissolved Solids	2900		10	20	mg/l	J+	be	Equipment Blank	520	mg/L
440-111754-1	M-146	20150602	SM2540C	TDS	Total Dissolved Solids	4400		50	100	mg/l	J+	be	Equipment Blank	520	mg/L

Table IV. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Reason Code Definition	Qualification Finding	
440-111754-1	M-147	20150602	SM2540C	TDS	Total Dissolved Solids	4700		50	100	mg/l	J+	be	Equipment Blank	520	mg/L
440-111754-1	M-52	20150602	SM2540C	TDS	Total Dissolved Solids	5000		50	100	mg/l	J+	be	Equipment Blank	520	mg/L
440-111886-1	DUP-5	20150603	SM2540C	TDS	Total Dissolved Solids	3100		25	50	mg/l	J+	be	Equipment Blank	610	mg/L
440-111886-1	DUP-6	20150603	SM2540C	TDS	Total Dissolved Solids	2400		10	20	mg/l	J+	be	Equipment Blank	610	mg/L
440-111886-1	M-124	20150603	SM2540C	TDS	Total Dissolved Solids	3200		25	50	mg/l	J+	be	Equipment Blank	610	mg/L
440-111886-1	M-128	20150603	SM2540C	TDS	Total Dissolved Solids	2500		10	20	mg/l	J+	be	Equipment Blank	610	mg/L
440-111886-1	M-137	20150603	SM2540C	TDS	Total Dissolved Solids	2100		10	20	mg/l	J+	be	Equipment Blank	610	mg/L
440-111886-1	M-138	20150603	SM2540C	TDS	Total Dissolved Solids	2200		10	20	mg/l	J+	be	Equipment Blank	610	mg/L
440-111887-1	M-10	20150603	SM2540C	TDS	Total Dissolved Solids	2400		10	20	mg/l	J+	be	Equipment Blank	610	mg/L
440-112107-1	M-11	20150605	SM2540C	TDS	Total Dissolved Solids	2300		10	20	mg/l	J+	be	Equipment Blank	630	mg/L
440-112107-1	M-13	20150605	SM2540C	TDS	Total Dissolved Solids	3100		25	50	mg/l	J+	be	Equipment Blank	630	mg/L
440-112107-1	M-132	20150605	SM2540C	TDS	Total Dissolved Solids	1300		10	20	mg/l	J+	be	Equipment Blank	630	mg/L
440-112107-1	M-133	20150605	SM2540C	TDS	Total Dissolved Solids	5900		50	100	mg/l	J+	be	Equipment Blank	630	mg/L
440-112107-1	M-21	20150605	SM2540C	TDS	Total Dissolved Solids	3400		25	50	mg/l	J+	be	Equipment Blank	630	mg/L
440-112107-1	M-77	20150605	SM2540C	TDS	Total Dissolved Solids	3000		10	20	mg/l	J+	be	Equipment Blank	630	mg/L
440-100474-1	ART-1	20150202	SM4500-H+B	C-006	pH	7.65	HF	0.100	0.100	s.u.	J	h	Holding Time	49.62	Hours
440-100474-1	ART-2	20150202	SM4500-H+B	C-006	pH	7.47	HF	0.100	0.100	s.u.	J	h	Holding Time	49.57	Hours
440-100474-1	ART-3	20150202	SM4500-H+B	C-006	pH	7.50	HF	0.100	0.100	s.u.	J	h	Holding Time	49.47	Hours
440-100474-1	ART-4	20150202	SM4500-H+B	C-006	pH	7.58	HF	0.100	0.100	s.u.	J	h	Holding Time	49.43	Hours
440-100474-1	ART-6	20150202	SM4500-H+B	C-006	pH	7.60	HF	0.100	0.100	s.u.	J	h	Holding Time	48.9	Hours
440-100474-1	ART-7B	20150202	SM4500-H+B	C-006	pH	7.56	HF	0.100	0.100	s.u.	J	h	Holding Time	49.38	Hours
440-100474-1	ART-8	20150202	SM4500-H+B	C-006	pH	7.47	HF	0.100	0.100	s.u.	J	h	Holding Time	49.52	Hours
440-100474-1	ART-9	20150202	SM4500-H+B	C-006	pH	7.60	HF	0.100	0.100	s.u.	J	h	Holding Time	49.35	Hours
440-100474-1	PC-115R	20150202	SM4500-H+B	C-006	pH	7.61	HF	0.100	0.100	s.u.	J	h	Holding Time	50.6	Hours
440-100474-1	PC-116R	20150202	SM4500-H+B	C-006	pH	7.53	HF	0.100	0.100	s.u.	J	h	Holding Time	50.57	Hours
440-100474-1	PC-117	20150202	SM4500-H+B	C-006	pH	7.56	HF	0.100	0.100	s.u.	J	h	Holding Time	50.52	Hours
440-100474-1	PC-118	20150202	SM4500-H+B	C-006	pH	7.65	HF	0.100	0.100	s.u.	J	h	Holding Time	50.48	Hours
440-100474-1	PC-119	20150202	SM4500-H+B	C-006	pH	7.63	HF	0.100	0.100	s.u.	J	h	Holding Time	50.43	Hours
440-100474-1	PC-120	20150202	SM4500-H+B	C-006	pH	7.52	HF	0.100	0.100	s.u.	J	h	Holding Time	50.3	Hours
440-100474-1	PC-121	20150202	SM4500-H+B	C-006	pH	7.52	HF	0.100	0.100	s.u.	J	h	Holding Time	50.23	Hours
440-100474-1	PC-133	20150202	SM4500-H+B	C-006	pH	7.54	HF	0.100	0.100	s.u.	J	h	Holding Time	50.33	Hours
440-100474-1	PC-150	20150202	SM4500-H+B	C-006	pH	7.19	HF	0.100	0.100	s.u.	J	h	Holding Time	49.27	Hours
440-100474-1	PC-99R2/R3	20150202	SM4500-H+B	C-006	pH	7.50	HF	0.100	0.100	s.u.	J	h	Holding Time	50.63	Hours
440-101929-1	ARP-2A	20150213	SM4500-H+B	C-006	pH	7.75	HF	0.100	0.100	s.u.	J	h	Holding Time	99.57	Hours
440-101929-1	ART-7A	20150213	SM4500-H+B	C-006	pH	7.56	HF	0.100	0.100	s.u.	J	h	Holding Time	100.02	Hours
440-101929-1	M-83	20150213	SM4500-H+B	C-006	pH	7.65	HF	0.100	0.100	s.u.	J	h	Holding Time	100.98	Hours
440-101929-1	PC-122	20150213	SM4500-H+B	C-006	pH	7.61	HF	0.100	0.100	s.u.	J	h	Holding Time	100.28	Hours
440-101929-1	PC-18	20150213	SM4500-H+B	C-006	pH	7.47	HF	0.100	0.100	s.u.	J	h	Holding Time	97.17	Hours
440-101929-1	PC-55	20150213	SM4500-H+B	C-006	pH	7.67	HF	0.100	0.100	s.u.	J	h	Holding Time	97.55	Hours
440-102689-1	DUP-1	20150224	SM4500-H+B	C-006	pH	7.54	HF	0.100	0.100	s.u.	J	h	Holding Time	49.95	Hours
440-102689-1	FB-1	20150224	SM4500-H+B	C-006	pH	6.27	HF	0.100	0.100	s.u.	J	h	Holding Time	52.53	Hours
440-102689-1	M-23	20150224	SM4500-H+B	C-006	pH	7.53	HF	0.100	0.100	s.u.	J	h	Holding Time	49.52	Hours

Table IV. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Reason Code Definition	Qualification Finding	
440-102689-1	M-44	20150224	SM4500-H+B	C-006	pH	7.52	HF	0.100	0.100	s.u.	J	h	Holding Time	48.62	Hours
440-102689-1	M-48A	20150224	SM4500-H+B	C-006	pH	7.48	HF	0.100	0.100	s.u.	J	h	Holding Time	50.12	Hours
440-102689-1	PC-123	20150224	SM4500-H+B	C-006	pH	7.48	HF	0.100	0.100	s.u.	J	h	Holding Time	54.68	Hours
440-102689-1	PC-124	20150224	SM4500-H+B	C-006	pH	7.37	HF	0.100	0.100	s.u.	J	h	Holding Time	52.33	Hours
440-102689-1	PC-125	20150224	SM4500-H+B	C-006	pH	7.38	HF	0.100	0.100	s.u.	J	h	Holding Time	52.1	Hours
440-102689-1	PC-126	20150224	SM4500-H+B	C-006	pH	7.40	HF	0.100	0.100	s.u.	J	h	Holding Time	51.87	Hours
440-102689-1	PC-127	20150224	SM4500-H+B	C-006	pH	7.48	HF	0.100	0.100	s.u.	J	h	Holding Time	51.58	Hours
440-102689-1	PC-128	20150224	SM4500-H+B	C-006	pH	7.51	HF	0.100	0.100	s.u.	J	h	Holding Time	54.35	Hours
440-102689-1	PC-129	20150224	SM4500-H+B	C-006	pH	7.41	HF	0.100	0.100	s.u.	J	h	Holding Time	54.05	Hours
440-102689-1	PC-130	20150224	SM4500-H+B	C-006	pH	7.46	HF	0.100	0.100	s.u.	J	h	Holding Time	53.6	Hours
440-102689-1	PC-131	20150224	SM4500-H+B	C-006	pH	7.34	HF	0.100	0.100	s.u.	J	h	Holding Time	53.18	Hours
440-102689-1	PC-132	20150224	SM4500-H+B	C-006	pH	7.32	HF	0.100	0.100	s.u.	J	h	Holding Time	52.7	Hours
440-102689-1	PC-37	20150224	SM4500-H+B	C-006	pH	7.52	HF	0.100	0.100	s.u.	J	h	Holding Time	49.7	Hours
440-102689-1	PC-54	20150224	SM4500-H+B	C-006	pH	7.55	HF	0.100	0.100	s.u.	J	h	Holding Time	50.47	Hours
440-102689-1	PC-71	20150224	SM4500-H+B	C-006	pH	7.59	HF	0.100	0.100	s.u.	J	h	Holding Time	48.95	Hours
440-102689-1	PC-72	20150224	SM4500-H+B	C-006	pH	7.60	HF	0.100	0.100	s.u.	J	h	Holding Time	49.18	Hours
440-102689-1	PC-73	20150224	SM4500-H+B	C-006	pH	7.53	HF	0.100	0.100	s.u.	J	h	Holding Time	49.37	Hours
440-102831-1	EB-1	20150225	SM4500-H+B	C-006	pH	6.90	HF	0.100	0.100	s.u.	J	h	Holding Time	51.02	Hours
440-102831-1	M-64	20150225	SM4500-H+B	C-006	pH	7.77	HF	0.100	0.100	s.u.	J	h	Holding Time	51.22	Hours
440-102831-1	M-65	20150225	SM4500-H+B	C-006	pH	7.36	HF	0.100	0.100	s.u.	J	h	Holding Time	51.68	Hours
440-102831-1	M-66	20150225	SM4500-H+B	C-006	pH	7.39	HF	0.100	0.100	s.u.	J	h	Holding Time	48.12	Hours
440-102831-1	PC-135A	20150225	SM4500-H+B	C-006	pH	7.47	HF	0.100	0.100	s.u.	J	h	Holding Time	52.43	Hours
440-102831-1	PC-136	20150225	SM4500-H+B	C-006	pH	7.59	HF	0.100	0.100	s.u.	J	h	Holding Time	52.82	Hours
440-102951-1	DUP-2	20150226	SM4500-H+B	C-006	pH	7.58	HF	0.100	0.100	s.u.	J	h	Holding Time	51.6	Hours
440-102951-1	DUP-4	20150226	SM4500-H+B	C-006	pH	7.70	HF	0.100	0.100	s.u.	J	h	Holding Time	49.2	Hours
440-102951-1	EB-2	20150226	SM4500-H+B	C-006	pH	6.96	HF	0.100	0.100	s.u.	J	h	Holding Time	50.08	Hours
440-102951-1	I-AC	20150226	SM4500-H+B	C-006	pH	6.88	HF	0.100	0.100	s.u.	J	h	Holding Time	51.97	Hours
440-102951-1	I-AD	20150226	SM4500-H+B	C-006	pH	7.61	HF	0.100	0.100	s.u.	J	h	Holding Time	52.08	Hours
440-102951-1	I-I	20150226	SM4500-H+B	C-006	pH	7.65	HF	0.100	0.100	s.u.	J	h	Holding Time	49.72	Hours
440-102951-1	I-K	20150226	SM4500-H+B	C-006	pH	7.56	HF	0.100	0.100	s.u.	J	h	Holding Time	51.85	Hours
440-102951-1	I-V	20150226	SM4500-H+B	C-006	pH	7.65	HF	0.100	0.100	s.u.	J	h	Holding Time	49.58	Hours
440-102951-1	I-Z	20150226	SM4500-H+B	C-006	pH	7.68	HF	0.100	0.100	s.u.	J	h	Holding Time	49.8	Hours
440-102951-1	M-11	20150226	SM4500-H+B	C-006	pH	8.01	HF	0.100	0.100	s.u.	J	h	Holding Time	48.12	Hours
440-102951-1	M-12A	20150226	SM4500-H+B	C-006	pH	8.22	HF	0.100	0.100	s.u.	J	h	Holding Time	48.97	Hours
440-102951-1	M-19	20150226	SM4500-H+B	C-006	pH	7.67	HF	0.100	0.100	s.u.	J	h	Holding Time	52.33	Hours
440-102951-1	M-31A	20150226	SM4500-H+B	C-006	pH	7.62	HF	0.100	0.100	s.u.	J	h	Holding Time	53.62	Hours
440-102951-1	M-35	20150226	SM4500-H+B	C-006	pH	7.62	HF	0.100	0.100	s.u.	J	h	Holding Time	52.8	Hours
440-102951-1	M-52	20150226	SM4500-H+B	C-006	pH	7.72	HF	0.100	0.100	s.u.	J	h	Holding Time	53.28	Hours
440-102951-1	M-67	20150226	SM4500-H+B	C-006	pH	7.57	HF	0.100	0.100	s.u.	J	h	Holding Time	50.2	Hours
440-102951-1	M-68	20150226	SM4500-H+B	C-006	pH	7.56	HF	0.100	0.100	s.u.	J	h	Holding Time	51.6	Hours
440-102951-1	M-73	20150226	SM4500-H+B	C-006	pH	7.57	HF	0.100	0.100	s.u.	J	h	Holding Time	50.65	Hours
440-102951-1	M-74	20150226	SM4500-H+B	C-006	pH	7.63	HF	0.100	0.100	s.u.	J	h	Holding Time	51.17	Hours

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SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Reason Code Definition	Qualification Finding	
440-102951-1	M-80	20150226	SM4500-H+B	C-006	pH	7.66	HF	0.100	0.100	s.u.	J	h	Holding Time	48.82	Hours
440-102951-1	M-81A	20150226	SM4500-H+B	C-006	pH	7.66	HF	0.100	0.100	s.u.	J	h	Holding Time	49.2	Hours
440-102951-1	M-99	20150226	SM4500-H+B	C-006	pH	7.66	HF	0.100	0.100	s.u.	J	h	Holding Time	54.58	Hours
440-103031-1	DUP-3	20150227	SM4500-H+B	C-006	pH	7.21	HF	0.100	0.100	s.u.	J	h	Holding Time	75.05	Hours
440-103031-1	I-J	20150227	SM4500-H+B	C-006	pH	7.37	HF	0.100	0.100	s.u.	J	h	Holding Time	81.8	Hours
440-103031-1	M-131	20150227	SM4500-H+B	C-006	pH	7.65	HF	0.100	0.100	s.u.	J	h	Holding Time	78.1	Hours
440-103031-1	M-135	20150227	SM4500-H+B	C-006	pH	7.65	HF	0.100	0.100	s.u.	J	h	Holding Time	78.38	Hours
440-103031-1	M-22A	20150227	SM4500-H+B	C-006	pH	7.39	HF	0.100	0.100	s.u.	J	h	Holding Time	76.87	Hours
440-103031-1	M-25	20150227	SM4500-H+B	C-006	pH	7.38	HF	0.100	0.100	s.u.	J	h	Holding Time	77.87	Hours
440-103031-1	M-37	20150227	SM4500-H+B	C-006	pH	7.20	HF	0.100	0.100	s.u.	J	h	Holding Time	75.05	Hours
440-103031-1	M-38	20150227	SM4500-H+B	C-006	pH	7.32	HF	0.100	0.100	s.u.	J	h	Holding Time	75.58	Hours
440-103031-1	PC-148	20150227	SM4500-H+B	C-006	pH	7.53	HF	0.100	0.100	s.u.	J	h	Holding Time	79.7	Hours
440-103031-1	PC-149	20150227	SM4500-H+B	C-006	pH	7.46	HF	0.100	0.100	s.u.	J	h	Holding Time	78.95	Hours
440-108677-1	ART-1	20150504	SM4500-H+B	C-006	pH	7.57	HF	0.100	0.100	s.u.	J	h	Holding Time	48.97	Hours
440-108677-1	ART-2	20150504	SM4500-H+B	C-006	pH	7.32	HF	0.100	0.100	s.u.	J	h	Holding Time	48.93	Hours
440-108677-1	ART-3	20150504	SM4500-H+B	C-006	pH	7.32	HF	0.100	0.100	s.u.	J	h	Holding Time	48.88	Hours
440-108677-1	ART-4	20150504	SM4500-H+B	C-006	pH	7.49	HF	0.100	0.100	s.u.	J	h	Holding Time	48.83	Hours
440-108677-1	ART-7B	20150504	SM4500-H+B	C-006	pH	7.54	HF	0.100	0.100	s.u.	J	h	Holding Time	48.78	Hours
440-108677-1	ART-8	20150504	SM4500-H+B	C-006	pH	7.31	HF	0.100	0.100	s.u.	J	h	Holding Time	48.67	Hours
440-108677-1	ART-9	20150504	SM4500-H+B	C-006	pH	7.55	HF	0.100	0.100	s.u.	J	h	Holding Time	48.73	Hours
440-108677-1	PC-115R	20150504	SM4500-H+B	C-006	pH	7.53	HF	0.100	0.100	s.u.	J	h	Holding Time	49.58	Hours
440-108677-1	PC-116R	20150504	SM4500-H+B	C-006	pH	7.44	HF	0.100	0.100	s.u.	J	h	Holding Time	49.53	Hours
440-108677-1	PC-117	20150504	SM4500-H+B	C-006	pH	7.52	HF	0.100	0.100	s.u.	J	h	Holding Time	49.48	Hours
440-108677-1	PC-118	20150504	SM4500-H+B	C-006	pH	7.64	HF	0.100	0.100	s.u.	J	h	Holding Time	49.43	Hours
440-108677-1	PC-119	20150504	SM4500-H+B	C-006	pH	7.59	HF	0.100	0.100	s.u.	J	h	Holding Time	49.38	Hours
440-108677-1	PC-120	20150504	SM4500-H+B	C-006	pH	7.50	HF	0.100	0.100	s.u.	J	h	Holding Time	49.28	Hours
440-108677-1	PC-121	20150504	SM4500-H+B	C-006	pH	7.50	HF	0.100	0.100	s.u.	J	h	Holding Time	49.23	Hours
440-108677-1	PC-133	20150504	SM4500-H+B	C-006	pH	7.46	HF	0.100	0.100	s.u.	J	h	Holding Time	49.33	Hours
440-108677-1	PC-150	20150504	SM4500-H+B	C-006	pH	7.55	HF	0.100	0.100	s.u.	J	h	Holding Time	48.62	Hours
440-108677-1	PC-99R2/R3	20150504	SM4500-H+B	C-006	pH	7.38	HF	0.100	0.100	s.u.	J	h	Holding Time	49.63	Hours
440-108680-1	I-AA	20150504	SM4500-H+B	C-006	pH	7.57	HF	0.100	0.100	s.u.	J	h	Holding Time	53.37	Hours
440-108680-1	I-AB	20150504	SM4500-H+B	C-006	pH	7.76	HF	0.100	0.100	s.u.	J	h	Holding Time	53.52	Hours
440-108680-1	I-AR	20150504	SM4500-H+B	C-006	pH	7.52	HF	0.100	0.100	s.u.	J	h	Holding Time	53.22	Hours
440-108680-1	I-B	20150504	SM4500-H+B	C-006	pH	7.31	HF	0.100	0.100	s.u.	J	h	Holding Time	52.32	Hours
440-108680-1	I-C	20150504	SM4500-H+B	C-006	pH	7.61	HF	0.100	0.100	s.u.	J	h	Holding Time	52.9	Hours
440-108680-1	I-D	20150504	SM4500-H+B	C-006	pH	7.68	HF	0.100	0.100	s.u.	J	h	Holding Time	53.07	Hours
440-108680-1	I-E	20150504	SM4500-H+B	C-006	pH	7.19	HF	0.100	0.100	s.u.	J	h	Holding Time	53.38	Hours
440-108680-1	I-F	20150504	SM4500-H+B	C-006	pH	7.41	HF	0.100	0.100	s.u.	J	h	Holding Time	53.88	Hours
440-108680-1	I-G	20150504	SM4500-H+B	C-006	pH	7.35	HF	0.100	0.100	s.u.	J	h	Holding Time	54.23	Hours
440-108680-1	I-H	20150504	SM4500-H+B	C-006	pH	7.13	HF	0.100	0.100	s.u.	J	h	Holding Time	54.73	Hours
440-108680-1	I-L	20150504	SM4500-H+B	C-006	pH	7.46	HF	0.100	0.100	s.u.	J	h	Holding Time	52.6	Hours
440-108680-1	I-M	20150504	SM4500-H+B	C-006	pH	7.62	HF	0.100	0.100	s.u.	J	h	Holding Time	53.28	Hours

Table IV. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Reason Code Definition	Qualification Finding	
440-108680-1	I-N	20150504	SM4500-H+B	C-006	pH	7.26	HF	0.100	0.100	s.u.	J	h	Holding Time	53.63	Hours
440-108680-1	I-O	20150504	SM4500-H+B	C-006	pH	7.36	HF	0.100	0.100	s.u.	J	h	Holding Time	55.05	Hours
440-108680-1	I-P	20150504	SM4500-H+B	C-006	pH	7.16	HF	0.100	0.100	s.u.	J	h	Holding Time	54.85	Hours
440-108680-1	I-Q	20150504	SM4500-H+B	C-006	pH	7.05	HF	0.100	0.100	s.u.	J	h	Holding Time	54.1	Hours
440-108680-1	I-R	20150504	SM4500-H+B	C-006	pH	7.56	HF	0.100	0.100	s.u.	J	h	Holding Time	52.43	Hours
440-108680-1	I-S	20150504	SM4500-H+B	C-006	pH	7.57	HF	0.100	0.100	s.u.	J	h	Holding Time	52.75	Hours
440-108680-1	I-T	20150504	SM4500-H+B	C-006	pH	7.44	HF	0.100	0.100	s.u.	J	h	Holding Time	54.38	Hours
440-108680-1	I-U	20150504	SM4500-H+B	C-006	pH	7.11	HF	0.100	0.100	s.u.	J	h	Holding Time	54.5	Hours
440-108680-1	I-W	20150504	SM4500-H+B	C-006	pH	7.52	HF	0.100	0.100	s.u.	J	h	Holding Time	54.92	Hours
440-108680-1	I-X	20150504	SM4500-H+B	C-006	pH	7.22	HF	0.100	0.100	s.u.	J	h	Holding Time	53.73	Hours
440-108680-1	I-Y	20150504	SM4500-H+B	C-006	pH	7.33	HF	0.100	0.100	s.u.	J	h	Holding Time	52.52	Hours
440-109318-1	DUP-1	20150508	SM4500-H+B	C-006	pH	7.24	HF	0.100	0.100	s.u.	J	h	Holding Time	72.85	Hours
440-109318-1	EB-4	20150508	SM4500-H+B	C-006	pH	7.50	HF	0.100	0.100	s.u.	J	h	Holding Time	72.75	Hours
440-109318-1	FB-1	20150508	SM4500-H+B	C-006	pH	7.28	HF	0.100	0.100	s.u.	J	h	Holding Time	69.58	Hours
440-109318-1	M-126	20150508	SM4500-H+B	C-006	pH	7.23	HF	0.100	0.100	s.u.	J	h	Holding Time	69.62	Hours
440-109318-1	M-131	20150508	SM4500-H+B	C-006	pH	7.66	HF	0.100	0.100	s.u.	J	h	Holding Time	70.25	Hours
440-109318-1	M-134	20150508	SM4500-H+B	C-006	pH	7.59	HF	0.100	0.100	s.u.	J	h	Holding Time	70.63	Hours
440-109318-1	M-135	20150508	SM4500-H+B	C-006	pH	7.60	HF	0.100	0.100	s.u.	J	h	Holding Time	71.00	Hours
440-109318-1	M-136	20150508	SM4500-H+B	C-006	pH	7.92	HF	0.100	0.100	s.u.	J	h	Holding Time	71.27	Hours
440-109318-1	M-140	20150508	SM4500-H+B	C-006	pH	7.50	HF	0.100	0.100	s.u.	J	h	Holding Time	74.83	Hours
440-109318-1	M-57A	20150508	SM4500-H+B	C-006	pH	7.60	HF	0.100	0.100	s.u.	J	h	Holding Time	69.92	Hours
440-109318-1	M-64	20150508	SM4500-H+B	C-006	pH	7.49	HF	0.100	0.100	s.u.	J	h	Holding Time	73.75	Hours
440-109318-1	M-66	20150508	SM4500-H+B	C-006	pH	7.21	HF	0.100	0.100	s.u.	J	h	Holding Time	72.85	Hours
440-109318-1	M-69	20150508	SM4500-H+B	C-006	pH	7.54	HF	0.100	0.100	s.u.	J	h	Holding Time	72.12	Hours
440-109318-1	M-79	20150508	SM4500-H+B	C-006	pH	7.50	HF	0.100	0.100	s.u.	J	h	Holding Time	72.5	Hours
440-110425-1	TR-1	20150518	SM4500-H+B	C-006	pH	7.95	HF	0.100	0.100	s.u.	J	h	Holding Time	71.22	Hours
440-110425-1	TR-3	20150518	SM4500-H+B	C-006	pH	7.98	HF	0.100	0.100	s.u.	J	h	Holding Time	69.72	Hours
440-110425-1	TR-4	20150518	SM4500-H+B	C-006	pH	8.15	HF	0.100	0.100	s.u.	J	h	Holding Time	70.38	Hours
440-110425-1	TR-5	20150518	SM4500-H+B	C-006	pH	7.95	HF	0.100	0.100	s.u.	J	h	Holding Time	69.05	Hours
440-110425-1	TR-6	20150518	SM4500-H+B	C-006	pH	7.22	HF	0.100	0.100	s.u.	J	h	Holding Time	68.3	Hours
440-110425-1	TR-7	20150518	SM4500-H+B	C-006	pH	7.92	HF	0.100	0.100	s.u.	J	h	Holding Time	67.88	Hours
440-110520-1	PC-122	20150519	SM4500-H+B	C-006	pH	7.45	HF	0.100	0.100	s.u.	J	h	Holding Time	48.65	Hours
440-110520-1	PC-53	20150519	SM4500-H+B	C-006	pH	7.48	HF	0.100	0.100	s.u.	J	h	Holding Time	48.28	Hours
440-110520-1	PC-62	20150519	SM4500-H+B	C-006	pH	7.51	HF	0.100	0.100	s.u.	J	h	Holding Time	50.15	Hours
440-110520-1	PC-68	20150519	SM4500-H+B	C-006	pH	7.37	HF	0.100	0.100	s.u.	J	h	Holding Time	49.67	Hours
440-110520-1	PC-86	20150519	SM4500-H+B	C-006	pH	7.54	HF	0.100	0.100	s.u.	J	h	Holding Time	49.27	Hours
440-110604-1	M-118	20150519	SM4500-H+B	C-006	pH	8.05	HF	0.100	0.100	s.u.	J	h	Holding Time	52.78	Hours
440-110604-1	M-120	20150519	SM4500-H+B	C-006	pH	7.60	HF	0.100	0.100	s.u.	J	h	Holding Time	53.93	Hours
440-110604-1	M-121	20150519	SM4500-H+B	C-006	pH	7.57	HF	0.100	0.100	s.u.	J	h	Holding Time	51.98	Hours
440-110604-1	TR-8	20150519	SM4500-H+B	C-006	pH	7.95	HF	0.100	0.100	s.u.	J	h	Holding Time	58.63	Hours
440-110832-1	DUP-2	20150521	SM4500-H+B	C-006	pH	7.73	HF	0.100	0.100	s.u.	J	h	Holding Time	51.90	Hours
440-110832-1	EB-6	20150521	SM4500-H+B	C-006	pH	6.32	HF	0.100	0.100	s.u.	J	h	Holding Time	50.63	Hours

Table IV. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validator Qualifier	Reason Code	Reason Code Definition	Qualification Finding	
440-110832-1	PC-143	20150521	SM4500-H+B	C-006	pH	7.65	HF	0.100	0.100	s.u.	J	h	Holding Time	50.78	Hours
440-110832-1	PC-148	20150521	SM4500-H+B	C-006	pH	7.64	HF	0.100	0.100	s.u.	J	h	Holding Time	51.90	Hours
440-110832-1	PC-149	20150521	SM4500-H+B	C-006	pH	7.64	HF	0.100	0.100	s.u.	J	h	Holding Time	51.25	Hours
440-110834-1	M-152	20150521	SM4500-H+B	C-006	pH	8.08	HF	0.100	0.100	s.u.	J	h	Holding Time	53.05	Hours
440-110834-1	M-156	20150521	SM4500-H+B	C-006	pH	8.10	HF	0.100	0.100	s.u.	J	h	Holding Time	52.27	Hours
440-110834-1	TR-11	20150521	SM4500-H+B	C-006	pH	8.15	HF	0.100	0.100	s.u.	J	h	Holding Time	51.22	Hours
440-110834-1	TR-12	20150521	SM4500-H+B	C-006	pH	8.29	HF	0.100	0.100	s.u.	J	h	Holding Time	49.25	Hours
440-110915-1	M-5A	20150522	SM4500-H+B	C-006	pH	7.03	HF	0.100	0.100	s.u.	J	h	Holding Time	98.25	Hours
440-110915-1	M-7B	20150522	SM4500-H+B	C-006	pH	7.44	HF	0.100	0.100	s.u.	J	h	Holding Time	101.27	Hours
440-111099-1	M-117	20150526	SM4500-H+B	C-006	pH	7.99	HF	0.100	0.100	s.u.	J	h	Holding Time	52.57	Hours
440-111099-1	M-149	20150526	SM4500-H+B	C-006	pH	7.46	HF	0.100	0.100	s.u.	J	h	Holding Time	50.15	Hours
440-111099-1	M-153	20150526	SM4500-H+B	C-006	pH	7.84	HF	0.100	0.100	s.u.	J	h	Holding Time	49.65	Hours
440-111099-1	M-165	20150526	SM4500-H+B	C-006	pH	7.95	HF	0.100	0.100	s.u.	J	h	Holding Time	48.18	Hours
440-111099-1	M-186	20150526	SM4500-H+B	C-006	pH	7.51	HF	0.100	0.100	s.u.	J	h	Holding Time	48.98	Hours
440-111102-1	EB-5	20150526	SM4500-H+B	C-006	pH	6.57	HF	0.100	0.100	s.u.	J	h	Holding Time	48.93	Hours
440-111102-1	M-48A	20150526	SM4500-H+B	C-006	pH	7.73	HF	0.100	0.100	s.u.	J	h	Holding Time	50.60	Hours
440-111102-1	PC-21A	20150526	SM4500-H+B	C-006	pH	7.61	HF	0.100	0.100	s.u.	J	h	Holding Time	50.32	Hours
440-111102-1	PC-40	20150526	SM4500-H+B	C-006	pH	7.60	HF	0.100	0.100	s.u.	J	h	Holding Time	48.58	Hours
440-111102-1	PC-54	20150526	SM4500-H+B	C-006	pH	7.73	HF	0.100	0.100	s.u.	J	h	Holding Time	51.07	Hours
440-111102-1	PC-71	20150526	SM4500-H+B	C-006	pH	7.70	HF	0.100	0.100	s.u.	J	h	Holding Time	49.60	Hours
440-111102-1	PC-72	20150526	SM4500-H+B	C-006	pH	7.64	HF	0.100	0.100	s.u.	J	h	Holding Time	49.30	Hours
440-111102-1	PC-73	20150526	SM4500-H+B	C-006	pH	7.68	HF	0.100	0.100	s.u.	J	h	Holding Time	49.00	Hours
440-110915-1	M-5A	20150522	9020	TOH	TOX Quad	12000	J	3900	15000	ug/l	J	sp	Detect <PQL	--	--

ATTACHMENT A

Metals Data Validation Report

Metals by EPA Method 200.7

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

III. ICP Interference Check Sample (ICS) Analysis

The frequency of ICS analysis was met. All criteria were within QC limits.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

Samples EB-1 (from SDGs 440-102831-1 and 440-108808-1), EB-2 (from SDGs 440-102951-1 and 440-108986-1), EB-03 (from SDG 440-109155-1), EB-4 (from SDG 440-109318-1), EB-8 (from SDG 440-109936-1), EB-9 (from SDG 440-110520-1), EB-10 (from SDG 440-110670-1), E. Blank (from SDG 440-110834-1), EB-7 (from SDG 440-110962-1), EB-5 (from SDG 440-111102-1), EB-11 (from SDG 440-111211-1), EB-13 (from SDG 440-111334-1), EB-12 (from SDG 440-111455-1), EB-14 (from SDG 440-111754-1), EB-15 (from SDG 440-111886-1), and EB-16 (from SDG 440-112107-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-110832-1	EB-6	05/21/15	Chromium	0.0041 mg/L	PC-148 PC-149 PC-143 M-70 M-71 M-72 M-22A M-38 DUP-2

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-110962-1	EB-7	05/22/15	Chromium	0.0048 mg/L	M-99 M-14A MW-16 M-25 M-37 M-92 M-97 DUP-3
440-111455-1	EB-12	05/29/15	Chromium	0.0027 mg/L	M-81A M-80 M-83 I-V I-I I-Z I-J I-K I-AC I-AD M-68 M-67 M-73 M-74 M-19 M-35 M-2A M-75 M-76 M-115
440-111754-1	EB-14	06/02/15	Chromium	0.023 mg/L	PC-66 M-144 M-146 M-147 M-142 M-145 M-139 M-141 M-148A M-52 M-31A

Samples FB-1 (from SDGs 440-102689-1 and 440-109318-1) and FB-2 (from SDG 440-111211-1) were identified as field blanks. No contaminants were found.

Sample concentrations were compared to concentrations detected in the field blanks as required by the QAPP. No sample data was qualified with the following exceptions:

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
440-110832-1	PC-143	Chromium	0.0026 mg/L	0.0026J mg/L

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on associated project samples. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-101929-1	ART-7AMS/MSD (ART-7A)	Chromium	-	67 (75-125)	J- (all detects)	A
440-110915-1	M-5AMS/MSD (All samples in SDG 440-110915-1)	Boron	69 (75-125)	126 (75-125)	J (all detects)	A

Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in these SDGs, and therefore duplicate analyses were not performed for these SDGs.

VIII. ICP Serial Dilution

ICP serial dilution was not performed for these SDGs.

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

Samples M-44 and DUP-1 (from SDG 440-102689-1), samples M-68 and DUP-2 (from SDG 440-102951-1), samples M-81A and DUP-4 (from SDG 440-102951-1), samples M-37 and DUP-3 (from SDG 440-103031-1), samples M-66 and DUP-1 (from SDG 440-109318-1), samples PC-144 and DUP-1 (from SDG 440-110670-1), samples PC-148 and DUP-2 (from SDG 440-110832-1), samples M-25 and DUP-3 (from SDG 440-110962-1), samples M-44 and DUP-4 (from SDG 440-111102-1), samples M-124 and DUP-5 (from SDG 440-111886-1) and samples M-10 (from SDG 440-111887-1) and DUP-6 (from SDG 440-111886-1), and samples M-12A and DUP-7 (from SDG 440-112107-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-44	DUP-1				
440-102689-1	Chromium	0.87	0.94	8 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-68	DUP-2				
440-102951-1	Chromium	1.5	1.5	0 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-81A	DUP-4				
440-102951-1	Chromium	2.1	2.1	0 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-37	DUP-3				
440-103031-1	Chromium	0.032	0.013	-	0.019 (≤0.025)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-66	DUP-1				
440-109318-1	Chromium	21	23	9 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		PC-144	DUP-1				
440-110670-1	Chromium	0.045	0.048	6 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		PC-148	DUP-2				
440-110832-1	Chromium	0.021	0.019	-	0.02 (≤0.0050)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-25	DUP-3				
440-110962-1	Chromium	6.9	6.6	4 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-44	DUP-4				
440-111102-1	Chromium	0.94	0.91	3 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-124	DUP-5				
440-111886-1	Chromium	0.024	0.022	-	0.002 (≤0.005)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-10	DUP-6				
440-111886-1/ 440-111887-1	Chromium	0.32	0.28	13 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-12A	DUP-7				
440-112107-1	Chromium	9.7	10	3 (≤30)	-	-	-

XI. Sample Result Verification

All sample result verifications were acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to MS/MSD %R, data were qualified as estimated in three samples.

Due to equipment blank contamination, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

2015 Annual Remedial Performance Sampling
Metals - Data Qualification Summary - SDGs 440-100474-1, 440-101558-1, 440-101655-1, 440-101929-1, 440-102243-1, 440-102526-1, 440-102689-1, 440-102831-1, 440-102951-1, 440-103031-1, 440-103261-1, 440-103265-1, 440-108677-1, 440-108680-1, 440-108808-1, 440-108986-1, 440-109155-1, 440-109318-1, 440-109936-1, 440-110425-1, 440-110520-1, 440-110604-1, 440-110673-1, 440-110832-1, 440-110834-1, 440-110915-1, 440-110962-1, 440-111099-1, 440-111102-1, 440-111211-1, 440-111333-1, 440-111334-1, 440-111455-1, 440-111754-1, 440-111886-1, 440-111887-1, 440-112107-1, 440-112626-1

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-101929-1	ART-7A	Chromium	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-110915-1	M-5A M-7B	Boron	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

2015 Annual Remedial Performance Sampling
Metals - Laboratory Blank Data Qualification Summary - SDGs 440-100474-1, 440-101558-1, 440-101655-1, 440-101929-1, 440-102243-1, 440-102526-1, 440-102689-1, 440-102831-1, 440-102951-1, 440-103031-1, 440-103261-1, 440-103265-1, 440-108677-1, 440-108680-1, 440-108808-1, 440-108986-1, 440-109155-1, 440-109318-1, 440-109936-1, 440-110425-1, 440-110520-1, 440-110604-1, 440-110673-1, 440-110832-1, 440-110834-1, 440-110915-1, 440-110962-1, 440-111099-1, 440-111102-1, 440-111211-1, 440-111333-1, 440-111334-1, 440-111455-1, 440-111754-1, 440-111886-1, 440-111887-1, 440-112107-1, 440-112626-1

No Sample Data Qualified in these SDGs

2015 Annual Remedial Performance Sampling
Metals - Field Blank Data Qualification Summary - SDGs 440-100474-1, 440-101558-1, 440-101655-1, 440-101929-1, 440-102243-1, 440-102526-1, 440-102689-1, 440-102831-1, 440-102951-1, 440-103031-1, 440-103261-1, 440-103265-1, 440-108677-1, 440-108680-1, 440-108808-1, 440-108986-1, 440-109155-1, 440-109318-1, 440-109936-1, 440-110425-1, 440-110520-1, 440-110604-1, 440-110673-1, 440-110832-1, 440-110834-1, 440-110915-1, 440-110962-1, 440-111099-1, 440-111102-1, 440-111211-1, 440-111333-1, 440-111334-1, 440-111455-1, 440-111754-1, 440-111886-1, 440-111887-1, 440-112107-1, 440-112626-1

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
440-110832-1	PC-143	Chromium	0.0026J mg/L	A	be

ATTACHMENT B

Wet Chemistry Data Validation Report

Hexavalent Chromium by EPA Method 218.6
Chloride, Nitrate as Nitrogen, Nitrite as Nitrogen, and Sulfate by EPA Method 300.0
Chlorate by EPA Method 300.1B
Perchlorate by EPA Method 314.0
Ammonia as Nitrogen by EPA Method 350.1
Phenolics by EPA Method 420.1
Nitrate/Nitrite as Nitrogen and Total Inorganic Nitrogen by Calculation Method
Specific Conductance by Standard Method 2510
Total Dissolved Solids by Standard Method 2540C
pH by Standard Method 4500 H+B
Total Organic Carbon by Standard Method 5310C
Total Organic Halides by EPA SW-846 Method 9020B

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-100474-1	ART-1	pH	49.62 hours	48 hours	J (all detects)	P
440-100474-1	ART-2	pH	49.57 hours	48 hours	J (all detects)	P
440-100474-1	ART-3	pH	49.47 hours	48 hours	J (all detects)	P
440-100474-1	ART-4	pH	49.43 hours	48 hours	J (all detects)	P
440-100474-1	ART-6	pH	48.9 hours	48 hours	J (all detects)	P
440-100474-1	ART-7B	pH	49.38 hours	48 hours	J (all detects)	P
440-100474-1	ART-8	pH	49.52 hours	48 hours	J (all detects)	P
440-100474-1	ART-9	pH	49.35 hours	48 hours	J (all detects)	P
440-100474-1	PC-99R2/R3	pH	50.63 hours	48 hours	J (all detects)	P
440-100474-1	PC-115R	pH	50.6 hours	48 hours	J (all detects)	P
440-100474-1	PC-116R	pH	50.57 hours	48 hours	J (all detects)	P
440-100474-1	PC-117	pH	50.52 hours	48 hours	J (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-100474-1	PC-118	pH	50.48 hours	48 hours	J (all detects)	P
440-100474-1	PC-119	pH	50.43 hours	48 hours	J (all detects)	P
440-100474-1	PC-120	pH	50.3 hours	48 hours	J (all detects)	P
440-100474-1	PC-121	pH	50.23 hours	48 hours	J (all detects)	P
440-100474-1	PC-133	pH	50.33 hours	48 hours	J (all detects)	P
440-100474-1	PC-150	pH	49.27 hours	48 hours	J (all detects)	P
440-101929-1	M-83	pH	100.98 hours	48 hours	J (all detects)	P
440-101929-1	ART-7A	pH	100.02 hours	48 hours	J (all detects)	P
440-101929-1	PC-122	pH	100.28 hours	48 hours	J (all detects)	P
440-101929-1	ARP-2A	pH	99.57 hours	48 hours	J (all detects)	P
440-101929-1	PC-18	pH	97.17 hours	48 hours	J (all detects)	P
440-101929-1	PC-55	pH	97.55 hours	48 hours	J (all detects)	P
440-102689-1	PC-123	pH	54.68 hours	48 hours	J (all detects)	P
440-102689-1	PC-128	pH	54.35 hours	48 hours	J (all detects)	P
440-102689-1	PC-129	pH	54.05 hours	48 hours	J (all detects)	P
440-102689-1	PC-130	pH	53.6 hours	48 hours	J (all detects)	P
440-102689-1	PC-131	pH	53.18 hours	48 hours	J (all detects)	P
440-102689-1	PC-132	pH	52.7 hours	48 hours	J (all detects)	P
440-102689-1	PC-124	pH	52.33 hours	48 hours	J (all detects)	P
440-102689-1	PC-125	pH	52.1 hours	48 hours	J (all detects)	P
440-102689-1	PC-126	pH	51.87 hours	48 hours	J (all detects)	P
440-102689-1	PC-127	pH	51.58 hours	48 hours	J (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-102689-1	PC-54	pH	50.47 hours	48 hours	J (all detects)	P
440-102689-1	M-48A	pH	50.12 hours	48 hours	J (all detects)	P
440-102689-1	PC-37	pH	49.7 hours	48 hours	J (all detects)	P
440-102689-1	PC-73	pH	49.37 hours	48 hours	J (all detects)	P
440-102689-1	PC-72	pH	49.18 hours	48 hours	J (all detects)	P
440-102689-1	PC-71	pH	48.95 hours	48 hours	J (all detects)	P
440-102689-1	M-44	pH	48.62 hours	48 hours	J (all detects)	P
440-102689-1	M-23	pH	49.52 hours	48 hours	J (all detects)	P
440-102689-1	DUP-1	pH	49.95 hours	48 hours	J (all detects)	P
440-102689-1	FB-1	pH	52.53 hours	48 hours	J (all detects)	P
440-102831-1	M-64	pH	51.22 hours	48 hours	J (all detects)	P
440-102831-1	M-65	pH	51.68 hours	48 hours	J (all detects)	P
440-102831-1	M-66	pH	48.12 hours	48 hours	J (all detects)	P
440-102831-1	PC-135A	pH	52.43 hours	48 hours	J (all detects)	P
440-102831-1	PC-136	pH	52.82 hours	48 hours	J (all detects)	P
440-102831-1	EB-1	pH	51.02 hours	48 hours	J (all detects)	P
440-102951-1	M-67	pH	50.2 hours	48 hours	J (all detects)	P
440-102951-1	M-81A	pH	49.2 hours	48 hours	J (all detects)	P
440-102951-1	M-80	pH	48.82 hours	48 hours	J (all detects)	P
440-102951-1	DUP-2	pH	51.6 hours	48 hours	J (all detects)	P
440-102951-1	I-AD	pH	52.08 hours	48 hours	J (all detects)	P
440-102951-1	I-AC	pH	51.97 hours	48 hours	J (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-102951-1	I-K	pH	51.85 hours	48 hours	J (all detects)	P
440-102951-1	I-Z	pH	49.8 hours	48 hours	J (all detects)	P
440-102951-1	I-I	pH	49.72 hours	48 hours	J (all detects)	P
440-102951-1	I-V	pH	49.58 hours	48 hours	J (all detects)	P
440-102951-1	DUP-4	pH	49.2 hours	48 hours	J (all detects)	P
440-102951-1	EB-2	pH	50.08 hours	48 hours	J (all detects)	P
440-102951-1	M-12A	pH	48.97 hours	48 hours	J (all detects)	P
440-102951-1	M-11	pH	48.12 hours	48 hours	J (all detects)	P
440-102951-1	M-99	pH	54.58 hours	48 hours	J (all detects)	P
440-102951-1	M-31A	pH	53.62 hours	48 hours	J (all detects)	P
440-102951-1	M-52	pH	53.28 hours	48 hours	J (all detects)	P
440-102951-1	M-35	pH	52.8 hours	48 hours	J (all detects)	P
440-102951-1	M-19	pH	52.33 hours	48 hours	J (all detects)	P
440-102951-1	M-68	pH	51.6 hours	48 hours	J (all detects)	P
440-102951-1	M-74	pH	51.17 hours	48 hours	J (all detects)	P
440-102951-1	M-73	pH	50.65 hours	48 hours	J (all detects)	P
440-103031-1	I-J	pH	81.8 hours	48 hours	J (all detects)	P
440-103031-1	PC-148	pH	79.7 hours	48 hours	J (all detects)	P
440-103031-1	PC-149	pH	78.95 hours	48 hours	J (all detects)	P
440-103031-1	M-135	pH	78.38 hours	48 hours	J (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-103031-1	M-131	pH	78.1 hours	48 hours	J (all detects)	P
440-103031-1	M-25	pH	77.87 hours	48 hours	J (all detects)	P
440-103031-1	M-22A	pH	76.87 hours	48 hours	J (all detects)	P
440-103031-1	M-38	pH	75.58 hours	48 hours	J (all detects)	P
440-103031-1	M-37 DUP-3	pH	75.05 hours	48 hours	J (all detects)	P
440-108677-1	ART-1	pH	48.97 hours	48 hours	J (all detects)	P
440-108677-1	ART-2	pH	48.93 hours	48 hours	J (all detects)	P
440-108677-1	ART-3	pH	48.88 hours	48 hours	J (all detects)	P
440-108677-1	ART-4	pH	48.83 hours	48 hours	J (all detects)	P
440-108677-1	ART-8	pH	48.67 hours	48 hours	J (all detects)	P
440-108677-1	ART-9	pH	48.73 hours	48 hours	J (all detects)	P
440-108677-1	PC-99R2/R3	pH	49.63 hours	48 hours	J (all detects)	P
440-108677-1	PC-115R	pH	49.58 hours	48 hours	J (all detects)	P
440-108677-1	PC-116R	pH	49.53 hours	48 hours	J (all detects)	P
440-108677-1	PC-117	pH	49.48 hours	48 hours	J (all detects)	P
440-108677-1	PC-118	pH	49.43 hours	48 hours	J (all detects)	P
440-108677-1	PC-119	pH	49.38 hours	48 hours	J (all detects)	P
440-108677-1	PC-120	pH	49.28 hours	48 hours	J (all detects)	P
440-108677-1	PC-121	pH	49.23 hours	48 hours	J (all detects)	P
440-108677-1	PC-133	pH	49.33 hours	48 hours	J (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-108677-1	PC-150	pH	48.62 hours	48 hours	J (all detects)	P
440-108677-1	ART-7B	pH	48.78 hours	48 hours	J (all detects)	P
440-108680-1	I-O	pH	55.05 hours	48 hours	J (all detects)	P
440-108680-1	I-W	pH	54.92 hours	48 hours	J (all detects)	P
440-108680-1	I-P	pH	54.85 hours	48 hours	J (all detects)	P
440-108680-1	I-H	pH	54.73 hours	48 hours	J (all detects)	P
440-108680-1	I-U	pH	54.5 hours	48 hours	J (all detects)	P
440-108680-1	I-T	pH	54.38 hours	48 hours	J (all detects)	P
440-108680-1	I-G	pH	54.23 hours	48 hours	J (all detects)	P
440-108680-1	I-Q	pH	54.1 hours	48 hours	J (all detects)	P
440-108680-1	I-F	pH	53.88 hours	48 hours	J (all detects)	P
440-108680-1	I-X	pH	53.73 hours	48 hours	J (all detects)	P
440-108680-1	I-N	pH	53.63 hours	48 hours	J (all detects)	P
440-108680-1	I-E	pH	53.38 hours	48 hours	J (all detects)	P
440-108680-1	I-M	pH	53.28 hours	48 hours	J (all detects)	P
440-108680-1	I-D	pH	53.07 hours	48 hours	J (all detects)	P
440-108680-1	I-C	pH	52.9 hours	48 hours	J (all detects)	P
440-108680-1	I-S	pH	52.75 hours	48 hours	J (all detects)	P
440-108680-1	I-L	pH	52.6 hours	48 hours	J (all detects)	P
440-108680-1	I-Y	pH	52.52 hours	48 hours	J (all detects)	P
440-108680-1	I-R	pH	52.43 hours	48 hours	J (all detects)	P
440-108680-1	I-B	pH	52.32 hours	48 hours	J (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-108680-1	I-AB	pH	53.52 hours	48 hours	J (all detects)	P
440-108680-1	I-AA	pH	53.37 hours	48 hours	J (all detects)	P
440-108680-1	I-AR	pH	53.22 hours	48 hours	J (all detects)	P
440-109318-1	M-140	pH	74.83 hours	48 hours	J (all detects)	P
440-109318-1	M-64	pH	73.75 hours	48 hours	J (all detects)	P
440-109318-1	M-66 DUP-1	pH	72.85 hours	48 hours	J (all detects)	P
440-109318-1	M-79	pH	72.5 hours	48 hours	J (all detects)	P
440-109318-1	M-69	pH	72.12 hours	48 hours	J (all detects)	P
440-109318-1	M-136	pH	71.27 hours	48 hours	J (all detects)	P
440-109318-1	M-135	pH	71.00 hours	48 hours	J (all detects)	P
440-109318-1	M-134	pH	70.63 hours	48 hours	J (all detects)	P
440-109318-1	M-131	pH	70.25 hours	48 hours	J (all detects)	P
440-109318-1	M-57A	pH	69.92 hours	48 hours	J (all detects)	P
440-109318-1	M-126	pH	69.62 hours	48 hours	J (all detects)	P
440-109318-1	EB-4	pH	72.75 hours	48 hours	J (all detects)	P
440-109318-1	FB-1	pH	69.58 hours	48 hours	J (all detects)	P
440-109318-1	EB-4	Hexavalent chromium	5 days	24 hours	R (all non-detects)	P
440-109318-1	FB-1	Hexavalent chromium	5 days	24 hours	R (all non-detects)	P
440-110425-1	TR-1	pH	71.22 hours	48 hours	J (all detects)	P
440-110425-1	TR-4	pH	70.38 hours	48 hours	J (all detects)	P
440-110425-1	TR-3	pH	69.72 hours	48 hours	J (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-110425-1	TR-5	pH	69.05 hours	48 hours	J (all detects)	P
440-110425-1	TR-6	pH	68.3 hours	48 hours	J (all detects)	P
440-110425-1	TR-7	pH	67.88 hours	48 hours	J (all detects)	P
440-110520-1	PC-62	pH	50.15 hours	48 hours	J (all detects)	P
440-110520-1	PC-68	pH	49.67 hours	48 hours	J (all detects)	P
440-110520-1	PC-86	pH	49.27 hours	48 hours	J (all detects)	P
440-110520-1	PC-122	pH	48.65 hours	48 hours	J (all detects)	P
440-110520-1	PC-53	pH	48.28 hours	48 hours	J (all detects)	P
440-110604-1	TR-8	pH	58.63 hours	48 hours	J (all detects)	P
440-110604-1	M-120	pH	53.93 hours	48 hours	J (all detects)	P
440-110604-1	M-118	pH	52.78 hours	48 hours	J (all detects)	P
440-110604-1	M-121	pH	51.98 hours	48 hours	J (all detects)	P
440-110832-1	PC-148 DUP-2	pH	51.90 hours	48 hours	J (all detects)	P
440-110832-1	PC-149	pH	51.25 hours	48 hours	J (all detects)	P
440-110832-1	PC-143	pH	50.78 hours	48 hours	J (all detects)	P
440-110832-1	EB-6	pH	50.63 hours	48 hours	J (all detects)	P
440-110834-1	TR-11	pH	51.22 hours	48 hours	J (all detects)	P
440-110834-1	TR-12	pH	49.25 hours	48 hours	J (all detects)	P
440-110834-1	M-152	pH	53.05 hours	48 hours	J (all detects)	P
440-110834-1	M-156	pH	52.27 hours	48 hours	J (all detects)	P
440-110915-1	M-5A	pH	98.25 hours	48 hours	J (all detects)	P

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
440-110915-1	M-7B	pH	101.27 hours	48 hours	J (all detects)	P
440-111099-1	M-165	pH	48.18 hours	48 hours	J (all detects)	P
440-111099-1	M-186	pH	48.98 hours	48 hours	J (all detects)	P
440-111099-1	M-153	pH	49.65 hours	48 hours	J (all detects)	P
440-111099-1	M-149	pH	50.15 hours	48 hours	J (all detects)	P
440-111099-1	M-117	pH	52.57 hours	48 hours	J (all detects)	P
440-111102-1	PC-54	pH	51.07 hours	48 hours	J (all detects)	P
440-111102-1	M-48A	pH	50.60 hours	48 hours	J (all detects)	P
440-111102-1	PC-21A	pH	50.32 hours	48 hours	J (all detects)	P
440-111102-1	PC-71	pH	49.60 hours	48 hours	J (all detects)	P
440-111102-1	PC-72	pH	49.30 hours	48 hours	J (all detects)	P
440-111102-1	PC-73	pH	49.00 hours	48 hours	J (all detects)	P
440-111102-1	PC-40	pH	48.58 hours	48 hours	J (all detects)	P
440-111102-1	EB-5	pH	48.93 hours	48 hours	J (all detects)	P
440-111102-1	M-95DL	Hexavalent chromium	41.9 hours	24 hours	J- (all detects)	A
440-112107-1	EB-16	Hexavalent chromium	26.17 hours	24 hours	UJ (all non-detects)	P

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

SDG	Laboratory Blank ID	Analyte	Maximum Concentration	Associated Samples
440-102526-1	ICB/CCB	Perchlorate	0.811 ug/L	I-S I-L I-Y I-R I-B I-AR
440-102689-1	PB (prep blank)	Perchlorate	0.856 ug/L	PC-127 PC-54 M-48A PC-37 PC-73 PC-72 PC-71 M-44 M-95 M-23 DUP-1
440-110915-1	PB (prep blank)	Chloride	0.387 mg/L	All samples in SDG 440-110915-1
440-110915-1	ICB/CCB	Chloride Sulfate	0.386 mg/L 0.372 mg/L	All samples in SDG 440-110915-1

Sample concentrations were compared to concentrations detected in the method blanks as required by the QAPP. No sample data was qualified.

V. Field Blanks

Samples MEB-1 (from SDGs 440-99068-1, 440-101929-1, 440-104381-1, 440-107507-1, and 440-113481-1), EB-1 (from SDGs 440-102831-1 and 440-108808-1), EB-2 (from SDGs 440-102951-1 and 440-108986-1), EB-03 (from SDG 440-109155-1), EB-4 (from SDG 440-109318-1), EB-8 (from SDG 440-109936-1), EB-9 (from SDG 440-110520-1), EB-10 (from SDG 440-110670-1), EB-6 (from SDG 440-110832-1), E. Blank (from SDG 440-110834-1), EB-7 (from SDG 440-110962-1), EB-5 (from SDG 440-111102-1), EB-11 (from SDG 440-111211-1), EB-13 (from SDG 440-111334-1), EB-12 (from SDG 440-111455-1), EB-14 (from SDG 440-111754-1), EB-15 (from SDG 440-111886-1), and EB-16 (from SDG 440-112107-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-108986-1	EB-2	05/06/15	Perchlorate	2.4 ug/L	PC-131 PC-82 PC-79 PC-110 PC-108 HM-2 HMW-15 HMW-14
440-109936-1	EB-8	05/14/15	Perchlorate	1.3 ug/L	PC-97 PC-90 PC-91 PC-92 PC-94 PC-58 PC-56 PC-60 PC-59
440-110834-1	E. Blank	05/21/15	Total dissolved solids	43 mg/L	TR-2 TR-11 TR-12 M-152 M-156
440-111754-1	EB-14	06/02/15	Total dissolved solids	520 mg/L	AA-01 PC-66 M-144 M-146 M-147 M-142 M-145 M-139 M-141 M-148A M-52 M-31A
440-111886-1	EB-15	06/03/15	Total dissolved solids	610 mg/L	M-125 M-123 M-128 M-124 M-137 M-138 DUP-5 DUP-6
440-111887-1	EB-15	06/03/15	Total dissolved solids	610 mg/L	All samples in SDG 440-111887-1
440-112107-1	EB-16	06/05/15	Total dissolved solids	630 mg/L	M-77 M-132 M-133 M-21 M-13 M-12A M-11 DUP-7

Samples FB-1 (from SDGs 440-102689-1 and 440-109318-1) and FB-2 (from SDG 440-111211-1) was identified as a field blank. No contaminants were found.

Sample concentrations were compared to concentrations detected in the field blanks as required by the QAPP. No sample data was qualified with the following exceptions:

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
440-108986-1	PC-82	Perchlorate	13 ug/L	13J+ ug/L
440-108986-1	HMW-15	Perchlorate	8.0 ug/L	8.0J+ ug/L
440-111754-1	AA-01	Total dissolved solids	4400 mg/L	4400J+ mg/L
440-111754-1	M-144	Total dissolved solids	4300 mg/L	4300J+ mg/L
440-111754-1	M-146	Total dissolved solids	4400 mg/L	4400J+ mg/L
440-111754-1	M-147	Total dissolved solids	4700 mg/L	4700J+ mg/L
440-111754-1	M-142	Total dissolved solids	2600 mg/L	2600J+ mg/L
440-111754-1	M-145	Total dissolved solids	2900 mg/L	2900J+ mg/L
440-111754-1	M-139	Total dissolved solids	2800 mg/L	2800J+ mg/L
440-111754-1	M-52	Total dissolved solids	5000 mg/L	5000J+ mg/L
440-111886-1	M-128	Total dissolved solids	2500 mg/L	2500J+ mg/L
440-111886-1	M-124	Total dissolved solids	3200 mg/L	3200J+ mg/L
440-111886-1	M-137	Total dissolved solids	2100 mg/L	2100J+ mg/L
440-111886-1	M-138	Total dissolved solids	2200 mg/L	2200J+ mg/L
440-111886-1	DUP-5	Total dissolved solids	3100 mg/L	3100J+ mg/L
440-111886-1	DUP-6	Total dissolved solids	2400 mg/L	2400J+ mg/L
440-111887-1	M-10	Total dissolved solids	2400 mg/L	2400J+ mg/L
440-112107-1	M-77	Total dissolved solids	3000 mg/L	3000J+ mg/L
440-112107-1	M-132	Total dissolved solids	1300 mg/L	1300J+ mg/L

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
440-112107-1	M-133	Total dissolved solids	5900 mg/L	5900J+ mg/L
440-112107-1	M-21	Total dissolved solids	3400 mg/L	3400J+ mg/L
440-112107-1	M-13	Total dissolved solids	3100 mg/L	3100J+ mg/L
440-112107-1	M-11	Total dissolved solids	2300 mg/L	2300J+ mg/L

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-108986-1	PC-82MS/MSD (PC-82)	Perchlorate	129 (75-125)	129 (75-125)	J+ (all detects)	A
440-109155-1	PC-82MS/MSD (PC-134A)	Perchlorate	129 (75-125)	129 (75-125)	J+ (all detects)	A

Relative percent differences (RPD) were within QC limits.

VIII. Duplicates

Duplicate (DUP) sample analysis was performed on associated project samples. Results were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples M-44 and DUP-1 (from SDG 440-102689-1), samples M-68 and DUP-2 (from SDG 440-102951-1), samples M-81A and DUP-4 (from SDG 440-102951-1), samples M-37 and DUP-3 (from SDG 440-103031-1), samples M-66 and DUP-1 (from SDG 440-109318-1), samples PC-144 and DUP-1 (from SDG 440-110670-1), samples PC-148 and DUP-2 (from SDG 440-110832-1), samples M-25 and DUP-3 (from SDG 440-110962-1), samples M-44 and DUP-4 (from SDG 440-111102-1), samples M-124 and DUP-5 (from SDG 440-111886-1) and samples M-10 (from SDG 440-111887-1) and DUP-6 (from SDG 440-111886-1), samples DUP-6 (from SDG 440-111886-1) and M-10 (from SDG 440-111887-1), and samples M-12A and DUP-7 (from SDG 440-112107-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-44	DUP-1				
440-102689-1	Hexavalent chromium	940 ug/L	930 ug/L	1 (≤30)	-	-	-
440-102689-1	Perchlorate	700000 ug/L	800000 ug/L	13 (≤30)	-	-	-
440-102689-1	pH	7.52 SU	7.54 SU	0 (≤30)	-	-	-
440-102689-1	Total dissolved solids	8500 mg/L	8600 mg/L	1 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-68	DUP-2				
440-102951-1	Perchlorate	210000 ug/L	170000 ug/L	21 (≤30)	-	-	-
440-102951-1	pH	7.56 SU	7.58 SU	0 (≤30)	-	-	-
440-102951-1	Total dissolved solids	6000 mg/L	6000 mg/L	0 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-81A	DUP-4				
440-102951-1	Perchlorate	640000 ug/L	620000 ug/L	3 (≤30)	-	-	-
440-102951-1	pH	7.66 SU	7.70 SU	1 (≤30)	-	-	-
440-102951-1	Total dissolved solids	4400 mg/L	4500 mg/L	2 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-37	DUP-3				
440-103031-1	Hexavalent Chromium	9.3 ug/L	8.4 ug/L	10 (≤30)	-	-	-
440-103031-1	Perchlorate	1300000 ug/L	1400000 ug/L	7 (≤30)	-	-	-
440-103031-1	pH	7.20 SU	7.21 SU	0 (≤30)	-	-	-
440-103031-1	Total dissolved solids	4300 mg/L	4600 mg/L	7 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-66	DUP-1				
440-109318-1	Perchlorate	1900000 ug/L	2100000 ug/L	10 (≤30)	-	-	-
440-109318-1	Total dissolved solids	14000 mg/L	14000 mg/L	0 (≤30)	-	-	-
440-109318-1	pH	7.21 SU	7.24 SU	0 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		PC-144	DUP-1				
440-110670-1	Perchlorate	13000 ug/L	13000 ug/L	0 (≤30)	-	-	-
440-110670-1	Total dissolved solids	8300 mg/L	8500 mg/L	2 (≤30)	-	-	-
440-110670-1	pH	7.42 SU	7.42 SU	0 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		PC-148	DUP-2				
440-110832-1	Perchlorate	33000 ug/L	28000 ug/L	-	5000 (≤10000)	-	-
440-110832-1	Total dissolved solids	7100 mg/L	7100 mg/L	0 (≤30)	-	-	-
440-110832-1	pH	7.64 SU	7.73 SU	1 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-25	DUP-3				
440-110962-1	Perchlorate	430000 ug/L	460000 ug/L	7 (≤30)	-	-	-
440-110962-1	Nitrate as N	20 mg/L	19 mg/L	5 (≤30)	-	-	-
440-110962-1	Chlorate	1900000 ug/L	1900000 ug/L	0 (≤30)	-	-	-
440-110962-1	Total dissolved solids	7500 mg/L	7400 mg/L	1 (≤30)	-	-	-
440-110962-1	pH	7.77 SU	7.76 SU	0 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-44	DUP-4				
440-111102-1	Hexavalent chromium	860 ug/L	930 ug/L	8 (≤30)	-	-	-
440-111102-1	Perchlorate	750000 ug/L	720000 ug/L	4 (≤30)	-	-	-
440-111102-1	Total dissolved solids	8800 mg/L	8800 mg/L	0 (≤30)	-	-	-
440-111102-1	pH	7.69 SU	7.68 SU	0 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-124	DUP-5				
440-111886-1	Perchlorate	1700 ug/L	1600 ug/L	6 (≤30)	-	-	-
440-111886-1	Total dissolved solids	3200 mg/L	3100 mg/L	3 (≤30)	-	-	-
440-111886-1	pH	7.66 SU	7.84 SU	2 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		DUP-6	M-10				
440-111886-1	Perchlorate	6700 ug/L	7200 ug/L	7 (≤30)	-	-	-
440-111886-1	Total dissolved solids	2400 mg/L	2400 mg/L	0 (≤30)	-	-	-
440-111886-1	pH	7.16 SU	7.02 SU	2 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		DUP-6	M-10				
440-111887-1	Perchlorate	6700 ug/L	7200 ug/L	7 (≤30)	-	-	-
440-111887-1	Total dissolved solids	2400 mg/L	2400 mg/L	0 (≤30)	-	-	-
440-111887-1	pH	7.16 SU	7.02 SU	2 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-12A	DUP-7				
440-112107-1	Hexavalent Chromium	10000 ug/L	10000 ug/L	0 (≤30)	-	-	-
440-112107-1	Perchlorate	230000 ug/L	230000 ug/L	0 (≤30)	-	-	-
440-112107-1	Nitrate as N	9.0 mg/L	14 mg/L	-	5.0 (≤2.2)	J (all detects)	A
440-112107-1	Chlorate	2000000 ug/L	2000000 ug/L	0 (≤30)	-	-	-
440-112107-1	Total dissolved solids	7200 mg/L	7300 mg/L	1 (≤30)	-	-	-
440-112107-1	pH	8.07 SU	8.07 SU	0 (≤30)	-	-	-

XI. Sample Result Verification

All sample result verifications were acceptable with the following exceptions:

SDG	Sample	Analyte	Finding	Criteria	Flag	A or P
440-111102-1	M-95	Hexavalent chromium	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

Raw data were not reviewed for Stage 2B validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the methods.

In the case where more than one result was reported for an individual sample, the least technically acceptable results were deemed unusable as follows:

SDG	Sample	Analyte	Flag	A or P
440-111102-1	M-95	Hexavalent chromium	DNR	A

Due to holding times exceedances, data was rejected in two samples.

Due to holding time exceedances, MS/MSD %R, and field duplicate difference, data were qualified as estimated in one hundred seventy-nine samples.

Due to equipment blank contamination, data were qualified as estimated in twenty-three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

2015 Annual Remedial Performance Sampling
Wet Chemistry - Data Qualification Summary - SDGs 440-98184-1, 440-99068-1, 440-99129-1, 440-100474-1, 440-101558-1, 440-101655-1, 440-101929-1, 440-102243-1, 440-102526-1, 440-102689-1, 440-102831-1, 440-102951-1, 440-103031-1, 440-103261-1, 440-103265-1, 440-103983-1, 440-104247-1, 440-104381-1, 440-106313-1, 440-106482-1, 440-107316-1, 440-107507-1, 440-107831-1, 440-108677-1, 440-108680-1, 440-108808-1, 440-108986-1, 440-109155-1, 440-109318-1, 440-109936-1, 440-110425-1, 440-110520-1, 440-110604-1, 440-110670-1, 440-110673-1, 440-110832-1, 440-110834-1, 440-110915-1, 440-110962-1, 440-111099-1, 440-111102-1, 440-111211-1, 440-111333-1, 440-111334-1, 440-111455-1, 440-111577-1, 440-111754-1, 440-111886-1, 440-111887-1, 440-112107-1, 440-112454-1, 440-112626-1, 440-113481-1, 440-113571-1, 440-113703-1

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-100474-1	ART-1 ART-2 ART-3 ART-4 ART-6 ART-7B ART-8 ART-9 PC-99R2/R3 PC-115R PC-116R PC-117 PC-118 PC-119 PC-120 PC-121 PC-133 PC-150	pH	J (all detects)	P	Technical holding time (h)
440-101929-1	M-83 ART-7A PC-122 ARP-2A PC-18 PC-55	pH	J (all detects)	P	Technical holding time (h)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-102689-1	PC-123 PC-128 PC-129 PC-130 PC-131 PC-132 PC-124 PC-125 PC-126 PC-127 PC-54 M-48A PC-37 PC-73 PC-72 PC-71 M-44 M-23 DUP-1 FB-1	pH	J (all detects)	P	Technical holding time (h)
440-102831-1	M-64 M-65 M-66 PC-135A PC-136 EB-1	pH	J (all detects)	P	Technical holding time (h)
440-102951-1	M-99 M-31A M-52 M-35 M-19 M-68 M-74 M-73 M-67 M-81A M-80 DUP-2 I-AD I-AC I-K I-Z I-I I-V DUP-4 EB-2 M-12A M-11	pH	J (all detects)	P	Technical holding time (h)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-108677-1	ART-1 ART-2 ART-3 ART-4 ART-8 ART-9 PC-99R2/R3 PC-115R PC-116R PC-117 PC-118 PC-119 PC-120 PC-121 PC-133 PC-150 ART-7B	pH	J (all detects)	P	Technical holding time (H)
440-108680-1	I-O I-W I-P I-H I-U I-T I-G I-Q I-F I-X I-N I-E I-M I-D I-C I-S I-L I-Y I-R I-B I-AB I-AA I-AR	pH	J (all detects)	P	Technical holding time (h)
440-109318-1	M-140 M-64 M-66 DUP-1 M-79 M-69 M-136 M-135 M-134 M-131 M-57A M-126 EB-4 FB-1	pH	J (all detects)	P	Technical holding times (h)
440-109318-1	EB-4 FB-1	Hexavalent chromium	R (all non-detects)	P	Technical holding times (h)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-110425-1	TR-1 TR-4 TR-3 TR-5 TR-6 TR-7	pH	J (all detects)	P	Technical holding times (h)
440-110520-1	PC-62 PC-68 PC-86 PC-122 PC-53	pH	J (all detects)	P	Technical holding times (h)
440-110604-1	TR-8 M-120 M-118 M-121	pH	J (all detects)	P	Technical holding times (h)
440-110832-1	PC-148 DUP-2 PC-149 PC-143 EB-6	pH	J (all detects)	P	Technical holding times (h)
440-110834-1	TR-11 TR-12 M-152 M-156	pH	J (all detects)	P	Technical holding time (h)
440-110915-1	M-5A M-7B	pH	J (all detects)	P	Technical holding times (h)
440-111099-1	M-165 M-186 M-153 M-149 M-117	pH	J (all detects)	P	Technical holding time (h)
440-111102-1	PC-54 M-48A PC-21A PC-71 PC-72 PC-73 PC-40 EB-5	pH	J (all detects)	P	Technical holding time (h)
440-111102-1	M-95DL	Hexavalent chromium	J- (all detects)	A	Technical holding time (h)
440-112107-1	EB-16	Hexavalent chromium	UJ (all non-detects)	P	Technical holding time (h)
440-108986-1	PC-82	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-109155-1	PC-134A	Perchlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
440-112107-1	M-12A DUP-7	Nitrate as N	J (all detects)	A	Field duplicates (difference) (fd)
440-111102-1	M-95	Hexavalent chromium	DNR	A	Overall assessment of data (e)

2015 Annual Remedial Performance Sampling
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDGs 440-98184-1, 440-99068-1, 440-99129-1, 440-100474-1, 440-101558-1, 440-101655-1, 440-101929-1, 440-102243-1, 440-102526-1, 440-102689-1, 440-102831-1, 440-102951-1, 440-103031-1, 440-103261-1, 440-103265-1, 440-103983-1, 440-104247-1, 440-104381-1, 440-106313-1, 440-106482-1, 440-107316-1, 440-107507-1, 440-107831-1, 440-108677-1, 440-108680-1, 440-108808-1, 440-108986-1, 440-109155-1, 440-109318-1, 440-109936-1, 440-110425-1, 440-110520-1, 440-110604-1, 440-110670-1, 440-110673-1, 440-110832-1, 440-110834-1, 440-110915-1, 440-110962-1, 440-111099-1, 440-111102-1, 440-111211-1, 440-111333-1, 440-111334-1, 440-111455-1, 440-111577-1, 440-111754-1, 440-111886-1, 440-111887-1, 440-112107-1, 440-112454-1, 440-112626-1, 440-113481-1, 440-113571-1, 440-113703-1

No Sample Data Qualified in these SDGs

2015 Annual Remedial Performance Sampling
Wet Chemistry - Field Blank Data Qualification Summary - SDGs 440-98184-1, 440-99068-1, 440-99129-1, 440-100474-1, 440-101558-1, 440-101655-1, 440-101929-1, 440-102243-1, 440-102526-1, 440-102689-1, 440-102831-1, 440-102951-1, 440-103031-1, 440-103261-1, 440-103265-1, 440-103983-1, 440-104247-1, 440-104381-1, 440-106313-1, 440-106482-1, 440-107316-1, 440-107507-1, 440-107831-1, 440-108677-1, 440-108680-1, 440-108808-1, 440-108986-1, 440-109155-1, 440-109318-1, 440-109936-1, 440-110425-1, 440-110520-1, 440-110604-1, 440-110670-1, 440-110673-1, 440-110832-1, 440-110834-1, 440-110915-1, 440-110962-1, 440-111099-1, 440-111102-1, 440-111211-1, 440-111333-1, 440-111334-1, 440-111455-1, 440-111577-1, 440-111754-1, 440-111886-1, 440-111887-1, 440-112107-1, 440-112454-1, 440-112626-1, 440-113481-1, 440-113571-1, 440-113703-1

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
440-108986-1	PC-82	Perchlorate	13J+ ug/L	A	be
440-108986-1	HMW-15	Perchlorate	8.0J+ ug/L	A	be

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
440-111754-1	AA-01	Total dissolved solids	4400J+ mg/L	A	be
440-111754-1	M-144	Total dissolved solids	4300J+ mg/L	A	be
440-111754-1	M-146	Total dissolved solids	4400J+ mg/L	A	be
440-111754-1	M-147	Total dissolved solids	4700J+ mg/L	A	be
440-111754-1	M-142	Total dissolved solids	2600J+ mg/L	A	be
440-111754-1	M-145	Total dissolved solids	2900J+ mg/L	A	be
440-111754-1	M-139	Total dissolved solids	2800J+ mg/L	A	be
440-111754-1	M-52	Total dissolved solids	5000J+ mg/L	A	be
440-111886-1	M-128	Total dissolved solids	2500J+ mg/L	A	be
440-111886-1	M-124	Total dissolved solids	3200J+ mg/L	A	be
440-111886-1	M-137	Total dissolved solids	2100J+ mg/L	A	be
440-111886-1	M-138	Total dissolved solids	2200J+ mg/L	A	be
440-111886-1	DUP-5	Total dissolved solids	3100J+ mg/L	A	be
440-111886-1	DUP-6	Total dissolved solids	2400J+ mg/L	A	be
440-111887-1	M-10	Total dissolved solids	2400J+ mg/L	A	be
440-112107-1	M-77	Total dissolved solids	3000J+ mg/L	A	be
440-112107-1	M-132	Total dissolved solids	1300J+ mg/L	A	be
440-112107-1	M-133	Total dissolved solids	5900J+ mg/L	A	be
440-112107-1	M-21	Total dissolved solids	3400J+ mg/L	A	be
440-112107-1	M-13	Total dissolved solids	3100J+ mg/L	A	be
440-112107-1	M-11	Total dissolved solids	2300J+ mg/L	A	be

APPENDIX E
ELECTRONIC DATA DELIVERABLE (EDD)

Comments Regarding Appendix E:

There is no available well screen information in the January 2014 All Wells Database for following wells: H-28A, HM-2, HMW-13, HMW-14, HMW-15, HMW-16, MC-3, MC-6, and MC-7. The sample depth fields in the Electronic Data Deliverable (EDD) have been left blank and the sample_comment field notes: No screen information available. In future EDDs, the Trust will include sample depths for these wells when that information becomes available.

ATTACHMENT A
PHASE III GROUNDWATER MODEL REFINEMENT

Prepared for
Nevada Environmental Response Trust

Project Number
21-37300A

Prepared by
Ramboll Environ
Emeryville, California

Date
October 31, 2015

PHASE III GROUNDWATER MODEL REFINEMENT

NEVADA ENVIRONMENTAL RESPONSE TRUST SITE
HENDERSON, NEVADA

Date	**October 31, 2015**
Prepared by	**Ramboll Environ**
Description	**DRAFT Phase III Groundwater Model Refinement**

Project No **21-37300A**

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RAMBOLL ENVIRON

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1. INTRODUCTION

On behalf of the Nevada Environmental Response Trust (the Trust), Ramboll Environ US Corporation (Ramboll Environ) has prepared this Phase III Groundwater Model Refinement report describing updates to the groundwater flow model (the "Phase III Model") for the Nevada Environmental Response Trust Site (the Site), located in Clark County, Nevada (Figure 1).

The Phase III Model is a refinement to the previous version of the model and was developed to support the optimization of the existing groundwater extraction and treatment system (GWETS) under the 2015 Continuous Optimization Program (COP) and to support the calculation of GWETS performance metrics provided in semi-annual and annual performance reports. The performance metrics were described in the 2013 GWETS Optimization Project Work Plan (ENVIRON 2013), approved by the Nevada Division of Environmental Protection (NDEP) on December 3, 2013 (NDEP 2013). The Phase III Model will be refined further to support the Remedial Investigation and Feasibility Study (RI/FS), as described in the RI/FS Work Plan (ENVIRON 2014b). As part of the RI/FS modeling work, a comprehensive model documentation report will be developed.

Throughout the remainder of this report the Phase III Model will be referred to simply as "the model", except where there is a need to differentiate between the various versions. Figure 1 depicts the current extent of the model.

1.1 Previous Model Versions

The initial version of the groundwater model for the Site was developed by Northgate Environmental Management Inc. (Northgate) and was approved on April 4, 2013 by NDEP for use in capture zone evaluation. This model, referred to as the "Northgate Model", is a steady-state flow model calibrated to Site conditions in 2008/2009, as documented in the Capture Zone Evaluation Report (Northgate 2010). Refinements to the steady-state model are being implemented by Ramboll Environ in phases.

The Phase I Model was documented in an attachment to the 2013 Semi-Annual Remedial Performance Report for Perchlorate and Chromium (ENVIRON 2014a). The first phase of model refinements included: 1) an update of the model to reflect current pumping and injection rates of the GWETS, as well as remediation systems of American Pacific Corporation (AMPAC) and Olin/ Stauffer/Syngenta/Montrose (OSSM); and 2) preliminary refinement of the model representation of stream-aquifer interaction near Las Vegas Wash. The model report included a conceptual water budget for the model area. The Phase I Model was used to support the calculation of GWETS performance metrics presented in the 2013 Semi-Annual Report.

The Phase II Model was documented in an attachment to the 2014 Annual Performance Report (ENVIRON 2014c). The second phase of model refinements included: 1) revision of model hydraulic conductivities to incorporate recent aquifer testing results, and 2) further refinements to the representation of stream-aquifer interactions at Las Vegas Wash. The conceptual water balance was also refined in the Phase II Model report to incorporate additional information and updates to the conceptual model.

1.2 Phase III Model Refinements

The third phase of model refinements are summarized in this section and described in more detail in the remainder of this report. The Phase III Model incorporates the detailed evaluation

of subsurface conditions and hydrogeology in the area downgradient of the NERT Site conducted as part of the 2015 COP. This detailed evaluation included a refined interpretation of the contact between the alluvium and the Upper Muddy Creek formation (UMCf) and a summary of aquifer testing results. In addition, the Phase III Model refinements address most of the NDEP comments on the Phase II Model received via email.

Phase III Model refinements include the following:

- The model boundary has been extended to the north and east to include inflow from the east and northern mountain front recharge.
- The stream boundary has been revised to better represent the current width and streamflow of Las Vegas Wash.
- Alluvium thickness has been refined in the area from the northern NERT Site boundary to Las Vegas Wash.
- The conceptual water balance has been updated based on site conditions existing in second quarter 2014. The flows simulated in the groundwater model have been adjusted to match the conceptual water budget.
- Areal recharge rates (including rainfall recharge) have been re-evaluated and refined.
- The model has been refined near the AMPAC site to better simulate the influence of AMPAC's groundwater extraction system.
- The newly installed Titanium Metals Corporation (TIMET) extraction well field and barrier wall have been added to the model. All flow barriers used in the model are described in this report.
- Groundwater inflows and outflows across the model boundaries have been refined and further documented.
- The hydraulic conductivity distribution has been updated to incorporate additional aquifer testing data.
- The groundwater model has been re-calibrated to match water level targets from the second quarter of 2014.
- The model representation of evapotranspiration has been updated to incorporate the distribution of phreatophytes mapped using 2014 aerial imagery.
- An initial contaminant transport model has been developed to facilitate the calculation of GWETS metrics for mass flux, which is documented in the GWETS Annual Report.

The following refinements to the model requested by NDEP will be implemented as part of the model development to support of RI/FS.

- The weirs installed in Las Vegas Wash will be explicitly modeled.
- A more comprehensive uncertainty analysis will be conducted.
- The model boundary will be extended to Three Kids Weir and the influence of fault zones in that area will be evaluated.

2. REVISED CONCEPTUAL WATER BALANCE

A conceptual water balance was developed to provide an independent evaluation of the inflows and outflows of groundwater within the model domain that can be used to guide model refinement. The Phase III groundwater model represents the approximately steady-state period in second quarter 2014. The conceptual water balance presented in the Phase II Model report has been updated to account for the change in the extent of the model domain and to reflect refinements in estimates of water balance components. Horizontally, the model domain of the Phase III model has increased by about 4,200 acres as compared to the Phase II model. Vertically, the model domain is unchanged and includes the Shallow and Middle Water Bearing Zones (WBZs), but does not include deeper portions of the Upper Muddy Creek Formation (UMCf). The revised conceptual water balance is presented in Tables 1a and 1b. The methods and data sources for individual water balance components that have been revised are described in the following sub-sections.

2.1 Groundwater Outflows

The major groundwater outflow components in the model area are groundwater extraction, groundwater discharge to Las Vegas Wash, eastern boundary outflow below Las Vegas Wash, and evapotranspiration from shallow groundwater.

2.1.1 Groundwater Extraction

Groundwater pumping in second quarter 2014 was conducted at extraction systems associated with four facilities within the model area: NERT, OSSM, TIMET, and AMPAC. NERT operates three well fields, including the Interceptor Well Field (IWF), the Athens Road Well Field (AWF), and the Seep Well Field (SWF). AMPAC operates three well fields, including the Athens Road Extraction Wells (AREWs), Athens Pen Extraction Wells (APEWs), and Auto Mall Extraction Wells (AMEWs). Extraction well fields are shown in Figure 2a.

Total groundwater pumping at these sites was aggregated from available data for second quarter 2014. At the NERT Site, the average pumping rates for second quarter 2014 for the IWF, AWF and SWF were 74 gallons per minute (gpm) (14,279 cubic feet per day [cfd]), 282 gpm (54,346 cfd), and 488 gpm (94,056 cfd), respectively (ENVIRON 2014c). The combined average pumping rate for this time period was 147 gpm (28,301 cfd) for the OSSM system (de maximis 2014b), 25.5 gpm (4,914 cfd) for the TIMET system (TIMET 2014), and 673 gpm (129,739 cfd) for the AMPAC system (AMPAC 2014). The TIMET well field and the AMPAC AMEWs were not represented in previous versions of the model.

2.1.2 Groundwater Discharge to Las Vegas Wash

Since the rate of groundwater discharge to the Las Vegas Wash cannot be directly measured, this quantity was indirectly estimated by comparing measured sources of inflows and outfalls along the reach of the Las Vegas Wash that forms the northern model boundary. The data compiled for this estimate includes streamflow data from United States Geological Survey (USGS) gauging stations; City of Henderson (COH) treated wastewater outflows; and treated effluent discharge rates from the NERT, TIMET, and AMPAC sites. These data are presented in Table 1a and the locations of USGS stream gauges and outfalls are shown in Figure 2a. The method used to estimate this discharge remains the same as described in the Phase I and Phase II Model reports (ENVIRON 2014a, ENVIRON 2014c), and is summarized as follows.

For this analysis, the reach of Las Vegas Wash adjoining the model domain was divided into two sub-reaches bounded by USGS stream gauges. Reach A extends from the Las Vegas Wasteway Gauge (#09419679) to the Pabco Road Gauge (#09419700), and includes a tributary of Las Vegas Wash (Duck Creek, #09419696) and inflows from several wastewater outfalls. Reach B extends from the Pabco Road Gauge to the Three Kids Gauge (#09419753), and includes a storm water channel (C-1) that had no flow during the water balance period.

Conceptually, the calculation performed for each sub-reach involved summing all known inflows and outflows of surface water. After performing the summation, any missing flow was assumed to originate from groundwater discharges along the length of the sub-reach. This calculation did not separately estimate potential seepage from Las Vegas Wash due to pumping at the Seep Well Field (SWF), instead presenting overall groundwater discharge to Las Vegas Wash as a net outflow.

Calculation of Average Streamflow by Gauge

The daily streamflow data from the second quarter of 2014 were downloaded from the USGS website[1] for the above mentioned stream gauge stations. Since the purpose of the water balance analysis is to estimate groundwater inflow, the streamflow data was adjusted to remove flow measurements affected by rainfall events prior to calculating the overall average flow for the water balance period. To identify streamflow measurements affected by rainfall, historical stream gauge and rainfall data[2] from 2012 to 2014 were evaluated to determine how rainfall is correlated with changes in streamflow. By plotting daily streamflow against total rainfall over the prior two days, it was observed that rainfall events with more than 15 mm accumulation over 2 days produced a significant rise in streamflow over the baseline values. Streamflow values affected by rainfall were excluded when computing the average streamflow by station. The resulting average values are shown in the water balance calculations for each reach in Table 1a.

Calculation of Surface Water Lost to Evaporation

The portion of the streamflow in Las Vegas Wash lost to evaporation was estimated from the area of Las Vegas Wash and literature values of evaporation rates. The surface area of Las Vegas Wash (including Duck Creek) between the Las Vegas Wasteway and Three Kids gauging stations was estimated from an aerial photo as 450 acres. Available daily evaporation data from 1997-1999 for four stations located in or near Lake Mead indicate an average evaporation rate of 81 inches per year (Westenburg et al. 2006).[3] Multiplying the area of Las Vegas Wash by the evaporation rate results in an estimated 4.2 cfs of surface water evaporated from Las Vegas Wash within this area. This value was allocated to Reaches A and B based on the relative area of each reach, resulting in outflows of 2.5 and 1.7 cfs.

Estimation of Groundwater Discharge to Reach A

The surface inflows to Reach A are listed in Calculation A on Table 1a. These inflows, which total 293 cfs, include average flows measured at USGS stream gauges (calculated using the previously mentioned procedure), and average flows recorded at treated wastewater outfalls. The COH wastewater outfall reportedly discharged 19.7 cfs to Las Vegas Wash during second

[1] Data downloaded from http://waterdata.usgs.gov/usa/nwis/sw on March 3, 2015.
[2] Data measured daily at McCarran Airport.
[3] Evaporation rates for second quarter 2014 were not available, but are not expected to be significantly different than those from 1997-1999.

quarter 2014.[4] The AMPAC outfall location is very close to the NERT Site discharge location and reportedly produces effluent at a rate roughly equal to the combined extraction rates from the AMPAC wells.[5] The average NERT Site, AMPAC, and TIMET discharges outfall to Las Vegas Wash were reported as 2.0 cfs,[6] 1.4 cfs, and 6.1 cfs[5] in second quarter 2014, respectively.

The surface water outflows from Reach A, which total 296.9 cfs, include evaporation (calculated using the previously mentioned procedure) and measured flow at the Pabco Road Gauge. The difference between these total inflows and outflows, 4.0 cfs, is attributed to net groundwater discharge to Reach A.

Estimation of Groundwater Discharge to Reach B

As illustrated in Calculation B on Table 1a, surface inflow to Reach B is estimated as the average measured flow at the Pabco Road Gauge (294.4 cfs). Outflows from Reach B consist of evaporation and average measured flow at the Three Kids Gauge, totaling 297.5 cfs. The difference between these total inflows and outflows, 3.1 cfs, is attributed to groundwater discharge to Reach B.

Estimation of Groundwater Discharge to Las Vegas Wash in the Conceptual Model Domain

For the purposes of the water balance, the groundwater discharges to Reaches A and B required adjustment to exclude groundwater flow outside the model domain. This was done based on the linear extent of each Reach within the model domain. For Reach A, it was estimated that 71% of the estimated discharge to the Wash (2.8 cfs) was within the model domain. For Reach B, it was estimated that 49% of the estimated discharge to the Wash (1.5 cfs) was within the model domain. The total groundwater discharge to the Wash of 4.4 cfs (370,000 cfd) was applied to the overall conceptual water balance.

2.1.3 Evapotranspiration From Groundwater

Evapotranspiration from shallow groundwater may occur in the areas of phreatophytic vegetation found along the Las Vegas Wash. In the Las Vegas Valley, these plant species include salt grass, mesquite, tule, marsh grass, cottonwood, and willow (USGS 1996). Near the Wash, the main phreatophyte is saltcedar (BRC 2010).

To estimate the site-specific evapotranspiration rate, reference evapotranspiration rates were applied to a recent estimate of the phreatophytic vegetation coverage area. The area of vegetation coverage has varied over time due to construction activities near the Wash. To represent the water balance period, the extent of phreatophytic vegetation was digitized in GIS from an aerial photograph dated March 2014,[7] resulting in a total area of approximately 240 acres (Figure 2b). Reference evapotranspiration rates for the Las Vegas Valley have been reported ranging from 3.9 to 5.2 feet per year for pasture grass.[8] As in previous versions of the conceptual water balance, a potential evapotranspiration rate of approximately 4 feet per year was used. Applying this rate to the phreatophytic vegetation extent shown in Figure 2b results in maximum potential evaporation rate of 115,000 cfd. This represents the maximum value because it assumes that the area is completely covered with phreatophytes and that the water

[4] Per data received via email from Howard Analla of the COH, dated 7/09/2013.
[5] Per email communication with Gary Carter of AMPAC, dated 9/10/2013.
[6] NERT Effluent Records, NPDES Permit number – NV0023060.
[5] Per data received via email from Sylvia Dahl of NDEP, dated 6/6/2014.
[7] Received from SNWA via mail on 08/26/2015
[8] http://water.nv.gov/mapping/et/et_general.cfm, downloaded on 04/9/2015

table is always within the root zone. In Table 1b, this maximum value was reduced by 85% to account for the portion of phreatophytic vegetation areas with a water table below the root zone and the sparseness of vegetation in much of the area.

2.2 Groundwater Inflows

The major groundwater inflow components in the model domain are areal recharge, focused recharge from surface water bodies, mountain block recharge from the northern and southern boundaries of the model, western boundary inflows, and vertical inflow from the deep UMCf. These components have been revised for both the conceptual water balance and the Phase III Model as described below and shown in Table 1b.

2.2.1 Areal Recharge

Potential sources of areal recharge identified within the model domain include rainfall infiltration, and recharge associated with residential, industrial, and irrigated land uses.

Precipitation Recharge

Rainfall infiltration was evaluated as a potential source groundwater inflow in the conceptual water balance. The average precipitation rate for the period 1980-2014 near the site is approximately 5 inches per year.[9] Historical recharge estimation studies for the Nevada groundwater basins suggested that precipitation recharge is negligible in basins experiencing less than 8 inches of precipitation per year (Maxey and Eakin 1949). The USGS regional study for the Las Vegas valley (USGS 1996) indicates that precipitation recharge is negligible in the valley, consistent with the findings reported by Maxey and Eakin. Based on an empirical relationship between evapotranspiration and rainfall, given the site climate and under bare land cover the precipitation recharge was estimated as negligible (Sanford and Selnick 2013). Hence, precipitation recharge in undeveloped areas was excluded from both the conceptual water balance and the Phase III Model.

Residential Areas

Groundwater recharge in residential areas was assumed to originate from municipal water supply lost to groundwater through leaky distribution pipelines. This value was estimated using water supply data provided by COH.[10] For 2014, the total water supplied to COH was 25 million gallons. Out of the total supplied water about 3 percent (1 million gallons) remain unaccounted for. For the recharge estimations, the annual estimate of unaccounted water was distributed over the total COH area of 107 square miles,[11] resulting in a recharge rate of approximately 9.2 X 10^{-5} feet per day. The total residential area within the model domain is about 14 square miles or 3.93 X 10^{8} square feet, which results into the total recharge flow to the model domain of 36,000 cubic feet per day. Additional recharge from irrigation of residential landscaping is assumed to be negligible compared to the rate from leakage.

Industrial Areas

The groundwater recharge rate for industrial areas was estimated using a similar approach as for the residential areas. The water supply data used were annual raw water delivery and wastewater generation totals for the BMI complex between 2011 and 2013. The total water

[9] Based on climate data produced by Oregon State University's PRISM Climate Group (PRISM 2013).
[10] As per telephone communication with Tim Kelly at the COH Water Reclamation Facility on May 13, 2015.
[11] http://www.cityofhenderson.com/

supplied to the BMI complex during this period was approximately 5,413 acre feet per year.[12] Out of this, approximately 65 acre feet per year were returned as wastewater. Hence, about 5,348 acre feet per year of water was used in the complex. The total area of BMI complex is about 5,000 acres.[13] Assuming that 25% of water used in the complex is lost to leakage from underground distribution pipelines (Lerner 2002), the groundwater recharge rate from industrial areas within model domain would be approximately 7.3 X 10^{-4} feet per day. If we assume that industrial water use in the model area is similar to that at the BMI complex, applying this rate to the total industrial area (4.2 X 10^{7} square feet) results in an estimated total recharge flow of 30,786 cubic feet per day.

Golf Course Irrigation

The Chimera Golf Club course in the Tuscany Village development area has an irrigated area of 128 acres within the model domain. Typically, excess irrigation water is applied to turf grass to prevent salt build-up in the root zone. The amount of turf irrigation water that recharges groundwater can generally be estimated as 25 percent of the annual consumptive use (BRC 2008). The Clark County Area Wide Water Quality Management Plan for 2009 reported the total water usage by the golf course as 674 acre feet per year.[14] Based on these values, an average recharge rate of 1.78 X 10^{-3} feet per day has been estimated for the golf course area. This corresponds to a total recharge flow of approximately 10,000 cubic feet per day.

The distribution of areal recharge rates is shown on Figure 3. The recharge flows to groundwater are presented in Table 2.

2.2.2 Focused Recharge

Focused recharge from several surface water features in the model domain were evaluated separately and incorporated into the water balance and the Phase III Model.

Bird Viewing Preserve

A significant source of surficial recharge to groundwater is a series of unlined ponds operated by COH as a bird viewing preserve. An average of 1.21 MGD of inflow to the ponds was recorded by COH for second quarter 2014. The ponds have an area of approximately 110 acres. Assuming COH is maintaining a relatively constant level of surface water in the ponds, and using average evaporation rate of 81 inches per year,[15] the recharge from the ponds to the shallow groundwater aquifer was estimated to be 0.015 feet per day. Since the water-filled area of the ponds is about 2.68 X 10^{6} square feet, the total volumetric recharge rate for the ponds was estimated to be approximately 40,000 cfd.

Ponds and Trenches

The OSSM and TIMET sites operate infiltration trenches just downgradient of their extraction wells for disposal of treated groundwater (Figure 3). Based on the OSSM second quarter 2014 monitoring report, an average of 147 gpm (28,000 cfd) of water was discharged to the trenches (Hargis and Associates 2014). This flow was applied as a recharge zone in the model with a recharge rate of 0.21 ft/day. The total discharge to the TIMET trenches for second quarter 2014

[12] Received from Weiquan Dong of NDEP via email on 05/15/2014.
[13] http://www.ndep.nv.gov/bmi/index.htm
[14] http://www.clarkcountynv.gov/blob/public_communications/120709_WQMP_FINAL_REVISED.pdf
[15] Data received from Michael T. Moreo of USGS via email on 09/03/2013.

was reported as 25.5 gpm (4,900 cfd) (GEI 2014b). This discharge was applied in the model as a recharge zone with a recharge rate of 0.053 ft/day (Figure 3).

Other historical sources of focused recharge, including the NERT former on-site recharge trenches, former COH Rapid Infiltration Basins (RIBs), BMI Pond, TIMET Pond, and the AMPAC reinjection system were not active during the Phase III Model period and are not considered in the water balance.

Storm Water Retention Basins

There are two storm water retention basins at the NERT Site covering an area of 7.8×10^5 square feet (Figure 3). According to a surface infiltration modelling study performed in a semi-arid area in New Mexico, approximately 30 to 50 percent of storm water routed to retention basins in semi-arid areas is expected to ultimately recharge groundwater (Miller 2006). Assuming 50 percent of rainfall recharges groundwater and an average historical rainfall of 5 inches per year at the site (PRISM 2013), recharge from storm water retention basins is estimated to be 5.7×10^{-4} ft/day. This corresponds to an inflow to groundwater of 320 cfd.

The recharge rates and volumetric flows from surface water bodies are presented in Table 2 and are shown on Figure 3.

2.2.3 Lateral and Vertical Boundary Inflows and Outflows

Groundwater flows across the lateral and bottom model boundary are the primary sources of inflow to the model domain. These values are difficult to estimate with certainty since there is little site characterization available at the edges of the model domain. The boundary inflows have been subdivided into lateral inflows from the southern and northern boundaries, lateral inflows from the west below Las Vegas Wash, and vertical inflows from the deep UMCf. These inflows were estimated separately, as described below:

Southern Boundary Inflow

The alluvium is presumed to be either unsaturated or not present at the southern lateral boundary. Thus, groundwater inflow through the southern boundary was assumed to occur primarily through the UMCf. The southern boundary inflow was estimated using measured hydraulic conductivity values for the UMCf and the head gradient at the southern boundary of the Site. Within the model domain, the UMCf consists of distinct interbedded units composed of either coarse-grained sediments (UMCf-cg) or fine-grained sediments (UMCf-fg) (ENVIRON 2014a). The cross-section on Plate 6 of the RI/FS workplan for the NERT Site (ENVIRON 2014b) depicts the coarse-grained UMCf as present in two distinct intervals separated by UMCf-fg. The shallower coarse grained unit is termed the UMCf-cg1 and deeper unit UMCf-cg2. The coarse grained unit is also described in AMPAC's 2013 transient groundwater modeling report (Geosyntec 2013).

Based on the depiction of the saturated portion of the UMCf-fg and UMCf-cg in cross-section (Plate 6 of Geosyntec 2013), 25% of the southern boundary thickness was allocated to the UMCf-fg, and 75% was allocated to the UMCf-cg. The horizontal hydraulic conductivity of the UMCf used in the Phase III Model (0.72 ft/day) was applied to the UMCf-fg, and the hydraulic conductivity of the UMCf-cg (8 ft/day) obtained from the AMPAC model (Geosyntec 2013) was applied to the UMCf-cg. The horizontal head gradient measured upgradient of the NERT Site boundary during second quarter 2014 was about 0.0077 ft/ft (ENVIRON 2014a). The southern

model boundary is 45,000 feet in length and the thickness of UMCf is 250 feet in the model. Using these values, an inflow of 210,000 cfd was estimated for the southern boundary.

Northern Boundary Inflow

The northern model boundary has been extended into the alluvial fan north of Las Vegas Wash in the Phase III Model. The area north of the Wash consists mainly of outcrops of steep, older volcanic rock and hence minimal groundwater flow is expected through this boundary from the adjacent watershed. Most of the rainfall falling north of the Wash would be expected to either evaporate or flow as run-off into Las Vegas Wash. There is little information currently available to estimate this inflow. Thus, groundwater inflow across the northern boundary was treated as an unknown, and estimated as the amount of groundwater inflow required to make up the difference when matching overall groundwater inflows to outflows in the final water balance. This resulted in an estimate of 3,700 cfd groundwater inflow through the northern model boundary.

Eastern and Western Boundary Underflow

Since the model area is oriented along the general direction of groundwater flow, net inflows and/or outflows of groundwater along the eastern and western lateral boundaries of the conceptual water balance area are expected to be minimal. However, in the vicinity of Las Vegas Wash, we expect groundwater underflow where Las Vegas Wash enters the model area on the western boundary and where it exits the model area on the eastern boundary. Approximate values for these underflows were obtained with Darcy's Law by roughly estimating the width and depth of saturated alluvium, the hydraulic gradient, and hydraulic conductivity at the model area boundaries.

The calculation for the western boundary inflow assumes the saturated alluvium to be 4,200 feet wide. This value is the estimated extent of the western model boundary where a significant lateral flow component would be expected from the adjacent watershed. This area was assumed to be 50 feet thick, with a hydraulic conductivity value of 300 ft/day obtained from the calibrated Phase III groundwater model. The calculation for the eastern boundary outflow assumed the saturated alluvium to be 750 feet wide and 50 feet deep, with a hydraulic conductivity of 600 ft/day. A hydraulic gradient of 0.005 ft/ft was assumed at both ends of the Wash based on the stream bed profile for Las Vegas Wash obtained from the Federal Emergency Management Agency (FEMA) flood insurance study for Clark County (FEMA 2011). Based on these values, the groundwater inflow from the western boundary was estimated to be 320,000 cfd, and the outflow at the eastern boundary was estimated to be 110,000 cfd.

Vertical Boundary Inflow

The vertical boundary inflow consists of upwards flow from the deeper portion of the UMCf in the Deep WBZ. The average vertical head gradient between pairs of wells in the IWF and the AWF was approximately 0.09 ft/ft for second quarter 2014. The well pairs used for this purpose are M-71/M-163, M-74/M-165, PC-135A/PC-134A, and PC-136/PC-137. The vertical gradient for different well pairs measured in second quarter 2014 are shown in Appendix A2. It was assumed that vertical inflow is present in all areas of the model with the exception of the Bird Viewing Pond and areas around the upgradient boundary of the model domain where the upper coarse grained UMCf is present, as shown on Figure 4. Using the measured vertical gradient, the total surface area of the model, and a representative UMCf vertical conductivity of 2.5×10^{-3} ft/day, the total vertical inflow to the model domain was estimated as 141,000 cfd. The vertical

conductivity value is derived from the average vertical conductivity of the bottom model layer in the calibrated Phase III groundwater model.

3. PHASE III GROUNDWATER MODEL UPDATE

The results of the revised conceptual water balance (Section 2) were used to guide the development of the Phase III Model. The key model components that have been revised from the Phase II Model are described in the following sections.

3.1 Model Extent

The model extent was expanded to coincide better with natural geologic and hydrogeological flow boundaries. The model boundary has also been extended to the north to simulate groundwater inflow through the alluvium north of the Wash. The revised model boundary is shown in Figure 1 with arrows indicating the typical direction of natural groundwater flow overlaying the regional geology.

3.2 Grid Refinement

The Phase III Model incorporates changes to both the model grid and layer elevations. The extent of the model grid with refined grid spacing (50 ft cells) has been extended in the off-site area north of the NERT site to support future transport modelling. The grid has also been refined (50 ft cells) near Las Vegas Wash to better represent the stream-aquifer interaction.

The contact elevation between the alluvium and UMCf was refined to incorporate the updated interpretation of stratigraphic features in the NERT downgradient plume area prepared as part of Task 2 of the COP. The revised contact elevation surface is shown in Figure 7. Layer 1 of the Phase II Model extended from the ground surface to the base of the alluvium. In the Phase III Model, the base of Layer 1 has been revised to incorporate both the alluvium and the upper coarse-grained UMCf unit (UMCf-cg1). The extent of the UMCf-cg1 was obtained by interpolating between cross-sections developed for the NERT, AMPAC, OSSM and TIMET sites.[16] Layer 2 from the Phase II Model the UMCf has been split into three layers in the Phase III Model to better simulate contaminant transport in the upper portion of the UMCf. The revised model layer thicknesses are shown in Table 4.

3.3 Hydraulic Properties

The hydraulic conductivity distributions were revised in the Phase III Model to incorporate findings from the Task 3 Hydrogeologic Evaluation performed as part of the COPThe spatial distributions of horizontal hydraulic conductivity values in Layers 1 through 7 are shown on Figures 6a-6c.

3.3.1 Horizontal Hydraulic Conductivity

The following changes have been made to the hydraulic conductivity zones in Layer 1 (Figure 6b):

- The hydraulic conductivity of the paleochannels in the Phase III Model was revised to be consistent with the conceptual water balance and available aquifer testing estimates shown on Figure 10.
- The hydraulic conductivity within the paleochannels near the AWF was increased from 200 ft/day to 300 ft/day based on the average pumping test results from ART-2 (280 ft/day), PC-98 (334 ft/day; 290 ft/day), ART-7 (260 ft/day), and PC-100 (334 ft/day).

[16] Cross section references are listed on Figure 8.

- The hydraulic conductivity within the paleochannel near the SWF was further increased to 485 ft/day based on the nearby pumping test results.
- The horizontal hydraulic conductivity value for the remainder of the alluvium was increased from 35 feet/day to 40 feet per day to improve the model calibration.
- The conductivity values in the upgradient area of Layer 1, which now includes the UMCf-cg1, were modified to include conductivity values typical of the coarse grained unit. A range values between 6 ft/day and 10 ft/day was assigned, depending on the relative thickness of UMCf-cg1. The conductivity values were adjusted during calibration.

The horizontal hydraulic conductivity value applied to the deeper layers representing the UMCf-fg remains unchanged from the Phase II Model, with the exception of a small increase in Layer 2 conductivity from 0.7 to 2 ft/day to improve calibration and to represent a transitional UMCf below the alluvium (Figure 6c). Zones of higher conductivity in Layer 2 were defined around the shallow AMPAC pumping wells (40 ft/day) and the OSSM pumping wells (6 ft/day) in order to allow the model to accurately simulate the measured extraction rates. The spatial distribution of UMCf-cg, in particular the extent of the deeper UMCf-cg2 and the distribution of conductivity around the OSSM and AMPAC wells, will be further modified in the RI phase of the model development.

3.3.2 Vertical Hydraulic Conductivity

The vertical hydraulic conductivity values have been revised in the Phase III Model to be more consistent with measured values. Based on the aquifer testing data reviewed as part of the COP Task 3 Hydrogeologic Evaluation, vertical conductivity values in the alluvium were identified ranging from 0.02 ft/day to 4.2 ft/day. The vertical conductivity of alluvium in the model was reduced from 8.3 ft/day to 1 ft/day to be more characteristic of this range. For the UMCf, the range of reported vertical conductivity values was identified ranging from 4.3×10^{-7} ft/day to 0.2 ft/day. The vertical conductivity value of UMCf was revised throughout most of the model domain from 0.004 ft/day to 0.003125 ft/day. The vertical conductivity of the UMCf underneath the shallow AMPAC wells was increased to 0.0325 ft/day in order to allow the model to accurately simulate the measured extraction rates at these wells. As stated above, the distribution of the conductivity in the vicinity of the AMPAC wells will be further refined in the RI phase of model development.

3.3.3 Hydraulic Flow Barriers

The slurry wall located on the NERT Site, immediately north of the IWF, is simulated as a hydraulic flow barrier (HFB). The reported range of conductivities used during construction was 4.7×10^{-8} centimeters per second (cm/sec) to 8.0×10^{-7} cm/sec (Vector 2001). This range is similar to the average hydraulic conductivity measured by permeability testing of the barrier wall at four locations of 8.8×10^{-7} cm/sec, as reported in the Capture Zone Evaluation Report (Northgate 2010). For modeling purposes, the value of 8.8×10^{-7} cm/sec was used to represent the barrier wall's hydraulic conductivity. According to the conceptual site model developed by ENSR International Corporation (ENSR), the slurry wall is about 1,600 feet long, 3 feet thick, and 60 feet deep, and was constructed to tie into approximately 30 feet of UMCf (ENSR 2005). The layer thicknesses were adjusted in the Phase III Model to more accurately represent the slurry wall configuration.

The TIMET barrier/slurry wall was completed in early 2014. This barrier wall is represented in the Phase III Model as a hydraulic flow barrier, the same approach used for the NERT Site barrier. Based on the construction report (GEI 2014a), the slurry wall was represented in the model

using a hydraulic conductivity of $1x10^{-6}$ cm/sec, a total length of 2,410 feet, and a depth of 60 feet. The thickness of the wall was assumed to be 3 feet.

3.4 Boundary Conditions

The model boundary conditions include lateral flows of groundwater through the model boundary, vertical inflow from the base of the model, the stream boundary representing Las Vegas Wash, evapotranspiration, pumping/injection from wells, and areal and focused recharge. Boundary conditions modified for the Phase III Model are described in the following sections.

3.4.1 Lateral Boundary Inflows and Outflows

The southern boundary inflow in the Phase III Model was simulated using a specified flow boundary condition. The fluxes of the boundary cells was adjusted until the total inflow through the boundary approximately matched the value derived for the conceptual water balance. The overall simulated inflow through the upgradient boundary has increased from 90,000 cfd in the Phase II Model to 210,000 cfd, mainly due to the larger extent of the southern boundary (Table 5).

As described in Section 2.2.3, groundwater inflows and outflows are expected in the aquifer underlying Las Vegas Wash. Specified flow boundary cells were assigned in Layer 1 where the model boundary crosses Las Vegas Wash to simulate groundwater inflow through the western boundary (Figure 6). Similarly, specified flow cells were assigned along the eastern boundary at the downstream end of the Las Vegas Wash. The total inflow and outflow simulated from the new specified flow boundaries in the Phase III Model are approximately 300,00 cfd and 130,000 cfd, respectively (Table 5). These boundary flows may be adjusted further as part of the RI.

The northern model boundary has been extended into the alluvial fan north of Las Vegas Wash in the Phase III Model. The procedure for estimating the groundwater inflow from this boundary (7,400 cfd) was described in Section 2.2.3. The northern inflow was applied to the model by distributing the inflow to a series of wells located in each of the cells along the northern boundary in Layers 1 and 2.

3.4.2 Vertical Inflow

The conceptual water balance estimated a total upwards vertical flow into the model domain of 141,000 cfd. This vertical inflow was presumed to be present in all areas of the model with the exception of the Bird Viewing Pond and areas near the upgradient boundary of the model domain where the upper coarse grained UMCf is present. This spatial distribution of vertical flow was implemented in the Phase III Model through the use of GHB cells placed in the northern half of the model domain in Layer 7 (Figure 4). These cells were assigned head values equal to interpolated head values available for UMCf at head gradient targets (Appendix A2). The resulting simulated total upwards flow was 160,000 cfd. Future work as part of the RI phase of model development may include refining the vertical inflow to match head gradient targets derived from well clusters throughout the model extent.

3.4.3 Stream Boundary

The stream boundary was updated in the Phase III Model in order to better simulate stream/aquifer interactions at Las Vegas Wash. As shown in Figure 9, the overall extent of the stream is the same as in the Phase II Model, and includes flows from Duck Creek, a small tributary stream carrying surface water discharges near Pabco Road, and the C-1 Channel. The surface water inflows entering each stream reach were estimated from various measured sources

of discharge to Las Vegas Wash, including streamflow data from USGS gauging stations, COH treated wastewater outflows and effluent discharge rates from the Site, AMPAC, and TIMET outfalls (see Section 2.1.2 and Table 1a). These values were assigned as inputs to the Phase III Model for calibrating the stream package. The stream was divided into segments so that the model can be used to tabulate the simulated stream flow at Pabco Road and the eastern model boundary. The segments are not meant to represent the actual flows within Las Vegas Wash; they are only to allow the tabulation of total flows at stream gauges. The Phase III Model simulates stream flow of approximately 295 cfs near the Pabco Road gauging station, which (after correction for evaporation from the stream) generally matches the average recorded flow at this gauge.

Inputs to the stream package include the stream stage, the streambed elevation, and the hydraulic conductivity of the streambed. The streambed conductance is a function of area of the stream in each grid cell, the thickness of the streambed and the hydraulic conductivity of the streambed. The streambed conductance is shown in Figure 9. The areal extent of the stream in each stream grid cell was allocated based on 2014 aerial imagery obtained from the Southern Nevada Water Authority. The streambed thickness was set uniformly to 1 ft, and the conductivity was manually adjusted until the groundwater inflow to each stream segment matched approximately to the net groundwater inflow as described in Table 1a. The stream stage and streambed elevation profile are shown in Figure 10.

3.4.4 Evapotranspiration From Groundwater

The Phase II Model incorporated evapotranspiration by phreatophytes located along the Las Vegas Wash. This region was refined in the Phase III Model by digitizing areas of vegetation visible in satellite imagery from March 2014. The resulting zones of evapotranspiration are shown on Figure 9. The reference evapotranspiration for the Las Vegas Valley has been reported as ranging from 3.9 to 5.2 ft/year for pasture grass.[17] However, evapotranspiration from the water table ceases at the extinction depth, the depth to which the roots of plants extend below the land surface. The roots for salt cedar may penetrate soil from 5 feet to 30 feet below ground surface depending on the density of growth.[18] An extinction depth of 5 feet and an evapotranspiration rate of 4 feet per year are simulated in Phase III Model, as was previously done in the Phase II model. The simulated evapotranspiration rate from the calibrated model is approximately 8,800 cfd (Table 5). This does not include evaporation from surface water bodies, such as Las Vegas Wash and the Bird Viewing Pond, which are accounted for outside of the groundwater model.

3.4.5 Groundwater Pumping and Injection

The model has been updated to simulate pumping with the average rates from second quarter 2014. These pumping rates are presented in Table 3.

3.4.6 Areal and Focused Recharge

Areal and focused recharge in the Phase III Model has been updated as described in the conceptual water balance in Sections 2.2.1 and 2.2.2.

[17] http://water.nv.gov/mapping/et/et_general.cfm, downloaded on 04/9/2015
[18] http://www.columbia.edu/itc/cerc/danoff-burg/invasion_bio/inv_spp_summ/Tamarix_ramosissima.html, downloaded 04/9/2015

4. MODEL CALIBRATION

The Phase III model was calibrated by varying model parameters so that the simulated model results are consistent with observation data, the conceptual water balance, and the overall conceptual model of groundwater flow in the model area. This section describes the model calibration process and evaluates the quality of model calibration.

4.1 Model Calibration Targets

During model calibration, model parameters were adjusted so that the simulated water levels were as close as possible to actual water levels measured in second quarter 2014. The measured water levels are referred to as model calibration targets.

The water level data used as calibration targets were compiled from several sources including:

- The 2014 Annual Remedial Performance Report for Chromium and Perchlorate for the NERT Site (ENVIRON 2014c). This report includes data collected as part of the NERT groundwater monitoring program annual sampling event conducted in May 2014, in addition to second quarter 2014 monitoring data received from the other BMI complex parties.
- The Nevada Division of Water Resources (NDWR) online Water Level Database and Well Log Database;
- Quarterly and semi-annual monitoring reports for the BMI complex parties (de maximis 2014a, de maximis 2014b, BRC 2014, AMPAC 2014, GEI 2014b);
- Monitoring data received from the Southern Nevada Water Authority (SNWA); and
- Information collected in 2015 as part of the RI for the NERT Site.

After data compilation was complete, data were evaluated based on the quality of the data source, the date of measurement, and the location of the measurement within the model grid. Each target value was grouped based on these characteristics so that only data of acceptable quality measured during the second quarter of 2014 were used in model calibration. There are 16 targets in the model with water level measurements obtained prior to second quarter 2012. The location of model targets is shown in Figure 11.

The surface water flow measured at the Pabco Road and Three Kids gauging stations were used qualitatively as a calibration targets, so that the simulated stream-aquifer interaction was consistent with the conceptual water balance. Similarly, the boundary flows were also used as qualitative calibration targets.

4.2 Calibration Approach

The Phase III Model was calibrated using a combination of automatic calibration and a trial-and-error approach. Initially, the Phase III Model incorporated parameters assigned from the Phase II Model with updates as discussed above in Section 3.0. As a first step in the calibration process, boundary conditions were adjusted to achieve a reasonable fit between the model and the conceptual water balance. Following initial adjustment of the water balance, model parameters such as vertical and horizontal hydraulic conductivity were modified to provide a better match between simulated heads and observed heads.

The hydraulic conductivity values assigned in Layer 1 in the southern part of the model were adjusted during calibration guided by changes in the degree of saturation of the alluvium and

UMCf-cg1. At the southernmost model boundary, the alluvium is unsaturated and groundwater flows mainly in UMCf-cg1. The model calibration started with a conductivity value of 6 feet/day in this area, derived from AMPAC's groundwater model (Geosyntec 2010). This value was increased to 8 feet per day moving to the north as the alluvium becomes partially saturated. On the southeastern side, the conductivity was increased to 10 feet per day where the alluvium is expected to be more saturated since groundwater flows in both the alluvium and UMCf-cg1. Near the NERT Site, the UMCf-cg unit pinches out (Figure 8) and the alluvium is mainly unsaturated. As a result, the upper-most saturated unit is the UMCf-fg, hence a lower conductivity of 2 feet per day was assigned in this region.

In the portions of Layer 1 representing paleochannels, hydraulic conductivity was assigned to zones during calibration guided by the measurements from aquifer testing (Figure 5). The zones were defined with increasing conductivity from the south to the north. For the paleochannel near the SWF, there was significant variability in aquifer test results so the assigned value of 485 ft/d was determined through calibration. A horizontal-vertical anisotropy ratio of 10 was used in the paleochannels. The model calibration is not sensitive to this value, so a reasonable anisotropy ratio representative of alluvium was selected.

Convergence criteria of 0.001 foot on head and 100 ft^3/d on flow were specified for the model simulations. The volumetric mass balance error (difference between total groundwater inflow and outflow simulated by the model) was monitored during model calibration as a check on the model solutions and to identify errors in the model design. The overall mass balance error of the final calibrated model was negligible.

4.3 Phase III Model Evaluation

The calibration of the Phase III Model is generally good based on a comparison of model fit to the water budget, calibration target heads, and regional water level contours. Table 5 presents a comparison of the major flow components of the conceptual water balance to the simulated water balance of the Phase III Model. The simulated flows are generally consistent with the estimated conceptual water balance flows.

Table 6 provides a comparative summary of calibration statistics for the updated Phase III Models. A negative residual mean value indicates that the simulated heads are higher than the observed heads. The calibration statistics for the Phase III Model have also been presented separately for higher quality targets versus more uncertain target data, as shown in Appendix A1. Figure 12 shows a plot characterizing the match between modeled and observed heads at wells used as calibration targets. The plot illustrates that there is generally good agreement between modeled and observed heads, with points generally falling close to the 1:1 correlation line. The "goodness-of-fit" R^2 value is 0.98, demonstrating an acceptable fit to the observed heads. Figure 13 shows a map of target residuals.

As shown in Figure 14, the simulated heads in the Shallow WBZ are generally consistent with the contoured groundwater elevations for second quarter 2014 presented in Plate 2 in the 2013-2014 Annual Performance Report (ENVIRON 2014b).

Based on this evaluation of the Phase III Model, the current calibration is sufficient for the intended purpose of evaluating GWETS performance. Although they are outside of the main area of interest for evaluating GWETS performance, there are several regions within the model domain where high residual values at calibration targets suggest a need for additional model refinement during future modeling work. For instance, in Layer 1, heads west of the NERT Site

boundary and extending downgradient towards the AWF are about 5 to 15 feet higher than the observed water levels. Further refinement of the model layer thickness, layer properties, and/or boundary parameters near these areas may be performed during the RI model development. In addition, the simulated heads appear to be biased low near the upgradient model boundary, particularly in Layer 5. During the RI phase of model development, the deeper coarse-grained UMCf will be added to the model to better represent flow in this layer.

4.4 Sensitivity Analysis

The sensitivity of the model calibration to changes in the values of the hydraulic conductivities was evaluated for the alluvium (outside and within paleochannels), UMCf-fg, and UMCf-cg1. This was done by increasing and decreasing each model input parameters by a factor of 0.75 and 1.5, running the model, recording the outputs of interest, and repeating. The results of the sensitivity analysis are shown in Table 7.

In most cases, the sensitivity analysis results suggest that a lower root mean square (RMS) error could be achieved by increasing horizontal hydraulic conductivities from the values used in the calibrated model. However, this cannot be done without exceeding the range of conductivities observed in the aquifer tests or by creating a discrepancy between the model and the conceptual water balance. The model calibration is not sensitive to vertical conductivities in the alluvium. In addition to the parameters shown in Table 7, the model is also sensitive to parameters controlling the western and southern boundary inflows, the eastern boundary outflow, and upward vertical inflow from the deep UMCf. During the RI phase of model development, a more complete sensitivity and uncertainty analysis will be performed.

5. CONCLUSIONS

The Phase III Model has been calibrated to simulate groundwater conditions at the Site and can be used for evaluation and optimization of the performance of the GWETS. Major refinements to the model described in this report include 1) expansion of the model boundaries to correspond with natural geologic boundaries, 2) further refinement to the model representation of groundwater interaction with Las Vegas Wash, 3) incorporation of hydrogeological data and interpretation developed as part of the COP, and 4) updates to the remediation systems of NERT, OSSM, TIMET, and AMPAC to reflect current operations.

In the Phase 4 model development (to be completed as part of the RI), the model will be further refined to incorporate additional information collected during the RI and any updates to the conceptual site model. As part of this effort, areas of focus will include refining the model representation of the shallow and deeper coarse-grained UMCf units, incorporating new information about stream-aquifer interaction, refining aquifer characteristics with the AMPAC plume, and further improving model calibration. A more complete sensitivity and uncertainty analysis will be performed, and the model will be comprehensively documented in a model report.

6. REFERENCES

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TABLES

TABLE 1a: ESTIMATE OF GROUNDWATER DISCHARGE TO LAS VEGAS WASH

Nevada Environmental Response Trust Site

Henderson, Nevada

Calculation A: Estimation of Inferred Groundwater Discharges to Reach A		
	Flow (cfs)	**Source**
Known Surface Inflows:		
Las Vegas Wasteway Gauge	256.4	Average flow in 2014 at USGS stream gauge
Duck Creek	7.2	Average flow in 2014 at USGS stream gauge
COH Wastewater Outfall	19.7	Average flow in 2014 based on COH data
NERT Outfall	2.0	Data collected by NERT
AMPAC Outfall	1.4	Equal to total pumping[1]
TIMET Outfall	6.1	Data collected by TIMET[2]
Total Known Inflows	**292.9**	
Known Surface Ouflows:		
Evaporation from Wash	2.5	Estimated based on the surface area of Wash along Reach A and recorded evaporation rates
Surface flow at Pabco Road Gauge	294.4	Average flow 2014 at USGS stream gauge
Total Known Outflows	**296.9**	
Inferred Groundwater Discharge to Reach A	***4.0***	Total known outflows minus total known inflows

Calculation B: Estimation of Inferred Groundwater Discharges to Reach B		
	Flow (cfs)	**Source**
Known Surface Inflows:		
Surface flow at Pabco Road Gauge	294.4	Average flow 2014 at USGS stream gauge
Total Known Inflows	**294.4**	
Known Surface Ouflows:		
Surface flow at Three Kids Gauge	295.8	Average flow 2014 at USGS stream gauge
Evaporation from Wash	1.7	Estimated based on the surface area of Wash along Reach B and recorded evaporation rates
Total Known Outflows	**297.5**	
Inferred Groundwater Discharge to Reach B	***3.1***	Total known outflows minus total known inflows

Calculation C: Estimation of Groundwater Discharge to Las Vegas Wash in the Model Domain				
	Reach A	***Reach B***	***Total***	***Units***
Inferred Groundwater Discharge to Reach	4.0	3.1	7.1	cfs
Proportion of Reach Within Model Domain[3]	71%	49%	--	
Groundwater Discharge to Las Vegas Wash Within Conceptual Water Balance Domain	2.8	1.5	4.4	cfs
	240,000	130,000	**370,000**	cfd

Notes:

cfs = cubic feet per second cfd = cubic feet per day

[1] Per email communication with Gary Carter of AMPAC, dated 9/10/2013.

[2] Per data received from NDEP Bureau of Water Pollution Control in 2015.

[3] Estimated using GIS

TABLE 1b: REVISED CONCEPTUAL GROUNDWATER BALANCE SUMMARY

Nevada Environmental Response Trust Site

Henderson, Nevada

	Parameters	Flow (cfd)	Source Data
Groundwater Inflow	Southern Boundary inflow	210,000	Based on Darcy's Law and horizontal head gradient
	Northern Boundary infow	3,700	Adjusted to balance inflows with outflows
	Vertical inflow from UMCf	141,000	Based on Darcy's Law and vertical head gradient
	Western boundary inflow beneath the Wash	320,000	Based on Darcy's Law and horizontal head gradient
	Areal Recharge		
	Infiltration from Bird Viewing Preserve	40,000	Estimated as inflow rate minus evaporation rate
	Infiltration from Industrial Area	31,000	Based on estimate of leakage from water mains
	Infiltration from Residential Area	36,000	Based on estimate of leakage from water mains
	Golf Course Recharge	10,000	Based on water usage and percent estimate to prevent salt buildup in the root zone
	Rainfall Recharge	0	Negligible recharge expected in undeveloped areas[1,2]
	Focused Recharge		
	NERT Stormwater Retention Basins	320	Based on rainfall and recharge percentage for retention basins[3]
	TIMET Injection	4,900	Equal to total pumping for 2014Q2
	OSSM Injection	28,000	Equal to total pumping for 2014Q2
Total Inflow (cfd)		**820,000**	
Groundwater Outflow	Groundwater Extraction		
	NERT (IWF)	14,000	Average 2014Q2
	NERT (AWF)	54,000	Average 2014Q2
	NERT (SWF)	94,000	Average 2014Q2
	OSSM	28,000	Average 2014Q2
	AMPAC	130,000	Average 2014Q2
	TIMET	4,900	Average 2014Q2
	Groundwater discharge to Wash	370,000	Net discharge estimated in Table 1a
	Eastern boundary outflow beneath the Wash	110,000	Based on Darcy's Law and horizontal head gradient
	Evapotranspiration	17,000	Estimated based on area of phreatophytic vegetation and ET rate
Total Outflow (cfd)		**820,000**	

TABLE 1b: REVISED CONCEPTUAL GROUNDWATER BALANCE SUMMARY

Nevada Environmental Response Trust Site

Henderson, Nevada

Notes:

cfd = cubic feet per day

UMCf = Upper Muddy Creek Formation

IWF = Interceptor Well Field

AWF = Athens Road Well Field

SWF = Seep Well Field

AMPAC = American Pacific Corporation

COH = City of Henderson

NERT = Nevada Environmental Response Trust

OSSM = Olin Chlor-Alkali/Stauffer/Syngenta/Montrose

[1]Sanford, W. E. and Selnick, D. L., 2013. Estimation of Evapotranspiration Across the Conterminous Unites States using a Regression with Climate and Land-Cover Data, Journal of the American Water Resources Association, Vol. 49, No. 1.

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[3]Miller, M. 2006. "Rainwater Harvesting for Enhanced Groundwater Recharge Through Capture of Increased Runoff from Site Development." Conference Paper 100, OpenSIUC, Southern Illinois University Carbondale.

TABLE 2: MODEL RECHARGE DISTRIBUTION

Nevada Environmental Response Trust

Henderson, Nevada

Region	Recharge Rate (ft/d)	Recharge Volume (cfd)	Source
Residential areas	9.2E-05	3.6E+04	Based on estimate of leakage from water mains
Industrial areas	7.3E-04	3.1E+04	Based on estimate of leakage from water mains
Golf Course	1.8E-03	1.0E+04	Based on water usage and percent estimate to prevent salt buildup in the root zone
Undeveloped areas	0	0	Based on Sanford and Selnick (2013) and Maxey and Eakin (1949)
COH Birding Preserve	1.5E-02	4.0E+04	Based on data provided by City of Henderson
NERT ponds	0	--	Ponds are double-lined; recharge is insigificant
OSSM Recharge Trenches	2.1E-01	2.8E+04	Equal to total pumping for 2014Q2
TIMET Recharge Trenches	5.3E-02	4.9E+03	Equal to total pumping for 2014Q2
Stormwater retention basins	5.7E-04	3.2E+02	Based on recharge fraction in Miller (2006)

Notes:

ft/d = feet per day

cfd = cubic feet per day

COH = City of Henderson

NERT = Nevada Environmental Response Trust

OSSM = Olin Chlor-Alkali/Stauffer/Sygenta/Montrose

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TABLE 3: GROUNDWATER EXTRACTION RATES - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Well Name	Owner	Pumping Rate (gpm)	Pumping Rate (cfd)
ART-1	NERT	23.3	4,484
ART-2	NERT	62.1	11,957
ART-3	NERT	46.6	8,964
ART-4	NERT	10.6	2,035
ART-6	NERT	0.0	0
ART-7	NERT	31.1	5,978
ART-8	NERT	62.1	11,959
ART-9	NERT	46.6	8,968
I-AR	NERT	1.17	226
I-AA	NERT	0.30	58
I-AB	NERT	0.13	25
I-AC	NERT	0.02	4
I-AD	NERT	0.13	25
I-B	NERT	1.68	323
I-C	NERT	6.36	1,224
I-D	NERT	2.61	502
I-E	NERT	2.39	459
I-F	NERT	4.63	892
I-G	NERT	0.65	125
I-H	NERT	0.82	158
I-I	NERT	4.76	915
I-J	NERT	6.10	1,175
I-K	NERT	4.18	806
I-L	NERT	2.03	391
I-M	NERT	2.63	506
I-N	NERT	2.43	468
I-O	NERT	2.21	425
I-P	NERT	3.64	700
I-Q	NERT	0.90	173
I-R	NERT	3.62	696
I-S	NERT	3.96	763
I-T	NERT	0.35	67
I-U	NERT	0.94	181
I-V	NERT	5.82	1,121
I-W	NERT	0.38	73
I-X	NERT	2.19	421
I-Y	NERT	0.57	109
I-Z	NERT	6.59	1,268
PC-115R	NERT	84.4	16,246
PC-116R	NERT	122.4	23,566
PC-117	NERT	92.0	17,703
PC-118	NERT	61.9	11,918
PC-119	NERT	61.3	11,804
PC-120	NERT	0.008	1.5
PC-121	NERT	0.008	1.5
PC-133	NERT	4.2	810

TABLE 3: GROUNDWATER EXTRACTION RATES - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Well Name	Owner	Pumping Rate (gpm)	Pumping Rate (cfd)
PC-150	NERT	0.00	0
PC-99R2/R3	NERT	62.4	12,007
A	OSSM	0	0
B	OSSM	0	0
C	OSSM	0	0
D2	OSSM	7.31	1,408
E3	OSSM	23.84	4,588
F	OSSM	11.69	2,250
G	OSSM	10.49	2,020
H2	OSSM	11.48	2,211
I	OSSM	7.06	1,360
J	OSSM	7.91	1,522
K2	OSSM	9.70	1,867
L	OSSM	10.67	2,055
M	OSSM	0	0
M2	OSSM	6.63	1,277
N	OSSM	0.91	175
O	OSSM	13.03	2,508
P	OSSM	12.77	2,459
Q	OSSM	9.17	1,766
R	OSSM	4.34	836
AMEW-1	AMPAC	176.7	34,008
AMEW-2	AMPAC	55.7	10,713
AMEW-3	AMPAC	51.6	9,930
AMEW-4	AMPAC	41.5	7,996
AMEW-5	AMPAC	35.6	6,844
APEW-1	AMPAC	0.0	0
APEW-2	AMPAC	49.6	9,550
APEW-3	AMPAC	6.9	1,326
AREW-1	AMPAC	30.3	5,824
AREW-2	AMPAC	53.2	10,246
AREW-3	AMPAC	24.0	4,611
AREW-4	AMPAC	20.6	3,973
AREW-5	AMPAC	104.3	20,085
AREW-6	AMPAC	24.1	4,634
EWQal-01	TIMET	0.0	0
EWQal-02	TIMET	0.0	0
EWQal-03	TIMET	1.6	317
EWQal-04	TIMET	0.5	101
EWQal-05	TIMET	4.0	765
EWQal-06	TIMET	1.5	286
EWQal-07	TIMET	1.0	188
EWQal-08	TIMET	2.5	487
EWQal-09	TIMET	3.4	648
EWQal-10	TIMET	4.3	833
EWQal-11	TIMET	2.0	386

TABLE 3: GROUNDWATER EXTRACTION RATES - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Well Name	Owner	Pumping Rate (gpm)	Pumping Rate (cfd)
EWQal-12	TIMET	0.9	178
EWQal-13	TIMET	1.1	214
EWQal-14	TIMET	0.5	93
EWQal-15	TIMET	1.2	239
EWQal-16	TIMET	0.9	180
EWQal-17	TIMET	0.0	0
EWQal-18	TIMET	0.0	0
EWQal-19	TIMET	0.0	0

Notes:

cfd = cubic feet per day

gpm = gallons per minute

AMPAC = American Pacific Corporation

OSSM = Olin Chlor-Alkali/Stauffer/Sygenta/Montrose

NERT = Nevada Environmental Response Trust

TABLE 4: PHASE III GROUNDWATER MODEL LAYERS

Nevada Environmental Response Trust

Henderson, Nevada

Model Layer	Lithology	Layer Thickness (ft)
1	Alluvium/UMCf-cg1	4 - 280
2	UMCf-fg	10
3	UMCf-fg	10
4	UMCf-fg	10
5	UMCf-fg	50
6	UMCf-fg/UMCf-cg2	80
7	UMCf-fg/UMCf-cg2	90

Notes:

ft = feet

UMCf-fg = Fine grained Upper Muddy Creek Formation

UMCf-cg = Coarse grained Upper Muddy Creek Formation

TABLE 5: MODELED GROUNDWATER BALANCE SUMMARY

Nevada Environmental Response Trust Site

Henderson, Nevada

	Parameters	Conceptual Water Balance Flow (cfd)	Phase III Model Flow (cfd)
Groundwater Inflow (cfd)	Southern Boundary inflow	210,000	210,000
	Northern Boundary inflow	3,700	7,400
	Vertical inflow from UMCf	141,000	160,000
	Western boundary inflow beneath the Wash	320,000	300,000
	Combined Recharge	150,000	150,000
	Infiltration from Bird Viewing Preserve	40,000	40,000
	Infiltration from Industrial Area	31,000	31,000
	Infiltration from Residential Area	36,000	36,000
	Infiltration from Golf Course	10,000	10,000
	Infiltration from Undeveloped Area	0	0
	Infiltration from Retention Basins	320	320
	TIMET Injection	4,900	4,900
	OSSM Injection	28,000	28,000
Total Inflow (cfd)		**820,000**	**820,000**
Groundwater Outflow (cfd)	Combined Pumping	330,000	330,000
	Pumping NERT (IWF)	14,000	14,000
	Pumping NERT (AWF)	54,000	54,000
	Pumping NERT (SWF)	94,000	94,000
	Pumping OSSM	28,000	28,000
	Pumping AMPAC	130,000	130,000
	Pumping TIMET	4,900	4,900
	Net Outflow to the Wash	370,000	360,000
	Eastern Boundary Outflow beneath the Wash	110,000	130,000
	Evapotranspiration	17,000	8,800
Total Outflow (cfd)		**820,000**	**820,000**

Notes:

cfd = cubic feet per day

UMCf = Upper Muddy Creek Formation

IWF = Interceptor Well Field

AWF = Athens Road Well Field

SWF = Seep Well Field

AMPAC = American Pacific Corporation

OSSM = Olin Chlor-Alkali/Stauffer/Sygenta/Montrose

Values rounded to two significant figures. The totals were calculated prior to rounding.

TABLE 6: CALIBRATION STATISTICS

Nevada Environmental Response Trust Site

Henderson, Nevada

Parameters	Phase III Model (All Targets)	Phase III Model (Selected Targets*)
Residual Mean (RM) (ft)	-1.25	-0.35
Root Mean Square (RMS) Error (ft)	11.5	10
Standard Deviation (ft)	11.4	10
Range of Observations (ft)	314	307
Residual Sum of Squares (ft^2)	5.1×10^4	2.7×10^4
Number of Observations	390	292

Notes:

* Selected Targets are the wells with accurate location, screen elevations and water levels available for second quarter 2014.

ft = feet

TABLE 7: SENSITIVITY ANALYSIS

Nevada Environmental Response Trust Site

Henderson, Nevada

Input Parameter	Value Used in Calibrated Model (ft/d)	Multiplier	Sum of Squared Residuals (ft^2)	RMS Error (ft)	Residual Mean (ft)
Horizontal Hydraulic Conductivity of Alluvium Outside of Paleochannels	40	0.75	5.56×10^4	11.94	-2.56
		1	**5.12×10^4**	**11.46**	**-1.25**
		1.5	4.82×10^4	11.11	0.35
Vertical Hydraulic Conductivity of Alluvium Outside of Paleochannels	1.25	0.75	5.12×10^4	11.46	-1.24
		1	**5.12×10^4**	**11.46**	**-1.25**
		1.5	5.12×10^4	11.46	-1.24
Horizontal Hydraulic Conductivity Within Paleochannels	100 - 600	0.75	5.73×10^4	12.13	-2.66
		1	**5.12×10^4**	**11.46**	**-1.25**
		1.5	4.71×10^4	10.99	0.53
Horizontal Hydraulic Conductivity of UMCf-fg	0.72, 2	0.75	5.05×10^4	11.38	-2.69
		1	**5.12×10^4**	**11.46**	**-1.25**
		1.5	6.09×10^4	12.50	1.45
Vertical Hydraulic Conductivity of UMCf-fg	0.003125, 0.0325	0.75	5.11×10^4	11.44	-1.85
		1	**5.12×10^4**	**11.46**	**-1.25**
		1.5	5.23×10^4	11.58	-0.81
Surface Recharge Rates	Variable	0.75	5.13×10^4	11.47	0.76
		1	**5.12×10^4**	**11.46**	**-1.25**
		1.5	6.61X 104	13.02	-5.67

Notes:

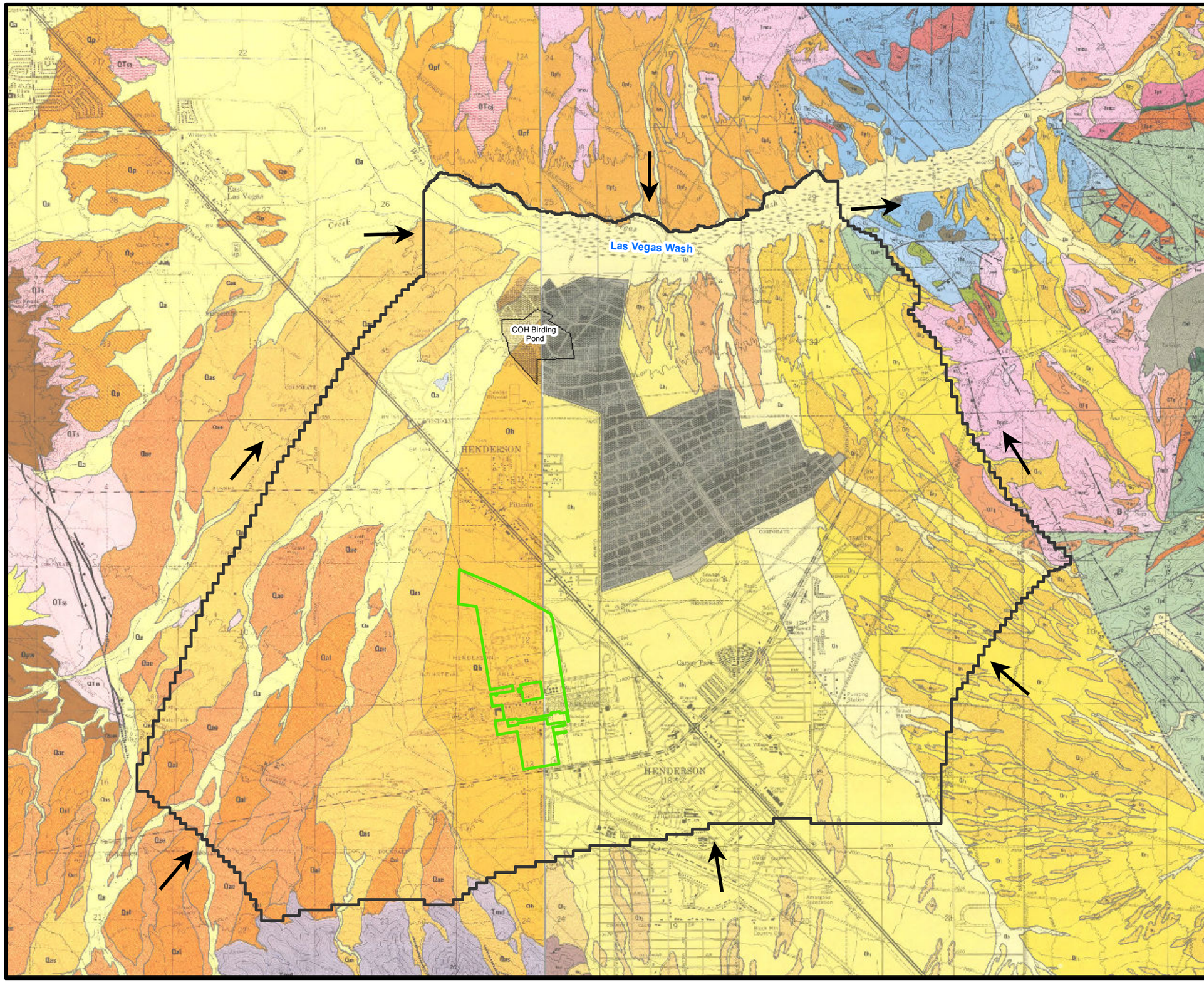
Calibration statistics of calibrated model are highlighted

ft/d = feet per day

ft^2 = square feet

RMS = root mean square

FIGURES



EXPLANATION

Phase III Model Extent

NERT Property Boundary

Direction of Groundwater Flow

Geological Map Reference:

E.C.Bingler, 1977, Geologic Map of the Las Vegas SE Quadrangle, Nevada: Nevada Bureau of Mines and Geology Map 3Ag, 1:24,000 scale

Bell, J.W., 1980, Geologic Map of the Henderson Quadrangle, Nevada: Nevada Bureau of Mines and Geology Map 67, 1:24,000 scale

N
W E
S

0 0.5 1 Miles

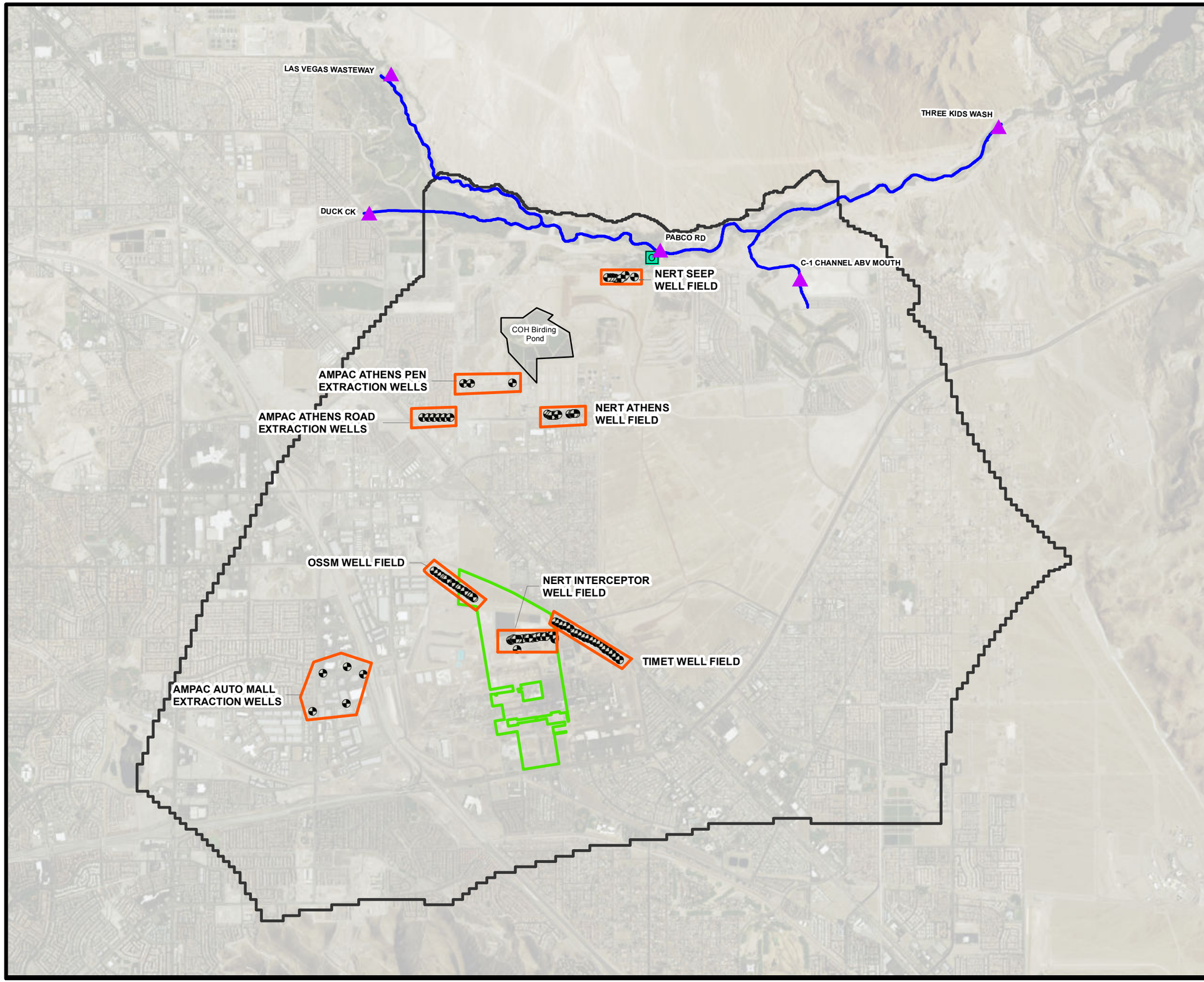
RAMBOLL ENVIRON

PHASE III MODEL EXTENT

Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure 1
Drafter: AS	Approved:	Revised:	

Path: H:\LePetomane\NERT\Modeling\Optimization Report\Phase 3 Modeling Report\Figures\Fig 1 - Model Extent_v1.mxd



EXPLANATION

- Pumping Wells
- USGS Stream Gauge Station
- NERT/AMPAC/TIMET/COH Outfall Location
- Surface Water Channel
- Phase III Model Extent
- NERT Property Boundary

N
W E
S

0 0.5 1 Miles

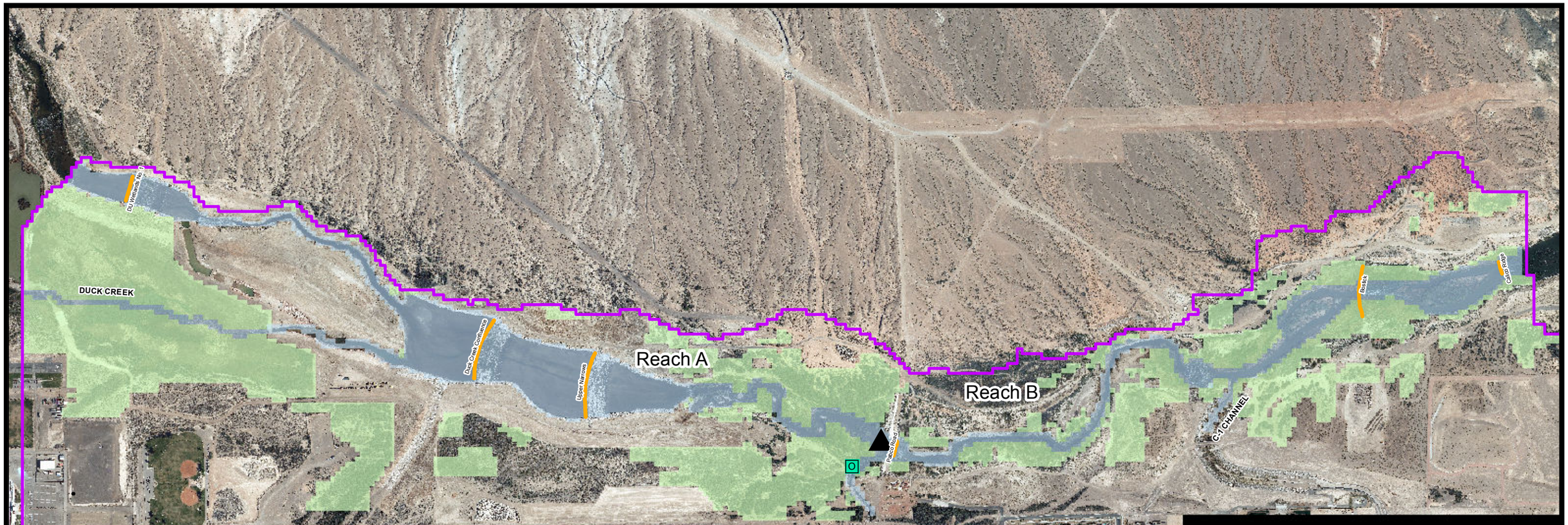
RAMBOLL ENVIRON

SITE FEATURES

Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/30/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	2a

Path: H:\LePetomane\NERT\Modeling\Optimization Report\Phase 3 Modeling Report\Figures\Fig 2 - Model Boundary Conditions.mxd



EXPLANATION

- NERT/AMPAC/TIMET/COH Outfall Location
- Pabco Road Stream Gauge Station
- SNWA Weirs
- Phase III Model Extent
- Area of Phreatophytes

Note: Clark County 4-band digital aerials for March 2014 are shown, image courtesy of Southern Nevada Water Authority (SNWA).

0 2,000
Feet

N

RAMBOLL ENVIRON

DRAFTED BY: AS

DATE: 10/30/2015

AREA OF PHREATOPHYTES NEAR LAS VEGAS WASH
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
2b

PROJECT: 21-37300A

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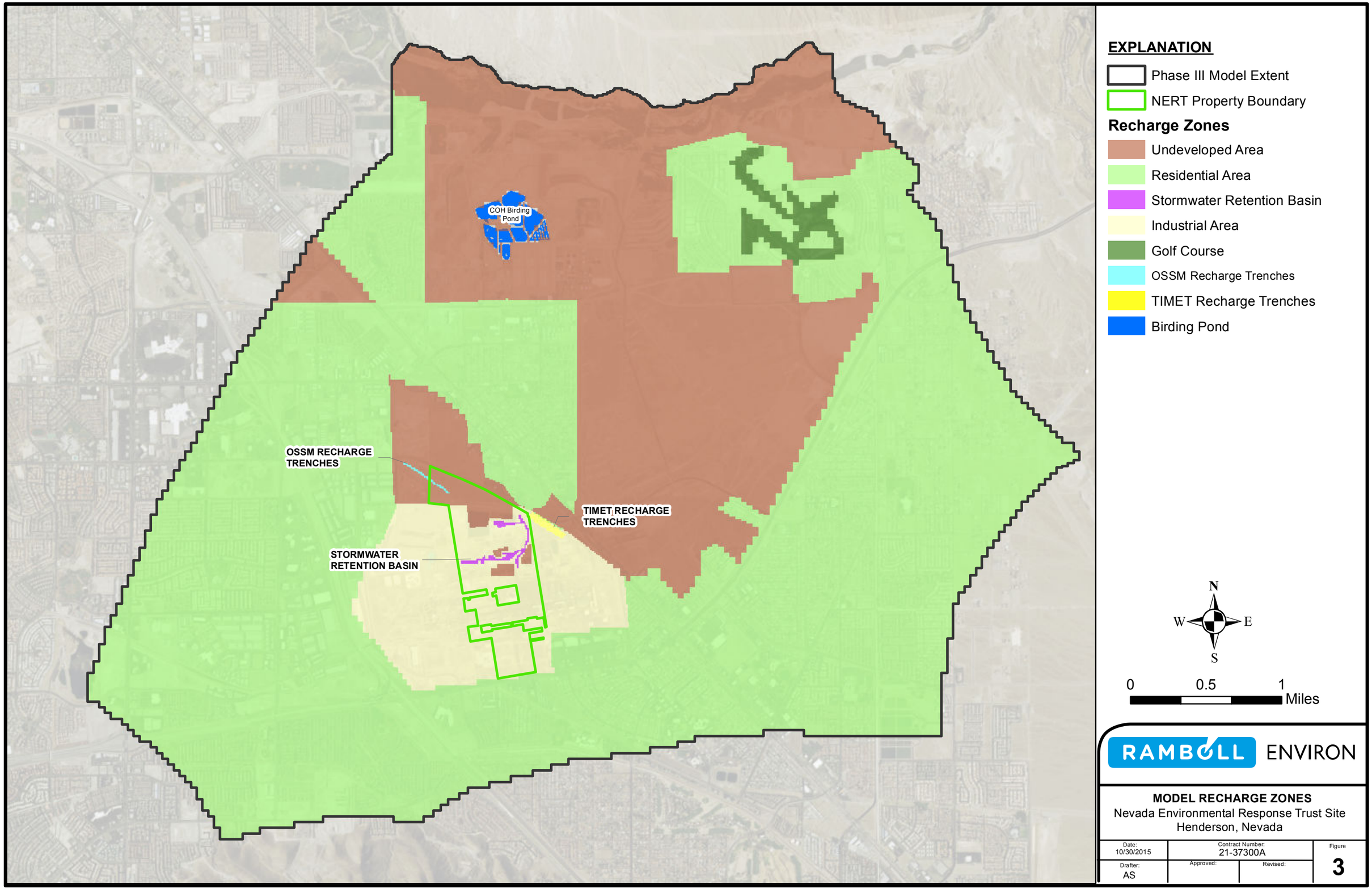


RAMBOLL ENVIRON

MODEL RECHARGE ZONES
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/30/2015	Contract Number: 21-37300A		Figure 3
Drafter: AS	Approved:	Revised:	

Path: H:\LePetomane\NERT\Modeling\Optimization Report\Phase 3 Modeling Report\Figures\Fig 3- Recharge Areas.mxd

EXPLANATION

Boundary Conditions

- Stream
- Specified Flux Boundary
- General Head Boundary
- Phase III Model Extent
- NERT Property Boundary

N
W E
S

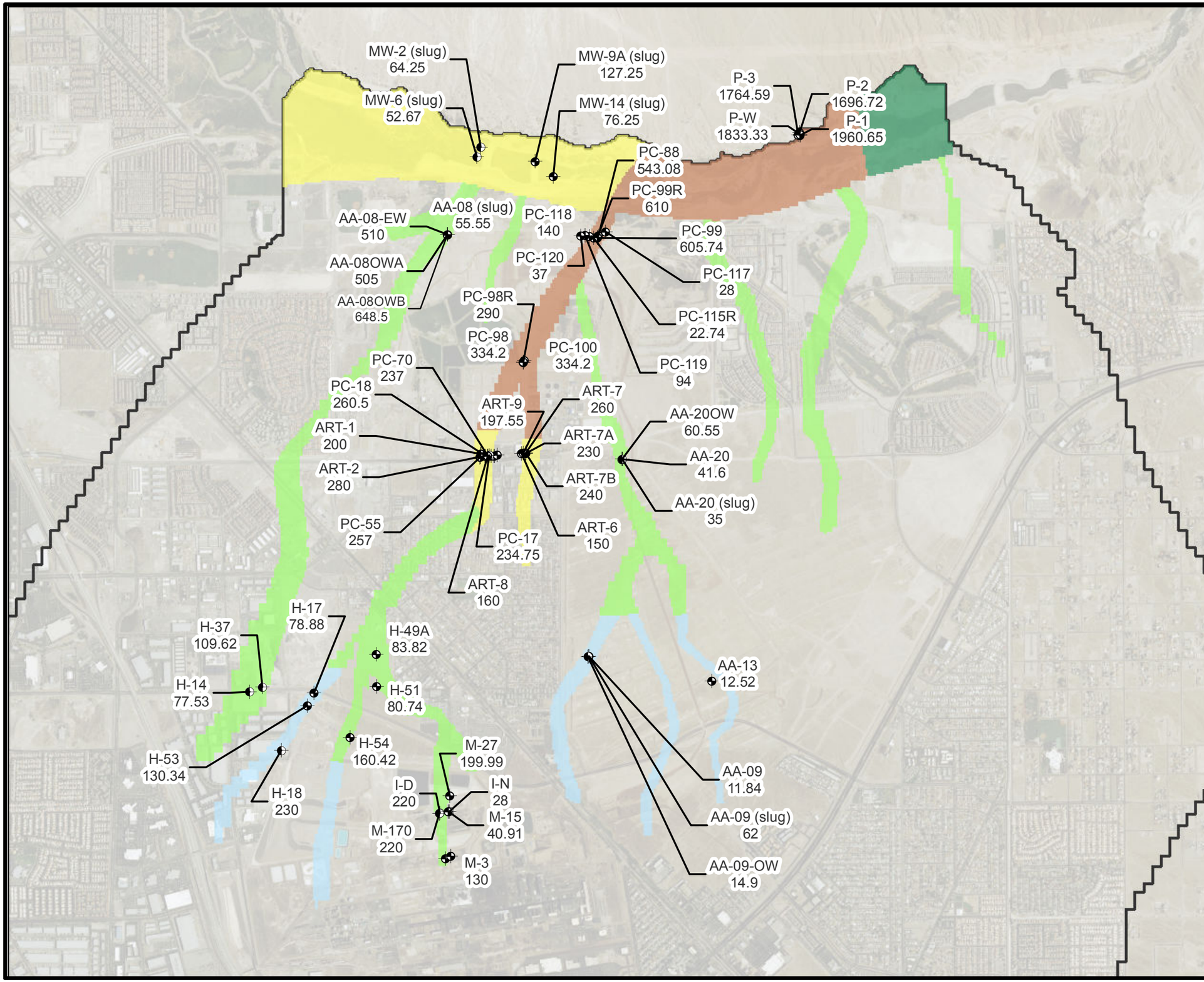
0 0.5 1 Miles

RAMBOLL ENVIRON

MODEL BOUNDARY CONDITIONS
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	4

Path: H:\LePetomane\NERT\Modeling\Optimization Report\Phase 3 Modeling Report\Figures\Fig 4- simulated boundary conditions.mxd



EXPLANATION

Aquifer Test Well Screened Unit

- Qal
- Qal/UMCf

Hydraulic Conductivity (ft/d)

- 100
- 200
- 300
- 485
- 600
- Phase III Model Extent

Notes:

Hydraulic conductivity values are in feet per day.

The hydraulic conductivity estimates are derived from pumping tests except where noted (slug test).

N
W E
S

0 0.425 0.85 Miles

RAMBOLL ENVIRON

AQUIFER TEST RESULTS NEAR PALEOCHANNELS

Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure
Drafter: KL	Approved:	Revised:	5

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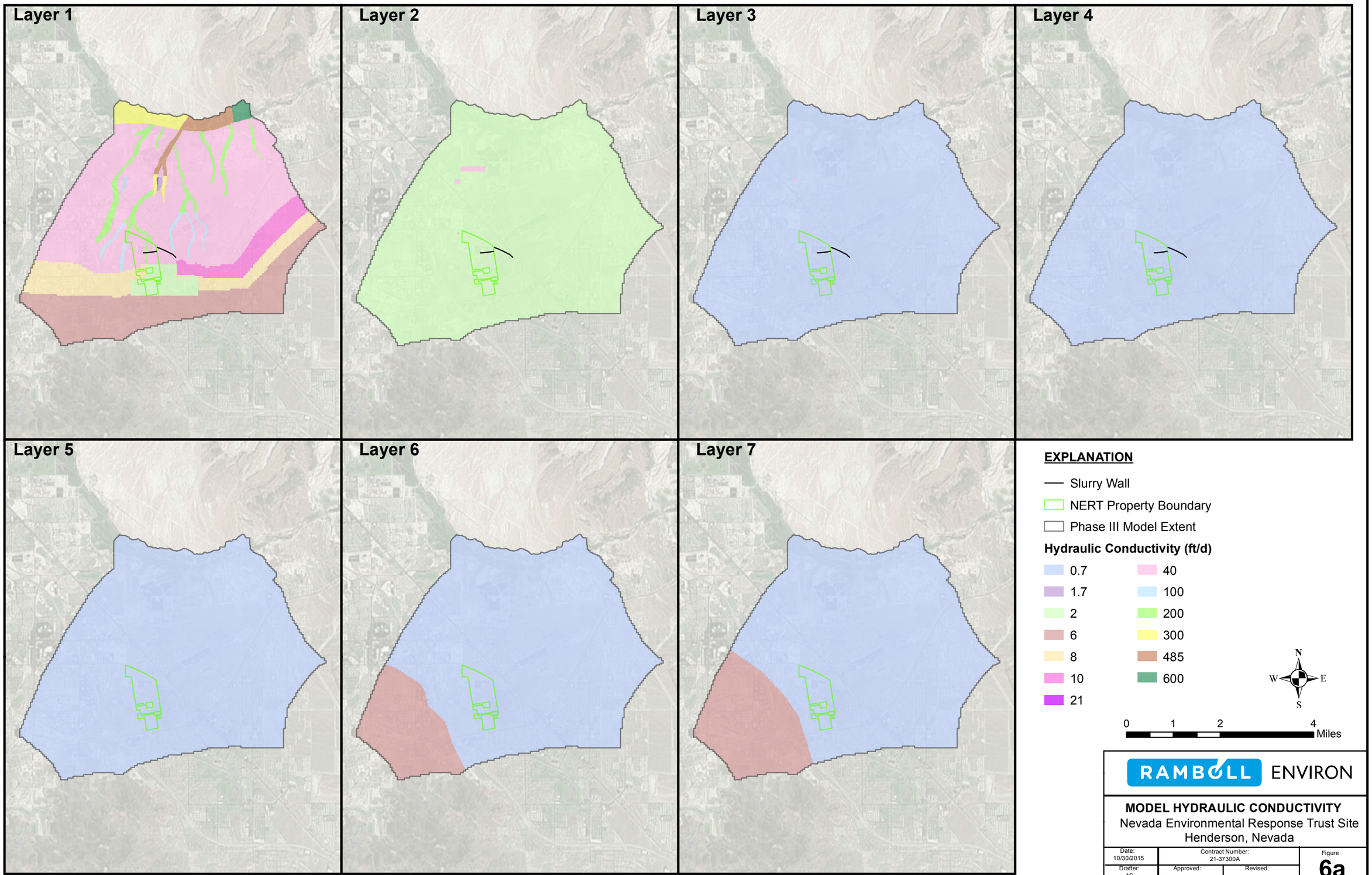
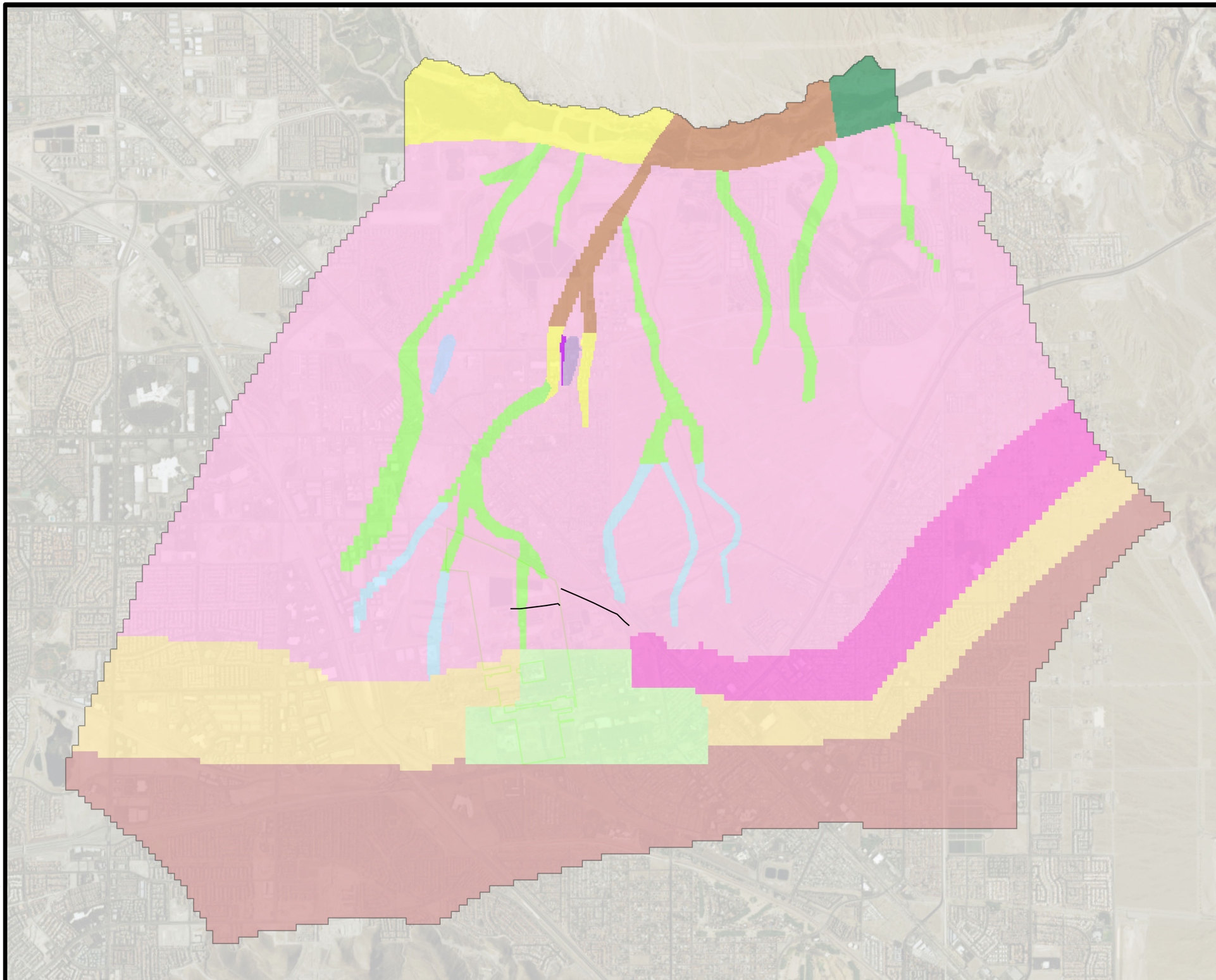


RAMBOLL ENVIRON

MODEL HYDRAULIC CONDUCTIVITY
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/30/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	6a

H:\LePetomane\NERT\Modeling\Optimization Report\Phase 3 Modeling Report\Figures\Fig 6a- Hydraulic Conductivity Dist.mxd WESAC aroe 10/30/2015



EXPLANATION

Slurry Wall

Hydraulic Conductivity (ft/d)

- 0.7
- 1.7
- 2
- 6
- 8
- 10
- 21
- 40
- 100
- 200
- 300
- 485
- 600
- NERT Property Boundary
- Phase III Model Extent

N
W E
S

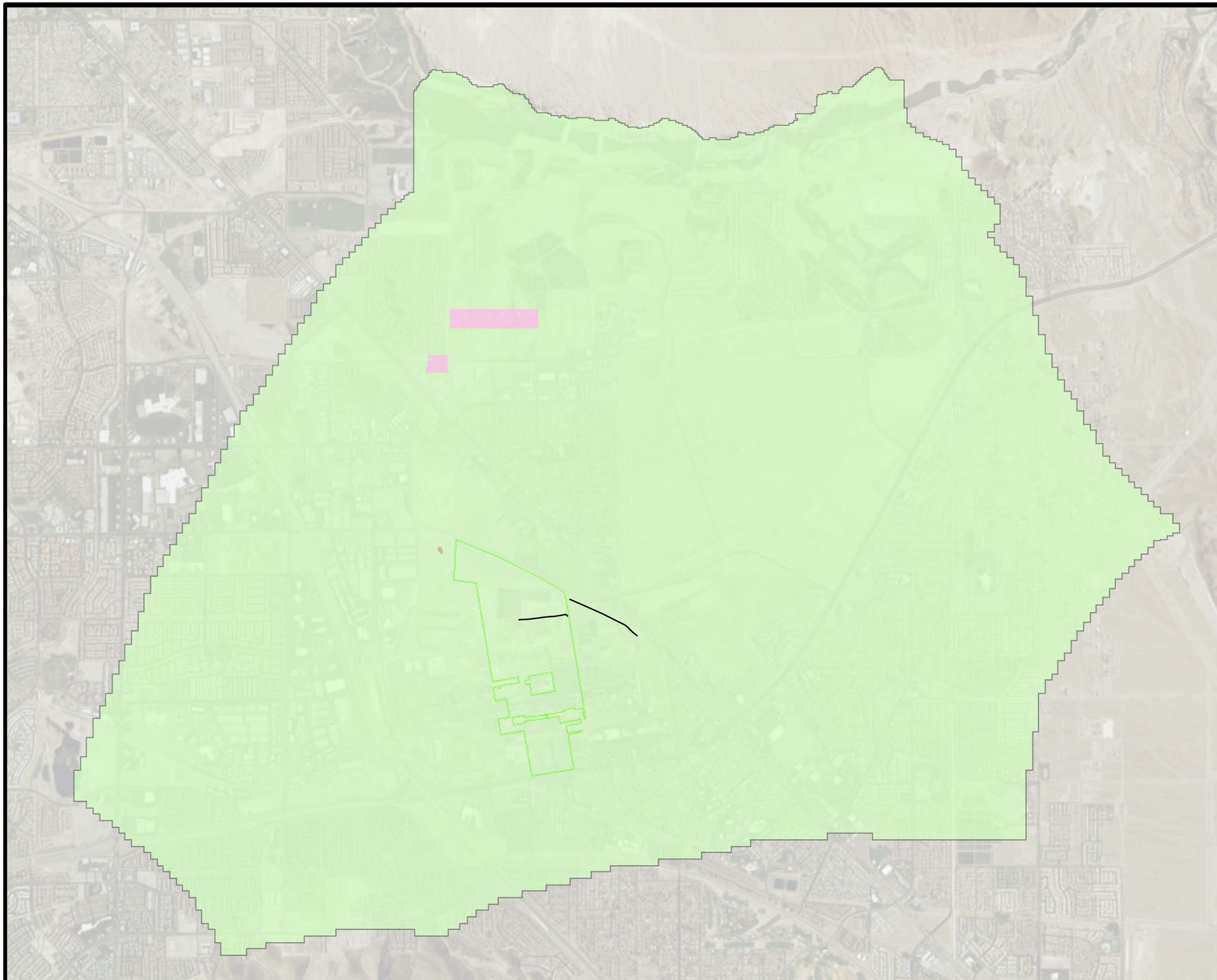
0 0.5 1 Miles

RAMBOLL ENVIRON

MODEL HYDRAULIC CONDUCTIVITY
LAYER 1
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/28/2015	Contract Number: 21-37300A		Figure
Drafter: KL	Approved:	Revised:	6b

Path: H:\LePetomane\NERT\Modeling\Optimization Report\Phase 3 Modeling Report\Figures\Fig 6b-Map of Hydraulic Conductivity Values_Layer1.mxd



EXPLANATION

- Slurry Wall
- NERT Property Boundary
- Phase III Model Extent

Hydraulic Conductivity (ft/d)

- 2
- 6
- 40

N
W E
S

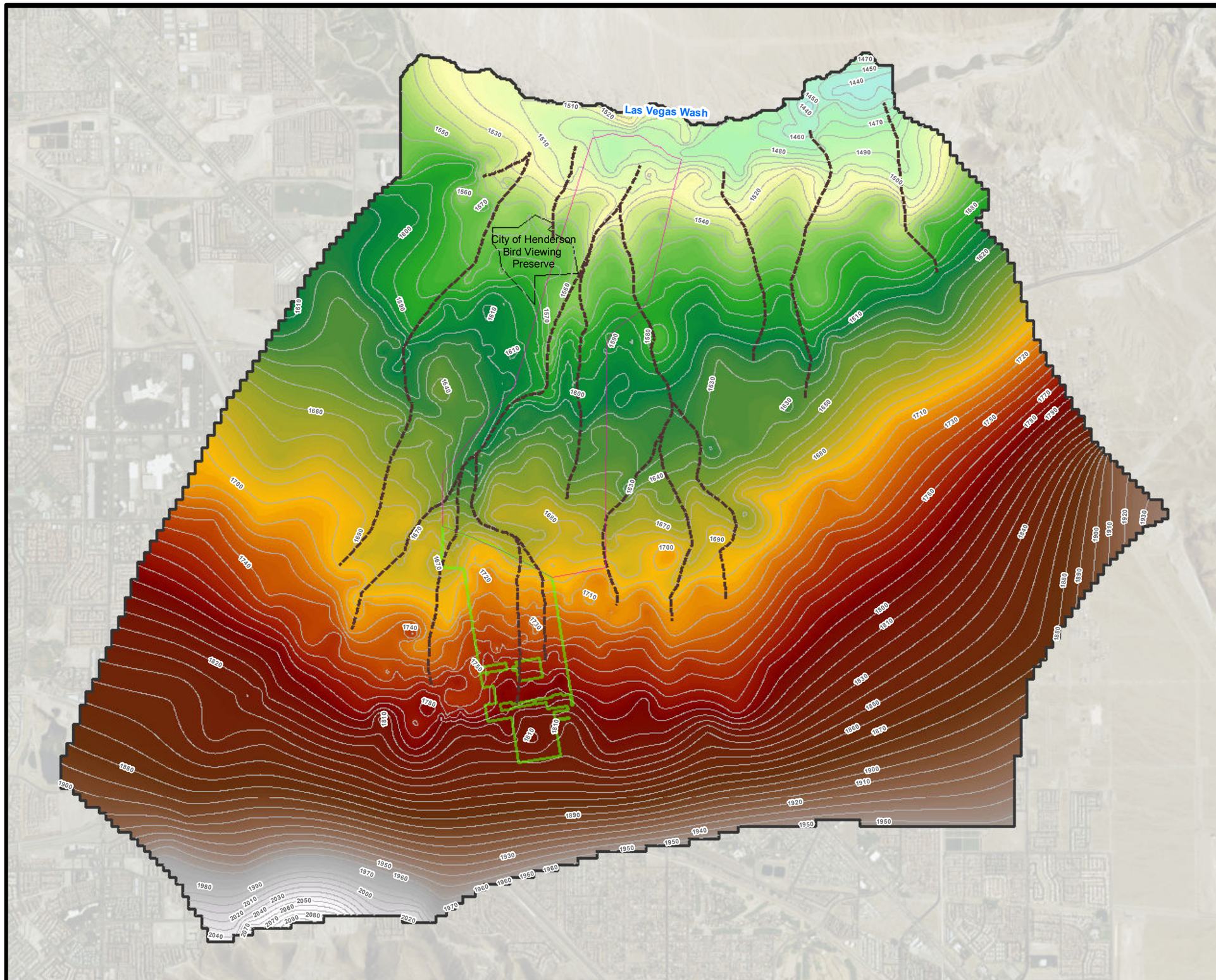
0 0.5 1 Miles

RAMBOLL ENVIRON

MODEL HYDRAULIC CONDUCTIVITY
LAYER 2
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure
Drafter: KL	Approved:	Revised:	6c

Path: H:\LePetomane\NERT\Modeling\Optimization Report\Phase 3 Modeling Report\Figures\Fig 6c - Map of Hydraulic Conductivity Values_Layer2.mxd



EXPLANATION

- Downgradient Plume
- Paleochannels
- NERT Property Boundary
- Contact Elevation Contour (10 feet)
- Phase III Model Extent

Alluvium-UMCf Contact Elevation (ft msl)

High : 2103

Low : 1432

N
W E
S

0 0.5 1 Miles

RAMBOLL ENVIRON

ALLUVIUM- UMCf CONTACT ELEVATION

Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	7

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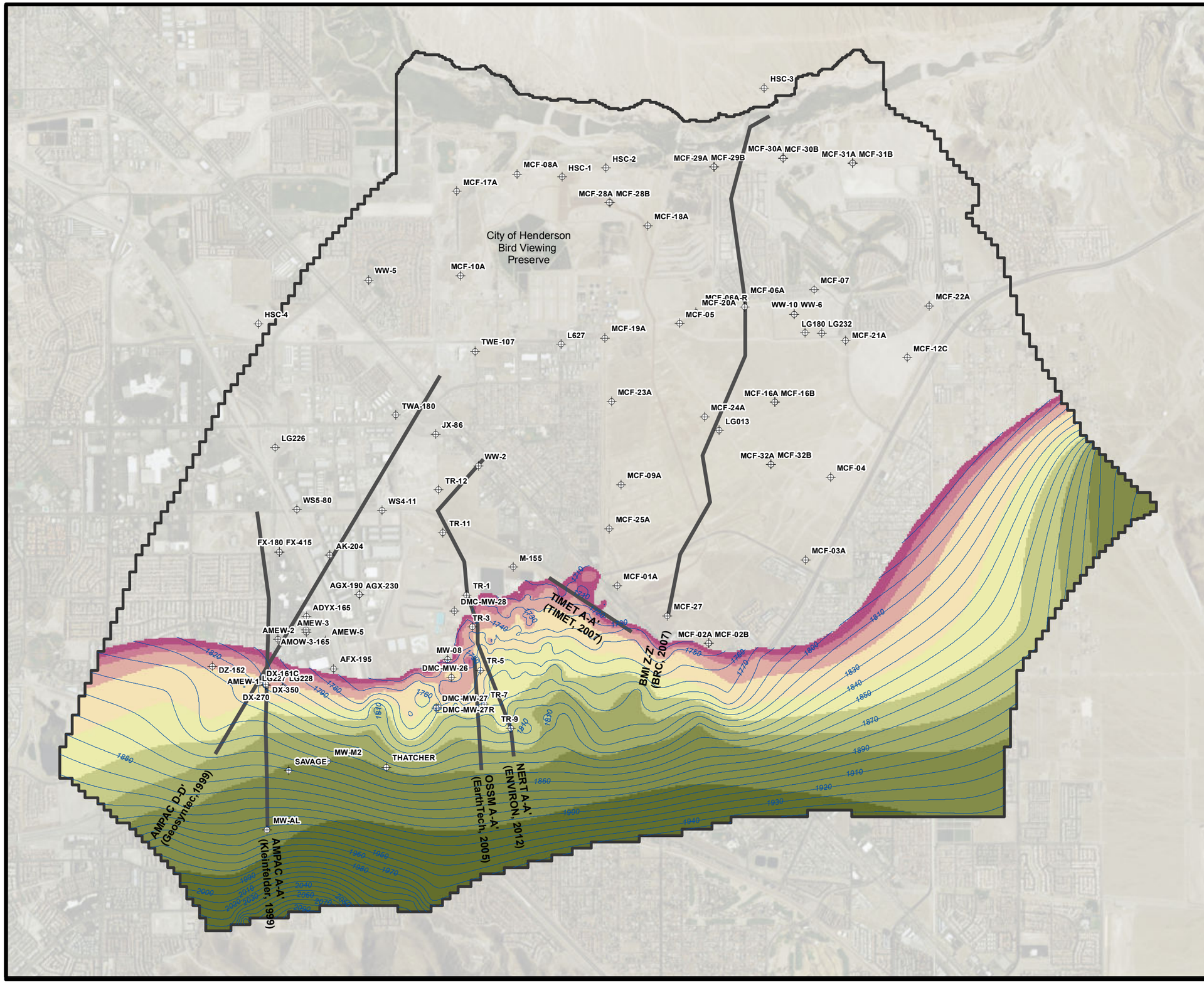

EXPLANATION

- Deep (>200 ft) borehole locations
- Cross-Section Location [1]
- Phase III Model Extent

UMCf-cg1 thickness (ft)

- 0 - 0.1
- 0.1 - 5
- 5 - 10
- 10 - 20
- 20 - 40
- 40 - 60
- 60 - 80
- 80 - 100
- 100 - 150
- 150 - 200

NOTES

[1] Sources of Cross Sections:

Basic Remediation Company (BRC). 2007. BRC Closure Plan, BMI Common Areas; Clark County, Nevada. May.

Earth Tech, 2005. Geologic Cross-Section A-A', Former Montrose Chemical Facility; Henderson, Nevada. July. (full report not found)

ENVIRON. 2014. Remedial Investigation and Feasibility Study Work Plan, Revision 2, Nevada Environmental Response Trust Site; Henderson, Nevada. June 19.

Geosyntec, 2010. Groundwater Flow Model, South of Warm Springs Study Area, Henderson, Nevada. Rev 2. March 31.

Kleinfelder, 1999. Hydrogeologic Investigation, American Pacific Corporation (Former Pepcon Facility); Henderson, Nevada.

Titanium Metals Corporation (TIMET). 2007. Conceptual Site Model. April 25.

N
W E
S

0 0.25 0.5 1 Miles

RAMBOLL ENVIRON

EXTENT OF SHALLOW UMCF COARSE GRAINED UNIT # 1

Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure 8
Drafter: LAT	Approved:	Revised:	

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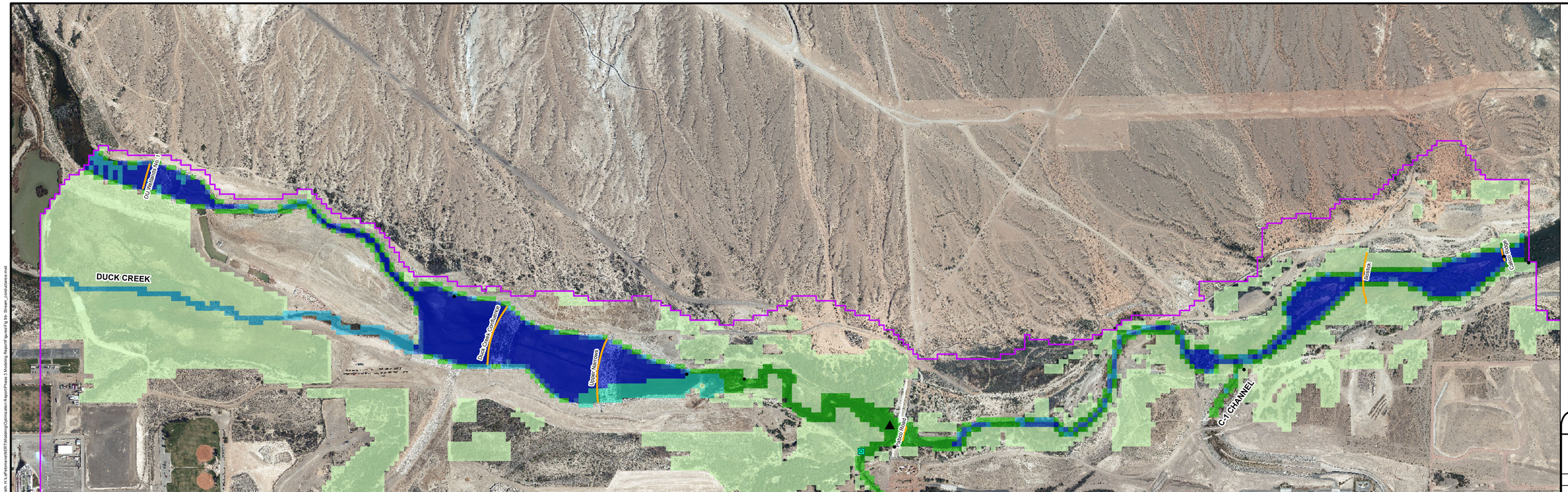

EXPLANATION

- NERT/AMPAC/TIMET/COH Outfall Location
- USGS Stream Gauge Stations
- SNWA Weirs
- Model Extent
- Area of Phreatophytes

Stream Conductance (ft^2/d)

- 31.25 - 50
- 50 - 150
- 150 - 300
- 300 - 450
- 450 - 600
- 600 - 937

Note: Clark County 4-band digital aerials for March 2014 are shown, image courtesy of Southern Nevada Water Authority (SNWA).

N

0 400 800 Feet

RAMBOLL ENVIRON

STREAM CONDUCTANCE

Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/30/2015	Contract Number: 21-37300A		Figure
Drafter: RS	Approved:	Revised:	9

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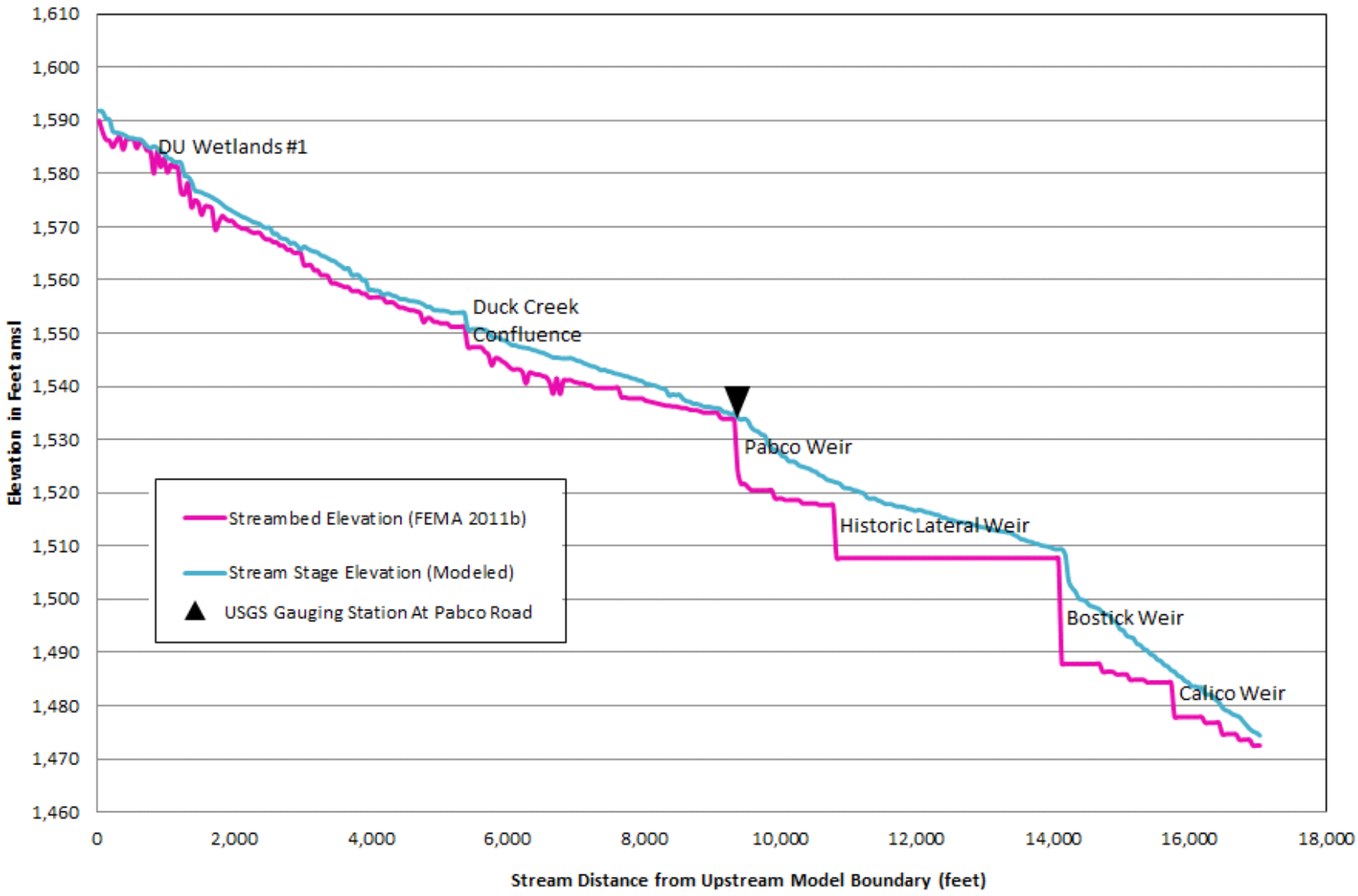
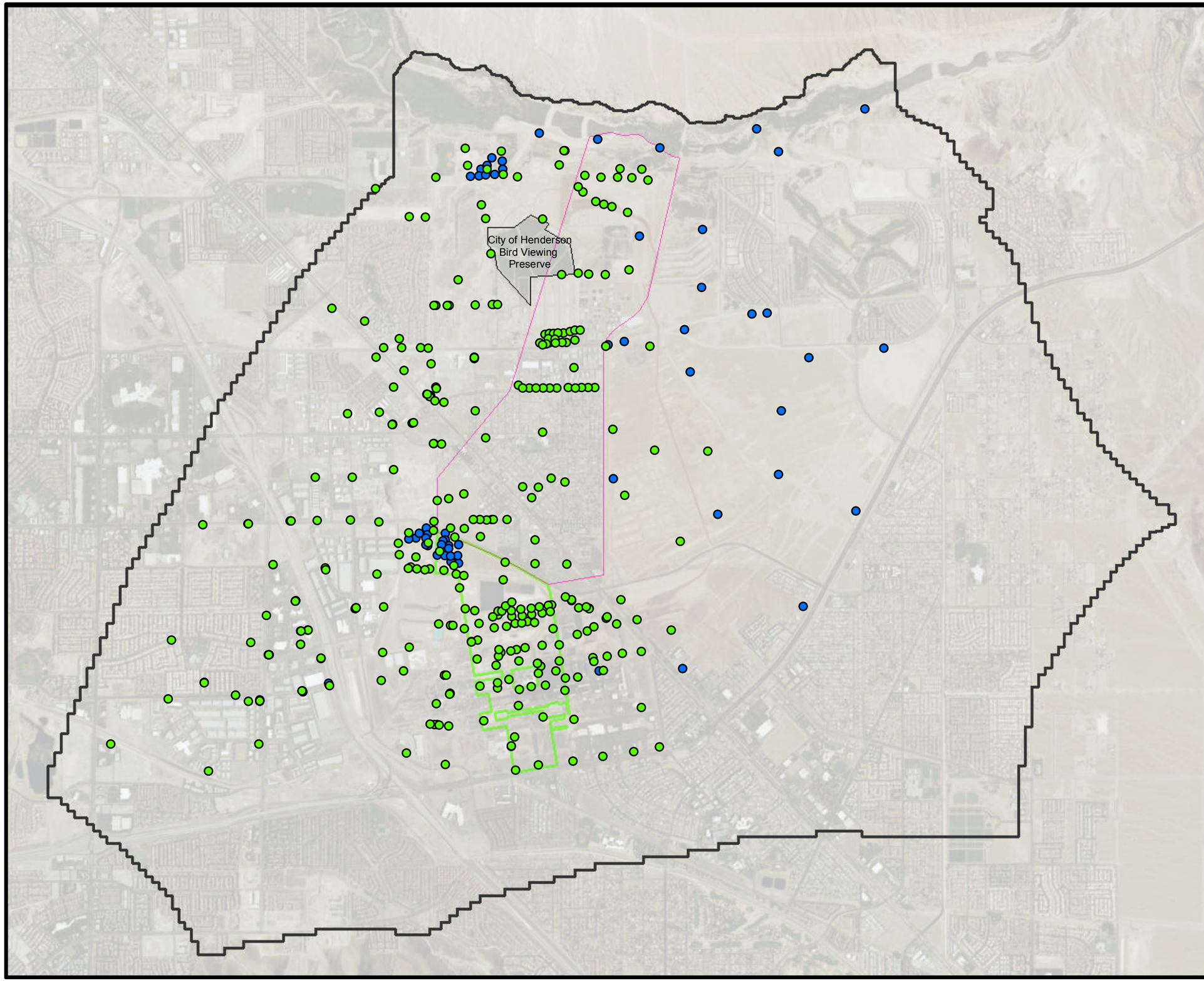


RAMBOLL ENVIRON

STREAM STAGE AND STREAMBED ELEVATION OF LAS VEGAS WASH
Nevada Environmental Response Trust (NERT) Site
Henderson, Nevada

Figure
10

Drafter: AS | Date: 09/30/15 | Contract Number: 21-37300A | Approved: | Revised:



EXPLANATION

Target Groups

- 1
- 2
- Downgradient Plume
- NERT Property Boundary
- Phase III Model Extent

Notes*:
Target Group 1: Accurate information about well location, well screen, and measured groundwater levels.

Target Group 2: Either well location information is approximate or the groundwater level measurements are not for second quarter 2014.

N
W E
S

0 0.5 1 Miles

RAMBOLL ENVIRON

MODEL TARGETS
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	11

Path: H:\LePetomane\NERT\Modeling\Optimization Report\Phase 3 Modeling Report\Figures\Fig -Model Targets_Phase3.mxd

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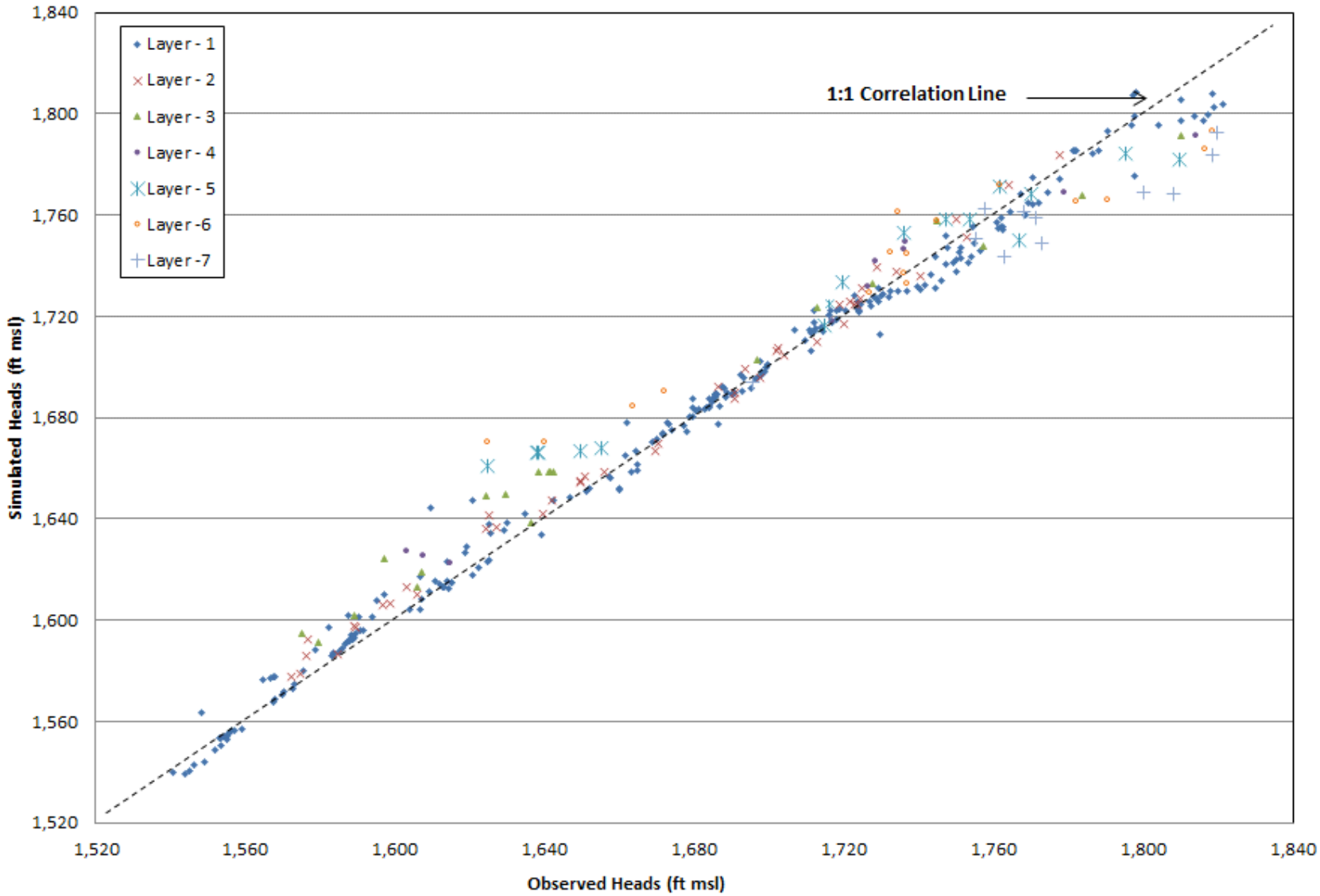
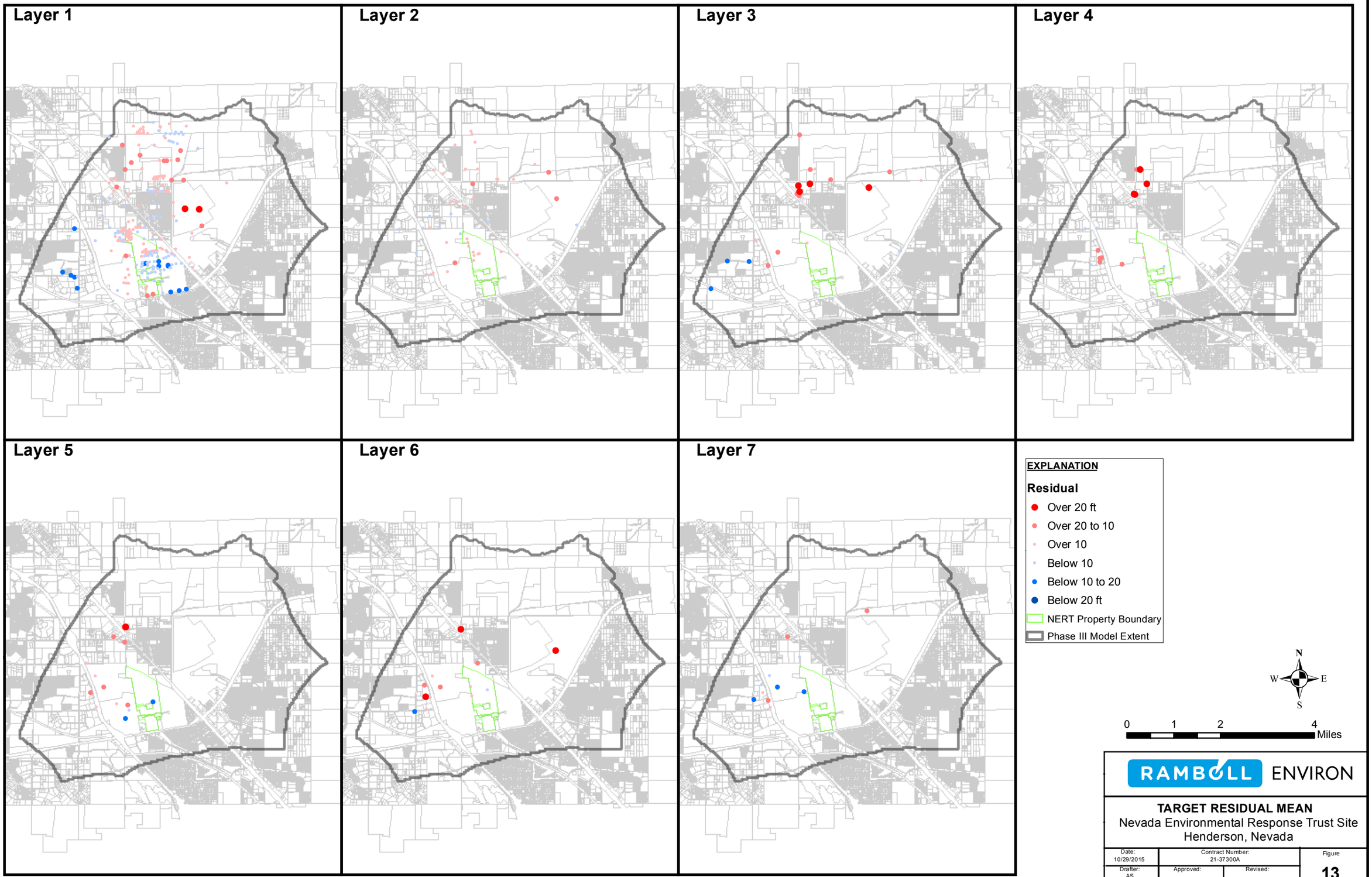


RAMBOLL ENVIRON

OBSERVED VERSUS SIMULATED GROUNDWATER ELEVATION
Nevada Environmental Response Trust Site
Henderson, Nevada

Figure
12

Drafter: AS | Date:09/30/2015 | Contract Number: 21-37300A | Approved: | Revised:



RAMBOLL ENVIRON

TARGET RESIDUAL MEAN

Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure
Drafter: AS	Approved:	Revised:	13

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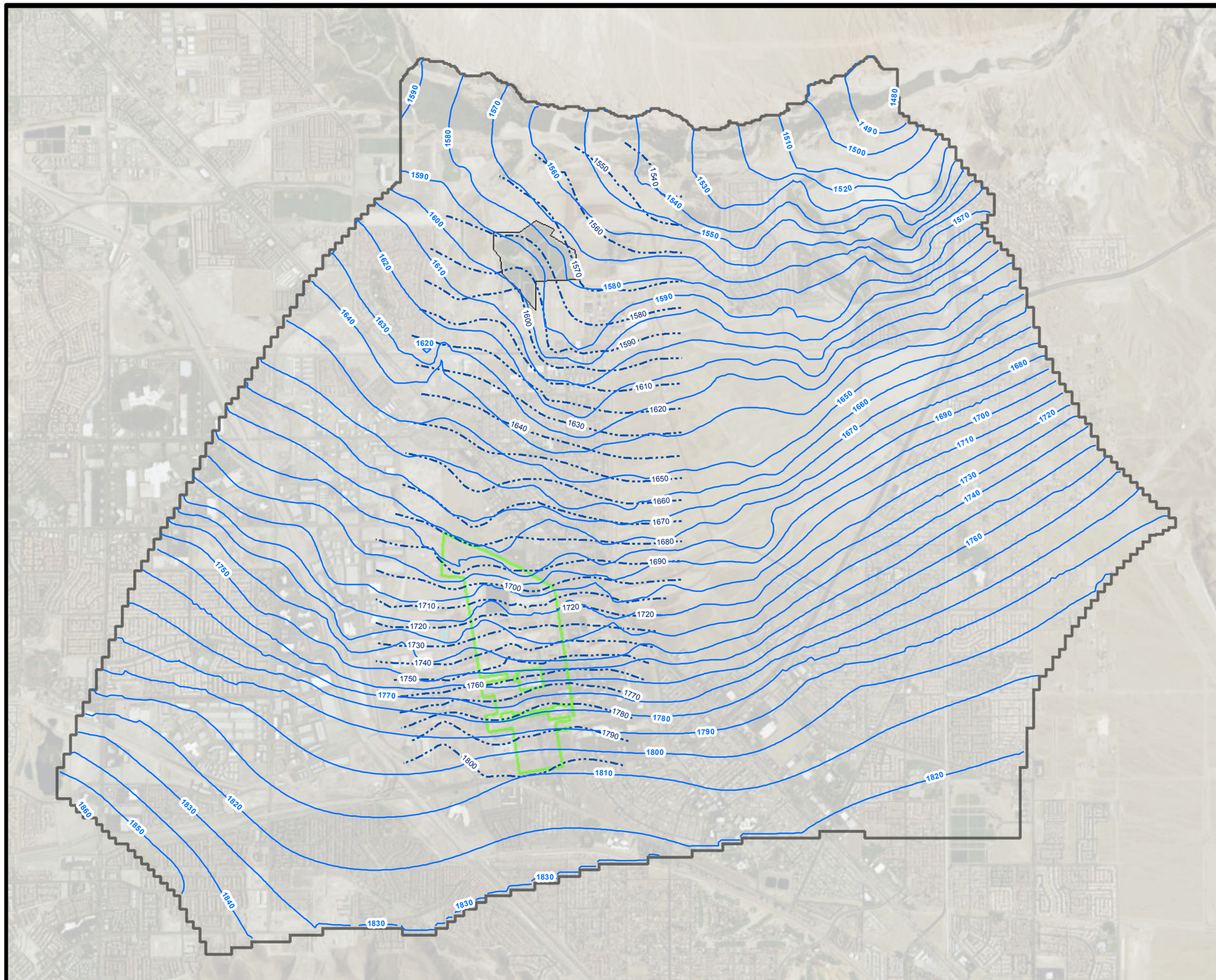

EXPLANATION

- Simulated Heads (ft amsl)
- Groundwater Elevations (ENVIRON 2014)
- Phase 3 Model Extent
- NERT Property Boundary

N
W E
S

0 0.5 1 Miles

RAMBOLL ENVIRON

SIMULATED GROUNDWATER ELEVATION
Nevada Environmental ResponseTrust Site
Henderson, Nevada

Date: 10/29/2015	Contract Number: 21-37300A		Figure 14
Drafter: AS	Approved:	Revised:	

Path: H:\LePetomane\NERT\Modeling\Optimization Report\Phase 3 Modeling Report\Figures\Fig 10- Simulated Water Levels.mxd

APPENDIX A1

MODEL TARGET GROUNDWATER ELEVATIONS

TABLE A-1: GROUNDWATER ELEVATIONS - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Observation Well Name	Easting	Northing	Target (ft amsl)	Mid-Screen Elevation (ft amsl)	Group
AA-01	830,921.12	26,720,238.47	1,709.69	1,715.93	1
AA-08	827,756.55	26,733,208.24	1,567.95	1,558.46	1
AA-09	831,041.59	26,723,441.40	1,657.52	1,646.61	1
AA-10	825,935.16	26,730,040.80	1,595.11	1,587.54	1
AA-11	830,672.66	26,725,458.78	1,629.31	1,641.00	1
AA-13	833,889.39	26,722,860.98	1,662.15	1,674.37	2
AA-18	836,690.87	26,727,656.38	1,609.34	1,611.10	2
AA-20	831,811.84	26,728,007.71	1,597.03	1,606.07	1
AA-21	826,148.08	26,734,078.78	1,573.30	1,559.13	1
AA-22	833,425.59	26,731,586.01	1,553.70	1,558.88	2
AA-27	832,471.34	26,719,301.66	1,722.72	1,715.35	1
AA-BW-03A	825,973.66	26,720,593.46	1,702.42	1,696.48	1
AA-BW-04A	825,492.25	26,721,142.81	1,693.16	1,687.47	1
AA-BW-05A	825,065.41	26,721,183.83	1,698.19	1,680.21	1
AA-BW-06A	824,476.16	26,721,238.26	1,699.32	1,696.28	1
AA-BW-08A	825,332.70	26,719,492.77	1,711.95	1,713.78	1
AA-BW-09A	825,703.31	26,719,455.90	1,716.32	1,718.59	1
AA-BW-12A	824,440.21	26,718,772.36	1,728.69	1,717.54	1
AA-MW-05	824,351.37	26,715,530.83	1,797.03	1,798.00	1
AA-MW-07	826,126.54	26,719,344.40	1,726.51	1,711.41	1
AA-MW-13R	825,265.78	26,717,045.47	1,770.43	1,763.19	1
AA-MW-25	825,508.33	26,717,917.91	1,747.43	1,747.60	1
AA-UW1	831,427.20	26,719,624.99	1,723.67	1,712.13	1
AA-UW2	832,819.54	26,718,117.11	1,754.38	1,753.68	2
AA-UW4	836,517.02	26,720,029.40	1,757.14	1,752.18	2
AA-UW5	838,134.66	26,722,958.50	1,719.85	1,718.91	2
AAX-15	823,068.13	26,728,783.01	1,627.18	1,621.80	1
ACX-16	823,946.00	26,724,229.00	1,670.34	1,659.10	1
ACY-15	821,545.80	26,723,985.40	1,690.90	1,679.70	1
ADX-112	821,160.00	26,717,441.30	1,761.72	1,683.00	2
ADX-135	821,150.50	26,717,438.90	1,745.28	1,665.15	1
ADX-156	821,137.00	26,717,435.40	1,747.20	1,637.10	1
ADY-36	821,333.30	26,719,305.80	1,736.41	1,720.20	1
ADY-70	821,323.00	26,719,305.80	1,735.95	1,691.20	2
ADYX-165	821,116.31	26,719,273.57	1,757.77	1,588.14	1
ADYX-38	821,103.55	26,719,268.39	1,739.71	1,720.35	2
AEX-166	821,722.10	26,718,430.50	1,752.22	1,607.30	2
AEX-35	821,720.40	26,718,438.60	1,744.78	1,737.70	1
AFX-195	821,975.43	26,717,633.77	1,771.52	1,598.05	2
AFX-30	821,985.53	26,717,595.85	1,763.97	1,761.21	1
AFX-75	821,964.11	26,717,675.40	1,761.71	1,714.66	2
AGX-160	822,790.37	26,719,978.45	1,732.30	1,585.90	2
AGX-190	822,783.01	26,719,971.82	1,738.75	1,556.70	2
AGX-230	822,775.64	26,719,965.45	1,771.12	1,517.30	1
AGX-50	822,804.72	26,719,991.41	1,712.66	1,696.30	1
AGX-90	822,797.72	26,719,984.41	1,719.67	1,656.30	2
AK-145	821,864.56	26,721,172.30	1,736.00	1,581.90	2
AK-204	821,851.29	26,721,204.59	1,755.13	1,522.27	1

TABLE A-1: GROUNDWATER ELEVATIONS - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Observation Well Name	Easting	Northing	Target (ft amsl)	Mid-Screen Elevation (ft amsl)	Group
AK-25	821,872.05	26,721,155.18	1,711.20	1,702.22	1
AK-86	821,868.13	26,721,163.69	1,715.85	1,641.04	2
AMOW-3-165	821,100.92	26,718,862.91	1,734.58	1,600.57	1
AMOW-3-52	821,097.77	26,718,872.31	1,745.35	1,718.35	2
AMX-166	820,953.20	26,720,201.00	1,768.00	1,585.60	1
AMX-40	820,936.20	26,720,195.70	1,728.34	1,711.20	1
AMX-98	820,944.70	26,720,198.20	1,744.84	1,655.60	2
APX-1-45	825,255.70	26,729,255.10	1,607.60	1,573.70	1
APX-2-45	825,650.90	26,729,263.00	1,603.13	1,571.10	1
APX-2-P1O1	825,601.60	26,729,261.20	1,603.18	1,594.50	1
APX-4-20	826,451.20	26,729,275.10	1,607.08	1,595.70	1
APX-5-16	827,009.30	26,729,285.00	1,605.88	1,595.40	1
APX-5-7	826,987.80	26,729,285.20	1,606.14	1,606.10	1
APX-7-14	825,193.10	26,729,254.30	1,606.69	1,598.20	1
ARP-1	828,593.16	26,728,365.51	1,588.78	1,584.33	1
ARP-2A	828,722.80	26,728,404.34	1,588.15	1,576.05	1
ARP-3A	828,856.20	26,728,402.86	1,587.24	1,583.81	1
ARP-4A	829,167.89	26,728,411.81	1,586.12	1,590.52	1
ARP-5A	829,375.01	26,728,458.43	1,583.72	1,591.30	1
ARP-6B	829,520.52	26,728,499.92	1,583.69	1,580.50	1
ARP-7	829,668.22	26,728,501.08	1,583.32	1,586.89	1
B01	825,676.63	26,717,341.36	1,767.09	1,758.39	1
BEC-4	830,699.33	26,723,946.72	1,651.96	1,648.84	2
BEC-9	833,049.52	26,727,221.50	1,597.29	1,596.24	2
BHE1-10	828,193.10	26,723,364.50	1,669.76	1,660.70	1
BRW-R1	831,558.84	26,716,928.10	1,797.80	1,794.10	1
CLD4-R	829,034.28	26,718,854.29	1,744.30	1,744.50	1
CP-1	825,287.67	26,716,403.47	1,795.21	1,704.00	1
CMT-101	829,635.17	26,719,980.31	1,722.95	1,703.25	1
CSMMW-1	829,601.30	26,717,854.87	1,768.58	1,765.50	1
CSMMW-2	830,257.07	26,718,054.66	1,762.59	1,760.50	2
DBMW-1	830,462.90	26,728,009.64	1,590.21	1,593.00	1
DBMW-14	838,987.26	26,727,957.62	1,636.57	1,631.89	2
DBMW-19	831,488.74	26,731,383.23	1,548.48	1,553.24	2
DBMW-2	830,530.28	26,728,059.44	1,593.80	1,595.01	2
DBMW-3	831,032.81	26,728,150.18	1,596.90	1,594.40	2
DBMW-5	833,398.98	26,729,807.56	1,584.71	1,582.19	2
DBMW-8	835,406.87	26,729,027.21	1,575.24	1,571.96	2
DM-1	832,745.01	26,722,024.65	1,679.79	1,686.50	1
DMC-MW-26	825,692.03	26,717,360.62	1,819.51	1,531.34	2
DMC-MW-27R	825,211.51	26,716,407.16	1,819.58	1,580.71	1
DMC-MW-28	825,775.48	26,719,450.04	1,763.03	1,485.62	1
DPT-01	825,680.22	26,717,349.85	1,770.09	1,686.45	2
DX-121	819,846.10	26,717,149.50	1,779.78	1,699.10	2
DX-161	819,845.60	26,717,159.40	1,782.04	1,659.10	2
DX-24	819,502.00	26,717,126.30	1,809.90	1,801.00	1
DX-270	819,846.00	26,717,118.00	1,834.00	1,550.50	2
DX-30	819,846.50	26,717,128.90	1,804.15	1,790.20	1

TABLE A-1: GROUNDWATER ELEVATIONS - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Observation Well Name	Easting	Northing	Target (ft amsl)	Mid-Screen Elevation (ft amsl)	Group
DX-75	819,846.60	26,717,139.50	1,809.86	1,745.10	2
DY-106	820,116.60	26,718,551.30	1,790.49	1,684.40	2
DY-169	820,135.30	26,718,550.80	1,777.80	1,621.40	2
DY-26	820,125.60	26,718,551.10	1,778.85	1,764.60	1
DZ-15	818,150.03	26,717,687.40	1,818.68	1,812.03	1
DZ-152	818,149.68	26,717,703.43	1,816.44	1,674.68	2
EC-10	823,570.10	26,717,752.81	1,749.90	1,743.93	1
EC-14	824,258.28	26,718,049.25	1,753.72	1,669.87	1
F3-27	819,578.43	26,718,923.53	1,783.56	1,763.20	1
FX-180	820,259.00	26,721,316.00	NR	1,567.70	2
FX-25	820,249.00	26,721,316.00	1,727.55	1,722.30	1
H-10A	825,185.53	26,722,638.83	1,672.76	1,670.70	1
H-18A	824,126.38	26,721,612.61	1,698.06	1,689.52	1
H-19	824,407.06	26,721,202.71	1,699.62	1,687.29	1
H-21R	824,914.54	26,721,148.51	1,698.83	1,692.14	1
H-28	825,871.32	26,721,021.82	1,693.82	1,685.18	1
H-43	824,660.68	26,721,179.60	1,699.39	1,691.70	1
H-49A	826,110.29	26,723,485.40	1,661.69	1,647.64	1
H-55	823,645.49	26,720,010.20	1,710.90	1,714.56	1
H-58A	825,642.55	26,723,331.88	1,664.49	1,643.98	1
J2D1-R2	829,885.78	26,719,274.00	1,734.38	1,739.20	1
J2D2-R2	830,098.48	26,719,406.73	1,732.44	1,733.70	1
J2D4	829,582.57	26,719,171.05	1,736.97	1,741.30	1
J2U1	830,498.14	26,718,499.09	1,749.17	1,754.30	1
J2U2	830,063.17	26,718,456.02	1,753.27	1,747.50	1
JX-11	825,170.27	26,725,018.41	1,657.11	1,650.82	1
JX-86	825,186.08	26,725,018.66	1,655.27	1,573.21	2
KX-18	823,949.00	26,726,751.40	1,634.61	1,629.40	1
KY-23	824,268.80	26,727,268.40	1,625.36	1,620.60	1
M-10	828,536.18	26,716,636.63	1,786.50	1,781.11	1
M-11	828,617.03	26,717,608.56	1,772.14	1,770.45	1
M-115	827,243.65	26,718,612.90	1,750.25	1,743.44	1
M-120	828,387.79	26,715,162.90	1,797.43	1,785.81	1
M-121	827,694.57	26,715,011.24	1,797.91	1,785.90	1
M-123	826,516.40	26,718,416.92	1,744.26	1,738.76	1
M-124	827,092.23	26,718,226.14	1,751.09	1,743.34	1
M-125	826,531.82	26,718,993.90	1,733.89	1,726.01	1
M-126	826,569.37	26,719,505.57	1,724.70	1,726.70	1
M-128	827,171.63	26,718,501.70	1,747.32	1,733.44	1
M-129	828,806.43	26,720,079.64	1,718.04	1,714.48	1
M-12A	828,178.52	26,717,575.29	1,770.60	1,767.72	1
M-13	827,806.03	26,717,477.66	1,769.45	1,775.49	1
M-131	827,158.08	26,719,770.57	1,721.62	1,717.35	1
M-133	828,698.61	26,720,067.29	1,716.90	1,676.23	1
M-135	827,154.48	26,719,890.17	1,718.96	1,715.47	1
M-137	827,666.01	26,716,034.02	1,790.33	1,783.31	1
M-141	828,465.43	26,718,195.34	1,754.92	1,752.97	1
M-142	827,191.75	26,718,713.09	1,743.39	1,736.54	1

TABLE A-1: GROUNDWATER ELEVATIONS - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Observation Well Name	Easting	Northing	Target (ft amsl)	Mid-Screen Elevation (ft amsl)	Group
M-145	829,205.27	26,717,451.15	1,774.50	1,760.20	1
M-146	827,774.94	26,716,991.91	1,777.71	1,767.65	1
M-148A	829,030.35	26,718,357.14	1,753.90	1,753.04	1
M-149	828,373.09	26,718,285.82	1,752.25	1,687.14	2
M-14A	827,045.36	26,719,382.67	1,729.14	1,728.38	1
M-150	828,058.96	26,719,569.84	1,736.71	1,621.50	1
M-152	826,973.49	26,722,690.63	1,672.19	1,560.79	1
M-153	828,385.63	26,718,288.08	1,766.70	1,637.15	2
M-19	828,846.19	26,719,350.03	1,732.04	1,739.91	1
M-21	827,792.86	26,718,359.30	1,751.30	1,762.37	1
M-22A	828,270.11	26,719,531.63	1,729.38	1,732.90	1
M-23	827,373.96	26,721,391.25	1,686.83	1,694.03	1
M-25	827,677.80	26,719,503.57	1,727.86	1,725.39	1
M-2A	827,984.75	26,718,769.56	1,739.69	1,745.23	1
M-31A	828,368.37	26,718,289.58	1,751.03	1,751.94	1
M-35	828,509.37	26,718,840.13	1,740.57	1,740.55	1
M-37	827,414.22	26,719,422.01	1,730.13	1,730.63	1
M-38	827,877.66	26,719,523.27	1,728.89	1,730.32	1
M-44	827,005.61	26,722,699.15	1,674.18	1,675.74	1
M-48A	828,294.38	26,721,339.07	1,688.34	1,688.88	1
M-52	828,394.48	26,717,985.39	1,761.25	1,759.96	1
M-57A	826,993.31	26,719,716.74	1,724.33	1,721.23	1
M-64	827,580.25	26,719,726.63	1,723.50	1,723.80	1
M-65	827,899.72	26,719,746.36	1,724.61	1,725.14	1
M-66	828,183.64	26,719,787.47	1,723.48	1,721.80	1
M-67	828,508.52	26,719,829.72	1,724.00	1,720.84	1
M-68	828,751.00	26,719,864.47	1,724.08	1,721.66	1
M-69	827,265.73	26,719,885.28	1,716.18	1,718.20	1
M-70	827,567.35	26,719,904.69	1,713.88	1,718.35	1
M-71	827,859.71	26,719,943.63	1,712.02	1,715.12	1
M-72	828,172.13	26,719,977.14	1,714.62	1,722.17	1
M-73	828,427.82	26,720,018.47	1,712.46	1,715.47	1
M-74	828,713.65	26,720,062.18	1,716.76	1,718.42	2
M-75	827,718.82	26,718,702.64	1,741.83	1,739.97	1
M-76	827,550.73	26,718,659.92	1,746.03	1,739.73	1
M-77	828,932.32	26,718,046.00	1,762.46	1,761.93	1
M-79	827,382.10	26,720,048.92	1,711.94	1,719.47	1
M-7B	826,106.50	26,720,979.66	1,696.64	1,692.35	1
M-83	827,584.70	26,720,159.92	1,711.14	1,713.51	1
M-92	827,138.09	26,717,531.94	1,764.28	1,758.09	1
M-93	827,143.44	26,717,685.92	1,761.96	1,757.41	1
M-95	827,426.74	26,722,701.69	1,677.17	1,677.52	1
M-97	827,492.47	26,717,795.18	1,760.93	1,758.35	1
M-99	827,309.69	26,720,851.72	1,697.50	1,704.79	1
MC100	825,791.43	26,721,421.10	1,686.61	1,678.41	2
MC102	825,360.37	26,721,725.67	1,685.30	1,674.43	1
MC103	825,009.31	26,721,975.65	1,690.69	1,680.85	1
MC109	825,294.38	26,721,609.56	1,686.00	1,684.57	2

TABLE A-1: GROUNDWATER ELEVATIONS - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Observation Well Name	Easting	Northing	Target (ft amsl)	Mid-Screen Elevation (ft amsl)	Group
MC111	825,942.13	26,721,355.46	1,687.66	1,692.09	2
MC113	825,538.88	26,722,279.41	1,679.63	1,673.44	2
MC114	825,835.01	26,722,158.53	1,678.65	1,675.48	1
MC-120	824,999.35	26,721,888.67	1,690.83	1,691.00	2
MC-125	824,944.69	26,721,928.06	1,689.94	1,686.18	2
MC-127	825,805.48	26,721,281.42	1,688.09	1,694.22	1
MC-128	824,642.14	26,722,133.70	1,690.59	1,685.46	2
MC-138	825,712.47	26,721,394.18	1,686.17	1,689.48	2
MC33	824,104.02	26,721,968.11	1,696.47	1,692.92	1
MC41	825,520.41	26,721,583.32	1,685.46	1,679.86	2
MC48	824,952.84	26,722,431.11	1,679.45	1,680.20	2
MC49	825,182.72	26,722,360.49	1,680.47	1,677.33	1
MC50	825,534.87	26,722,076.15	1,682.95	1,675.49	2
MC51	825,647.67	26,721,900.05	1,684.15	1,677.62	2
MC53	825,942.24	26,721,920.01	1,683.09	1,683.34	2
MC58	824,989.32	26,722,230.58	1,684.13	1,685.60	2
MC61	825,702.25	26,722,433.39	1,673.34	1,667.89	1
MC65	826,119.27	26,722,421.15	1,671.56	1,673.12	1
MC81	824,637.59	26,721,548.31	1,697.01	1,693.58	1
MC84	824,413.48	26,722,287.11	1,692.68	1,679.23	1
MC87	824,735.41	26,722,276.80	1,685.80	1,680.52	2
MC89	824,948.93	26,722,120.35	1,688.93	1,683.98	2
MC92	825,467.59	26,722,035.56	1,683.99	1,668.44	2
MC94	825,912.02	26,721,595.27	1,685.50	1,683.86	2
MC95	825,642.30	26,721,800.45	1,684.93	1,673.73	2
MC98	825,696.66	26,721,567.14	1,685.74	1,681.07	2
MCF-05	832,871.21	26,728,512.84	1,601.51	1,399.03	2
MCF-06C	834,945.84	26,729,004.59	1,576.94	1,578.92	2
MCF-16C	835,846.38	26,726,030.18	1,625.37	1,626.88	2
MCF-32B	835,753.14	26,724,074.91	1,663.59	1,578.31	2
MCF-BW-10A	823,621.72	26,718,620.39	1,736.23	1,712.81	1
MC-MW-10	825,523.88	26,717,919.06	1,747.25	1,701.21	2
MW-01	825,536.01	26,715,187.41	1,797.58	1,757.26	1
MW-02	825,639.84	26,716,364.20	1,781.85	1,767.30	1
MW-03	825,354.12	26,716,390.46	1,781.47	1,774.01	1
MW-04	825,073.90	26,716,415.06	1,782.03	1,770.38	1
MW-08	825,564.56	26,717,925.04	1,808.15	1,515.95	1
MW-16	826,447.64	26,719,904.41	1,718.68	1,719.79	1
MW-AA	822,059.00	26,729,177.00	1,639.48	1,632.75	1
MW-AB	822,535.00	26,725,941.00	1,663.30	1,655.95	1
MW-AC	822,686.00	26,723,991.00	1,686.48	1,681.80	1
MW-AD	821,179.00	26,717,406.00	1,777.81	1,769.30	2
MW-AHX	823,443.00	26,721,020.30	1,702.17	1,678.10	1
MW-AJ	826,455.00	26,726,030.00	1,641.90	1,629.30	1
MW-AX-72	818,280.30	26,714,977.50	1,848.16	1,804.10	1
MW-C	819,813.00	26,715,809.70	1,821.42	1,795.40	1
MW-D2D	819,110.50	26,717,312.60	1,814.21	1,772.30	1
MW-D2S	819,110.50	26,717,312.60	1,813.74	1,809.20	1

TABLE A-1: GROUNDWATER ELEVATIONS - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Observation Well Name	Easting	Northing	Target (ft amsl)	Mid-Screen Elevation (ft amsl)	Group
MW-E	815,276.80	26,715,804.80	1,840.30	1,806.50	1
MW-F2	820,057.00	26,719,757.00	1,752.98	1,752.60	1
MW-I	817,038.00	26,717,185.00	1,843.10	1,817.20	1
MW-K	823,523.00	26,725,991.00	1,651.08	1,648.60	1
MW-K1	827,777.00	26,726,810.00	1,625.32	1,618.55	1
MW-K4	828,994.00	26,728,410.00	1,586.80	1,585.95	1
MW-K5	829,617.00	26,730,252.00	1,567.69	1,553.05	1
MW-R	825,423.00	26,725,016.00	1,656.09	1,641.90	1
MW-S	826,941.00	26,730,853.00	1,582.40	1,576.20	1
MW-T	826,644.00	26,732,347.00	1,576.36	1,562.20	1
MW-U	826,312.00	26,733,219.00	1,574.66	1,563.50	2
MW-V	825,243.00	26,733,189.00	1,579.38	1,575.20	1
MW-X	817,139.00	26,718,995.00	1,810.05	1,795.20	1
NX-17	823,645.90	26,727,961.68	1,625.67	1,624.30	1
NY-15	823,414.10	26,727,670.20	1,629.80	1,626.90	1
OX-16	824,203.08	26,727,965.13	1,619.30	1,619.90	1
OY-8	824,123.60	26,728,244.00	1,618.70	1,613.60	1
PC-101R	828,711.72	26,728,107.74	1,588.43	1,583.12	1
PC-103	829,110.87	26,730,205.73	1,575.46	1,578.02	1
PC-107	827,136.50	26,729,287.58	1,607.18	1,604.49	1
PC-108	828,526.96	26,731,913.05	1,572.56	1,558.09	1
PC-110	826,778.31	26,731,928.11	1,578.80	1,570.18	1
PC-123	829,485.04	26,727,358.44	1,603.82	1,599.20	1
PC-124	830,132.95	26,726,741.58	1,610.86	1,608.50	1
PC-125	829,925.95	26,726,739.82	1,612.17	1,606.21	1
PC-126	829,724.72	26,726,737.84	1,612.62	1,607.75	1
PC-127	829,316.65	26,726,735.62	1,614.28	1,607.92	1
PC-128	828,953.97	26,726,732.39	1,615.00	1,608.82	1
PC-129	828,747.28	26,726,730.81	1,615.37	1,609.06	1
PC-130	828,538.19	26,726,729.31	1,613.92	1,601.20	1
PC-131	828,123.28	26,726,725.41	1,622.37	1,609.48	1
PC-132	827,913.94	26,726,723.10	1,624.92	1,610.28	1
PC-134A	828,775.80	26,728,143.15	1,589.04	1,554.14	1
PC-135A	828,767.49	26,728,143.03	1,588.86	1,578.07	2
PC-136	829,517.89	26,728,191.37	1,585.00	1,587.76	1
PC-142	828,436.04	26,728,106.76	1,591.62	1,590.44	1
PC-143	828,698.71	26,728,238.64	1,589.01	1,572.05	1
PC-144	828,903.75	26,728,223.86	1,587.82	1,584.23	1
PC-148	829,249.33	26,728,124.42	1,589.55	1,583.29	1
PC-149	829,117.97	26,728,122.90	1,589.04	1,584.43	1
PC-150	828,915.29	26,728,104.18	1,588.72	1,588.86	1
PC-18	828,636.25	26,728,079.97	1,589.52	1,587.15	1
PC-2	830,443.45	26,730,209.58	1,568.08	1,569.59	1
PC-21A	829,269.53	26,721,332.72	1,692.34	1,698.20	1
PC-24	829,524.18	26,726,729.82	1,613.26	1,611.45	1
PC-28	828,530.65	26,725,375.67	1,639.17	1,636.42	1
PC-31	826,781.65	26,725,195.83	1,646.89	1,626.13	1
PC-37	826,612.10	26,722,172.24	1,677.90	1,677.34	1

TABLE A-1: GROUNDWATER ELEVATIONS - SECOND QUARTER 2014
Nevada Environmental Response Trust Site
Henderson, Nevada

Observation Well Name	Easting	Northing	Target (ft amsl)	Mid-Screen Elevation (ft amsl)	Group
PC-4	831,171.80	26,730,353.42	1,564.78	1,566.93	1
PC-50	828,326.94	26,726,722.30	1,620.98	1,606.69	1
PC-53	829,941.58	26,730,225.29	1,566.88	1,570.39	1
PC-54	828,296.34	26,722,067.79	1,681.05	1,682.40	1
PC-55	828,530.49	26,728,056.66	1,590.57	1,583.39	1
PC-56	830,645.29	26,732,289.43	1,555.10	1,539.19	1
PC-58	831,123.78	26,732,118.20	1,554.30	1,547.94	1
PC-59	830,150.30	26,732,452.69	1,555.91	1,548.54	1
PC-60	830,405.14	26,732,358.75	1,555.49	1,546.80	1
PC-62	829,764.28	26,732,733.52	1,556.40	1,545.85	1
PC-64	827,916.52	26,723,702.44	1,664.80	1,664.01	1
PC-65	828,386.90	26,723,682.74	1,664.92	1,664.67	1
PC-66	828,779.40	26,723,966.95	1,660.05	1,657.15	1
PC-67	829,207.80	26,723,846.87	1,659.85	1,651.08	1
PC-68	829,616.96	26,732,906.82	1,557.06	1,535.26	1
PC-71	826,805.90	26,722,687.72	1,671.78	1,675.21	1
PC-72	826,604.72	26,722,688.82	1,669.83	1,671.89	1
PC-73	826,404.90	26,722,694.93	1,668.71	1,665.06	1
PC-74	829,203.52	26,734,003.52	1,553.52	1,520.04	1
PC-76	829,183.79	26,734,006.74	1,553.27	1,547.01	1
PC-77	829,031.63	26,733,568.07	1,559.14	1,532.13	1
PC-80	829,823.82	26,733,250.46	1,555.25	1,539.99	1
PC-82	830,316.93	26,733,194.96	1,552.01	1,507.40	1
PC-86	830,826.99	26,733,185.76	1,549.09	1,531.58	1
PC-88	831,259.41	26,733,178.42	1,545.12	1,505.91	1
PC-92	831,749.30	26,733,109.85	1,540.71	1,535.62	1
PC-96	830,896.56	26,733,450.83	1,546.34	1,518.69	1
PC-97	831,565.69	26,733,441.54	1,543.89	1,520.78	1
PMW-4	826,635.40	26,733,437.00	1,570.90	1,553.20	2
PMW-5	826,814.80	26,733,442.70	1,570.50	1,547.30	1
PMW-6	826,821.60	26,733,562.00	1,570.32	1,548.20	2
PMW-7	826,962.14	26,733,788.63	1,569.02	1,549.57	2
PMW-8	827,253.81	26,733,988.97	1,567.36	1,545.21	1
POD2-R	831,955.50	26,724,825.40	1,609.69	1,635.50	1
POD8	833,586.10	26,724,789.80	1,620.61	1,633.66	1
PX-40	824,778.75	26,727,968.46	1,614.59	1,590.60	1
PY-14	825,017.12	26,727,951.78	1,614.09	1,618.40	1
RIT-06	827,297.23	26,733,433.85	1,568.88	1,543.14	2
RIT-10	827,280.22	26,733,679.40	1,568.35	1,543.76	2
SB-1-8	824,928.20	26,731,968.90	1,587.56	1,592.20	1
SB-3-13	824,433.70	26,731,978.50	1,598.89	1,594.70	1
SBMW-4-4	823,397.50	26,732,849.20	1,606.66	1,600.10	1
SWMW-1	829,406.85	26,720,205.91	1,718.19	1,715.50	1
SWMW-1AR	829,418.38	26,720,233.33	1,708.86	1,706.50	1
SWMW-2	829,950.50	26,719,951.07	1,726.88	1,714.50	1
SWMW-2A	829,956.56	26,719,968.18	1,713.17	1,710.00	2
SWMW-3	830,480.18	26,719,666.79	1,730.61	1,723.00	1
SWMW-3A	830,500.96	26,719,711.08	1,720.55	1,718.50	1

TABLE A-1: GROUNDWATER ELEVATIONS - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Observation Well Name	Easting	Northing	Target (ft amsl)	Mid-Screen Elevation (ft amsl)	Group
TIMETMW-1	830,090.23	26,718,339.19	1,756.31	1,756.70	1
TIMETMW-3R	829,483.25	26,716,571.73	1,788.06	1,787.10	1
TIMETMW-4	830,973.92	26,718,582.87	1,750.25	1,750.10	1
TIMETMW-5	830,385.81	26,718,063.61	1,762.03	1,762.80	1
TIMETMW-6R	829,221.18	26,717,836.95	1,768.44	1,763.33	1
TIMETMW-7	829,216.55	26,720,323.95	1,706.85	1,707.15	1
TIMETMW-8	829,869.45	26,720,009.86	1,714.15	1,714.52	1
TIMETMW-9	830,797.51	26,719,487.20	1,727.42	1,723.32	1
TMMW-101	829,462.76	26,715,285.26	1,809.94	1,795.60	1
TMMW-102	830,371.18	26,715,433.08	1,818.95	1,813.20	1
TMMW-103	831,325.82	26,715,583.05	1,817.31	1,808.20	1
TMMW-104	832,104.88	26,715,722.71	1,816.19	1,811.70	1
TMPZ-112	831,559.74	26,718,652.39	1,747.50	1,748.94	1
TR-10	827,562.53	26,715,739.77	1,792.43	1,761.72	2
TR-11	825,422.57	26,721,918.29	1,732.64	1,494.80	2
TR-12	825,286.37	26,723,271.82	1,695.71	1,411.44	1
TR-2	826,156.85	26,719,954.57	1,726.80	1,589.95	1
TR-3	826,342.89	26,718,941.61	1,772.84	1,535.58	1
TR-4	826,342.53	26,718,951.58	1,736.74	1,635.54	2
TR-5	826,595.86	26,717,592.13	1,800.27	1,561.45	1
TR-7	826,724.99	26,716,525.47	1,818.63	1,551.56	1
TR-9	827,560.22	26,715,752.71	1,818.48	1,611.75	1
TWA-180	823,930.80	26,725,621.80	1,655.07	1,480.60	2
TWA-20	823,910.40	26,725,603.50	1,650.77	1,645.90	1
TWA-50	823,921.80	26,725,613.40	1,649.41	1,615.20	2
TWB-140	825,090.20	26,726,488.90	1,639.93	1,504.90	1
TWB-21	825,054.30	26,726,461.00	1,641.69	1,628.60	2
TWB-36	825,066.10	26,726,470.20	1,641.35	1,613.70	1
TWBX-21	825,214.90	26,726,338.40	1,642.41	1,630.40	1
TWBY-21	824,976.90	26,726,538.30	1,641.33	1,629.60	2
TWBY-36	824,987.70	26,726,539.50	1,640.76	1,614.80	1
TWC-15	825,243.90	26,726,761.20	1,638.23	1,630.00	1
TWC-35	825,269.90	26,726,726.10	1,638.20	1,610.30	2
TWC-48	825,263.10	26,726,714.00	1,638.18	1,592.50	1
TWD1-17	824,527.20	26,725,647.10	1,649.77	1,642.10	1
TWD4-15	824,560.30	26,725,671.20	1,649.70	1,643.70	1
TWE-107	826,427.80	26,727,636.60	1,624.94	1,517.00	2
TWE-15	826,426.20	26,727,676.60	1,624.38	1,616.90	2
TWE-18	826,426.70	26,727,666.40	1,624.44	1,610.70	1
TWE-33	826,427.00	26,727,656.30	1,624.74	1,594.20	2
TWE-51	826,427.00	26,727,646.50	1,624.78	1,577.70	2
TWH-14	825,097.20	26,727,472.80	1,629.51	1,624.70	1
TWI	825,501.20	26,726,290.60	1,642.24	1,639.30	1
UD-2	826,218.40	26,733,561.40	1,572.53	1,571.20	1
UWO-16	826,575.50	26,733,241.60	1,571.98	1,555.90	2
UXO-16	826,778.31	26,733,263.60	1,571.00	1,553.50	2
UYO-16	827,047.00	26,733,277.70	1,570.50	1,551.60	2
UZO-17	827,323.40	26,733,274.00	1,569.89	1,551.50	1

TABLE A-1: GROUNDWATER ELEVATIONS - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Observation Well Name	Easting	Northing	Target (ft amsl)	Mid-Screen Elevation (ft amsl)	Group
WMW6.15S	832,119.93	26,734,098.81	1,534.45	1,530.39	2
WMW6.55S	830,218.83	26,734,351.07	1,543.23	1,526.46	2
WMW6.9S	828,429.53	26,734,540.12	1,558.67	1,538.22	2
W-S	824,421.01	26,722,094.11	1,693.94	1,680.05	2
WS1-14	821,616.20	26,722,663.10	1,704.20	1,694.00	1
WS2-15	822,624.20	26,722,682.80	1,697.81	1,686.90	1
WS4-11	823,505.99	26,722,616.08	1,695.14	1,690.18	1
WS5-10	820,784.55	26,722,650.42	1,713.01	1,704.53	2
WS5-40	820,799.59	26,722,650.60	1,712.92	1,679.23	2
WS5-80	820,814.63	26,722,650.92	1,714.91	1,633.99	1
ZX-11	819,494.20	26,722,564.50	1,729.75	1,717.20	1
ZX-45	819,480.50	26,722,564.80	1,724.67	1,685.90	2
ZY-11	818,099.90	26,722,535.50	1,740.40	1,732.00	1

Notes:

ft amsl = feet above mean sea level

Group 1: Accurate information about well location, well screen, and measured groundwater levels.

Group 2: Additional observation wells data for second quarter 2012 (well information may not be accurate or the measurements are not for second quarter 2014)

Easting and northing location data and mid screen elevations are compiled from All Well Database (McGinley 2012).

APPENDIX A2

VERTICAL HEAD GRADIENTS (Second Quarter 2014)

TABLE A-2: VERTICAL HEAD GRADIENTS - SECOND QUARTER 2014

Nevada Environmental Response Trust Site

Henderson, Nevada

Observation Well Name	Screened Interval	Water Elevation	Vertical Gradient
IWF Vertical Gradients			
M-135	UMCf (Shallow WBZ)	1718.96	--
M-134	UMCf (Shallow WBZ)	1719.68	0.023
M-136	UMCf (Shallow WBZ)	1723.54	0.09
M-161	UMCf (Middle WBZ)	1729.50	0.15
M-161D[1]	UMCf (Middle WBZ)	1733.98	0.16
M-71	Qal/UMCf	1712.02	--
M-164	UMCf (Shallow WBZ)	1713.89	0.054
M-163	UMCf (Shallow WBZ)	1721.47	0.17
M-162	UMCf (Middle WBZ)	1726.21	0.19
M-162D[1]	UMCf (Middle WBZ)	1736.63	0.24
M-74	Qal/UMCf	1716.76	--
M-133	UMCf (Shallow WBZ)	1716.90	0.0033
M-132	UMCf (Shallow WBZ)	1718.30	0.025
M-165	UMCf (Middle WBZ)	1721.69	0.054
AWF Vertical Head Gradients			
PC-135A	Qal	1588.86	--
PC-134A	UMCf (Middle WBZ)	1589.04	0.0075
PC-134D[1]	UMCf (Middle WBZ)	1591.39	0.048
PC-136	Qal	1585.00	--
PC-137	UMCf (Middle WBZ)	1583.36	-0.044
PC-137D[1]	UMCf (Middle WBZ)	1587.03	0.019
OSSM Vertical Head Gradients[2]			
B-01	Shallow	1767.19	--
DPT-01	Middle	1769.82	0.037
AA-MW-25	Shallow	1747.42	--
MC-MW-10	Middle	1747.90	0.01
MW-03	Shallow	1781.50	--
CP-01	Middle	1794.93	0.2
MC-09R	Shallow	1684.94	--
MC-MW-29	Middle	1685.32	0.01
AA-BW-09A	Shallow	1716.23	--
DMC-MW-28	Deep	1762.14	0.2
Other On-site Areas			
M-5A	UMCf (Shallow WBZ)	1714.04	--
TR-2	UMCf (Middle WBZ)	1726.80	0.11
TR-1	UMCf (Middle WBZ)	1761.64	0.19
M-148A	UMCf (Shallow WBZ)	1753.90	--
M-186	UMCf (Middle WBZ)	1755.35	0.022
M-186D[1]	UMCf (Middle WBZ)	1760.34	0.06
M-38[3]	UMCf (Shallow WBZ)	1728.89	--
M-150	UMCf (Middle WBZ)	1736.45	0.069
M-154	UMCf (Middle WBZ)	1747.73	0.12

[1] Well was installed as part of NERT Site Remedial Investigation (RI) in first quarter 2015. Groundwater elevation and vertical gradient shown are based on first quarter 2015 data.

[2] Vertical head differences were presented as part of 2014 Comprehensive Data Evaluation Report for the OSSM site (Hargis and Associates 2014).

[3] M-38 is not co-located with M-150 and M-154, but is located approximately 200 feet to the west.

APPENDIX B

CALIBRATION TARGET RESIDUALS

APPENDIX B: CALIBRATION RESIDUALS FOR GROUNDWATER MODEL TARGETS

Nevada Environmental Response Trust Site

Henderson, Nevada

Well Name	X	Y	Row	Column	Layer	Observed (ft amsl)	Computed (ft amsl)	Residual (ft)
AA-01	830921.12	26720238.47	339	244	1	1709.69	1710.51	-0.82
AA-08	827756.55	26733208.24	129	181	1	1567.95	1568.89	-0.94
AA-09	831041.59	26723441.40	275	246	1	1657.52	1656.14	1.38
AA-10	825935.16	26730040.80	161	144	1	1595.11	1607.44	-12.33
AA-11	830672.66	26725458.78	235	239	1	1629.31	1635.55	-6.24
AA-20	831811.84	26728007.71	184	262	1	1597.03	1610.21	-13.18
AA-21	826148.08	26734078.78	112	149	1	1573.30	1574.74	-1.44
AA-27	832471.34	26719301.66	358	275	1	1722.72	1728.32	-5.60
AA-BW-03A	825973.66	26720593.46	332	145	2	1702.42	1707.62	-5.20
AA-BW-04A	825492.25	26721142.81	321	135	1	1693.16	1695.74	-2.58
AA-BW-05A	825065.41	26721183.83	320	127	1	1698.19	1696.76	1.43
AA-BW-06A	824476.16	26721238.26	319	115	1	1699.32	1700.17	-0.85
AA-BW-08A	825332.70	26719492.77	354	132	1	1711.95	1722.61	-10.66
AA-BW-09A	825703.31	26719455.90	355	140	1	1716.32	1722.62	-6.30
AA-BW-12A	824440.21	26718772.36	364	114	2	1728.69	1739.15	-10.46
AA-MW-05	824351.37	26715530.83	380	113	1	1797.03	1795.36	1.67
AA-MW-07	826126.54	26719344.40	357	148	4	1726.51	1732.00	-5.49
AA-MW-13R	825265.78	26717045.47	372	131	1	1770.43	1775.04	-4.61
AA-MW-25	825508.33	26717917.91	368	136	1	1747.43	1751.78	-4.35
AA-UW1	831427.20	26719624.99	352	254	2	1723.67	1724.96	-1.29
AAX-15	823068.13	26728783.01	168	96	2	1627.18	1636.78	-9.60
ACX-16	823946.00	26724229.00	260	105	2	1670.34	1669.62	0.72
ACY-15	821545.80	26723985.40	264	89	2	1690.90	1689.75	1.15
ADY-36	821333.30	26719305.80	358	87	4	1736.41	1749.66	-13.25
ADYX-165	821116.31	26719273.57	359	86	7	1757.77	1762.33	-4.56
AEX-35	821720.40	26718438.60	365	89	3	1744.78	1757.84	-13.06
AFX-30	821985.53	26717595.85	369	91	2	1763.97	1771.79	-7.82
AGX-230	822775.64	26719965.45	345	95	7	1771.12	1758.92	12.20
AGX-50	822804.72	26719991.41	344	95	3	1712.66	1723.33	-10.67
AK-204	821851.29	26721204.59	320	90	7	1755.13	1750.48	4.65
AK-25	821872.05	26721155.18	321	90	1	1711.20	1706.53	4.67
AMOW-3-165	821100.92	26718862.91	363	86	6	1734.58	1761.01	-26.43
AMX-166	820953.20	26720201.00	340	86	7	1768.00	1761.05	6.95
AMX-40	820936.20	26720195.70	340	85	4	1728.34	1741.67	-13.33
APX-1-45	825255.70	26729255.10	165	131	4	1607.60	1625.37	-17.77
APX-2-45	825650.90	26729263.00	165	139	4	1603.13	1627.16	-24.03
APX-2-P1O1	825601.60	26729261.20	165	138	2	1603.18	1612.79	-9.61
APX-4-20	826451.20	26729275.10	165	155	3	1607.08	1619.25	-12.17
APX-5-16	827009.30	26729285.00	165	166	3	1605.88	1613.32	-7.44
APX-5-7	826987.80	26729285.20	165	165	2	1606.14	1610.00	-3.86
APX-7-14	825193.10	26729254.30	165	129	1	1606.69	1617.17	-10.48
ARP-1	828593.16	26728365.51	177	197	1	1588.78	1592.68	-3.90
ARP-2A	828722.80	26728404.34	176	200	1	1588.15	1591.98	-3.83
ARP-3A	828856.20	26728402.86	176	203	1	1587.24	1591.52	-4.28
ARP-4A	829167.89	26728411.81	176	209	1	1586.12	1589.03	-2.91
ARP-5A	829375.01	26728458.43	175	213	1	1583.72	1587.33	-3.61

APPENDIX B: CALIBRATION RESIDUALS FOR GROUNDWATER MODEL TARGETS

Nevada Environmental Response Trust Site

Henderson, Nevada

Well Name	X	Y	Row	Column	Layer	Observed (ft amsl)	Computed (ft amsl)	Residual (ft)
ARP-6B	829520.52	26728499.92	174	216	1	1583.69	1586.46	-2.77
ARP-7	829668.22	26728501.08	174	219	1	1583.32	1586.20	-2.88
B01	825676.63	26717341.36	371	139	1	1767.09	1768.09	-1.00
BHE1-10	828193.10	26723364.50	277	189	2	1669.76	1666.61	3.15
BRW-R1	831558.84	26716928.10	373	257	1	1797.80	1775.68	22.12
CLD4-R	829034.28	26718854.29	363	206	1	1744.30	1730.99	13.31
CP-1	825287.67	26716403.47	375	131	5	1795.21	1784.20	11.01
CMT-101	829635.17	26719980.31	344	218	2	1722.95	1724.67	-1.72
CSMMW-1	829601.30	26717854.87	368	218	1	1768.58	1759.98	8.60
DBMW-1	830462.90	26728009.64	184	235	1	1590.21	1601.57	-11.36
DM-1	832745.01	26722024.65	304	281	1	1679.79	1687.26	-7.47
DMC-MW-27R	825211.51	26716407.16	375	130	7	1819.58	1792.42	27.16
DMC-MW-28	825775.48	26719450.04	355	141	7	1763.03	1743.55	19.48
DX-24	819502.00	26717126.30	372	78	1	1809.90	1797.34	12.56
DX-30	819846.50	26717128.90	372	80	1	1804.15	1795.77	8.38
DY-26	820125.60	26718551.10	365	81	4	1778.85	1768.94	9.91
DZ-15	818150.03	26717687.40	369	72	1	1818.68	1807.84	10.84
EC-10	823570.10	26717752.81	369	99	2	1749.90	1758.05	-8.15
EC-14	824258.28	26718049.25	367	111	5	1753.72	1758.40	-4.68
F3-27	819578.43	26718923.53	363	79	3	1783.56	1767.62	15.94
FX-25	820249.00	26721316.00	318	82	3	1727.55	1733.02	-5.47
H-10A	825185.53	26722638.83	291	129	1	1672.76	1678.37	-5.61
H-18A	824126.38	26721612.61	312	108	1	1698.06	1698.29	-0.23
H-19	824407.06	26721202.71	320	114	1	1699.62	1700.82	-1.20
H-21R	824914.54	26721148.51	321	124	1	1698.83	1698.13	0.70
H-28	825871.32	26721021.82	324	143	2	1693.82	1699.36	-5.54
H-43	824660.68	26721179.60	320	119	1	1699.39	1699.63	-0.24
H-49A	826110.29	26723485.40	274	148	1	1661.69	1665.31	-3.62
H-55	823645.49	26720010.20	344	99	1	1710.90	1714.85	-3.95
H-58A	825642.55	26723331.88	277	138	1	1664.49	1666.94	-2.45
J2D1-R2	829885.78	26719274.00	359	223	1	1734.38	1730.23	4.15
J2D2-R2	830098.48	26719406.73	356	228	1	1732.44	1729.94	2.50
J2D4	829582.57	26719171.05	361	217	1	1736.97	1730.14	6.83
J2U1	830498.14	26718499.09	365	236	1	1749.17	1741.07	8.10
J2U2	830063.17	26718456.02	365	227	1	1753.27	1741.14	12.13
JX-11	825170.27	26725018.41	244	129	1	1657.11	1656.95	0.16
KX-18	823949.00	26726751.40	209	105	1	1634.61	1641.99	-7.38
KY-23	824268.80	26727268.40	199	111	1	1625.36	1637.73	-12.37
M-10	828536.18	26716636.63	374	196	1	1786.50	1784.22	2.28
M-11	828617.03	26717608.56	369	198	1	1772.14	1764.84	7.30
M-115	827243.65	26718612.90	364	171	1	1750.25	1737.86	12.39
M-120	828387.79	26715162.90	382	193	1	1797.43	1807.46	-10.03
M-121	827694.57	26715011.24	382	180	1	1797.91	1808.56	-10.65
M-123	826516.40	26718416.92	365	156	1	1744.26	1743.73	0.53
M-124	827092.23	26718226.14	366	167	1	1751.09	1746.99	4.10
M-125	826531.82	26718993.90	362	156	2	1733.89	1737.47	-3.58

APPENDIX B: CALIBRATION RESIDUALS FOR GROUNDWATER MODEL TARGETS

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Henderson, Nevada

Well Name	X	Y	Row	Column	Layer	Observed (ft amsl)	Computed (ft amsl)	Residual (ft)
M-126	826569.37	26719505.57	354	157	2	1724.70	1730.97	-6.27
M-128	827171.63	26718501.70	365	169	1	1747.32	1740.48	6.84
M-129	828806.43	26720079.64	342	202	1	1718.04	1718.84	-0.80
M-12A	828178.52	26717575.29	370	189	1	1770.60	1764.51	6.09
M-13	827806.03	26717477.66	370	182	1	1769.45	1764.92	4.53
M-131	827158.08	26719770.57	349	169	2	1721.62	1725.75	-4.13
M-133	828698.61	26720067.29	343	200	4	1716.90	1718.38	-1.48
M-135	827154.48	26719890.17	346	169	1	1718.96	1722.83	-3.87
M-137	827666.01	26716034.02	377	179	1	1790.33	1792.98	-2.65
M-141	828465.43	26718195.34	366	195	1	1754.92	1748.79	6.13
M-142	827191.75	26718713.09	364	169	1	1743.39	1736.46	6.93
M-145	829205.27	26717451.15	370	210	1	1774.50	1769.14	5.36
M-146	827774.94	26716991.91	372	181	1	1777.71	1774.16	3.55
M-148A	829030.35	26718357.14	366	206	1	1753.90	1743.34	10.56
M-14A	827045.36	26719382.67	356	167	1	1729.14	1731.29	-2.15
M-150	828058.96	26719569.84	353	187	6	1736.71	1732.75	3.96
M-152	826973.49	26722690.63	290	165	6	1672.19	1690.43	-18.24
M-19	828846.19	26719350.03	357	203	1	1732.04	1727.49	4.55
M-21	827792.86	26718359.30	366	181	1	1751.30	1742.79	8.51
M-22A	828270.11	26719531.63	353	191	1	1729.38	1725.64	3.74
M-23	827373.96	26721391.25	316	173	1	1686.83	1684.63	2.20
M-25	827677.80	26719503.57	354	179	1	1727.86	1727.51	0.35
M-2A	827984.75	26718769.56	364	185	1	1739.69	1731.54	8.15
M-31A	828368.37	26718289.58	366	193	1	1751.03	1745.62	5.41
M-35	828509.37	26718840.13	363	196	1	1740.57	1730.74	9.83
M-37	827414.22	26719422.01	356	174	1	1730.13	1728.54	1.59
M-38	827877.66	26719523.27	354	183	1	1728.89	1726.82	2.07
M-44	827005.61	26722699.15	290	166	1	1674.18	1675.12	-0.94
M-48A	828294.38	26721339.07	317	192	1	1688.34	1688.29	0.05
M-52	828394.48	26717985.39	367	194	1	1761.25	1755.00	6.25
M-57A	826993.31	26719716.74	350	165	2	1724.33	1727.13	-2.80
M-64	827580.25	26719726.63	350	177	1	1723.50	1725.95	-2.45
M-65	827899.72	26719746.36	349	184	1	1724.61	1724.61	0.00
M-66	828183.64	26719787.47	348	189	1	1723.48	1722.77	0.71
M-67	828508.52	26719829.72	347	196	1	1724.00	1721.73	2.27
M-68	828751.00	26719864.47	347	201	1	1724.08	1722.40	1.68
M-69	827265.73	26719885.28	346	171	1	1716.18	1720.59	-4.41
M-70	827567.35	26719904.69	346	177	1	1713.88	1715.75	-1.87
M-71	827859.71	26719943.63	345	183	1	1712.02	1714.24	-2.22
M-72	828172.13	26719977.14	345	189	1	1714.62	1714.10	0.52
M-73	828427.82	26720018.47	344	194	1	1712.46	1715.02	-2.56
M-75	827718.82	26718702.64	364	180	1	1741.83	1732.27	9.56
M-76	827550.73	26718659.92	364	177	1	1746.03	1733.89	12.14
M-77	828932.32	26718046.00	367	204	1	1762.46	1753.98	8.48
M-79	827382.10	26720048.92	343	173	1	1711.94	1717.35	-5.41
M-7B	826106.50	26720979.66	324	148	3	1696.64	1703.05	-6.41

APPENDIX B: CALIBRATION RESIDUALS FOR GROUNDWATER MODEL TARGETS

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Henderson, Nevada

Well Name	X	Y	Row	Column	Layer	Observed (ft amsl)	Computed (ft amsl)	Residual (ft)
M-83	827584.70	26720159.92	341	177	1	1711.14	1713.54	-2.40
M-92	827138.09	26717531.94	370	168	1	1764.28	1761.48	2.80
M-93	827143.44	26717685.92	369	168	1	1761.96	1758.66	3.30
M-95	827426.74	26722701.69	290	174	1	1677.17	1676.78	0.39
M-97	827492.47	26717795.18	368	175	1	1760.93	1756.94	3.99
M-99	827309.69	26720851.72	327	172	1	1697.50	1702.01	-4.51
MC102	825360.37	26721725.67	310	133	1	1685.30	1687.35	-2.05
MC103	825009.31	26721975.65	305	126	2	1690.69	1687.36	3.33
MC114	825835.01	26722158.53	301	142	1	1678.65	1680.67	-2.02
MC-127	825805.48	26721281.42	318	142	1	1688.09	1691.45	-3.36
MC33	824104.02	26721968.11	305	108	1	1696.47	1695.18	1.29
MC49	825182.72	26722360.49	297	129	1	1680.47	1683.08	-2.61
MC61	825702.25	26722433.39	295	140	1	1673.34	1677.44	-4.10
MC65	826119.27	26722421.15	296	148	1	1671.56	1674.13	-2.57
MC81	824637.59	26721548.31	313	118	1	1697.01	1696.06	0.95
MC84	824413.48	26722287.11	298	114	1	1692.68	1690.67	2.01
MCF-BW-10A	823621.72	26718620.39	364	99	4	1736.23	1746.41	-10.18
MW-01	825536.01	26715187.41	381	136	1	1797.58	1799.21	-1.63
MW-02	825639.84	26716364.20	376	138	1	1781.85	1785.61	-3.76
MW-03	825354.12	26716390.46	375	133	1	1781.47	1785.60	-4.13
MW-04	825073.90	26716415.06	375	127	1	1782.03	1785.63	-3.60
MW-08	825564.56	26717925.04	368	137	7	1808.15	1768.17	39.98
MW-16	826447.64	26719904.41	346	155	2	1718.68	1724.73	-6.05
MW-AA	822059.00	26729177.00	165	91	2	1639.48	1641.85	-2.37
MW-AB	822535.00	26725941.00	225	93	1	1663.30	1658.54	4.76
MW-AC	822686.00	26723991.00	264	94	1	1686.48	1677.63	8.85
MW-AHX	823443.00	26721020.30	324	98	2	1702.17	1706.54	-4.37
MW-AJ	826455.00	26726030.00	223	155	2	1641.90	1647.18	-5.28
MW-AX-72	818280.30	26714977.50	383	72	1	1848.16	1816.87	31.29
MW-C	819813.00	26715809.70	378	80	1	1821.42	1803.87	17.55
MW-D2D	819110.50	26717312.60	371	76	4	1814.21	1791.65	22.56
MW-D2S	819110.50	26717312.60	371	76	1	1813.74	1799.13	14.61
MW-E	815276.80	26715804.80	378	57	3	1840.30	1826.95	13.35
MW-F2	820057.00	26719757.00	349	81	2	1752.98	1751.43	1.55
MW-I	817038.00	26717185.00	371	66	1	1843.10	1813.38	29.72
MW-K	823523.00	26725991.00	224	98	1	1651.08	1650.99	0.09
MW-K1	827777.00	26726810.00	208	181	1	1625.32	1624.01	1.31
MW-K4	828994.00	26728410.00	176	206	1	1586.80	1590.60	-3.80
MW-K5	829617.00	26730252.00	160	218	1	1567.69	1577.72	-10.03
MW-R	825423.00	26725016.00	244	134	2	1656.09	1658.79	-2.70
MW-S	826941.00	26730853.00	157	164	1	1582.40	1597.11	-14.71
MW-T	826644.00	26732347.00	146	159	2	1576.36	1585.81	-9.45
MW-V	825243.00	26733189.00	129	130	3	1579.38	1591.19	-11.81
MW-X	817139.00	26718995.00	362	66	3	1810.05	1791.30	18.75
NX-17	823645.90	26727961.68	185	99	1	1625.67	1634.42	-8.75
NY-15	823414.10	26727670.20	191	98	1	1629.80	1638.32	-8.52

APPENDIX B: CALIBRATION RESIDUALS FOR GROUNDWATER MODEL TARGETS

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Henderson, Nevada

Well Name	X	Y	Row	Column	Layer	Observed (ft amsl)	Computed (ft amsl)	Residual (ft)
OX-16	824203.08	26727965.13	185	110	1	1619.30	1628.97	-9.67
OY-8	824123.60	26728244.00	179	108	1	1618.70	1626.68	-7.98
PC-101R	828711.72	26728107.74	182	200	1	1588.43	1593.97	-5.54
PC-103	829110.87	26730205.73	160	208	1	1575.46	1580.12	-4.66
PC-107	827136.50	26729287.58	165	168	1	1607.18	1608.66	-1.48
PC-108	828526.96	26731913.05	152	196	1	1572.56	1572.74	-0.18
PC-110	826778.31	26731928.11	152	161	1	1578.80	1588.02	-9.22
PC-123	829485.04	26727358.44	197	215	1	1603.82	1604.15	-0.33
PC-124	830132.95	26726741.58	209	228	1	1610.86	1615.73	-4.87
PC-125	829925.95	26726739.82	209	224	1	1612.17	1614.29	-2.12
PC-126	829724.72	26726737.84	209	220	1	1612.62	1613.21	-0.59
PC-127	829316.65	26726735.62	209	212	1	1614.28	1612.85	1.43
PC-128	828953.97	26726732.39	209	205	1	1615.00	1615.05	-0.05
PC-129	828747.28	26726730.81	209	201	1	1615.37	1614.91	0.46
PC-130	828538.19	26726729.31	209	196	1	1613.92	1615.59	-1.67
PC-131	828123.28	26726725.41	210	188	1	1622.37	1620.73	1.64
PC-132	827913.94	26726723.10	210	184	1	1624.92	1623.13	1.79
PC-134A	828775.80	26728143.15	181	201	3	1589.04	1602.16	-13.12
PC-136	829517.89	26728191.37	180	216	1	1585.00	1587.60	-2.60
PC-142	828436.04	26728106.76	182	194	1	1591.62	1595.93	-4.31
PC-143	828698.71	26728238.64	179	200	1	1589.01	1593.30	-4.29
PC-144	828903.75	26728223.86	180	204	1	1587.82	1592.69	-4.87
PC-148	829249.33	26728124.42	182	211	2	1589.55	1597.33	-7.78
PC-149	829117.97	26728122.90	182	208	2	1589.04	1598.09	-9.05
PC-150	828915.29	26728104.18	182	204	1	1588.72	1593.12	-4.40
PC-18	828636.25	26728079.97	182	198	1	1589.52	1594.93	-5.41
PC-2	830443.45	26730209.58	160	234	1	1568.08	1577.60	-9.52
PC-21A	829269.53	26721332.72	317	211	1	1692.34	1696.71	-4.37
PC-24	829524.18	26726729.82	209	216	1	1613.26	1613.00	0.26
PC-28	828530.65	26725375.67	237	196	1	1639.17	1633.82	5.35
PC-31	826781.65	26725195.83	240	161	1	1646.89	1648.67	-1.78
PC-37	826612.10	26722172.24	301	158	1	1677.90	1674.72	3.18
PC-4	831171.80	26730353.42	160	249	1	1564.78	1576.72	-11.94
PC-50	828326.94	26726722.30	210	192	1	1620.98	1617.83	3.15
PC-53	829941.58	26730225.29	160	224	1	1566.88	1577.39	-10.51
PC-54	828296.34	26722067.79	303	192	1	1681.05	1683.61	-2.56
PC-55	828530.49	26728056.66	183	196	1	1590.57	1596.06	-5.49
PC-56	830645.29	26732289.43	147	239	1	1555.10	1554.10	1.00
PC-58	831123.78	26732118.20	150	248	1	1554.30	1554.13	0.17
PC-59	830150.30	26732452.69	144	229	1	1555.91	1555.77	0.14
PC-60	830405.14	26732358.75	146	234	1	1555.49	1555.02	0.47
PC-62	829764.28	26732733.52	138	221	1	1556.40	1556.51	-0.11
PC-64	827916.52	26723702.44	270	184	1	1664.80	1661.70	3.10
PC-65	828386.90	26723682.74	270	193	1	1664.92	1659.30	5.62
PC-66	828779.40	26723966.95	265	201	1	1660.05	1651.84	8.21
PC-67	829207.80	26723846.87	267	210	1	1659.85	1651.23	8.62

APPENDIX B: CALIBRATION RESIDUALS FOR GROUNDWATER MODEL TARGETS

Nevada Environmental Response Trust Site

Henderson, Nevada

Well Name	X	Y	Row	Column	Layer	Observed (ft amsl)	Computed (ft amsl)	Residual (ft)
PC-68	829616.96	26732906.82	135	218	1	1557.06	1556.73	0.33
PC-71	826805.90	26722687.72	290	162	1	1671.78	1673.28	-1.50
PC-72	826604.72	26722688.82	290	158	1	1669.83	1671.53	-1.70
PC-73	826404.90	26722694.93	290	154	1	1668.71	1670.62	-1.91
PC-74	829203.52	26734003.52	113	210	1	1553.52	1553.57	-0.05
PC-76	829183.79	26734006.74	113	209	1	1553.27	1553.68	-0.41
PC-77	829031.63	26733568.07	122	206	1	1559.14	1557.09	2.05
PC-80	829823.82	26733250.46	128	222	1	1555.25	1553.15	2.10
PC-82	830316.93	26733194.96	129	232	1	1552.01	1549.02	2.99
PC-86	830826.99	26733185.76	129	242	1	1549.09	1544.27	4.82
PC-88	831259.41	26733178.42	130	251	1	1545.12	1540.64	4.48
PC-92	831749.30	26733109.85	131	261	1	1540.71	1539.81	0.90
PC-96	830896.56	26733450.83	124	244	1	1546.34	1543.04	3.30
PC-97	831565.69	26733441.54	124	257	1	1543.89	1539.30	4.59
PMW-5	826814.80	26733442.70	124	162	1	1570.50	1571.95	-1.45
PMW-8	827253.81	26733988.97	113	171	1	1567.36	1567.90	-0.54
POD2-R	831955.50	26724825.40	248	265	1	1609.69	1644.54	-34.85
POD8	833586.10	26724789.80	248	297	1	1620.61	1647.32	-26.71
PX-40	824778.75	26727968.46	185	121	4	1614.59	1622.80	-8.21
PY-14	825017.12	26727951.78	185	126	1	1614.09	1622.74	-8.65
SB-1-8	824928.20	26731968.90	152	124	1	1587.56	1601.74	-14.18
SB-3-13	824433.70	26731978.50	152	114	2	1598.89	1606.85	-7.96
SBMW-4-4	823397.50	26732849.20	136	98	1	1606.66	1604.29	2.37
SWMW-1	829409.89	26720207.43	340	214	1	1718.19	1722.18	-3.99
SWMW-2	829950.50	26719951.07	345	225	1	1726.88	1725.88	1.00
SWMW-3	830480.18	26719666.79	351	235	1	1730.61	1729.09	1.52
SWMW-3A	830500.96	26719711.08	350	236	1	1720.55	1722.29	-1.74
TIMETMW-1	830090.23	26718339.19	366	227	1	1756.31	1745.86	10.45
TIMETMW-3R	829483.25	26716571.73	375	215	1	1788.06	1785.71	2.35
TIMETMW-4	830973.92	26718582.87	364	245	1	1750.25	1742.23	8.02
TIMETMW-5	830385.81	26718063.61	367	233	1	1762.03	1755.28	6.75
TIMETMW-6R	829221.18	26717836.95	368	210	1	1768.44	1760.06	8.38
TIMETMW-7	829216.55	26720349.79	337	210	1	1706.85	1714.88	-8.03
TIMETMW-8	829864.89	26720055.47	343	223	1	1714.15	1715.21	-1.06
TIMETMW-9	830797.51	26719487.20	354	242	1	1727.42	1724.36	3.06
TMMW-101	829462.76	26715285.26	381	215	1	1809.94	1805.73	4.21
TMMW-102	830371.18	26715433.08	380	233	1	1818.95	1802.79	16.16
TMMW-103	831325.82	26715583.05	379	252	1	1817.31	1799.86	17.45
TMMW-104	832104.88	26715722.71	379	268	1	1816.19	1797.36	18.83
TMPZ-112	831559.74	26718652.39	364	257	1	1747.50	1747.17	0.33
TR-12	825286.37	26723271.82	279	131	7	1695.71	1694.20	1.51
TR-2	826156.85	26719954.57	345	149	6	1726.80	1729.49	-2.69
TR-3	826342.89	26718941.61	363	152	7	1772.84	1749.10	23.74
TR-5	826595.86	26717592.13	369	158	7	1800.27	1768.73	31.54
TR-7	826724.99	26716525.47	375	160	7	1818.63	1783.73	34.90
TR-9	827560.22	26715752.71	379	177	6	1818.48	1792.93	25.55

APPENDIX B: CALIBRATION RESIDUALS FOR GROUNDWATER MODEL TARGETS

Nevada Environmental Response Trust Site

Henderson, Nevada

Well Name	X	Y	Row	Column	Layer	Observed (ft amsl)	Computed (ft amsl)	Residual (ft)
TWA-20	823910.40	26725603.50	232	104	2	1650.77	1656.80	-6.03
TWB-140	825090.20	26726488.90	214	127	6	1639.93	1670.53	-30.60
TWB-36	825066.10	26726470.20	215	127	4	1641.35	1663.29	-21.94
TWBX-21	825214.90	26726338.40	217	130	3	1642.41	1658.91	-16.50
TWBY-36	824987.70	26726539.50	213	125	4	1640.76	1663.38	-22.62
TWC-15	825243.90	26726761.20	209	131	3	1638.23	1658.52	-20.29
TWC-48	825263.10	26726714.00	210	131	5	1638.18	1666.30	-28.12
TWD1-17	824527.20	26725647.10	231	116	2	1649.77	1654.77	-5.00
TWD4-15	824560.30	26725671.20	231	117	2	1649.70	1654.53	-4.83
TWE-18	826426.70	26727666.40	191	154	3	1624.44	1649.38	-24.94
TWH-14	825097.20	26727472.80	195	128	3	1629.51	1650.36	-20.85
TWI	825501.20	26726290.60	218	136	1	1642.24	1647.66	-5.42
UD-2	826218.40	26733561.40	122	150	2	1572.53	1577.65	-5.12
UZO-17	827323.40	26733274.00	128	172	1	1569.89	1570.37	-0.48
WS1-14	821616.20	26722663.10	291	89	2	1704.20	1704.47	-0.27
WS2-15	822624.20	26722682.80	290	94	2	1697.81	1695.94	1.87
WS4-11	823505.99	26722616.08	292	98	1	1695.14	1691.57	3.57
WS5-80	820814.63	26722650.92	291	85	5	1714.91	1716.41	-1.50
ZX-11	819494.20	26722564.50	293	78	1	1729.75	1713.12	16.63
ZY-11	818099.90	26722535.50	293	71	2	1740.40	1735.78	4.62
AA-13	833889.39	26722860.98	287	303	1	1662.15	1677.83	-15.68
AA-18	836690.87	26727656.38	191	359	1	1609.34	1611.17	-1.83
AA-22	833425.59	26731586.01	153	294	1	1553.70	1550.45	3.25
AA-UW2	832819.54	26718117.11	367	282	1	1754.38	1755.61	-1.23
AA-UW4	836517.02	26720029.40	343	356	3	1757.14	1747.73	9.41
AA-UW5	838134.66	26722958.50	285	388	2	1719.85	1716.72	3.13
ADX-112	821160.00	26717441.30	370	87	6	1761.72	1771.69	-9.97
ADY-70	821323.00	26719305.80	358	87	5	1735.95	1753.31	-17.36
ADYX-38	821103.55	26719268.39	359	86	4	1739.71	1751.97	-12.26
AEX-166	821722.10	26718430.50	365	89	7	1752.22	1763.66	-11.44
AFX-195	821975.43	26717633.77	369	91	7	1771.52	1774.61	-3.09
AFX-75	821964.11	26717675.40	369	91	5	1761.71	1771.22	-9.51
AGX-160	822790.37	26719978.45	345	95	6	1732.30	1745.19	-12.89
AGX-90	822797.72	26719984.41	344	95	5	1719.67	1733.30	-13.63
AK-145	821864.56	26721172.30	321	90	6	1736.00	1737.04	-1.04
AK-86	821868.13	26721163.69	321	90	5	1715.85	1725.00	-9.15
AMOW-3-52	821097.77	26718872.31	363	86	4	1745.35	1756.32	-10.97
AMX-98	820944.70	26720198.20	340	86	6	1744.84	1757.47	-12.63
BEC-4	830699.33	26723946.72	265	240	1	1651.96	1652.14	-0.18
BEC-9	833049.52	26727221.50	200	287	3	1597.29	1624.27	-26.98
CSMMW-2	830257.07	26718054.66	367	231	1	1762.59	1755.34	7.25
DBMW-14	838987.26	26727957.62	185	405	3	1636.57	1638.70	-2.13
DBMW-19	831488.74	26731383.23	154	255	1	1548.48	1563.36	-14.88
DBMW-2	830530.28	26728059.44	183	236	1	1593.80	1601.53	-7.73
DBMW-3	831032.81	26728150.18	181	246	2	1596.90	1606.08	-9.18
DBMW-5	833398.98	26729807.56	162	294	2	1584.71	1586.51	-1.80

APPENDIX B: CALIBRATION RESIDUALS FOR GROUNDWATER MODEL TARGETS

Nevada Environmental Response Trust Site

Henderson, Nevada

Well Name	X	Y	Row	Column	Layer	Observed (ft amsl)	Computed (ft amsl)	Residual (ft)
DBMW-8	835406.87	26729027.21	166	334	3	1575.24	1594.68	-19.44
DMC-MW-26	825692.03	26717360.62	371	139	7	1819.51	1776.02	43.49
DPT-01	825680.22	26717349.85	371	139	5	1770.09	1768.34	1.75
DX-161	819845.60	26717159.40	372	80	6	1782.04	1765.22	16.82
DX-270	819846.00	26717118.00	372	80	7	1834.00	1766.29	67.71
DX-75	819846.60	26717139.50	372	80	5	1809.86	1781.87	27.99
DY-106	820116.60	26718551.30	365	81	6	1790.49	1766.24	24.25
DY-169	820135.30	26718550.80	365	81	7	1777.80	1764.58	13.22
DZ-152	818149.68	26717703.43	369	72	6	1816.44	1785.92	30.52
JX-86	825186.08	26725018.66	244	129	5	1655.27	1668.18	-12.91
M-149	828373.09	26718285.82	366	193	4	1752.25	1747.86	4.39
M-153	828385.63	26718288.08	366	193	5	1766.70	1750.22	16.48
M-74	828713.65	26720062.18	343	200	1	1716.76	1717.69	-0.93
MC100	825791.43	26721421.10	316	141	2	1686.61	1692.22	-5.61
MC109	825294.38	26721609.56	312	132	1	1686.00	1689.07	-3.07
MC111	825942.13	26721355.46	317	144	1	1687.66	1691.96	-4.30
MC113	825538.88	26722279.41	298	136	1	1679.63	1680.54	-0.91
MC-120	824999.35	26721888.67	306	126	1	1690.83	1689.71	1.12
MC-125	824944.69	26721928.06	306	125	1	1689.94	1689.41	0.53
MC-128	824642.14	26722133.70	301	118	1	1690.59	1689.35	1.24
MC-138	825712.47	26721394.18	316	140	1	1686.17	1689.07	-2.90
MC41	825520.41	26721583.32	312	136	1	1685.46	1688.27	-2.81
MC48	824952.84	26722431.11	295	125	1	1679.45	1683.88	-4.43
MC50	825534.87	26722076.15	303	136	1	1682.95	1683.21	-0.26
MC51	825647.67	26721900.05	306	139	1	1684.15	1684.72	-0.57
MC53	825942.24	26721920.01	306	144	1	1683.09	1683.77	-0.68
MC58	824989.32	26722230.58	299	125	1	1684.13	1687.27	-3.14
MC87	824735.41	26722276.80	299	120	1	1685.80	1688.79	-2.99
MC89	824948.93	26722120.35	302	125	1	1688.93	1689.58	-0.65
MC92	825467.59	26722035.56	303	135	1	1683.99	1684.14	-0.15
MC94	825912.02	26721595.27	312	144	1	1685.50	1689.32	-3.82
MC95	825642.30	26721800.45	308	138	1	1684.93	1686.21	-1.28
MC98	825696.66	26721567.14	313	140	1	1685.74	1689.22	-3.48
MCF-05	832871.21	26728512.84	174	283	7	1601.51	1621.16	-19.65
MCF-06C	834945.84	26729004.59	166	325	2	1576.94	1592.61	-15.67
MCF-16C	835846.38	26726030.18	223	343	2	1625.37	1641.48	-16.11
MCF-32B	835753.14	26724074.91	263	341	6	1663.59	1684.59	-21.00
MC-MW-10	825523.88	26717919.06	368	136	5	1747.25	1758.29	-11.04
MW-AD	821179.00	26717406.00	370	87	2	1777.81	1783.91	-6.10
MW-U	826312.00	26733219.00	129	152	2	1574.66	1578.83	-4.17
PC-135A	828767.49	26728143.03	181	201	1	1588.86	1593.64	-4.78
PMW-4	826635.40	26733437.00	124	158	1	1570.90	1572.68	-1.78
PMW-6	826821.60	26733562.00	122	162	1	1570.32	1571.61	-1.29
PMW-7	826962.14	26733788.63	117	165	1	1569.02	1570.24	-1.22
RIT-06	827297.23	26733433.85	124	172	1	1568.88	1569.77	-0.89
RIT-10	827280.22	26733679.40	119	171	1	1568.35	1569.05	-0.70

APPENDIX B: CALIBRATION RESIDUALS FOR GROUNDWATER MODEL TARGETS

Nevada Environmental Response Trust Site

Henderson, Nevada

Well Name	X	Y	Row	Column	Layer	Observed (ft amsl)	Computed (ft amsl)	Residual (ft)
TR-10	827562.53	26715739.77	379	177	1	1792.43	1797.84	-5.41
TR-11	825422.57	26721918.29	306	134	7	1732.64	1710.48	22.16
TR-4	826342.53	26718951.58	363	152	6	1736.74	1744.67	-7.93
TWA-180	823930.80	26725621.80	232	104	7	1655.07	1672.39	-17.32
TWA-50	823921.80	26725613.40	232	104	5	1649.41	1666.87	-17.46
TWB-21	825054.30	26726461.00	215	127	3	1641.69	1658.90	-17.21
TWBY-21	824976.90	26726538.30	213	125	3	1641.33	1658.82	-17.49
TWC-35	825269.90	26726726.10	210	131	5	1638.20	1666.33	-28.13
TWE-107	826427.80	26727636.60	191	154	6	1624.94	1670.77	-45.83
TWE-15	826426.20	26727676.60	191	154	2	1624.38	1636.08	-11.70
TWE-33	826427.00	26727656.30	191	154	4	1624.74	1656.91	-32.17
TWE-51	826427.00	26727646.50	191	154	5	1624.78	1661.04	-36.26
UWO-16	826575.50	26733241.60	128	157	1	1571.98	1573.51	-1.53
UXO-16	826778.31	26733263.60	128	161	1	1571.00	1572.60	-1.60
UYO-16	827047.00	26733277.70	128	167	1	1570.50	1571.41	-0.91
WMW6.15S	832119.93	26734098.81	111	268	1	1534.45	1535.17	-0.72
WMW6.55S	830218.83	26734351.07	106	230	1	1543.23	1546.95	-3.72
WMW6.9S	828429.53	26734540.12	102	194	1	1558.67	1557.26	1.41
W-S	824421.01	26722094.11	302	114	1	1693.94	1691.91	2.03
WS5-10	820784.55	26722650.42	291	85	2	1713.01	1709.64	3.37
WS5-40	820799.59	26722650.60	291	85	4	1712.92	1712.12	0.80
ZX-45	819480.50	26722564.80	293	78	4	1724.67	1721.01	3.66

Notes:

ft amsl= feet above mean sea level

ft= feet

APPENDIX C

MODEL FILES
(Provided Electronically)