Technical Data Information Report

RID Number	Transmitter	Transmitter Organization	Receiver	Receiver Organization	Keyword 1
7629.02	Klenke	Nye County Water District	QARC	Nye County	NCWD

Document Date	3/31/2015	General Document Type	QA Program Doc	Keyword 2	Private Wells
Entry Date	7/29/2015	Detail Document Type	Data	Keyword 3	Manual Water

Document Title/Subject
Manual Water Level Measurements in Private Wells December 1, 1999 through November 30, 2008. (Supersedes RID 7629.01)

Data Originator/Preparer
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Data Description
Data package includes Nye County's Regional Groundwater Elevation Database (RGED V6.0_052115.accdb) containing manual water level measurements made in private wells (non-EWDP) through November 2008, field forms, hydrographs (available upon request), and exported data from the database, "Export Pahrump Data 113008.xlsx" and "Export Amargosa Data 113008.xlsx". This RID (7629.02) supersedes RID 7629.01 in order to update well locations based on reprocessed (Differentially Corrected) GPS locations using Trimble® Pathfinder Office (PFO) Program ver. 5.60. Wells on the Nye County Water Level Measurement Program that have been measured continually through time (measured beyond the time period covered by this RID (11/30/08)), are "index" wells and these locations were updated to increase vertical and horizontal accuracies. "Index" well locations are given in NAD83_86, elevation data is given as Geoid-09(Conus), height above Mean Sea Level (MSL), and US Feet. Water level data for these "index" wells are shown in bold in Excel Spreadsheets "Export Pahrump Data 113008.xlsx", and "Export Amargosa Data 113008.xlsx". Water level data for non-index wells (wells not measured past 11/30/08) are shown as un-bolded text in the Excel Spreadsheets. These wells are from older GPS surveys, using a Trimble PRO XRS GPS, and are supplied in NAD83_86, height above Mean Sea Level (MSL), with elevation data believed to be in Geoid-03(Conus), height above Mean Sea Level (MSL), and US Feet. Non-index wells with water levels predating 2003 may have been GPS surveyed using Geoid-99(Conus) which predates Geoid-03(Conus).

Data in RID 7629.02 superseded all previous private manual water level measurement data through 11/30/2008 (RIDs 6361, 6630, 7045, 7222, and 7422 7629, 7629.01). Hydrographs for reactivated wells are wells that were originally discontinued from the program during the period covered by this RID (12/1/99 - 11/30/08), then subsequently "reactivated" and put back onto the Nye County Water Level Measurement Program at a later date. The location and measurement point elevation of these reactivated wells were also updated with new field GPS surveys to increase vertical and horizontal accuracies. These wells are: AW 28, Hall2, Slack, Utilities 1, Utilities 2, Utilities 8, Utilities 9, Utilities 11, Utilities CM1, Utilities CVE48#1,and Utilities Mtn View Estates. Water level data for these "index" wells are shown in bold in Excel Spreadsheets. Hydrographs for all other wells are included in the superseded RIDs listed above. The export files have been compressed and posted to the NCWD website as rid7629_02.zip. Data limitations and data limitation metadata attachments are posted to the NCWD website as meta7629_02_Attach1.pdf and meta7629_02_Attach2.pdf.

Data Collection Method
Manual water level measurement data collected using standardized electric water level sounders in accordacne with Work Plan 10, Rev. 0, Groundwatger Level Monitoring and Evaluation.

Data Collection Location
Various locations in Pahrump Valley, Amargosa Desert, Chicago Valley, Stewart Valley, and surrounding areas. Specific locations for each well are included in RGED V.60_052115.mdb and in EIDs 5281, 6398, and 8182.

Data Collection Period
12/1/99 -11/30/08.

Data Sources	1) NWRPO derived latitude and longitude for well location and elevation data for ground elevation; 2) Depth to groundwater measured with electric water level sounders as recorded on the NWRPO Water Level Measurement Field Form or field scientific notebook; 3) Wellhead diagrams as established with engineers steel tape and recorded in scientific notebook showing casing type, diameter, and measuring point stickup above land surface. Supporting Data: : NWRPO Water Level Measurement Field Forms (TP-9.9 Rev 1 - Rev 3), field scientific notebooks, and RIDs 5281 6398, 7792, and 8182 containing updated GPS coordinates.
Data Censoring	The following censored data were found during a quality assurance review in 2010, and are also detailed in RID 7629 metadata: AW10 – Measurements of 74.32 ft on 12/22/99 and 73.00 ft on 2/22/01 were censored. These two measurements are believed to have been taken at a different well located nearby. Doloris – Measurements of 84.46 ft on 2/4/00 and 83.00 ft on 3/15/01 were censored. These two measurements are believed to have been taken at a different well located nearby. Franklin Dry Well – Measurement of 19.33 ft on 8/17/07 at 11:19 hrs was censored. This measurement was found to be a singularity, and not substantiated by later measurements or backup data. Hwy127 MM21 #1 – An incorrect measurement of 88.58 ft on 9/12/06 at 13:28 hrs was censored. The correct measurement of 87.58 ft for 9/12/06, as recorded on the field form, has been entered into the database. Longstreet #1 – Measurements of 35.78 ft on 2/4/00 and 38.54 ft on 3/22/01 were censored. These two measurements are believed to have been taken at a different well located nearby. Longstreet #2 – Measurements of 33.99 ft on 2/4/00 and 36.75 ft on 3/22/01 were censored. These two measurements are believed to have been taken at a different well located nearby. Sec 10 – Measurement of 181.45 ft on 2/20/08 at 16:03 hrs was censored. This measurement was found to be a singularity, and not substantiated by later measurements or backup data. Squaw Valley Well – An incorrect erroneous entry of 57.24 ft on 3/5/07 at 11:57 hrs was censored. The correct entry of 60.67 ft on 3/5/07 at 11:51, as a separate entry in the database, was verified by the field form. Utilities CVE48#1 – Measurement of 199.88 ft on 5/15/06 at 08:50 hrs was censored. This measurement was found to be a singularity, and not substantiated by later measurements or backup data.
Data Processing	This RID (7629.02) supersedes RID 7629.01 in order to update well locations based on reprocessed (Differentially Corrected) GPS locations using Trimble® Pathfinder Office (PFO) Program ver. 5.60. Routinely, data processing consists of calculations made in the Access database and exports made from the database to MS Excel. Additionally, data are evaluated through the use of hydrographs to determine whether anomalous data exist. Anomalous data are investigated (through scientific notebooks, earthquake records, etc.) to determine the source of the anomaly. If the anomaly cannot be explained, the data are censored. A quality assurance in-depth review was conducted in 2010 to insure the integrity of the Regional Groundwater Elevation Database. Data was compared against original field forms and entries in field scientific notebooks from the beginning of the program through the time period of this submittal. Clerical errors not affecting the integrity of the data were corrected. Corrections made to the database affecting data integrity are listed in Data Censoring and Data Limitations. The data censored in previous submittals (prior to 3/01/06) were not reevaluated.
Data Limitations	See attachment: RID 7629.02 Data Limitations Attachments 1 & 2. Data limitations included in the attachment reflect results from the 2010 quality assurance review and are also detailed in RID 7629.01 metadata.
Governing QA Docs:	WP-10 Rev. 0, TP-9.9 Rev. 3
Frequency of Transmittal	Biannually or as required by PI and approved by Geoscience Manager.
Direct Questions About Data To:	QA Records Center