

Technical Data Information Report

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7856.00	Howard	Nye County NWRPO	QARC	Nye County NWRPO	EWDP Phase VI

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Entry Date	1/11/2011	Detail Document Type	Technical Report	Keyword 3	Report
Document Title/Subject	Nye County Early Warning Drilling Program, Phase VI Drilling Report, NWRPO-2010-03.				
Data Originator/Preparer	NWRPO Technical Staff				
Data Description	<p>This record contains a CD and a hard copy of the subject report describing the scope, methods, and results of Phase VI of Nye County's Early Warning Drilling Program (EWDP). The CD also contains an EXCEL spreadsheet file, titled "RIDS for Drill Rpt VI.xls", that lists the original RIDs for the following EWDP Phase VI data collection activities: well drilling and construction; geologic logging, sampling, and related tasks; laboratory hydraulic parameter testing of geologic samples; and borehole geophysical logging. Also included in the package is the Technical Review form and the Phase VI Plate in .pdf and .wcl formats that is posted to the NWRPO website as rid7856_plate.pdf. Report is posted as rid7856.zip.</p>				
Data Collection Method	QA plans and procedures for Phase VI drilling, geologic sampling and logging, geophysical logging, and well construction are listed in Table 1.6-1 in the subject report. Industry-standard laboratory testing methods for measurement of hydraulic related parameters on Phase VI geologic samples are listed in Table 2.4-1 in the subject report. Finally, a summary of the types and application of geophysical logs used in Phase VI boreholes is presented in Table 2.5-1. Two exploratory boreholes were located on Site 4 which is just south of Gate 510 at the Nevada National Security Site (formerly the Nevada Test Site) and just north of U.S. Highway 95.				
Data Collection Location	Field activities were conducted from June 2008 through July 2009.				
Data Collection Period	RIDs containing original Phase VI drilling and hydrogeology related data are listed on the CD of the subject report as noted in the above description of the submitted record. In addition, the Nye County Drilling Database (RID 7722) contains all Phase VI geologic logging data contained in or referenced in the subject report.				
Data Sources	Supporting Data: References to RIDs containing supporting hydrogeology original data collected from EWDP Phase I and II boreholes can be found on the nyecounty.com website. Supporting hydrogeologic data from EWDP Phase III can be found in the technical report titled "Nye County Drilling, Geologic Sampling and Testing, Logging, and Well Completion Report for the Early Warning Drilling Program Phase III Boreholes, NWRPO-2002-04", (RID 5579). Data for Phase IV boreholes can be found in the technical report titled "Nye County Early Warning Drilling Program, Phase IV Drilling Report, NWRPO-2004-04" (RID 6801). Data for Phase V boreholes can be found in the technical report titled "Nye County Early Warning Drilling Program, Phase V Drilling Report, NWRPO-2009-02", (RID 7668).				
Data Censoring	Geologic data that were compromised or biased as a result of sampling, testing, and/or handling, or are shown to be unacceptably inaccurate field estimates, have been identified in Table 4.1-1 of the subject report. Borehole geophysical logging data that exhibit unacceptable noise and/or do not respond to known formation conditions as advertised are identified in Table 6.2-1. These geologic and geophysical data have been censored and will not be published by Nye County. However, these data may be viewed in their entirety at the NWRPO QA Records Center in Pahrump, NV.				
Data Processing	Data processing to support data analysis is described for different data types primarily in the results sections (Sections 4, 5, and 6) of the subject report.				
Data Limitations	Limitations for different data types are discussed in the subject report primarily in Sections 4, 5, and 6. Many of the limitations primarily result from the disturbing effects of drilling on hydraulic related properties of cuttings samples collected from unsaturated alluvial sediments. These limitations are detailed in the metadata for RIDs containing the original geologic logging data for EWDP Phase VI boreholes. For example, the drilling method (dual-wall reverse-circulation air-rotary method) used in EWDP Phase VI exploratory boreholes disturbs the particle size				

distribution of unsaturated alluvium drill cuttings from in situ formation conditions to varying degrees. This method grinds formation particles into smaller drill cuttings particles. In gravelly deposits this results in decreased gravel content and increased sand and fines content. Subsequently, a portion of the fines content is lost as dust from the cyclone separator, which captures the drill cuttings at the ground surface. Despite this drilling induced disturbance in particle size distribution, there is approximate agreement between particle size distributions obtained from drill cuttings and a limited number of drive core samples whose particle size distributions are generally considered representative of in situ conditions. As a result of this approximate agreement, drill cuttings particle size distributions were not censored. However, at the same time they should not be considered totally representative of in situ formation conditions.

Governing QA Docs:

WP-5 Rev 7, WP-6 Rev 1, WP-8 Rev 5, TP-7.0 Rev 4, TP-8.0 Rev 6, TPN-5.1 Rev 0, and TPN-8.1 Rev 0.

Frequency of Transmittal

One time only.

Direct Questions
About Data To:

NWRPO QA Records Center