

Technical Data Information Report

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Document Date	8/4/2009	General Document Type	Report	Keyword 2	EWDP V
Entry Date	8/7/2009	Detail Document Type	Technical Report	Keyword 3	Report
Document Title/Subject	Nye County Early Warning Drilling Program Phase V Drilling Report, NWRPO-2009-02, March 2009				
Data Originator/Preparer	Levi Kryder				
Data Description	<p>This record contains a CD and a hard copy of the subject report describing the scope, methods, and results of Phase V of Nye County's Early Warning Drilling Program (EWDP). The CD also contains EXCEL spreadsheet file, titled "RIDS for Drill Rpt V. xls", that lists the original RIDs for the following EWDP Phase V data collection activities: well drilling and construti; geologic logging, sampling, and related tasks; laboratory hydraulic parameter testing of geologic samples; amd borehole geophysical logging. Also included in the package are the Phase V Plates in .pdf and .wcl formats, and posted to the Nye County NWRPO website as rid7668_plates.pdf</p>				
Data Collection Method	QA plans and procedures for Phase V 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 V 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 V boreholes is presented in Table Three exploratory boreholes were located in an unnamed drainage, called Flat Tire Flat by the NWRPO, north of the Lathrop Wells cinder cone. Two additional exploratory boreholes were located on the west side of lower Fortymile Wash, just outside the western border of the Nevada Test Site, several miles north of U.S. Highway 95.				
Data Collection Location	Three exploratory boreholes were located in an unnamed drainage, called Flat Tire Flat by the NWRPO, north of the Lathrop Wells cinder cone. Two additional exploratory boreholes were located on the west side of lower Fortymile Wash, just outside the western border of the Nevada Test Site, several miles north of U.S. Highway 95.				
Data Collection Period	October 2004 -April 2006.				
Data Sources	<p>RIDs containing original Phase V 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 7561) contains all Phase V geologic logging and most geologic sample laboratory testing data contained in or referenced in the subject report. Many of the graphs and tables in the subject report were generated as reports by this database.</p> <p>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).</p>				
Data Censoring	<p>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.</p>				
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 V boreholes. For example, the drilling method (dual-wall reverse-circulation air-rotary method) used in EWDP Phase V 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 gravely 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, WP-6, WP-8, TP-7.0, TP-8.0, TPN-5.3, and TPN-8.1.

Frequency of Transmittal

One time only

Direct Questions
About Data To:

NWRPO QA Records Center