

NYE County NWRPO -Technical Data Report

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These field estimates of grain size distribution as well as USCS group symbol data should be considered reasonably representative of geologic samples and have not been censored. Grain size distribution data determined by laboratory analysis on every second 2.5 foot sample interval are considered representative of the geologic samples.

In addition, some sample handling disturbance may have been introduced into samples by: 1) material accumulating on wet drill pipe and rotating splitter during wet drilling; 2) unsaturated zone sample homogenization process and sample splitting.

Sample weights in sample density data do not include material that is lost to winnowing of unsaturated fines (dust) or material that was "cleaned out" of the borehole after each 20 ft drill run. Therefore unsaturated zone sample weight data is not representative of the volume of the borehole drilled, should not be used in density calculations, and has been censored.

In the upper section of the saturated zone from 256 to 400 ft, the water production data was estimated. Injection water was required to lift the sample and maintain a clean drill string as the drilling air was suppressing water flow from the formation. Beginning at 400 ft, timed volume water tests were conducted generally at 40 to 60 foot intervals to measure the production of water. From 760 to 800 ft water production could only be estimated due to the fact that the drill string was "booting off" as a result of loose sediments coming down from above in the borehole and blocking-off drilling return water.

Evaluations of cementation and structure as recorded on the logging forms are difficult to accurately determine because intact pieces of in-situ material are not available in cuttings. Cementation estimates were not logged in the interval from 260 to 400 ft due to field error.

In summary, laboratory measurements of grain size distribution of alluvium drill cuttings in this borehole are considered to be modified to some extent from in situ conditions due to a number of drilling related factors. However, for the most part these factors were unavoidable. Disturbance from sample handling related factors is considered minimal. Except for censored data mentioned above, geologic drill cutting samples from NC-EWDP-32P are considered approximately representative of in situ conditions. The geologic data recorded in these geologic logs are used to produce a Summary Lithologic Log.

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**Governing
 QA Docs.** TP-8.0 Rev. 5, TP-7.0 Rev. 3

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**Frequency
 of
 Transmittal** Once per borehole/well

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**Direct Questions
 About Data
 To-** NWRPO QA Records Center