
Plan Overview

A Data Management Plan created using DMPTool

Title: Assessment of the Groundwater Quality from the Post Meteorite Impact Aquifers, in the Virginia Coastal Plain

Creator: James Watling

Affiliation: Virginia Commonwealth University (vcu.edu)

Funder: National Science Foundation (nsf.gov)

Funding opportunity number: 16168

Template: NSF-AGS: Atmospheric and Geospace Sciences

Last modified: 07-23-2015

Copyright information:

The above plan creator(s) have agreed that others may use as much of the text of this plan as they would like in their own plans, and customize it as necessary. You do not need to credit the creator(s) as the source of the language used, but using any of the plan's text does not imply that the creator(s) endorse, or have any relationship to, your project or proposal

Assessment of the Groundwater Quality from the Post Meteorite Impact Aquifers, in the Virginia Coastal Plain

Products of research

Describe the types of data and products that will be generated in the research, such as physical samples, space and/or time-dependent information on chemical and physical processes, images, spectra, final or intermediate numerical results, theoretical formalisms, computational strategies, software, and curriculum materials.

Assessment of the Groundwater Quality from the Post Meteorite Impact Aquifers, in the Virginia Coastal Plain

Types of Data Produced

Data collected for this project will be information regarding the sediments of the coastal plain aquifers (Piney point and Potomac; specifically grain size distribution and elemental composition) and groundwater quality of the aquifers (dissolved heavy metal concentration). The sediment samples will be collected from the Piney Point and Potomac exposures. Groundwater samples will be collected from wells drawing from the Piney Point and Potomac aquifers.

These measurements will be recorded into a lab notebook, then entered into an Excel spreadsheet.

At each sampling location we will record the coordinates. These coordinates will be used to create a map displaying sampling locations. ESRI's ArcMap program will be used to create the map

Data format

Describe the format in which the data or products are stored (e.g. hardcopy logs and/or instrument outputs, ASCII, XML files, HDF5, CDF, etc). What metadata will be part of the data sets produced?

2. Data and metadata standards

All data will be in .csv and .txt files. A microsoft excel spreadsheet will initially be used to record all measurements. The spreadsheets can then be exported as text files.

The metadata file describing the data will be in stored as a .txt file.

The map as well as the layers and any important tables created using ArcMap will be exported as a map pack.

The data will be submitted to the VCU Rice Center. The data will be submitted to a relevant scientific journal.

Access to data, and data sharing practices and policies

Describe your plans for providing access to data, including websites maintained by your research group and contributions to public databases. If maintenance of a web site or database is the direct responsibility of your group, provide information about the period of time the web site or database is expected to be maintained. Also describe your practice or policies regarding the release of data—for example whether data are available before or after formal publication and the approximate duration of time that the data will be kept private. Describe your policies (where applicable) for protection of propriety data, privacy and confidentiality, intellectual property, or other rights or requirements.

3.Policies for access and sharing

Data will be stored on the University's RedCap and/or the University's Rice Rivers Center Google Drive.

All data will be made available by January 1st, 2016 or when the project is completed. Metadata files will accompany the data files that will have information explaining what the data means (how it was collected, the types of measurements, an explanation of sample codings, and sampling locations).

In order to reuse the layers in the mappack, ArcMap will be needed.

Policies and provisions for re-use, re-distribution and production of derivatives

Describe your policies regarding the use of data provided via general access or sharing. If you plan to provide data on a website, will the site contain disclaimers, or conditions regarding the use of the data in other publications or products? If the data or products are copyrighted, how will this be noted on the website?

Policies for Re-use, Distribution

The data will be submitted to the VCU Rice Center. The data will also be submitted to a relevant scientific journal.

The data will be made available after the project is complete or January 1, 2016

I along with any other researchers that assist me with the project will hold the intellectual property rights of the data.

Archiving of data

Describe whether and how data will be archived and how preservation of access will be handled. For example, will hardcopy logs, instrument outputs, and physical samples be stored in a location where there are safeguards against fire or water damage? Is there a plan to transfer digitized information to new storage media or devices as technological standards or practices change? Will there be an easily accessible index that documents where all archived data are stored and how they can be accessed? If the data will be archived by a third party, please refer to their preservation plans (if available).

Question not answered.