# SSHCZO Metadata Worksheet

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| Data File Name | **SH\_Well\_W16.csv** |
| Date Prepared | 2022-03-31 |
| Descriptive Title | Well 16 |
| Update Frequency | Quarterly |
| Abstract | Groundwater level data and water temperature for well 16 are measured every 15 minutes using a HOBO U20-001-01 non-vented pressure transducer. Recorded data began 2020-09-15. Data will be manually downloaded approximately every month and processed. |
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| Data Value Descriptions | * COL1: label = TmStamp\_UTC; TimeZone = UTC
* COL2: label = WaterTemp\_C; Units = degC, water temperature
* COL3: label = WL\_BLG\_m; Units = meters; corrected water level below ground
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| Keywords | Groundwater Depth, Groundwater Temperatures, Hydrology |
| Methods | Groundwater level measurements are recorded every 15 minutes on a HOBO U20-001-01 non-vented pressure transducer. Data are manually downloaded monthly using HOBO-Ware Pro software. Sensor depths are calculated in the software by processing with barometric pressure data recorded on a separate HOBO U20-001-01 pressure transducer. Manual field measurements are made using a Solinist electric tape to measure water level below ground. These manual measurements are used to apply a prorated correction between visits to create the final water level below ground (WL\_BLG\_m). The QA/QC process is accomplished in R (R Core Team, 2022).R Core Team (2022). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL https://www.R-project.org/.well_diagramTOC above land surface = 0.47 metersSensor location down borehole from TOC = 3.92 metersSensor location below land surface = 3.45 metersThe water table below land surface obtained by subtracting the head pressure and above ground casing length from the sensor depth.-9999 marks erroneous or missing data due to data downloads or sensor malfunctionData Gaps |
| Sites | Shale Hills Valley DMS: 40.665327, -77.902517NAD\_1983\_StatePlane\_Pennsylvania\_South\_FIPS\_3702); Elevation 282.472 |
| Publications | none |
| Citation | The following acknowledgment should accompany any publication or citation of these data: Logistical support and/or data were provided by the NSF-supported Susquehanna Shale Hills Critical Zone Observatory. |
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