| **Attribute** | **Definition** | **Programs that Require Reporting** | **Required/Optional1** | **Recommended Reporting Accuracy2** | **Unit/Format** | **Data Type** | **List of Options** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Local Well Name** | Name or number identifier given by the Monitoring Agency used to identify the well on a local basis. | SGMA  GeoTracker | At least one well identifier must be entered for each submittal | N/A | N/A | text | N/A |
| **State Well Number** | State Well Number provided by the Department of Water Resources. |  | At least one well identifier must be entered for each submittal | N/A | N/A | text | N/A |
| **Master Code** | Unique identifier assigned to each well for a relevant program that the program uses to track individual wells within the program’s system. | SGMA  CASGEM  GeoTracker | At least one well identifier must be entered for each submittal | N/A | N/A | text | N/A |
| **Relevant Program** | Name of the program that the Master Code has been specified from to aid in identifying what program the well is associated with. |  | Required, if Master Code entered | N/A | N/A | text (selected from list of options) | SGMA  CASGEM  GeoTracker  SAFER |
| **Measurement Date** | Date groundwater level measurement was taken. | SGMA  CASGEM  GeoTracker | Required | N/A | mm/dd/yyyy | date | N/A |
| **Measurement Time** | Time groundwater level measurement was taken. | SGMA  CASGEM | Optional, default is 12:00:00 | N/A | hh:mm:ss (PST 24-hour) | time | N/A |
| **Reading at Reference Point (RRP)** | Groundwater level measurement reading as depth to water below the reference point (RP) of the well (RRP). | SGMA\*  CASGEM\*  GeoTracker\* | Required, unless a No Measurement Code is selected | tenth of a foot or greater | feet below RP | numeric | N/A |
| **Reading at Water Surface (RWS)** | Measurement of the watermark on a steel tape, equivalent, or electronic sounder after making the groundwater sounding (RWS); typically, 0.00 for an electronic sounder. | SGMA\*  CASGEM\* | Optional, default is 0.00 | tenth of a foot or greater | feet | numeric | N/A |
| **Water Surface Elevation (WSE)** | Calculated water surface elevation (WSE).   **Calculated as**: WSE = RPE - (RRP - RWS)  RPE = reference point elevation which is reported as part of the Well Characteristics attributes |  | Optional | tenth of a foot or greater | feet NAVD88 | numeric | N/A |
| **Ground Surface to Water Surface (GS to WS)** | Depth to water below ground surface, or ground surface to water surface (GS to WS).  **Calculated as**: GS to WS = GSE - WSE |  | Optional | tenth of a foot or greater | feet below ground surface | numeric | N/A |
| **Water Level Datum** | Vertical datum associated with calculated water surface elevation. |  | Required | N/A | NAVD88 (recommended) | text (selected from list of options) | WGS84  NAVD88  NAD83  NGVD29 |
| **No Measurement Code** | Code providing explanation for no groundwater level measurement being taken. | SGMA\*  CASGEM\* | Required, unless a RRP is entered | N/A | N/A | text (selected from list of options) | 0 - Measurement Discontinued 1 - Pumping 2 - Pump house locked 3 - Tape hung up 4 - Can't get tape in casing 5 - Unable to locate well 6 - Well has been destroyed 7 - Special/Other 8 - Casing leaking or wet 9 - Temporarily inaccessible D - Dry well F - Flowing artesian well |
| **Quality Measurement Code** | Code providing a description of the quality of the groundwater level measurement. | SGMA\* | Optional | N/A | N/A | text (selected from list of options) | 0 - Caved or deepened 1 - Pumping 2 - Nearby pump operating 3 - Casing leaking or wet 4 - Pumped recently 5 - Air or pressure gauge measurement 6 - Other 7 - Recharge or surface water effects near well 8 - Oil or foreign substance in casing 9 - Acoustical sounder E - Recently flowing F - Flowing G - Nearby flowing H - Nearby recently flowing |
| **Measurement Method** | Method used to collect groundwater level measurement. | SGMA\*  CASGEM\* | Optional | N/A | N/A | text (selected from list of options) | ES - Electric sounder measurement ST - Steel tape measurement AS - Acoustic or sonic sounder PG - Airline measurement, pressure gage, or manometer TR - Electronic pressure transducer OTH - Other UNK - Unknown |
| **Measurement Accuracy** | Accuracy of groundwater level measurement. | SGMA | Optional | N/A | N/A | Text (selected from list of options) | 0.1 Ft 0.01 Ft 0.001 Ft Unknown  Other |
| **Collection Agency** | Name of agency that collected groundwater level measurement. | SGMA  CASGEM | Optional | N/A | N/A | text | N/A |
| **Water Level Comments** | General description or other notes associated with groundwater level measurement. | SGMA\* | Optional | N/A | N/A | text | N/A |
| 1Attributes designated as optional may be required depending on program specific reporting compliance. Fields designated as required are deemed to be the most important attributes for reporting. However, if required data is missing, the user may still upload the attributes that are available. Required fields that are not submitted will cause the data to be flagged for quality control purposes. Additional evaluation of the SAFER program’s level of requirements is still needed to highlight program reporting requirements.  2The Recommended Reporting Accuracy does not preclude data outside of the recommended accuracy from being submitted. Data with Unknown or Other Accuracy may be flagged as potentially inaccurate data.  \*Designated as a conditional reporting requirement for the specific program.  **Acronyms**:  N/A = not applicable PST = Pacific Standard Time RP = reference point  RPE = reference point elevation RRP = reading at reference point RWS = reading at water surface WSE = water surface elevation NAVD88 = North American Vertical Datum of 1988  WGS84 = World Geodetic System  NAD83 = North American Datum of 1983  NGVD29 = North Geodetic Vertical Datum of 1929 | | | | | | | |
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