3 GROUND-WATER SITE-INVENTORY MENUS

by Leslie W. Lenfest, Jr.

There are two primary menus used to access GWSI programs, the GWSI Main Menu and GWSI System Menu. Most of the nationally supported GWSI programs used by the majority of users are accessed through the GWSI Main Menu. System Administrators or GWSI Database Administrators use the GWSI System Menu to perform database maintenance; the menu and the utilities on the menu are explained in the NWIS Ground-Water Site-Inventory System Menu documentation. Both menus provide access to submenus, which contain additional GWSI functionality that is used less often than the primary functions. Common to all GWSI Menus are codes 98 and 99, which provide menu navigation and exit functions. If the user is attached to a directory that contains *usr/opt/nwis* in the pathname when the GWSI Main Menu is invoked, the directory will be changed to the origin directory. A UNIX command or user abbreviation may be executed from any GWSI menu. Virtually any command may be used, but if the command closes the unit on which the GWSI menu was active, control cannot be returned to the menu. The GWSI Documentation Menu structure is shown below:

3.1	*GWSI Main Menu*
3.1.11	*Utilities Menu*
3.1.11.1	*Database Checking Menu*
3.1.11.2	*GW Check List Menu*
3.1.12	*Documentation Menu*
3.1.13	*Local Menu*

The GWSI Main Menu allows access to utilities that prepare data for entry into the GWSI database, provides for editing of the data for accuracy, updating the local database, and retrieving data from the local database. The data are presented in tabular and graphical formats. The GWSI Main Menu structure contains the Main Menu and three submenus: Utilities Submenu, Documentation Submenu, and Local Submenu. The Utilities Submenu, in turn, contains two additional submenus that can be used to verify and correct data in the database.

3.1 GWSI Main Menu

The GWSI Main Menu contains the following functions:

- Prepare data for entry into the database (Query Entry and Screen Entry Validate data and prepare for updating database (Interactive Edit and Batch Edit)
- Update database (Interactive Update, Batch Update, Sitefile Only Update)
- Access and display data (Retrieval/Table, Hydrographs)
- Provide data support (Utilities Submenu)
- Access user documentation (Documentation submenu)

```
**********************************************************************
*  Main Menu for WRD GWSI Database # 01  -- NWIS-4_4_1-4
**********************************************************************

Code   Program Description              Code   Program Description
----   -------------------              ----   -------------------
 1 : Query Entry                        11 : Generate Field Forms
 2 : Screen Entry                       12:   QW Entry
 3 : Edit GW Data (from 1-2)            13 : Edit GW Data in Batch
 4 : Update GW Data (from 3)            14 : Update GW Data in Batch
 5 : Update Sitefile Only (runs 2,3,4)
 6 : Retrieval/Tables                   16 : Plot Hydrographs
 7 : Copy File (from 1-2) to Directory watin

10 : Change GW/QW Database #
                                        91 : Utilities Menu
92 : Database Check Menu                93 : List Utilities Menu
96 : Documentation Menu                 97 : Local Menu

98 : Exit to Previous Menu              99 : Exit to UNIX

 Enter UNIX Command or Select Program Code:
```

Note: Users with read-only access will not see the Update programs indicated by codes 4, 5, and 14 on the Main Menu.

3.1.1 Option 1: Query Entry

This program displays a sequence of prompts to the user for entry of all or selected GWSI data components. The entered data are output into a file with a defaulted or user-designated name for use by the Edit software. Additional information about entering data into GWSI using the query entry option is available in *Chapter 4*. Information about the fields that can be entered into GWSI is available in *Chapter 2* of this document.

3.1.2 Option 2: Screen Entry

This program displays screens on the monitor with data grouped in categories (site, construction, etc.) for entry of GWSI data components. The entered data are output into a file with a defaulted or user-designated name for use by the Edit software. Additional information about entering data into GWSI using the screen entry option is available in *Chapter 5*. Information about the fields that can be entered into GWSI is available in *Chapter 2* of this document.

3.1.3 Option 3: Edit GW Data/Option 13: Edit GW Data in Batch

These programs use the files generated in either option 1 or 2 above to provide a second level of data verification and to create transaction files used by the UPDATE software to transfer the data to the Ingres database. In both processes, a 'batch' ID is entered after the input file name is identified; this ID is used by UPDATE to identify the data set that is to be transferred to the Ingres database. The difference between the two options is that

Option 3 is interactive with the user, Option 13 defers processing to a background process. Additional information about using this program is available in *Chapter 6*.

3.1.4 Option 4: Update GW Data/Option 14: Update GW Data in Batch

These programs use the transaction files generated during the Edit step to further validate the data and load the data into the Ingres database. Both processes prompt the user for the 'batch' ID entered from the Edit step to identify the data set that is to be transferred to Ingres. The difference between the two options is that Option 4 is interactive with the user. Option 14 defers processing to a background process. Additional information about using this program is available in *Chapter 7*.

3.1.5 Option 5: Update Sitefile Only

This program combines Options 2, 3, and 4 into one process. Only Sitefile data can be loaded with this option.

3.1.6 Option 6: Retrieval/Tables

This program provides access to data entered into the database and displays it in several different formats. Data selection is facilitated by gross and detailed selection criteria. Data may be output in table format or in files that may be used for further processing of the data. More detailed information about how to run this program is available in *Chapter 8*.

3.1.7 Option 7: Copy File (from 1-2) to Directory watin

This program copies files from the user's current directory to a common repository directory, 'watin.' The UPDATE process may be restricted to certain users; files are copied to watin because it is the common repository for database update files.

3.1.8 Option 10: Change GW/QW Database Number

This program allows the user to change the database number for either or both the Ground-Water database and the Water-Quality database.

3.1.9 Option 11: Generate Field Forms

This program generates a custom form for use in the field. Any of the GWSI data components may be selected for display on the form, and the form may be blank or populated with current data available for the selected sites. More detailed information about this program is available in *Chapter 10*.

3.1.10 Option 12: QW Entry

This option will start the QWDATA subsystem of NWIS. Water-quality data can be entered through this link from GWSI. Details about using QWDATA are included in the *QWDATA User Documentation*.

Note: When QWDATA is opened from within GWSI, you should be aware of what QWDATA database is opened. You should review the message at the top of the screen when option 12 is selected:

YOU ARE USING WATER-QUALITY DATABASE NUMBER 01.

When you access QWDATA from within the GWSI program, the database opened is the same as the database number you were using within the GWSI program -- it is not the database number saved from the last session with QWDATA directly. If you need to change the database within QWDATA, you will need to change it before entering any data. The last time you directly accessed QWDATA, the database you were using was saved when exiting that session of QWDATA. When you exit from QWDATA within GWSI, the QWDATA database will be reset to the database used when exiting the last session of QWDATA directly.

3.1.11 Option 16: Plot Hydrographs

This program provides a graphical representation of water-level data for selected sites either to the monitor screen or to a printer. More detailed information about this program is available in *Chapter 9*.

3.1.12 Option 91: The Utilities Submenu

- Code 1 - translates a station name into agency and site identification (Site ID) number. Detailed information for this option is available in *Chapter 11*.
- Code 2 – inventories, changes, or deletes stations. Detailed information about the station change program is available in *Chapter 12*.
- Code 3 - accesses support files (parameter code dictionary, geologic unit code file, FIPS code file, and state/county code file, etc.) Detailed information for the support files menu is available in *Chapter 13*.
- Code 4 - accesses the Data Dictionary (either a short or a long list).
- Code 5 - lists records for one or more sites, as specified by the user.
- Code 10 - changes a user's default database number when multiple databases are used at a site and the user has access rights to more than one database. Detailed information for this option is available in *Chapter 14*.

```
*********************************************************************
*  Utilities Menu for WRD GWSI Database # 01  --  NWIS-4_4_0-20040329
*********************************************************************

Code   Program Description
----   ------------------
  1 : Translate Station Name Into Agency and Site ID
  2 : Station Change: Inventory, Change or Delete
  3 : Query Support Files
  4 : Data Dictionary List
  5 : List Site Records

 10 : Change GW/QW Database #

 92 : Database Check Menu                  93 : List Utilities Menu

 98 : Exit to Previous Menu               99 : Exit to UNIX

Enter UNIX Command or Select Program Code:
```

3.1.13 Option 92: Database Checking Menu

The Database checking menu is described in detail in Chapter 9 of the GWSI DBA Manual. Please refer to that section for details about this menu.

3.1.14 Option 93: List Utilities Menu

The List Utilities menu is described in detail in Chapter 12 of the GWSI DBA Manual. Please refer to that section for details about this menu.

3.1.15 Option 96: Documentation Submenu

The Documentation Submenu (code 96) launches Netscape and the user is automatically taken to the GWSI User Documentation at the following URL:

http://wwwnwis.er.usgs.gov/nwisdocs4_4/gw/OpenFileDocs/GW.user.book.html

The NWIS 4.4 documents are stored in PDF files, which require the Adobe Acrobat Reader to view and print.

3.1.16 Option 97: Local Menu

The local menu is available for WSC-specified options.

This is intended to be a user-modifiable script and can be found at */usr/opt/nwis/util/gwlocal*.

Please contact NWIS if you need assistance modifying this script with WTC-specified options.

```
**********************************************************************
*  Local Menu for WRD GWSI Database # 01 -- NWIS [version no.+yyyymmdd]
**********************************************************************
Code   Program Description              Code   Program Description
----   ------------------              ----   -------------------
  1 : Local Option 1
  2 : Local Option 2
  3 : Local Option 3
  4 : Local Option 4
  5 : Local Option 5
  6 : Local Option 6
  7 : Local Option 7
  8 : Local Option 8
  9 : Local Option 9
 10 : Change GW/QW Database #

 80 : Local Menu 1                      81 : Local Menu 2

 98 : Exit to Previous Menu            99 : Exit to UNIX

Enter UNIX Command or Select Program Code:
```