12 STATION CHANGE: INVENTORY, CHANGE, OR DELETE

by Sean M. McMahon

The Station Change program provides the ability to inventory, change a station identifier, or delete a site and all of the site’s related data. This program provides information for a site from the Site, Ground-Water, Water-Quality, SWUDS, and ADAPS data tables. Because station change affects multi-discipline data, exercise extreme caution during its use. Only individuals with DBA access can use the change and delete functions.

12.1 Program Operation

Execute the program by selecting Option 91 from the GWSI Main Menu, which takes you to the Utilities Menu. Select Option 2: Station inventory, change, or delete. The same program is also available in QWDATA – Utilities menu: option 3 and GWSI system menu: option 3.

The program will expect the user to enter the database to be searched. The database number entered and any other databases that share the same sitefile (e.g. QA database) will be included when the program is run. **NOTE: This means that a change or delete of a station in one database will be applied to all databases that share the same sitefile.**

Once the database number has been entered, the program allows the user to choose to inventory, change, or delete a station:

```
Your current GW data base is number 01
Database number: 01
Site Inventory, Change, or Delete
------------------------------------
This program inventories, changes, or deletes *all* database records for a single agency code and site number.
```

Station Inventory

If inventory (I) is selected, the user is required to enter a valid agency code and site number. If an invalid agency code or site number is entered, the program will stop and print the following error message:
Enter agency code and site number: NOTASITE 9998888
Invalid agency code 'NOTAS'
Agency codes are listed in the AGENCY table

[I]ntventory, [C]hange, [D]elete, or [Q]uit? [icdQ]: i

Enter agency code and site number: USGS 22222222
Site 'USGS 22222222' does not exist in database 01

[I]ntventory, [C]hange, [D]elete, or [Q]uit? [icdQ]:

When a valid agency code and site are entered, the program will search the site, groundwater, water-quality, ADAPS, and water-use files to determine what is stored in the database for the site entered. Output will appear on the screen similar to:

```
Enter agency code and site number: USGS 06130000
Site: 'USGS 06130000', Flatwillow Creek near Mosby MT

Database: 01
Common
Tables | Rows
---------|---------
SITE | 1
SITEFILE | 1

ADAPS
Tables | Rows
---------|---------
AD_SITE | 1
AD_INDEX | 1
LOC | 1
DD | 5
DV | 9
DV_DATA | 2716

QW
Tables | Rows
---------|---------
QW_SAMPLE | 97
QW_RESULT | 2023
QW_RESULT_CM | 127
QW_VAL_QUAL | 10

Database: 02
Common
Tables | Rows
---------|---------
SITE | 1
SITEFILE | 1

QW
Tables | Rows
---------|---------
QW_SAMPLE | 11
QW_RESULT | 54
QW_RESULT_CM | 54
```
Enter agency code and site number: usgs 463722111590201
Site: 'USGS 463722111590201', 10N03W16DBAD01

Database: 01

<table>
<thead>
<tr>
<th>Common Tables</th>
<th>Rows</th>
</tr>
</thead>
<tbody>
<tr>
<td>SITE</td>
<td>1</td>
</tr>
<tr>
<td>SITEFILE</td>
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</tr>
<tr>
<td>SITE_OWNER</td>
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<table>
<thead>
<tr>
<th>GWSI Tables</th>
<th>Rows</th>
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</thead>
<tbody>
<tr>
<td>GW_CONS</td>
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<tr>
<td>GW_CSNG</td>
<td>1</td>
</tr>
<tr>
<td>GW_GEOH</td>
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<tr>
<td>GW_HOLE</td>
<td>1</td>
</tr>
<tr>
<td>GW_LEV</td>
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<tr>
<td>GW_LOGS</td>
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</tr>
<tr>
<td>GW_MPNT</td>
<td>1</td>
</tr>
<tr>
<td>GW_NETW</td>
<td>2</td>
</tr>
<tr>
<td>GW_OPEN</td>
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</tr>
<tr>
<td>GW_OTID</td>
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<tr>
<td>GW_VIST</td>
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<tr>
<td>QW_RESULT</td>
<td>78</td>
</tr>
<tr>
<td>QW_VAL_QUAL</td>
<td>4</td>
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Database: 02

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<th>Rows</th>
</tr>
</thead>
<tbody>
<tr>
<td>SITE</td>
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<tr>
<td>SITEFILE</td>
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<tr>
<td>SITE_OWNER</td>
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<table>
<thead>
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<th>Rows</th>
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<tr>
<td>QW_RESULT</td>
<td>13</td>
</tr>
<tr>
<td>QW_RESULT_CM</td>
<td>13</td>
</tr>
<tr>
<td>QW_VAL_QUAL</td>
<td>8</td>
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</tbody>
</table>

Do you want to save the inventory report to a file? [yN]: 
The output can be saved to a file by entering a ‘y’ at the last query.

Station Change

If change (‘C’) is selected, the program will ask for a valid agency code and site number to be entered of the station to be changed. The next query will ask for the agency code and site number for the new station:

```
Database number: 01
Site Inventory, Change, or Delete
------------------------------------
This program inventories, changes, or deletes *all* database records for a single agency code and site number.

[I]nventory, [C]hange, [D]elete, or [Q]uit? [icdQ]: c
Enter agency code and site number: USGS 22222222
Enter new agency code and site number for 'USGS 22222222', :
USGS 22222228
```

After a new agency code and site number have been entered, the program will print to the screen all files affected by the change and ask for confirmation of the change:

```
Site: 'USGS 22222222', Test site 01/16/03
Database: 01
Common Tables               Rows
==============================-========
SITE                           1
SITEFILE                       1
Database: 02
Common Tables               Rows
==============================-========
SITE                           1
SITEFILE                       1
Are you sure you want to change site 'USGS 22222222' to 'USGS 22222228'? (*YES* or "N") You must answer "YES"
```

The word ‘YES’ (capital letters) must be entered for the change to take effect. Queries for the name of the person making the change and to enter a reason for the change appears on the screen:
Are you sure you want to change site 'USGS 22222222' to
'USGS 22222228'? ("YES" or "N") You must answer "YES"
for changes to take effect: YES

Name of person requesting site change: Mickey Mouse

It is important for future reviews of this site that the reason for the change is entered accurately. Output similar to the following should appear on the screen:

'USGS 22222222' was successfully changed to
'USGS 22222228' in database 01. You can review the changes to
database 01 with the stnhistory program.

Site: 'USGS 22222228', Dorrie's test site 01/16/03

Database: 01

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</thead>
<tbody>
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<td>SITE</td>
<td>1</td>
</tr>
<tr>
<td>SITEFILE</td>
<td>1</td>
</tr>
</tbody>
</table>

Database: 02

<table>
<thead>
<tr>
<th>Common Tables</th>
<th>Rows</th>
</tr>
</thead>
<tbody>
<tr>
<td>SITE</td>
<td>1</td>
</tr>
<tr>
<td>SITEFILE</td>
<td>1</td>
</tr>
</tbody>
</table>

[I]nventory, [C]hange, [D]elete, or [Q]uit? [icdQ]:

Station Delete

If delete (D) is selected, the program will ask for a valid agency code and site number to be entered. Output will appear on the screen that includes all files affected by deleting the site followed by a query asking for confirmation of the station delete:
Inventory, Change, Delete, or Quit? [icdQ]: d

Enter agency code and site number: USGS 22222228
Site: 'USGS 22222228', Test site 01/16/03

Database: 01
Common Tables Rows
-----------------------------------
SITE                      1
SITEFILE                  1

Database: 02
Common Tables Rows
-----------------------------------
SITE                      1
SITEFILE                  1

Are you sure you want to delete these rows? ("YES" or "N")
You must answer "YES" to delete this site:

The word ‘YES’ (capital letters) must be entered for the delete to take effect. Queries for the name of the person requesting the delete and a reason for the delete appear on the screen:

Are you sure you want to delete these rows? ("YES" or "N")
You must answer "YES" to delete this site: YES
Name of person requesting site delete: Donald Duck
Reason for site change: Testing

A confirmation of the delete should appear:

Station 'USGS 22222228' in database 01 has been deleted
You can review the changes to database 01 with the stnhistory program

Note: The station history program can be used to review changes to sites in the database. A description of the station history program is available in Chapter 3 of the GWSI DBA Manual.