WATER-QUALITY DATA EXCHANGE UPDATE

ACWI

Reston, VA July 2011

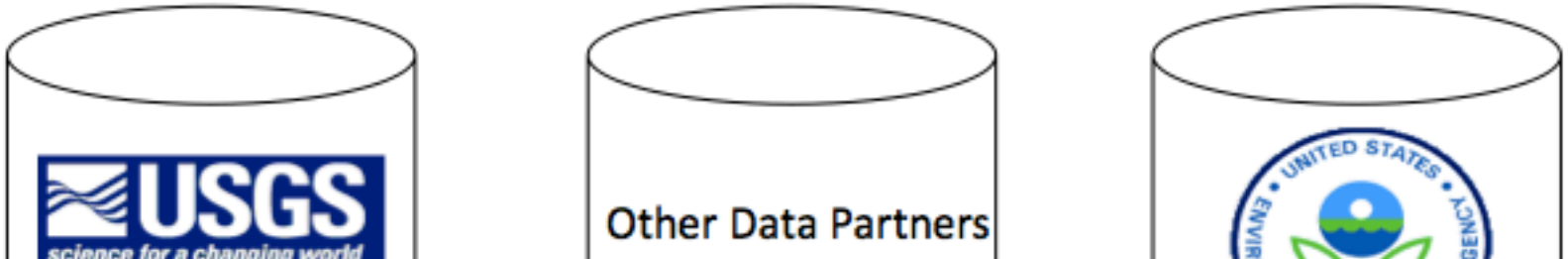
Nate Booth (USGS), Kristen Gunthardt (USEPA)

NWQMC

NATIONAL WATER QUALITY MONITORING COUNCIL

Working Together for Clean Water

Water-Quality Data Exchange



Integrated water quality monitoring data is made possible through:

- Web services technology
- Standardized metadata
- Compatible search parameters
- Common vocabularies

Status

- Web services available now for accessing water-quality data from USGS and EPA in common formats derived from NWQMC data elements
- Development of a shared portal continues to more provide more efficient access to USGS and USEPA water-quality data
- A user group that comprises state and federal agencies is being formed to validate the portal and inform future capabilities
- Target of Q4 CY2011 for beta release

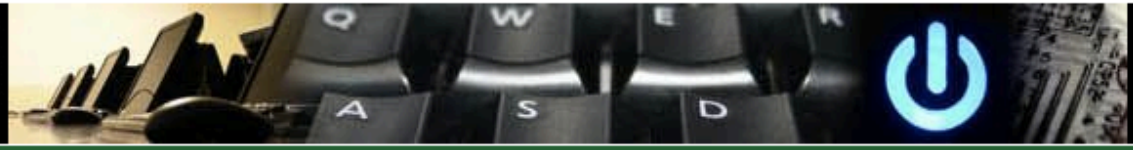
USGS

USGS National Water Information System (NWIS) Water-Quality Web Services

http://qwwebservices.usgs.gov/portal.html

Google

USGS science for a changing world



USGS Home
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National Water Information System (NWIS) Water-Quality Web Services

Location Parameters

Bounding Box ?

North:

West: East:

South:

Distance within ?

miles from

Latitude:

Longitude:

State: select

County: select

Note: input fields accept semicolon-delimited values (where valid)

Site Parameters

Site Type: select

Organization ID: select

Site ID: ?

HUC: ?

Result Parameters

Sample Media: select

Characteristic Group: select

Characteristic: select

NWIS PCODE: 5-digit

Activity ID: ?

Start Date (MM-DD-YYYY)

after and before

File Format

data

- WQX-XML ?
- Comma-separated
- Tab-separated
- MS Excel

Excel 2003 and earlier versions have a limit of 65,536 rows. If your download file exceeds this limit, only the first 65,536 rows will open.

map

- Keyhole Markup Language (KML)

KML output is available for the "Download Sites Only" option.

Compress

- [x] zip

Download Sites Only | Download Results | Show Request | Reset

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

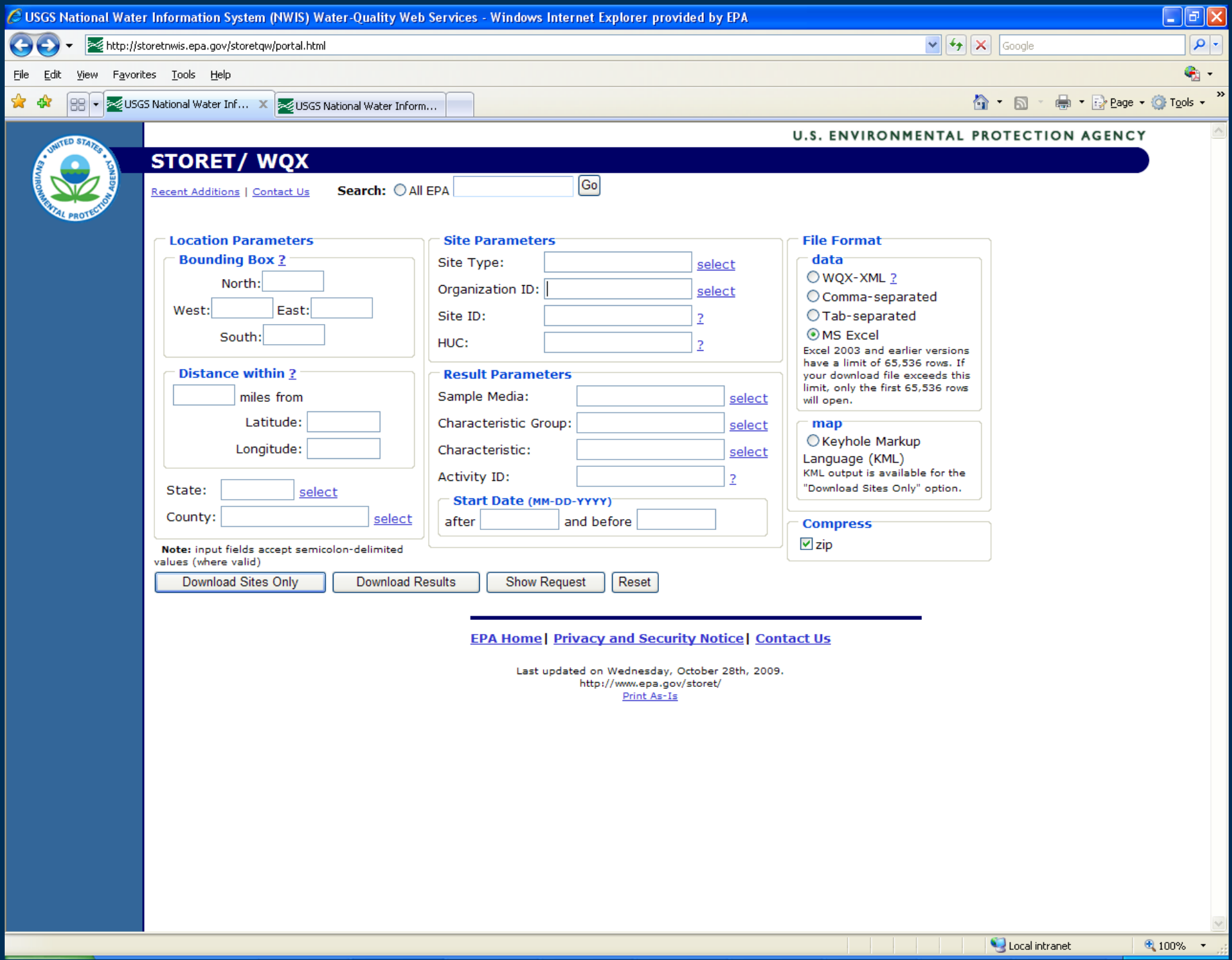
URL: http://qwwebservices.usgs.gov/portal.html

Page Contact Information: GS-W-QWWebServicesHelp@usgs.gov

Page Last Modified: Tue Apr 27 2010 12:21:49 GMT-0500

USA.gov

TAKE PRIDE IN AMERICA


USGS National Water Information System (NWIS) Water-Quality Web Services - Windows Internet Explorer provided by EPA
http://storetnwis.epa.gov/storetqw/portal.html
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Location Parameters
Bounding Box ?
North:
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zip
Note: input fields accept semicolon-delimited values (where valid)
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http://www.epa.gov/storet/
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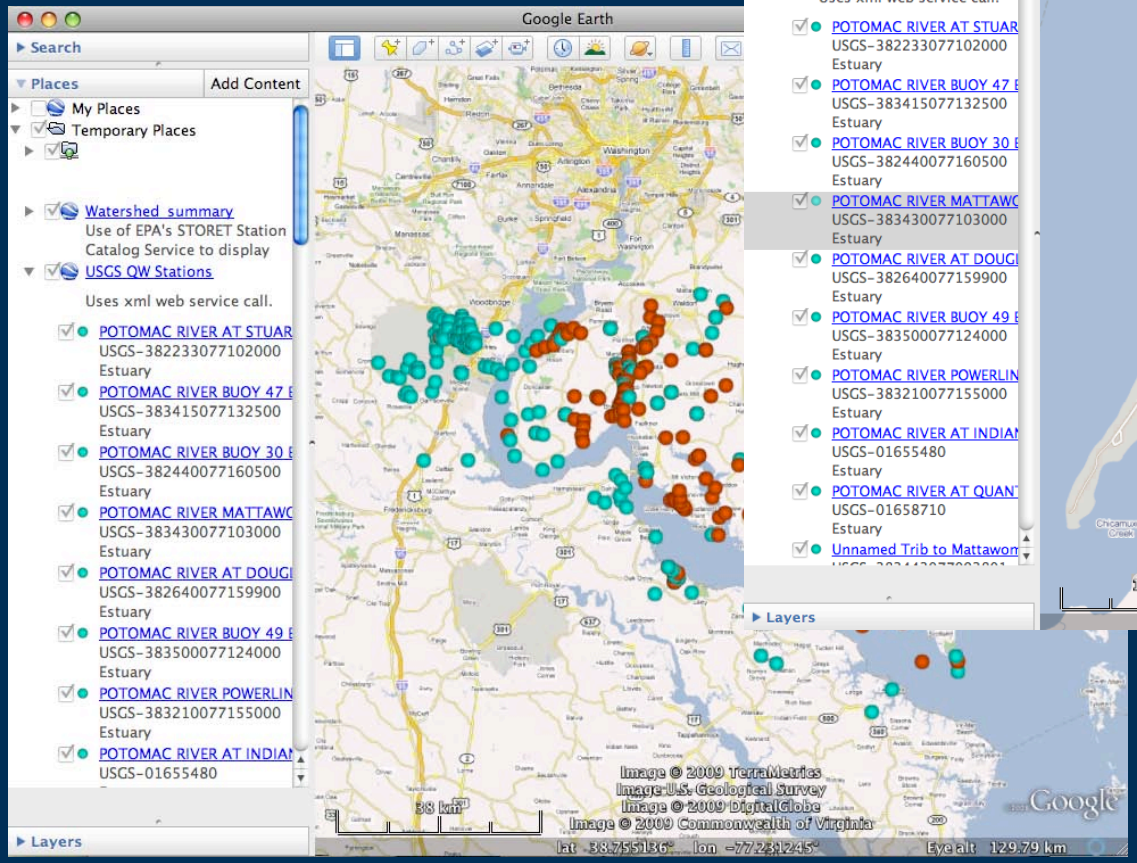
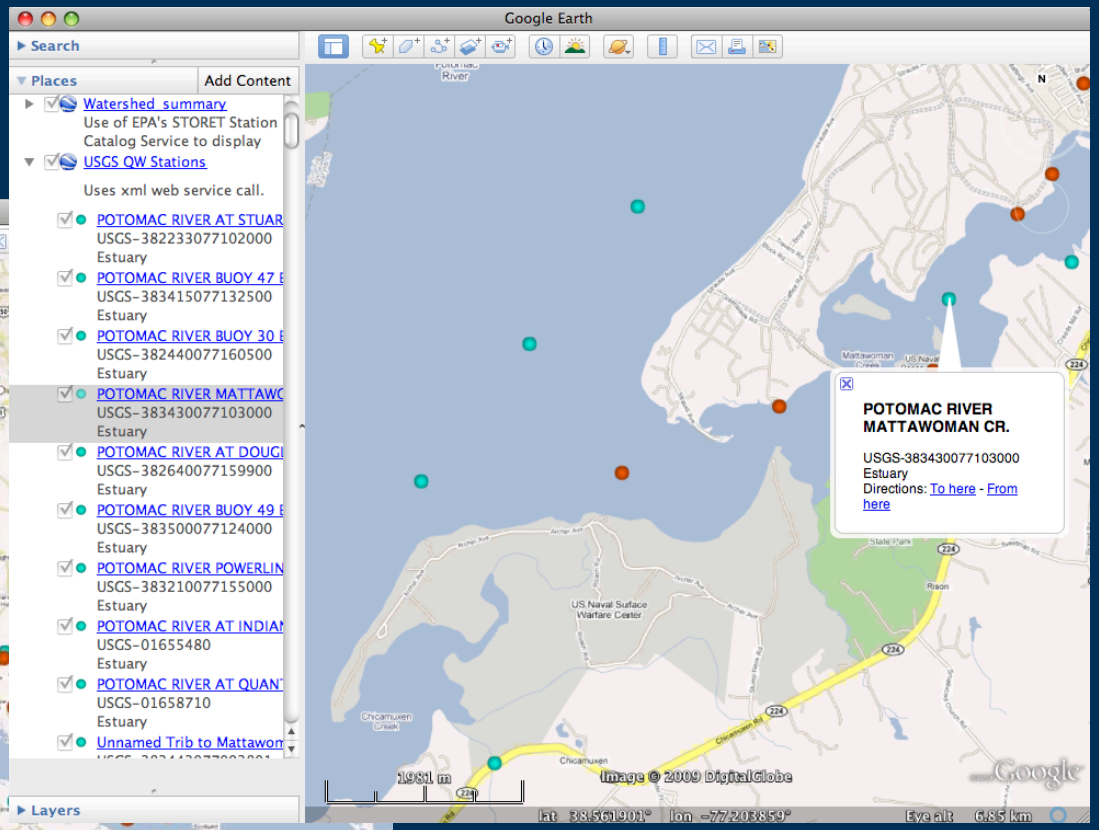
USGS / USEPA Water-Quality Data Exchange

Lower Potomac
Hydrologic Unit 02070011
161 USGS, 169 EPA stream sites





USGS EPA

150M water quality observations over last 100 yrs

State Adoption of WQX

- >30 states, 150 tribes through EPA
- All USGS WSCs
- 150M water-quality results

USGS

Future Work

- Further Integration
  - Common spatial platform (National Hydrography Dataset)
  - Common analytical method metadata (NEMI)
- Coordination continues with university community (CUAHSI) and other federal partners (IOOS) towards a data sharing capability that includes other met/hydro/oceans data types
- Map based search interface

USGS