

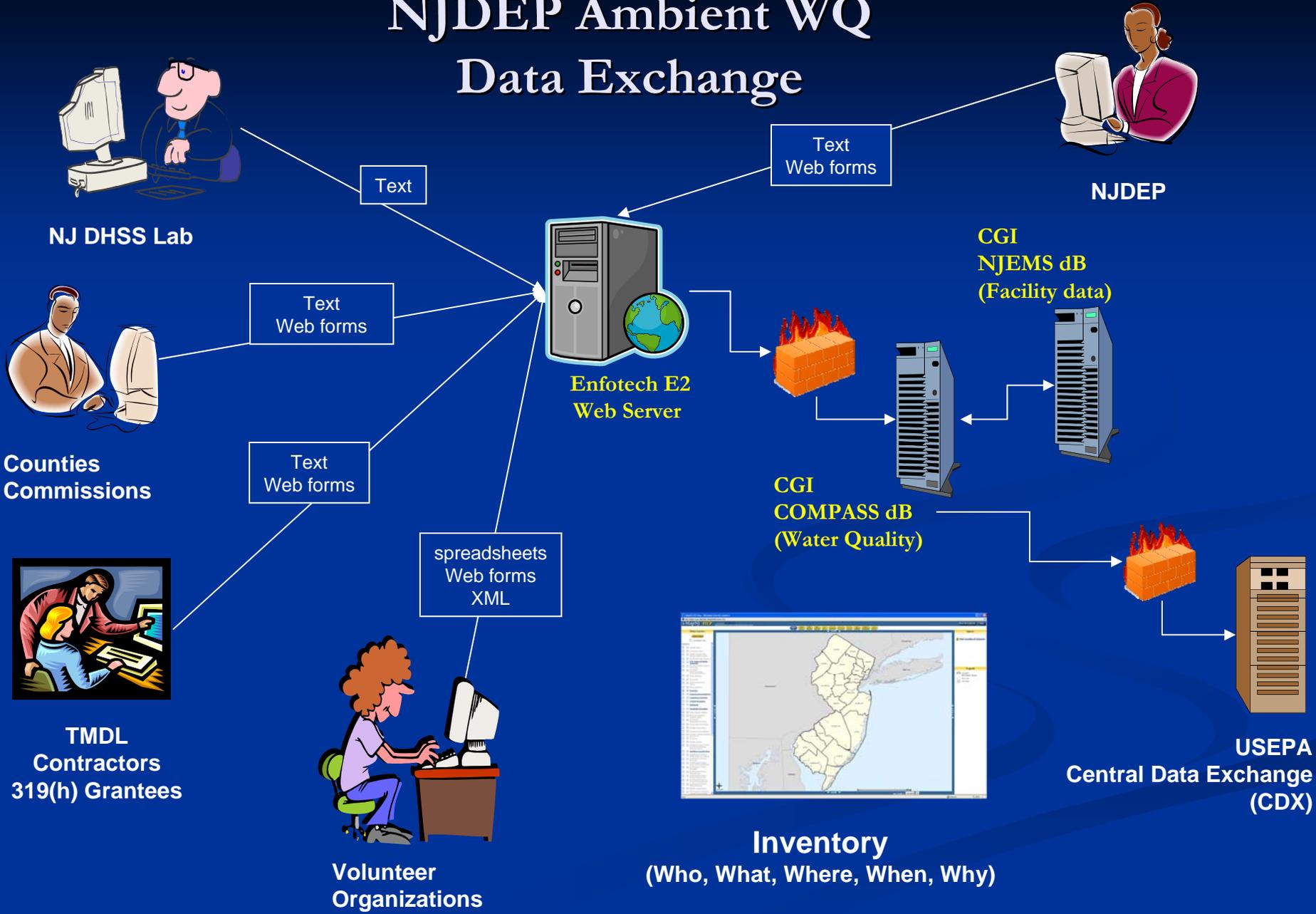


New Jersey Ambient Water Quality Data Exchange

Status Report

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NJ Water Monitoring Coordination Council
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NJDEP Ambient WQ Data Exchange



Goals



- Develop an up to date, searchable **inventory** of ambient water quality monitoring activities in New Jersey
- **Integrate** federal, state, county and local ambient water quality monitoring data into NJDEP's enterprise environmental data management system (NJEMS/COMPASS) to enable more integrated environmental decisions (305(b), 303(d), TMDLs)
- Make NJDEP's ambient water quality monitoring data readily **available** to DEP staff and the public
- **Exchange** ambient water quality monitoring data with USEPA and USGS (not just send NJDEP data to EPA)
- Funding: National Environmental Information Exchange Network (NEIEN) Grant

Data In Schedule

- User Acceptance Testing (2/2-5/31 periodic)
- “NJWMCC Day” at DEP (2/5)
- UAT resuming next Tuesday (5/25/09)
- NJ OIT Stress Testing (July 2009)
- Live and accepting data (August 2009)

UAT Participants

- NJDEP – WM&S, BFBM, BMWWM, NJGS, OS
- USGS – NJ Water Science Center
- Monmouth County Health Department
- Somerset County Health Department
- Delaware River Basin Commission
- Interstate Environmental Commission
- Meadowlands Environmental Research Institute
- Passaic River Institute/Montclair University
- NJ Water Supply Authority
- NJ Harbor Discharge Group

UAT Experience/Findings

- First days – “Not so hot”
(bugs, slow response, small files, long processing)
- System now handles **5 simultaneous users**
submitting 2000 records (stations/results) files
- Takes **15-30 minutes** to process 2000 records
- Attachments (QAPPs, photos) now work
- Still working on user roles and resubmission
(strategies, business rules and programming)

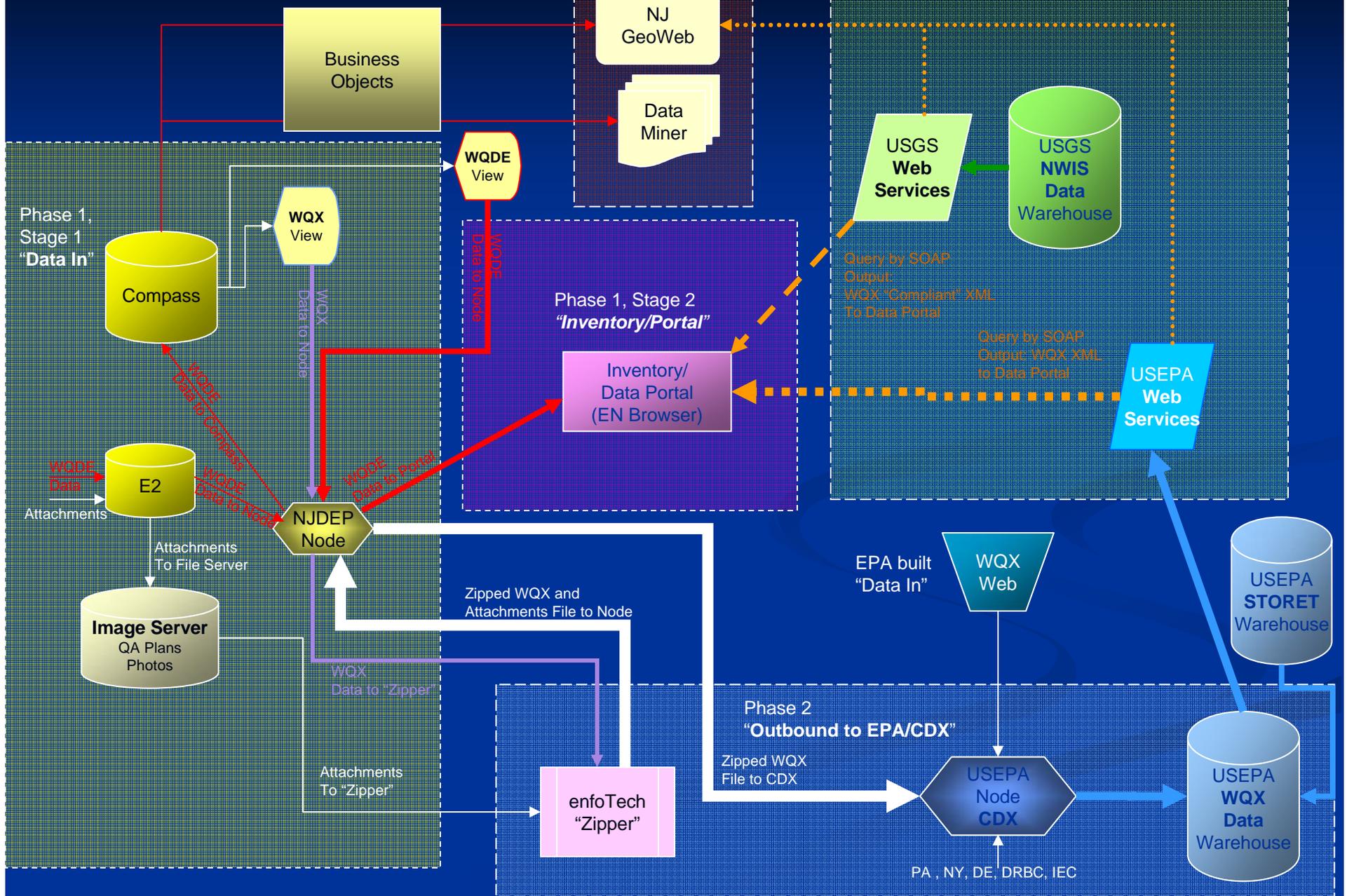
UAT Resumption Reminders

- Last chance to discover bugs and request enhancements
- Use **real** data (all types and file sizes)
- Go through **all** steps again (regression testing)
- Log issues in Issue Tracker
- Best solution is to **come to DEP**
(contractor will be on-site all testing days)

WQDE Inventory Schedule

- WQDE Inventory Beta 1 (June 2009)
 - WQDE Inventory Core components
 - USGS NWIS inbound Web Service
- WQDE Inventory Beta 2 (August 2009)
 - Bug Fixes from Beta 1
 - EPA STORET/WQX inbound Web Service
- WQDE Inventory Beta 3 (September 2009)
 - Bug fixes from Beta 2
 - Retrieve WQDE Inventory Data
- Final Deployment (October 2009)

NJDEP Ambient WQ Data Exchange



NJDEP New Hydro GIS Layer

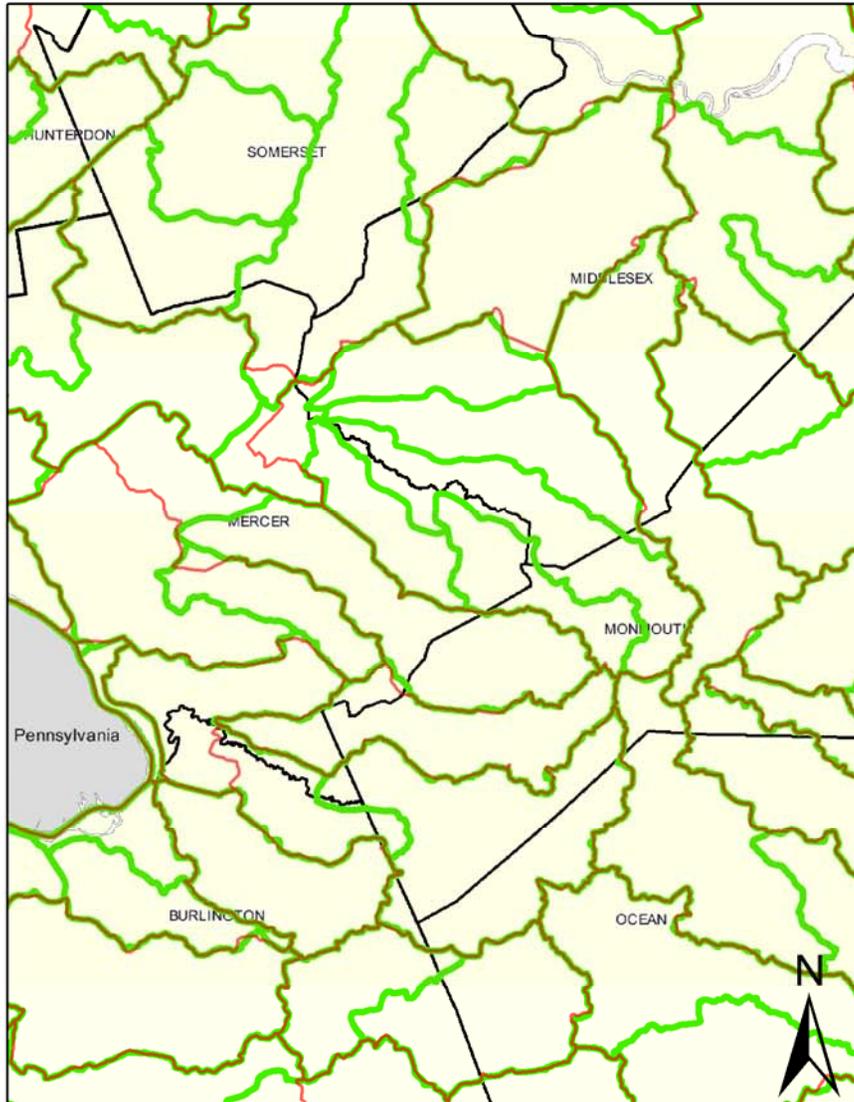
- “Old” version 1:24,000 scale from USGS “Quads”
- “New” version 1:2,400 scale from aerial photos
- New version lines up with reality
- Conflating National Hydrography Data (NHD) attributes onto new hydro
- Expected to be completed this year



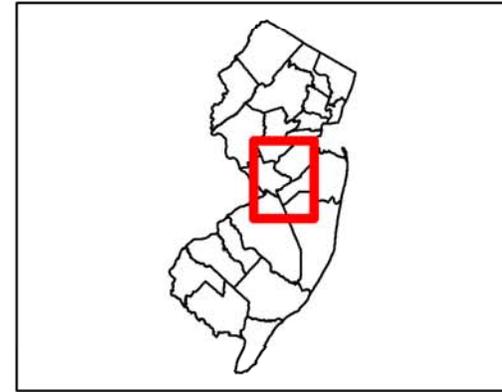
HUC 12

- 1990s USGS creates HUC11 and HUC14 for NJ
- 2009 USEPA creates HUC12 from 1:24,000 DLGs for national reporting purposes
- NJDEP works with EPA contractor to refine delineation of HUC12 boundaries based on 1:2,400 NJ hydrography and new HUC14s
- NJDEP HUC12 to replace EPA HUC12 and to be submitted to WBD and NHD

New Jersey



0 25,000 50,000 100,000 Feet



Legend

-  Watersheds by Name (DEPHUC11)
-  DEPHUC12 Clipped at State Boundary
-  Counties