



To: Distribution

From: Ernestine Bryant, STOrage and RETrieval (STORET), Technical Project Leader (TPL), SDC/SAIC

Subject: Minutes of STORET Change Control Board (CCB) Meeting

1.0 Purpose

A CCB Meeting was held on June 4, 2003 at the Systems Development Center (SDC). The purpose of the meeting was to review and address the status of the STORET Project activities, resolve project issues, and ensure that changes are within the Task Order scope and are processed in a visible and traceable manner.

2.0 Attendees

SDC

Ernestine Bryant
Stephen Smith
Blythe Norris
Joseph Wilson
Susan Wenberg

EPA

Robert King (TOPO)
Lee Manning (ATOPO)

3.0 Discussion Topics

The following sections detail the discussions of the project tasks and associated Software Incident Reports (SIRs).

3.1 Report Module

The new exports for physical and chemical results will be: Result Physical/Chemical Small Export, Result Physical/Chemical Medium Export, Result Physical/Chemical Large Export, and Result Physical/Chemical Giant Export.

Portable Data Logger (PDL) information will be added into the physical/chemical exports without disproportionately impacting performance or system requirements.

A concatenation of the first four Field Sets found in the database assigned to each Activity will be included in the Large and Giant exports.

The Result Details export, currently in production, will be left as an available choice for users until biological result exports have been created. Work on constructing biological exports will begin after completion of development of the physical/chemical exports. As a starting point, the biological exports will be based on the contents of the Small, Medium, Large, and Giant physical/chemical exports.

3.2 Central Warehouse

The MOUNTAIN/ZION instance of the Central Warehouse will be refreshed with new production data. Following this update, the Central Warehouse will contain approximately 14 million Result records.

The Central Warehouse report designs were reviewed and the following changes made:

Station Report (see Attachment A)

- The elements Spring Type Improvement, Spring Type Code, Spring Type Name, and Spring Other Name were organized together into a Spring Info group.
- The data element On Reach Ind. was moved to the RF1 Info element grouping.
- The data element Other Estuary Name was moved to the Estuary Info element group.
- The name of the data element SW/GW Indicator was changed to S/F/G Indicator and will be used to assign Stations in one of three categories: Surface Water, Facility, or Ground Water. The rules for determining these assignments will be established during future meetings.

Regular Result Report (see Attachment B)

- The data element S/F/G Indicator was added to the Basic Station Info section after Station Name, and will be used to indicate the type of Station associated with a Result. Stations will be assigned to one of three categories: Surface Water, Facility, or Ground Water. The rules for determining these assignments will be established during future meetings.

Biological Result Report (see Attachment C)

- The name of the Net Tow section was changed to Net Tow Info.
- The name of the Net Non-Tow section was changed to Net Non-Tow Info.
- The data element Fished Duration Unit was changed from being a separate element to one that is appended to the data element Fished Duration Measure.
- The data element Boat Speed Unit was changed from being a separate element to one that is appended to the data element Boat Speed.
- The data element Fished Distance Unit was changed from being a separate element to one that is appended to the data element Fished Distance.
- The data element Pass Length Unit was changed from being a separate element to one that is appended to the data element Pass Length Measure.
- The data element Energzd Time Unit was changed from being a separate element to one that is appended to the data element Total Energzd Time.
- The data element Sampling Duration Unit was changed from being a separate element to one that is appended to the data element Sampling Duration.
- The name of the Bio Result Info section was changed to Bio Group Info.
- The name of the Characteristic Group Info data element group was changed to General Group Info.
- The order of the Multi-Taxon Pop Census Info and Single Taxon Group Summary Info data element groups was reversed. The order of the data element groups in the Bio Group Info section are now as follows: General Group Info, Multi-Taxon Pop Census Info, Single Taxon Group Summary Info, Single Taxon Frequency Class Info, Single Taxon Individual Info.
- Species # will be included as part of the data element Bio Result Group Subject Taxon.

Habitat Result report (see Attachment D)

- The data element Habitat Char Desc was added to the Basic Result Info section after Characteristic Name.

- The data element S/F/G Indicator was added to the Basic Station Info section after Station Name and will be used to indicate the type of Station associated with a Result. Stations will be assigned to one of three categories: Surface Water, Facility, or Ground Water. The rules for determining these assignments will be established during future meetings.
- The data element Well Number was removed from the report.
- The data element Pipe Number was removed from the report.

All dates which are currently '01-01-0001' will be set to NULL when loading the Central Warehouse database.

Application architecture options for the Result section of the Central Warehouse were discussed (see Attachment E). Initial focus will be given to the Multiple Result Tables approach. Multiple cursors may also be used if the need is identified.

3.3 STORET version 3.0

The agenda for the Joint Requirements Planning (JRP) meeting to be held from July 29 to July 31, 2003 was discussed. The scope and possible topics of discussion reviewed during the meeting are outlined in the bullets below. S. Wenberg agreed to prepare a draft agenda. A dry-run date for the JRP was scheduled for July 18, 2003.

- The intended audience for this session will be data providers.
- Consider STORET v3.0 database to encapsulate all of Office of Water (OW).
- Representatives from OW programs that generate STORET data should be invited to attend to better match data to business rules.
- Start with an overview/demonstration of the monitoring business as it currently exists.
- Review business rules at a high level for each subject area to outline existing requirements and identify new requirements to satisfy OW needs.
- Discuss plans for a STORET database “lite” solution (i.e., web-based) to include a subset of the functionality (e.g., lat/long, sampling and results, document/graphic support).

- Discuss plans for batch data entry to add, update, and delete information possibly via an Extensible Markup Language (XML) stream.
- Possibly discuss Internet access functions.

The audience for the second JRP, to be held in September, will be the current users. This session will cover a more detailed discussion of business rules.

4.0 Action Item Summary

Number	Description	Date Issued	Status	Assignment	Date Completed
02-0020	Determine order of Station Types.	11/20/2002	Open	B. King	
02-0021	Research the possibility of an 8-character Beach ID.	12/12/2002	Closed	B. King	02/27/2003
03-0001	Add Citation IDs to the Data Entry Application v2.0 DEMOTEST.	02/27/2003	Closed	B. King	03/06/2003
03-0002	Send PDF of Server Model to B. King	02/27/2003	Closed	B. Norris	03/06/2003
03-0003	Provide sample batch files containing new functionality to B. King.	02/27/2003	Closed	B. Norris	03/06/2003
03-0004	Verify number of characters in Total Number in Group field on Single Taxon Group Summary Data Entry Window (3 characters?).	03/19/2003	Closed	S. Smith	04/16/2003
03-0005	Load Central Warehouse at EPA.	04/16/2003	Closed	J. Wilson	04/22/2003
03-0006	Provide "no rows" export of Central Warehouse.	04/16/2003	Closed	J. Wilson	04/18/2003

5.0 Next Meeting

The next meeting was not scheduled.

6.0 Distribution to EPA & SDC Interested Parties

Name	Email/Umail	Affiliation	Phone
Bob Barber	barber.robert@epa.gov	EPA	913-551-7078
Andy Battin	battin.andrew@epa.gov	EPA	202-564-0383
Ernestine Bryant	Bryante@sdc-moses.com	SAIC	703-292-6059
Kevin Christian	Christian.Kevin@epamail.epa.gov	EPA	202-566-1180
Tod Dabolt	Dabolt.Thomas@epamail.epa.gov	EPA	202-566-1186
Patrick Detscher	Patrickd@acclaimsystems.com	ASI	850-878-5101
Robin Fletcher	fletcher.robin@epa.gov	EPA	617-918-1943
Leo Gueriguian	gueriguian.leo@epa.gov	EPA	202-564-0388
Otto Gutenson	Gutenson.Otto@epamail.epa.gov	EPA	202-566-1183
Jim Harrison	harrison.jim@epa.gov	EPA	404-562-9271
Margarete Heber	Heber.Margarete@epamail.epa.gov	EPA	202-566-1191
Jim Hileman	hileman.james@epa.gov	EPA	206-553-1640
Susan Holdsworth	Holdsworth.Susan@epamail.epa.gov	EPA	202-566-1187
Bob King	King.Robert@epamail.epa.gov	EPA	202-566-1177
Karen Klima	Klima.Karen@epamail.epa.gov	EPA	202-566-1175
Paul Koska	koska.paul@epa.gov	EPA	214-665-8357
Lee Manning	Manning.Lee@epamail.epa.gov	EPA	202-566-1176
Martin Mccomb	mccomb.martin@epa.gov	EPA	303-312-6963
Cary McElhinney	Mcelhinney.cary@epa.gov	EPA	202-566-1188
Richard Paiste	Paiste.Richard@epa.gov	EPA	215-814-5739
Dan Parker	Parker.Dan@epamail.epa.gov	EPA	202-566-1182
Deb Soule	dsoule@des.state.nh.us	NH DES	603-271-8863
Stan Stephansen	stephansen.stanley@epa.gov	EPA	212-637-3322
Jerry Widdowson	Widdowson.Jerry@epamail.epa.gov	EPA	919-541-1080
Eric Wilson	Wilson.Eric@epamail.epa.gov	EPA	415-744-1964

7.0 Approval of Minutes as Submitted or Revised

Robert E. King
Task Order Project Officer

Date

ATTACHMENT A

Station Report

Warehouse Station Report Element Layout
June 4, 2003

Station Information	
<u>Org ID</u>	Elevation (w/ Units)
<u>Station ID</u>	Additional Elevation Info
<u>Station Name</u> Elevation Datum
Org Name Elevation Method
<u>Primary Type</u>	Country Name
Secondary Type	<u>State Name</u>
SW/GW Indicator	<u>County Name</u>
Well Number	Hydrologic Unit Code
Well Name	Hydrologic Unit Name
Pipe Number	RF1 Info
NAICS Code RF1 Segment Code
Spring Type Improvement RF1 Segment Name
Spring Type Code RF1 Mileage
Spring Type Name	On Reach Ind
Spring Other Name	NRCS Watershed ID
Location Point Type	Estuary Info
Point Sequence Number Primary Estuary
Point Name Secondary Estuary
Latitude/Longitude	Other Estuary Name
..... Latitude	Great Lake Name
..... Longitude	Ocean Name
Lat/Long Info	Natv American Land Name
..... Horizontal Datum	FRS Key Identifier
..... Geopositioning Method	Station Document/Graphic Name
..... Map Scale	

Notes:

Underlined Elements are selected by Default

Italics Elements are New in v2.0

Bold Elements were added during v2.0 design meetings

ATTACHMENT B

Regular Result Report

Warehouse Result Report Element Layout - Regular Results
June 4, 2003

Basic Org Info
Org ID
Org Name

Basic Station Info
Station ID
Station Name
Station Location Info
..... Station Latitude
..... Station Longitude
..... State
..... County
..... HUC

Station Visit Info
Visit Num
Visit Start
Visit Stop
Trip ID
Trip Name

Basic Activity Info
Activity ID
Activity Start
Activity Stop
Activity Medium
Activity Matrix
Activity Type
Activity Category-Rep#
Activity Intent
Community Sampled
Subject Taxon
Biopart
Field Set

Actual Activity Location Info
Actual Location Point Type
Actual Point Sequence #
Actual Point Name
Actual Activity Latitude
Actual Activity Longitude
Well Number
Pipe Number
Additional Activity Location Info
..... Geopositioning Method
..... Horizontal Datum
..... **Map Scale**

Activity Depth Info
Activity Depth
Activity Depth Unit
Activity Upper Depth
Activity Rel Depth
Activity Lower Depth
Up'r Lwr Depth Unit

Activity Meta Data
Sample Collection ID
Field Gear ID
Field Gear Config ID
Sample Pres ID

Basic Result Info
Characteristic Name
Sample Fraction
Value Type
Statistic Type
Result Value as Text
Result Value as Number
Units
Result Comment
Result Free Text
Weight Basis
Temperature Basis
Duration Basis
Particle Size Basis
Distance Measured From
Distance Measured To

Analytical Proc. Info
Analytical Proc. Acronym
Analytical Proc. ID
Additional Anal Proc Info
..... Detection Limit
..... Detection Limit Descript
..... Lower Quantification Limit
..... Upper Quantification Limit

Basic Lab Info
Lab Remark
Dilution Ind
Recovery Ind
Correction Ind
Other Lab Info
..... Lab ID
..... Lab Name
..... Lab Cert.
..... Lab Batch ID
..... Analysis Date

Result QA Info
No. of Reps.
Precision
Bias
Conf Level
Correction for Bias Ind

Notes:

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ATTACHMENT C

Biological Result Report

Warehouse Result Report Element Layout - Biological Results
June 4, 2003

Net Tow
Trawl Start Point Name
Trawl Start Latitude
Trawl Start Longitude
Trawl Start Depth (w/ units)
Trawl Stop Point Name
Trawl Stop Latitude
Trawl Stop Longitude
Trawl Stop Depth (w/ units)
Fished Duration Measure
Fished Duration Unit
Boat Speed
Boat Speed Unit
Fished Distance
Fished Distance Unit
Rel. Current Dir.
Rel. Wind Dir.
Trawl Comment

Basic Electroshock Info
Voltage Measure
Current Type Code
Amperage Measure
Pass Count
Pass Length Measure
Pass Length Unit
Pulse Rate Measure
Electroshock Comment
Total Energzd Time
Energzd Time Unit

Net Non-Tow
Sampling Duration
Sampling Duration Unit
Orientation to Current
Rel. Current Dir.
Rel. Wind Dir.
Trap Net Comment

Bio Result Info
Characteristic Group Info
..... Bio Result Group ID
..... Bio Result Group Type
..... Bio Result Group Subject Taxon
..... Bio Result Group Desc.
Single Taxon Group Summary Info
..... Number in Group
..... Group Count Type
Multi-Taxon Pop. Census Info
..... Feeding Group
..... Pollution Tolerance
..... Trophic Level
..... *Habit*
..... *Volitinism*
..... Cell Shape
..... Cell Form
Single Taxon Frequency Class Info
..... Phys/Bio Ind
..... Bio Result Group ID (sex)
..... Bio Result Group ID (lifestage)
..... Bio Result Group Class Var
..... Class Prim. Desc.
..... Class Sec. Desc
..... Class Lower Bound
..... Class Upper Bound
..... Units
Single Taxon Individual Info
..... Number in Group
..... Bio Individual Number

Notes:

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ATTACHMENT D

Habitat Result Report

Warehouse Result Report Element Layout - Habitat Results
June 4, 2003

Basic Org Info
Org ID
Org Name

Basic Station Info
Station ID
Station Name
Station Location Info
..... Station Latitude
..... Station Longitude
..... State
..... County
..... HUC

Station Visit Info
Visit Num
Visit Start
Visit Stop
Trip ID
Trip Name

Basic Activity Info
Activity ID
Activity Start
Activity Stop
Activity Type
Field Set

Actual Activity Location Info
Actual Location Point Type
Actual Point Sequence #
Actual Point Name
Actual Activity Latitude
Actual Activity Longitude
Well Number
Pipe Number
Additional Activity Location Info
..... Geopositioning Method
..... Horizontal Datum
..... **Map Scale**

Basic Result Info
Characteristic Name
Sample Fraction
Value Type
Statistic Type
Result Value as Text
Result Value as Number
Units
Result Comment
Result Free Text
Weight Basis
Temperature Basis
Duration Basis
Distance Measured From
Distance Measured To

Analytical Proc. Info
Analytical Proc. Acronym
Analytical Proc. ID
Additional Anal Proc Info
..... Detection Limit
..... Detection Limit Descript
..... Lower Quantification Limit
..... Upper Quantification Limit

Basic Lab Info
Lab Remark
Dilution Ind
Recovery Ind
Correction Ind
Other Lab Info
..... Lab ID
..... Lab Name
..... Lab Cert.
..... Lab Batch ID
..... Analysis Date

Result QA Info
No. of Reps.
Precision
Bias
Conf Level
Correction for Bias Ind

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ATTACHMENT E

Central Warehouse Result Architecture Options

Central Warehouse Result Architecture Options

June 4, 2003



