



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 July 11, 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

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 Administrative

Compact Disk (CD) is the preferred media for deliverables.

The term “regular result” has been used frequently in reference with most of the STORET systems. To avoid possible ambiguity with the use of this term, it was agreed that “regular results” would refer to Physical and Chemical results associated with a non-biological medium; this excludes Habitat Assessments and results obtained with an Automated Data Logger.

3.2 Report Module

S. Smith will coordinate with K. Christian to ensure that the `f_char_name` function is being included in database migrations.

The STORET Report Module Main Menu will be changed to include the sub-version number (e.g., 2.0.1) associated with enhancement releases.

3.3 Central Warehouse

The Central Warehouse timeline (Attachment A) was reviewed in detail and the following revisions were made:

- C Development of the Activity-based retrieval functionality will not be included with the v2.0 release.
- C Development of the ZIP file functionality for compressing reports before transmission will not be included with the v2.0 release.

Several questions concerning the details of the application design were presented and the following decisions were made:

- C Report element names will not include periods when abbreviations are used.
- C “Num” will be used as an abbreviation for “Number” instead of the number sign (i.e., “#”).
- C Activity Medium selection will be made available on the Regular Result search pages.
- C Activity Intent and Community Sampled selections will be made available on the Biological Result search pages.
- C A new Station Type display order was established for the Station search page (see Attachment B).
- C The Surface, Facility, Ground (SFG) Indicator was changed to the Surface, Ground, Other (SGO) Indicator, and each of the Primary Station Types were mapped to one of these three values (see Attachment B).
- C Oracle Materialized Views will be used to improve count performance whenever possible.

Portable Data Logger data will be discussed at the next Central Warehouse meeting in addition to updated screen designs of all search pages.

3.4 STORET Data Entry

Regarding SIR 1493, the group discussed what Medium value should be used when a Medium has not been selected for a Field Calibration Check Activity. No determination was made.

The following system changes were noted. Issues of critical impact to the user community will most likely initiate the next development cycle.

- C Do not create a sample row in the TSRSMPLE table when a Portable Data Logger (PDL) activity is created, and create a script to remove existing superfluous sample rows.
- C When pressing Save without changing the count, ensure that the Value Measure is not set to zero on Single Taxon Frequency Class Biological results. Create a script to set the Value Measure to the Value Text value for numeric, non-zero entries.
- C Ensure that Actual Activity Location (AAL) rows are not created for “Child” (i.e., Sample from Sample and Composite Sample) Activities, and create a script to remove existing superfluous AAL rows.
- C Display the “r” in Number for the field prompt Replicate Number on RG17.
- C Change Batch to allow duplicates to be processed, and give a warning message in the log file to inform the user of duplicate conditions.

The XP operating system’s default display covers some of the buttons at the bottom of the screen. A change to work around this should be considered for a future release.

3.5 STORET 2.0 Web Views

The STORET v2.0 Web Views were reviewed and decisions made as follows.

Activity Details View:

- C Show all activities to include Child samples.
- C Activity Latitude/Longitude - populate Child sample records as follows:

- For created from sample, use the Parent's TSRAAL latitude/longitude. If the Parent is also a Child sample, then leave it blank.
- For composite with Parents, use the Station's point of record.

C Include a Parent column for Child sample records as follows:

- For created from sample, list the single Parent's Activity ID and Replicate Number in the following format: ID/REP# (e.g., Parent101/2). If the Replicate Number is 0, then suppress the /REP# component (e.g., Parent101).
- For composite with Parents, list up to four Parent Activity IDs and Replicate Numbers in the following format: ID/REP# (e.g. Parent101/2). Use a hyphen to separate each Parent (e.g., Parent101/2-Parent102/3). If the Replicate Number is 0, then suppress the /REP# component (e.g., Parent101-Parent102).

Result Views:

C The Regular Results view will be split into non-PDL and PDL views.

C The Biological Results view will be split into separate views for Individual/Tissue results, Single Taxon Individual (STI) group results, and non-STI group results.

C The names of the views are as follows:

- ALL_ACTIVITY_DETAILS.
- ALL_BIO_GROUP_NON_STI_RESULTS.
- ALL_BIO_GROUP_STI_RESULTS.
- ALL_BIO_TISSUE_RESULTS.
- ALL_HABITAT_RESULTS.
- ALL_PROJECT_DETAILS.
- ALL_REGULAR_PDL_RESULTS.
- ALL_REGULAR_RESULTS.
- ALL_STATION_DETAILS.
- ALL_STATION_VISIT_DETAILS.

C Activity Latitude/Longitude - populate Child sample records as follows:

- For created from sample, use the Parent's TSRAAL latitude/longitude. If the Parent is also a Child sample, then leave it blank.

- For composite with Parents, use the Station’s point of record.

C Include a Parent column for Child sample records as follows:

- For created from sample, list the single Parent’s Activity ID and Replicate Number in the following format: ID/REP# (e.g., Parent101/2). If the Replicate Number is 0, then suppress the /REP# component (e.g., Parent101).
- For composite with Parents, list up to four of the Parent Activity IDs and Replicate Numbers in the following format: ID/REP# (e.g. Parent101/2). Use a hyphen (-) to separate each Parent (e.g., Parent101/2-Parent102/3). If the Replicate Number is 0, then suppress the /REP# component (e.g., Parent101-Parent102).

For all views that include Binary Large Object (BLOB) document/graphic title, add a column for its associated BLOB Type.

All non-applicable columns will be removed in the biological result views (see Attachment C).

4.0 Action Item Summary

Number	Description	Date Issued	Status	Assignment	Date Completed
02-0020	Determine order of Station Types.	11/20/2002	Closed	B. King	07/11/2003
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

Number	Description	Date Issued	Status	Assignment	Date Completed
03-0006	Provide "no rows" export of Central Warehouse.	04/16/2003	Closed	J. Wilson	04/18/2003
03-0007	Develop Surface Water/Facility/Ground Water (SFG) Indicator assignment rules.	06/26/2003	Open	B. King	
03-0008	Contact Leo Gueriguian regarding invitation letter distribution.	06/26/2003	Closed	S. Wenberg	07/11/2003
03-0009	Contact K. Christian about f char name function.	07/11/2003	Open	S. Smith	

5.0 Next Meeting

The next meeting was not scheduled.

6.0 Distribution to EPA & SDC Interested Parties

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7.0 Approval of Minutes as Submitted or Revised

Robert E. King
Task Order Project Officer

Date

ATTACHMENT A

Central Warehouse Timeline

STORET v2.0 Central Warehouse Timeline

June 30-July 3

- C Update Station Extract, Transfer, and Load (ETL).
- C Update Regular Result ETL.

July 7-July 11

- C Begin ETL for Biological Results.
- C Begin ETL for Habitat Results.
- C Upgrade Station report generation software.
- C Upgrade Regular Result report generation software.

July 14-July 18

- C Finish Biological Results ETL.
- C Finish Habitat Results ETL.
- C Create ETL for new Biological data dimensions.
- C Begin developing Activity-based retrieval functionality.
- C Peer review of new ETL scripts.

July 21-July 25

- C Establish v2.0 ETL test environment (10 million records).
- C Integration Test (IT) test ETL scripts; produce Web application IT environment.
- C Upgrade User Interface (UI) to work with Biological Results.
- C Upgrade UI to work with Habitat Results.
- C Finish developing Activity-based retrieval functionality.

July 28-Aug 1

- C Run ETL scripts at EPA on Kevin's machine.
- C Create Biological Results report generation software.
- C Create Habitat Results report generation software.

Aug 4-Aug 8

- C Begin Biological Results UI enhancements.
- C Begin Habitat Results UI enhancements.
- C Create Help for Stations and Regular Results.
- C Create the ability to produce ZIP downloads of reports.

Aug 11-Aug 15

- C Begin Help for Biological and Habitat Results.
- C Begin Performance Tuning.
- C Finish Biological Results UI enhancements.

- C Finish Habitat Results UI enhancements.
- C Peer Review application software.

Aug 18-Aug 22

- C Finish Help for Biological and Habitat Results.
- C Finish Performance Tuning.
- C First week of Application Integration Testing.
- C Establish IT Baseline.

Aug 25-Aug 29

- C Second week of Application Integration Testing.
- C Final Installation Integration Testing.

Sept 1-Sept 5

- C Establish Final Baseline.
- C Quality Assurance (QA) activities.
- C Package Deliverable.

Sept 5 - Product Delivery.

Sept 8-Sept 12

- C Migrate Central Warehouse to Research Triangle Park (RTP) – Kevin.
- C Deploy Warehouse Web Application – Kevin.
- C Final Performance Testing and Tuning on Production Environment.

ATTACHMENT B

Station Type Display Order

PRIMARY TYPE	OLD SORT ORDER	NEW SORT ORDER	SGO VALUE
River/Stream	1	1	S
Lake	3	2	S
Great Lake		3	S
Well	4	4	G
Facility	5	5	O
CERCLA Superfund Site		6	O
Ocean	6	7	S
Estuary	2	8	S
Channelized stream	15	9	S
Canal	7	10	S
Spring	8	11	G
Cave		12	G
Wetland	9	13	S
Constructed Wetland		14	S
Reservoir	10	15	S
Riverine impoundment	18	16	S
Land	12	17	O
Land runoff	17	18	O
Landfill	11	19	O
Waste pit		20	O
Storm sewer	14	21	O
Waste sewer		22	O
Combined sewer		23	O
Mine/mine discharge	13	24	O
Gallery	16	25	G

ATTACHMENT C

Columns Removed from Biological Views

ALL_BIO_TISSUE_RESULTS (Individual and Tissue)

C GROUP_DESCRIPTOR_SEX.
C GROUP_DESCRIPTOR_LIFESTAGE.
C INDIVIDUAL_NUMBER.
C FEEDING_GROUP.
C POLLUTION_TOLERANCE.
C TROPHIC_LEVEL.
C HABIT.
C VOLTINISM.
C CELL_SHAPE.
C CELL_FORM.
C BIO_GROUP_ID.
C BIO_GROUP_TYPE.
C BIO_GROUP_SUBJECT_TXN.
C PHYS_BIO_INDICATOR.
C BIO_GROUP_DESCRIPTION.
C COMMON_CLASS_DESCRIPTOR.
C PRIMARY_CLASS_DESCRIPTOR.
C SECONDARY_CLASS_DESCRIPTOR.
C NUMBER_IN_GROUP.
C BIO_GROUP_COUNT_TYPE.

ALL_BIO_GROUP_NON_STI_RESULTS (Bio Groups except Single Taxon Individuals)

C INDIVIDUAL_NUMBER.
C SAMPLE_FRACTION_TYPE.
C TEMPERATURE_BASIS_LEVEL.
C DURATION_BASIS.
C DISTANCE_MEASURE_FROM.
C DISTANCE_MEASURE_TO.
C PARTICLE_SIZE.
C REPLICATE_ANALYSIS_COUNT.
C PRECISION.
C BIAS.
C CONF_LVL_CORR_BIAS.

ALL_BIO_GROUP_STI_RESULTS (Bio Group Single Taxon Individuals)

C GROUP_DESCRIPTOR_SEX.
C GROUP_DESCRIPTOR_LIFESTAGE.
C SAMPLE_FRACTION_TYPE.

C STATISTIC_TYPE.
C TEMPERATURE_BASIS_LEVEL.
C DURATION_BASIS.
C FEEDING_GROUP.
C POLLUTION_TOLERANCE.
C TROPHIC_LEVEL.
C HABIT.
C VOLTINISM.
C CELL_SHAPE.
C CELL_FORM.
C LAB_ID.
C LAB_NAME.
C LAB_CERTIFIED.
C LAB_BATCH_ID.
C ANALYSIS_DATE.
C ANALYSIS_TIME.
C ANALYSIS_TIME_ZONE.
C LOWER_QUANTITATION_LIMIT.
C UPPER_QUANTITATION_LIMIT.
C DETECTION_LIMIT.
C DETECTION_LIMIT_DESCRIPTION.
C LAB_REMARK.
C DISTANCE_MEASURE_FROM.
C DISTANCE_MEASURE_TO.
C PARTICLE_SIZE.
C REPLICATE_ANALYSIS_COUNT.
C PRECISION.
C CONFIDENCE_LEVEL.
C DILUTION_INDICATOR.
C RECOVERY_INDICATOR.
C CORRECTION_INDICATOR.
C COMMON_CLASS_DESCRIPTOR.
C PRIMARY_CLASS_DESCRIPTOR.
C SECONDARY_CLASS_DESCRIPTOR.
C LOWER_BOUND_AMOUNT.
C UPPER_BOUND_AMOUNT.
C BIO_RCI_UNITS.
C BIAS.
C CONF_LVL_CORR_BIAS.