

**Exhibit 300: Capital Asset Plan and Business Case Summary****Part I: Summary Information And Justification (All Capital Assets)****Section A: Overview (All Capital Assets)**

1. Date of Submission: 4/10/2009
2. Agency: Environmental Protection Agency
3. Bureau: Office Of Water
4. Name of this Capital Asset: BY2010 Storage and Retrieval Information System (STORET)
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 020-00-01-12-01-1040-00
6. What kind of investment will this be in FY 2010? (Please NOTE: Investments moving to O&M in FY 2010, with Planning/Acquisition activities prior to FY 2010 should not select O&M. These investments should indicate their current status.) Operations and Maintenance
7. What was the first budget year this investment was submitted to OMB? FY2001 or earlier

8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap:

Under the Clean Water Act (CWA) the responsibility for monitoring the ambient surface and ground waters of the Nation is passed directly to the States/Territories/Tribes. It is EPA's responsibility to ensure that these Organizations operate monitoring programs robust enough to accurately characterize the health of their surface and ground waters, and provide water quality data of sufficient quality to support cost-effective implementation of Clean Water Act Programs. The STORET System provides this accessible, complete, comprehensive, and consistent national picture of the surface and groundwater quality of the United States allowing EPA and our customers to use the information to develop products and provide overall information on program outcomes in the water. EPA asks that data from these monitoring programs, all of which are partially funded with EPA grant monies, be passed to the Agency and stored in the STORET Data Warehouse for EPA and public access. These data support the strategic plan as well the PART measures of program effectiveness. In addition the STORET System supports core Office of Water programs including the issuance of water quality based permits, water quality assessments, total maximum daily loads, and water quality criteria development. STORET enhances EPA's ability to promote efficiencies in monitoring investments by providing a central access to water quality monitoring information.

The STORET System components.

- 1) Data Warehouse- serves as a repository for data collected by EPA. STORET contains data from approximately 300 organizations including 47 States. EPA has been focusing on making 70+ million data points in the STORET Data warehouse more accessible via online data reports, web services, and new tools.
- 2) Water Quality Exchange (WQX) uses standardized data exchange schemas along with technology to load/enter/validate data into the Data warehouse. WQX provides the means for direct computer-to-computer data exchange. WQX leverages the agency architecture and other IT and non-IT investments, including the Central Data Exchange (CDX), the Substance Registry System, and the Exchange Network Grant Program. WQX also allows EPA to better integrate water monitoring data with other Federal Agencies (i.e. USGS).
- 3) WQX Web Tool use a web portal access to standardize data exchange schemas for loading/entering/validating data into the Data warehouse. The Web Tool provides a User-Web to computer data exchange.

9. Did the Agency's Executive/Investment Committee approve this request? Yes
- a. If "yes," what was the date of this approval? 3/27/2008
10. Did the Project Manager review this Exhibit? Yes
11. Contact information of Program/Project Manager?

Name

Phone Number

Email

a. What is the current FAC-P/PM (for civilian agencies) or DAWIA (for defense agencies) certification level of the program/project manager?

b. When was the Program/Project Manager Assigned?

c. What date did the Program/Project Manager receive the FAC-P/PM certification? If the certification has not been issued, what is the anticipated date for certification?

12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project? Yes

a. Will this investment include electronic assets (including computers)? Yes

b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only) No

1. If "yes," is an ESPC or UESC being used to help fund this investment?

2. If "yes," will this investment meet sustainable design principles?

3. If "yes," is it designed to be 30% more energy efficient than relevant code?

13. Does this investment directly support one of the PMA initiatives? Yes

If "yes," check all that apply:

Expanded E-Government

a. Briefly and specifically describe for each selected how this asset directly supports the identified initiative(s)? (e.g. If E-Gov is selected, is it an approved shared service provider or the managing partner?)

The STORET investment, in particular the improvement made through WQX, has significantly reduced the burden on states and tribes in sharing data with each other, the public, and with the federal government. The data standards behind WQX were a joint effort between EPA and the states to establish a common method for sharing water quality monitoring data. EPA has expanded this data sharing collaboration by working with USGS on developing common methods for sharing water data via the WQX schema.

14. Does this investment support a program assessed using the Program Assessment Rating Tool (PART)? (For more information about the PART, visit [www.whitehouse.gov/omb/part](http://www.whitehouse.gov/omb/part).) Yes

a. If "yes," does this investment address a weakness found during a PART review? Yes

b. If "yes," what is the name of the PARTed program? 10004380 - Surface Water Protection

c. If "yes," what rating did the PART receive? Moderately Effective

15. Is this investment for information technology? Yes

If the answer to Question 15 is "Yes," complete questions 16-23 below. If the answer is "No," do not answer questions 16-23.

For information technology investments only:

16. What is the level of the IT Project? (per CIO Council PM Guidance) Level 2

17. In addition to the answer in 11(a), what project management qualifications does the Project Manager have? (per CIO Council PM Guidance)

18. Is this investment or any project(s) within this investment identified as "high risk" on the Q4 - FY 2008 agency high risk report (per OMB Memorandum M-05-23) No

19. Is this a financial management system? No

a. If "yes," does this investment address a FFMI compliance area?

1. If "yes," which compliance area:

2. If "no," what does it address?

b. If "yes," please identify the system name(s) and system acronym(s) as reported in the most recent financial systems inventory update required by Circular A-11 section 52

20. What is the percentage breakout for the total FY2010 funding request for the following? (This should total 100%)

Hardware	20
Software	10
Services	70
Other	0

21. If this project produces information dissemination products for the public, are these products published to the Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities? Yes

22. Contact information of individual responsible for privacy related questions:

Name

Phone Number

Title

E-mail

23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval? Yes

Question 24 must be answered by all Investments:

24. Does this investment directly support one of the GAO High Risk Areas? No

**Section B: Summary of Spending (All Capital Assets)**

1. Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent budget authority in millions, and are rounded to three decimal places. Federal personnel costs should be included only in the row designated "Government FTE Cost," and should be excluded from the amounts shown for "Planning," "Full Acquisition," and "Operation/Maintenance." The "TOTAL" estimated annual cost of the investment is the sum of costs for "Planning," "Full Acquisition," and "Operation/Maintenance." For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. The costs associated with the entire life-cycle of the investment should be included in this report.

Table 1: SUMMARY OF SPENDING FOR PROJECT PHASES (REPORTED IN MILLIONS)									
(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)									
	PY-1 and earlier	PY 2008	CY 2009	BY 2010	BY+1 2011	BY+2 2012	BY+3 2013	BY+4 and beyond	Total
Planning:	0.52	0	0	0					
Acquisition:	6.16	0.1	0	0					
Subtotal Planning & Acquisition:	6.68	0.1	0	0					
Operations & Maintenance:	13.27	0.399	0.743	0.743					
TOTAL:	19.95	0.499	0.743	0.743					
<b>Government FTE Costs should not be included in the amounts provided above.</b>									
Government FTE Costs	3.5	0.459	0.405	0.42					
Number of FTE represented by Costs:	35	4	3	3					

Note: For the multi-agency investments, this table should include all funding (both managing partner and partner agencies). Government FTE Costs should not be included as part of the TOTAL represented.

2. Will this project require the agency to hire additional FTE's? No

a. If "yes," How many and in what year?

3. If the summary of spending has changed from the FY2009 President's budget request, briefly explain those changes:

EPA also analyzed the amount of funding that would be required to keep STORET operational. Per EPA's high-level (Deputy Assistant Administrator) discussions with OMB, and through the improvements that have been made to STORET in 2007, EPA has received final approval to increase the STORET budget to a level that would allow for STORET to be maintained in September 2008.

**Section C: Acquisition/Contract Strategy (All Capital Assets)**

1. Complete the table for all (including all non-Federal) contracts and/or task orders currently in place or planned for this investment. Total Value should include all option years for each contract. Contracts and/or task orders completed do not need to be included.

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Contracts/Task Orders Table:											* Costs in millions	
Contract or Task Order Number	Type of Contract/ Task Order (In accordance with FAR Part 16)	Has the contract been awarded (Y/N)	If so what is the date of the award? If not, what is the planned award date?	Start date of Contract/ Task Order	End date of Contract/ Task Order	Total Value of Contract/ Task Order (\$M)	Is this an Interagency Acquisition ? (Y/N)	Is it performance based? (Y/N)	Competitively awarded? (Y/N)	What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A)	Is EVM in the contract? (Y/N)	Does the contract include the required security & privacy clauses? (Y/N)
EPA Mission Support Contract (ITS-ESE) TO 50	Cost Plus Performance Fee	Yes	10/2/2006	10/1/2006	7/1/2010	3.6	No	Yes	Yes	NA	Yes	Yes

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

3. Do the contracts ensure Section 508 compliance? Yes

a. Explain why not or how this is being done? The application is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually. Keyboard shortcuts for functions, navigation and help. The ITS-ESE contract follows the accessibility guidelines outlined by EPA.

4. Is there an acquisition plan which reflects the requirements of FAR Subpart 7.1 and has been approved in accordance with agency requirements? Yes

a. If "yes," what is the date? 4/15/2009

1. Is it Current? Yes

b. If "no," will an acquisition plan be developed? Yes

1. If "no," briefly explain why: Yes, the Office of Water will develop an IT Acquisition plan which shall include SDWIS / STORET by December 25, 2008.

**Section D: Performance Information (All Capital Assets)**

In order to successfully address this area of the exhibit 300, performance goals must be provided for the agency and be linked to the annual performance plan. The investment must discuss the agency's mission and strategic goals, and performance measures (indicators) must be provided. These goals need to map to the gap in the agency's strategic goals and objectives this investment is designed to fill. They are the internal and external performance benefits this investment is expected to deliver to the agency (e.g., improve efficiency by 60 percent, increase citizen participation by 300 percent a year to achieve an overall citizen participation rate of 75 percent by FY 2xxx, etc.). The goals must be clearly measurable investment outcomes, and if applicable, investment outputs. They do not include the completion date of the module, milestones, or investment, or general goals, such as, significant, better, improved that do not have a quantitative or qualitative measure.

Agencies must use the following table to report performance goals and measures for the major investment and use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Map all Measurement Indicators to the corresponding "Measurement Area" and "Measurement Grouping" identified in the PRM. There should be at least one Measurement Indicator for each of the four different Measurement Areas (for each fiscal year). The PRM is available at [www.egov.gov](http://www.egov.gov). The table can be extended to include performance measures for years beyond the next President's Budget.

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2008	Goal 2: Clean and Safe Water	Customer Results	Customer Benefit	Customer Training	# of trainings given.	6	7	CTD 4 trainings
2008	Goal 2: Clean and Safe Water	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	# Tribal Monitoring Stations with Data. Supports the tribal target of EPAs Strategic Plan SubObjective 2.2.1 which measures improved water quality at tribal monitoring stations for 7 core water quality parameters.	856	1200	Report 09/30/2008
2008	Goal 2: Clean and Safe Water	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	# Tribes Submitting Data. Supports the tribal target of EPAs Strategic Plan SubObjective 2.2.1 which measures improved water quality at tribal monitoring stations for 7 core water quality parameters.	27	50	Report 9/30/2008

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2008	Goal 2: Clean and Safe Water	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	# 8-digit Watersheds with Data. Supports the watershed target of EPAs Strategic Plan SubObjective 2.2.1 which measures improved water quality on a watershed basis.	1836	1950	Report 9/30/2008
2008	Goal 2: Clean and Safe Water	Processes and Activities	Cycle Time and Timeliness	Cycle Time	Amount of time between when a user submits data and when those data are loaded to the warehouse	7	4	7 days (best performance achievable during our current transition phase from distributed STORET to WQX)
2008	Goal 2: Clean and Safe Water	Technology	Effectiveness	User Satisfaction	# of states/tribes transitioned to WQX and are submitting data	9	20	CTD 14 states/tribes
2008	Goal 2: Clean and Safe Water	Technology	Information and Data	External Data Sharing	# data partners that incorporate data via the web services to support the data partners core business functions, or to share data with the public.	0	2	CTD 2 data exchange partners
2009	Goal 2: Clean and Safe Water	Customer Results	Customer Benefit	Customer Training	# of trainings given.	6	6	Report 09/30/2009
2009	Goal 2: Clean and Safe Water	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	# Tribal Monitoring Stations with Data. Supports the tribal target of EPAs Strategic Plan SubObjective 2.2.1 which measures improved water quality at tribal monitoring stations for 7 core water quality parameters.	2008 Actuals	20% Increase	Report 09/30/2009
2009	Goal 2: Clean and Safe Water	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	# Tribes Submitting Data. Supports the tribal target of EPAs Strategic Plan SubObjective 2.2.1 which measures improved water quality at tribal monitoring stations for 7 core water quality parameters.	2008 Actuals	20% Increase	Report 09/30/2009
2009	Goal 2: Clean and Safe Water	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	# 8-digit Watersheds with Data. Supports the watershed target of EPAs Strategic Plan SubObjective 2.2.1 which measures improved water quality on a watershed basis.	2008 Actuals	10% Increase	Report 09/30/2009
2009	Goal 2: Clean and Safe Water	Processes and Activities	Management and Innovation	Participation	# watershed groups/volunteer	0	25	Report 09/30/2009

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					organizations /tribes using XML Generation Tool.			
2009	Goal 2: Clean and Safe Water	Technology	Effectiveness	User Satisfaction	# of states/tribes transitioned to WQX and are submitting data	20	45	Report 09/30/2009
2009	Goal 2: Clean and Safe Water	Technology	Information and Data	External Data Sharing	# data partners that incorporate data via the web services to support the data partners core business functions, or to share data with the public.	2	6	Report 09/30/2009
2010	Goal 2: Clean and Safe Water	Customer Results	Customer Benefit	Customer Training	# of trainings given.	6	6	Report 09/30/2010
2010	Goal 2: Clean and Safe Water	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	#Tribal Monitoring Stations with Data. Supports the tribal target of EPAs Strategic Plan SubObjective 2.2.1 which measures improved water quality at tribal monitoring stations for 7 core water quality parameters.	2009 Actuals	20% Increase	Report 09/30/2010
2010	Goal 2: Clean and Safe Water	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	# Tribes Submitting Data. Supports the tribal target of EPAs Strategic Plan SubObjective 2.2.1 which measures improved water quality at tribal monitoring stations for 7 core water quality parameters.	2009 Actuals	20% Increase	Report 09/30/2010
2010	Goal 2: Clean and Safe Water	Mission and Business Results	Environmental Management	Environmental Monitoring and Forecasting	# 8-digit Watersheds with Data. Supports the watershed target of EPAs Strategic Plan SubObjective 2.2.1 which measures improved water quality on a watershed basis.	2009 Actuals	5% Increase	Report 09/30/2010
2010	Goal 2: Clean and Safe Water	Processes and Activities	Management and Innovation	Participation	# watershed groups/volunteer organizations /tribes using XML Generation Tool.	25	50	Report 09/30/2010
2010	Goal 2: Clean and Safe Water	Technology	Effectiveness	User Satisfaction	# of states/tribes transitioned to WQX and submitting data.	45	53	Report 09/30/2010
2010	Goal 2: Clean and Safe Water	Technology	Information and Data	External Data Sharing	# data partners that incorporate data via the web services to support the data partners core business	6	10	Report 09/30/2010

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					functions, or to share data with the public.			

**Section E: Security and Privacy (IT Capital Assets only)**

In order to successfully address this area of the business case, each question below must be answered at the system/application level, not at a program or agency level. Systems supporting this investment on the planning and operational systems security tables should match the systems on the privacy table below. Systems on the Operational Security Table must be included on your agency FISMA system inventory and should be easily referenced in the inventory (i.e., should use the same name or identifier).

For existing Mixed-Life Cycle investments where enhancement, development, and/or modernization is planned, include the investment in both the "Systems in Planning" table (Table 3) and the "Operational Systems" table (Table 4). Systems which are already operational, but have enhancement, development, and/or modernization activity, should be included in both Table 3 and Table 4. Table 3 should reflect the planned date for the system changes to be complete and operational, and the planned date for the associated C&A update. Table 4 should reflect the current status of the requirements listed. In this context, information contained within Table 3 should characterize what updates to testing and documentation will occur before implementing the enhancements; and Table 4 should characterize the current state of the materials associated with the existing system.

All systems listed in the two security tables should be identified in the privacy table. The list of systems in the "Name of System" column of the privacy table (Table 8) should match the systems listed in columns titled "Name of System" in the security tables (Tables 3 and 4). For the Privacy table, it is possible that there may not be a one-to-one ratio between the list of systems and the related privacy documents. For example, one PIA could cover multiple systems. If this is the case, a working link to the PIA may be listed in column (d) of the privacy table more than once (for each system covered by the PIA).

The questions asking whether there is a PIA which covers the system and whether a SORN is required for the system are discrete from the narrative fields. The narrative column provides an opportunity for free text explanation why a working link is not provided. For example, a SORN may be required for the system, but the system is not yet operational. In this circumstance, answer "yes" for column (e) and in the narrative in column (f), explain that because the system is not operational the SORN is not yet required to be published.

Please respond to the questions below and verify the system owner took the following actions:

1. Have the IT security costs for the system(s) been identified and integrated into the overall costs of the investment? Yes
  - a. If "yes," provide the "Percentage IT Security" for the budget year: 2
2. Is identifying and assessing security and privacy risks a part of the overall risk management effort for each system supporting or part of this investment? Yes

3. Systems in Planning and Undergoing Enhancement(s), Development, and/or Modernization - Security Table(s):			
Name of System	Agency/ or Contractor Operated System?	Planned Operational Date	Date of Planned C&A update (for existing mixed life cycle systems) or Planned Completion Date (for new systems)

4. Operational Systems - Security Table:							
Name of System	Agency/ or Contractor Operated System?	NIST FIPS 199 Risk Impact level (High, Moderate, Low)	Has C&A been Completed, using NIST 800-37? (Y/N)	Date Completed: C&A	What standards were used for the Security Controls tests? (FIPS 200/NIST 800-53, Other, N/A)	Date Completed: Security Control Testing	Date the contingency plan tested
STORET	Contractor and Government	Moderate	yes	1/31/2007	FIPS 200 / NIST 800-53	9/17/2007	7/30/2008

5. Have any weaknesses, not yet remediated, related to any of the systems part of or supporting this investment been identified by the agency or IG? No
  - a. If "yes," have those weaknesses been incorporated into the agency's plan of action and milestone process?

6. Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses? No
  - a. If "yes," specify the amount, provide a general description of the weakness, and explain how the funding request will remediate the weakness.

7. How are contractor security procedures monitored, verified, and validated by the agency for the contractor systems above?

8. Planning & Operational Systems - Privacy Table:					
(a) Name of System	(b) Is this a new system? (Y/N)	(c) Is there at least one Privacy Impact Assessment (PIA) which covers this system? (Y/N)	(d) Internet Link or Explanation	(e) Is a System of Records Notice (SORN) required for this system? (Y/N)	(f) Internet Link or Explanation
STORET	No	Yes	This system does not collect personally identifiable information on members of the public. Therefore, no PIA is required to be posted.	No	<a href="http://www.epa.gov/storet/privacy.html">http://www.epa.gov/storet/privacy.html</a> This system is not a Privacy Act system of records.
<b>Details for Text Options:</b> Column (d): If yes to (c), provide the link(s) to the publicly posted PIA(s) with which this system is associated. If no to (c), provide an explanation why the PIA has not been publicly posted or why the PIA has not been conducted.  Column (f): If yes to (e), provide the link(s) to where the current and up to date SORN(s) is published in the federal register. If no to (e), provide an explanation why the SORN has not been published or why there isn't a current and up to date SORN.  Note: Working links must be provided to specific documents not general privacy websites. Non-working links will be considered as a blank field.					

**Section F: Enterprise Architecture (EA) (IT Capital Assets only)**

In order to successfully address this area of the capital asset plan and business case, the investment must be included in the agency's EA and Capital Planning and Investment Control (CPIC) process and mapped to and supporting the FEA. The business case must demonstrate the relationship between the investment and the business, performance, data, services, application, and technology layers of the agency's EA.

1. Is this investment included in your agency's target enterprise architecture? Yes
  - a. If "no," please explain why?
  
2. Is this investment included in the agency's EA Transition Strategy? Yes
  - a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment. Storage and Retrieval Information System
  - b. If "no," please explain why?
  
3. Is this investment identified in a completed and approved segment architecture? No
  - a. If "yes," provide the six digit code corresponding to the agency segment architecture. The segment architecture codes are maintained by the agency Chief Architect. For detailed guidance regarding segment architecture codes, please refer to <http://www.egov.gov>.

4. Service Component Reference Model (SRM) Table:								
Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to <a href="http://www.egov.gov">http://www.egov.gov</a> .								
Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
System of Registries	The System of Registries provides the allowable values for WQX data submissions	Back Office Services	Data Management	Data Exchange	Data Exchange	020-00-01-16-01-6006-00	Internal	5
Water Quality Exchange (WQX)	EPAs Water Quality Exchange (WQX) defines the methods, and provides the means for sharing water quality	Back Office Services	Data Management	Data Exchange			No Reuse	25

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4. Service Component Reference Model (SRM) Table: Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to <a href="http://www.egov.gov">http://www.egov.gov</a> .								
Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	monitoring data between state, tribal, and federal partners to the STORET Data Warehouse.							
STORET Data Warehouse	EPAs warehouse for storing water quality monitoring data. WQX flows data directly to the STORET warehouse.	Back Office Services	Data Management	Data Warehouse			No Reuse	30
EPAs Extract Transform and Load (ETL) tool	WQX makes use of EPAs ETL tool Informatica to populate the STORET warehouse	Back Office Services	Data Management	Extraction and Transformation	Data Exchange	020-00-01-16-02-6029-00	Internal	15
STORET Data Warehouse	EPAs warehouse for storing water quality monitoring data. WQX flows data directly to the STORET warehouse.	Business Analytical Services	Reporting	Ad Hoc			No Reuse	10
STORET Data Warehouse	EPAs warehouse for storing water quality monitoring data. WQX flows data directly to the STORET warehouse.	Business Analytical Services	Reporting	Standardized / Canned			No Reuse	10
Central Data Exchange (CDX)	EPAs presence on the Exchange Network. Provides authentication and validation services for WQX.	Customer Services	Customer Relationship Management	Customer / Account Management	Data Exchange	020-00-01-16-01-6005-00	Internal	0
STORET Data Warehouse	EPAs warehouse for storing water quality monitoring data. WQX flows data directly to the STORET warehouse.	Digital Asset Services	Knowledge Management	Information Mapping / Taxonomy			No Reuse	5
National Geospatial Program (GEO/GIS)	This system allows for the geospatial representation of data contained in the STORET repository	Digital Asset Services	Knowledge Management	Information Sharing	Mapping / Geospatial / Elevation / GPS	020-00-01-16-04-3100-24	Internal	0

a. Use existing SRM Components or identify as "NEW". A "NEW" component is one not already identified as a service component in the FEA SRM.

b. A reused component is one being funded by another investment, but being used by this investment. Rather than answer yes or no, identify the reused service component funded by the other investment and identify the other investment using the Unique Project Identifier (UPI) code from the OMB Ex 300 or Ex 53 submission.

c. 'Internal' reuse is within an agency. For example, one agency within a department is reusing a service component provided by another agency within the same department. 'External' reuse is one agency within a department reusing a service component provided by another agency in another department. A good example of this is an E-Gov initiative service being reused by multiple organizations across the federal government.

d. Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the percentage of the BY requested funding amount transferred to another agency to pay for the service. The percentages in the column can, but are not required to, add up to 100%.

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<b>5. Technical Reference Model (TRM) Table:</b>				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
<b>FEA SRM Component (a)</b>	<b>FEA TRM Service Area</b>	<b>FEA TRM Service Category</b>	<b>FEA TRM Service Standard</b>	<b>Service Specification (b) (i.e., vendor and product name)</b>
Data Exchange	Component Framework	Data Interchange	Data Exchange	
Information Mapping / Taxonomy	Component Framework	Data Interchange	Data Exchange	
Standardized / Canned	Component Framework	Data Management	Reporting and Analysis	
Ad Hoc	Component Framework	Data Management	Reporting and Analysis	
Standardized / Canned	Component Framework	Data Management	Reporting and Analysis	
Information Sharing	Service Access and Delivery	Access Channels	Other Electronic Channels	
Information Sharing	Service Access and Delivery	Access Channels	Web Browser	
Information Sharing	Service Access and Delivery	Access Channels	Web Browser	
Customer / Account Management	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Information Sharing	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Extraction and Transformation	Service Interface and Integration	Interoperability	Data Transformation	
Data Warehouse	Service Platform and Infrastructure	Database / Storage	Database	
Information Sharing	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Information Sharing	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	

a. Service Components identified in the previous question should be entered in this column. Please enter multiple rows for FEA SRM Components supported by multiple TRM Service Specifications

b. In the Service Specification field, agencies should provide information on the specified technical standard or vendor product mapped to the FEA TRM Service Standard, including model or version numbers, as appropriate.

6. Will the application leverage existing components and/or applications across the Government (i.e., USA.gov, Pay.Gov, etc)? No

a. If "yes," please describe.

**Exhibit 300: Part III: For "Operation and Maintenance" investments ONLY (Steady State)****Section A: Risk Management (All Capital Assets)**

Part III should be completed only for investments identified as "Operation and Maintenance" (Steady State) in response to Question 6 in Part I, Section A above.

You should have performed a risk assessment during the early planning and initial concept phase of this investment's life-cycle, developed a risk-adjusted life-cycle cost estimate and a plan to eliminate, mitigate or manage risk, and be actively managing risk throughout the investment's life-cycle.

1. Does the investment have a Risk Management Plan? Yes
- a. If "yes," what is the date of the plan? 7/1/2008
- b. Has the Risk Management Plan been significantly changed since last year's submission to OMB? No
- c. If "yes," describe any significant changes:

The risk management plan is current.

2. If there currently is no plan, will a plan be developed?
- a. If "yes," what is the planned completion date?
- b. If "no," what is the strategy for managing the risks?

**Section B: Cost and Schedule Performance (All Capital Assets)**

1. Was an operational analysis conducted? Yes
- a. If "yes," provide the date the analysis was completed. 8/8/2008
- b. If "yes," what were the results?

STORET operational analysis reviews are conducted on an ongoing basis in monthly project team meetings. In addition, quarterly EVM reports including operational cost and schedule metrics are provided to the EPA CPIC Office as required. For FY2008, when STORET development is completed, ongoing operational analysis reviews are being expanded to include a Post Implementation Review within 6 months of completing development activities. STORET enters steady-state in October 2008. By August 30, 2008, EPA will have established the metrics and baseline by which Operational Analysis will be measured. These metrics will be based on the cost performance baseline established in this CPIC, as well as the performance metrics identified in this CPIC. EPA will evaluate the effectiveness of these metrics, and add additional metrics as necessary. The first Operational Analysis will be conducted at the end of October 2008, with follow-on evaluations being conducted monthly.

EPA is currently measuring Earned Value Management for the STORET investment.

- c. If "no," please explain why it was not conducted and if there are any plans to conduct operational analysis in the future:

2. Complete the following table to compare actual cost performance against the planned cost performance baseline. Milestones reported may include specific individual scheduled preventative and predictable corrective maintenance activities, or may be the total of planned annual operation and maintenance efforts).

- a. What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)? Contractor and Government

Exhibit 300: BY2010 Storage and Retrieval Information System (STORET) (Revision 12)

2.b Comparison of Plan vs. Actual Performance Table							
Milestone Number	Description of Milestone	Planned		Actual		Variance	
		Completion Date (mm/dd/yyyy)	Total Cost(\$M)	Completion Date (mm/dd/yyyy)	Total Cost(\$M)	Schedule (# days)	Cost(\$M)
1	Planning	7/7/2006	\$0.520000	7/7/2006	\$0.510000	0	\$0.010000
1.1	OWWQX Pilot	2/28/2006	\$0.450000	3/15/2006	\$0.450000	-15	\$0.000000
1.2	Alternative Analysis	7/7/2006	\$0.070000	7/7/2006	\$0.060000	0	\$0.010000
2	Acquisition	9/30/2008	\$6.260000	7/30/2008	\$6.147000	62	\$0.113000
2.1	Initial Warehouse development	9/30/2001	\$0.800000	9/30/2001	\$0.800000	0	\$0.000000
2.2	STORET Modernized	9/30/2003	\$2.500000	9/30/2003	\$2.500000	0	\$0.000000
2.3	SIM	9/30/2003	\$0.400000	9/30/2003	\$0.400000	0	\$0.000000
2.4	WQX Production (Physical/Chemical)	1/31/2007	\$1.100000	2/15/2007	\$1.096000	-15	\$0.004000
2.5	Warehouse Updates	12/31/2007	\$0.250000	3/31/2007	\$0.240000	275	\$0.010000
2.6	Warehouse Web Services	5/31/2007	\$0.160000	5/31/2007	\$0.131000	0	\$0.029000
2.7	WQX Production (Biological/Habitat)	5/31/2008	\$0.750000	7/30/2008	\$0.770000	-60	-\$0.020000
2.8	WQX XML Generation Tool	9/30/2008	\$0.270000		\$0.180000		\$0.090000
2.9	Warehouse updates (Biological/Habitat)	5/31/2008	\$0.030000	7/30/2008	\$0.030000	-60	\$0.000000
3	Operations and Maintenance			9/30/2007			
3.1	O&M Prior to 2006	9/30/2005	\$11.050000	9/30/2005	\$11.050000	0	\$0.000000
3.21	O&M - WCF '06	9/30/2006	\$0.500000	9/30/2006	\$0.425000	0	\$0.075000
3.22	O&M - WCF '07	9/30/2007	\$0.500000	9/30/2007	\$0.425000	0	\$0.075000
3.23	O&M - WCF '08	9/30/2008	\$0.369000		\$0.300000		\$0.069000
3.24	O&M - WCF '09	9/30/2009	\$0.270000				
3.25	O&M - WCF '10	9/30/2010	\$0.270000				
3.31	O&M - Maintenance of existing tools and systems (Distributed STORET) '06	9/30/2006	\$0.350000	9/30/2006	\$0.350000	0	\$0.000000
3.32	O&M - Maintenance of existing tools (Distributed STORET) '07	9/30/2007	\$0.200000	9/30/2007	\$0.200000	0	\$0.000000
3.33	O&M - Maintenance of existing tools (WQX) '07	9/30/2007	\$0.150000	9/30/2007	\$0.150000	0	\$0.000000
3.35	O&M - Maintenance of existing tools (WQX) '08	9/30/2008	\$0.030000		\$0.015000		\$0.015000
3.37	O&M - Maintenance of existing tools (WQX) '09	9/30/2009	\$0.403000				

Exhibit 300: BY2010 Storage and Retrieval Information System (STORET) (Revision 12)

2.b Comparison of Plan vs. Actual Performance Table

Milestone Number	Description of Milestone	Planned		Actual		Variance	
		Completion Date (mm/dd/yyyy)	Total Cost(\$M)	Completion Date (mm/dd/yyyy)	Total Cost(\$M)	Schedule (# days)	Cost(\$M)
3.38	O&M - Maintenance of existing tools '10	9/30/2010	\$0.403000				
3.42	O&M - Outreach - Transition Support '06-'09	9/30/2009	\$0.120000	5/31/2007	\$0.120000	853	\$0.000000
3.51	O&M - Outreach - Training/User Support (Distributed STORET) '06	9/30/2006	\$0.050000	5/31/2006	\$0.050000	122	\$0.000000
3.52	O&M - Outreach - Training/User support (WQX) '06	9/30/2006	\$0.050000	7/13/2006	\$0.050000	79	\$0.000000
3.53	O&M - Outreach - Training/User support (STORET) '07	9/30/2007	\$0.020000	9/30/2007	\$0.020000	0	\$0.000000
3.54	O&M - Outreach - Training/User support (WQX) '07	9/30/2007	\$0.080000	9/30/2007	\$0.080000	0	\$0.000000
3.55	O&M - Outreach - Training/User support '09	9/30/2009	\$0.050000				
3.56	O&M - Outreach - Training/User support '10	9/30/2010	\$0.050000				
3.60	O&M - Tribal Support '06 - '07	9/30/2007	\$0.150000	9/30/2007	\$0.150000	0	\$0.000000
4	FTE	9/30/2013		9/30/2007			
4.10	FTE Prior to 2006	9/30/2005	\$2.500000	9/30/2005	\$2.500000	0	\$0.000000
4.21	FTE Costs (Distributed STORET) '06	9/30/2006	\$0.250000	9/30/2006	\$0.250000	0	\$0.000000
4.22	FTE Costs (WQX) '06	9/30/2006	\$0.250000	9/30/2006	\$0.250000	0	\$0.000000
4.23	FTE Costs (Distributed STORET) '07	9/30/2007	\$0.250000	9/30/2007	\$0.250000	0	\$0.000000
4.24	FTE Costs (WQX) '07	9/30/2007	\$0.250000	9/30/2007	\$0.250000	0	\$0.000000
4.25	FTE Costs (Distributed STORET) '08	9/30/2008	\$0.230000		\$0.185000		\$0.045000
4.26	FTE Costs (WQX) '08	9/30/2008	\$0.229000		\$0.185000		\$0.044000
4.27	FTE Costs (Distributed STORET) '09	9/30/2009	\$0.050000				
4.28	FTE Costs (WQX) '09	9/30/2009	\$0.422000				
4.29	FTE Costs '10	9/30/2010	\$0.472000				
<b>Project Totals</b>							