

**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 Safe Drinking Water Information System (SDWIS)
- 5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 020-00-01-12-01-1030-00
- 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:

SDWIS supports the implementation of the Safe Drinking Water Act (SDWA) Public Water System Supervision (PWSS) program and EPA's mission of protecting public health. SDWIS includes data collection, storage, analysis and reporting in support of the decision making by state and national program management. It provides decision makers with information on compliance with drinking water standards by water systems and information about the regulated systems. SDWIS is a legislatively required system supporting oversight and compliance determinations made by States and EPA programs that regulate approximately 160,000 public water systems providing drinking water to the American public.

SDWA mandates:

- EPA develop and review regulations that protect the public from contaminants of concern in drinking water;
- States implement the federal regulations, that control the activities of public water systems;
- States report data to EPA to document their decisions about water system compliance and support EPA oversight and enforcement responsibilities;
- EPA fund (and oversee) the States' implementation activities, and where necessary, take enforcement actions against water systems, in lieu of or in addition to the States, to ensure compliance with regulations.

SDWIS was established to meet the PWSS program business need for a centralized database (40 CFR, Section 142.15) to collect reliable, timely, and accurate data from States. SDWIS addresses the end-to-end data flow for: submission of sample results by water systems to the states or EPA enforcement authority, state data management and reporting of high quality facility and violation results to EPA, and EPA receipt, processing and management of the data for decision making and targeting actions to facilitate compliance. Benefits include reduced data submission, processing and reporting times with fewer errors.

The data from SDWIS allow the national PWSS Program to manage and implement SDWA, supporting EPA's Goal 2.1.1 - Water Safe to Drink. SDWIS provides a consistent central repository and tools needed to ensure that sound local and national program decisions are made on the best quality data.

Based on the life cycle of SDWIS, EPA will conduct an alternative/operational analysis in 2009. The SDWIS Information Strategic Plan (January 2004), the PWSS program goals, and EPA's mission to protect public health provide the baseline for this analysis.

- 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? No

2. If "yes," will this investment meet sustainable design principles? No

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?)

To promote electronic data exchange, SDWIS supports end-to-end electronic data entry and reporting. SDWIS utilizes XML schemas, EPA data portal and State data Nodes. EPA and the states created a standard XML schema for sharing drinking water data. EPA collaborates with the states and tribes in enhancing and maintaining SDWIS. SDWIS assists states and EPA in providing consistent drinking water quality data to the Public. EPA and the states are expanding the use of SDWIS data.

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? No

b. If "yes," what is the name of the PARTed program?

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

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 FFIA 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	5
Software	10
Services	85
Other	

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:	4.92	0	0	0					
Acquisition:	36.11	0	0	0					
Subtotal Planning & Acquisition:	41.03	0	0	0					
Operations & Maintenance:	31.535	2.483	2.753	2.807					
TOTAL:	72.565	2.483	2.753	2.807					
<b>Government FTE Costs should not be included in the amounts provided above.</b>									
Government FTE Costs	13.399	0.295	0.305	0.305					
Number of FTE represented by Costs:	14	3	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:

**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

Exhibit 300: BY2010 Safe Drinking Water Information System (SDWIS) (Revision 12)  
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)	Name of CO	CO Contact information (phone/email)	Contracting Officer FAC-C or DAWIA Certification Level (Level 1, 2, 3, N/A)	If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition ? (Y/N)
GS-35F-0151L	KeyLogic SDWIS SETS/SNC Small Business	Yes	1/1/2007	1/1/2007	1/24/2010	0.61	No	Yes	Yes	NA	No	Yes				
DW-47-93939301-0, task 0502	CSC CDX SDWIS Task Order	Yes	6/1/2006	10/1/2006	9/30/2008	0.1	No	Yes	Yes	NA	No	Yes				
EP07D000102	Guident - SDWIS Support Task Order - Small Business	Yes	11/30/2007	12/1/2007	11/30/2008	0.004	No	Yes	Yes	NA	No	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:

SDWIS is in steady-state and EVM is not required. However, EVM will be a future contract requirement for all SDWIS contracts. We will conduct a alternative/operational in 2009, to determine future enhancements or development. Depending on outcome of alternative/operational analysis, EVM maybe required at that time.

3. Do the contracts ensure Section 508 compliance? Yes

a. Explain why not or how this is being done? All SDWIS statements of work require 508 compliance for all SDWIS components. As part of our test procedures we test to ensure 508 compliance. All changes are reviewed with 508 compliance review as part of the process.

4. Is there an acquisition plan which reflects the requirements of FAR Subpart 7.1 and has been approved in accordance with agency requirements? No

a. If "yes," what is the date?

1. Is it Current?

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	Service Quality	Accuracy of Service or Product Delivered	Number of Primacy Agencies using SDWIS STATE	8% of primacy agencies used SDWIS STATE	95% of Primacy Agencies use SDWIS STATE	Currently 92% of primacy agencies use SDWIS ST
2008	Goal 2: Clean and Safe Water	Mission and Business Results	Health	Population Health Management and Consumer Safety	Develop SDWIS to support Federal Drinking Water Regulations	SDWIS is able to flow 100% of existing drinking water regulatory data.	100% Compliance Federal Drinking Water Regulations	SDWIS is able to determine compliance for 100% of required data
2008	Goal 2: Clean and Safe Water	Processes and Activities	Productivity	Productivity	Percent of primacy agencies that received SDWIS production training this FY	Trained 10% of primacy agencies	Provide refresher training to at least 50% of primacy agencies annually	20% of Primacy Agencies have been trained in FY 2008
2008	Goal 2: Clean and Safe Water	Technology	Efficiency	Accessibility	Increase quarterly on time drinking water data reporting from primacy agencies to EPA	80% of primacy agencies report drinking water data on time	100% reporting from primacy agencies	100% Reporting through first 3 quarters of FY 2008
2009	Goal 2: Clean and Safe Water	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Number of Primacy Agencies using SDWIS STATE	8% of primacy agencies used SDWIS STATE	95% of Primacy Agencies use SDWIS STATE	
2009	Goal 2: Clean and Safe Water	Mission and Business Results	Health	Population Health Management and Consumer Safety	Develop SDWIS to support Federal Drinking Water Regulations	SDWIS is able to flow 100% of existing drinking water regulatory data.	100% Compliance Federal Drinking Water Regulations	
2009	Goal 2: Clean and Safe Water	Processes and Activities	Productivity	Efficiency	Percent of primacy agencies that	Trained 10% of primacy agencies	Provide refresher training to at least 50% of	

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					received SDWIS production training this FY		primacy agencies annually	
2009	Goal 2: Clean and Safe Water	Technology	Efficiency	Accessibility	Increase quarterly on time drinking water data reporting from primacy agencies to EPA	80% of primacy agencies report drinking water data on time	100% reporting from primacy agencies	
2010	Goal 2: Clean and Safe Water	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Number of Primacy Agencies using SDWIS STATE	8% of primacy agencies used SDWIS STATE	95% of Primacy Agencies use SDWIS STATE	
2010	Goal 2: Clean and Safe Water	Mission and Business Results	Health	Population Health Management and Consumer Safety	Develop SDWIS to support Federal Drinking Water Regulations	SDWIS is able to flow 100% of existing drinking water regulatory data.	100% Compliance Federal Drinking Water Regulations	
2010	Goal 2: Clean and Safe Water	Processes and Activities	Productivity	Efficiency	Percent of primacy agencies that received SDWIS production training this FY	Trained 10% of primacy agencies	Provide refresher training to at least 50% of primacy agencies annually	
2010	Goal 2: Clean and Safe Water	Technology	Efficiency	Accessibility	Increase quarterly on time drinking water data reporting from primacy agencies to EPA	80% of primacy agencies report drinking water data on time	100% reporting from primacy agencies	

**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: 7

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):**

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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)
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**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
SDWIS	Government Only	Moderate	yes	8/22/2006	FIPS 200 / NIST 800-53	9/26/2007	7/15/2008

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
SDWIS	No	Yes	This system does not collect personally identifiable information on members of the public. Therefore, no PIA is required to be posted.	No	No. This system is not a Privacy Act System of Records

**Details for Text Options:**  
 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? No

a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment.

b. If "no," please explain why?

It did not meet the criteria for inclusion, as set by the Chief Architect. To be included, an investment must have some money

going towards DME in 2008.

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>.

<b>4. Service Component Reference Model (SRM) Table:</b>								
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)
Central Data Exchange	EPA exchange network for uploading and publishing data between trading partners	Back Office Services	Data Management	Data Exchange	Data Exchange	020-00-01-16-01-6005-00	Internal	3
SDWIS validation module - a data validation tool to provide near real-time quality checking	A suite of tools that, for primacy agencies (PA) using SDWIS state module, extracts data from their database and formats into XML documents. Primacy agencies not using SDWIS are responsible for creating XML documents consistent with our published XML schema. For all primacy agencies, validates the XML document against EPA business rules, provides output reports. Provides capability for user to manage validated XML documents and interfaces with EPA CDX to transfer data reports to EPA	Back Office Services	Data Management	Extraction and Transformation			No Reuse	2
SDWIS national database - a database receiving, processing and storing routine state data submittals	central repository designed to complete primacy agency data submittal validations not performed in FedRep, provides output reports recording data submittal results, stores the resulting data for ultimate migration to the data warehouse for end user retrieval	Back Office Services	Data Management	Loading and Archiving			No Reuse	12
Drinking Water Data Warehouse - a national repository of summary and exception data submitted by states to support EPA decision	The Drinking Water Data Warehouse contains all the data extracted from SDWIS national operational database,	Back Office Services	Development and Integration	Data Integration			No Reuse	5

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<b>4. Service Component Reference Model (SRM) Table:</b> 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)
making stored from which the centrally managed national data are made available to various tools that generate reports	denormalized the data to make it more accessible for user retrievals. This data is used by the SDWIS Reporting Services (SRS) Standard Reports.							
SDWIS state data repositories, a suite of software tools supporting SDWA compliance decision making and data submission of the States	A suite of applications designed to assist primacy agencies in performing their Public Water System Supervision responsibilities, including a database, data entry screens for interactive data update, processes for batch updating data (such as lab sample data), processes to analyze data and provide sampling schedules, identify noncompliance, allow users to validate noncompliance, develop and track enforcement and other actions; and schedule, perform and document visits and inspections.	Business Analytical Services	Business Intelligence	Decision Support and Planning			No Reuse	40
Drinking Water Data Warehouse - a national repository of summary and exception data submitted by states to support EPA decision making stored from which the centrally managed national data are made available to various tools that generate reports	A central repository designed to complete primacy agency data submittal validations not performed in SDWIS validation module, provides output reports recording data submittal results, stores the resulting data for ultimate migration to the data warehouse for end user retrieval	Business Analytical Services	Reporting	Ad Hoc			No Reuse	3
Drinking Water Data Warehouse - a national repository of summary and exception data submitted by states to support EPA decision making stored from which the centrally managed national data are made available	The Drinking Water Data Warehouse contains all the data extracted from SDWIS national operational database, denormalized the data to make it more accessible for user retrievals. This data is used	Business Analytical Services	Reporting	OLAP			No Reuse	3

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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)
to various tools that generate reports	by the SDWIS Reporting Services (SRS) Standard Reports.							
Drinking Water Data Warehouse - a national repository of summary and exception data submitted by states to support EPA decision making stored from which the centrally managed national data are made available to various tools that generate reports	The Drinking Water Data Warehouse contains all the data extracted from SDWIS national operational database, denormalized the data to make it more accessible for user retrievals. This data is used by the SDWIS Reporting Services (SRS) Standard Reports.	Business Analytical Services	Reporting	Standardized / Canned			No Reuse	10
SDWIS validation module - a data validation tool to provide near real-time quality checking	A suite of tools that, for primacy agencies (PA) using SDWIS state module, extracts data from their database and formats into XML documents. Primacy agencies not using SDWIS are responsible for creating XML documents consistent with our published XML schema. For all primacy agencies, validates the XML document against EPA business rules, provides output reports. Provides capability for user to manage validated XML documents and interfaces with EPA CDX to transfer data reports to EPA.	Business Analytical Services	Reporting	Standardized / Canned			No Reuse	3
SDWIS validation module - a data validation tool to provide near real-time quality checking	A suite of tools that, for primacy agencies (PA) using SDWIS state module, extracts data from their database and formats into XML documents. PA not using SDWIS are responsible for creating XML documents consistent with our published XML schema. For all primacy agencies, validates the XML document against EPA business rules, provides output	Digital Asset Services	Document Management	Document Review and Approval			No Reuse	5

Exhibit 300: BY2010 Safe Drinking Water Information System (SDWIS) (Revision 12)

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)
	reports. Provides capability for user to manage validated XML documents and interfaces with EPA CDX to transfer data reports to EPA							
SDWIS national operational database - a database receiving, processing and storing routine state data submittals	A central repository designed to complete primacy agency data submittal validations not performed in SDWIS validation module, provides output reports recording data submittal results, stores the resulting data for ultimate migration to the data warehouse for end user retrieval	Digital Asset Services	Knowledge Management	Information Sharing			No Reuse	1
SDWIS validation module - a data validation tool to provide near real-time quality checking	A suite of tools that, for primacy agencies (PA) using SDWIS state module, extracts data from their database and formats into XML documents. PA not using SDWIS are responsible for creating XML documents consistent with our published XML schema. For all primacy agencies, validates the XML document against EPA business rules, provides output reports. Provides capability for user to manage validated XML documents and interfaces with EPA CDX to transfer data reports to EPA	Process Automation Services	Tracking and Workflow	Process Tracking			No Reuse	1
SDWIS state module - State data repositories, a suite of software tools supporting SDWA compliance decision making and data submission of the States	A suite of applications designed to assist primacy agencies in performing their Public Water System Supervision responsibilities, including a database, data entry screens for interactive data update, processes for batch updating data (such as lab sample data), processes to	Process Automation Services	Tracking and Workflow	Process Tracking			No Reuse	12

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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)
	analyze data and provide sampling schedules, identify noncompliance, allow users to validate noncompliance, develop and track enforcement and other actions; and schedule, perform and document visits and inspections.							

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%.

5. Technical Reference Model (TRM) Table: 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.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Decision Support and Planning	Component Framework	Business Logic	Platform Dependent Technologies	
Decision Support and Planning	Component Framework	Business Logic	Platform Dependent Technologies	
OLAP	Component Framework	Business Logic	Platform Dependent Technologies	
Decision Support and Planning	Component Framework	Business Logic	Platform Dependent Technologies	
Data Exchange	Component Framework	Data Interchange	Data Exchange	
Document Review and Approval	Component Framework	Data Management	Reporting and Analysis	
Document Review and Approval	Component Framework	Data Management	Reporting and Analysis	
Process Tracking	Component Framework	Data Management	Reporting and Analysis	
Document Review and Approval	Component Framework	Data Management	Reporting and Analysis	
Standardized / Canned	Component Framework	Data Management	Reporting and Analysis	
Document Review and Approval	Component Framework	Data Management	Reporting and Analysis	
Process Tracking	Component Framework	Data Management	Reporting and Analysis	
OLAP	Component Framework	User Presentation / Interface	Content Rendering	
Data Integration	Service Access and Delivery	Access Channels	Web Browser	
Ad Hoc	Service Access and Delivery	Delivery Channels	Extranet	
Ad Hoc	Service Access and Delivery	Delivery Channels	Intranet	
Information Sharing	Service Access and Delivery	Delivery Channels	Intranet	
Extraction and Transformation	Service Interface and Integration	Integration	Middleware	
Data Integration	Service Interface and Integration	Interoperability	Data Transformation	
Loading and Archiving	Service Platform and Infrastructure	Database / Storage	Database	

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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>
Loading and Archiving	Service Platform and Infrastructure	Database / Storage	Database	
Standardized / Canned	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Standardized / Canned	Service Platform and Infrastructure	Delivery Servers	Web Servers	

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? 3/28/2006
- b. Has the Risk Management Plan been significantly changed since last year's submission to OMB? No
- c. If "yes," describe any significant changes:

We are currently revising the Risk Management Plan with completion schedule for Fall 2008.

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. 5/8/2007
- b. If "yes," what were the results?

Based on our operational analysis, we are meeting or exceeding our goals. Five operational categories of Performance, functionality, incident response, customer feedback and current technology were evaluated. Through the analysis, gaps were identified in several areas, which have been addressed. Specifically, we have ensured that EPA analysts have consistent and reliable data at the national level to evaluate program implementation and make recommendations to the decision makers. For the first time over the last two years, we have had all state drinking water programs submit required quarterly drinking water data on schedule. We have provided tools that allows states to consistently determine compliance for the drinking water regulations. Our ongoing challenge is to expand the use of SDWIS/State software by states. This will allowed us to identify other capabilities for SDWIS/State to make it more useful to decision-makers. Our analysis of the entire SDWIS system continues to show that our partnership with state and tribal program offices is effective in meeting the goal of protecting public health. Furthermore, OGDWD's modernization of the entire SDWIS data flow was cited by OCFO in its "Internal Controls" training as an example of success in improving data reliability.

In FY 2009 we plan to conduct an alternative analysis, to determine future enhancements or development of SDWIS. The alternative analysis will focus on how SDWIS supports EPA mission of protecting public health through the implementation of the Safe Drinking Water Act.

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

Based on our operational analysis, we are meeting or exceeding our goals. With SDWIS, we addressed our performance gaps. Specifically, we have ensured that EPA analysts have consistent and reliable data at the national level to evaluate program implementation and make recommendations to the decision makers. Over the last two years, we have for the first time had all state drinking water programs submit required quarterly drinking water data on schedule. We have provided states a tool (SDWIS's state module) that allows states to consistently determine compliance for the drinking water regulations. Our ongoing challenge is to expand the use of SDWIS's state module. This will allowed us to identify other capabilities for SDWIS's state module to make it more useful to decision-makers. Our analysis of the SDWIS system continues to show that our partnership with state and tribal program offices is effective in meeting the goal of protecting public health. Furthermore, OGDWD's modernization of the entire SDWIS data flow was cited by OCFO in its "Internal Controls" training as an example of success in improving data reliability.

In FY 2009 we plan to conduct an alternative/operational analysis, to determine future enhancements or development of SDWIS. The alternative/operational analysis will focus on how SDWIS supports EPA mission of protecting public health through the implementation of the Safe Drinking Water Act. >

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

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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)
38	2005 Total	9/30/2005	\$4.550000	9/30/2005	\$4.608000	0	-\$0.058000
1	SDWIS User Support and Training FY 05	9/30/2005	\$0.850000	9/30/2005	\$0.812000	0	\$0.038000
2	Management of SDWIS Projects FY 05	9/30/2005	\$0.500000	9/30/2005	\$0.421000	0	\$0.079000
3	Maintenance of SDWIS – Production Control, National database, validation module, Documentation FY 05	9/30/2005	\$1.400000	9/30/2005	\$1.493000	0	-\$0.093000
4	Modification to SDWIS to Support Safe Drinking Water Act regulations	9/30/2005	\$1.800000	9/30/2005	\$1.882000	0	-\$0.082000
39	2006 Total	9/30/2006	\$4.090000	9/30/2006	\$4.005000	0	\$0.085000
5	Maintenance of SDWIS Support FY 06	9/30/2006	\$0.380000	9/30/2006	\$0.380000	0	\$0.000000
6	SDWIS User Support and Training FY 06	9/30/2006	\$0.500000	9/30/2006	\$0.520000	0	-\$0.020000
7	Operation of SDWIS National DB FY 06	9/30/2006	\$0.490000	9/30/2006	\$0.480000	0	\$0.010000
8	Management of SDWIS Projects FY 06	9/30/2006	\$0.400000	9/30/2006	\$0.370000	0	\$0.030000
9	Modification to SDWIS to Support Safe Drinking Water Act regulations for Web Release 1	4/30/2006	\$0.600000	3/30/2006	\$0.585000	31	\$0.015000
13	SDWIS's state module web Release 2 FY 06	9/30/2006	\$0.500000	9/30/2006	\$0.450000	0	\$0.050000
40	SDWIS WCF	9/30/2006	\$0.970000	9/30/2006	\$0.970000	0	\$0.000000
45	EPA FTE PM 2006	9/30/2006	\$0.250000	9/30/2006	\$0.250000	0	\$0.000000
41	2007 Total	9/30/2007	\$3.899000	6/30/2007	\$3.109000	92	\$0.790000
10	Modification to SDWIS to Support Safe Drinking Water Act regulations Web Release 2	6/30/2007	\$0.000000				
11	Maintenance of SDWIS's state module (including electronic Data Verification) FY 07	9/30/2007	\$0.400000	6/30/2007	\$0.301000	92	\$0.099000
12	SDWIS User Support and	9/30/2007	\$0.500000	6/30/2007	\$0.398000	92	\$0.102000

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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)
	Training FY 07						
14	SDWIS's state module web Release 2 (FY 07)	6/30/2007	\$1.250000	6/30/2007	\$1.082000	0	\$0.168000
15	Enhance data validation module to meet new rule requirements	9/30/2007	\$0.179000	6/30/2007	\$0.101000	92	\$0.078000
16	Operation of SDWIS National DB (w/WCF)	9/30/2007	\$0.870000	6/30/2007	\$0.688000	92	\$0.182000
17	Maintenance of SDWIS Warehouse	9/30/2007	\$0.150000	6/30/2007	\$0.112000	92	\$0.038000
18	Maintenance of SDWIS Reports	9/30/2007	\$0.150000	6/30/2007	\$0.101000	92	\$0.049000
19	Maintenance of SDWIS SNC/SETS module	9/30/2007	\$0.150000	6/30/2007	\$0.139000	92	\$0.011000
46	EPA FTE PM 2007	9/30/2007	\$0.250000	6/30/2007	\$0.187000	92	\$0.063000
42	2008 Total	9/30/2008	\$3.096000				
20	Maintenance of SDWIS' state module FY 08	9/30/2008	\$0.500000				
21	SDWIS User Support and Training FY 08	9/30/2008	\$0.500000				
22	Maintenance of data validation module)	9/30/2008	\$0.500000				
23	Operation of SDWIS National DB (w/WCF) 08	9/30/2008	\$0.500000				
24	Maintenance of SDWIS Warehouse 08	9/30/2008	\$0.400000				
25	Maintenance SDWIS Reports 08	9/30/2008	\$0.351000				
27	Initiate closeout of SDWIS SYSTEM	9/30/2008	\$0.050000				
47	EPA FTE PM 2008	9/30/2008	\$0.295000				
43	2009 Total	9/30/2009	\$2.500000				
28	Maintenance of Existing SDWIS National database (w/WCF) 09	9/30/2009	\$0.440000				
29	User Support and Training for SDWIS 09	9/30/2009	\$0.500000				
30	Maintenance of SDWIS's state module 09	9/30/2009	\$0.300000				

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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)
31	Maintenance of data validation module 09	9/30/2009	\$0.250000				
32	Maintenance of SDWIS Warehouse 09	9/30/2009	\$0.200000				
33	Maintenance of SDWIS Reports 09	9/30/2009	\$0.400000				
48	EPA FTE PM 2009	9/30/2009	\$0.350000				
50	C&A Renewal SDWIS	4/15/2009	\$0.060000				
44	2010 Total	9/30/2010	\$1.500000				
35	User Support and Training for SDWIS 10	9/30/2010	\$0.400000				
36	Transition to new SDWIS System	8/31/2010	\$0.400000				
37	Maintenance of Existing SDWIS System 10	9/30/2010	\$0.400000				
49	EPA FTE PM 2010	9/30/2010	\$0.300000				
<b>Project Totals</b>		<b>9/30/2010</b>	<b>\$19.635000</b>	<b>6/30/2007</b>	<b>\$11.722000</b>	<b>1188</b>	<b>\$7.913000</b>