Report Title: 2020 - 2022 IT Strategic Plan

Agency: 440 Department of Environmental Quality (DEQ)
Date: 6/16/2020

Current Operational IT Investments

In this section, describe the high-level strategy the agency will use to manage existing operational IT investments over the next year to 5 years. This section should align with identified Business Requirements for Existing Technology (BReTs). At minimum, please address the following questions in your description of your agencys strategy for managing existing operational IT investments:

Are there existing IT investments that will require additional funding over the next year to 5 years, such as license renewals, re-competition of current IT contracts, or system enhancements required by the Agency Strategic Plan?

If there are systems that will no longer support the agencys business needs, either through poor performance or excessive cost, how does IT leadership in the agency plan to address the issues?

If the agency does not have the staff or funding to meet increasing demand for IT services, how will IT leadership fulfill the requests?

DEQ is committed to using technology to provide more efficient service and to reduce operational costs. In addition, DEQ must meet certain State and Federal mandates for reporting which have direct impacts on the agency's IT resources and capabilities. DEQ's current technology-based initiatives include:

· Comprehensive Environmental Data System (CEDS): DEQ's system of record for environmental data. DEQ has converted the outdated legacy modules to an architecture that now enables integration among DEQ's enterprise applications and mobile/web deployments. DEQ is now in the process of enhancing the applications as needed to meet the business need. DEQ is also working on making CEDS the main data source for all DEQ related data, by building modules with in CEDS application for any data sources managed outside CEDS (in excel or access data bases)

· Enterprise Content Management System (ECM): DEQ's repository for documents of record, implementing approved document retention. DEQ is upgrading the system to include single sign-on and enhanced ability to integrate seamlessly with the other enterprise applications.

· Geographic Information System (GIS): Geospatial information across DEQ used for modeling, analysis, and public information. DEQ is implementing the GIS strategic plan to ensure future efforts in this area are focused, cost effective, and continue to provide staff with time and cost saving tools.

· Oracle E-Business Suite (eBiz): DEQ's transaction and reporting database for financials, human resources, purchasing, and project costing. DEQ has used (eBiz) as the Financial System of Record since 2000. The Commonwealth has mandated a phased implementation of Cardinal as the Commonwealth Financial System of Record.

· The exchange of GIS and other environmental data with EPA and others via the National Information Exchange Network (NEIN).

The dynamic nature of environmental regulation demands ever-changing environmental data for analysis and decision-making, requiring a sustained effort toward efficient capture, storage, protection, and exchange of this data. By integrating CEDS, ECM, GIS, and eBiz, DEQ is laying the foundation for future initiatives that will benefit citizens, the regulated community and other government agencies. DEQ's plans for the future include:

· Web-based permit application process and reporting for the regulated community;
· Implementation of the VITA SharePoint offering to replace the agency's intranet;
· Mobilization of more inspectors, water quality assessors, and monitoring staff with tools for on-site data capture and global positioning;
· Sophisticated environmental data modeling and forecasting tools; and
· Efficient data retrieval using Business Intelligence technology and an enterprise data warehouse.

Factors Impacting the Current IT

In this section, the agency will describe the changes in their business environment that will require or mandate changes to the agencys current IT investments. These are requirements and mandates from external sources, such as other agencies or business partners, the agencys customer base, product and service providers, or new federal or state legislation or regulations. The agency must identify the business value of the change, any important deadlines that must be met, and the consequences if the deadlines are not met. In your discussion, be sure to note whether the proposed enhancements are funded or not. If the agencys existing current IT investments will not need enhancement due to requirements or mandates from external sources in the foreseeable future, the agency should enter the following text rather than leave the Factors Impacting the Current IT section blank

For each mandated change, summarize your agencys response from your Agency Strategic Plan, and is it the opinion of agency IT leadership that the IT portion of the response is adequately funded?

Do the mandated changes effect IT in other Commonwealth agencies, or in other states? If so, how?

As described in the current operational IT investments, DEQ has multiple efforts underway over the next 2 to 4 years: ongoing CEDS Enhancements effort and the mandated agency transition to Cardinal. The CEDS enhancements is documented in our BRnTs. This is a continuing effort in order to satisfy the business needs.

Agency IT leadership expects that these projects will be adequately funded either through grant, non general funds or general funds. DEQ Leadership has planned for IT projects and has maintained sufficient non general fund balances to fund the necessary upgrades. In addition, due to proper planning, DEQ is positioned to successfully apply for federal grants to fund mandated federal IT initiatives.

DEQ is committed to project management standards and has shifted to a modified agile development approach. Due to these factors, DEQ is able to initiate and deploy smaller, iterative projects that result in quicker delivery of upgraded technology.

SECURITY SHARED SERVICES - DEQ plans to take advantage of the Security shared service offering in order to adhere to Commonwealth security standards and policies.

INTERNET UTILIZATION - DEQ anticipates a rise of approximately 20% in its internet usage in the coming 2-5 years due to an increase in online interaction with the public via its eReporting effort, an increase in cloud computing opportunities, an expansion of mobile capabilities, and a general increase in internet usage by staff.

CLOUD APPLICATION HOSTING - DEQ intends to take advantage of cloud computing in the coming years. DEQ has 5 applications which would be cloud computing candidates.

Proposed IT Solutions

In this section, describe the high-level strategy the agency will use to initiate new IT investments over the next year to 5 years in support of the agency strategic objectives documented in your Agency Strategic Plan. The agency does not need to consider specific technologies at this time, however, the strategy should identify how the IT implementation will provide business value to the organization. This section should align with identified Business Requirements for New Technology (BRnTs). At minimum, please address the following questions in your description of your agencys strategy for initiating new IT investments:

What are the most important solutions, based on the priority assigned to the requirements by the business sponsors in your agency, and what is the approach to achieving these priority solutions?

If any new IT initiatives will be started in the upcoming budget biennium, is it the opinion of agency IT leadership that it is adequately funded?

Does the agencys current IT staff have the appropriate skill set needed to support future agency technologies? If not, what skill sets need to be acquired?

If the agency will be engaged in multiple new IT initiatives, how will agency IT staff and agency subject matter

experts be used across the initiatives?

.Net framework is now the foundation for all new CEDS modules as well as other applications. As a result of this strategic plan, the agency is positioned to exploit the web enabled features of the framework which allow access from any internet connection regardless of platform.   Having this framework allows the agency to proactively leverage web enabled applications as the business processes and requirements evolve to take advantage of ?access anywhere? capability. The agency IT staff has the appropriate skill set(s) to support current and future agency technology including technical oversight of IT vendors if needed.

As a result of Logi Ad Hoc reaching end of life, DEQ is reviewing new reporting options, which will also assist in providing additional capabilities to facilitate online interaction with the public.

When engaged in multiple IT efforts , the agency utilizes Agile methodology, an iterative development methodology to efficiently manage project resources, including IT and the business.

Report Title: IT Strategic Plan Budget Tables

Agency: 440 Department of Environmental Quality (DEQ)
Date: 6/16/2020

Current IT Services				
	Costs Year 1		Costs Year 2	
Category	GF	NGF	GF	NGF
Projected Service Fees	$2,312,560.00	$935,354.00	$2,381,937.00	$963,937.00
VITA Infrastructure Changes	$0.00	$0.00	$0.00	$0.00
Estimated VITA Infrastructure	$2,312,560.00	$935,354.00	$2,381,937.00	$963,937.00
Specialized Infrastructure	$0.00	$0.00	$0.00	$0.00
Agency IT Staff	$3,000,000.00	$0.00	$3,000,000.00	$0.00
Non-agency IT Staff	$0.00	$0.00	$0.00	$0.00
Cloud Computing Service	$0.00	$0.00	$0.00	$0.00
Other Application Costs	$0.00	$0.00	$0.00	$0.00
Total	$5,312,560.00	$935,354.00	$5,381,937.00	$963,937.00

Proposed IT Investments				
	Costs Year 1		Costs Year 2	
Category	GF	NGF	GF	NGF
Major IT Projects	$1,146,084.47	$0.00	$0.00	$0.00
Non-Major IT Projects	$0.00	$0.00	$365,000.00	$0.00
Agency-Level IT Projects	$0.00	$1,533,084.12	$0.00	$1,091,942.00
Major Stand Alone IT Procurements	$0.00	$0.00	$0.00	$0.00
Non-Major Stand Alone IT Procurements	$87,264.00	$190,551.33	$0.00	$138,562.50
Agency-Level Stand Alone IT Procurements	$0.00	$0.00	$0.00	$0.00
Procurement Adjustment for Staffing	$0.00	$0.00	$0.00	$0.00
Total	$1,233,348.47	$1,723,635.45	$365,000.00	$1,230,504.50

Projected Total IT Budget				
	Costs Year 1		Costs Year 2	
Category	GF	NGF	GF	NGF
Current IT Services	$5,312,560.00	$935,354.00	$5,381,937.00	$963,937.00
Proposed IT Investments	$1,233,348.47	$1,723,635.45	$365,000.00	$1,230,504.50
Total	$6,545,908.47	$2,658,989.45	$5,746,937.00	$2,194,441.50

Report Title: Business Requirements For Technology

Agency: 440 Department of Environmental Quality (DEQ)

Date: 6/16/2020

440 DEQ BReT Cloud Readiness Assessment 2018 Assessment Database	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/8/2019
Mandate:	Yes
Mission Critical:	Yes
Description:	

Governor Ralph Northam's "Executive Order 19: Cloud Service Utilization and Readiness" requires agencies to take specific actions starting this month and continuing through fall 2019.
The order requires VITA to adopt a model for evaluating and incorporating cloud services into the commonwealth's information technology (IT) strategy and services. VITA has:
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To identify which existing solutions can be migrated to the cloud and ensure all new IT solutions proposed be cloud- issue a hosting standard in the coming weeks. This standard will define terminology and identify requirements agencies must consider when implementing cloud-based IT solutions.

440 DEQ BReT Cloud Readiness Assessment 2018 BMP	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/14/2019
Mandate:	Yes
Mission Critical:	Yes
Description:	

Governor Ralph Northam's "Executive Order 19: Cloud Service Utilization and Readiness" requires agencies to take specific actions starting this month and continuing through fall 2019.
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440 DEQ BReT Cloud Readiness Assessment 2018 Comprehensive Environmental Data System (CEDS)

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/8/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

Governor Ralph Northam's "Executive Order 19: Cloud Service Utilization and Readiness" requires agencies to take specific actions starting this month and continuing through fall 2019.
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440 DEQ BReT Cloud Readiness Assessment 2018 DEQ Intranet (DEQNet)

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/8/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

Governor Ralph Northam's "Executive Order 19: Cloud Service Utilization and Readiness" requires agencies to take specific actions starting this month and continuing through fall 2019.
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440 DEQ BReT Cloud Readiness Assessment 2018 Electronic Discharge Monitoring Report (EDMR)

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/8/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

Governor Ralph Northam's "Executive Order 19: Cloud Service Utilization and Readiness" requires agencies to take specific actions starting this month and continuing through fall 2019.

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440 DEQ BReT Cloud Readiness Assessment 2018 Enterprise Content Management (ECM)

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/8/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

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440 DEQ BReT Cloud Readiness Assessment 2018 EPA Exchange Network (NODE)

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/14/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

Governor Ralph Northam's "Executive Order 19: Cloud Service Utilization and Readiness" requires agencies to take specific actions starting this month and continuing through fall 2019.
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440 DEQ BReT Cloud Readiness Assessment 2018 Geographis Information System (ArcGis)

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/8/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

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440 DEQ BReT Cloud Readiness Assessment 2018 GitLab

BRT Type:	Business Requirement for Existing Technology

Date Submitted:	1/14/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

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440 DEQ BReT Cloud Readiness Assessment 2018 Kofax

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/14/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

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440 DEQ BReT Cloud Readiness Assessment 2018 Logi Reporting

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/14/2019
Mandate:	Yes

Mission Critical:	Yes

Description:	

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440 DEQ BReT Cloud Readiness Assessment 2018 Oracle Financials & HR (eBiz)

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/14/2019
Mandate:	Yes
Mission Critical:	Yes

Description:	

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440 DEQ BReT Cloud Readiness Assessment 2018 PREP

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/14/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

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440 DEQ BReT Cloud Readiness Assessment 2018 PTLOG

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/14/2019
Mandate:	Yes
Mission Critical:	Yes
Description:	

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Included cloud-related services and migration to the new data center in the recently awarded infrastructure contracts
Additionally, VITA and all systems must move from the Commonwealth Enterprise Solutions Center (CESC) in Chester by December of 2021. One related strategy is to reduce the number of physical servicers at CESC to prepare for the move. This means migration to the cloud must be completed by that time. It is imperative to start planning now.
Agencies' IT staff members have been asked to complete cloud assessments and should be using the results to identify resource requirements. VITA encourages agencies to evaluate their resources and discuss resource planning with the appropriate financial staff to ensure work can begin as required. Resource needs should be included requests in the upcoming budget cycle. enabled, VITA will
To identify which existing solutions can be migrated to the cloud and ensure all new IT solutions proposed be cloud- issue a hosting standard in the coming weeks. This standard will define terminology and identify requirements agencies must consider when implementing cloud-based IT solutions.

440 DEQ BReT Cloud Readiness Assessment 2018 Redmine

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/14/2019
Mandate:	Yes
Mission Critical:	Yes
Description:	

Governor Ralph Northam's "Executive Order 19: Cloud Service Utilization and Readiness" requires agencies to take specific actions starting this month and continuing through fall 2019.

The order requires VITA to adopt a model for evaluating and incorporating cloud services into the commonwealth's information technology (IT) strategy and services. VITA has:

Started the process of creating a cloud services model

Begun obtaining information about agency systems that can be migrated to a cloud environment

Provided an overview of the process at the recent agency information technology resources (AITR) meeting

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440 DEQ BReT Cloud Readiness Assessment 2018 SWCGP

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/14/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

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440 DEQ BReT Cloud Readiness Assessment 2018 SWIA

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/14/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

Governor Ralph Northam's "Executive Order 19: Cloud Service Utilization and Readiness" requires agencies to take specific actions starting this month and continuing through fall 2019.

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BReT - CEDS Modernization - Ongoing Enhancements

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2020
Mandate:	No
Mission Critical:	Yes
Description:	

Enhance capability of environmental data tracking by continuing to enhance CEDS based to meet business needs not able to be addressed in the redesign due to VITA CSRM deadline. Ongoing enhancements to meet changes in business needs, new regulations, and increase user efficiency and customer service.

BReT- DEQ Security Audit

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2020
Mandate:	Yes
Mission Critical:	
Description:	

Addressing items found in DEQ Security Audit

BReT - Enterprise Content Management

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2020
Mandate:	No
Mission Critical:	Yes
Description:	

Upgrade and maintenance of the agency's Enterprise Content Management (ECM) System to include upgrading the system to include single sign-on and enhanced ability to integrate seamlessly with the other enterprise applications.

BRnT - Cardinal Interface

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/31/2020
Mandate:	Yes

Mission Critical:	Yes
Description:	
Develop interface from Oracle eBiz to Cardinal for financial and payroll data	

BRnT - Collaboration Tool

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/31/2020
Mandate:	No
Mission Critical:	Yes
Description:	
Implement a collaboration tool to replace DEQNet and enable document sharing.	

BRnT - Data Reporting

BRT Type:	Business Requirement for New Technology
Date Submitted:	7/11/2019
Mandate:	No
Mission Critical:	
Description:	
Create and implement Data Reporting strategy	

BRnT - Enterprise Database Re-engineering

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/31/2020
Mandate:	No
Mission Critical:	No
Description:	
Identify and convert Access databases or spreadsheets containing enterprise and/or agency critical data. The databases/spreadsheets may be stored on local machines and not backed up, putting agency critical data at risk. These entities will be identified, analyzed and systematically converted to the DEQ standard architecture (.net ui/Oracle db) thus securing the data, increasing staff access to data, increasing the accuracy of the data, and increasing the efficiency of staff.	

BRnT - Expand Mobile Capability

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/31/2020
Mandate:	No
Mission Critical:	No
Description:	
Expand the use of mobile capability in DEQ leveraging the new architecture of CEDS.	

BRnT - GIS

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/31/2020
Mandate:	No
Mission Critical:	No
Description:	
Expand use of GIS in agency and increase amount of environmental GIS data available to public.	

BRnT - Grants Management

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/31/2020
Mandate:	Yes
Mission Critical:	No

Description:

Provide for a consolidated, consistent, and efficient way of tracking grants within the agency. Currently multiple programs have grants both received and awarded to external entities. Each program has developed its own method to track these monies. An effort is underway to streamline and standardize grants tracking. The final step in this effort is to provide a system, or consistency between multiple systems, that will accommodate these business processes effectively and efficiently.
This BRnT will cover multiple potential projects over multiple FYs/biennium's as each affected program has variation in program specific requirements, staff availability, and potential funding sources.
Projects currently planned are:
Clean Water Financing & Assistance (CWFA) Processing System

BRnT - Web Re-design

BRT Type:	Business Requirement for New Technology
Date Submitted:	7/11/2019
Mandate:	Yes
Mission Critical:	Yes

Description:

Re-design the existing DEQ website to make it more user friendly

BRnT- DEQ eReporting

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/31/2020
Mandate:	Yes
Mission Critical:	Yes

Description:

Expand required information reporting capability per the EPA eReporting rule and enable ability to apply for permits and interact with the agency electronically to include Web-based permit application process and reporting for the regulated community and enable efficient data retrieval using Business Intelligence technology.

Report Title: IT Strategic Plan Projects

Agency: 440 Department of Environmental Quality (DEQ)
Date: 6/16/2020

Projects
EO19_DEQ_Aggregate_Rehost

Oversight and Governance Category: Category 2: High/Medium or High/Low or Medium/High	**Investment Business Case Approval**
EO19_DEQ_Aggregate_Rehost	

Planned Project Start Date: 12/24/2020		Planned Project End Date: 7/1/2021	
Estimated Costs:	**Total**	**General Fund**	**Nongeneral Fund**
Project Cost	$1,146,084.47	$1,146,084.47	$0.00
Estimated project expenditures first year of biennium:	$0.00	$1,146,084.47	$0.00
Estimated project expenditures second year of biennium:	$0.00	$0.00	$0.00

Project Related Procurements
There are no procurements for this project

Voluntary Remediation Program

Oversight and Governance Category: Category 4: Low/Medium, Low/Low	**Project Initiation Approval**
This project will include the implementation of a secure external web portal based on the current DEQ external portal framework to enable localities and other organizations to submit applications, reports, and other required information electronically. This effort will also include enhancing the CEDS application to enable the internal DEQ Staff to interact with the VRP Staff and then approve/reject applications received within the given time frame.	

Planned Project Start Date: 11/1/2019		Planned Project End Date: 6/15/2020	
Estimated Costs:	**Total**	**General Fund**	**Nongeneral Fund**
Project Cost	$252,203.00	$0.00	$252,203.00
Estimated project expenditures first year of biennium:	$0.00	$0.00	$0.00
Estimated project expenditures second year of biennium:	$0.00	$0.00	$0.00

Project Related Procurements
There are no procurements for this project

Litter Grant

Oversight and Governance Category: Category 4: Low/Medium, Low/Low	Project Initiation Approval

Litter Grants are currently tracked using a MS Excel and utilize manual processes for all applications and reports submitted by new and existing Grant recipients. DEQ as an Agency, has been mandated to remove the reliance on any MS Excel applications   This project will allow the maintenance, integrating, and tracking of Litter Grant details into the Agency?s Comprehensive Environmental Data System, (CEDS). It will also include the implementation of a secure external web portal to enable localities and other organizations to submit applications, reports, and other required information electronically. Integration between CEDS and the External Portal will allow the DEQ Litter Grant Staff to complete the required process once the application has been electronically submitted.

The Litter Grant Staff requires a system that supports their business activities including: electronic submission of applications, reporting of accounting details and performance through an external portal. Current Litter Grant processes are cumbersome, manual, and not integrated with CEDS and lacks ability to produce consolidated reporting. As part of the Litter Grant Program, this project focuses on the Requirements, Design, Development, and Implementation of the Litter Grant System and an External Portal for external users to complete submission of grants.

Planned Project Start Date: 10/24/2019			Planned Project End Date: 8/13/2020

Estimated Costs:	Total	General Fund	Nongeneral Fund
Project Cost	$264,800.00	$0.00	$264,500.00
Estimated project expenditures first year of biennium:	$0.00	$0.00	$0.00
Estimated project expenditures second year of biennium:	$0.00	$0.00	$0.00

Project Related Procurements

Litter Grant Procurement

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Certification Accreditation Tracking System Architecture Upgrade

Oversight and Governance Category: **Category 4: Low/Medium, Low/Low**	**Project Initiation Approval**

This project addresses the development and implementation of the Certification Accreditation Tracking System (CATS), in the new and secured external portal framework, which is CROMERR compliant and supports many external access needs.. This supports the Agency?s goal to update existing external facing applications to meet the new defined process and architecture in compliance with EPA requirements.

Planned Project Start Date: 11/8/2019	Planned Project End Date: 2/21/2020

Estimated Costs:	Total	General Fund	Nongeneral Fund
Project Cost	$374,150.00	$0.00	$374,150.00
Estimated project expenditures first year of biennium:	$0.00	$0.00	$0.00
Estimated project expenditures second year of biennium:	$0.00	$0.00	$0.00

Project Related Procurements

Certification Accreditation Tracking System Procurement

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Report Title: IT Strategic Plan Procurements

Agency: 440 Department of Environmental Quality (DEQ)
Date: 6/16/2020

Stand Alone Procurements:	
Procurement Name:	**Air Quality Monitoring Data Aquisition System**
Procurement Description:	Current contract with IPS MeteoStar is expiring. Via RFP, DEQ would like to procure and implement a new data acquisition system (DAS) solution to poll and display EPA data from ~24 air monitoring locations statewide. This system will be fully outside of the COV network and accessed via the internet.
Procurement Date:	9/1/2017 Multiyear Contract
Procurement Name:	**DEQ Managed Print Services**
Procurement Description:	Obtain Managed Print Services (MPS) from American Business Systems (ABS) via state contract
Procurement Date:	10/31/2016 Multiyear Contract
Procurement Name:	**Website Redesign Procurement**
Procurement Description:	The Virginia DEQ is looking to reframe its online presence. Not only are we looking for a modern look and feel; we want to restructure our web content to make it more user-focused. This is a "services only" procurement using a state approved vendor that is already ECOS approved.
Procurement Date:	5/1/2020