

# CA - PMM

**Proposal Name:** California Environmental Data Exchange Network

**Proposal Priority #:** 6

**Department:** CalEPA State Water Resources Control Board

**Revision Date:** \_\_\_\_\_

## Concept Statement

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### Description

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**Brief description of the proposed project:**

The California Environmental Data Exchange Network (CEDEN) is proposed to facilitate data access, sharing and standardization of the state's environmental monitoring so data can be used interchangeably between multiple monitoring programs and reporting systems. Access to this data will lead to creating applications that convert monitoring data into refined information, which will help the SWRCB convey important aspects of surface water information to the public and legislature using media such as the Web.

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### Need Statement

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**High Level Capabilities Needed:**

State Water Resources Control Board (SWRCB), Regional Water Quality Control Board (RWQCB), other state agencies, university groups, private entities, bond-funded monitoring programs, and stakeholder entities collect large amounts of environmental data; often there is a need for this data to be available to technical/enforcement personnel and decision makers statewide. Unfortunately, the many groups that collect environmental data store them in disparate formats with inconsistent collection procedures, formats, and Quality Assurance Quality Control (QA/QC). CEDEN is being developed to facilitate data sharing, interoperability, integration and access

**What is Driving This Need?**

Development of CEDEN helps the SWRCB meet several strategic goals: Priorities 1,4,6,7 and 8.

**Risk to the Organization if This Work is Not Done:**

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Loss of ambient monitoring data collected by bond funded programs and inability to utilize data from many monitoring entities would continue to hamper several of the water board's business objectives. The lack of a standardized method for ambient water quality data collection and data structures among local, state, Federal, and private entities prevents effective data consolidation and reporting.

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### Benefit Statement

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#### Intangible Benefits

The services provided includes integration, standardization, integration and access to environmental data sets. Staff will no longer need to do this manually for each project they need environmental data for.

#### Other Intangible Benefits:

Standardization of data will improve its quality making for more accurate reporting and analysis

#### Tangible Benefits

#### Revenue Generation (describe how revenue will be generated):

#### Cost Savings (describe how cost will be reduced):

Fewer staff hours will be spent on acquiring data sets

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**Cost Avoidance** (describe the cost and how avoided):

**Risk Avoidance** (describe the risk and how avoided):

Risk is minimized through the federated design of CEDEN, each component can function independently avoiding the risk of having one comprehensive system that either works or fails.

**Improved Services:**

Improved access to data by SWRCB RWQCB staff saving them time to analyze and report on it.

### Consistency

"No" Responses 		Rationale	Action Required
Enterprise Architecture	Yes		
Business Plan	Yes		
Strategic Plan	Yes		

### Impact to Other Agencies

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### Nature of Impact to Other Agencies

<b>Agency:</b>
<i>Describe the nature of the impact:</i>

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### Solution Alternatives

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#### Alternative 1:

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#### Technical Considerations for Alternative 1:

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ROM Cost:

to

Note: high end of range must not exceed 200% of low end of range

#### Alternative 2:

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#### Technical Considerations for Alternative 2:

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ROM Cost:

to

Note: high end of range must not exceed 200% of low end of range

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<b>Alternative 3:</b>

<b>Technical Considerations for Alternative 3:</b>
ROM Cost: _____ to _____ <b>Note: high end of range must not exceed 200% of low end of range</b>

### Recommendation

**Comparison:**

Alternative 1	ROM Cost	Risk
	-	
Alternative 2	ROM Cost	Risk
	-	
Alternative 3	ROM Cost	Risk
	-	

**Conclusions:**

1	
2	
3	
4	

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**Recommendation:**

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### Project Approach *(if known)*

<b>System Complexity:</b>		System Business Hours: <i>(e.g., 24x7, 9am-5pm)</i> : 9-5 M-F	
Architecture	<input type="checkbox"/> Mainframe <input checked="" type="checkbox"/> Client Server <input checked="" type="checkbox"/> Web Based	Num. of New Databases:	1
Technology	<input type="checkbox"/> New <input type="checkbox"/> New to Staff <input checked="" type="checkbox"/> In-House Experience	Interfaces:	
Implementation	<input type="checkbox"/> Central Site <input checked="" type="checkbox"/> Phased Roll-out	Num. of Sites:	
M & O Support	<input type="checkbox"/> Contractor <input type="checkbox"/> Data Center <input type="checkbox"/> Project <input type="checkbox"/> Returned to Sponsor		
Procurement Approach: <i>(consult with OSI Procurement Center)</i>			Number of Procurements:
Open Procurement?		Delegated Procurement?	
Scope of Contract	<input type="checkbox"/> Development <input type="checkbox"/> Implementation <input type="checkbox"/> M & O <input type="checkbox"/> Other:		
Anticipated Length of Contract:	Years /	extensions for	years