



## NORTH COAST RESOURCE PARTNERSHIP 2018/19 IRWM Project Application

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The North Coast Resource Partnership (NCRP) 2018/19 Project Application Instructions and additional information can be found at the NCRP 2018/19 Project Solicitation webpage (<https://northcoastresourcepartnership.org/proposition-1-irwm-round-1-implementation-funding-solicitation/>). Please fill out grey text boxes and select all the check boxes that apply to the project. Application responses should be clear, brief and succinct.

**Project Applications will be accepted until 5:00 pm, March 8, 2019 March 15, 2019.** It is important to save the application file with a distinct file name that references the project name. When the application is complete, please email to [kgledhill@westcoastwatershed.com](mailto:kgledhill@westcoastwatershed.com)

**If you have questions, need additional information or proposal development assistance please contact:**

- Katherine Gledhill at [kgledhill@westcoastwatershed.com](mailto:kgledhill@westcoastwatershed.com) or 707.795.1235
- Tribal Projects: Sherri Norris, NCRP Tribal Coordinator at [sherri@cieaweb.org](mailto:sherri@cieaweb.org) or 510.848.2043

**Project Name:** Mendocino County Coastal MS4 Area Trash Capture Devices

### A. ORGANIZATION INFORMATION

- Organization Name: County of Mendocino**
- Contact Name/Title**  
Name: Sarah Dukett  
Title: Deputy CEO  
Email: [duketts@mendocinocounty.org](mailto:duketts@mendocinocounty.org)  
Phone Number (include area code): 707-463-4441
- Organization Address (City, County, State, Zip Code):**  
501 Low Gap Road, Room 1010, Ukiah, CA 95482
- Organization Type**  
☒ Public agency

- ☐ Non-profit organization
- ☐ Public utility
- ☐ Federally recognized Indian Tribe
- ☐ California State Indian Tribe listed on the Native American Heritage Commission's California Tribal Consultation List
- ☐ Mutual water company
- ☐ Other:

**5. Authorized Representative** (if different from the contact name)

Name: Carmel J. Angelo

Title: Chief Executive Officer

Email: anjeloc@mendocinocounty.org

Phone Number (include area code): 707-463-4441

**6. Has the organization implemented similar projects in the past?** ☐ yes ☒ no  
Briefly describe these previous projects.

**7. List all projects the organization is submitting to the North Coast Resource Partnership for the 2018/19 Project Solicitation in order of priority.**

Sole application

**8. Organization Information Notes:**

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**B. ELIGIBILITY**

**1. North Coast Resource Partnership and North Coast IRWM Objectives**

**GOAL 1: INTRAREGIONAL COOPERATION & ADAPTIVE MANAGEMENT**

☒ Objective 1 - Respect local autonomy and local knowledge in Plan and project development and implementation

☐ Objective 2 - Provide an ongoing framework for inclusive, efficient intraregional cooperation and effective, accountable NCIRWMP project implementation

☐ Objective 3 - Integrate Traditional Ecological Knowledge in collaboration with Tribes to incorporate these practices into North Coast Projects and Plans

**GOAL 2: ECONOMIC VITALITY**

☒ Objective 4 - Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing

☐ Objective 5 - Conserve and improve the economic benefits of North Coast Region working landscapes and natural areas

**GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT**

- ☒ Objective 6 – Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity
- ☐ Objective 7 - Enhance salmonid populations by conserving, enhancing, and restoring required habitats and watershed processes

**GOAL 4: BENEFICIAL USES OF WATER**

- ☐ Objective 8 - Ensure water supply reliability and quality for municipal, domestic, agricultural, Tribal, and recreational uses while minimizing impacts to sensitive resources
- ☐ Objective 9 - Improve drinking water quality and water related infrastructure to protect public health, with a focus on economically disadvantaged communities
- ☐ Objective 10 - Protect groundwater resources from over-drafting and contamination

**GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE**

- ☐ Objective 11 - Address climate change effects, impacts, vulnerabilities, and strategies for local and regional sectors to improve air and water quality and promote public health
- ☐ Objective 12 - Promote local energy independence, water/ energy use efficiency, GHG emission reduction, and jobs creation

**GOAL 6: PUBLIC SAFETY**

- ☐ Objective 13 - Improve flood protection and reduce flood risk in support of public safety

**2. Does the project have a minimum 15-year useful life?**

☒ yes ☐ no

If no, explain how it is consistent with Government Code 16727.

**3. Other Eligibility Requirements and Documentation**

**CALIFORNIA GROUNDWATER MANAGEMENT SUSTAINABILITY COMPLIANCE**

- a) Does the project that directly affect groundwater levels or quality?  
☐ yes ☒ no
- b) If Yes, will the organization be able to provide compliance documentation outlined in the instructions, to include in the NCRP Regional Project Application should the project be selected as a Priority Project?  
☐ yes ☐ no

**CASGEM COMPLIANCE**

- a) Does the project overlie a medium or high groundwater basin as prioritized by DWR?  
☐ yes ☒ no
- b) If Yes, list the groundwater basin and CASGEM priority:
- c) If Yes, please specify the name of the organization that is the designated monitoring entity:
- d) If there is no monitoring entity, please indicate whether the project is wholly located in an economically disadvantaged community.  
☐ yes ☐ no

**URBAN WATER MANAGEMENT PLAN**

- a) Is the organization required to file an Urban Water Management Plan (UWMP)?  
☐ yes ☒ no

- b) If Yes, list the date the UWMP was approved by DWR:
- c) Is the UWMP in compliance with AB 1420 requirements?  
☐ yes      ☐ no
- d) Does the urban water supplier meet the water meter requirements of CWC 525?  
☐ yes      ☐ no
- c) If Yes, will the organization be able to provide compliance documentation outlined in the instructions, to include in the NCRP Regional Project Application should the project be selected as a Priority Project?  
☐ yes      ☐ no

#### AGRICULTURAL WATER MANAGEMENT PLAN

- a) Is the organization – or any organization that will receive funding from the project – required to file an Agricultural Water Management Plan (AWMP)?  
☐ yes      ☒ no
- b) If Yes, list date the AWMP was approved by DWR:
- c) Does the agricultural water supplier(s) meet the requirements in CWC Part 2.55 Division 6?  
☐ yes      ☐ no

#### SURFACE WATER DIVERSION REPORTS

- a) Is the organization required to file surface water diversion reports per the requirements in CWC Part 5.1 Division 2?  
☒ yes      ☐ no
- d) If Yes, will the organization be able to provide SWRCB verification documentation outlined in the instructions, to include in the NCRP Regional Project Application should the project be selected as a Priority Project?  
☒ yes      ☐ no

#### STORM WATER MANAGEMENT PLAN

- a) Is the project a stormwater and/or dry weather runoff capture project?  
☒ yes      ☐ no
- b) If yes, does the project benefit a Disadvantaged Community with a population of 20,000 or less?  
☒ yes      ☐ no
- e) If No, will the organization be able to provide documentation that the project is included in a Stormwater Resource Plan that has been incorporated into the North Coast IRWM Plan, should the project be selected as a Priority Project?  
☐ yes      ☐ no

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## C. GENERAL PROJECT INFORMATION

### 1. Project Name: Mendocino County Coastal MS4 Area Trash Capture Devices

### 2. Eligible Project Type under 2018/19 IRWM Grant Solicitation

- ☐ Water reuse and recycling for non-potable reuse and direct and indirect potable reuse
- ☐ Water-use efficiency and water conservation

- ☐ Local and regional surface and underground water storage, including groundwater aquifer cleanup or recharge projects
- ☐ Regional water conveyance facilities that improve integration of separate water systems
- ☐ Watershed protection, restoration, and management projects, including projects that reduce the risk of wildfire or improve water supply reliability
- ☒ Stormwater resource management projects to reduce, manage, treat, or capture rainwater or stormwater
- ☒ Stormwater resource management projects that provide multiple benefits such as water quality, water supply, flood control, or open space
- ☐ Decision support tools that evaluate the benefits and costs of multi-benefit stormwater projects
- ☐ Stormwater resource management projects to implement a stormwater resource plan
- ☐ Conjunctive use of surface and groundwater storage facilities
- ☐ Decision support tools to model regional water management strategies to account for climate change and other changes in regional demand and supply projections
- ☐ Improvement of water quality, including drinking water treatment and distribution, groundwater and aquifer remediation, matching water quality to water use, wastewater treatment, water pollution prevention, and management of urban and agricultural runoff
- ☐ Regional projects or programs as defined by the IRWM Planning Act (Water Code §10537)
- ☐ Other:

### 3. Project Abstract

The project will result in diversion of trash from watercourses via installation of full capture devices within County storm drain infrastructure. Major components and project goals include: device selection, development of installation workplans and schematics, and device installation. The intended outcome of the project is diversion of 100% of trash from storm drains receiving devices, limiting the potential for ecosystem degradation, and improving the recreational value of receiving waters.

### 4. Project Description

The proposed project will support the planning for and installation of full capture system trash capture devices at 7 locations identified within the County of Mendocino (County) Municipal Separate Storm Sewer System jurisdictional area (MS4 Area) with the goal of diverting trash from stormwater runoff that enters the County storm drain network from specified land use areas. This project has been proposed in response to an unfunded mandate issued by the State Water Resources Control Board (SWRCB) in 2017. As a permittee under the National Pollutant Discharge Elimination System (NPDES) Phase II MS4 permit (Phase II), within the County MS4 Area, the County must comply with the Water Code Section 13383 Order (Trash Amendments) and prohibit the discharge of trash from priority land use areas, as defined in the Trash Provisions, to water bodies of the State. The County has chosen the Track 1 method of compliance, which will require the installation, operation, and maintenance of a full capture system at each identified location. The project intends to capture and remove trash from the County storm drain network before it can enter nearby watercourses, in order to reduce the potential for water quality degradation and habitat impairment and meet the water quality standards for trash established in the Trash Amendments and mandated by the federal Clean Water Act, Section 303(c). The project will be implemented through the Mendocino County Department of Transportation (MCDOT) and will include selecting a trash capture device for each location, establishing device-specific installation requirements and timelines for installation, device installation and associated infrastructure improvements, and grant administration. The expected benefits include: a reduction of contaminants in the affected watercourses, avoidance of clean-up costs incurred by local entities, an increase in public recreation within the affected area, and an increase in the health and safety of the public.

## **5. Specific Project Goals/Objectives**

Goal 1: Select a full capture system trash capture device for each proposed device location.

Goal 1 Objective: Delineate entire contributing subdrainage area for each device location and perform hydrologic calculations to estimate flows during the one-year, one-hour storm.

Goal 1 Objective: Evaluate existing infrastructure and create an existing infrastructure evaluation summary for each device location, to include permitting requirements, and cost estimates for installation.

Goal 1 Objective: Select a device for each location based on existing infrastructure evaluation summary and hydrology calculations.

Goal 1 Objective:

Goal 2: Develop device specific device installation requirements and sequence of installation.

Goal 2 Objective: Using infrastructure evaluation summary, develop detailed workplan for device purchasing and installation for each location, including installation design documents and installation prioritization.

Goal 2 Objective: Secure necessary permits for each device installation location, as required, as determined during Goal 1.

Goal 2 Objective:

Goal 2 Objective:

Goal 3: Complete project implementation

Goal 3 Objective: Develop contractor solicitation package and solicit contractor for device installation.

Goal 3 Objective: Construct infrastructure improvements and install devices.

Goal 3 Objective:

### **Additional Goals & Objectives (List)**

Comply with grant award administrative requirements

Goal 4 Objective: Develop monitoring plan including goals and measurable objectives

Goal 4 Objective: Develop quarterly progress reports on project status per DWR requirements

Goal 4 Objective: Submit project invoicing for reimbursement per DWR requirements

Goal 4 Objective: Submit draft project completion report no later than 90 days after project completion per DWR requirements

Goal 4 Objective: Submit final project completion report integrating DWR comments per DWR requirements

## **6. Describe how the project addresses the North Coast Resource Partnership and North Coast IRWM Plan Goals and Objectives selected.**

Project addresses Objectives 1, 4, and 6.

Objective 1: Though a SWRCB mandate, the County has flexibility to determine locations for devices within the MS4 area. The project proposes devices at the optimal and most feasible locations as determined by MCDOT and consulting stormwater professionals, leveraging existing knowledge of storm drain infrastructure plus the benefit of local consultant expertise.

Objective 4: The project supports diversion of trash from watercourses within an SDAC. This project is especially critical in the coastal MS4 area, as the natural resources present generate tourism, a key economic driver of the region.

Objective 6: Trash discarded on land frequently ends up in waterways and the ocean as wind and rainstorms transport it to storm drains thence creeks and rivers. Trash in waterways adversely affects

beneficial uses of water, including threats to aquatic life and wildlife. Diverting trash from waterways will yield beneficial impacts to aquatic ecosystems.

**7. Describe the need for the project.**

As noted in the Project Description, the project has been proposed in response to the Trash Amendments which seek to address the growing presence of trash in coastal and inland California waterways by establishing specific trash-related water quality objectives, including a prohibition on the discharge of trash directly or indirectly into these bodies of water from the County MS4 jurisdictional area. As the state mandate is unfunded, it places a substantial burden on County resources. In addition, in the coastal waterbodies affected by the proposed project, trash, particularly plastics, is a prevalent hazard for the critical species identified in Question C.17. The project will not only enable the County to comply with the unfunded mandate, but also reduce the impact of trash on the sensitive coastal environment, increasing the long-term viability of the coastal resources and promoting the beneficial uses of the watershed outlined in the Mendocino County Coastal SWRP.

**8. List the impaired water bodies (303d listing) that the project benefits:**

The project benefits the Noyo River watershed, which is listed on the 303d list due to water quality impairment from excess sediment, high water temperature, and non-point source pollution.

**9. Will this project mitigate an existing or potential Cease and Desist Order or other regulatory compliance enforcement action?** ☐ yes ☒ no

If so, please describe?

**10. Describe the population served by this project.**

The project will take place in an SDAC. The project is located south of Fort Bragg in Census Tract 104 (population: 3,318 [2010 Census]). The major sources of local employment are health care, tourism, retail, education and fishing/agriculture. Median household income is \$34,000, well below the national median. Project provides direct SDAC benefits in the form of cleaner river and ocean recreation areas and healthier ecosystems, which support tourism and natural resource values in the area.

**11. Does the project provide direct water-related benefits to a project area comprised of Disadvantaged Communities or Economically Distressed Communities?**

- ☒ Entirely
- ☐ Partially
- ☐ No

**List the Disadvantaged Community(s) (DAC)**

County of Mendocino unincorporated areas surrounding the City of Fort Bragg (see attached project mapping)

**12. Does the project provide direct water-related benefits to a project area comprised of Severely Disadvantaged Communities (SDAC)?**

- ☒ Entirely
- ☐ Partially
- ☐ No

**List the Severely Disadvantaged Community(s)**

County of Mendocino Unincorporated areas surrounding the City of Fort Bragg (see attached project mapping)

**13. Does the project provide direct water-related benefits to a Tribe or Tribes?**

- ☐ Entirely
- ☐ Partially
- ☒ No

**List the Tribal Community(s)**

If yes, please provide evidence of support from each Tribe listed as receiving these benefits.

**14. If the project provides benefits to a DAC, EDA or Tribe, explain the water-related need of the DAC, EDA or Tribe and how the project will address the described need.**

Benefits to the SDAC include improvement of river and near-shore ocean water quality. The project will support the health of salmon and other fish caught as a food source by some area residents. Salmon are among the species most at risk of plastic pollution, which not only impairs fish health, but also can be ingested by people eating the fish. Overall, ecological impacts of pollution and other contaminants transported by trash are felt first by disadvantaged and at-risk communities. Impacts from contaminants result in reduced positive health and recreation benefits associated with coastal access and coastal resources, which for some represent the only low-cost recreation options in the area. Ecosystem health and public health are inextricably intertwined; as such, the benefits of this project are likely to result in notable but difficult to quantify public health benefits for the local community in addition to ecosystem benefits.

**15. Does the project address and/or adapt to the effects of climate change? Does the project address the climate change vulnerabilities in the North Coast region?** ☐ yes ☒ no

If yes, please explain.

**16. Describe how the project contributes to regional water self-reliance.**

Due to the nature of the project, no benefits to the water supply of the region are anticipated; however, the project will provide water quality-related benefits, as described throughout this application.

**17. Describe how the project benefits salmonids, other endangered/threatened species and sensitive habitats.**

Federally endangered/threatened coho salmon, tidewater goby, chinook salmon and northern steelhead in the project area will directly benefit from the project. These sensitive species are at risk of ingestion of or entanglement in trash suspended in aquatic habitat. In addition, trash may disrupt key ecosystem functions, degrading or altering sensitive habitats for these species. By reducing the quantity of trash reaching these sensitive ecosystems, the potential negative impacts will be reduced.

**18. Describe local and/or political support for this project.**

County of Mendocino is proposing the project and represents political support. Local support for the project has not been solicited due to limited flexibility in project implementation based on state-mandated requirements. While local support was not solicited for this project, local groups such as the Mendocino Land Trust and the Mendocino County Resource Conservation District, have historically supported events to remove trash deposited in and near the waterways affected by this project.



**19. List all collaborating partners and agencies and nature of collaboration.**

Project will be completed by County of Mendocino Water Agency and Department of Transportation

**20. Is this project part or a phase of a larger project?** ☒ yes ☐ no

**Are there similar efforts being made by other groups?** ☒ yes ☐ no

**If so, please describe?**

The project is part of a larger project which will also install trash capture devices in the MS4 area surrounding the City of Ukiah. County staff will leverage the materials generated from this project when implementing devices within the Ukiah MS4 area in subsequent years. In addition, the City of Ft. Bragg is installing devices within its MS4 area and County staff has corresponded with City of Ft. Bragg staff regarding research, cost estimating, and best practices for device implementation.

**21. Describe the kind of notification, outreach and collaboration that has been done with the County(ies) and/or Tribes within the proposed project impact area, including the source and receiving watersheds, if applicable.**

This project is included in the Coastal Mendocino County Storm Water Resource Plan (SWRP) and has therefore been reviewed and prioritized by members of the SWRP Technical Advisory Committee with interest in the affected watershed. Individual outreach within the proposed project area has not been completed, as the project will be principally located in and cause impacts to existing County storm drain infrastructure within the County Right-of-Way and the MCDOT is the primary project proponent.

**22. Describe how the project provides a benefit that meets at least one of the Statewide Priorities as defined in the 2018 IRWM Grant Program Guidelines and Tribal priorities as defined by the NCRP?**

The project meets statewide priority number four: protect and restore important ecosystems. By diverting trash from waterways, the project will protect ecosystems from degradation and impaired function. The SWRCB Staff Report justifying the trash capture mandate provides a wide range of impacts to aquatic life and ecosystems from trash in watercourses and other aquatic habitat (see pages A2-3). These impacts include interference with ecosystem function under all listed habitat types and beneficial uses, further highlighting the impacts to ecosystems caused by trash and emphasizing the alignment of this project with statewide priorities.

**23. Project Information Notes:**

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**D. PROJECT LOCATION**

**1. Describe the location of the project**

Geographical Information

**Trash capture device locations have been identified as shown on the enclosed project mapping. The project will be conducted within the MS4 boundary in the unincorporated areas to the south of the City of Fort Bragg.**

**2. Site Address (if relevant):**

N/A

**3. Does the applicant have legal access rights, easements, or other access capabilities to the property to implement the project?**

☒ Yes If yes, please describe

☐ No If No, please provide a clear and concise narrative with a schedule, to obtain necessary access.

☐ NA If NA, please describe why physical access to a property is not needed.

Proposed infrastructure improvements will be constructed within storm drain infrastructure located within the County Road Right of Way.

**4. Project Location Notes:**

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**E. PROJECT TASKS, BUDGET AND SCHEDULE**

**1. Projected Project Start Date: 3/1/20**

**Anticipated Project End Date:** November 2021

**2. Will CEQA be completed within 6 months of Final Award?**

☐ Yes

State Clearinghouse Number:

☐ NA, Project is exempt from CEQA

☐ NA, Not a Project under CEQA

☒ NA, Project benefits entirely to DAC, EDA or Tribe, or is a Tribal local sponsor. [Projects providing a water-related benefit entirely to DACs, EDAs, or Tribes, or projects implemented by Tribes are exempt from this requirement].

☐ No

**3. Please complete the CEQA Information Table below**

Indicate which CEQA steps are currently complete and for those that are not complete, provide the estimated date for completion.

CEQA STEP	COMPLETE? (y/n)	ESTIMATED DATE TO COMPLETE
Initial Study		
Notice & invitation to consult sent to Tribes per AB52		
Notice of Preparation		
Draft EIR/MND/ND		
Public Review		
Final EIR/MND/ND		
Adoption of Final EIR/MND/ND		
Notice of Determination		
N/A - not a CEQA Project	N/A	

If additional explanation or justification of the timeline is needed or why the project does not require CEQA, please describe.

The project is exempt from CEQA requirements per Title 14, Section 15302 – Replacement or Reconstruction (c), which states that projects involving the “replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity.” The proposed storm drain infrastructure improvements will not change the location or increase capacity of currently existing infrastructure.

**4. Will all permits necessary to begin construction be acquired within 6 months of Final Award?**

- ☐ Yes  
☒ NA, Project benefits entirely to DAC, EDA, Tribe, or is a Tribal local sponsor  
☐ No

**5. PERMIT ACQUISITION PLAN**

Type of Permit	Permitting Agency	Date Acquired or Anticipated
404 Nationwide Permit	U.S. Army Corps of Engineers	
LSAA	CA Dept. of Fish and Wildlife	
401 Water Quality Cert.	State Water Board	

**For permits not acquired: describe actions taken to date and issues that may delay acquisition of permit.**

At this time, it is anticipated that no permits will be necessary to complete the project as all trash capture devices and associated infrastructure improvements are expected to be located within the footprint of existing infrastructure; however, a full analysis of permitting requirements will be made during the project task that includes a review of existing infrastructure at each proposed site location.

**6. Describe the financial need for the project.**

The project satisfies an unfunded mandate from the State. While the County of Mendocino will include the project in capital improvement plans and budget future costs to implement moving forward, project would divert resources from existing projects and maintenance. Supplementing initial project implementation with grant funding will allow the County to budget future costs in subsequent fiscal years and limit deferred maintenance and delaying of other projects during the initial implementation.

**7. Is the project budget scalable?** ☒ yes ☐ no

**Describe how a scaled budget would impact the overall project.**

Scaling the project budget would impact the number of devices to be installed during the implementation phase.

**8. Describe the basis for the costs used to derive the project budget according to each budget category.**

Hourly costs for staff time are derived from current DOT rates; consultant costs are based on the rate schedule of a local consultant and representative of professional service costs in the region. Costs for project construction are based on device installation costs in other municipalities with an allowance for infrastructure improvements at each device location. Current construction cost estimates are aggressive and may decrease after existing infrastructure evaluation is completed.

**9. Provide a narrative on cost considerations including alternative project costs.**

Two trash capture compliance tracks are accepted: Track One consists of installing full capture devices; Track Two consists of a combination of full capture devices, multi-benefit projects, treatment controls, and institutional controls. The SWRCB requires full capture devices be installed wherever non-cost-prohibitive even under Track Two. Therefore, Track Two compliance would closely resemble Track One while also requiring additional monitoring and reporting. As such, Track One was selected.

**10. List the sources of non-state matching funds, amounts and indicate their status.**

The County of Mendocino has invested approximately \$27,585 in this project to this point through staff time and work by a consultant during the 2018-2019 fiscal year. Of that total, \$4,225 represents staff time and \$23,359 represents consultant expenditures. These costs represent expenditures to evaluate priority land use areas draining to the MS4 and storm drain infrastructure and select preliminary device locations, including generating mapping for submittal to the SWRCB.

**11. List the sources and amount of state matching funds.**

No state matching funds have been received for this project and none are pending. The State did not make any specific funding available for complying with this mandate, and this is the first grant funding stream the County of Mendocino has pursued for this project to this point.

**12. Cost Share Waiver Requested (DAC or EDA)?** ☒ yes ☐ no

Cost Share Waiver Justification: Describe what percentage of the proposed project area encompasses a DAC/EDA, how the community meets the definition of a DAC/EDA, and the water-related need of the DAC/EDA that the project addresses. In order to receive a cost share waiver, the applicant must demonstrate that the project will provide benefits that address a water-related need of a DAC/EDA.

A 100% cost share waiver is requested for this project because the project will entirely benefit a severely disadvantaged community. The project is contained entirely within the following census block groups: 060450105004 (MHI \$18,359) and 060450110025 (MHI \$34,018). The proposed project will divert trash from watercourses and receiving waters within these block groups, thereby improving water quality for community recreation activities and enhancing the values of natural resources, with the co-benefit of maintaining the value of tourism as an economic driver for the region.

**13. Major Tasks, Schedule and Budget for NCRP 2018 IRWM Project Solicitation**

Please complete MS Excel table available at <https://northcoastresourcepartnership.org/proposition-1-irwm-round-1-implementation-funding-solicitation/>; see instructions for submitting the required excel document with the application materials.

**14. Project Tasks, Budget and Schedule Notes:**

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**F. PROJECT BENEFITS & JUSTIFICATION**

**1. Does the proposed project provide physical benefits to multiple IRWM regions or funding area(s)?**

☐ yes ☒ no

If Yes, provide a description of the impacts to the various regions.

- 2. Provide a narrative for project justification. Include any other information that supports the justification for this project, including how the project can achieve the claimed level of benefits. List any studies, plans, designs or engineering reports completed for the project. Please see the instructions for more information about submitting these documents with the final application.**

The requirements established by the SWRCB for complying with Water Code Section 13383 provided the technical basis for the project. The 13383 order indicates that devices must be installed to capture trash generated by priority land use areas: high density residential, industrial, commercial, mixed urban, and public transportation stations. After these areas were identified, contributing drainage areas were mapped and flow patterns analyzed to determine which priority land use areas drain to the MS4 area, including identifying existing storm drain infrastructure such as inlets and outfalls. After mapping these features, device locations were selected based on drainage areas, stormwater flow paths, and outlet locations. The selected locations are shown on the mapping enclosed with this submittal. The SWRCB establishes a list of approved full capture devices and specific devices will be selected from that database. These devices are considered by the SWRCB to implement 100% capture of trash in storm drains and therefore represent the method by which the project will achieve the claimed benefits. The benefits claimed for this project are difficult to quantify, as a precise analysis of the total amount of trash generated via the storm drain system and contributed to waterways in the project area has not been conducted, nor is it feasible to estimate the total trash contributed in these areas annually.

Benefits claimed and a brief justification for each are included below:

**Bacteria and Contaminant Reduction:** trash can entangle or be ingested by wildlife and contribute to both aquatic and terrestrial habitat alteration and degradation, thereby impairing ecosystem function. While diversion of trash will not avoid any future habitat restoration projects, it does provide biophysical value to ecosystems.

**Avoided Clean-up Costs:** in September 2018, 46 volunteers (<http://tinyurl.com/y3nch4mw>) spent a total of 368 man-hours during Coastal Cleanup day collecting trash on the Noyo River and within Noyo Harbor. Diverting trash from waterways via full capture devices will impact the level of effort required during Coastal Cleanup days. Using a \$24.69 per hour value of volunteer time as established by [independentsector.org](http://independentsector.org), the Noyo River portion of Coastal Cleanup day yields \$9,086 of value. Limiting trash deposited to these waterways via the storm drain would limit the cleanup effort required annually. The value of this reduction is estimated at 50% of the total value of the Noyo River/Harbor Coastal Cleanup day, or \$4,543 annually.

**Increased quality of recreation/public access:** tourism is a significant driver of the Fort Bragg area economy. In the 2018-19 budget, tourism occupancy tax revenue, a proxy for overall tourism spending, represented 29% of general fund revenue. Preventing degradation of beaches and waterways through trash capture will maintain the value of this significant portion of the local economy and facilitate future economic growth in the region

- 3. Does the project address a contaminant listed in AB 1249 (nitrate, arsenic, perchlorate, or hexavalent chromium)?** ☐ yes ☒ no

If yes, provide a description of how the project helps address the contamination.

- 4. Does the project provide safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes consistent with AB 685?** ☐ yes ☒ no

If Yes, please describe.

5. Does the project employ new or innovative technologies or practices, including decision support tools that support the integration of multiple jurisdictions, including, but not limited to, water supply, flood control, land use, and sanitation? ☐ yes ☒ no

If Yes, please describe.

6. For each of the Potential Benefits that the project claims complete the following table to describe an estimate of the benefits expected to result from the proposed project. [See the NCRP Project Application Instructions, Potential Project Benefits Worksheet and background information to help complete the table. The NCRP Project Application, Attachment B includes additional guidance, source materials and examples from North Coast projects.]

**PROJECT BENEFITS TABLE**

Potential Benefits Description	Physical Amt of Benefit	Physical Units	Est. Economic Value per year	Economic Units
<b>Water Supply</b>				
N/A				
<b>Water Quality</b>				
Bacteria or Contaminant Reduction	See F.2. narrative			
Avoided Clean-Up Costs	See F.2. narrative		\$4,543	Volunteer hours/year
<b>Other Ecosystem Service Benefits</b>				
<b>Other Benefits</b>				
Increased Quantity or Quality of Recreation or Public Access	See F.2. narrative			

Potential Benefits Description	Physical Amt of Benefit	Physical Units	Est. Economic Value per year	Economic Units

**7. Project Justification & Technical Basis Notes:**

## Major Tasks, Schedule and Budget for North Coast Resource Partnership 2018/19 IRWM Project Solicitation

Project Name: Mendocino County Coastal MS4 Area Trash Capture Devices  
 Organization Name: County of Mendocino

Task #	Major Tasks	Task Description	Major Deliverables	Current Stage of Completion	IRWM Task Budget	Non-State Match	Total Task Budget	Start Date	Completion Date
<b>A Category (a): Direct Project Administration</b>									
1	Administration	In cooperation with the County of Humboldt sign a sub-grantee agreement for work to be completed on this project. Develop invoices with support documentation. Provide audited financial statements and other deliverables as required	Invoices, audited financial statements and other deliverables as required	0%	\$20,336.00	\$0.00	\$20,336.00	3/1/20	8/2/21
2	Monitoring Plan	Develop Monitoring Plan to include goals and measurable objectives	Final Monitoring Plan	0%	\$12,000.00	\$0.00	\$12,000.00	3/1/20	4/1/20
3	Labor Compliance Program	Execute service agreement with Labor Compliance Program company	Submission of Labor Compliance Program	0%	\$10,000.00	\$0.00	\$10,000.00	3/1/20	4/1/20
4	Reporting	Develop monthly reports describing work completed, challenges, and strategies for reaching remaining project objectives. Develop Final Report	Quarterly and Final Reports	0%	\$10,168.00	\$0.00	\$10,168.00	3/1/20	8/2/21
<b>B Category (b): Land Purchase/Easement</b>									
1	N/A	N/A	N/A	0%	\$0.00	\$0.00	\$0.00	N/A	N/A
<b>C Category (c): Planning/Design/Engineering/Environmental Documentation</b>									
1	Pre-Award Activities	Developing preliminary mapping of priority land use areas draining to the MS4 and selecting preliminary device locations	See mapping submitted with application packet	100%	\$0.00	\$27,585.00	\$27,585.00	6/1/18	12/3/18
2	Consultant Contracting	Develop solicitation and select consultant to complete work	Contract with selected consultant	0%	\$6,200.00	\$0.00	\$6,200.00	3/1/20	4/15/20
3	Hydrology Calculations	Identify overall drainage area contributing runoff to each device location and estimate flows during the 1-year, 1-hour storm	Hydrology Calculations	0%	\$21,000.00	\$0.00	\$21,000.00	4/16/20	5/30/20
4	Existing Infrastructure Evaluation	Evaluate existing infrastructure at preliminary device locations and generate existing infrastructure evaluation summary (includes permitting requirements and site specific cost estimates)	Existing infrastructure evaluation summaries	0%	\$16,800.00	\$0.00	\$16,800.00	5/30/20	6/30/20
5	Device Selection	Review device options and select appropriate device type for each location; estimate total cost of installation	List of device selections for each location and summary of overall installation costs	0%	\$8,400.00	\$0.00	\$8,400.00	7/1/20	7/22/20
6	Installation workplans and design documents	Create site-specific installation workplans, design documents, and installation prioritization	Workplans and design plans for each site including installation prioritization	0%	\$42,000.00	\$0.00	\$42,000.00	7/22/20	10/22/20
7	Environmental Documentation: CEQA *	Develop and file CEQA NOE	CEQA NOE with proof of filing	0%	\$3,750.00	\$0.00	\$3,750.00	11/1/20	12/8/20
8	Permit Development: as needed	Secure permits necessary for implementation which may include a CDFW LSAA, Army Corp 404 permit, Coastal Development Permit, or a SWRCB 401 permit	Issued permits as required	0%	\$24,000.00	\$0.00	\$24,000.00	11/1/20	1/30/21
<b>D Category (d): Construction/Implementation</b>									
1	Construction/Implementation Contracting	Develop solicitation and select contractor to complete work	Contract with selected contractor	0%	\$6,200.00	\$0.00	\$6,200.00	4/1/21	5/15/21
2	Mobilization and Site Preparation	Mobilize contractor equipment and prepare sites for construction	N/A	0%	\$28,000.00	\$0.00	\$28,000.00	5/16/21	5/23/21
3	Project Construction	Construct necessary infrastructure improvements and install devices at each site	N/A	0%	\$280,000.00	\$0.00	\$280,000.00	5/24/21	9/24/21
4	Project Signage	Locations are not feasible for sign installation due to limited space in the right of way. Project will instead acknowledge funding credit through a press release in the Fort Bragg Advocate News	Press release and proof of publishing	0%	\$1,000.00	\$0.00	\$1,000.00	5/24/21	5/25/21
5	Project Close Out, Inspection & Demobilization	Inspect project components and establish that work is complete. Verify that project components have been installed and function as specified. Conduct photo monitoring. Prepare record drawings.	As-Built and Record Drawings; Project completion site photos	0%	\$49,500.00	\$0.00	\$49,500.00	9/25/21	11/25/21
6	Project Performance Monitoring	The performance of the project will be monitored in accordance to the Monitoring Plan using the following measurement tools and methods: visual observations of devices and cleanout as necessary	Visual observation reports of device function and documentation of maintenance activities	0%	\$0.00	\$10,416.00	\$10,416.00	11/26/21	11/26/24



Project Name: Mendocino County Coastal MS4 Area Trash Capture Devices  
 Organization Name: County of Mendocino

Task #	Major Tasks	Task Description	Major Deliverables	Current Stage of Completion	IRWM Task Budget	Non-State Match	Total Task Budget	Start Date	Completion Date
7	Construction Administration	Complete tasks necessary to administer construction contract. Keep daily records of construction activities, inspection, and progress. Conduct project construction photo-monitoring.	Construction Management Logs; Completed construction administration tasks documented in monthly progress reports	0%	\$42,000.00	\$0.00	\$42,000.00	5/16/21	9/25/21
	<b>Total North Coast Resource Partnership 2018/19 IRWM Grant Request</b>				<b>\$581,354.00</b>	<b>\$38,001.00</b>	<b>\$619,355.00</b>		
	Is Requested Budget scalable by 25%? If yes, indicate scaled totals; if no delete budget amount provided.				<b>\$436,015.50</b>	<b>\$28,500.75</b>	<b>\$464,516.25</b>		
	Is Requested Budget scalable by 50%? If yes, indicate scaled totals; if no delete budget amount provided.				<b>\$290,677.00</b>	<b>\$19,000.50</b>	<b>\$309,677.50</b>		

## Major Tasks, Schedule and Budget for North Coast Resource Partnership 2018/19 IRWM Project Solicitation

**Project Name:** Mendocino County Coastal MS4 Area Trash Capture Devices

**Organization Name:** County of Mendocino

### Budget Detail

Row (a) Direct Project Administration Costs						
Project Management Type	Personnel by Discipline	Number of Hours	Hourly Wage	% of Cost (if applicable) *	Total Admin Cost	
Administration	DOT Staff	328	\$62		\$20,336	82 weeks x 4 hours per week
Monitoring Plan Dev	consultant	80	\$150		\$12,000	Estimate
Labor Compliance Program	LCP Consultant	80	\$125		\$10,000	Estimate
Reporting	DOT Staff	164	\$62		\$10,168	82 weeks x 2 hours per week
<b>Total</b>					<b>\$52,504</b>	
* What is the percentage based on (including total amounts)?		n/a				
* How was the percentage of cost determined?		n/a				

Row (b) Land Purchase/Easement

Row (c) Planning/Design/Engineering & Environmental Documentation						
Personnel (Discipline)	Major Task Name	Number of Hours	Hourly Wage	Total Cost		
DOT Staff/Consultant	Pre Award Costs	-	-	\$27,585		
DOT Staff	Consultant contracting	100	62	\$6,200		estimate
Consultant	Hydrology Calculations	140	\$150	\$21,000		20 hours per device
Consultant	Existing Infrastructure Evaluation	112	\$150	\$16,800		16 hours per device for 7 devices
Consultant	Device Selection	56	\$150	\$8,400		8 hours per device location for 7 devices
Consultant	Installation workplans and design documents	280	\$150	\$42,000		40 hours per device for 7 devices
Consultant	CEQA NOE	25	\$150	\$3,750		estimate

Major Tasks, Schedule and Budget for North Coast Resource Partnership 2018/19 IRWM Project Solicitation

Project Name: Mendocino County Coastal MS4 Area Trash Capture Devices  
Organization Name: County of Mendocino

Consultant	Permit Development	160	\$150	\$24,000	
Total				\$122,150	

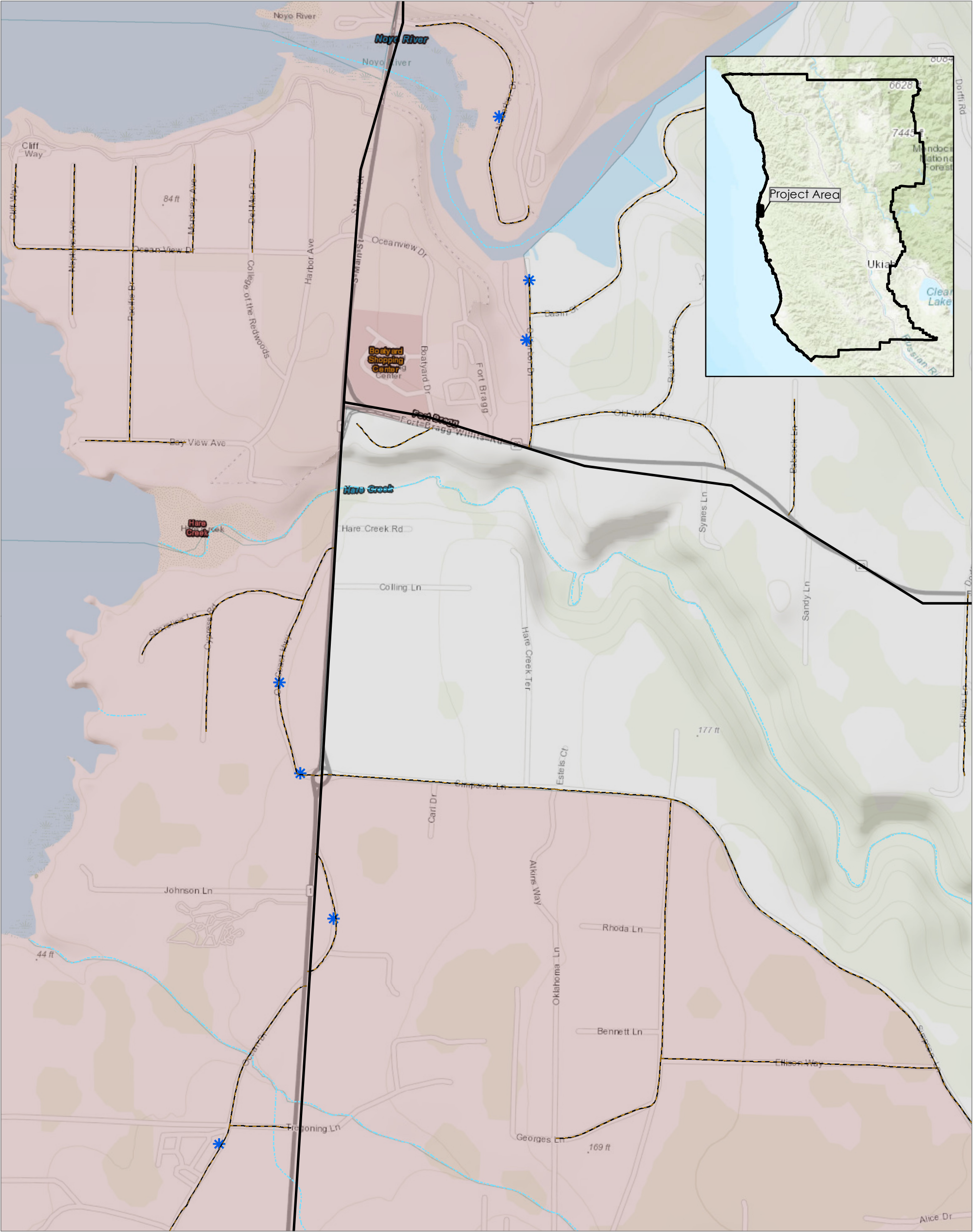
Estimate (two agency permits max; could be 0)

Row (d) Construction/Implementation				
Personnel (Discipline)	Work Task and Sub-Task (from Work Task Table)	Number of Hours	Hourly Wage	Total Cost
DOT Staff	Construction/Implementation Contracting	100	62	\$6,200
Contractor	Mobilization and Site Prep	-	-	\$28,000
Contractor	Project Construction	-	-	\$280,000
Consultant	Project Signage	10	\$100	\$1,000
consultant	Project Closeout	120	150	\$18,000
Consultant	Record Drawings	210	150	\$31,500
DOT Staff	Performance Monitoring	168	62	\$10,416
Consultant	Construction Admin	-	-	\$42,000
Total				\$406,700.00

Estimate  
  
10% of construction costs  
  
\$15k infrastructure improvements per location and \$25k device costs per location  
run press release  
  
30 hours per device  
  
8 hours per device per year for 3 yr monitoring period  
  
15% of construction costs

Total grant request \$581,354.00

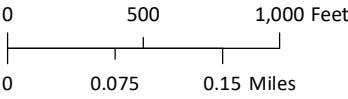
# Mendocino County Coastal MS4 Area Trash Capture Devices



Map produced March 2019  
Coordinate System: NAD 83, Calif. State Plane Zone II  
Projection: Lambert Conformal Conic  
Parcel Data: Mendocino County Information Services, October, 2017  
Aerial Imagery: US Dept. of Agriculture/ArcGIS Online mosaic  
Topographic Data: USGS 7.5 minute quad series Mount Diablo Base & Meridian  
Parcel numbers are for tax purposes only and do not represent legal or salable parcels.  
All spatial data is approximate. This map is not a substitute for a proper land survey.

## Legend

- Proposed Device Location
- Watercourse
- County Road
- State Highway
- Severely Disadvantaged Community
- Disadvantaged Community



1:8,471