



NORTH COAST RESOURCE PARTNERSHIP 2018/19 IRWM Project Application

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. 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

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

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

Project Name: California Street Sewer Replacement

A. ORGANIZATION INFORMATION

- 1. Organization Name:** City of Ferndale
- 2. Contact Name/Title**
Name: Jay Parrish
Title: City Manager
Email: citymanager@ci.ferndale.ca.us
Phone Number (include area code): 707-786-4224
- 3. Organization Address (City, County, State, Zip Code):**
Ferndale, PO Box 1095, Humboldt, CA, 95536
- 4. 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:

Title:

Email:

Phone Number (include area code):

6. Has the organization implemented similar projects in the past? ☒ yes ☐ no

Briefly describe these previous projects.

The City replaced its east side main sewer in 1980, and replace sewer on Ocean Avenue in 2003. A small section of the California Street sewer was replaced in 2018 to reduce the amount of groundwater entering the sewer system with strong positive results.

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

California Street Sewer Replacement

8. Organization Information Notes:

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 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: Eel River Valley (1-010) Priority Points are 14.5
- c) If Yes, please specify the name of the organization that is the designated monitoring entity:
Humboldt County
- 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

C. GENERAL PROJECT INFORMATION

1. Project Name: California Street Sewer Replacement

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: The Project will reduce the risk of the City's equalizing storage pond from overflowing and contaminating the Salt River with sewage.

3. Project Abstract

The project will replace the aging vitrified clay pipes on California Street to reduce the amount of groundwater entering the sewer system thereby reducing the possibility of a pond overflow, the possibility of sanitary sewer overflows in the collection system, and the likelihood of the City violating their NPDES permit limit on discharges to the Salt River.

4. Project Description

The vitified clay pipe sewer located on California street will be replaced with PVC pipe, two manholes will be installed, and the residential sewer laterals replaced to the their cleanouts. CCTV footage and flow monitoring confirm that the system is allowing water to enter the sewer system year round. Replacing the sewer should reduce the systems Total year round I&I by about 5%, and the volume of water inverted to its storage pond by about 10%. The City is currently evaluating the I&I in its sewer system, and there is a lot to do. Preliminary data on the evaluation suggest that replacing this sewer section will provide the best value for the dollar, and for its length reduce a greater portion of I&I entering the colleciton system as compared to other needed repairs/replacements.

5. Specific Project Goals/Objectives

Goal 1: Reduce the volume of I&I entering the treatment facility (see attachment "Flow Monitoring")

Goal 1 Objective: Reducing I&I will reduce the possibility of the equalizing storage pond overflowing

Goal 1 Objective: Reducing the I&I on California Street will reduce the possibility of the City exceeding their maimum discharge limit of 0.95 MGD, which is a violation of their discharge perm, and result in a fine.

Goal 1 Objective: Reduce overtime and stress on City staff who must remain at the facility during heavy storms to avoid keep the system operational

Goal 1 Objective: Reduce energy costs. The water is pumped twice at the treatment facility - once at the headworks and then when discharged to the Salt River.

Goal 2: Add two manholes on California Street

Goal 2 Objective: Manholes should be a minimum of 400 feet apart for 12-inch diameter sewer mains to allow equipment to properly clean the sewer, and to allow for easier maintenance.

Goal 2 Objective:

Goal 2 Objective:

Goal 2 Objective:

Goal 3: Add protection to the existing raised manholes

Goal 3 Objective: Prevent the manholes from being struck by cars and allowing I&I to enter the system (see CA Street Video).

Goal 3 Objective:

Goal 3 Objective:

Additional Goals & Objectives (List)

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

The project would provide funding to a disadvantaged community; also, the project will help protect the Salt Creek watershed from a potentially serious sewage spill, as well as reduce stress on the treatment facility and staff.

7. Describe the need for the project.

The City's WWTP can treat a maximum of 0.95 MGD under their NPDES permit, any excess wastewater entering the system is sent to the equalizing storage pond for future treatment. City staff are constantly trying to reduce the volume of the pond between storms to avoid overflowing the pond or exceed their discharge limits. In the past three years there have been two major series of storms over two years that have almost exceeded the plant capacity when the pond was already full, and the City came close to overflowing the pond because there was no other alternative to direct the water. PWWF is estimated to be 2.0 MGD, the facility can safely process 1.0 MGD; reducing the I&I entering the system by 80,000 to 100,000 GPD would provide a much needed safety margin.

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

Eel River Basin

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?

The RWQCB has stated that the City is to reduce the amount of inflow and infiltration entering its collection system.

10. Describe the population served by this project.

The City of Ferndale provides wastewater service to the City of Ferndale and nearby residences on County land. The system serves slightly more than 1,400 people all of which are included on a

disadvantaged community. Residential, restaurants entertainment and commercial properties are served by the City. There are no industrial connections.

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)

City of Ferndale; County of Humboldt - Based on DWR's DAC mapping tool.

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)

The DWR DAC website shows a severely disadvantage tract located within the City of Ferndale

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.

The Project will reduce the possibility that the DAC will pay heavy fines should the equalizing storage pond fail.

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.

Reducing I&I in the City's collection system will reduce the number of fines being imposed and allow the community to focus on addressing other serious issues in the collection system.

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

A sewage spill into the Salt River would harm species in the watershed. Francis Creek flows next to the equalizing storage pond and it could take weeks to repair or patch a break in the pond's banks

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

The City of Ferndale supports the project as does the RWQCB

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

City of Ferndale, RWQCB

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 City will be improving its sewer system once the engineering report on its collection system's I&I problem that is currently being prepared is completed

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.

N/A

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?

Provides assistance to disadvantaged communities.

Protects an ecosystem from being polluted with sewage.

23. Project Information Notes:

D. PROJECT LOCATION

1. Describe the location of the project

Geographical Information

The project is located in Humboldt County and the City of Ferndale on California Street between Port Kenyon Road and Van Ness Avenue. The work will be performed on the east side of California Street.

2. Site Address (if relevant):

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.

Most of the work will be done on City of Ferndale property (City Roads), the remaining work will be on County property for which the City has an easement.

4. Project Location Notes:

E. PROJECT TASKS, BUDGET AND SCHEDULE

1. **Projected Project Start Date:** 3/1/20
Anticipated Project End Date: 3/1/22

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	N/A	
Notice & invitation to consult sent to Tribes per AB52	N/A	
Notice of Preparation	N/A	
Draft EIR/MND/ND	N/A	
Public Review	N/A	
Final EIR/MND/ND	N/A	
Adoption of Final EIR/MND/ND	N/A	
Notice of Determination	N/A	
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 and a coastal permit because it is a replacement in kind

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
County Encroachment	Humboldt County	6/1/2020

Type of Permit	Permitting Agency	Date Acquired or Anticipated

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

6. Describe the financial need for the project.

The City of Ferndale has installed a sophisticated wastewater treatment facility to meet the State's requirements. The City will be paying for the construction of the facility for the next 23 years, and most of the money collected from monthly fees is used to pay off the loan. Having a small population and expansive facility to operate places a heavy financial burden on the City's population which as previously stated is a disadvantage community.

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

Describe how a scaled budget would impact the overall project.

By replace only a portion of the sewer there would be less of a reduction in I&I entering the collection system.

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

The City replace a small portion of the sewer section on California Street in 2017, and those costs were used to estimate the cost of replacing the remaing portion sewer mains. The cost per foot was determined and mukltiplied by the amount of footage to be replaced. The cost of two manholes, construcion observation and testing, engineering, surveying, and grant requirement were added to the costs.

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

Linning was considered; however, the site is located in a rural area and cost of replacing the pipe will be comparable to lining. Additonally, the pipe was probably installed in the 1950s and, based on observations of older sewer systems in the City, the pipe beding material is likely to be inadequate.

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

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

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.

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:

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.*

In 2017 the Salt River project diverted flows from Francis Creek to the ditch on California street. The treatment facility immediately saw it flows rise by approximately 70,000 gallons per day. Additionally, flow monitors were place upstream and downstream of the sewer located on California Street which indicated that from 80,000 to 120,000 gallons per day were leaking into the sewer main during storms (see Graph California Street). It is hoped that replacing the sewer main and laterals to the homes will reduce I&I on California Street by 80%, or by 64,000 to 96,000 GPD which would reduce the total amount of water sent to the ponds during heavy storms by 10%, and reduce the possibility the pond will overflow.

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
Water Supply				
Water Quality				
Other Ecosystem Service Benefits				
Protect Salt River from Sewer Spill	Unknown		\$18,000	Dollars
Other Benefits				
Reduce staff overtime	10	Hours	\$1000	Dollars
Electrical cost savings per year	3285	KWH	361.40	Dollars

7. Project Justification & Technical Basis Notes:

See attached graphs for winter and summer I&I observations on sections of sewer, as well as video of manhole struck by vehicle.

Note that the system experiences I&I through out the year.

Protect Salt River from Spill assumes 600,000- gallon (4% of the pond's volume) spill at a fine of \$0.03 per gallon. Note that the pond stores 15-million gallons of untreated sewage, and it is possible that much more seage would enter the Salt River.

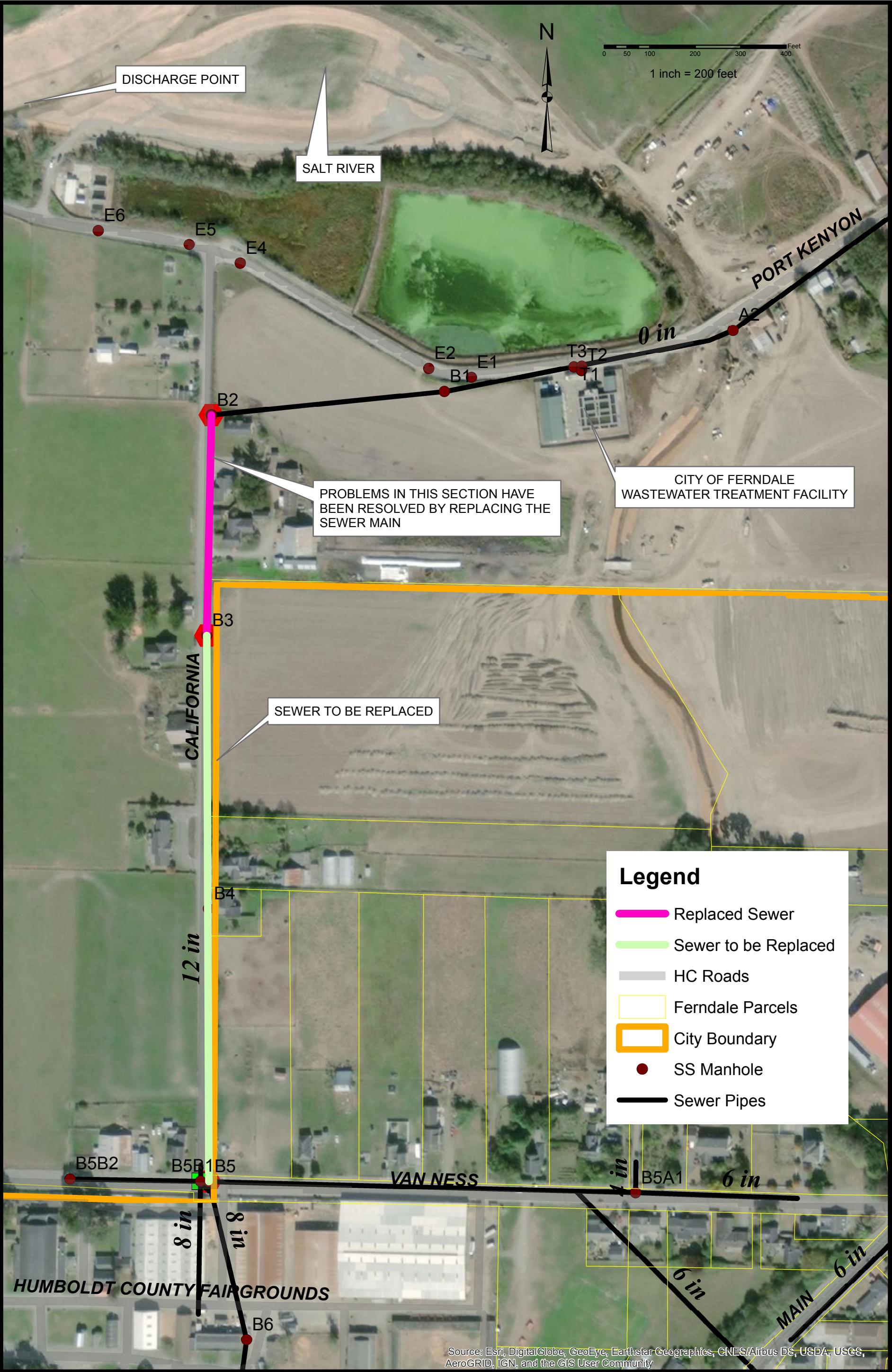
Reduced staff overtime assumes a 10% drop in estimated yearly overtime costs per year. Average time is 100 hours per year using a cost of \$100/hour

Electrical savings assume a 5% drop in I&I over the entire year at \$0.11 per KWH during the summers and \$0.10 per KWH during winters.

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

Project Name: California Street Sewer Improvements
 Organization Name: City of Ferndale

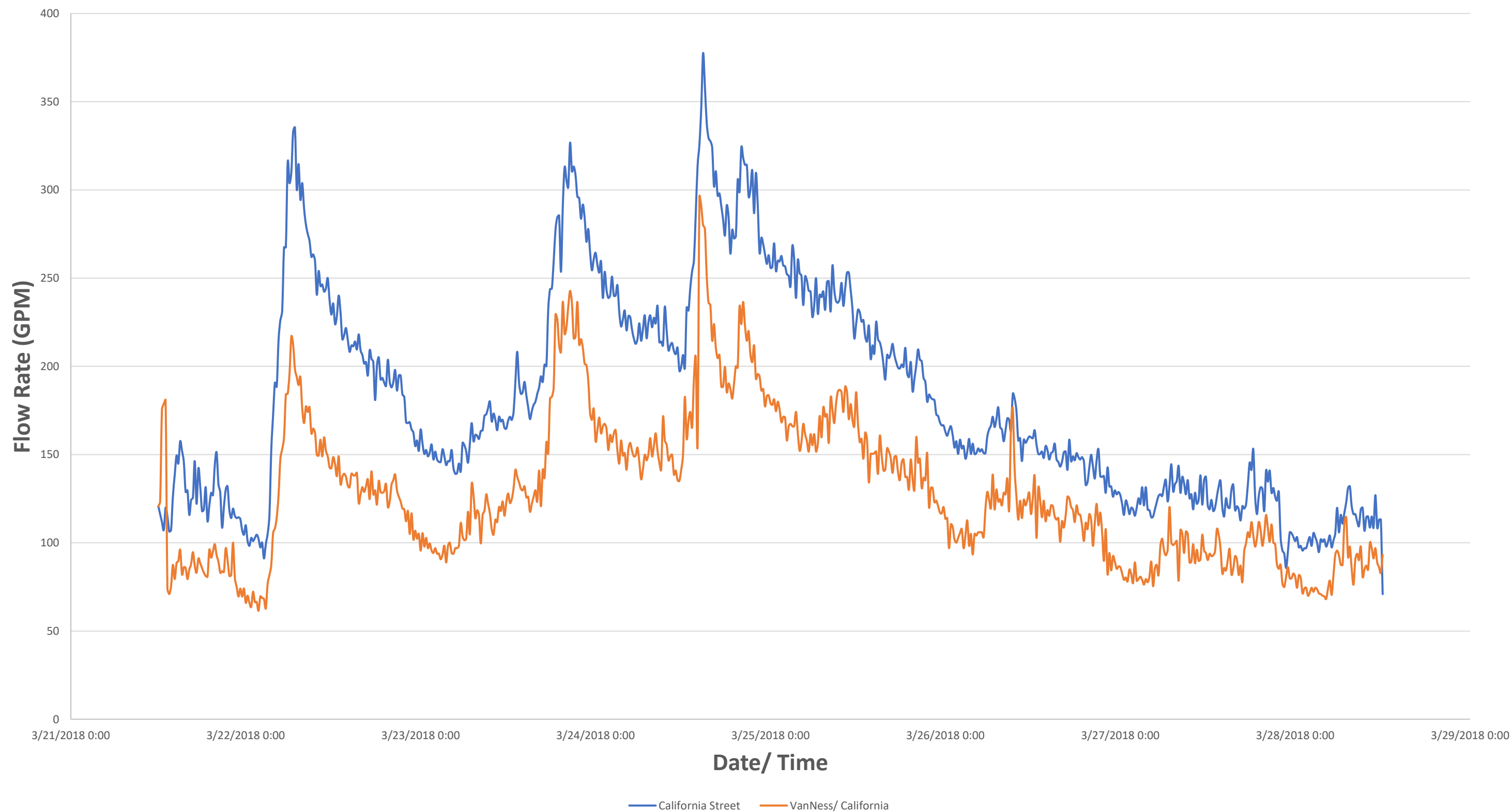
Task #	Major Tasks	Task Description	Major Deliverables	Current Stage of Completion	IRWM Task Budget	Non-State Match	Total Task Budget	Start Date	Completion Date
A Category (a): Direct Project Administration									
1	Administration	In cooperation with the County of Humboldt sign a sub-grantee agreement 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%	\$0.00	\$0.00	\$1,500.00	3/1/20	3/1/22
2	Monitoring Plan	Develop Monitoring Plan to include goals and measurable objectives	Final Monitoring Plan	0%	\$0.00	\$0.00	\$2,000.00	3/1/20	6/1/20
3	Labor Compliance Program	Execute service agreement with Labor Compliance Program company	Submission of Labor Compliance Program	0%	\$0.00	\$0.00	\$2,000.00		
4	Reporting	Develop monthly reports describing work completed, challenges, and strategies for reaching remaining project objectives. Develop Final Report	Quarterly and Final Reports	0%	\$0.00	\$0.00	\$1,500.00	3/1/20	3/1/22
B Category (b): Land Purchase/Easement									
1				0%	\$0.00	\$0.00	\$0.00		
C Category (c): Planning/Design/Engineering/Environmental Documentation									
1	Final Design /Plans	Prepare plans and specifications, site survey	Plans and specifications				\$25,600.00	3/1/20	12/1/20
2	Environmental Documentation: CEQA *	File notice of exemption	Submitted notice of exemption	0%	\$0.00	\$0.00	\$200.00	3/1/20	5/1/20
3	Permit Development *: [PLEASE COMPLETE]			0%	\$0.00	\$0.00	\$0.00		
4	Permit Development *: [PLEASE COMPLETE]								
D Category (d): Construction/Implementation									
1	Construction/Implementation Contracting	Put project out to bid, open bid, verify bids, verify insurance and qualifications, award project, sign contract.	Contract with winning bidder	0%	\$0.00	\$0.00	\$2,500.00	11/1/20	3/1/21
2	Mobilization and Site Preparation	Contractor set up		0%	\$0.00	\$0.00	\$10,000.00	6/1/21	7/1/21
3	Project Construction/Implementation: [PLEASE COMPLETE]	Install 1,600-feet of 12-inch sewer, two manholes, and bollards to protect manholes	Constructed sewer mains	0%	\$0.00	\$0.00	\$256,000.00	7/1/21	10/1/21
4	Project Construction/Implementation: [PLEASE COMPLETE]			0%	\$0.00	\$0.00	\$0.00		
5				0%	\$0.00	\$0.00	\$0.00		
6				0%	\$0.00	\$0.00	\$0.00		
7	Project Signage		Installed sign at project site	0%	\$0.00	\$0.00	\$450.00	6/1/21	7/1/21
8	Project Close Out, Inspection & Demobilization	Inspect project components and establish that work is complete. Verify that all project components have been installed and are functioning as specified will be conducted as part of construction inspection and project closeout. Conduct project completion photo monitoring. Prepare record drawings.	As-Built and Record Drawings; Project completion site photos. Perform compaction testing, provide daily observation logs, and observe construction.	0%	\$0.00	\$0.00	\$18,000.00	10/1/21	12/1/21
9	Project Performance Monitoring	The performance of the project will be monitored in accordance to the Monitoring Plan using the following measurement tools and methods: [PLEASE COMPLETE]	Record flows in new system to observe drop in I&I during winter of 2021-22. Continue observation of section of sewer mains.	0%	\$0.00	\$0.00	\$3,000.00	11/1/21	4/1/21
10	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%	\$0.00	\$0.00	\$4,000.00	6/1/21	10/1/21
Total North Coast Resource Partnership 2018/19 IRWM Grant Request					\$0.00	\$0.00	\$326,750.00		
Is Requested Budget scalable by 25%? If yes, indicate scaled totals; if no delete budget amount provided.					\$0.00	\$0.00	\$0.00		
Is Requested Budget scalable by 50%? If yes, indicate scaled totals; if no delete budget amount provided.					\$0.00	\$0.00	\$163,375.00		



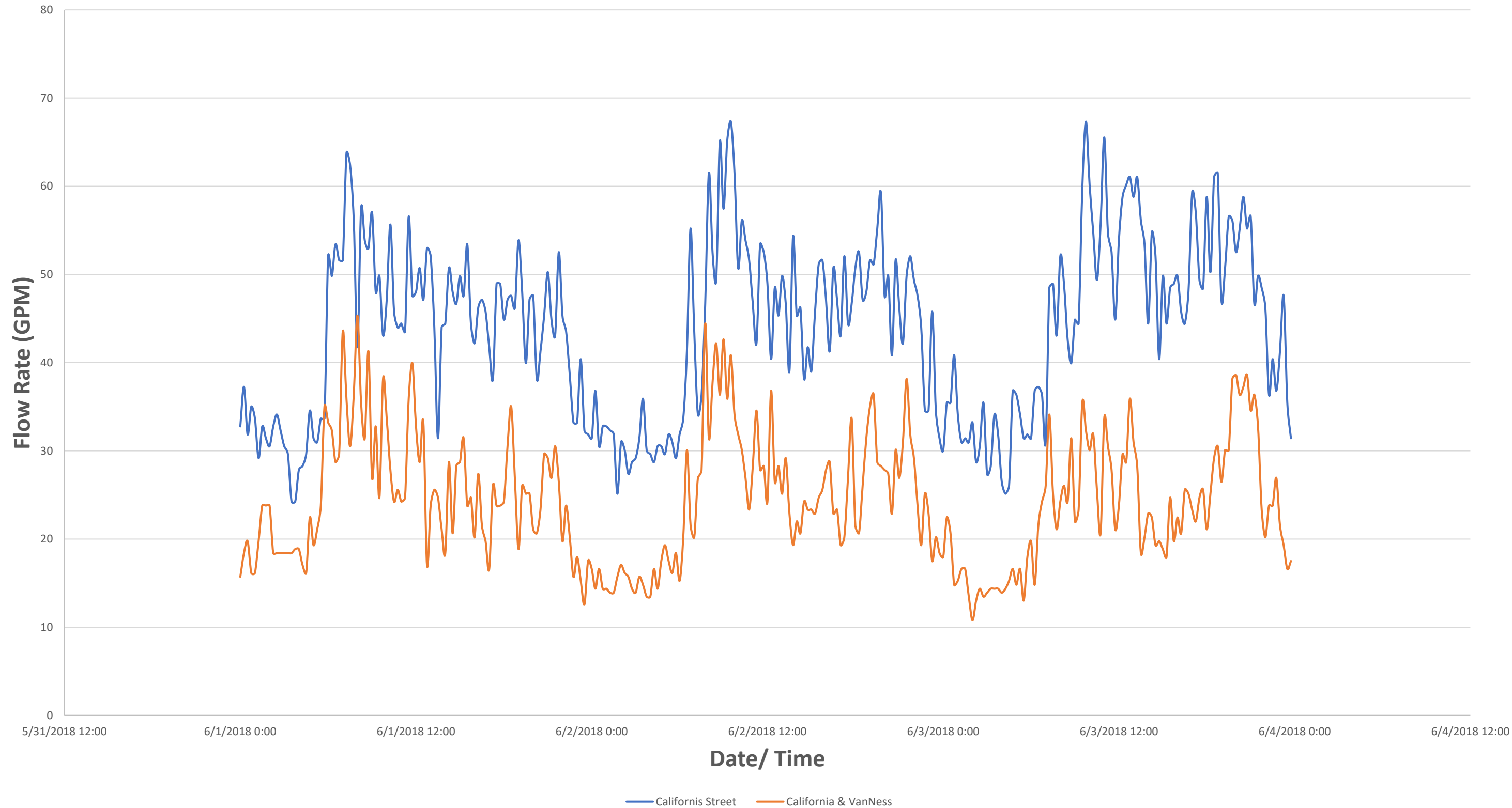
CITY OF FERNDALE
CALIFORNIA STREET SEWER REPLACEMENT
NORTH COAST RESOURCES
PARTNERSHIP GRANT

FIGURE 1
3/10/19

**CALIFORNIA STREET SEWER REPLACEMENT
MARCH 21 to 29 2018 FLOW
FIGURE 1**



**CALIFORNIA STREET SEWER REPLACEMENT
JUNE 1 TO JUNE 5 2018 SEWER FLOW
FIGURE 2**





Manhole B3 February 25, 2019

Manhole B3 located on California Street struck by something, probably a vehicle, and the seal broken. The manhole is located next to a drainage ditch and visual inspections in 2017 & 2018 showed no water entering the manhole from the ditch. This caused serious problems at the treatment facility. Note that the treatment facility's equalization pond was already full due to previous storms.