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Project Evaluation Checklist

	BACKGROUND IN	NFURIVIATION		
Project Name:	Extraction	on Barrier and Brackish Water Treatment Project		
Purpose of Project:		Water Supply		
Project Type:		Project Update		
Sponsoring Agency:		United Water Conservation District		
Groundwater Basin:		Oxnard and Pleasant Valley		
	NBVC Point Mugu, Sal	line Intrusion Management Area, Oxnard Pumping Depression		
Location:	Management Area, Pl	easant Valley Pumping Trough Management Area, and Oxnard		
		arrier wells (near Mugu Lagoon and possibly Port Hueneme), a		
Project Description:	reverse-osmosis trea	atment plant, and conveyance infrastructure to 1) develop a		
Implementation Trigger (if applicable):		None		
Evaluation Criteria		Response (Applicant to Complete)		
Water Supply				
Annual increase in Sustainable Yie		10,000 or more, depending on final design		
Annual increase in supplemental v	vater in lieu of pumping	F 000 an many demanding on final design		
(AFY):	A F)().	5,000 or more, depending on final design		
Groundwater demand reduction (AFY):	0		
Sustainability indicators addressed	١.	Seawater intrusion, chronic declines in groundwater levels/change in storage, groundwater quality, subsidence		
Project documentation included?	4.	Yes		
Timing/Feasibility		163		
Project Implementation Timeframe				
Current Project status:		Initial Feasibility Study complete		
Estimated time to Project complet	ion (vears):	3 years for Phase 1, 7 to 10 years for Phase 2		
Timeline / feasibility documentation	**	Yes		
Environmental	on meladea.	163		
CEQA/NEPA type:		Both CEQA/NEPA		
Status of CEQA/NEPA review and	nermitting.	Underway and approvals expected in less than 3 years		
Will the Project likely be permitted	-	Yes		
trin the Project interface		Well sites and pipeline routes are being selected to avoid areas		
Sensitivity of location:		of sensitive ecological and cultural resources to the extent		
Permitting				
•		CA Division of Drinking Water, County transportation ROW,		
Permits required:		CalTrans encroachment, VCWPD stream crossings, NPDES		
Status / time required:		years, Phase 2 expected to take 6 to 9 years		
Likelihood of Project being permit	ted:	Medium		

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Project Evaluation Checklist

Project Complexity	
Does the Project use new technology:	No
Does the Project require land acquisition:	Yes
Status of the land acquisition process:	Process started, less than 25% complete
Is the Project dependent on other unbuilt or unfunded	
projects:	No
Is the Project dependent on funded projects currently	
under construction:	No
	Operation of brackish-water treatment plant (additional staff,
Description of Operation and Maintenance (if applicable):	electrical and chemical demand), conveyance via pipeline to
Project Lifespan	
What is the projected lifespan of the Project:	50+ years
Project Phasing Please provide documentation of anticipated project phasing, inc attachment to this form.	luding schedules and costs (capital and O&M) for each phase, as an
Does Project require multiple phases of construction?	Yes
No. of anticipated construction phases:	2
	Phase 1 is being designed to extract approximately 3,500 AFY
Description of phases:	and discharge the extracted brackish water to Mugu Lagoon or
	Phase 1 is expected to be completed and begin operation in
Phasing timeline:	2026. Data obtained during the first year or more of operation
Total cost per phase:	\$330,000,000
Project phasing documentation attached?	(Please select one)
Cost and Funding	
Total capital cost:	\$361,000,000
Total annual Operations & Maintenance (O&M) Cost:	\$13,000,000
Is the project Proponent providing a funding match to	Yes, 100% of construction costs will be paid for by United and
construct the project?	by grants from agencies other than FCGMA.
Is there a funding source other than FCGMA for ongoing	
operation and maintenance costs?	Yes, O&M costs will be paid for by United.
Additional Benefits	
Does the project benefit disadvantaged or under-	
represented communities:	Yes
	Both phases of this project will halt or reverse seawater
If yes, please describe the benefit(s):	intrusion, reducing the threat of declining water quality to DACs
Dualing Duan and Comback Information	Domeno (Analisantha Comulata)
Project Proponent Contact Information	Response (Applicant to Complete)
Name:	Dr. Maryam Bral
Title:	Chief Engineer
Organization:	United Water Conservation District
Email:	MaryamB@UnitedWater.org
Phone:	805-525-4431
Date:	9/29/2023

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https://www.unitedwater.org/wp-content/uploads/2022/08/Extraction-Barrier-and-Brackish-Water-Treatment-Project-Feasibility-Study-GW-Modeling-UWCD-2021-December.pdf

 $\frac{https://www.unitedwater.org/wp-content/uploads/2022/08/Phase-1-Extraction-Barrier-and-Brackish-Water-Treatment-Project-Feasibilty-Study-GW-Modeling.pdf}\\$

https://www.unitedwater.org/wp-content/uploads/2022/11/2022-02_OFR-OptimizationModelingResults-Protected.pdf

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Project Ranking Sheet

Extraction Barrier and Brackish Water	r		
Project Name Treatment	Project '	Type_	Project Update805-525-4431
Sponsoring Agency United Water Conservation Dis	tric <mark>t</mark> Basin	Oxnai	rd and Pleasant Valley

WATER SUPPLY

1. Total Sustainable Yield / Supplemental Water / Reduced Demand

Total additional water supplied by the project for the benefit of the basin through increase to sustainable yield, supplemental water to be delivered in lieu of pumping, or reduction in groundwater demand.

10,000+ AFY increased sustainable yield
5,000+ AFY supplemental water in lieu of pumping
AFY groundwater demand reduction

Points Awarded

5	10	15	20	25	25 1
<500 AFY	≤500 AFY	≤2,500 to AFY	≤5,000 AFY	≥7,500 AFY	20 1
	<2,500 AFY	<5,000 AFY	<7,500 AFY		

25 pts

2. Sustainable Yield / Supplemental Water / Reduced Demand Documentation

Project documentation includes verifiable quantified estimate of increased sustainable yield, supplemental water, and/or reduced groundwater demand.

Points Awarded

5	10	15	20	25	
No supporting documentation	Conceptual estimate - limited supporting documentation	Initial feasibly study supporting estimate	Preliminary design and/or modeling supporting estimate	Detailed design and/or modeling supporting estimate	20 p

20 pts

TIMING / FEASIBILITY

3. Project Implementation Timeframe

What is the project implementation timeframe?

Points Awarded

1	5	10	15	20	15 pts
Cannot be implemented prior to 2040	May be operational by 2040, but uncertain	Can be operational by 2040	Can be operational in 10 years or less	Can be operational in 5 years or less	•

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4. Development Phase

How far long is the definition, feasibility, design, and development of the project?

Points Awarded

1	2	3	4	5	2
Conceptual – no	Feasibility study	Initial feasibly	30% engineering	60% or greater	3
feasibility or	in progress,	study completed	design	engineering	
design, project	project well		_	design	
not well defined	defined				

5. Status of Approvals, Permits, and Environmental Review

What is the status of NEPA/CEQA review and permitting?

Points Awarded Phase 1 permits expected in <3 years; Phase 2 will require >5 years to permit

1	2	3	4	5	2-3
Permit	Expected to take	Underway and	Underway and	Permitting and	
requirements not	>5 years	approvals	approvals	CEQA /	
identified or		expected <3	expected ≤1 year	environmental	
unknown		years		review complete	

6. Project Complexity

How complex is the project? For example, does it require multiple phases of construction; does it use proven technology; does it require land acquisition; is dependent upon other projects; and/or does it require complex permitting?

Points Awarded

1	3	5	3
Very complex,	Moderately	Low complexity,	
relies on	complex	uses readily	
unproven		available proven	
technology		technology	

7. Land Acquisition

Does the project require land acquisition or easements, and if so, what is the status?

Points Awarded

1	2	3	4	5	
Required, not started and/or potential eminent domain	Process started, but less than 25% complete	>25% but <50% complete	More than 50% complete	Not required or all acquisitions and/or easements complete	3

8. Dependency on Other Projects

Is the project dependent upon other projects?

Points Awarded

1	3	5	_
Project is	Project is	Not dependent on	5
dependent on	dependent on	other unbuilt	
other unbuilt and	funded projects	projects	
unfunded projects	under		
	construction		

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SOUNDWATER WANTER WANTE

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9. Project Lifespan

What is the projected lifespan of the project?

Points Awarded

1	2	3	4	5	5
≤5 years		10 years		≥20 years	

COST & FUNDING

10. Water Cost

Projected total cost of water produced, saved, or increase in sustainable yield.

<u>\$361 m</u> Total capital cost

\$ 13 m Total annual O&M cost

\$ 870 Annual O&M cost per AF

\$2,000 Annual cost (all costs including capital and O&M) per AF

Points Awarded

1	5	10	15	20	5
≥\$3,000 / AF	≤\$2,000 / AF	≤\$1,000 / AF	>\$500 / AF	≤\$500 / AF] ~
	<\$3,000 / AF	<\$2,000 / AF	<\$1,000 / AF		

11. Funding Match for Construction

Is the project proponent providing a funding match to construct the project?

Points Awarded

1	4	8	12	15	15
No match	<10% match	10 to 25% match	25 to 50% match	>50% match	

12. O&M Funding

Is there a funding source other than FCGMA for ongoing operation & maintenance costs?

Points Awarded

1	4	8	12	15	15
No funding identified	25%	50% of funding committed	75%	100% of funding committed	13

ADDITIONAL BENEFITS

13. DAC

Project benefits disadvantaged or under-represented communities.

Points Awarded

	1				5	5
	No				Yes	

Ranked by_____ Date____

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