

B R O W N S V I L L E PUBLIC UTILITIES BOARD



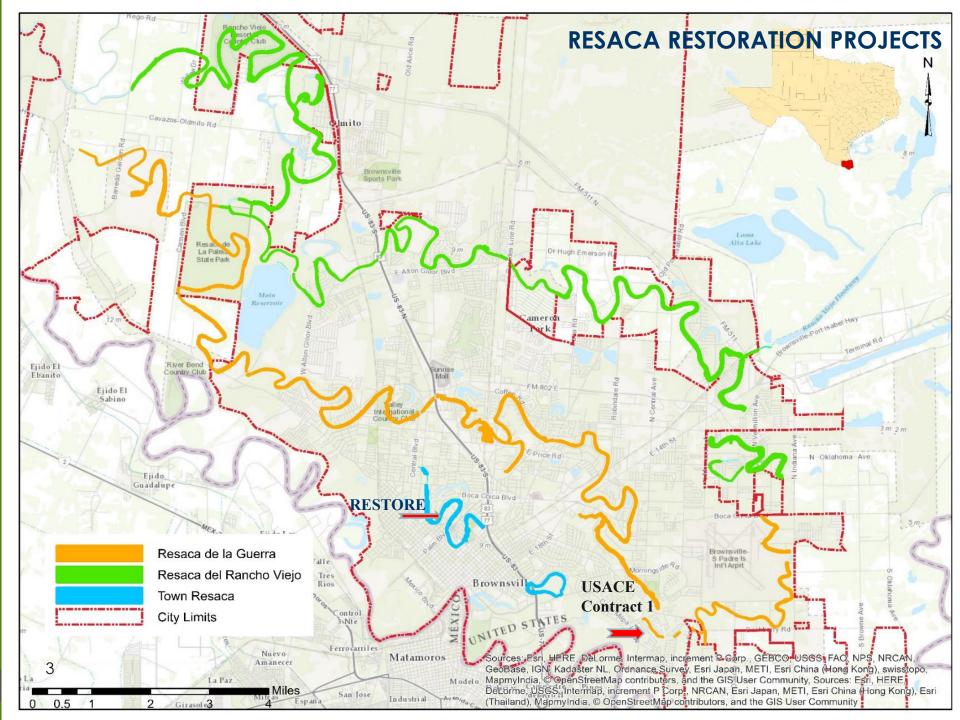
RESACA RESTORATION PROGRAM UPDATE BOARD WORKSHOP AUGUST 3, 2023

RESACA RESTORATION PROGRAM

V	*RESTORE Town Resaca Vatershed Project (Town Resaca)	Brownsy cosystem R esaca De l	USACE ville Resacas estoration Project a Guerra/Resaca ncho Viejo)	Dr	edge Crew #2 (TBD)	
	Flood Damage Redu and Water Manage Focus			rstem, Water Storage nd Management Focus		Flood Damage Reduction, Water Storage and Management Focus

* Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act ** United States Army Corps of Engineers





Resaca Restoration Program Benefits

- Increase water capacity
 - Storm drainage
 - Potable storage
- Improve water quality
- Economic development
- Recreation/ecotourism
 - o , Critical freshwater source
 - o/ Central and Pacific flyways
- Environmental Benefits
 - Restores critical aquatic and riparian habitat
 - Restores habitat for federal and state listed species

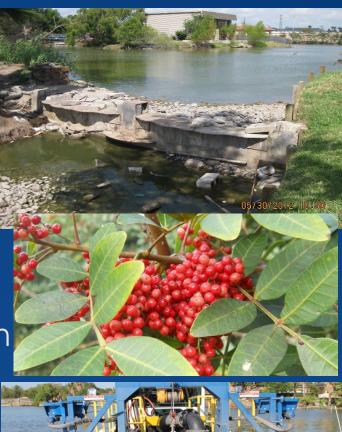




Existing Challenges

- Aging infrastructure
- Altered hydrology/sediment transport
 - 2'-7' accumulated sediment
 - Flood control
- Development
 - o Urban
 - o Agriculture
- Habitat alteration/fragmentation
- Invasive species
- Pollution/nutrient enrichment







Program Restoration Measures

- Dredging/excavation
- Incorporate dredge material as a soil supplement
- Planting native aquatic/emergent/riparian vegetation
- Rę-shaping banks
- Install/modify water control infrastructure
- Invasive plant species management









Background

• 1999

- House Committee on Transportation & Infrastructure Resolution
- 2002 2009
 - USACE Reconnaissance/Data Collection
- 2009
 - Imagine Brownsville Comprehensive Plan
- 2011
 - Creation of the Resaca Maintenance Department
- 2012
 - Capital equipment purchased = \$6.7 Million
 - \circ Staff hiring = Goal of 18 FTE's
 - Staging site construction
- 2013
 - o Dredging begins

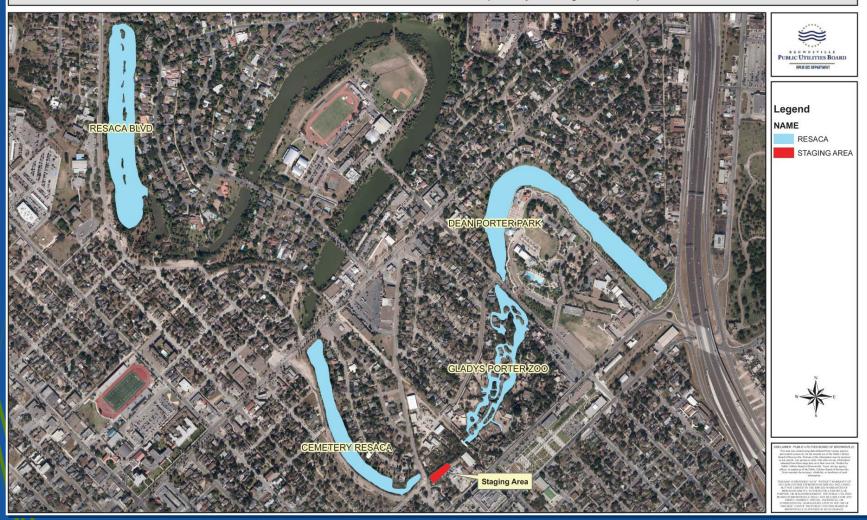






*Initial Resaca Segments

BROWNSVILLE RESACA RESTORATION (Group 1 Project Sites)



* Segments dredged between 2013-2016, funded by water utility

Initial Segments Completed

RESACA

Cemetery Resaca Dean Porter Park Resaca Gladys Porter Zoo Resaca Resaca Blvd. Resaca Zoo Extension Total

Sediment Removed 19,528 cu-yds.

75,423 cu-yds.

21,106 cu-yds.

33,445 cu-yds.

6,716 cu-yds. **156,218 cu-yds**







Total Segments Completed

RESACA	Sediment Removed
Initial Segments	156,218 cu-yds.
RESTORE - Ongoing	*46,679 cu-yds.
Total/	**202,897 cu-yd



* As of August 1, 2023 ** 202,897 cu-yds = 40,979,923 gallons = 40.9 Million Gallons Note - Rio Grande water that if not captured would otherwise flow downstream to the Gulf of Mexico.



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Town Resaca Watershed Restoration Project



Town Resaca Watershed Restoration Project

RESTORE Act Funding

- Deepwater Horizon oil spill 2010
- $\,\circ\,$ U.S. Treasury funding administered by the
 - Texas Commission on Environmental Quality (TCEQ)
- Project consists of 4 phases over a 9 year period = total of \$41 Million

ATION

- Phase I request of \$4.6 Million
 - Phase 1 = 2 year period
 - Scope = dredging, bank improvements, staffing, weirs, gate valve, stormwater interceptors
- Grant award notification (2020)
- Dredging Began(2022)
- Infrastructure/bank design Began (2022)





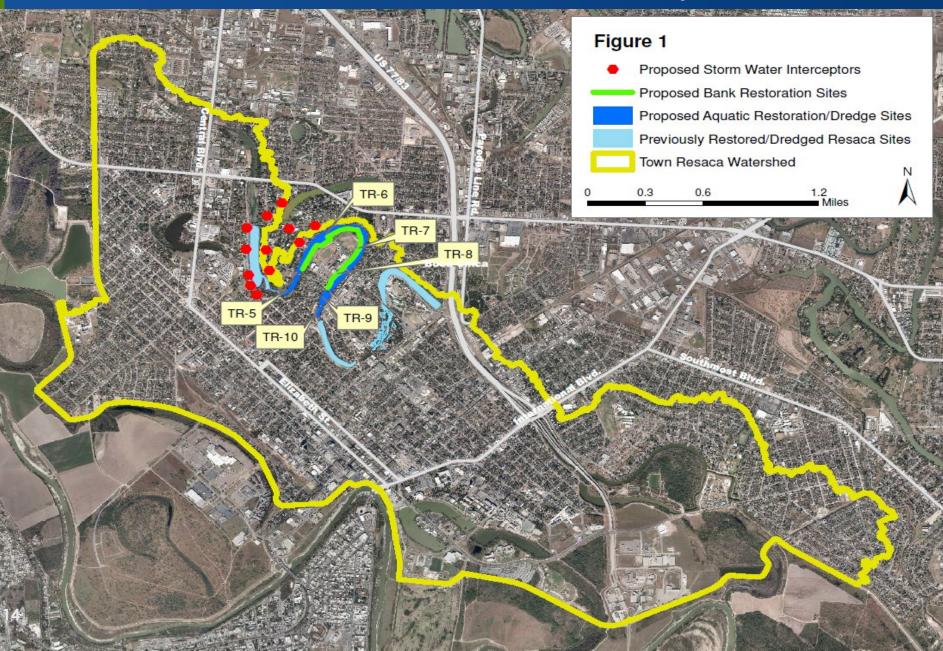
*RESTORE Cost Estimates

PROJECT PHASE	REQUEST *	*BPUB MATCH	TOTAL	TIMELINE
I	\$3,950,939	***\$730 <i>,</i> 000	\$4,680,939	2 YRS
II	\$7,783,457	\$1,069,004	\$8,852,461	2 YRS
III	\$13,740,584	\$1,750,000	\$15,490,584	2 YRS
IV	\$10,876,328	\$1,804,686	\$12,681,014	3 YRS
TOTAL	\$36,351,308	\$5,353,690	\$41,704,998	9 YRS

* Cost estimates at 2017 prices ** No match required for RESTORE. Sponsor match/leverage encouraged *** Informed by TCEQ that no match required for Phase I



RESTORE Phase I Scope



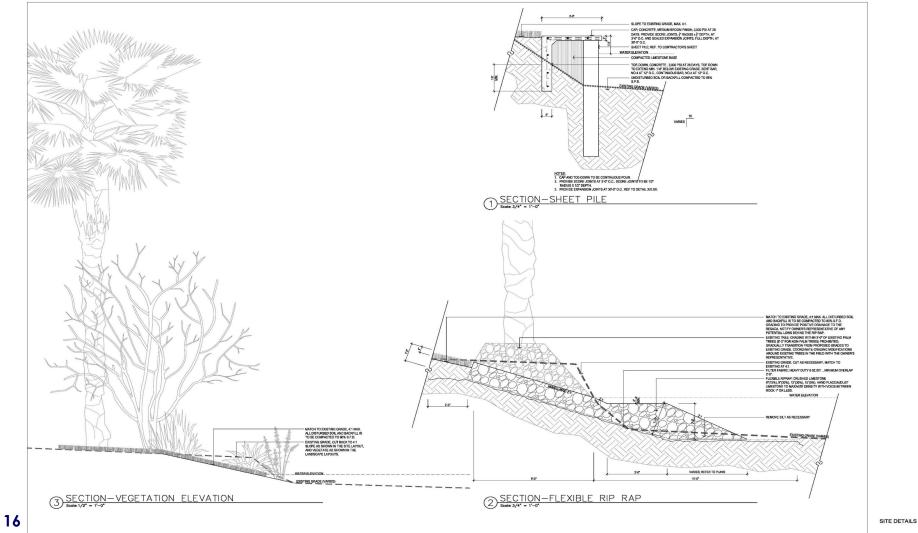
RESTORE STATUS

Dredging = 77% Complete

RESTORE Dredging August 1, 2023 PUBLIC UTILITIES BOARD GEOGRAPHIC INFORMATIO Legend Dredge Progress Depth 1 - 2 FT 2-3FT 3-4 FT 4 - 5 FT 5-6FT 6-7FT 7-8FT 8-9FT 9 - 10 FT Fotal Material Dredged: 46,679 Cu-Yd 1 inch = 300 fee

RESTORE STATUS

Infrastructure/Bank Design = 100% Complete



RESTORE STATUS

City Drainage - Infrastructure Drainage Improvements



City of Brownsville Automated gate valve





Wood board weir

RESTORE STATUS City Drainage - Infrastructure Drainage Improvements







City of Brownsville Automated gate valve

18



Wood board weir

*RESTORE Phase I Funding

Description	Amount
Phase I Reimbursement Grant Award	\$4,680,939
Reimbursement Requested (Expenditures since project inception)	\$1,643,953
Reimbursement Received	**\$1,238,460
Reimbursement Pending	**\$405,493
Non-reimbursable Expenses (Local contribution)	***\$227,957
Estimated expenses pending	****\$3,036,986

* As of June 30, 2023 ** Funded by grant *** Funded by Resaca fee **** Does not include additional \$1.9 Million request/amendment to U.S. Treasury

RESTORE Project Summary

- RESTORE project focused on Town Resaca system
- Project funded primarily by U.S. Treasury grant, any matching and/or non-reimbursable amounts funded by Resaca fee
- Total project consists of 4 phases estimated over 9 years
- Phase 1 estimated completion is November 2024
- BPUB will have to apply for funding for each phase and adjust cost estimates to reflect current prices
 - Requesting 1.9 Million amendment for Phase I
- Dredging performed by BPUB Crew -1 staff
- Design of infrastructure/bank improvements performed by engineering consulting firm
- Construction of infrastructure/bank improvements completed by private contractor(s)
- RESTORE project land to be improved does not require fee simple acquisition



U.S. Army Corps of Engineers Brownsville Resacas Ecosystem Restoration Project



USACE Brownsville Resaca Ecosystem Restoration Project

Brownsville Resacas Feasibility

- Cost Share Agreement signed on August 2015
- Study cost: \$3 Million
- BPUB match: \$1.5 Million
- PDT meets regularly
- Public Meetings
- Chief's Report signed in September 2018
- America's Water Infrastructure Act -October 2018 – P.L. 115-270, Section 1401 (5) - authorizes construction

Charlie Cabler City Manager





August 1, 2017

Colonel Lars N. Zetterstrom Department of the Army Galveston District, Corps of Engineers 2000 Fort Point Road Galveston, Texas 77553-1229

Subject: The Resacas at Brownsville, Texas Ecosystem Restoration Study

Dear Colonel Zetterstrom:

The City of Brownsville, Texas extends its full support for the The Resacas at Brownsville, Texas Ecosystem Restoration Study. We understand that the study was conducted under the authority of the House Committee on Transportation and Infrastructure Resolution, 10 November 1999; and upon approval of the report, this project will move into the implementation phase.

The restoration plan contained in the feasibility report is an appropriate action to address the ecosystem concern in the area and is consistent with our goals. We are committed to this project and are willing, able, and fully prepared to enter into the final successive phases proceeding to completion. We look forward to executing a Project Partnership Agreement (PPA) at the earliest opportunity. We understand the provision of the PPA includes requirements for operation, maintenance, repair, replacement and rehabilitation (OMRRR) of the project.

The City of Brownsville through its Brownsville Public Utilities Board (BPUB) assumes full financial responsibility towards the project and for subsequent OMRRR.

Thank you for your assistance with this much needed restoration project. Please contact me if you need any additional information.

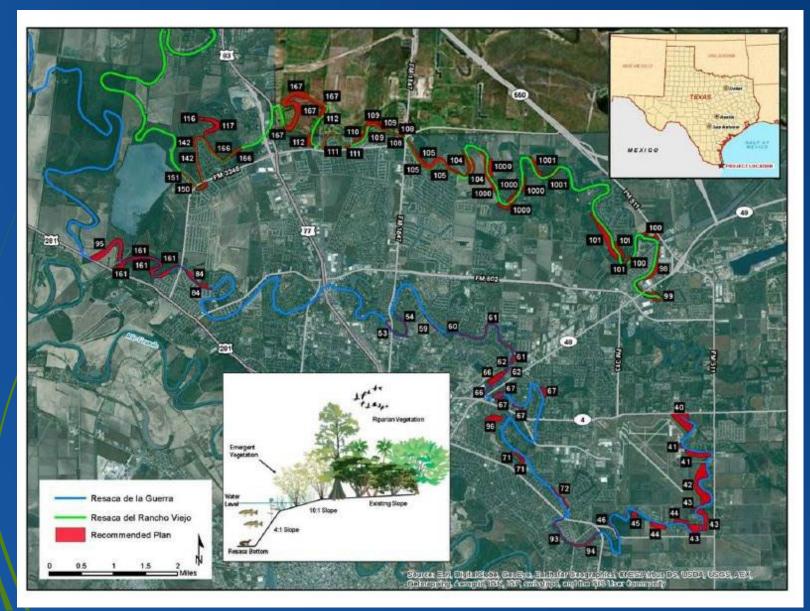
Sincerely,

Charlie Cabler City Manager

CC:bba xc: File

> City of Brownsville, Texas 1001 E. Elizabeth St., P.O. Box 911, Brownsville, Texas 78522 Telephone: 956-548-6007 Fax: 956-546-4021 www.cob.us

U.S. Army Corps of Engineers National Ecosystem Restoration (NER) Plan



Brownsville Resacas Feasibility NER Plan Project Cost Estimates

Item	NER Plan Cost Estimate	Cost Share
USACE	\$202,275,010	65%
Non-Federal (COB/BPUB)	*\$108,917,313	35%
Total Cost (USACE & Non-Federal)	**\$311,192,323	

* Local match is required to leverage federal funding

** Updated cost estimate provided by USACE in December 2022. USACE recertifies cost every 5 years. Total cost to be spread over 16 contracts (each contract > 2years). A
 75 year commitment to maintain improvements is required to receive federal funding

Brownsville Resacas Contract 1

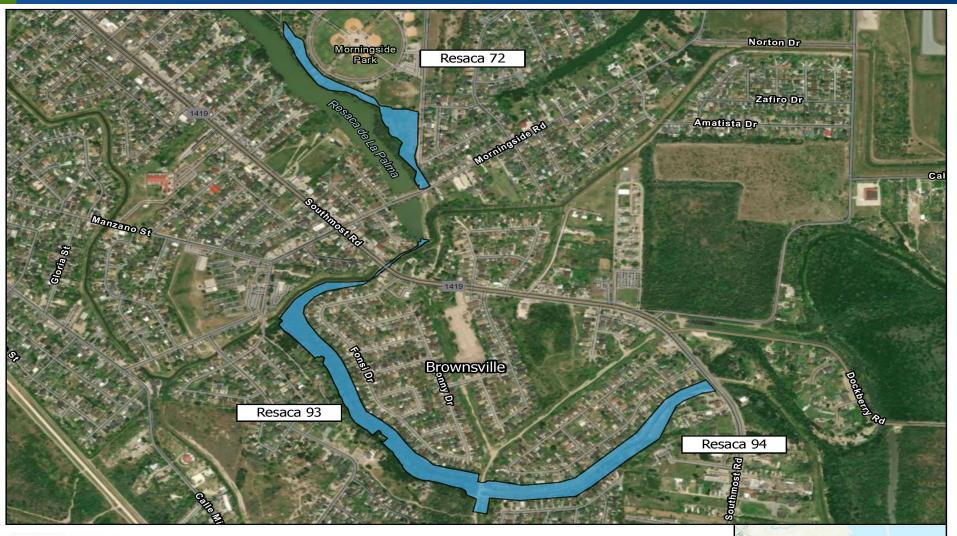
Background

- March 5, 2021 Project Management Plan (PMP) executed
- March 26, 2021 Design Agreement (DA) executed
- April 2021 to Present Pre-construction, Engineering and Design (PED), underway
 - Contract 1 Design Total cost: *\$2,080,000 (65% Fed/35% Non-Fed share)
 - Contract 1 Design Non-Federal share: **\$728,000 (35% share)

*Cost estimates generated by the USACE **Note – Design expenses were utility funded (2021), prior to Resaca fee implementation



USACE Contract 1





Legend

Resaca Construction Limit – September 2022



0.2 Miles 0.1

Brownsville Spatial Reference Name: NAD 1983 2011 StatePlane Texas atamoros South Central FIPS 4204 FtUS

Bahia Grande UNITED STATES

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MEXICO

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Brownsville Resacas Contract 1 Cost Estimates*

- Contract 1 Construction: \$3,102,470**
 Breakdown:

 65% Federal Share: \$2,016,605
 35% Non-Federal Share: \$1,085,864
- Approximately 14-month construction completion schedule from Project Partnership Agreement (PPA) execution

* Estimate update provided by USACE on May 8, 2023
** Includes USACE construction management and oversight expenses



Contract 1

Resaca Banks



Brownsville Resacas Contract 1 Status

Moving Forward

- USACE engineering design 95% complete
- Irrigation/Drainage District Agreements
- USACE/City of Brownsville MOU
- Construction pending congressional funding to proceed







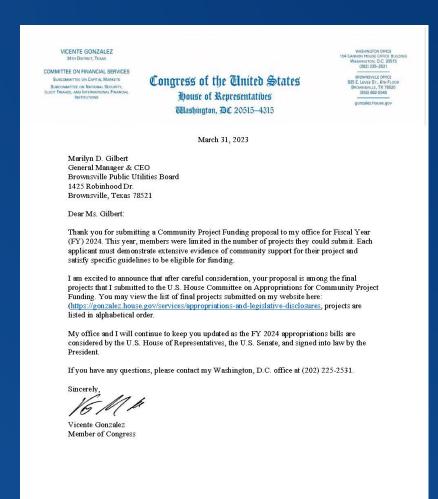
Moving Forward

- FY24 Energy and Water Development Bill (Community Project Fund)
 - July September

Senate Subcommittee on Energy and Water Development marks up FY24 bill

- October November
 House and Senate pass their version of the FY24 appropriations bill
- December

Congress approves FY24 appropriations act and President signs bill





Brownsville Resacas Feasibility National Ecosystem Restoration Plan Summary

- Project focus primarily on ecosystem restoration
 - Includes elements that improve city drainage and provide economic benefit to the city through potential increase in ecotourism
- Recommends improvements to Resaca De La Guerra and Resaca Del Rancho Viejo systems
- 16-contract construction/improvement schedule
- Each contract completion (design to construction) may be > 2 year
- Design and bidding to be performed and managed by USACE
- Construction of improvements to be performed by private contractors
- Congressional funding allocation required per contract



Brownsville Resacas Feasibility National Ecosystem Restoration Plan Summary

<u>Real Estate</u>

- USACE requires that land to be improved be acquired in fee simple
 - Land to be acquired via purchase and/or condemnation
- 646 real estate tracts to be improved

 - o/ < 2% state, federal or local school district
 - 6 75% residential
 - o 20% commercial
- Improved land must be maintained for 75 years



USACE Real Estate Credit

Brownsville

2001 / 2014

Charlie Cabler City Manager



August 1, 2017

Colonel Lars N. Zetterstrom Department of the Army Galveston District, Corps of Engineers 2000 Fort Point Road Galveston, Texas 77553-1229

Subject: The Resacas at Brownsville, Texas Ecosystem Restoration Study

Dear Colonel Zetterstrom:

I write to inform you that the City of Brownsville, Texas through its Brownsville Public Utilities Board (BPUB), as local sponsor of the Corps' Resacas at Brownsville Ecosystem Restoration Feasibility Study (Resaca ER), waivers right to credits for Lands, Easement, Rights of Way, Relocation and Disposal (LERRD) exceeding 35 % of the recommended plan implementation cost. We understand the total current implementation cost of the recommended plan is estimated at \$239,678,000. We further understand that the non-federal minimum cost share requirement for this project is 35%, resulting in a total sponsor share of approximately \$83,887,300. The LERRD costs for this project is currently estimated at \$107,812,000. This action will enable the recommended project to be built and the City of Brownsville and BPUB will forego the reimbursement for LERRD costs above the thirty-five percent, estimated at approximately \$23,924,700, to support the project.

As you know, the Resaca ER Study has advanced to a stage that has identified a Selected Plan which has undergone a successful Public Review. Cost estimate for the Selected Plan is indicative of the challenges we face in restoring the riparian environment along long stretches of the Resaca banks in a Suburban environment. It is also indicative to a sustainable restoration for which connectivity of multiple elements be established. Consequently to attain such connectivity through terrestrial, hydrologic and spatial elements, there will be a large number of land taking along Resaca banks; thus requiring many parcels of land.

Projects such as our Resaca restoration will require high number of real estate takings along the Resaca banks to meet the criteria of a sustainable project. We are aware of similar successful positions taken by other sponsors for Environmental Restoration projects. In which cases LERRD values were high and Sponsors were willing to forego reimbursement above the 35% limit for Environmental Restoration project. The City of Brownsville and BPUB are prepared to do the same.

> City of Brownsville, Texas 1001 E. Elizabeth St., P.O. Box 911, Brownsville, Texas 78522 Telephone: 956-548-6007 Fax: 956-546-4021 www.cob.us

Colonel Zetterstrom

Page 2

August 1, 2017

Although prevailing Corps policy indicates that projects with land costs exceeding 25% of the total project cost are not likely to be given a high priority for budgetary purposes, we are hopeful that our demonstrated commitment to the Resaca ER project and our productive partnership with the Corps will enable us to transform the only remaining Resaca system in the world into a valuable sustainable system contributing to the region environmental, ecotourism, and a sustainable infrastructure assets.

Sincerely,

Charlie Cabler City Manager

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Brownsville Resacas *Community Project Funding (CPF) Support

Letters of Support

- City of Brownsville 0
- Brownsville Independent School District 0
- Cameron County Judge 0
- Brownsville Community Improvement 0 Corporation
- Healthy Communities of Brownsville 0
- Sabal Palm Sanctuary 0
- The Nature Conservancy 0
- Children's Museum of Brownsville 0
- Brownsville Historical Association \circ
- Lower Rio Grande Valley Development 0 Council
- Texas Southmost College 0
- Texas Master Naturalist RGV Chapter Ο

* Appropriations funding request supported by Congressman Vicente Gonzalez

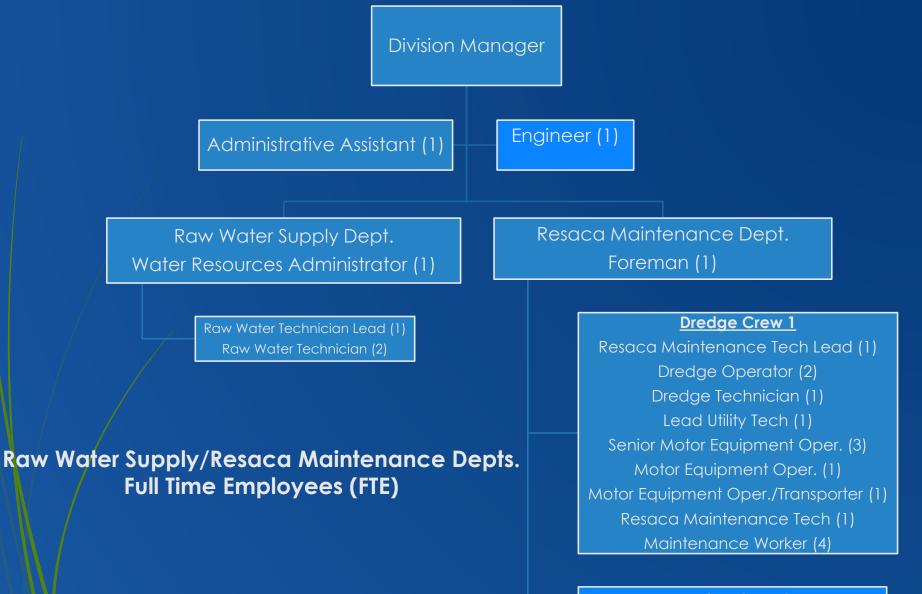




ALLENO GRANDE LA	Mayor Ambrosio "Amos" Hernaudez, Pharr
의 ···· · · · · · · · · · · · · · ·	Mayor Trey Mendez, Brownsville
	Mr. Jim Darling, Member-at-Large Secreta
RATIOPMENT COUNCT	Mayor Norma Sepalveda, Harlingen
OARD MEMBERS	March 30, 2023
uvid A. Garza ommissioner, Cameron County	
llie Tornes	Congressman Vicente Gonzalez
ommissioner, Hidalgo County	Tx-34th Congressional District
R. Garza	154 Cannon House Office Building
ommissioner, Alamo	Washington, DC 20515
olunny Garcia ouncilman, Edinburg	Subject: The Resacas at Brownsville, Texas Ecosystem Restoration
iek Salinas layor, Lyford	Dear Congressman Gonzalez,
wier Villalobos layor, McAllen	On behalf of the Lower Rio Grande Valley Development Council (LRGVDC), the
scar D. Montoya iavor, Mercedes	regional council of governments serving Cameron, Hidalgo, and Willacy Counties,
	this letter is provided in support of the Brownsville Resaca Ecosystem Restoration
orie Garza ayor, Mission	Project. The objective of the project is to restore the exceedingly rare resacas ecosystem that has been damaged due to the past 150 years of expansion of
as Olivarez ayor Rio Hondo	agriculture and urbanization.
dward Gonzales ommissioner, Raymondville	The restoration measures anticipated for this project include dredging/excavating
icardo "Rick" Guerra	material, incorporating dredged material as a soil supplement, installing/modifying water control structures, planting native riparian vegetation.
layor, San Benito	re-shaping banks, planting native aquatic and emergent vegetation,
lanco "Markie" Villegas ommissioner, San Juan	removing/controlling invasive plant species, and creating habitat structures. The restoration of these bodies of water would add to the city's storm drainage
Ima D. Salinas	capability, increase water storage capacity, improve water quality, and restore and
layor, Sullivan City	protect wildlife habitats and native vegetation. Brownsville Public Utility Board's
eronica Gonzales T Rio Grande Valley	(BPUB) improvement and protection of the remaining resacas will provide the
	opportunity to boost ecotourism and recreation along the restored resacas. These
ul Hernandez suth Texas College	are important infrastructure and environmental benefits to a city with significant underserved and disadvantaged communities.
edia Hernandez was State Technical College	0
-	The LRGVDC is in full support of the Resacas and Brownsville, Texas Ecosystem
roy Allen elta Lake Inrigation District	Restoration project as it aligns with the 2019-2024 Regional Strategic Plan
onald Mills	Environmental Services Goals. Thank you for the opportunity to provide this
illary County Navigation District	letter of support. Please feel free to contact me at 956-682-3481 or meruz@lrgvdc.org if I can be of any further assistance.
cazar Garcia, Jr. ember-at-Large	
rgio Contreras ember-at-Large	Sincerely,
	1/
ipita Sanchez Martinez rassroots Organizations	Man o
XECUTIVE DIRECTOR	Manuel Cruz
lanuel "Manay" Cruz	Executive Director

DREDGE CREW 2





Dredge Crew 2

Dredge Operator (1) Dredge Technician (1) Motor Equipment Operator (1) Maintenance Worker (2)

Dredge Crew 2

- FY23 Board approved 6 FTE's

 3 hired/3 vacancies
- Training
- Equipment Purchases
 - o Dump truck
 - o Front Loader
 - Dredge pipe
- Dredge Site Selection/Planning
- Environmental Permitting



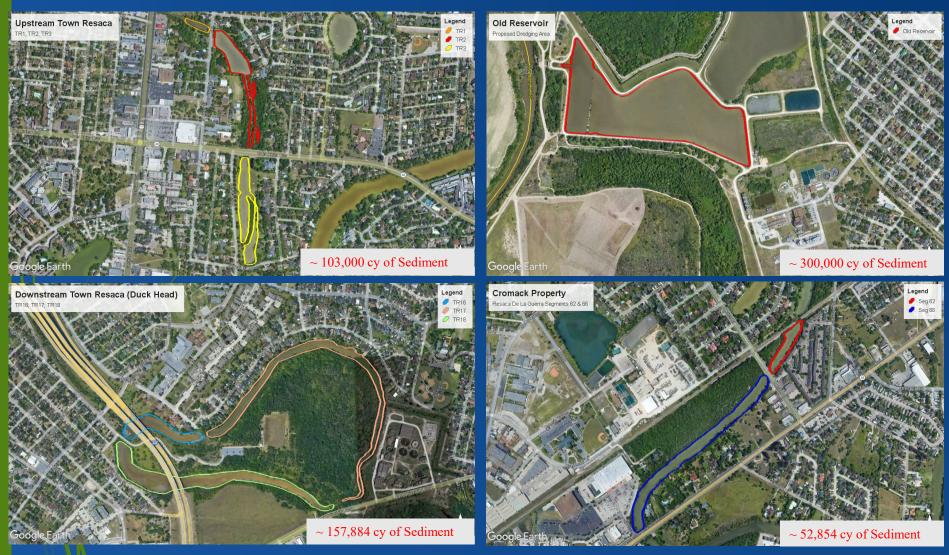


Potential Dredge Crew 2 Sites





Dredge Crew 2 Site Planning





Resaca Dredging Operation Equipment Needs

Equipment Description	Cost Estimate	Comment
Crew 1 - *Dewatering System	\$4,000,000	FY24 CIP
Crew 1 – *Excavator	\$274,750	FY24 Budget
Crew 2 – Dump Truck	\$141,119	July 2023 Board Approved
Crew 2 – Front Loader	\$252,000	August 2023 Board Item
Crew 2 – Dredge pipe/floats	\$446,700	FY24 Budget
Crew 2 – Booster Pump	\$227,883	FY24 Budget
Crew 2 – Office/Trailer	\$90,935	FY24 CIP
Crew 2 – Utility Truck	\$78,415	FY24 Budget
Total	**\$5,511,802	

* Equipment > 10 years old, exceeded useful life ** Cost to be funded by Resaca fee

Resaca Restoration Program Action Items

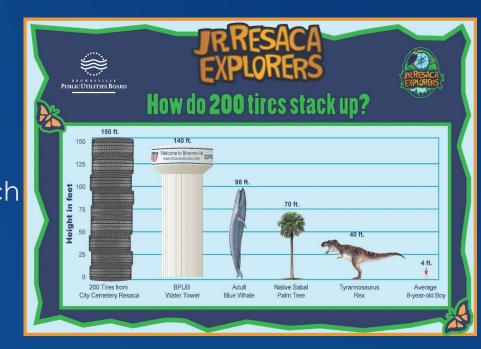
- Gather feedback from City
 Commission and community
- Inform impacted stakeholders of project progress
- Habitat/wildlife assessments to monitor impacts of restoration effort
 - RGV -Texas Master Naturalist volunteer observations
- Measure/calculate siltation rate of dredged segments





Resaca Restoration Program Action Items

Grow informational campaign • Jr. Resaca Explorers • BISD Outreach • Gladys Porter Zoo Outreach • Signage • 200 Scouts/year • 25,000 students/year • 150,000 children with parents/year





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RESACA FEE And FY24 Expenses

Description	Amount
Fees collected FY22 to present (- 10% COB Transfer)	\$3,366,160
Fee expensed in FY23	*\$409,098
Fee balance	\$2,957,062
Anticipated FY24 Fee Revenue (-10% COB Transfer)	\$5,433,794
Total	\$8,390,856
Potential FY24 Estimated Expenses	
RESTORE – Amendment	\$1,907,335
USACE Contract 1 Construction 35% Share	\$1,085,864
Dredging Operation Equipment Cost	\$5,511,802
Total	\$8,505,001

RESACA FORECAST (Years 1 thru 9)

		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026		FY 2027	FY 2028	FY 2029	FY 2030
Water Customers New Accounts Avg. Annual Growth		54,524	55,065 541 0.99%	55,612 547 0.99%	56,164 552 0.99%	56,722 558 0.99%		57,285 563 0.99%	57,854 569 0.99%	58,429 575 0.99%	59,010 581 0.99%
FEE		f. 6/1/22	Eff. 1/1/23	Eff. 1/1/24	Eff. 1/1/25	Eff. 1/1/26		0.50	0.50	0.50	0.50
Resaca Fee - RESTORE	\$	2.50	\$ 2.50	\$ 2.50	\$ 2.50	\$ 2.50	\$	2.50	\$ 2.50	\$ 2.50	\$ 2.50
Resaca Fee - USACE	\$	2.00	\$ 3.75	\$ 7.50	\$ 7.50	\$ 10.00	\$	10.00	\$ 10.00	\$ 10.00	\$ 10.00
Resaca Fee - Combined	\$	4.50	\$ 6.25	\$ 10.00	\$ 10.00	\$ 12.50	² \$	12.50	\$ 12.50	\$ 12.50	\$ 12.50
REVENUE	4	months									
Resaca Revenue - RESTORE	\$	545,240	\$ 1,637,370	\$ 1,664,258	\$ 1,680,780	\$ 1,697,475	\$	1,714,328	\$ 1,731,353	\$ 1,748,558	\$ 1,765,943
Resaca Revenue - USACE	\$	436,192	\$ 2,177,170	\$ 4,373,291	\$ 5,042,340	\$ 6,368,670	\$	6,857,310	\$ 6,925,410	\$ 6,994,230	\$ 7,063,770
Resaca Revenue - Combined	\$	981,432	\$ 3,814,540	\$ 6,037,549	\$ 6,723,120	\$ 8,066,145	\$	8,571,638	\$ 8,656,763	\$ 8,742,788	\$ 8,829,713
Less: 10% COB Transfer	\$	(98,143)	\$ (381,454)	\$ (603,755)	\$ (672,312)	\$ (806,615)	\$	(857,164)	\$ (865,676)	\$ (874,279)	\$ (882,971)
Revenue Available for Resaca Project	\$	883,289	\$ 3,433,086	\$ 5,433,794	\$ 6,050,808	\$ 7,259,531	\$	7,714,474	\$ 7,791,086	\$ 7,868,509	\$ 7,946,741
COST											
Resaca Cost of Service - RESTORE	\$	421,536	\$ 1,305,902	\$ 1,435,202	\$ 1,384,558	\$ 1,729,583	\$	1,707,741	\$ 1,445,291	\$ 1,464,415	\$ 1,431,562
Resaca Cost of Service - USACE	\$	-	\$ -	\$ 4,517,949	\$ 4,661,735	\$ 6,272,909	\$	12,743,865	\$ 10,669,297	\$ 9,120,080	\$ 13,749,231
¹ Resaca Maintenance - USACE	\$	-	\$ -	\$ -	\$ 25,718	\$ 52,254	\$	87,962	\$ 160,505	\$ 221,239	\$ 273,154
Resaca Costs of Service - Combined	\$	421,536	\$ 1,305,902	\$ 5,953,151	\$ 6,072,011	\$ 8,054,746	\$	14,539,569	\$ 12,275,093	\$ 10,805,734	\$ 15,453,947
NET REVENUE											
Resaca Revenue - RESTORE, Net	\$	69,180	\$ 167,731	\$ 62,630	\$ 128,144	\$ (201,856)	\$	(164,846)	\$ 112,926	\$ 109,287	\$ 157,786
Resaca Revenue - USACE, Net	\$	392,573	\$ 1,959,453	\$ (581,987)	\$ (149,347)	\$ (593,360)	\$	(6,660,249)	\$ (4,596,933)	\$ (3,046,512)	\$ (7,664,992)
Resaca Revenue - Combined, Net	\$	461,753	\$ 2,127,184	\$ (519,357)	\$ (21,203)	\$ (795,216)	\$	(6,825,095)	\$ (4,484,007)	\$ (2,937,226)	\$ (7,507,206)
Cummulative	\$	461,753	\$ 2,588,937	\$ 2,069,580	\$ 2,048,377	\$ 1,253,161	\$	(5,571,934)	\$ (10,055,941)	\$ (12,993,166)	\$ (20,500,372)
	4 m	onths									

¹ Maintenance required for 75 years (estimated at \$620,000/yr by end of USACE project) Annual costs estimated based on completed annual contracts. \$620K not adjusted for inflation.

² Pending correction of Scrivener's Error (fee approved by City Ordinance was \$12 in 2026 and should be \$12.50) This forecast reflects \$12.50 by 2026.

³ RESTORE grant funding ends (costs were adjusted to match RESTORE fee net revenue)

Notes:

Resaca fees do not cover full grant matching due to escalation of costs.

Projects will need to be deferred to future periods to accommodate available funding.

RESACA FORECAST (Years 10 thru 17)

	FY 2031		FY 2032		FY 2033		FY 2034	FY 2035		FY 2036	FY 2037	FY 2038		TOTALS
Water Customers New Accounts Avg. Annual Growth	59,596 586 0.99%		60,186 590 0.99%		60,782 596 0.99%		61,384 602 0.99%	61,991 608 0.99%		62,605 614 0.99%	63,225 620 0.99%	63,851 626 0.99%		
FEE Resaca Fee - RESTORE	\$ 2.50	\$	2.50	\$	2.50	\$	2.50	\$ 2.50	\$	2.50	\$ 2.50	\$ 2.50		
Resaca Fee - USACE	\$ 10.00	\$	10.00	\$	10.00	\$	10.00	\$ 10.00	\$	10.00	\$ 10.00	\$ 10.00		
Resaca Fee - Combined	\$ 12.50	\$	12.50	\$	12.50	\$	12.50	\$ 12.50	\$	12.50	\$ 12.50	\$ 12.50		
REVENUE Resaca Revenue - RESTORE	\$ 1,783,485	\$	1,801,155	\$	1,818,986	\$	1,836,994	\$ 1,855,181	\$	1,873,547	\$ 1,892,095	\$ 1,870,546	\$	28,917,292
Resaca Revenue - USACE	\$ 7,133,940	\$	7,204,620	\$	7,275,946	\$	7,347,978	\$ 7,420,723	\$	7,494,188	\$ 7,568,380	\$ 7,482,184	\$	105,166,341
Resaca Revenue - Combined	\$ 8,917,425	\$	9,005,775	\$	9,094,932	\$	9,184,972	\$ 9,275,903	\$	9,367,735	\$ 9,460,475	\$ 9,352,730	\$	134,083,633
Less: 10% COB Transfer	\$ (891,743)	\$	(900,578)	\$	(909,493)	\$	(918,497)	\$ (927,590)	\$	(936,773)	\$ (946,048)	\$ (935,273)	\$	(13,408,363)
Revenue Available for Resaca Project	\$ 8,025,683	\$	8,105,198	\$	8,185,439	\$	8,266,475	\$ 8,348,313	\$	8,430,961	\$ 8,514,428	\$ 8,417,457	\$	120,675,269
COST														
Resaca Cost of Service - RESTORE	\$ 1,605,137	³\$	1,621,040	\$	1,637,088	\$	1,653,295	\$ 1,669,663	\$	1,686,192	\$ 1,702,886	\$ 1,683,491	\$	25,584,580
Resaca Cost of Service - USACE	\$ -	\$	4,513,983	\$	12,064,385	\$	4,983,756	\$ 5,291,953	\$	7,202,050	\$ 1,246,030	\$ 11,880,090	\$	108,917,313
¹ Resaca Maintenance - USACE	\$ 351,420	\$	351,420	\$	377,116	\$	445,791	\$ 474,160	\$	504,284	\$ 545,281	\$ 552,374	\$	4,422,679
Resaca Costs of Service - Combined	\$ 1,956,557	\$	6,486,443	\$	14,078,588	\$	7,082,842	\$ 7,435,776	\$	9,392,526	\$ 3,494,197	\$ 14,115,955	\$	138,924,572
NET REVENUE				_		_			_				_	
Resaca Revenue - RESTORE, Net	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -	\$	440,983
Resaca Revenue - USACE, Net	\$ 6,069,126	\$	1,618,755	\$	(5,893,149)	\$	1,183,633	\$ 912,537	\$	(961,565)	\$ 5,020,231	\$ (5,698,498)	\$	(18,690,285)
Resaca Revenue - Combined, Net	\$ 6,069,126	\$	1,618,755	\$	(5,893,149)	\$	1,183,633	\$ 912,537	\$	(961,565)	\$ 5,020,231	\$ (5,698,498)	\$	(18,249,303)
Cummulative	\$ (14,431,246)	\$	(12,812,491)	\$	(18,705,640)	\$	(17,522,007)	\$ (16,609,470)	\$	(17,571,035)	\$ (12,550,804)	\$ (18,249,303)		

¹ Maintenance required for 75 years (estimated at \$620,000/yr by end of USACE project) Annual costs estimated based on completed annual contracts. \$620K not adjusted for inflation.

² Pending correction of Scrivener's Error (fee approved by City Ordinance was \$12 in 2026 and should be \$12.50) This forecast reflects \$12.50 by 2026.

³ RESTORE grant funding ends (costs were adjusted to match RESTORE fee net revenue)

Notes:

Resaca fees do not cover full grant matching due to escalation of costs.

Projects will need to be deferred to future periods to accommodate available funding.

IMPLICATIONS OF RESCINDING THE FEE

- Without the fees there will be no funding to match grant opportunities and the Resaca operation will need to be abandoned
- Could lead to a reduction in workforce for those Resaca employees not placed in other departments
- Water storage will be diminished due to additional silting in of Resacas
 - Reduced diversification of water storage options for potable water treatment
- The City of Brownsville manages drainage, but there will be the potential for increased flooding due to reduced capacity levels in the Resacas



For more information visit:

www.brownsville-pub.com

https://www.brownsville-pub.com/projects/resaca-restoration/

USACE website:

https://www.swg.usace.army.mil/Portals/26/docs/Planning/Resaca%2 OBoulevard%20Cap%20206/Resaca%20Boulevard%20Resaca%20Ecos ystem%20Restoration%20Sec%20206.pdf?ver%E2%80%89=%E2%80%89 2017-01-10-162135-483