## Rescue Plan Act Funding Recommendations



## **Board Action**

## A. COVID-19 Mitigation

10% Allocation; \$4.65M Fund COVID-19 mitigation efforts, medical expenses, behavioral healthcare, and certain public health and safety staff.

## B. Strategic Investments in County Services 70% Allocation; \$32.55M

Invest to improve access to clean drinking water, support vital wastewater and stormwater infrastructure.

## C. Community and Economic Support 10% Allocation; \$4.65M

Address negative economic and supply chain impacts to workers, families, small businesses, impacted industries, and County programs (library, park/recreation, food hub)

## **D.** Administration

## 5% Allocation; \$2.325M

Manage and coordinate use of funds to ensure transparency and public accountability while maintaining a robust documentation and compliance methodology.

## E. Hold-Back

## 5% Allocation; \$2.325M

Set aside as a contingency/reserve fund to provide flexibility over the period the funds are available to most appropriately respond to the changing regulatory, economic and public health environment brought on by the pandemic.

## **Procurement Challenges**

ARPA Money needs to be Spent by December 2026

## **Expedited Delivery**

Volatile Construction Market and Price Uncertainty

Flexible Work Packages and Contracts to Maximize \$32.5M Available

## **Next Steps**

- Brown and Caldwell will provide recommendations tonight
- Action requested on these recommendations at next week's Budget Workshop
- April 18 BOCC Meeting
  - Additional ARPA requests from other areas
  - Request regarding Broadband

## Questions





**Union County** 

## Board of County Commissioners Water System Expansion Projects for ARPA Funding

April 4, 2022









## Purpose

## Present recommendations for water system expansion projects for \$32.5M ARPA funding

## Agenda

- Approach to Project Identification and Selection
- Potential Projects and Costs
- Recommendations

# Approach to Project Identification and Selection



## **Approach to Project Identification and Selection**



Connect High Priority Segments to Create Potential Projects

Rank each Project based on Combined Score

**Develop Cost Estimates for Each Project** 

## **Route Weighting Criteria**

## Originally Presented at Nov 12, 2021 BOCC Meeting

Criteria	Weighting
2040 Population	50%
Well Water Quality	50%
Arsenic	
<ul> <li>Manganese</li> </ul>	

## Updated based on BOCC and Staff Feedback

Criteria	Weighting
2040 Population	10%
2020 Population	30%
<ul> <li>Well Water Quality/Quantity</li> <li>Arsenic</li> <li>Manganese</li> <li>Nitrate</li> <li>Low Yield Wells</li> </ul>	30%
Short Line Program Applicants	30%







## **Potential Projects**







![](_page_15_Figure_0.jpeg)

![](_page_16_Figure_0.jpeg)

## **Pricing Assumptions**

- New watermains are 12 inches (to be refined during design)
- Preliminary total project cost estimates include:
  - Construction
  - Construction Contingency
  - Easement Acquisition
  - Engineering
  - Construction Management
  - Escalation to Mid-Point of Construction
- Hydraulic considerations for sizing
  - Meeting pressure requirements
  - Fire flow
  - Proximity / Multiple interconnections to existing system

![](_page_18_Picture_1.jpeg)

#### Project Details:

- 2.00 miles
- 33 potential accounts (2021)
- 13 additional potential accounts (2040)
- 8 Short Line applicants
- 47 adjacent parcels
- 17 meters/mi@ 100% participation
- 6 meters/mi @ 33% participation
- Composite score = 67
- \$5.2M \$5.8M

#### Cost per potential 2021 account:

- \$158k \$176k @ 100% participation
- \$478k \$533k @ 33% participation

## Interdependencies:

Must build WEP 2 before WEP 1

## Water Expansion Project 2 (replaces 2021-137)

![](_page_19_Figure_1.jpeg)

#### Project Details:

• 2.76 miles

- 49 potential accounts (2021)
- 29 additional potential accounts (2040)
- 20 Short Line applicants
- 54 adjacent parcels
- 20 meters/mi@ 100% participation
- 7 meters/mi @ 33% participation
- Composite score = 63
- \$6.8M \$7.6M

## Cost per potential 2021 account:

- \$139k \$155k @ 100% participation
- \$421k \$470k @ 33% participation

## Interdependencies:

## Water Expansion Project 3 (replaces 2021-140)

![](_page_20_Picture_1.jpeg)

#### Project Details:

• 1.05 miles

- 12 potential accounts (2021)
- 7 additional potential accounts (2040)
- 10 Short Line applicants
- 28 adjacent parcels
- 11 meters/mi @ 100% participation
- 4 meters/mi @ 33% participation
- Composite score = 63
- \$2.7M \$3.1M

#### Cost per potential 2021 account:

- \$225k \$258k @ 100% participation
- \$682k \$783k @ 33% participation

#### Interdependencies:

![](_page_21_Picture_1.jpeg)

#### Project Details:

- 2.91 miles
- 81 potential accounts (2021)
- 44 additional potential accounts (2040)
- 5 Short Line applicants
- 112 adjacent parcels
- 29 meters/mi@ 100% participation
- 10 meters/mi @ 33% participation
- Composite score = 62
- \$8.3M \$9.2M

## Cost per potential 2021 account:

- \$102k \$114k @ 100% participation
- \$311k \$344k @ 33% participation

#### Interdependencies:

![](_page_22_Picture_1.jpeg)

#### Project Details:

- 2.45 miles
- 38 potential accounts (2021)
- 104 additional potential accounts (2040)
- 10 Short Line applicants
- 54 adjacent parcels
- 16 meters/mi @ 100% participation
- 5 meters/mi @ 33% participation
- Composite score = 58
- \$6.5M \$7.2M

## Cost per potential 2021 account:

- \$171k \$189k @ 100% participation
- \$518k \$574k @ 33% participation

## Interdependencies:

![](_page_23_Picture_1.jpeg)

#### Project Details:

- 1.47 miles
- 22 potential accounts (2021)
- 12 additional potential accounts (2040)
- 5 Short Line applicants
- 28 adjacent parcels
- 15 meters/mi @ 100% participation
- 5 meters/mi@33% participation
- Composite score = 57
- \$3.8M \$4.3M

#### Cost per potential 2021 account:

- \$173k \$195k @ 100% participation
- \$523k \$592k @ 33% participation

## Interdependencies:

• Must build WEP 2&WEP 10 before WEP 6

![](_page_24_Picture_1.jpeg)

#### Project Details:

- 1.54 miles
- 43 potential accounts (2021)
- 32 additional potential accounts (2040)
- 3 Short Line applicants
- 54 adjacent parcels
- 28 meters/mi @ 100% participation
- 9 meters/mi @ 33% participation
- Composite score = 55
- \$4.0M \$4.5M

#### Cost per potential 2021 account:

- \$93k \$105k @ 100% participation
- \$282k \$317k @ 33% participation

#### Interdependencies:

## Water Expansion Project 8 (replaces part of 2021-136)

![](_page_25_Figure_1.jpeg)

#### Project Details:

- 2.72 miles
- 75 potential accounts (2021)
- 6 additional potential accounts (2040)
- 5 Short Line applicants
- 76 adjacent parcels
- 28 meters/mi @ 100% participation
- 9 meters/mi @ 33% participation
- Composite score = 53
- \$9.6M \$10.8M

#### Cost per potential 2021 account:

- \$128k \$144k @ 100% participation
- \$388k \$436k @ 33% participation

## Interdependencies:

• Must build WEP 1 & WEP 2 before WEP 8

![](_page_26_Picture_1.jpeg)

#### Project Details:

- 3.34 miles
- 67 potential accounts (2021)
- 22 additional potential accounts (2040)
- 5 Short Line applicants
- 80 adjacent parcels
- 20 meters/mi@ 100% participation
- 7 meters/mi@33% participation
- Composite score = 48
- \$8.8M \$9.9M

#### Cost per potential 2021 account:

- \$131k \$148k @ 100% participation
- \$398k \$448k @ 33% participation

#### Interdependencies:

![](_page_27_Picture_1.jpeg)

#### Project Details:

- 2.34 miles
- 41 potential accounts (2021)
- 14 additional potential accounts (2040)
- 5 Short Line applicants
- 37 adjacent parcels
- 18 meters/mi @ 100% participation
- 6 meters/mi @ 33% participation
- Composite score = 47
- \$6.1M \$6.8M

#### Cost per potential 2021 account:

- \$149k \$166k @ 100% participation
- \$451k \$503k @ 33% participation

#### Interdependencies:

Must build WEP 2 before WEP 10

![](_page_28_Picture_1.jpeg)

#### Project Details:

- 1.79 miles
- 31 potential accounts (2021)
- 180 additional potential accounts (2040)
- 0 Short Line applicants
- 51 adjacent parcels
- 17 meters/mi@ 100% participation
- 6 meters/mi @ 33% participation
- Composite score = 38
- \$4.6M \$5.2M

## Cost per potential 2021 account:

- \$148k \$168k @ 100% participation
- \$450k \$508k @ 33% participation

## Interdependencies:

Must build WEP 5 before WEP 11

## Summary

Project Number	Pipe Length (miles)	Potential Accounts (2021) <sup>1</sup>	Additional Potential Accounts (2040) <sup>2</sup>	Short Line Applicants	Preliminary Estimated Cost	Estimated Cost per Account (2021 @ 33%)	Composite Score
1	2.00	33	13	8	\$5.2M - \$5.8M	\$478k - \$533k	67
2	2.76	49	29	20	\$6.8M - \$7.6M	\$421k - \$470k	63
3	1.05	12	7	10	\$2.7M - \$3.1M	\$682k - \$783k	63
4	2.91	81	44	5	\$8.3M - \$9.2M	\$311k - \$344k	62
5	2.45	38	104	10	\$6.5M - \$7.2M	\$518k - \$574k	58
6	1.47	22	12	5	\$3.8M - \$4.3M	\$523k - \$592k	57
7	1.54	43	32	3	\$4.0M - \$4.5M	\$282k - \$317k	55
8	2.72	75	6	5	\$9.6M - \$10.8M	\$388k - \$436k	53
9	3.34	67	22	5	\$8.8M - \$9.9M	\$398k - \$448k	48
10	2.34	41	14	5	\$6.1M - \$6.8M	\$451k - \$503k	47
11	1.79	31	180	0	\$4.6M - \$5.2M	\$450k - \$508k	38
Total	23.4	492	463	76	\$66.4M - \$74.4M	\$450k - \$508k	

Brown and Caldwell

<sup>1</sup> Potential Accounts (2021) indicates unserved existing residents <sup>2</sup> Potential Accounts (2040) indicates new residents due to growth

## **Project Interdependence**

![](_page_30_Figure_1.jpeg)

## **Summary**

Project Number	Pipe Length (miles)	Potential Accounts (2021) <sup>1</sup>	Additional Potential Accounts (2040) <sup>2</sup>	Short Line Applicants	Preliminary Estimated Cost	Cumulative Preliminary Estimated Cost	Composite Score
1	2.00	33	13	8	\$5.2M - \$5.8M	\$5.2M - \$5.8M	67
2	2.76	49	29	20	\$6.8M - \$7.6M	\$12.0M - \$13.4M	63
3	1.05	12	7	10	\$2.7M - \$3.1M	\$14.7M - \$16.5M	63
4	2.91	81	44	5	\$8.3M - \$9.2M	\$23.0M - \$25.7M	62
5	2.45	38	104	10	\$6.5M - \$7.2M	\$29.5M - \$32.9M	58
6	1.47	22	12	5	\$3.8M - \$4.3M	\$33.3M - \$37.2M	57
7	1.54	43	32	3	\$4.0M - \$4.5M	\$37.3M - \$41.7M	55
8	2.72	75	6	5	\$9.6M - \$10.8M	\$46.9M - \$52.5M	53
9	3.34	67	22	5	\$8.8M - \$9.9M	\$55.7M - \$62.4M	48
10	2.34	41	14	5	\$6.1M - \$6.8M	\$61.8M - \$69.2M	47
11	1.79	31	180	0	\$4.6M - \$5.2M	\$66.4M - \$74.4M	38

Brown and Caldwell

<sup>1</sup> Potential Accounts (2021) indicates unserved existing residents <sup>2</sup> Potential Accounts (2040) indicates new residents due to growth

## Recommendations

Project Number	Pipe Length (miles)	Potential Accounts (2021) <sup>1</sup>	Additional Potential Accounts (2040) <sup>2</sup>	Short Line Applicants	Preliminary Estimated Cost	Cumulative Preliminary Estimated Cost	Composite Score
1	2.00	33	13	8	\$5.2M - \$5.8M	\$5.2M - \$5.8M	67
2	2.76	49	29	20	\$6.8M - \$7.6M	\$12.0M - \$13.4M	63
3				10			
4	2.91	81	44	5	\$8.3M - \$9.2M	\$20.3M - \$22.6M	62
5	2.45	38	104	10	\$6.5M - \$7.2M	\$26.8M - \$29.8M	58
6	1.47	22	12	5	\$3.8M - \$4.3M	-	57
7	1.54	43	32	3	\$4.0M - \$4.5M	\$30.8M - \$34.3M	55
8	2.72	75	6	5	\$9.6M - \$10.8M	-	53
9	3.34	67	22	5	\$8.8M - \$9.9M	\$39.6M - \$44.2M	48
10	2.34	41	14	5	\$6.1M - \$6.8M	-	47
11				0			

Brown and Caldwell

<sup>1</sup> Potential Accounts (2021) indicates unserved existing residents <sup>2</sup> Potential Accounts (2040) indicates new residents due to growth

![](_page_33_Figure_0.jpeg)

## **Cost Estimate and Schedule Risks**

- Highly volatile construction market; cannot be accurately estimated
- Scope uncertainty, changes
- Supply chain risks
- Administrative efforts, deadlines, and costs associated with funding

# Thank you. Questions?

![](_page_35_Picture_1.jpeg)