

Operation and Maintenance Annual Cost Estimate

City of Newport WWTP

Alternate A: Do Nothing, Continue Operation of Existing Plant

		Estimated												-
		Annual Labor					pment	Electrical	Chen	nical				
Description		Hours	Labor Rate	_		Cost		Cost	Cost		Oth	er	Tota	
Clerical/Administration	3	156	\$ 53	\$	8,268	\$	1,000						\$	9,268
Influent Flow Meters	8	416	\$ 53	+ -	22,048	\$	2,500				<u> </u>		\$	24,548
Receiving Station (offline)	1	52	\$ 53	\$	2,756	\$	-						\$	2,756
Headworks-Bar Rack	2	104	\$ 53	\$	5,512	\$	300						\$	5,812
Headworks-Mechanical Fine Screen	2	104	\$ 53	\$	5,512	\$	12,500						\$	18,012
Headworks-Vortex Grit Chamber	2	104	\$ 53	\$	5,512	\$	6,500						\$	12,012
Primary Clarifier (offline)	1	52		\$	2,756	\$	-						\$	2,756
Aeration Basin-Oxidation Ditch	8	416	\$ 53	\$	22,048	\$	7,500						\$	29,548
Secondary Clarifier 1	8	416	\$ 53	\$	22,048	\$	7,000						\$	29,048
Secondary Clarifier 2	8	416	\$ 53	\$	22,048	\$	7,000						\$	29,048
Chlorine Contact Basin, Injection Equipment	2	104	\$ 53	\$	5,512	\$	2,000		\$	2,800			\$	10,312
Outfall to Pend Oreille River	1	52	\$ 53	\$	2,756	\$	-						\$	2,756
Primary Solids Pumps (offline)	1	52	\$ 53	\$	2,756	\$	-						\$	2,756
Anaerobic Digester (offline)	1	52	\$ 53	\$	2,756	\$	-						\$	2,756
Activated Sludge Pump Station 1	8	416	\$ 53	\$	22,048	\$	12,000						\$	34,048
Activated Sludge Pump Station 2, Reclaim Water Pump	10	520	\$ 53	\$	27,560	\$	15,000						\$	42,560
Aerobic Digester (Solids Holding Lagoon)	4	208	\$ 53	\$	11,024	\$	10,000						\$	21,024
Belt Filter Press, Gravity Belt Thickener	8	416	\$ 53	\$	22,048	\$	7,000		\$	6,500			\$	35,548
Site Maintenance and Upkeep	2	104	\$ 53	\$	5,512	\$	1,000						\$	6,512
Reclaimed Water Distribution System	6	312	\$ 53	\$	16,536	\$	3,500						\$	20,036
Plant Power, Lighting, Heating								\$ 50,000					\$	50,000
Water Utilities											\$	60,000	\$	60,000
Outside Lab Costs											\$	7,000	\$	7,000
Sludge Hauling Service											\$	31,000	\$	31,000
DOE Permits											\$	6,500	\$	6,500
Office and Operating Supplies											\$	30,000	\$	30,000
Fuel Consumed											\$	11,000	\$	11,000
TOTAL	86	4472		\$	237,016	\$	94,800	\$ 50,000	\$	9,300	\$	145,500	\$	536,616

Newport WWTP Summary Alternative B Detailed Costs

Pg. #	Item Description	Construction Cost	Construction Cost + Contingency +AIS/BABAA/Prevailing Wage + Sales Tax	Total Cost with Contingency, Taxes, Engineering, Prevailing Wages/AIS, Admin
1	Overall Site Improvements	\$ 2,295,000	\$ 3,696,000	\$ 4,561,000
2	Headworks Improvements	\$ 366,000	\$ 589,000	\$ 727,000
3	Lab Office Upgrades/Renovation	\$ 1,180,000	\$ 1,900,000	\$ 2,345,000
4	Belt Filter Press Upgrades	\$ 542,000	\$ 873,000	\$ 1,078,000
5	Existing Oxidation Ditch Upgrades	\$ 1,108,000	\$ 1,784,000	\$ 2,201,000
6	Clarifier Repairs	\$ 1,344,000	\$ 2,164,000	\$ 2,670,000
7	New Clarifier #3	\$ 2,168,000	\$ 3,491,000	\$ 4,307,000
8	Pumphouse #1 Upgrades	\$ 1,708,000	\$ 2,750,000	\$ 3,393,000
9	Pumphouse #2 Upgrades	\$ 1,656,000	\$ 2,667,000	\$ 3,291,000
10	Aerobic Digester	\$ 1,697,000	\$ 2,732,000	\$ 3,371,000
	TOTAL	\$ 14,064,000	\$ 22,646,000	\$ 27,944,000
11	New Shop/Office (alternate to renovation)	\$ 2,422,000	\$ 3,900,000	\$ 4,812,000
	TOTAL with New Shop/Office, no existing upgrades	\$ 15,306,000	\$ 24,646,000	\$ 30,411,000

Planning

858,000 7,000

4,561,000

5/26/2023

DATE:

Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$

TOTAL PROBABLE COST (2023 DOLLARS) \$

PROJECT: City of Newport WWTP Alternative B

PROJECT DESCRIPTION:

Overall Site Improvements

CLIENT:

City of Newport 70-20-023

P/N:

P/N:	70-20-023					,
ITEM			SCI	HEDULE OF VALU	ES	
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TC	TAL COST
1	Onsite Domestic Fire Hydrant	1	LS	\$15,000		\$15,000
2	SCADA system with security cameras	1	LS	\$275,000		\$275,000
3	Combine power sources into one feed	1	LS	\$200,000		\$200,000
4	Yard valve replacement throughout plant	20	EA	\$5,000		\$100,000
5	Reclaimed water system replacement and filtration system	1	LS	\$350,000		\$350,000
6	Backup generator	1	LS	\$500,000		\$500,000
7	Vactor truck	1	LS	\$600,000		\$600,000
8						-
9						-
10						-
11						-
12						-
13						-
14						-
15	Additional Elements (estimated % of above)					-
16	Contractor mobilization / administration			10.0%		\$204,000
17	Yard Piping			0.0%		\$0
18	Site Civil			0.0%		\$0
19	Electrical and instrumentation			0.0%		\$0
20	Bonding			2.5%		\$51,000
			<u> </u>	SUBTOTAL	\$	2,295,000
		Cons	truction Co	ontingency: 30.0%	\$	689,000
				Escalation:15.0%		448,000
				Sales Tax: 7.7%	\$	264,000
			_		<u> </u>	

Planning

5/26/2023

PROJECT:

City of Newport WWTP Alternative B

PROJECT DESCRIPTION:

Headworks: Screening, furnace replacement, move MCC room

CLIENT:

City of Newport

P/N:	70-20-023

ITEM		SCHEDULE OF VALUES						
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST			
	Fine Screening				-			
1	2 mgd fine screen	1	EA	\$175,000	\$175,000			
2	Installation at 20%	1	EA	\$35,000	\$35,000			
3	Electrical revisions for independent screen operation	1	LS	\$100,000	\$100,000			
4	Replace/support grit chamber piping	1	LS	\$15,000	\$15,000			
5								
6	Additional Elements (estimated % of above)							
7	Contractor mobilization / administration			10.0%	\$33,000			
8	Yard Piping			0.0%	\$0			
9	Site Civil			0.0%	\$0			
10	Electrical and instrumentation			0.0%	\$0			
11	Bonding			2.5%	\$8,000			
	, and the second							

SUBTOTAL 366,000 110,000 Construction Contingency: 30.0%

DATE:

71,000 42,000

AIS/BABAA Escalation:15.0% Sales Tax: 7.7% Design / CMS: 25.0% Legal and Administrative: 0.2% \$ 137,000 1,000

Planning

5/26/2023

PROJECT:

City of Newport WWTP Alternative B

PROJECT DESCRIPTION:

Lab/Office Renovation

CLIENT:

City of Newport 70-20-023

P/N:

ITEM		SCHEDULE OF VALUES							SCHEDULE OF VALUES			JES
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST							
1	Demolition for office/break room addition	576	SF	\$150	\$86,400							
2	Office/break room addition	576	SF	\$600	\$345,600							
3	Roof replacement over entire structure	1568	SF	\$40	\$62,720							
4	New flooring, countertops, cubboards in lab area	1	LS	\$60,000	\$60,000							
5	Extend bathroom into old chlorine room and add shower/sink	128	SF	\$350	\$44,800							
6	Remove all unused electrical panels, bring up to code	1	LS	\$200,000	\$200,000							
7					-							
8					-							
9					-							
10					-							
11	Additional Elements (estimated % of above)				-							
12	Contractor mobilization / administration			10.0%	\$80,000							
13	Yard Piping			0.0%	\$0							
14	Site Civil			5.0%	\$40,000							
15	Electrical and instrumentation			30.0%	\$240,000							
16	Bonding			2.5%	\$20,000							

SUBTOTAL 1,180,000

construction Contingency: 30.0% \$
AIS/BABAA Escalation:15.0% \$
Sales Tax: 7.7% \$
Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ 354,000 230,000 Construction Contingency: 30.0% 136,000

DATE:

441,000

4,000 TOTAL PROBABLE COST (2023 DOLLARS) \$ 2,345,000

Planning

PROJECT: DATE: 5/26/2023

City of Newport WWTP Alternative B

PROJECT DESCRIPTION:

Belt filter press building renovations (upgrades to support systems, refurbishing existing)

CLIENT:

City of Newport 70-20-023

ITEM		SCHEDULE OF VALUES						
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST			
1	Replace heaters	8	EA	\$4,000	\$32,000			
2	1100 gallon pressure tank	1	LS	\$20,000	\$20,000			
3	Upgrade shower boxes on gravity and press section	1	LS	\$80,000	\$80,000			
4	Domestic water feed line	1	LS	\$20,000	\$20,000			
5	Air gap skid system	1	LS	\$150,000	\$150,000			
6	Upgrade lift station with new pumps	1	LS	\$50,000	\$50,000			
7	Sludge trailer	1	LS	\$130,000	\$130,000			
8					-			
9					-			
10					-			
11					-			
12	Additional Elements (estimated % of above)				-			
13	Contractor mobilization / administration			10.0%	\$48,000			
14	Yard Piping			0.0%	\$0			
15	Site Civil			0.0%	\$0			
16	Electrical and instrumentation			0.0%	\$0			
17	Bonding			2.5%	\$12,000			
ı								

SUBTOTAL 542,000

Construction Contingency: 30.0% 163,000 106,000

62,000

AIS/BABAA Escalation:15.0% \$
Sales Tax: 7.7% \$
Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ 203,000 2,000

Planning

5/26/2023

PROJECT: DATE:

City of Newport WWTP Alternative B

PROJECT DESCRIPTION:

Oxidation ditch upgrades for existing ditch

CLIENT:

City of Newport 70-20-023

P/N:

ITEM		SCHEDULE OF VALUES							SCHEDULE OF VALUES			JES
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST							
1	Upgrade drive, gear box, paddle system	1	LS	\$175,000	\$175,000							
2	Replace building over drive system	100	SF	\$250	\$25,000							
3	New control panel with VFD for drive system w/DO control	1	LS	\$125,000	\$125,000							
4	Construct backup aeration system on opposite end of basin	1	LS	\$350,000	\$350,000							
5	Replace grating on influent distribution box	80	SF	\$120	\$9,600							
6	Repair outflow distribution box	1	LS	\$300,000	\$300,000							
7					-							
8					-							
9					-							
10					-							
11	Additional Elements (estimated % of above)				-							
12	Contractor mobilization / administration			10.0%	\$98,000							
13	Yard Piping			0.0%	\$0							
14	Site Civil			0.0%	\$0							
15	Electrical and instrumentation			0.0%	\$0							
16	Bonding			2.5%	\$25,000							
		1										

SUBTOTAL 1,108,000

2,201,000

nstruction Contingency: 30.0% \$
AIS/BABAA Escalation:15.0% \$ 332,000 216,000 Construction Contingency: 30.0% Sales Tax: 7.7% \$ 128,000

Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ 414,000 3,000

Planning

PROJECT: DATE: 5/26/2023

City of Newport WWTP Alternative B

PROJECT DESCRIPTION: Clarifier repairs

CLIENT:

City of Newport 70-20-023

P/N:

ITEM			SCHEDULE OF VALUES						
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST				
1	Clarifier #1 equipment replacement	1	LS	\$250,000	\$250,000				
2	Clarifier #1 concrete inspection and repairs	2200	SF	\$75	\$165,000				
3	Clarifier #2 equipment replacement	1	LS	\$250,000	\$250,000				
4	Clarifier #2 concrete inspection and repairs	2500	SF	\$75	\$187,500				
5	Reshape Clarifier #2 trough and level weir	1	LS	\$90,000	\$90,000				
6					-				
7					-				
8					-				
9					-				
10					-				
11	Additional Elements (estimated % of above)				-				
12	Contractor mobilization / administration			10.0%	\$94,000				
13	Yard Piping			0.0%	\$0				
14	Site Civil			0.0%	\$0				
15	Electrical and instrumentation			30.0%	\$283,000				
16	Bonding			2.5%	\$24,000				

SUBTOTAL 1,344,000

2,670,000

Construction Contingency: 30.0% \$
AIS/BABAA Escalation:15.0% \$
Sales Tax: 7.7% \$
Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ 403,000 262,000 155,000

502,000 4,000

Planning

4,307,000

PROJECT: DATE: 5/26/2023

City of Newport WWTP Alternative B PROJECT DESCRIPTION:

New Clarifier #3

CLIENT:

City of Newport 70-20-023

P/N:

		SCHEDULE OF VALUES					
DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST			
Concrete - Vertical Walls	76	CY	\$1,500	\$114,000			
Concrete - Slab on Grade	81	_	\$1,000	\$81,000			
Concrete - Weir Channel	15	_		\$33,000			
Appurtenant Mechanical Equipment	1		'''	\$325,000			
Hand Rail	130			\$32,500			
Structure Excavation	1680		, , ,	\$84,000			
Excavation Shoring	3020		\$75	\$226,500			
Excavation Dewatering	1	LS	\$75,000	\$75,000			
Underdrain with outlet pipe	1	LS	\$50,000	\$50,000			
Yard Piping			10.00%	\$102,100			
Valving in Pumphouse #2	1	LS	\$450,000	\$450,000			
Chlorination upgrades	1	LS	\$150,000	\$150,000			
Electrical and Instrumentation			20.00%	\$204,200			
				-			
				-			
				-			
				-			
,				-			
				\$193,000			
				\$0			
				\$0			
Electrical and instrumentation				\$0			
Bonding			2.5%	\$48,000			
				\$ 2,168,000 \$ 650,000			
Construction Contingency: 30.0%							
	Al	S/BABAA		\$ 423,000			
			Sales Tax: 7.7%	\$ 250,000			
	Concrete - Vertical Walls Concrete - Slab on Grade Concrete - Weir Channel Appurtenant Mechanical Equipment Hand Rail Structure Excavation Excavation Shoring Excavation Dewatering Underdrain with outlet pipe Yard Piping Valving in Pumphouse #2 Chlorination upgrades Electrical and Instrumentation Additional Elements (estimated % of above) Contractor mobilization / administration Yard Piping Site Civil Electrical and instrumentation Bonding	Concrete - Vertical Walls Concrete - Slab on Grade Concrete - Slab on Grade Concrete - Weir Channel Appurtenant Mechanical Equipment Hand Rail Structure Excavation Excavation Shoring Excavation Dewatering Underdrain with outlet pipe Yard Piping Valving in Pumphouse #2 Chlorination upgrades Electrical and Instrumentation Additional Elements (estimated % of above) Contractor mobilization / administration Yard Piping Site Civil Electrical and instrumentation Consti	DESCRIPTION Concrete - Vertical Walls Concrete - Slab on Grade Concrete - Weir Channel Appurtenant Mechanical Equipment Hand Rail Structure Excavation Excavation Shoring Excavation Dewatering Underdrain with outlet pipe Yard Piping Valving in Pumphouse #2 Chlorination upgrades Electrical and Instrumentation Additional Elements (estimated % of above) Contractor mobilization / administration Yard Piping Site Civil Electrical and instrumentation Construction Constructi	DESCRIPTION			

Planning

638,000

3,393,000

5,000

5/26/2023

DATE:

Design / CMS: 25.0%

Legal and Administrative: 0.2%

TOTAL PROBABLE COST (2023 DOLLARS) \$

PROJECT:

City of Newport WWTP Alternative B

PROJECT DESCRIPTION:

Pumphouse #1 repairs

CLIENT:

City of Newport

P/N: 70-20-023

ITEM	70-20-023	SCHEDULE OF VALUES					
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	T01	AL COST	
1	Replace piping and valving	1	LS	\$375,000		\$375,000	
2	Ventilation with monitoring for basement area	1	LS	\$125,000		\$125,000	
3	Excavate and seal basement walls with drainage	4500	SF	\$50		\$225,000	
4	New sump pump system (WAS line and flows from PH #2)	1	LS	\$100,000		\$100,000	
5	Replace conduits with water issues	1	LS	\$50,000		\$50,000	
6	Overhead hoist in basement	1	LS	\$175,000		\$175,000	
7	Basement extension for stairway, concrete - vertical walls	23	CY	\$1,500		\$34,500	
8	Basement extension for stairway, concrete - slab on grade	13	CY	\$1,000		\$13,000	
9	Building above basement	176	SF	\$300		\$52,800	
10	Structure excavation	320	CY	\$50		\$16,000	
11	Excavation shoring	1230	SF	\$75		\$92,250	
12	Underdrain with outlet pipe	1	LS	\$75,000		\$75,000	
13	Yard piping (as percentage of extension costs)			30%		\$85,065	
14	Electrical and Instrumentation and HVAC (as %of extension)			35%		\$99,243	
15						-	
16						-	
17						-	
18						-	
19	Additional Elements (estimated % of above)					-	
20	Contractor mobilization / administration			10.0%		\$152,000	
21	Yard Piping			0.0%		\$0	
22	Site Civil			0.0%		\$0	
23	Electrical and instrumentation			0.0%		\$0	
24	Bonding			2.5%		\$38,000	
					\$	1,708,000	
				5 ,		512,000	
		Al	S/BABAA	Escalation:15.0%		333,000	
				Sales Tax: 7.7%	\$	197,000	

Planning

191,000

619,000 5,000

3,291,000

5/26/2023

DATE:

Design / CMS: 25.0% Legal and Administrative: 0.2%

TOTAL PROBABLE COST (2023 DOLLARS) \$

Sales Tax: 7.7%

PROJECT:

City of Newport WWTP Alternative B

PROJECT DESCRIPTION:

Pumphouse #2 repairs

CLIENT:

City of Newport

P/N:	70-20-023

ITEM	10-20-020	SCHEDULE OF VALUES					
NO.	DESCRIPTION	QNTY	UNIT	TOTAL COST			
1	Replace 8" valves RAS-AUX-WAS	2	EA	\$7,000	\$14,000		
2	Ventilation for basement area	1	LS	\$135,000	\$135,000		
3	Excavate and seal basement walls with drainage	7500	SF	\$50	\$375,000		
4	Upgrade motor control center	1	LS	\$330,000	\$330,000		
5	Repair damaged bathroom	64	SF	\$200	\$12,800		
6	Overhead hoist in basement	1	LS	\$175,000	\$175,000		
7	Replace sump pump	1	LS	\$12,000	\$12,000		
8	Basement extension for stairway, concrete - vertical walls	23	CY	\$1,500	\$34,500		
9	Basement extension for stairway, concrete - slab on grade	13	CY	\$1,000	\$13,000		
10	Building above basement	176	SF	\$300	\$52,800		
11	Structure excavation	320	CY	\$50	\$16,000		
12	Excavation shoring	1230	SF	\$75	\$92,250		
13	Underdrain with outlet pipe	1	LS	\$45,000	\$45,000		
14	Yard piping (as percentage of extension costs)			\$0	\$76,065		
15	Electrical and Instrumentation and HVAC (as %of extension)			\$0	\$88,743		
16					-		
17					-		
18					-		
19					-		
20					-		
21	Additional Elements (estimated % of above)				-		
22	Contractor mobilization / administration			10.0%	\$147,000		
23	Yard Piping			0.0%	\$0		
24	Site Civil			0.0%	\$0		
25	Electrical and instrumentation			0.0%	\$0		
26	Bonding			2.5%	\$37,000		
				SUBTOTAL	\$ 1,656,000		
		Cons	truction Co	ontingency: 30.0%			
				Escalation:15.0%			
AIS/DADAA ESCALATION 13.0%							

Pumphouse #2 NP Newport WWTP Alternative B

Planning

5/26/2023

DATE:

PROJECT: City of Newport WWTP Alternative B PROJECT DESCRIPTION:

Aerobic digester

CLIENT:

City of Newport

P/N : 70-20-023								
ITEM		SCHEDULE OF VALUES						
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Demolish existing structure Construct new building with overhead hoist Building lighting Digester lift station upgrade for dual pumps on rails	2800 2800 1 1	SF SF LS LS	\$60 \$400 \$100,000 \$120,000	\$168,00 \$1,120,00			
16 17 18 19 20 21 22 23	Additional Elements (estimated % of above) Contractor mobilization / administration Yard Piping Site Civil Electrical and instrumentation Bonding			10.0% 0.0% 0.0% 0.0% 2.5%	\$151,00 \$ \$ \$ \$38,00			
	Legal and Administrative: 0.2% TOTAL PROBABLE COST (2023 DOLLARS)							

Planning

4,812,000

5/26/2023

DATE:

PROJECT:

City of Newport WWTP Alternative B

PROJECT DESCRIPTION:

New Shop/Office/Lab

CLIENT:

City of Newport

ITEM	70-20-023	SCHEDULE OF VALUES						
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST			
1	Clearing and grubbing	0.69	ACRE	\$12,000	\$8,280			
2	Site excavation	14400	CY	\$20	\$288,000			
3	Steel shop/lab/office building, 50'X100'	5000	SF	\$250	\$1,250,000			
4	Finish office/lab space, 30'X50'	1500	SF	\$300	\$450,000			
5	Extend 8" water line to shop	250	LF	\$110	\$27,500			
6	Fire hydrant	1	LS	\$8,000	\$8,000			
7	Extend sewer line to shop/office/lab	200	LF	\$90	\$18,000			
8	Crushed surfacing top course for driveway	620	TONS	\$50	\$31,000			
9	Hot mix asphalt for driveway	400	TONS	\$180	\$72,000			
10					-			
11					-			
12					-			
13					-			
14					-			
15					-			
16	Additional Elements (estimated % of above)				-			
17	Contractor mobilization / administration			10.0%	\$215,000			
18	Yard Piping			0.0%	\$0			
19	Site Civil			0.0%	\$0			
20	Electrical and instrumentation			0.0%	\$0			
21	Bonding			2.5%	\$54,000			
				SUBTOTAL				
	\$ 727,000							
		Al	S/BABAA	Escalation:15.0%				
			_	Sales Tax: 7.7%				
				ign / CMS: 25.0%				
		Leg	gal and Ad	ministrative: 0.2%	\$ 7,000			

Operation and Maintenance Annual Cost Estimate

City of Newport WWTP

Alternate B: Repair and Upgrade Existing Facilities

		Estimated												
	· ·	Annual Labor					pment	Electrical	Chen	nical				
Description		Hours	Labor Rate	_		Cost		Cost	Cost		Oth	er	Tota	
Clerical/Administration	3	156	\$ 53	\$	8,268	\$	1,000						\$	9,268
Influent Flow Meters	8	416	\$ 53	+ -	22,048	\$	2,500				<u> </u>		\$	24,548
Receiving Station (offline)	1	52	\$ 53	\$	2,756	\$	-						\$	2,756
Headworks-Bar Rack	2	104	\$ 53	\$	5,512	\$	300						\$	5,812
Headworks-Mechanical Fine Screen	2	104	\$ 53	\$	5,512	\$	12,500						\$	18,012
Headworks-Vortex Grit Chamber	2	104	\$ 53	\$	5,512	\$	6,500						\$	12,012
Primary Clarifier (offline)	1	52		\$	2,756	\$	-						\$	2,756
Aeration Basin-Oxidation Ditch	8	416	\$ 53	\$	22,048	\$	7,500						\$	29,548
Secondary Clarifier 1	8	416	\$ 53	\$	22,048	\$	7,000						\$	29,048
Secondary Clarifier 2	8	416	\$ 53	\$	22,048	\$	7,000						\$	29,048
Chlorine Contact Basin, Injection Equipment	2	104	\$ 53	\$	5,512	\$	2,000		\$	2,800			\$	10,312
Outfall to Pend Oreille River	1	52	\$ 53	\$	2,756	\$	-						\$	2,756
Primary Solids Pumps (offline)	1	52	\$ 53	\$	2,756	\$	-						\$	2,756
Anaerobic Digester (offline)	1	52	\$ 53	\$	2,756	\$	-						\$	2,756
Activated Sludge Pump Station 1	8	416	\$ 53	\$	22,048	\$	12,000						\$	34,048
Activated Sludge Pump Station 2, Reclaim Water Pump	10	520	\$ 53	\$	27,560	\$	15,000						\$	42,560
Aerobic Digester (Solids Holding Lagoon)	4	208	\$ 53	\$	11,024	\$	10,000						\$	21,024
Belt Filter Press, Gravity Belt Thickener	8	416	\$ 53	\$	22,048	\$	7,000		\$	6,500			\$	35,548
Site Maintenance and Upkeep	2	104	\$ 53	\$	5,512	\$	1,000						\$	6,512
Reclaimed Water Distribution System	3	156	\$ 53	\$	8,268	\$	3,500						\$	11,768
Plant Power, Lighting, Heating								\$ 50,000					\$	50,000
Water Utilities											\$	20,000	\$	20,000
Outside Lab Costs											\$	7,000	\$	7,000
Sludge Hauling Service											\$	31,000	\$	31,000
DOE Permits											\$	6,500	\$	6,500
Office and Operating Supplies											\$	30,000	\$	30,000
Fuel Consumed											\$	11,000	\$	11,000
TOTAL	83	4316		\$	228,748	\$	94,800	\$ 50,000	\$	9,300	\$	105,500	\$	488,348

Newport WWTP Summary Alternative C Detailed Costs

Pg. #	Item Description	Construction Cost	Total Cost with Contingency, Taxes, Engineering, Prevailing Wages/AIS, Admin
2	Overall Site Civil Improvements	\$ 3,402,000	\$ 6,760,000
3	Headworks Improvements	\$ 1,739,000	\$ 3,455,000
4	Lab/Office Renovation	\$ 1,180,000	\$ 2,345,000
5	Belt Filter Press Upgrades	\$ 964,000	\$ 1,915,000
6	Existing Oxidation Ditch Upgrades	\$ 1,366,000	\$ 2,714,000
7	Clarifier #1&2 Repairs	\$ 1,344,000	\$ 2,670,000
8	Pumphouse #1 Upgrades	\$ 1,708,000	\$ 3,393,000
9	Pumphouse #2 Upgrades	\$ 1,656,000	\$ 3,291,000
10	Aerobic Digester	\$ 2,186,000	\$ 4,344,000
11	Primary Clarifier Repairs	\$ 713,000	\$ 1,417,000
12	Anaerobic Digester Repairs	\$ 1,093,000	\$ 2,172,000
13	Primary Solids Pump Station Repairs	\$ 793,000	\$ 1,576,000
	TOTAL	\$ 18,144,000	\$ 36,052,000
14	New Shop/Office (Alternate to Renovation)	\$ 2,422,000	\$ 4,812,000
	TOTAL with New Shop/Office, no existing upgrades	\$ 19,386,000	\$ 38,519,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C

PROJECT DESCRIPTION:
Overall Site Improvements

CLIENT:

City of Newport

P/N: 70-20-023

P/N:	70-20-023					
ITEM		SCHEDULE OF VALUES				
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST	
1	Clearing & Grubbing	2.50	AC	\$12,000	\$30,000	
2	Retaining Wall Repairs	200	SF	\$40	\$8,000	
3	Chain link fence removal and replacement	2100	LF	\$80	\$168,000	
4	Fence retaining wall	2000	SF	\$100	\$200,000	
5	Sidewalk and steps	61	CY	\$1,200	\$73,333	
6	Onsite Domestic Fire Hydrant	1	LS	\$15,000	\$15,000	
7	Replace fire extinguisher boxes	20	EA	\$250	\$5,000	
8	SCADA system with security cameras	1	LS	\$275,000	\$275,000	
9	Electrical upgrades throughout plant	1	LS	\$500,000	\$500,000	
10	Combine power sources into one	1	LS	\$200,000	\$200,000	
11	Yard valve replacement throughout plant	20	EA	\$5,000	\$100,000	
12	Reclaimed water system replacement and filtration system	1	LS	\$350,000	\$350,000	
13	Backup generator	1	LS	\$500,000	\$500,000	
14	Vactor Truck	1	LS	\$600,000	\$600,000	
15						
16						
17						
18					-	
19					-	
20					-	
21					-	
22	Additional Elements (estimated % of above)					
23	Contractor mobilization / administration			10.0%	\$302,000	
24	Yard Piping			0.0%	\$0	
25	Site Civil			0.0%	\$0	
26	Electrical and instrumentation			0.0%	\$0	
27	Bonding			2.5%	\$76,000	
28						

SUBTOTAL \$ 3,402,000

 Construction Contingency: 30.0%
 \$ 1,021,000

 AIS/BABAA Escalation: 15.0%
 \$ 663,000

 Sales Tax: 7.7%
 \$ 392,000

Design / CMS: 25.0% \$ 1,272,000 Legal and Administrative: 0.2% \$ 10,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C

PROJECT DESCRIPTION:

Headworks: Screening, furnace replacement, move MCC room

CLIENT:

City of Newport

P/N: 70-20-023

ITEM		SCHEDULE OF VALUES			
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	<u>Channel repairs</u>				-
2	Reshape bar grate channel for composite sampler	1	LS	\$12,000	\$12,000
3	Replace gates and rails	1	LS	\$20,000	
4	Bypass pumping for channel repairs	1	LS	\$5,000	\$5,000
5	Fine Screening				-
6	2 mgd fine screen	1	EA	\$175,000	\$175,000
7	Installation at 20%	1	EA	\$35,000	\$35,000
8	Electrical revisions for independent screen operation	1	LS	\$100,000	\$100,000
9	Replace heating system	1	LS	\$75,000	\$75,000
10	Relocate MCC Room				-
11	Demolish existing MCC room	140	SF	\$750	\$105,000
12	Construct Rollup Door in current MCC room location	1	LS	\$8,000	\$8,000
13	Construct MCC Addition	450	SF	\$600	\$270,000
14	Grit Removal				-
15	Replace existing grit pump	1	EA	\$20,000	\$20,000
16	Installation at 15%	1	EA	\$3,000	\$3,000
17	Replace/support grit chamber piping	1	LS	\$15,000	\$15,000
18	Traveling bridge crane 4000 lbs, free standing, with hoist	1	LS	\$175,000	\$175,000
19	Odor Control				-
20	Odor control for venting, carbon filtration, retrofit	1	LS	\$5,700	\$5,700
21	Cover channels with mats	1	LS	\$5,000	\$5,000
22	Air gap skid system	1	LS	\$150,000	\$150,000
23					-
24	Additional Elements (estimated % of above)				-
25	Contractor mobilization / administration			10.0%	\$118,000
26	Yard Piping			0.0%	\$0
27	Site Civil			5.0%	\$59,000
28	Electrical and instrumentation			30.0%	\$354,000
29	Bonding			2.5%	\$29,000
30	-				
				SUBTOTAL	\$ 1,739,000

Construction Contingency: 30.0% \$ 522,000 AIS/BABAA Escalation: 15.0% \$ 339,000 Sales Tax: 7.7% \$ 200,000

Design / CMS: 25.0% \$ 650,000

3,455,000

Legal and Administrative: 0.2% \$ 5,000 TOTAL PROBABLE COST (2023 DOLLARS)

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C

PROJECT DESCRIPTION:
Lab/Office Renovation

CLIENT:

City of Newport

P/N: 70-20-023

1 Demolition for office/break room addition 2 Office/break room addition 3 Roof replacement over entire structure 4 New flooring, countertops, cubboards in lab area 5 Extend bathroom into old chlorine room and add shower/sink 6 Remove all unused electrical panels, bring up to code 1 LS \$60,000 \$1 Extend bathroom into old chlorine room and add shower/sink Remove all unused electrical panels, bring up to code 1 LS \$200,000 \$20 1 LS \$200,000 \$21 2 Additional Elements (estimated % of above)	ITEM		SCHEDULE OF VALUES			
2	NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
Roof replacement over entire structure New flooring, countertops, cubboards in lab area Extend bathroom into old chlorine room and add shower/sink Remove all unused electrical panels, bring up to code Remove all unused electrical panels, bring up to code LS \$200,000 \$21 LS \$200,000 \$21 Additional Elements (estimated % of above)	1	Demolition for office/break room addition	576	SF		\$86,400
A New flooring, countertops, cubboards in lab area Extend bathroom into old chlorine room and add shower/sink Remove all unused electrical panels, bring up to code 1 LS \$60,000 St SF \$350 LS \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$400,0000 \$400,0000 \$400,0000 \$400,0000 \$400,0000 \$400,0000 \$40		Office/break room addition	576			\$345,600
Extend bathroom into old chlorine room and add shower/sink Remove all unused electrical panels, bring up to code \$200,000 \$200,0		Roof replacement over entire structure	1568			\$62,720
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)						\$60,000
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)			128			\$44,800
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)		Remove all unused electrical panels, bring up to code	1	LS	\$200,000	\$200,000
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)	I .					-
10 11 12 13 14 15 16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)						-
11 12 13 14 15 16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)	_					-
12 13 14 15 16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)	_					-
13 14 15 16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)						-
14 15 16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)						-
15 16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)	_					-
16 17 18 19 20 21 22 23 Additional Elements (estimated % of above)						-
17 18 19 20 21 22 23 Additional Elements (estimated % of above)	_					-
18 19 20 21 22 23 Additional Elements (estimated % of above)	_					-
19 20 21 22 23 Additional Elements (estimated % of above)						-
20 21 22 23 Additional Elements (estimated % of above)	_					-
21 22 23 Additional Elements (estimated % of above)	_					-
22 23 Additional Elements (estimated % of above)	_					-
23 Additional Elements (estimated % of above)						-
		Additional Flamoute (actionated 0) of above				-
1 2/1 I CONTRACTOR MODULIZATION / ADMINISTRATION I I I I I II II II II II II II II II I					40.00/	***
						\$80,000
25 Yard Piping 0.0%						\$0 \$40,000
						\$40,000
						\$240,000
28 Bonding 2.5% \$2		Donaing			2.5%	\$20,000

SUBTOTAL \$ 1,180,000

 Construction Contingency: 30.0%
 \$ 354,000

 AIS/BABAA Escalation: 15.0%
 \$ 230,000

 Sales Tax: 7.7%
 \$ 136,000

Design / CMS: 25.0% \$ 441,000

Legal and Administrative: 0.2% \$ 4,000

TOTAL PROBABLE COST (2023 DOLLARS) \$ 2,345,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C

PROJECT DESCRIPTION: Belt filter press building renovations

CLIENT:

City of Newport

P/N:	70-20-023	

ITEM		SCHEDULE OF VALUES			
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Replace heaters	8	EA	\$4,000	\$32,000
	Replace lights	11	EA	\$1,000	\$11,000
3	Traveling bridge crane and hoist	1	LS	\$180,000	\$180,000
4	1200 gallon pressure tank	1	LS	\$20,000	\$20,000
	Rebuild thickener system	1	LS	\$150,000	\$150,000
	Fix floor drains	1	LS	\$3,000	\$3,000
7	Upgrade shower boxes on gravity and press section	1	LS	\$80,000	\$80,000
	Domestic water feed line	1	LS	\$20,000	\$20,000
	Air gap skid system	1	LS	\$150,000	\$150,000
	Repair wall around conveyor system	1	LS	\$6,000	\$6,000
	Upgrade lift station with new pumps and full rails	1	LS	\$75,000	\$75,000
	Sludge trailer	1	LS	\$130,000	\$130,000
13					-
14					-
15					-
16					-
17					-
18					-
19					-
20					-
21					-
22	Additional Flamounts (actionated 0) of about				-
	Additional Elements (estimated % of above)			40.00/	±00.000
24	Contractor mobilization / administration			10.0%	\$86,000
25 26	Yard Piping Site Civil			0.0% 0.0%	\$0 \$0
26 27					\$0 \$0
	Electrical and instrumentation			0.0%	
28 29	Bonding			2.5%	\$21,000

SUBTOTAL \$ 964,000 289,000

Construction Contingency: 30.0% \$ AIS/BABAA Escalation: 15.0% \$ 188,000 Sales Tax: 7.7% \$ 111,000

Design / CMS: 25.0% \$ 360,000 Legal and Administrative: 0.2% \$ 3,000

TOTAL PROBABLE COST (2023 DOLLARS) 1,915,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C

PROJECT DESCRIPTION:

Oxidation ditch upgrades for existing ditch

CLIENT:

City of Newport

P/N:	70-20-0	023

ITEM	70-20-023	SCHEDULE OF VALUES			
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Upgrade drive, gear box, paddle system	1	LS	\$175,000	\$175,000
2	Replace building over drive system	100	SF	\$250	\$25,000
3	New control panel with VFD for drive system w/DO control	1	LS	\$125,000	\$125,000
4	Replace grating on influent distribution box	80	SF	\$120	\$9,600
5	Repair outflow distribution box	1	LS	\$150,000	\$150,000
6	Replace sprayer system	1	LS	\$30,000	\$30,000
7	Dredge oxidation ditch	1	LS	\$200,000	\$200,000
	Divert flow from ditch, drain, clean, inspect, rehabilitation (spot	1			
8	repairs, 6" concrete veneer, coatings at scum line)		LS	\$500,000	\$500,000
9					-
10					-
11					-
12					-
13					-
14					-
15					-
16					-
17					-
18					-
19					-
20					-
21 22					-
22	Additional Floments (estimated % of above)				-
23	Additional Elements (estimated % of above) Contractor mobilization / administration			10.0%	- \$121,000
25	Yard Piping			0.0%	\$121,000 \$0
26	Site Civil			0.0%	\$0 \$0
27	Electrical and instrumentation			0.0%	\$0 \$0
28	Bonding			2.5%	\$30,000
29				2.070	ψ00,000

SUBTOTAL \$ 1,366,000

 Construction Contingency: 30.0%
 \$ 410,000

 AIS/BABAA Escalation: 15.0%
 \$ 266,000

 Sales Tax: 7.7%
 \$ 157,000

Design / CMS: 25.0% \$ 511,000 Legal and Administrative: 0.2% \$ 4,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C PROJECT DESCRIPTION:

Clarifier repairs

CLIENT:

City of Newport

P/N: 70-20-023

ITEM	T-20-025		SCHEDULE OF VALUES				
ITEM NO.	DESCRIPTION	ONTY	UNIT	UNIT PRICE	TOTAL COST		
		QNTY	LS				
1	Clarifier #1 equipment replacement	1	1	\$250,000	\$250,000		
2	Clarifier #1 concrete inspection and repairs	2200	SF	\$75	\$165,000		
3	Clarifier #2 equipment replacement	1	LS	\$250,000	\$250,000		
4	Clarifier #2 concrete inspection and repairs	2500	SF	\$75	\$187,500		
5	Reshape Clarifier #2 trough and level weir	1	LS	\$90,000	\$90,000		
6					-		
7					-		
8					-		
9					-		
10					-		
11					-		
12					-		
13					-		
14					-		
15					-		
16					-		
17					-		
18					-		
19					-		
20					-		
21					-		
22					-		
23	Additional Elements (estimated % of above)				-		
24	Contractor mobilization / administration			10.0%	\$94,000		
25	Yard Piping			0.0%	\$0		
26	Site Civil			0.0%	\$0		
27	Electrical and instrumentation			30.0%	\$283,000		
28	Bonding			2.5%	\$24,000		
29							

SUBTOTAL Construction Contingency: 30.0% \$ AIS/BABAA Escalation: 15.0% \$ 403,000

262,000 Sales Tax: 7.7% \$ 155,000

TOTAL PROBABLE COST (2023 DOLLARS)

Design / CMS: 25.0% \$ 502,000 Legal and Administrative: 0.2% \$ 4,000

1,344,000

2,670,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C

PROJECT DESCRIPTION:

Pumphouse #1 repairs CLIENT:

City of Newport

P/N: 70-20-023

ITEM	70-20-023	SCHEDULE OF VALUES					
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST		
1	Replace piping and valving	1	LS	\$375,000	\$375,000		
2	Ventilation with monitoring for basement area	1	LS	\$125,000	\$125,000		
3	Excavate and seal basement walls with drainage	4500	SF	\$50	\$225,000		
4	New sump pump system (WAS line and flows from PH #2)	1	LS	\$100,000	\$100,000		
5	Replace conduits with water issues	1	LS	\$50,000	\$50,000		
6	Overhead hoist in basement	1	LS	\$175,000	\$175,000		
7	Basement extension for stairway, concrete - vertical walls	23	CY	\$1,500	\$34,500		
8	Basement extension for stairway, concrete - slab on grade	13	CY	\$1,000	\$13,000		
9	Building above basement	176	SF	\$300	\$52,800		
10	Structure excavation	320	CY	\$50	\$16,000		
11	Excavation shoring	1230	SF	\$75	\$92,250		
12	Underdrain with outlet pipe	1	LS	\$75,000	\$75,000		
13	Yard piping (as percentage of extension costs)			30%	\$85,065		
14	Electrical and Instrumentation and HVAC (as %of extension)			35%	\$99,243		
15					-		
16					-		
17					-		
18					-		
19					-		
20					-		
21					-		
22	Additional Flores to to the state of the second				-		
23	Additional Elements (estimated % of above)			40.00/	- *450.000		
24	Contractor mobilization / administration			10.0%	\$152,000		
25	Yard Piping			0.0%	\$0 \$0		
26	Site Civil			0.0%	\$0 \$0		
27	Electrical and instrumentation			0.0%	\$0		
28 29	Bonding			2.5%	\$38,000		
29	I .			1	,		

SUBTOTAL 1,708,000 512,000

Construction Contingency: 30.0% \$ AIS/BABAA Escalation: 15.0% \$ 333,000 Sales Tax: 7.7% \$ 197,000

Design / CMS: 25.0% \$ 638,000 Legal and Administrative: 0.2% \$ 5,000

TOTAL PROBABLE COST (2023 DOLLARS) 3,393,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C PROJECT DESCRIPTION:

Pumphouse #2 repairs

CLIENT:

City of Newport 70-20-023

P/N:

ITEM		SCHEDULE OF VALUES			
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Replace 8" valves RAS-AUX-WAS	2	EA	\$7,000	\$14,000
2	Ventilation for basement area	1	LS	\$135,000	\$135,000
3	Excavate and seal basement walls with drainage	7500	SF	\$50	\$375,000
4	Upgrade motor control center	1	LS	\$330,000	\$330,000
5	Repair damaged bathroom	64	SF	\$200	\$12,800
6	Overhead hoist in basement	1	LS	\$175,000	\$175,000
7	Replace sump pump	1	LS	\$12,000	\$12,000
8	Basement extension for stairway, concrete - vertical walls	23	CY	\$1,500	\$34,500
9	Basement extension for stairway, concrete - slab on grade	13	CY	\$1,000	\$13,000
10	Building above basement	176	SF	\$300	\$52,800
11	Structure excavation	320	CY	\$50	\$16,000
12	Excavation shoring	1230	SF	\$75	\$92,250
13	Underdrain with outlet pipe	1	LS	\$45,000	\$45,000
14	Yard piping (as percentage of extension costs)			30%	\$76,065
15	Electrical and Instrumentation and HVAC (as %of extension)			35%	\$88,743
16					-
17					-
18					-
19					-
20					-
21					-
22	A 186 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				-
23	Additional Elements (estimated % of above)			40.00	-
24	Contractor mobilization / administration			10.0%	\$147,000
25	Yard Piping			0.0%	\$0
26	Site Civil			0.0%	\$0
27	Electrical and instrumentation			0.0%	\$0
28	Bonding			2.5%	\$37,000
29				1	

SUBTOTAL \$ 1,656,000

Construction Contingency: 30.0% \$ AIS/BABAA Escalation: 15.0% \$ 497,000 323,000 Sales Tax: 7.7% \$ 191,000

Design / CMS: 25.0% \$ 619,000 Legal and Administrative: 0.2% \$ 5,000

TOTAL PROBABLE COST (2023 DOLLARS) 3,291,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C

PROJECT DESCRIPTION: Aerobic digester

CLIENT:

City of Newport

P/N:	70-20-023				
ITEM				HEDULE OF VALU	
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Demolish existing structure	2800	SF	\$60	\$168,000
2	Construct new building with overhead hoist	2800	SF	\$400	\$1,120,000
3	Bulding lighting	1	LS	\$100,000	\$100,000
4	Repair waste line supports in digester	1	LS	\$60,000	\$60,000
5	Replace decant pipe system	1	LS	\$150,000	\$150,000
6	Digester lift station upgrade for dual pumps on rails	1	LS	\$120,000	\$120,000
7	Replace digester center access catwalk	1	LS	\$75,000	\$75,000
8	Replace perimeter catwalk	1100	SF	\$125	\$137,500
9	Replace sump pump	1	LS	\$12,000	\$12,000
10					-
11					-
12					-
13					-
14					-
15					-
16					-
17					-
18					-
19					-
20					-
21					-
22					-
23	Additional Elements (estimated % of above)				-
24	Contractor mobilization / administration			10.0%	\$194,000
25	Yard Piping			0.0%	\$0
26	Site Civil			0.0%	\$0
27	Electrical and instrumentation			0.0%	\$0
28	Bonding			2.5%	\$49,000
29					

SUBTOTAL \$ 2,186,000 656,000

Construction Contingency: 30.0% \$ AIS/BABAA Escalation: 15.0% \$ 426,000 Sales Tax: 7.7% \$ 252,000

817,000

Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ 7,000

TOTAL PROBABLE COST (2023 DOLLARS) 4,344,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C PROJECT DESCRIPTION:

Primary Clarifier repairs

CLIENT:

City of Newport

P/N: 70-20-023

F/IN.	10-20-020						
ITEM		SCHEDULE OF VALUES					
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST		
1	Clarifier #1 equipment replacement	1	LS	\$235,000	\$235,000		
2	Clarifier #1 concrete inspection and repairs	2200	SF	\$75	\$165,000		
3	Piping/Valving inspection and repairs	1	LS	\$100,000	\$100,000		
4					-		
5					-		
6					-		
7					-		
8					-		
9					-		
10					-		
11					-		
12					-		
13					-		
14					-		
15					-		
16					-		
17 18					-		
19					-		
20					-		
21					-		
22					-		
23	Additional Elements (estimated % of above)						
24	Contractor mobilization / administration			10.0%	- \$50,000		
25	Yard Piping			0.0%	\$0,000 \$0		
26	Site Civil			0.0%	\$0		
27	Electrical and instrumentation			30.0%	\$150,000		
28	Bonding			2.5%	\$13,000		
29				,	÷ : 2,000		

SUBTOTAL 713,000 214,000

Construction Contingency: 30.0% \$ AIS/BABAA Escalation: 15.0% \$ 139,000

Sales Tax: 7.7% \$ 82,000 Design / CMS: 25.0% \$ 267,000

1,417,000

Legal and Administrative: 0.2% \$ 2,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C

PROJECT DESCRIPTION: Anaerobic digester repairs

CLIENT:

City of Newport

P/N: 70-20-023

ITEM		SCHEDULE OF VALUES				
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST	
1	Digester excavation and cleaning	1	LS	\$80,000	\$80,000	
2	Digester equipment replacement	1	LS	\$350,000	\$350,000	
3	Digester concrete inspection and repairs	2200	SF	\$85	\$187,000	
4	Piping/Valving inspection and repairs	1	LS	\$150,000	\$150,000	
5					-	
6					-	
7					-	
8					-	
9 10					-	
10					-	
12					-	
13					_	
14						
15					_	
16					_	
17					-	
18					-	
19					-	
20					-	
21					-	
22					-	
23	Additional Elements (estimated % of above)			,	-	
24	Contractor mobilization / administration			10.0%	\$77,000	
25	Yard Piping			0.0%	\$0 \$0	
26	Site Civil			0.0%	\$0	
27	Electrical and instrumentation			30.0%	\$230,000	
28 29	Bonding			2.5%	\$19,000	

SUBTOTAL 1,093,000

2,172,000

Construction Contingency: 30.0% \$ AIS/BABAA Escalation: 15.0% \$ 328,000 213,000 Sales Tax: 7.7% \$ 126,000

Design / CMS: 25.0% \$ 409,000

Legal and Administrative: 0.2% \$ 3,000 TOTAL PROBABLE COST (2023 DOLLARS)

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C PROJECT DESCRIPTION:

Primary solids pump station rehabilitation

CLIENT:

City of Newport

P/N: 70-20-023

ITEM	10 20 020		SCH	HEDULE OF VALU	JES
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Pump station interior concrete repairs and cleaning	240	SF	\$500	\$120,000
2	Pump station piping valving replacement	1	LS	\$400,000	\$400,000
3					-
4					-
5					-
6					-
7					-
8					-
9					-
10					-
11					-
12					-
13					-
14					-
15 16					-
17					-
18]
19					
20					_
21					_
22					-
23	Additional Elements (estimated % of above)				-
24	Contractor mobilization / administration			10.0%	\$52,000
25	Yard Piping			0.0%	\$0
26	Site Civil			0.0%	\$0
27	Electrical and instrumentation			40.0%	\$208,000
28	Bonding			2.5%	\$13,000
29					

SUBTOTAL \$ 793,000

 Construction Contingency: 30.0%
 \$ 238,000

 AIS/BABAA Escalation: 15.0%
 \$ 155,000

 Sales Tax: 7.7%
 \$ 91,000

Design / CMS: 25.0% \$ 297,000

Legal and Administrative: 0.2% \$ 2,000

Planning

PROJECT: DATE: May 26,2023

City of Newport WWTP Alternative C PROJECT DESCRIPTION:

New Shop/Office/Lab

CLIENT:

City of Newport

P/N: 70-20-023

ITEM	T0-20-023	SCHEDULE OF VALUES					
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST		
1	Clearing and grubbing	0.69	ACRE	\$12,000	\$8,280		
2	Site excavation	14400	CY	\$20	\$288,000		
3	Steel shop/lab/office building, 50'X100'	5000	SF	\$250	\$1,250,000		
4	Finish office/lab space, 30'X50'	1500	SF	\$300	\$450,000		
5	Extend 8" water line to shop	250	LF	\$110	\$27,500		
6	Fire hydrant	1	LS	\$8,000	\$8,000		
7	Extend sewer line to shop/office/lab	200	LF	\$90	\$18,000		
8	Crushed surfacing top course for driveway	620	TONS	\$50	\$31,000		
9	Hot mix asphalt for driveway	400	TONS	\$180	\$72,000		
10					-		
11					-		
12					-		
13					-		
14					-		
15					-		
16					-		
17					-		
18					-		
19					-		
20					-		
21 22					-		
22	Additional Elements (estimated % of above)				-		
23 24	Contractor mobilization / administration			10.0%	- \$215,000		
25	Yard Piping			0.0%	\$215,000 \$0		
26	Site Civil			0.0%	\$0 \$0		
27	Electrical and instrumentation			0.0%	\$0 \$0		
28	Bonding			2.5%	\$54,000		
29	Donaing			2.570	ψυ,000		

SUBTOTAL \$ 2,422,000 727,000

Construction Contingency: 30.0% \$ AIS/BABAA Escalation: 15.0% \$ 472,000 Sales Tax: 7.7% \$ 279,000

Design / CMS: 25.0% \$ 905,000 Legal and Administrative: 0.2% \$ 7,000

TOTAL PROBABLE COST (2023 DOLLARS) 4,812,000

Operation and Maintenance Annual Cost Estimate

City of Newport WWTP

Alternate C: Restore Primary Processes and Implement Repairs and Upgrades

	Estimated	Estimated									
	Weekly Labor	Annual Labor			Equipment	Electrical	Chemical				
Description	Hours	Hours	Labor Rate	Labor Cost	Cost	Cost	Cost	Othe	er	Tota	d
Clerical/Administration	3	156	\$ 53	\$ 8,268	\$ 1,000					\$	9,268
Influent Flow Meters	8	416	\$ 53	\$ 22,048	\$ 2,500					\$	24,548
Receiving Station (offline)	1	52	\$ 53	\$ 2,756	\$ -					\$	2,756
Headworks-Bar Rack	2	104	\$ 53	\$ 5,512	\$ 300					\$	5,812
Headworks-Mechanical Fine Screen	2	104	\$ 53	\$ 5,512	\$ 12,500					\$	18,012
Headworks-Vortex Grit Chamber	2	104	\$ 53	\$ 5,512	\$ 6,500					\$	12,012
NEW Primary Clarifier	8	416	\$ 53	\$ 22,048	\$ 7,000					\$	29,048
Aeration Basin-Oxidation Ditch	8	416	\$ 53	\$ 22,048	\$ 7,500					\$	29,548
Secondary Clarifier 1	8	416	\$ 53	\$ 22,048	\$ 7,000					\$	29,048
Secondary Clarifier 2	8	416	\$ 53	\$ 22,048	\$ 7,000					\$	29,048
Chlorine Contact Basin, Injection Equipment	2	104	\$ 53	\$ 5,512	\$ 2,000		\$ 2,800			\$	10,312
Outfall to Pend Oreille River	1	52	\$ 53	\$ 2,756	\$ -					\$	2,756
NEW Primary Solids Pumps	8	416	\$ 53	\$ 22,048	\$ 12,000					\$	34,048
NEW Anaerobic Digester	8	416	\$ 53	\$ 22,048	\$ 15,000					\$	37,048
Activated Sludge Pump Station 1	8	416	\$ 53	\$ 22,048	\$ 12,000					\$	34,048
Activated Sludge Pump Station 2, Reclaim Water Pump	10	520	\$ 53	\$ 27,560	\$ 15,000					\$	42,560
Aerobic Digester (Solids Holding Lagoon)	4	208	\$ 53	\$ 11,024	\$ 10,000					\$	21,024
Belt Filter Press, Gravity Belt Thickener	8	416	\$ 53	\$ 22,048	\$ 7,000		\$ 6,500			\$	35,548
Site Maintenance and Upkeep	2	104	\$ 53	\$ 5,512	\$ 1,000					\$	6,512
Reclaimed Water Distribution System	3	156	\$ 53	\$ 8,268	\$ 3,500					\$	11,768
Plant Power, Lighting, Heating						\$ 60,000				\$	60,000
Water Utilities								\$	20,000	\$	20,000
Outside Lab Costs								\$	7,000	\$	7,000
Sludge Hauling Service								\$	31,000	\$	31,000
DOE Permits								\$	6,500	\$	6,500
Office and Operating Supplies								\$	30,000	\$	30,000
Fuel Consumed								\$	11,000	\$	11,000
TOTAL	104	5408		\$ 286,624	\$ 128,800	\$ 60,000	\$ 9,300	\$	105,500	\$	590,224

Newport WWTP Summary Alternative D Detailed Costs

Pg. #	Item Description	Cons	truction Cost	Conti Engin	Cost with ngency, Taxes, leering, Prevailing es/AIS, Admin
2	Overall Site Improvements	\$	3,440,000	\$	6,835,000
3	Headworks Improvements	\$	1,739,000	\$	3,455,000
4	Lab Office Upgrades/Renovation	\$	1,180,000	\$	2,345,000
5	Belt Filter Press Upgrades	\$	964,000	\$	1,915,000
6	Existing Oxidation Ditch Upgrades	\$	1,310,000	\$	2,603,000
7	New Oxidation Ditch	\$	1,907,000	\$	3,790,000
8	Clarifier Repairs	\$	1,344,000	\$	2,670,000
9	New Clarifier #3	\$	2,168,000	\$	4,307,000
10	Pumphouse #1 Upgrades	\$	1,708,000	\$	3,393,000
11	Pumphouse #2 Upgrades	\$	1,656,000	\$	3,291,000
12	UV Disinfection	\$	2,062,000	\$	4,097,000
13	Aerobic Digester	\$	2,186,000	\$	4,344,000
	TOTAL	\$	21,664,000	\$	43,045,000
14	New Shop/Office (alternate to renovation)	\$	2,422,000	\$	4,812,000
	TOTAL with New Shop/Office, no existing upgrades	\$	22,906,000	\$	45,512,000

Planning

6,835,000

671,000 396,000 1,286,000 10,000

AIS/BABAA Escalation:15.0% \$
Sales Tax: 7.7% \$
Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$

TOTAL PROBABLE COST (2023 DOLLARS) \$

3/26/2023

DATE:

PROJECT:

City of Newport WWTP Alternative D

PROJECT DESCRIPTION:

Overall Site Improvements

CLIENT:

City of Newport

P/N:	70-20-023

ITEM			SCHEDULE OF VALUES		
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Clearing & Grubbing	2.50	AC	\$18,000	\$45,000
2	Retaining Wall Repairs	200	SF	\$40	\$8,000
3	Chain link fence removal and replacement	2100	LF	\$80	\$168,000
4	Fence retaining wall	2000	SF	\$100	\$200,000
5	Sidewalk and steps	61	CY	\$1,500	\$91,667
6	Onsite Domestic Fire Hydrant	1	LS	\$15,000	\$15,000
7	Replace fire extinguisher boxes	20	EA	\$250	\$5,000
8	SCADA system with security cameras	1	LS	\$275,000	\$275,000
9	Electrical upgrades throughout plant	1	LS	\$500,000	\$500,000
10	Combine power sources into one	1	LS	\$200,000	\$200,000
11	Yard valve replacement throughout plant	20	EA	\$5,000	\$100,000
12	Reclaimed water system replacement and filtration system	1	LS	\$350,000	\$350,000
13	Backup generator	1	LS	\$400,000	\$400,000
14	Vactor truck	1	LS	\$600,000	\$600,000
15	Mothball existing primary clarifier	1	LS	\$100,000	\$100,000
16					-
17					-
18					-
19					-
20					-
21					-
22					-
23	Additional Elements (estimated % of above)				-
24	Contractor mobilization / administration			10.0%	\$306,000
25	Yard Piping			0.0%	\$0
26	Site Civil			0.0%	\$0
27	Electrical and instrumentation			0.0%	\$0
28	Bonding			2.5%	\$76,000
29				ALIDTOT::	
				SUBTOTAL	
Construction Contingency: 30.0%				ontingency: 30.0%	\$ 1,032,000

Planning

PROJECT: DATE: 3/26/2023

Newport Wastewater Treatment Facility

PROJECT DESCRIPTION:

Headworks: Screening, furnace replacement, move MCC room

CLIENT:

City of Newport

P/N:	70-20-023

ITEM			SCHEDULE OF VALUES		
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Channel repairs				
2	Reshape bar grate channel for composite sampler	1	LS	\$12,000	\$12,000
3	Replace gates and rails	1	LS	\$20,000	\$20,000
4	Bypass pumping for channel repairs	1	LS	\$5,000	\$5,000
5	<u>Fine Screening</u>				-
6	2 mgd fine screen	1	EA	\$175,000	\$175,000
7	Installation at 20%	1	EA	\$35,000	\$35,000
8	Electrical revisions for independent screen operation	1	LS	\$100,000	\$100,000
9	Replace heating system	1	LS	\$75,000	\$75,000
10	Relocate MCC Room				
11	Demolish existing MCC room	140	SF	\$750	\$105,000
12	Construct Rollup Door in current MCC room location	1	LS	\$8,000	\$8,000
13	Construct MCC Addition	450	SF	\$600	\$270,000
14	Grit Removal				
15	Replace existing grit pump	1	EA	\$20,000	\$20,000
16	Installation at 15%	1	EA	\$3,000	\$3,000
17	Replace/support grit chamber piping	1	LS	\$15,000	\$15,000
18	Traveling bridge crane 4000 lbs, free standing, with hoist	1	LS	\$175,000	\$175,000
19	Odor Control				
20	Odor control for venting, carbon filtration, retrofit	1	LS	\$5,700	\$5,700
21	Cover channels with mats	1	LS	\$5,000	\$5,000
22	Air gap skid system	1	LS	\$150,000	\$150,000
23					
24	Additional Elements (estimated % of above)				
25	Contractor mobilization / administration			10.0%	\$118,000
26	Yard Piping			0.0%	\$0
27	Site Civil			5.0%	\$59,000
28	Electrical and instrumentation			30.0%	\$354,000
29	Bonding			2.5%	\$29,000
30					, ,
				SUBTOTAL	\$ 1,739,000

Construction Contingency: 30.0% \$ 522,000
AIS/BABAA Escalation:15.0% \$ 339,000
Sales Tax: 7.7% \$ 200,000
Design / CMS: 25.0% \$ 650,000
Legal and Administrative: 0.2% \$ 5,000

TOTAL PROBABLE COST (2023 DOLLARS) \$ 3,455,000

Planning

2,345,000

3/26/2023

DATE:

PROJECT: City of Newport WWTP Alternative D PROJECT DESCRIPTION:

Lab/Office Renovation

CLIENT:

City of Newport

P/N:	70-20-023

ITEM	70-20-023	SCHEDULE OF VALUES				
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	T	OTAL COST
1	Demolition for office/break room addition	576	SF	\$150		\$86,400
2	Office/break room addition	576	SF	\$600		\$345,600
3	Roof replacement over entire structure	1568	SF	\$40		\$62,720
4	New flooring, countertops, cubboards in lab area	1	LS	\$60,000		\$60,000
5	Extend bathroom into old chlorine room and add shower/sink	128	SF	\$350		\$44,800
6	Remove all unused electrical panels, bring up to code	1	LS	\$200,000		\$200,000
7						-
8						-
9						-
10						-
11						-
12						-
13						-
14						-
15						-
16						-
17						-
18						-
19						-
20 21						-
22						-
23	Additional Elements (estimated % of above)					-
23 24	Contractor mobilization / administration			10.0%		\$80,000
24 25	Yard Piping			0.0%		\$60,000 \$0
26	Site Civil			5.0%		\$40,000
27	Electrical and instrumentation			30.0%		\$240,000
28	Bonding			2.5%		\$20,000
29	Bonding			2.570		Ψ20,000
	I	<u> </u>		SUBTOTAL	\$	1,180,000
Construction Contingency: 30.0%					\$	354,000
AIS/BABAA Escalation: 15.0%					\$	230,000
Sales Tax: 7.7%					136,000	
Design / CMS: 25.0%					441,000	
•					4,000	
	TOTAL BBO			OO BOLL ABOV		

Planning

PROJECT: DATE: 3/26/2023

City of Newport WWTP Alternative D

PROJECT DESCRIPTION:

Belt filter press building renovations (upgrades to support systems, refurbishing existing)

CLIENT:

City of Newport 70-20-023

P/N:

ITEM		SCHEDULE OF VALUES			
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Replace heaters	8	EA	\$4,000	\$32,000
2	Replace lights	11	EA	\$1,000	\$11,000
3	Traveling bridge crane and hoist	1	LS	\$180,000	\$180,000
4	1200 gallon pressure tank	1	LS	\$20,000	\$20,000
5	Rebuild thickener system	1	LS	\$150,000	\$150,000
6	Fix floor drains	1	LS	\$3,000	\$3,000
7	Upgrade shower boxes on gravity and press section	1	LS	\$80,000	\$80,000
8	Domestic water feed line	1	LS	\$20,000	\$20,000
9	Air gap skid system	1	LS	\$150,000	\$150,000
10	Repair wall around conveyor system	1	LS	\$6,000	\$6,000
11	Upgrade lift station with new pumps and full rails	1	LS	\$75,000	\$75,000
12	Sludge trailer	1	LS	\$130,000	\$130,000
13					-
14					-
15					-
16					-
17					-
18					-
19					-
20					-
21					-
22					-
23	Additional Elements (estimated % of above)				-
24	Contractor mobilization / administration			10.0%	\$86,000
25	Yard Piping			0.0%	\$0
26	Site Civil			0.0%	\$0
27	Electrical and instrumentation			0.0%	\$0
28	Bonding			2.5%	\$21,000
29					

SUBTOTAL 964,000

onstruction Contingency: 30.0% \$
AIS/BABAA Escalation:15.0% \$
Sales Tax: 7.7% \$
Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ 289,000 Construction Contingency: 30.0% 188,000

111,000 360,000 Legal and Administrative: 0.2% 3,000

TOTAL PROBABLE COST (2023 DOLLARS) \$

1,915,000

Planning

3/26/2023

DATE:

PROJECT: City of Newport WWTP Alternative D

PROJECT DESCRIPTION:

Oxidation ditch upgrades for existing ditch

CLIENT:

City of Newport

P/N:	70-20-023

ITEM		SCHEDULE OF VALUES			
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Upgrade drive, gear box, paddle system	1	LS	\$175,000	\$175,000
2	Replace building over drive system	100	SF	\$250	\$25,000
3	New control panel with VFD for drive system w/DO control	1	LS	\$125,000	\$125,000
4	Replace grating on influent distribution box	80	SF	\$120	\$9,600
5	Repair outflow distribution box	1	LS	\$300,000	\$300,000
6	Replace sprayer system	1	LS	\$30,000	\$30,000
	Divert flow from ditch, drain, clean, inspect, rehabilitation (spot				
7	repairs, 6" concrete veneer, coatings at scum line)	1	LS	\$500,000	\$500,000
8					-
9					-
10					-
11					-
12					-
13					-
14					-
15					-
16					-
17					-
18					-
19					-
20					-
21					-
22	Additional Elements (estimated % of above)				-
23	Contractor mobilization / administration			10.0%	\$116,000
24	Yard Piping			0.0%	\$0
25	Site Civil			0.0%	\$0
26	Electrical and instrumentation			0.0%	\$0
27	Bonding			2.5%	\$29,000
28				CUDTOTAL	4 040 000
				SUBTOTAL	\$ 1.310.000

393,000

construction Contingency: 30.0% \$
AIS/BABAA Escalation:15.0% \$
Sales Tax: 7.7% \$
Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ Construction Contingency: 30.0%

151,000 490,000 4,000

TOTAL PROBABLE COST (2023 DOLLARS) \$

255,000

Planning

3,790,000

PROJECT: DATE: 3/26/2023

City of Newport WWTP Alternative D PROJECT DESCRIPTION:

New oxidation ditch

CLIENT:

CLIENT	CLIENT:						
	City of Newport						
P/N: ITEM	70-20-023		001	IEDIII E OE VALU	FC		
NO.	DESCRIPTION	QNTY	SCHEDULE OF VALUES QNTY UNIT UNIT PRICE TOTAL OF				
1	Clearing and Grubbing	1	LS	\$25,000	**TOTAL COST \$25,000		
2	Site excavation	4167	CY	\$25,000	\$25,000 \$166,667		
3		2000	SF	\$75	\$150,007 \$150,000		
4	Temporary shoring along property line 14" piping distribution box to oxidation ditch inlet	50	LF	\$200	\$150,000 \$10,000		
5	14" pipe fittings	6	EA	\$3,500	\$10,000		
6	''	250	LF	\$180	\$45,000 \$45,000		
7	12" pipe from ditch outlet to new clarifier	8	EA	\$3,000	\$24,000		
8	Fittings for 12" pipe to new clarifier	1000	LF	\$3,000	\$30,000		
9	Drain piping (4") under ditch	50	LI	\$100 \$100	\$5,000		
10	Drain outlet pipe (6") Drain rock under ditch	333	CY	\$75	\$25,000 \$25,000		
11	Underdrain Fabric	18000	SF	\$0.25	\$4,500 \$4,500		
12	Backflow prevention valves for 4" drain lines	3	EA	\$1,000	\$3,000		
13	Concrete - vertical walls	200	CY	\$1,000	\$240,000		
14	Concrete - Vertical Walls Concrete - Slab on grade	320	CY	\$800	\$256,000		
15	Concrete - Elevated slab	40	CY	\$2,500	\$100,000		
16	Mixing/aeration system	1	LS	\$150,000	\$150,000 \$150,000		
17	Building over mixing/aeration system	100	SF	\$250	\$25,000		
18	Control panel with VFD for mixing system w/DO control	1 100	LS	\$125,000	\$125,000		
19	Electrical wiring to new ditch		LS	\$250,000	\$250,000		
20	New sprayer system		LS	\$40,000	\$40,000		
21	l sprayer system	'		Ψ40,000	Ψ40,000		
22							
23	Additional Elements (estimated % of above)						
24	Contractor mobilization / administration			10.0%	\$170,000		
25	Yard Piping			0.0%	\$0		
26	Site Civil			0.0%	\$0 \$0		
27	Electrical and instrumentation			0.0%	\$0 \$0		
28	Bonding			2.5%	\$42,000		
29	Bonding			2.070	Ψ42,000		
	1	<u> </u>		SUBTOTAL	\$ 1,907,000		
Construction Contingency: 30.0%					\$ 572,000		
AIS/BABAA Escalation:15.0%					\$ 372,000		
Sales Tax: 7.7%					\$ 220,000		
Design / CMS: 25.0%					\$ 713,000		
		Leç		0	\$ 6,000		

TOTAL PROBABLE COST (2023 DOLLARS) \$

Planning

3/26/2023

DATE:

PROJECT: City of Newport WWTP Alternative D PROJECT DESCRIPTION:

Clarifier repairs

CLIENT:

CLIEN							
P/N:	City of Newport 70-20-023						
ITEM	10-20-023		SCHEDULE OF VALUES				
NO.	DESCRIPTION		QNTY	UNIT	UNIT PRICE	TOTAL COST	
1	Clarifier #1 equipment replacement		1	LS	\$250,000	\$250,000	
2	Clarifier #1 concrete inspection and repairs		2200	SF	\$75	\$165,000	
3	Clarifier #2 equipment replacement		1	LS	\$250,000	\$250,000	
4	Clarifier #2 concrete inspection and repairs		2500	SF	\$75	\$187,500	
5	Reshape Clarifier #2 trough and level weir		1	LS	\$90,000	\$90,000	
6	The shape Clarifier #2 flought and level well		'	[ψ50,000	Ψ30,000	
7						_	
8						_	
9						_	
10						_	
11						_	
12						_	
13						_	
14						_	
15						_	
16						_	
17						_	
18						_	
19						_	
20						_	
21						_	
22						_	
23	Additional Elements (estimated % of above)					_	
24	Contractor mobilization / administration				10.0%	\$94,000	
25	Yard Piping				0.0%	\$0	
26	Site Civil				0.0%	\$0	
27	Electrical and instrumentation				30.0%	\$283,000	
28	Bonding				2.5%	\$24,000	
29					,	Ψ= .,σσσ	
	•				SUBTOTAL	\$ 1,344,000	
	Construction Contingency: 30.0%					\$ 403,000	
AIS/BABAA Escalation:15.0%					\$ 262,000		
Sales Tax: 7.7%					\$ 155,000		
				Des	sign / CMS: 25.0%	\$ 502,000	
	Legal and Administrative: 0.2%						
		TOTAL PROB			23 DOLLARS)	\$ 2,670,000	

Planning

PROJECT: DATE: 3/26/2023

City of Newport WWTP Alternative D
PROJECT DESCRIPTION:

New Clarifier #3

CLIENT:

	City of Newport						
P/N:							
ITEM	DESCRIPTION				HEDULE OF VALU		
NO.	DESCRIPTION		QNTY	UNIT	UNIT PRICE	TOTAL COST	
1	Concrete - Vertical Walls		76	CY	\$1,500	\$114,000	
2	Concrete - Slab on Grade		81	CY	\$1,000	\$81,000	
3	Concrete - Weir Channel		15	CY	\$2,200	\$33,000	
4	Appurtenant Mechanical Equipment		1	LS	\$325,000	\$325,000	
5	Hand Rail		130	LF	\$250	\$32,500	
6	Structure Excavation		1680	CY	\$50	\$84,000	
7	Excavation Shoring		3020	SF	\$75	\$226,500	
8	Excavation Dewatering		1	LS	\$75,000	\$75,000	
9	Underdrain with outlet pipe		1	LS	\$50,000	\$50,000	
10	Yard Piping				10.00%	\$102,100	
11	Valving in Pumphouse #2		1	LS	\$450,000	\$450,000	
12	Chlorination upgrades		1	LS	\$150,000	\$150,000	
13	Electrical and Instrumentation				20.00%	\$204,200	
14						-	
15						-	
16						-	
17						-	
18						-	
19						-	
20						-	
21						-	
22						-	
23						-	
24	Additional Elements (estimated % of above)					-	
25	Contractor mobilization / administration				10.0%	\$193,000	
26	Yard Piping				0.0%	\$0	
27	Site Civil				0.0%	\$0	
28	Electrical and instrumentation				0.0%	\$0	
29	Bonding				2.5%	\$48,000	
30	, and the second					, ,,,,,,,,	
	Į.			ı	SUBTOTAL	\$ 2,168,000	
Construction Contingency: 30.0%					\$ 650,000		
AIS/BABAA Escalation:15.0%					\$ 423,000		
Sales Tax: 7.7%					\$ 250,000		
Design / CMS: 25.0%						\$ 810,000	
Legal and Administrative: 0.2%						\$ 6,000	
		TOTAL PRO			23 DOLLARS)	\$ 4,307,000	
	101711 (1017) 1100					1,001,000	

Planning

3,393,000

3/26/2023

DATE:

PROJECT:

City of Newport WWTP Alternative D

PROJECT DESCRIPTION:

Pumphouse #1 repairs

CLIENT:

City of Newport

P/N:	70-20-023

P/N:	70-20-023					
ITEM				HEDULE OF VALU		
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TC	OTAL COST
1	Replace piping and valving	1	LS	\$375,000		\$375,000
2	Ventilation with monitoring for basement area	1	LS	\$125,000		\$125,000
3	Excavate and seal basement walls with drainage	4500	SF	\$50		\$225,000
4	New sump pump system (WAS line and flows from PH #2)	1	LS	\$100,000		\$100,000
5	Replace conduits with water issues	1	LS	\$50,000		\$50,000
6	Overhead hoist in basement	1	LS	\$175,000		\$175,000
7	Basement extension for stairway, concrete - vertical walls	23	CY	\$1,500		\$34,500
8	Basement extension for stairway, concrete - slab on grade	13	CY	\$1,000		\$13,000
9	Building above basement	176	SF	\$300		\$52,800
10	Structure excavation	320	CY	\$50		\$16,000
11	Excavation shoring	1230	SF	\$75		\$92,250
12	Underdrain with outlet pipe	1	LS	\$75,000		\$75,000
13	Yard piping (as percentage of extension costs)			30%		\$85,065
14	Electrical and Instrumentation and HVAC (as %of extension)			35%		\$99,243
15	, , ,					-
16						-
17						-
18						-
19						-
20						-
21						-
22						-
23	Additional Elements (estimated % of above)					-
24	Contractor mobilization / administration			10.0%		\$152,000
25	Yard Piping			0.0%		\$0
26	Site Civil			0.0%		\$0
27	Electrical and instrumentation			0.0%		\$0
28	Bonding			2.5%		\$38,000
29						, ,
				SUBTOTAL	\$	1,708,000
Construction Contingency: 30.0%					\$	512,000
AIS/BABAA Escalation:15.0%					\$	333,000
Sales Tax: 7.7%					\$	197,000
			Des	sign / CMS: 25.0%	\$	638,000
		Leo		ministrative: 0.2%	\$	5,000
TOTAL PROBABLE COST (2023 DOLLARS)						2 202 000

TOTAL PROBABLE COST (2023 DOLLARS) \$

Planning

619,000 5,000

3,291,000

3/26/2023

DATE:

Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$

TOTAL PROBABLE COST (2023 DOLLARS) \$

PROJECT:

City of Newport WWTP Alternative D

PROJECT DESCRIPTION:

Pumphouse #2 repairs

CLIENT:

City of Newport

>/N·	70-20-023

P/N:	70-20-023				
ITEM			SCI	HEDULE OF VALU	IES
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Replace 8" valves RAS-AUX-WAS	2	EA	\$7,000	\$14,000
2	Ventilation for basement area	1	LS	\$135,000	\$135,000
3	Excavate and seal basement walls with drainage	7500	SF	\$50	\$375,000
4	Upgrade motor control center	1	LS	\$330,000	\$330,000
5	Repair damaged bathroom	64	SF	\$200	\$12,800
6	Overhead hoist in basement	1	LS	\$175,000	\$175,000
7	Replace sump pump	1	LS	\$12,000	\$12,000
8	Basement extension for stairway, concrete - vertical walls	23	CY	\$1,500	\$34,500
9	Basement extension for stairway, concrete - slab on grade	13	CY	\$1,000	\$13,000
10	Building above basement	176	SF	\$300	\$52,800
11	Structure excavation	320	CY	\$50	\$16,000
12	Excavation shoring	1230	SF	\$75	\$92,250
13	Underdrain with outlet pipe	1	LS	\$45,000	\$45,000
14	Yard piping (as percentage of extension costs)			30%	\$76,065
15	Electrical and Instrumentation and HVAC (as %of extension)			35%	\$88,743
16					-
17					-
18					-
19					-
20					-
21					-
22					-
23	Additional Elements (estimated % of above)				-
24	Contractor mobilization / administration			10.0%	\$147,000
25	Yard Piping			0.0%	\$0
26	Site Civil			0.0%	\$0
27	Electrical and instrumentation			0.0%	\$0
28	Bonding			2.5%	\$37,000
29					
SUBTOTAL					· · · · · · · · · · · · · · · · · · ·
Construction Contingency: 30.0%					
		Al	S/BABAA	Escalation:15.0%	\$ 323,000
Sales Tax: 7.7%					\$ 191,000

Planning

4,097,000

TOTAL PROBABLE COST (2023 DOLLARS) \$

3/26/2023

DATE:

PROJECT: City of Newport WWTP Alternative D

PROJECT DESCRIPTION:

New UV Disinfection, 30'X20' inside basement

CLIENT:

City of Newport

P/N:	70-20-023

P/N:	70-20-023					
ITEM					HEDULE OF VALU	
NO.	DESCRIPTION		QNTY	UNIT	UNIT PRICE	TOTAL COST
Ι.				0),	4.500	+005 500
1	Concrete - Vertical Walls Basement		217	CY	\$1,500	\$325,500
2	Concrete - Slab on Grade Basement		26	CY	\$1,000	\$26,000
3	Concrete - Top Slab Basement		24	CY	\$2,500	\$60,000
4	UV Equipment, 1 Channel, 4 Modules		1	LS	\$400,000 20.00%	\$400,000
5	Markup on UV Equipment		00	SF	l	\$80,000
6 7	Stairs Building above basement		90	SF SF	\$200 \$300	\$18,000 \$211,200
8	Structure Excavation		704	CY		' '
9	Excavation Shoring		400	SF	\$50 \$75	\$20,000 \$88,500
10	Excavation Dewatering		1180	LS	\$15,000	\$15,000
11	Underdrain with outlet pipe		1 1	LS	\$20,000	\$20,000
12	Yard Piping		ı	LS	10.00%	\$20,000 \$126,400
13	Electrical and Instrumentation and HVAC				35.00%	\$442,500
14	Liectifical and institutionalid invito				33.00 /0	Ψ442,300
15						
16						
17						
18						
19						_
20						_
21						-
22						-
23	Additional Elements (estimated % of above)					
24	Contractor mobilization / administration				10.0%	\$183,000
25	Yard Piping				0.0%	\$0
26	Site Civil				0.0%	\$0
27	Electrical and instrumentation				0.0%	\$0
28	Bonding				2.5%	\$46,000
29	-					
SUBTOTAL					7:: 7:::	
	5 ,					
AIS/BABAA Escalation:15.0%						
Design / CMS: 25.0%						
					ministrative: 0.2%	
	TOTAL DECRARIE COST (2023 DOLLARS)					

Planning

3/26/2023

4,344,000

DATE:

PROJECT: City of Newport WWTP Alternative D PROJECT DESCRIPTION:

Aerobic digester

CLIENT:

P/N:	City of Newport 70-20-023						
ITEM	10 20 020		SCHEDULE OF VALUES				
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST		
1	Demolish existing structure	2800	SF	\$60	\$168,000		
2	Construct new building with overhead hoist	2800	SF	\$400	\$1,120,000		
3	Bulding lighting	1	LS	\$100,000	\$100,000		
4	Repair waste line supports in digester	1	LS	\$60,000	\$60,000		
5	Replace decant pipe system	1	LS	\$150,000	\$150,000		
6	Digester lift station upgrade for dual pumps on rails	1	LS	\$120,000	\$120,000		
7	Replace digester center access catwalk	1	LS	\$75,000	\$75,000		
8	Replace perimeter catwalk	1100	SF	\$125	\$137,500		
9	Replace sump pump	1	LS	\$12,000	\$12,000		
10					-		
11					-		
12					-		
13					-		
14					-		
15					-		
16					-		
17					-		
18					-		
19					-		
20					-		
21					-		
22					-		
23	Additional Elements (estimated % of above)				-		
24	Contractor mobilization / administration			10.0%	\$194,000		
25	Yard Piping			0.0%	\$0		
26	Site Civil			0.0%	\$0		
27	Electrical and instrumentation			0.0%	\$0		
28	Bonding			2.5%	\$49,000		
29							
				SUBTOTAL	\$ 2,186,000		
Construction Contingency: 30.0%					\$ 656,000		
AIS/BABAA Escalation:15.0%					\$ 426,000		
				Sales Tax: 7.7%	\$ 252,000		
Design / CMS: 25.0%							
Legal and Administrative: 0.2%					\$ 7,000		

TOTAL PROBABLE COST (2023 DOLLARS) \$

Planning

3/26/2023

DATE:

PROJECT:

City of Newport WWTP Alternative D

PROJECT DESCRIPTION:

New Shop/Office/Lab

CLIENT:

City of Newport

P/N:	70-20-023

ITEM	10-20-020		SCHEDULE OF VALUES			
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST	
1	Clearing and grubbing	0.69	ACRE	\$12,000	\$8,280	
2	Site excavation	14400	CY	\$20	\$288,000	
3	Steel shop/lab/office building, 50'X100'	5000	SF	\$250	\$1,250,000	
4	Finish office/lab space, 30'X50'	1500	SF	\$300	\$450,000	
5	Extend 8" water line to shop	250	LF	\$110	\$27,500	
6	Fire hydrant	1	LS	\$8,000	\$8,000	
7	Extend sewer line to shop/office/lab	200	LF	\$90	\$18,000	
8	Crushed surfacing top course for driveway	620	TONS	\$50	\$31,000	
9	Hot mix asphalt for driveway	400	TONS	\$180	\$72,000	
10					-	
11					-	
12					-	
13					-	
14					-	
15					-	
16					-	
17					-	
18					-	
19					-	
20					-	
21					-	
22					-	
23	Additional Elements (estimated % of above)				-	
24	Contractor mobilization / administration			10.0%	\$215,000	
25	Yard Piping			0.0%	\$0	
26	Site Civil			0.0%	\$0	
27	Electrical and instrumentation			0.0%	\$0	
28	Bonding			2.5%	\$54,000	
29						
				SUBTOTAL	\$ 2,422,000	
		_				

Construction Contingency: 30.0% \$ 727,000

AIS/BABAA Escalation:15.0% \$ 472,000

Sales Tax: 7.7% \$ 279,000

Design / CMS: 25.0% \$ 905,000

Legal and Administrative: 0.2% \$ 7,000

Legal and Administrative: 0.2% \$ 7,000

TOTAL PROBABLE COST (2023 DOLLARS) \$ 4,812,000

Operation and Maintenance Annual Cost Estimate

City of Newport WWTP

Alternate 4: Fully Convert to Secondary Treatment and Implement Extensive Repairs and Upgrades

	Estimated	Estimated									
	Weekly Labor				Equipment	Electrical	Chemical				
Description	Hours	Hours		Labor Cost	Cost	Cost	Cost	Oth	er	Tota	ı
Clerical/Administration	3	156	\$ 53	\$ 8,268	\$ 1,000					\$	9,268
Influent Flow Meters	8	416	\$ 53	\$ 22,048	· · ·					\$	24,548
Receiving Station (offline)	1	52	\$ 53	\$ 2,756						\$	2,756
Headworks-Bar Rack	2	104	\$ 53	\$ 5,512	\$ 300					\$	5,812
Headworks-Mechanical Fine Screen	2	104	\$ 53	\$ 5,512	\$ 12,500					\$	18,012
Headworks-Vortex Grit Chamber	2	104	\$ 53	\$ 5,512	\$ 6,500					\$	12,012
Primary Clarifier (offline)	1	52	\$ 53	\$ 2,756	\$ -					\$	2,756
Aeration Basin-Oxidation Ditch #1	8	416	\$ 53	\$ 22,048	\$ 7,500					\$	29,548
NEW Aeration Basin-Oxidation Ditch #2	8	416	\$ 53	\$ 22,048	\$ 7,500					\$	29,548
Secondary Clarifier 1	8	416	\$ 53	\$ 22,048	\$ 7,000					\$	29,048
Secondary Clarifier 2	8	416	\$ 53	\$ 22,048	\$ 7,000					\$	29,048
NEW Secondary Clarifier 3	8	416	\$ 53	\$ 22,048	\$ 7,000					\$	29,048
Chlorine Contact Basin, Injection Equipment	2	104	\$ 53	\$ 5,512	\$ 2,000		\$ 2,800			\$	10,312
Outfall to Pend Oreille River	1	52	\$ 53	\$ 2,756	\$ -					\$	2,756
Primary Solids Pumps (offline)	1	52	\$ 53	\$ 2,756	\$ -					\$	2,756
Anaerobic Digester (offline)	1	52	\$ 53	\$ 2,756	\$ -					\$	2,756
Activated Sludge Pump Station 1	8	416	\$ 53	\$ 22,048	\$ 12,000					\$	34,048
Activated Sludge Pump Station 2, Reclaim Water Pump	10	520	\$ 53	\$ 27,560	\$ 15,000					\$	42,560
NEW Activated Sludge Pump Station 3	8	416	\$ 53	\$ 22,048	\$ 12,000					\$	34,048
Aerobic Digester (Solids Holding Lagoon)	4	208	\$ 53	\$ 11,024	\$ 10,000					\$	21,024
Belt Filter Press, Gravity Belt Thickener	8	416	\$ 53	\$ 22,048	\$ 7,000		\$ 6,500			\$	35,548
Site Maintenance and Upkeep	2	104	\$ 53	\$ 5,512	\$ 1,000					\$	6,512
Reclaimed Water Distribution System	3	156	\$ 53	\$ 8,268	\$ 3,500					\$	11,768
Plant Power, Lighting, Heating						\$ 65,000				\$	65,000
Water Utilities								\$	20,000	\$	20,000
Outside Lab Costs								\$	7,000	\$	7,000
Sludge Hauling Service								\$	31,000	\$	31,000
DOE Permits								\$	6,500	\$	6,500
Office and Operating Supplies								\$	30,000	\$	30,000
Fuel Consumed								\$	11,000	\$	11,000
TOTAL	107	5564		\$ 294,892	\$ 121,300	\$ 65,000	\$ 9,300	\$	105,500	\$	595,992

PROJECT: DATE: 5/26/2023

Newport Wastewater Facility Plan

PROJECT DESCRIPTION:

Alternative E - MBR Package Treatment Plant

CLIENT:

City of Newport Washington

PROJ. NO	70-20-023	SCHEDULE OF VALUES				
NO.	DESCRIPTION	QNT		UNIT PRICE	TOTAL COST	
1	Package WWTP (shipping included)	QIVI	· UNIT	UNIT FRICE	I TOTAL COST	
2	M300 Series MEMPAC Plant	1	LS	\$4,251,000	\$4,251,000	
3	UV Disinfection	'1	LS	\$660,000	\$660,000	
4	Sludge Dewatering System	'1	LS	\$515,000	\$500,000 \$515,000	
5	Shipping		LS	\$250,000	\$250,000 \$250,000	
6	Installation and Markup (15% of eqpt quotes)		LS	15%		
7	Mechanical Process Piping (within building, not provided by packa	ge system)	LS	\$200,000	\$200,000	
8	Influent Equalization (15% of ADF by Volume)	35,00		\$10	\$350,000	
9	Mixers	3	EA	\$15,000	\$45,000	
10	Flushing System	3	EA	\$75,000	\$225,000	
	Building for Package Treatment Plant			ψ, σ,σσσ	Ψ220,000	
12	Steel Structure with Reinforced Concrete Slab (8" Thick)	15,0	00 SF	\$240	\$3,600,000	
13	Building Mechanical Plumbing/HVAC	1	LS	10%		
14	Partial Bridge Crane for Membrane Removal	1	LS	\$120,000	\$120,000	
15	Laboratory/office space	1,20		\$350	\$420,000	
16	Site Work	,,_,			¥ 1_3,000	
17	Clearing and Grubbing	1	LS	\$103,000	\$103,000	
18	Site Grading	1	LS	\$175,000	\$175,000	
19	Erosion and Sediment Control		LS	\$50,000	\$50,000	
20	Retaining Wall	600		\$100	\$60,000	
21	Asphalt Surfacing (4" HMA over 8" CSTC)	1,50	ı	\$75	\$112,500	
22	Gravel Surfacing	685		\$50	\$34,250	
23	Fencing and Gates	1,00		\$50	\$50,000	
24	Domestic Water Connection	1	LS	\$95,000	\$95,000	
25	Site Fire Hydrants and Vault	1	LS	\$75,000	\$75,000	
26	Sludge Dewatering Pull Through and Conveyor			ψ. σ,σσσ	ψ. σ,σσσ	
27	Clearing and Grubbing	1	LS	\$51,500	\$51,500	
28	Grading	1	LS	\$87,500	\$87,500	
29	Asphalt Surfacing (4" HMA over 8" CSTC)	1,49	l l	\$75	\$111,750	
30	Pull Through Structure/Awning	2,30		\$150	\$345,000	
31	Conveyor Assembly	1	LS	\$175,000	\$175,000	
32	Intercept Influent Flow			+ 3,333	4.1.6,000	
33	Diversion Manhole	1	EA	\$25,000	\$25,000	
34	Gravity Sewer Pipe 24" Diam., resurfacing	60	LF	\$300	\$18,000	
35	Lift Station				. ,	
36	10' Diam. Wet Well with Triplex Pumps	1	LS	\$750,000	\$750,000	
37	Force Main 8" Diam.	240	LF	\$200	\$48,000	
38	Treated Effluent Discharge				, ,	
39	Gravity Sewer Pipe 15" Diam., manholes, resurfacing	1,00	0 LF	\$300	\$300,000	
40	Tie into existing outfall	1	LS	\$15,000	\$15,000	
41	Utility Water Booster Pump Sation	1	LS	\$200,000	\$200,000	
42	Backup Generator	1	LS	\$400,000		
43	Sludge Haul Trailer	1	LS	\$130,000	· ' '	
44						
45	Additional Elements (estimated % of above)					
46	Contractor mobilization and administration			10.0%	\$1,522,000	
47	Misc. Yard Piping				\$300,000	
48	Misc. Site Civil				\$300,000	
49	Electrical and instrumentation				\$2,000,000	
		•		SUBTOTAL	\$ 19,343,000	
			Contingend	y 30%		
		AIS/BAB	AA Escalatio	•		
			Sales Ta			
		Design Engineering a	nd Permittir			
	Co	onstruction Managemer		•		
		•	۸dministrati	~		
		TOTAL PROBABLE				
		I-O II AL I NOBABLI	-0001 (2	VEO DOLLARO)	9 30,300,000	

Operation and Maintenance Annual Cost Estimate

City of Newport WWTP

Alternate E: New Membrane Biological Reactor Package Treament Plant

	Estimated	Estimated									
	Weekly Labor	Annual Labor			Equipment	Electrical	Chemical				
Description	Hours	Hours	Labor Rate	Labor Cost	Cost	Cost	Cost	Othe	r T	otal	
Clerical/Administration	3	156	\$ 53	\$ 8,268	\$ 500				9	\$ 8,76	68
Influent Flow Meters	8	416	\$ 53	\$ 22,048	\$ 1,000					\$ 23,04	48
Receiving Station (offline)	1	52	\$ 53	\$ 2,756	\$ -				9	\$ 2,75	56
Headworks-Bar Rack (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100					\$ 2,85	56
Headworks-Mechanical Fine Screen (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100					\$ 2,85	56
Headworks-Vortex Grit Chamber (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100					\$ 2,85	56
Primary Clarifier (offline)	1	52	\$ 53	\$ 2,756	\$ -					\$ 2,75	56
Aeration Basin-Oxidation Ditch (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100					\$ 2,85	56
Secondary Clarifier 1 (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100					\$ 2,85	56
Secondary Clarifier 2 (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100					\$ 2,85	56
Chlorine Contact Basin, Injection Equipment (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100		\$ 100			\$ 2,95	56
Outfall to Pend Oreille River	1	52	\$ 53	\$ 2,756	\$ -					\$ 2,75	56
Primary Solids Pumps (offline)	1	52	\$ 53	\$ 2,756	\$ -					\$ 2,75	56
Anaerobic Digester (offline)	1	52	\$ 53	\$ 2,756	\$ -				9	\$ 2,75	56
Activated Sludge Pump Station 1 (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100					\$ 2,85	56
Activated Sludge Pump Station 2, Reclaim Water Pump (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100					\$ 2,85	56
Aerobic Digester (Solids Holding Lagoon) (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100					\$ 2,85	56
Belt Filter Press, Gravity Belt Thickener (mothballed)	1	52	\$ 53	\$ 2,756	\$ 100		\$ 100			\$ 2,95	56
NEW Influent Lift Station	2	104	\$ 53	\$ 5,512	\$ 10,000	\$ 8,000				\$ 23,51	12
NEW Flow Equalization Storage	2	104	\$ 53	\$ 5,512	\$ 5,000					\$ 10,51	12
NEW MBR-MEMPAC-M250	35	1820	\$ 53	\$ 96,460		\$ 102,000	\$ 24,680			\$ 360,89	90
NEW MBR-Drypac	7	364	\$ 53	\$ 19,292		\$ 2,000	\$ 700		ę	\$ 30,89	92
NEW MBR-Effluent Pump	1	52	\$ 53	\$ 2,756	\$ 1,730	\$ 4,400	\$ -			\$ 8,88	86
NEW MBR-UV Disinfection	2	104	\$ 53	\$ 5,512	\$ 26,500	\$ 35,000	\$ -		9	\$ 67,01	12
Site Maintenance and Upkeep	2	104	\$ 53	\$ 5,512	\$ 500				ę	\$ 6,01	12
Reclaimed Water Distribution System	3	156	\$ 53	\$ 8,268	\$ 100				9	\$ 8,36	68
Existing Plant Power, Lighting, Heating OTHER						\$ 10,000			9	\$ 10,00	00
Water Utilities								\$	20,000	\$ 20,00	00
Outside Lab Costs								\$	7,000	\$ 7,00	00
Sludge Hauling Service								\$	31,000	\$ 31,00	00
DOE Permits								\$	6,500	\$ 6,50	00
Office and Operating Supplies								\$	30,000	\$ 30,00	00
Fuel Consumed								\$	11,000	\$ 11,00	00
[other]									,	- ذ	
TOTAL	81	4212		\$ 223,236	\$ 193,080	\$ 161,400	\$ 25,580	\$	105,500	\$ 708,79	96

Newport WWTP Summary Alternative G Detailed Costs

Item#	Item Description	Construction Cost	Construction Cost + Contingency +AIS/BABAA/Prevailing Wage + Sales Tax	Total Cost with Contingency, Taxes, Engineering, Prevailing Wages/AIS, Admin
1	Overall Site Improvements	\$ 2,295,000	\$ 3,696,000	\$ 4,561,000
2	Headworks Improvements	\$ 366,000	\$ 589,000	\$ 727,000
3	Lab Office Upgrades/Renovation	\$ 1,180,000	\$ 1,900,000	\$ 2,345,000
4	Belt Filter Press Upgrades	\$ 542,000	\$ 873,000	\$ 1,078,000
5	Aerobic Digester + Building	\$ 1,697,000	\$ 2,732,000	\$ 3,371,000
6	Package Treatment Plant	\$ 9,359,000	\$ 15,069,000	\$ 18,595,000
	TOTAL	\$ 15,439,000	\$ 24,859,000	\$ 30,677,000
7	New Shop/Office (alternate to renovation)	\$ 2,422,000	\$ 3,900,000	\$ 4,812,000
	TOTAL with New Shop/Office, no existing upgrades	\$ 16,681,000	\$ 26,859,000	\$ 33,144,000

Planning

10/19/2023

PROJECT: City of Newport WWTP Alternative G

PROJECT DESCRIPTION:

Overall Site Improvements

CLIENT:

City of Newport 70-20-023

P/N:

ITEM			SCI	HEDULE OF VALU	JES
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Onsite Domestic Fire Hydrant	1	LS	\$15,000	\$15,000
2	SCADA system with security cameras	1	LS	\$275,000	\$275,000
3	Combine power sources into one feed	1	LS	\$200,000	\$200,000
4	Yard valve replacement throughout plant	20	EA	\$5,000	\$100,000
5	Reclaimed water system replacement and filtration system	1	LS	\$350,000	\$350,000
6	Backup generator	1	LS	\$500,000	\$500,000
7	Vactor truck	1	LS	\$600,000	\$600,000
8					-
9					-
10					-
11					-
12					-
13					-
14					-
15	Additional Elements (estimated % of above)				-
16	Contractor mobilization / administration			10.0%	\$204,000
17	Yard Piping			0.0%	\$0
18	Site Civil			0.0%	\$0
19	Electrical and instrumentation			0.0%	\$0
20	Bonding			2.5%	\$51,000

SUBTOTAL 2,295,000

Construction Contingency: 30.0% 689,000 Escalation:15.0% \$
Sales Tax: 7.7% \$
ign / CMS: 25.0% \$
ministrative: 0.2% \$ AIS/BABAA Escalation:15.0% 448,000 264,000

DATE:

Design / CMS: 25.0% 858,000 Legal and Administrative: 0.2% 7,000

TOTAL PROBABLE COST (2023 DOLLARS) \$ 4,561,000

Planning

PROJECT: DATE: 10/19/2023

City of Newport WWTP Alternative G

PROJECT DESCRIPTION:

Headworks: Screening, furnace replacement, move MCC room

CLIENT:

City of Newport

	P/N: 70-2	0-023
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ITEM			SCI	HEDULE OF VALU	IES
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
	Fine Screening				-
1	2 mgd fine screen	1	EA	\$175,000	\$175,000
2	Installation at 20%	1	EA	\$35,000	\$35,000
3	Electrical revisions for independent screen operation	1	LS	\$100,000	\$100,000
4	Replace/support grit chamber piping	1	LS	\$15,000	\$15,000
5					
6	Additional Elements (estimated % of above)				
7	Contractor mobilization / administration			10.0%	\$33,000
8	Yard Piping			0.0%	\$0
9	Site Civil			0.0%	\$0
10	Electrical and instrumentation			0.0%	\$0
11	Bonding			2.5%	\$8.000
	· ·				. ,

SUBTOTAL 366,000

construction Contingency: 30.0% \$
AIS/BABAA Escalation:15.0% \$
Sales Tax: 7.7% \$
Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ Construction Contingency: 30.0% 110,000 71,000 42,000

137,000 1,000

TOTAL PROBABLE COST (2023 DOLLARS) \$ 727,000

Planning

10/19/2023

PROJECT:

City of Newport WWTP Alternative G

PROJECT DESCRIPTION:

Lab/Office Renovation

CLIENT:

City of Newport 70-20-023

P/N:

ITEM			SCI	HEDULE OF VALU	JES
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Demolition for office/break room addition	576	SF	\$150	\$86,400
2	Office/break room addition	576	SF	\$600	\$345,600
3	Roof replacement over entire structure	1568	SF	\$40	\$62,720
4	New flooring, countertops, cubboards in lab area	1	LS	\$60,000	\$60,000
5	Extend bathroom into old chlorine room and add shower/sink	128	SF	\$350	\$44,800
6	Remove all unused electrical panels, bring up to code	1	LS	\$200,000	\$200,000
7					-
8					-
9					-
10					-
11	Additional Elements (estimated % of above)				-
12	Contractor mobilization / administration			10.0%	\$80,000
13	Yard Piping			0.0%	\$0
14	Site Civil			5.0%	\$40,000
15	Electrical and instrumentation			30.0%	\$240,000
16	Bonding			2.5%	\$20,000

SUBTOTAL 1,180,000

construction Contingency: 30.0% \$
AIS/BABAA Escalation:15.0% \$
Sales Tax: 7.7% \$
Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ Construction Contingency: 30.0% 354,000 230,000 136,000

DATE:

441,000 4,000

Planning

PROJECT: DATE: 10/19/2023

City of Newport WWTP Alternative G

PROJECT DESCRIPTION:

Belt filter press building renovations (upgrades to support systems, refurbishing existing)

CLIENT:

City of Newport 70-20-023

P/N:

ITEM		SCHEDULE OF VALUES				
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST	
1	Replace heaters	8	EA	\$4,000	\$32,000	
2	1100 gallon pressure tank	1	LS	\$20,000	\$20,000	
3	Upgrade shower boxes on gravity and press section	1	LS	\$80,000	\$80,000	
4	Domestic water feed line	1	LS	\$20,000	\$20,000	
5	Air gap skid system	1	LS	\$150,000	\$150,000	
6	Upgrade lift station with new pumps	1	LS	\$50,000	\$50,000	
7	Sludge trailer	1	LS	\$130,000	\$130,000	
8					-	
9					-	
10					-	
11					-	
12	Additional Elements (estimated % of above)				-	
13	Contractor mobilization / administration			10.0%	\$48,000	
14	Yard Piping			0.0%	\$0	
15	Site Civil			0.0%	\$0	
16	Electrical and instrumentation			0.0%	\$0	
17	Bonding			2.5%	\$12,000	

SUBTOTAL 542,000 Construction Contingency: 30.0% 163,000 106,000

AIS/BABAA Escalation:15.0% \$
Sales Tax: 7.7% \$
Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ 62,000 203,000 2,000

TOTAL PROBABLE COST (2023 DOLLARS) \$ 1,078,000

Planning

10/19/2023

PROJECT: DATE: City of Newport WWTP Alternative G PROJECT DESCRIPTION:

Aerobic digester

CLIENT:

City of Newport

>/N·	70-20-023

P/N:	70-20-023				
ITEM			SCI	HEDULE OF VALU	JES
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Demolish existing structure	2800	SF	\$60	\$168,000
2	Construct new building with overhead hoist	2800	SF	\$400	\$1,120,000
3	Building lighting	1	LS	\$100,000	\$100,000
4	Digester lift station upgrade for dual pumps on rails	1	LS	\$120,000	\$120,000
5					-
6					-
7					_
8					-
9					_
10					_
11					_
12					_
13					_
14					_
15					_
16					_
17					_
18	Additional Elements (estimated % of above)				
19	Contractor mobilization / administration			10.0%	\$151,000
20	Yard Piping			0.0%	\$131,000
21	Site Civil			0.0%	\$0 \$0
22	Electrical and instrumentation			0.0%	\$0 \$0
23				2.5%	\$38,000
23	Bonding			2.5%	\$30,000
		1	<u> </u>	SUBTOTAL	\$ 1,697,000
		Cons	truction Co	ontingency: 30.0%	+ 1,001,000
				Escalation:15.0%	
		A1		Sales Tax: 7.7%	
			Dos	sign / CMS: 25.0%	
		ا م		ministrative: 0.2%	
	TOTAL DDO				\$ 3,371,000
	TOTAL PROBABLE COST (2023 DOLLARS)				

Planning

10/19/2023

PROJECT: City of Newport WWTP Alternative G

PROJECT DESCRIPTION:

New Shop/Office/Lab

CLIENT:

City of Newport 70-20-023

P/N:	70-20-023				
ITEM			SCH	HEDULE OF VALU	IES
NO.	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	Clearing and grubbing	0.69	ACRE	\$12,000	\$8,280
2	Site excavation	14400	CY	\$20	\$288,000
3	Steel shop/lab/office building, 50'X100'	5000	SF	\$250	\$1,250,000
4	Finish office/lab space, 30'X50'	1500	SF	\$300	\$450,000
5	Extend 8" water line to shop	250	LF	\$110	\$27,500
6	Fire hydrant	1	LS	\$8,000	\$8,000
7	Extend sewer line to shop/office/lab	200	LF	\$90	\$18,000
8	Crushed surfacing top course for driveway	620	TONS	\$50	\$31,000
9	Hot mix asphalt for driveway	400	TONS	\$180	\$72,000
10					-
11					-
12					-
13					-
14					-
15					-
16	Additional Elements (estimated % of above)				-
17	Contractor mobilization / administration			10.0%	\$215,000
18	Yard Piping			0.0%	\$0
19	Site Civil			0.0%	\$0
20	Electrical and instrumentation			0.0%	\$0
21	Bonding			2.5%	\$54,000
		l		SUBTOTAL	\$ 2,422,000
		Cons	truction Co	ntingency: 30.0%	\$ 727.000

Construction Contingency: 30.0% AIS/BABAA Escalation:15.0% 472,000 \$ \$ \$ \$ Sales Tax: 7.7% 279,000

DATE:

Design / CMS: 25.0% Legal and Administrative: 0.2% 905,000 7,000

TOTAL PROBABLE COST (2023 DOLLARS) \$

4,812,000

Planning

PROJECT: DATE: 10/19/2023

City of Newport WWTP Alternative G PROJECT DESCRIPTION:

Aero-Mod Package Treatment Plant in location of existing primary anaerobic digester and pumphouse

CLIENT:

City of Newport 70-20-023

SUBTOTAL \$ 9,359,000

28,000

Construction Contingency: 30.0% \$
AIS/BABAA Escalation:15.0% \$
Sales Tax: 7.7% \$
Design / CMS: 25.0% \$
Legal and Administrative: 0.2% \$ 2,808,000 1,825,000 1,077,000 3,498,000

TOTAL PROBABLE COST (2023 DOLLARS) \$ 18,595,000

Operation and Maintenance Annual Cost Estimate

City of Newport WWTP

Alternate G: New Package Treatment Plant Option

		Estimated			5t	Florenie el	Charachard				
Description	Weekly Labor		Labau Bata	Labor Cost	Equipment	Electrical Cost	Chemical Cost	Othe		Total	.
Description Clerical/Administration	Hours 3	156	\$ 53	\$ 8,268	\$ 1,000	Cost	Cost	Otne		S S	
Influent Flow Meters	8	416	\$ 53	\$ 22,048						\$ \$	9,268 24,548
	†	52	\$ 53	· · · · · ·						۶ \$	
Receiving Station (offline) Headworks-Bar Rack	2	104	\$ 53	\$ 2,756 \$ 5,512	_ '					\$ \$	2,756 5,812
Headworks-Mechanical Fine Screen	1	104	\$ 53							\$ \$	
Headworks-Vortex Grit Chamber	2	104	\$ 53	\$ 5,512 \$ 5,512						\$ \$	18,012 12,012
Primary Clarifier (removed)		0	\$ 53		\$ 6,500					\$ \$	12,012
	0				_ '						2.056
Aeration Basin-Oxidation Ditch (mothballed) Secondary Clarifier 1 (mothballed)	1	52		\$ 2,756						\$ \$	2,856
	1	52		, , ,						т	2,856
Secondary Clarifier 2 (mothballed)	1	52 104	\$ 53 \$ 53	\$ 2,756 \$ 5,512			ć 2.000			\$	2,856
Chlorine Contact Basin, Injection Equipment	2		•	· · · · · ·	<u> </u>		\$ 2,800			\$	10,312
Outfall to Pend Oreille River	0	52 0	\$ 53 \$ 53	1	+:					\$ \$	2,756
Primary Solids Pumps (removed										_	
Anaerobic Digester (removed)	0	0			\$ -					\$	2.056
Activated Sludge Pump Station 1 (mothballed)	1	52	\$ 53	\$ 2,756						\$	2,856
Activated Sludge Pump Station 2, Reclaim Water Pump (mothballed)	1	52	\$ 53		-					\$	2,856
NEW Reclaimed Water Pump Modifications	2	104	\$ 53	\$ 5,512						\$	12,512
Aerobic Digester (Solids Holding Lagoon)	4	208	\$ 53	\$ 11,024			4 0 = 0.0			\$	21,024
Belt Filter Press, Gravity Belt Thickener (mothballed)	1	52	\$ 53				\$ 6,500			\$	16,256
NEW AeroMod Treatment Plant	32	1664	\$ 53							_	188,192
NEW MCC Blower Building	2	104	\$ 53	\$ 5,512						\$	10,512
NEW Solids Lift Station	4	208	\$ 53	\$ 11,024						\$	21,024
Site Maintenance and Upkeep	2	104	\$ 53	\$ 5,512						\$	6,012
Reclaimed Water Distribution System	3	156	\$ 53	\$ 8,268	\$ 100					\$	8,368
Plant Power, Lighting, Heating OTHER						\$ 55,000		+		\$	55,000
Water Utilities								\$		\$	20,000
Outside Lab Costs								\$		\$	7,000
Sludge Hauling Service								\$		\$	31,000
DOE Permits								\$		\$	6,500
Office and Operating Supplies								\$,	\$	30,000
Fuel Consumed								\$,	\$	11,000
[other]				ļ						\$	
TOTAL	76	3952		\$ 209,456	\$ 164,900	\$ 55,000	\$ 9,300	\$	105,500	\$	544,156