



Opinion of Probable Cost
St. Louis County, Minnesota
Namakan Basin Sanitary Sewer Initiative
SEH No. STLCO 108434

6/24/2010

Collection System Cost for Area A

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	30.0	\$12,000.00	\$360,000.00	\$700.00	\$21,000.00
2	Force Main Pipe	LF	3250.0	\$30.00	\$97,500.00	\$0.10	\$325.00
3	Force Main Service Pipe	LF	1200.0	\$25.00	\$30,000.00		
4	Force Main Junction Manhole	EA	0.0	\$5,000.00	\$0.00		
5	Force Main Flushing Connection	EA	5.0	\$3,000.00	\$15,000.00		
6	Air Release Manhole	EA	0.0	\$5,000.00	\$0.00		
7	Clear and Grub Trees	AC	1.0	\$2,000.00	\$2,000.00		
8	Street Restoration	SY	200.0	\$40.00	\$8,000.00		
9	Rock Excavation	CY	460.0	\$100.00	\$46,000.00		
10	Erosion Control and Turf Restoration	SY	9900.0	\$3.50	\$34,650.00		
				Construction Subtotal	\$593,200.00	Total Annual	\$21,400.00
				15% Contingency	\$89,000.00	O & M	
				35% Soft Costs	\$207,700.00		
				Grand Total	\$889,900.00		



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Collection System Cost for Area B without Woodenfrog Campground

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	21.0	\$12,000.00	\$252,000.00	\$700.00	\$14,700.00
2	Force Main Pipe	LF	2900.0	\$30.00	\$87,000.00	\$0.10	\$290.00
3	Force Main Service Pipe	LF	1260.0	\$25.00	\$31,500.00		
4	Force Main Junction Manhole	EA	2.0	\$5,000.00	\$10,000.00		
5	Force Main Flushing Connection	EA	4.0	\$3,000.00	\$12,000.00		
6	Air Release Manhole	EA	1.0	\$5,000.00	\$5,000.00		
7	Clear and Grub Trees	AC	4.0	\$2,000.00	\$8,000.00		
8	Street Restoration	SY	670.0	\$40.00	\$26,800.00		
9	Rock Excavation	CY	410.0	\$100.00	\$41,000.00		
10	Erosion Control and Turf Restoration	SY	9300.0	\$3.50	\$32,550.00		
Construction Subtotal					\$505,900.00	Total Annual	\$15,000.00
15% Contingency					\$75,900.00	O & M	
35% Soft Costs					\$177,100.00		
Grand Total					\$758,900.00		

Collection System Cost for Woodenfrog Campground

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	6.0	\$12,000.00	\$72,000.00	\$700.00	\$4,200.00
2	Gravity Sewer Pipe	LF	6900.0	\$20.00	\$138,000.00	\$0.10	\$690.00
3	Gravity Sewer Cleanout	EA	35.0	\$250.00	\$8,750.00		
4	Force Main Pipe	LF	2800.0	\$30.00	\$84,000.00	\$0.10	\$280.00
5	Force Main Flushing Connection	EA	3.0	\$3,000.00	\$9,000.00		
6	Air Release Manhole	EA	2.0	\$5,000.00	\$10,000.00	\$0.00	\$0.00
7	Street Restoration	SY	140.0	\$40.00	\$5,600.00		
8	Rock Excavation	CY	540.0	\$100.00	\$54,000.00		
9	Erosion Control and Turf Restoration	SY	21600.0	\$3.50	\$75,600.00		
Construction Subtotal					\$457,000.00	Total Annual	\$5,200.00
10% Contingency					\$68,600.00	O & M	
35% Soft Costs					\$160,000.00		
Grand Total					\$685,600.00		



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Collection System Cost for Area C

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	26.0	\$12,000.00	\$312,000.00	\$700.00	\$18,200.00
2	Force Main Pipe	LF	3700.0	\$30.00	\$111,000.00	\$0.10	\$370.00
3	Force Main Service Pipe	LF	1040.0	\$25.00	\$26,000.00		
4	Force Main Junction Manhole	EA	0.0	\$5,000.00	\$0.00		
5	Force Main Flushing Connection	EA	5.0	\$3,000.00	\$15,000.00		
6	Air Release Manhole	EA	1.0	\$5,000.00	\$5,000.00		
7	Clear and Grub Trees	AC	3.0	\$2,000.00	\$6,000.00		
8	Street Restoration	SY	270.0	\$40.00	\$10,800.00		
9	Rock Excavation	CY	520.0	\$100.00	\$52,000.00		
10	Erosion Control and Turf Restoration	SY	10600.0	\$3.50	\$37,100.00		
				Construction Subtotal	\$574,900.00	Total Annual	\$18,600.00
				15% Contingency	\$86,300.00	O & M	
				35% Soft Costs	\$201,300.00		
				Grand Total	\$862,500.00		



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Collection System Cost for Area F

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	47.0	\$12,000.00	\$564,000.00	\$700.00	\$32,900.00
2	Force Main Pipe	LF	6350.0	\$30.00	\$190,500.00	\$0.10	\$635.00
3	Force Main Service Pipe	LF	1880.0	\$25.00	\$47,000.00		
4	Force Main Junction Manhole	EA	2.0	\$5,000.00	\$10,000.00		
5	Force Main Flushing Connection	EA	8.0	\$3,000.00	\$24,000.00		
6	Air Release Manhole	EA	3.0	\$5,000.00	\$15,000.00		
7	Clear and Grub Trees	AC	5.0	\$2,000.00	\$10,000.00		
8	Street Restoration	SY	340.0	\$40.00	\$13,600.00		
9	Rock Excavation	CY	1770.0	\$100.00	\$177,000.00		
10	Erosion Control and Turf Restoration	SY	18300.0	\$3.50	\$64,050.00		
Construction Subtotal					\$1,115,200.00	Total Annual	\$33,600.00
15% Contingency					\$167,300.00	O & M	
35% Soft Costs					\$390,400.00		
Grand Total					\$1,672,900.00		



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Collection System Cost for Area G

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	21.0	\$12,000.00	\$252,000.00	\$700.00	\$14,700.00
2	Force Main Pipe	LF	2050.0	\$30.00	\$61,500.00	\$0.10	\$205.00
3	Force Main Service Pipe	LF	840.0	\$25.00	\$21,000.00		
4	Force Main Junction Manhole	EA	1.0	\$5,000.00	\$5,000.00		
5	Force Main Flushing Connection	EA	3.0	\$3,000.00	\$9,000.00		
6	Air Release Manhole	EA	2.0	\$5,000.00	\$10,000.00		
7	Clear and Grub Trees	AC	4.0	\$2,000.00	\$8,000.00		
8	Street Restoration	SY	340.0	\$40.00	\$13,600.00		
9	Rock Excavation	CY	570.0	\$100.00	\$57,000.00		
10	Erosion Control and Turf Restoration	SY	6500.0	\$3.50	\$22,750.00		
				Construction Subtotal	\$459,900.00	Total Annual	\$15,000.00
				15% Contingency	\$69,000.00	O & M	
				35% Soft Costs	\$161,000.00		
				Grand Total	\$689,900.00		



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Collection System Cost for Area H

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	34.0	\$12,000.00	\$408,000.00	\$700.00	\$23,800.00
2	Force Main Pipe	LF	2350.0	\$30.00	\$70,500.00	\$0.10	\$235.00
3	Force Main Service Pipe	LF	1360.0	\$25.00	\$34,000.00		
4	Force Main Junction Manhole	EA	1.0	\$5,000.00	\$5,000.00		
5	Force Main Flushing Connection	EA	3.0	\$3,000.00	\$9,000.00		
6	Air Release Manhole	EA	2.0	\$5,000.00	\$10,000.00		
7	Clear and Grub Trees	AC	3.0	\$2,000.00	\$6,000.00		
8	Street Restoration	SY	270.0	\$40.00	\$10,800.00		
9	Rock Excavation	CY	660.0	\$100.00	\$66,000.00		
10	Erosion Control and Turf Restoration	SY	8300.0	\$3.50	\$29,050.00		
				Construction Subtotal	\$648,400.00	Total Annual	\$24,100.00
				15% Contingency	\$97,300.00	O & M	
				35% Soft Costs	\$227,000.00		
				Grand Total	\$972,700.00		



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Collection System Cost for Area J

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	33.0	\$12,000.00	\$396,000.00	\$700.00	\$23,100.00
2	Force Main Pipe	LF	5100.0	\$30.00	\$153,000.00	\$0.10	\$510.00
3	Force Main Service Pipe	LF	1320.0	\$25.00	\$33,000.00		
4	Force Main Junction Manhole	EA	0.0	\$5,000.00	\$0.00		
5	Force Main Flushing Connection	EA	7.0	\$3,000.00	\$21,000.00		
6	Air Release Manhole	EA	3.0	\$5,000.00	\$15,000.00		
7	Clear and Grub Trees	AC	3.0	\$2,000.00	\$6,000.00		
8	Street Restoration	SY	400.0	\$40.00	\$16,000.00		
9	Rock Excavation	CY	710.0	\$100.00	\$71,000.00		
10	Erosion Control and Turf Restoration	SY	14300.0	\$3.50	\$50,050.00		
				Construction Subtotal	\$761,100.00	Total Annual	\$23,700.00
				15% Contingency	\$114,200.00	O & M	
				35% Soft Costs	\$266,400.00		
				Grand Total	\$1,141,700.00		



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Collection System Cost for Area K

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	36.0	\$12,000.00	\$432,000.00	\$700.00	\$25,200.00
2	Force Main Pipe	LF	4200.0	\$30.00	\$126,000.00	\$0.10	\$420.00
3	Force Main Service Pipe	LF	1440.0	\$25.00	\$36,000.00		
4	Force Main Junction Manhole	EA	0.0	\$5,000.00	\$0.00		
5	Force Main Flushing Connection	EA	6.0	\$3,000.00	\$18,000.00		
6	Air Release Manhole	EA	3.0	\$5,000.00	\$15,000.00		
7	Clear and Grub Trees	AC	3.0	\$2,000.00	\$6,000.00		
8	Street Restoration	SY	400.0	\$40.00	\$16,000.00		
9	Rock Excavation	CY	590.0	\$100.00	\$59,000.00		
10	Erosion Control and Turf Restoration	SY	12600.0	\$3.50	\$44,100.00		
				Construction Subtotal	\$752,100.00	Total Annual	\$25,700.00
				15% Contingency	\$112,900.00	O & M	
				35% Soft Costs	\$263,300.00		
				Grand Total	\$1,128,300.00		



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Collection System Cost for Area L

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	26.0	\$12,000.00	\$312,000.00	\$700.00	\$18,200.00
2	Force Main Pipe	LF	6250.0	\$30.00	\$187,500.00	\$0.10	\$625.00
3	Force Main Service Pipe	LF	1040.0	\$25.00	\$26,000.00		
4	Force Main Junction Manhole	EA	1.0	\$5,000.00	\$5,000.00		
5	Force Main Flushing Connection	EA	8.0	\$3,000.00	\$24,000.00		
6	Air Release Manhole	EA	4.0	\$5,000.00	\$20,000.00		
7	Clear and Grub Trees	AC	4.0	\$2,000.00	\$8,000.00		
8	Street Restoration	SY	200.0	\$40.00	\$8,000.00		
9	Rock Excavation	CY	870.0	\$100.00	\$87,000.00		
10	Erosion Control and Turf Restoration	SY	16200.0	\$3.50	\$56,700.00		
				Construction Subtotal	\$734,200.00	Total Annual	\$18,900.00
				15% Contingency	\$110,200.00	O & M	
				35% Soft Costs	\$257,000.00		
				Grand Total	\$1,101,400.00		



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Collection System Cost for Area M

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	34.0	\$12,000.00	\$408,000.00	\$700.00	\$23,800.00
2	Force Main Pipe	LF	4200.0	\$30.00	\$126,000.00	\$0.10	\$420.00
3	Force Main Service Pipe	LF	1360.0	\$25.00	\$34,000.00		
4	Force Main Junction Manhole	EA	1.0	\$5,000.00	\$5,000.00		
5	Force Main Flushing Connection	EA	6.0	\$3,000.00	\$18,000.00		
6	Air Release Manhole	EA	3.0	\$5,000.00	\$15,000.00		
7	Clear and Grub Trees	AC	3.0	\$2,000.00	\$6,000.00		
8	Street Restoration	SY	200.0	\$40.00	\$8,000.00		
9	Rock Excavation	CY	590.0	\$100.00	\$59,000.00		
10	Erosion Control and Turf Restoration	SY	12400.0	\$3.50	\$43,400.00		
				Construction Subtotal	\$722,400.00	Total Annual	\$24,300.00
				15% Contingency	\$108,400.00	O & M	
				35% Soft Costs	\$252,900.00		
				Grand Total	\$1,083,700.00		



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Collection System Cost for Area N

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	12.0	\$12,000.00	\$144,000.00	\$700.00	\$8,400.00
2	Force Main Pipe	LF	4050.0	\$30.00	\$121,500.00	\$0.10	\$405.00
3	Force Main Service Pipe	LF	480.0	\$25.00	\$12,000.00		
4	Force Main Junction Manhole	EA	1.0	\$5,000.00	\$5,000.00		
5	Force Main Flushing Connection	EA	6.0	\$3,000.00	\$18,000.00		
6	Air Release Manhole	EA	0.0	\$5,000.00	\$0.00		
7	Clear and Grub Trees	AC	3.0	\$2,000.00	\$6,000.00		
8	Street Restoration	SY	70.0	\$40.00	\$2,800.00		
9	Rock Excavation	CY	570.0	\$100.00	\$57,000.00		
10	Erosion Control and Turf Restoration	SY	10100.0	\$3.50	\$35,350.00		
				Construction Subtotal	\$401,700.00	Total Annual	\$8,900.00
				15% Contingency	\$60,300.00	O & M	
				35% Soft Costs	\$140,600.00		
				Grand Total	\$602,600.00		



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Collection System Cost for Area O

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	14.0	\$12,000.00	\$168,000.00	\$700.00	\$9,800.00
2	Force Main Pipe	LF	2850.0	\$30.00	\$85,500.00	\$0.10	\$285.00
3	Force Main Service Pipe	LF	560.0	\$25.00	\$14,000.00		
4	Force Main Junction Manhole	EA	1.0	\$5,000.00	\$5,000.00		
5	Force Main Flushing Connection	EA	4.0	\$3,000.00	\$12,000.00		
6	Air Release Manhole	EA	0.0	\$5,000.00	\$0.00		
7	Clear and Grub Trees	AC	3.0	\$2,000.00	\$6,000.00		
8	Street Restoration	SY	70.0	\$40.00	\$2,800.00		
9	Rock Excavation	CY	400.0	\$100.00	\$40,000.00		
10	Erosion Control and Turf Restoration	SY	7600.0	\$3.50	\$26,600.00		
				Construction Subtotal	\$359,900.00	Total Annual	\$10,100.00
				15% Contingency	\$54,000.00	O & M	
				35% Soft Costs	\$126,000.00		
				Grand Total	\$539,900.00		



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Collection System Cost for Area P

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	13.0	\$12,000.00	\$156,000.00	\$700.00	\$9,100.00
2	Force Main Pipe	LF	2300.0	\$30.00	\$69,000.00	\$0.10	\$230.00
3	Force Main Service Pipe	LF	520.0	\$25.00	\$13,000.00		
4	Force Main Junction Manhole	EA	0.0	\$5,000.00	\$0.00		
5	Force Main Flushing Connection	EA	3.0	\$3,000.00	\$9,000.00		
6	Air Release Manhole	EA	1.0	\$5,000.00	\$5,000.00		
7	Clear and Grub Trees	AC	3.0	\$2,000.00	\$6,000.00		
8	Street Restoration	SY	0.0	\$40.00	\$0.00		
9	Rock Excavation	CY	320.0	\$100.00	\$32,000.00		
10	Erosion Control and Turf Restoration	SY	6300.0	\$3.50	\$22,050.00		
				Construction Subtotal	\$312,100.00	Total Annual	\$9,400.00
				15% Contingency	\$46,900.00	O & M	
				35% Soft Costs	\$109,300.00		
				Grand Total	\$468,300.00		



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Collection System Cost for Area Q

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	4.0	\$12,000.00	\$48,000.00	\$700.00	\$2,800.00
2	Force Main Pipe	LF	1300.0	\$30.00	\$39,000.00	\$0.10	\$130.00
3	Force Main Service Pipe	LF	160.0	\$25.00	\$4,000.00		
4	Force Main Junction Manhole	EA	0.0	\$5,000.00	\$0.00		
5	Force Main Flushing Connection	EA	2.0	\$3,000.00	\$6,000.00		
6	Air Release Manhole	EA	1.0	\$5,000.00	\$5,000.00		
7	Clear and Grub Trees	AC	2.0	\$2,000.00	\$4,000.00		
8	Street Restoration	SY	0.0	\$40.00	\$0.00		
9	Rock Excavation	CY	190.0	\$100.00	\$19,000.00		
10	Erosion Control and Turf Restoration	SY	3300.0	\$3.50	\$11,550.00		
				Construction Subtotal	\$136,600.00	Total Annual	\$3,000.00
				15% Contingency	\$20,500.00	O & M	
				35% Soft Costs	\$47,900.00		
				Grand Total	\$205,000.00		



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Collection System Cost for Area T - Connection to CLWSD WWTF

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Force Main Pipe	LF	6900.0	\$30.00	\$207,000.00	\$0.10	\$690.00
2	Force Main Pipe Along Lake Bottom	LF	0.0	\$100.00	\$0.00	\$0.10	\$0.00
3	Force Main Service Pipe	LF	1000.0	\$25.00	\$25,000.00		
4	Directionally Drill Force Main Pipe	LF	0.0	\$40.00	\$0.00	\$0.10	\$0.00
5	Insulated Force Main Pipe	LF	375.0	\$40.00	\$15,000.00	\$0.10	\$37.50
6	Force Main Flushing Connection	EA	9.0	\$3,000.00	\$27,000.00		
7	Air Release Manhole	EA	3.0	\$5,000.00	\$15,000.00		
8	Connect to Existing Manhole	EA	1.0	\$2,500.00	\$2,500.00		
9	Grinder Station	EA	25.0	\$8,500.00	\$212,500.00	\$625.00	\$15,625.00
10	Service Area Lift Station	EA	1.0	\$60,000.00	\$60,000.00		
11	Remove and Replace Culvert	LF	1000.0	\$30.00	\$30,000.00		
12	Clear and Grub Trees	AC	4.0	\$2,000.00	\$8,000.00		
13	Pavement Restoration	SY	400.0	\$40.00	\$16,000.00		
14	Rock Excavation (EV)	CY	1020.0	\$100.00	\$102,000.00		
15	Erosion Control and Turf Restoration	SY	16200.0	\$3.50	\$56,700.00		
				Construction Subtotal	\$776,700.00	Total Annual	\$16,400.00
				15% Contingency	\$116,600.00	O & M	
				35% Soft Costs	\$271,900.00		
				Grand Total	\$1,165,200.00		



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Collection System Cost for Area V - Connection to CLWSD WWTF

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Force Main Pipe	LF	4700.0	\$30.00	\$141,000.00	\$0.10	\$470.00
2	Force Main Pipe Along Lake Bottom	LF	1725.0	\$100.00	\$172,500.00	\$0.10	\$172.50
3	Force Main Service Pipe	LF	1320.0	\$25.00	\$33,000.00		
4	Directionally Drill Force Main Pipe	LF	0.0	\$40.00	\$0.00	\$0.10	\$0.00
5	Insulated Force Main Pipe	LF	660.0	\$40.00	\$26,400.00	\$0.10	\$66.00
6	Force Main Flushing Connection	EA	6.0	\$3,000.00	\$18,000.00		
7	Air Release Manhole	EA	4.0	\$5,000.00	\$20,000.00		
8	Connect to Existing Manhole	EA	1.0	\$2,500.00	\$2,500.00		
9	Grinder Station	EA	33.0	\$8,500.00	\$280,500.00	\$625.00	\$20,625.00
10	Service Area Lift Station	EA	1.0	\$60,000.00	\$60,000.00	\$1,000.00	\$1,000.00
11	Remove and Replace Culvert	LF	250.0	\$30.00	\$7,500.00		
12	Clear and Grub Trees	AC	5.0	\$2,000.00	\$10,000.00		
13	Pavement Restoration	SY	200.0	\$40.00	\$8,000.00		
14	Rock Excavation (EV)	CY	900.0	\$100.00	\$90,000.00		
15	Erosion Control and Turf Restoration	SY	12000.0	\$3.50	\$42,000.00		
	Construction Subtotal				\$911,400.00	Total Annual	\$22,400.00
	15% Contingency				\$136,800.00	O & M	
	35% Soft Costs				\$319,000.00		
	Grand Total				\$1,367,200.00		



Opinion of Probable Cost
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Collection System Cost for Area W

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	3.0	\$12,000.00	\$36,000.00	\$700.00	\$2,100.00
2	Force Main Pipe	LF	650.0	\$30.00	\$19,500.00	\$0.10	\$65.00
3	Force Main Service Pipe	LF	120.0	\$25.00	\$3,000.00		
4	Force Main Junction Manhole	EA	0.0	\$5,000.00	\$0.00		
5	Force Main Flushing Connection	EA	1.0	\$3,000.00	\$3,000.00		
6	Air Release Manhole	EA	0.0	\$5,000.00	\$0.00		
7	Clear and Grub Trees	AC	2.0	\$2,000.00	\$4,000.00		
8	Street Restoration	SY	0.0	\$40.00	\$0.00		
9	Rock Excavation	CY	100.0	\$100.00	\$10,000.00		
10	Erosion Control and Turf Restoration	SY	1800.0	\$3.50	\$6,300.00		
				Construction Subtotal	\$81,800.00	Total Annual	\$2,200.00
				15% Contingency	\$12,300.00	O & M	
				35% Soft Costs	\$28,700.00		
				Grand Total	\$122,800.00		



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Collection System Cost for Area X

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	10.0	\$12,000.00	\$120,000.00	\$700.00	\$7,000.00
2	Force Main Pipe	LF	1850.0	\$30.00	\$55,500.00	\$0.10	\$185.00
3	Force Main Service Pipe	LF	400.0	\$25.00	\$10,000.00		
4	Force Main Junction Manhole	EA	0.0	\$5,000.00	\$0.00		
5	Force Main Flushing Connection	EA	3.0	\$3,000.00	\$9,000.00		
6	Air Release Manhole	EA	0.0	\$5,000.00	\$0.00		
7	Clear and Grub Trees	AC	6.0	\$2,000.00	\$12,000.00		
8	Street Restoration	SY	0.0	\$40.00	\$0.00		
9	Rock Excavation	CY	260.0	\$100.00	\$26,000.00		
10	Erosion Control and Turf Restoration	SY	5000.0	\$3.50	\$17,500.00		
				Construction Subtotal	\$250,000.00	Total Annual	\$7,200.00
				15% Contingency	\$37,500.00	O & M	
				35% Soft Costs	\$87,500.00		
				Grand Total	\$375,000.00		



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Collection System Cost for Area Y - Connection to CLWSD WWTF

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Force Main Pipe	LF	4250.0	\$30.00	\$127,500.00	\$0.10	\$425.00
2	Force Main Pipe Along Lake Bottom	LF	0.0	\$100.00	\$0.00	\$0.10	\$0.00
3	Force Main Service Pipe	LF	250.0	\$25.00	\$6,250.00		
4	Directionally Drill Force Main Pipe	LF	500.0	\$40.00	\$20,000.00	\$0.10	\$50.00
5	Insulated Force Main Pipe	LF	250.0	\$40.00	\$10,000.00	\$0.10	\$25.00
6	Force Main Flushing Connection	EA	3.0	\$3,000.00	\$9,000.00		
7	Air Release Manhole	EA	1.0	\$5,000.00	\$5,000.00		
8	Connect to Existing Manhole	EA	1.0	\$2,500.00	\$2,500.00		
9	Grinder Station	EA	5.0	\$8,500.00	\$42,500.00	\$625.00	\$3,125.00
10	Service Area Lift Station	EA	0.0	\$60,000.00	\$0.00	\$1,000.00	\$0.00
11	Remove and Replace Culvert	LF	60.0	\$30.00	\$1,800.00		
12	Clear and Grub Trees	AC	2.0	\$2,000.00	\$4,000.00		
13	Pavement Restoration	SY	65.0	\$40.00	\$2,600.00		
14	Rock Excavation (EV)	CY	50.0	\$100.00	\$5,000.00		
15	Erosion Control and Turf Restoration	SY	14170.0	\$3.50	\$49,595.00		
				Construction Subtotal	\$285,800.00	Total Annual	\$3,700.00
				15% Contingency	\$42,900.00	O & M	
				35% Soft Costs	\$100,100.00		
				Grand Total	\$428,800.00		



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Collection System Cost for Areas A, B, C, F, G, H, J, K, L, M, N, O, P, Q, W & X

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	364.0	\$12,000.00	\$4,368,000.00	\$700.00	\$254,800.00
2	Force Main Pipe	LF	53350.0	\$30.00	\$1,600,500.00	\$0.10	\$5,335.00
3	Force Main Service Pipe	LF	14980.0	\$25.00	\$374,500.00		
4	Force Main Junction Manhole	EA	10.0	\$5,000.00	\$50,000.00		
5	Force Main Flushing Connection	EA	74.0	\$3,000.00	\$222,000.00		
6	Air Release Manhole	EA	24.0	\$5,000.00	\$120,000.00		
7	Clear and Grub Trees	AC	52.0	\$2,000.00	\$104,000.00		
8	Street Restoration	SY	3430.0	\$40.00	\$137,200.00		
9	Rock Excavation	CY	8990.0	\$100.00	\$899,000.00		
10	Erosion Control and Turf Restoration	SY	152500.0	\$3.50	\$533,750.00		
Construction Subtotal					\$8,409,000.00	Total Annual	\$260,200.00
15% Contingency					\$1,261,400.00	O & M	
35% Soft Costs					\$2,943,200.00		
Grand Total					\$12,613,600.00		

Collection System Cost for Woodenfrog Campground

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Septic Tank, Pump & Connection	EA	6.0	\$12,000.00	\$72,000.00	\$700.00	\$4,200.00
2	Gravity Sewer Pipe	LF	6,900.0	\$20.00	\$138,000.00	\$0.10	\$690.00
3	Gravity Sewer Cleanout	EA	35.0	\$250.00	\$8,750.00		
4	Force Main Pipe	LF	2,800.0	\$30.00	\$84,000.00	\$0.10	\$280.00
5	Force Main Flushing Connection	EA	3.0	\$3,000.00	\$9,000.00		
6	Air Release Manhole	EA	2.0	\$5,000.00	\$10,000.00		
7	Street Restoration	SY	140.0	\$40.00	\$5,600.00		
8	Rock Excavation	CY	540.0	\$100.00	\$54,000.00		
9	Erosion Control and Turf Restoration	SY	21,600.0	\$3.50	\$75,600.00		
Construction Subtotal					\$457,000.00	Total Annual	\$5,200.00
10% Contingency					\$68,600.00	O & M	
35% Soft Costs					\$160,000.00		
Grand Total					\$685,600.00		



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Collection System Cost for Areas T, V, & Y - CONNECTION TO CLWSD WWTF

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST	UNIT PRICE	O&M COST
1	Force Main Pipe	LF	15850.0	\$30.00	\$475,500.00	\$0.10	\$1,585.00
2	Force Main Pipe Along Lake Bottom	LF	1725.0	\$100.00	\$172,500.00	\$0.10	\$172.50
3	Force Main Service Pipe	LF	2570.0	\$25.00	\$64,250.00		
4	Directionally Drill Force Main Pipe	LF	500.0	\$40.00	\$20,000.00	\$0.10	\$50.00
5	Insulated Force Main Pipe	LF	1285.0	\$40.00	\$51,400.00	\$0.10	\$128.50
6	Force Main Flushing Connection	EA	18.0	\$3,000.00	\$54,000.00		
7	Air Release Manhole	EA	8.0	\$5,000.00	\$40,000.00		
8	Connect to Existing Manhole	EA	3.0	\$2,500.00	\$7,500.00		
9	Grinder Station	EA	63.0	\$8,500.00	\$535,500.00	\$625.00	\$39,375.00
10	Service Area Lift Station	EA	2.0	\$60,000.00	\$120,000.00	\$1,000.00	\$2,000.00
11	Remove and Replace Culvert	LF	1310.0	\$30.00	\$39,300.00		
12	Clear and Grub Trees	AC	11.0	\$2,000.00	\$22,000.00		
13	Pavement Restoration	SY	665.0	\$40.00	\$26,600.00		
14	Rock Excavation (EV)	CY	1970.0	\$100.00	\$197,000.00		
15	Erosion Control and Turf Restoration	SY	42370.0	\$3.50	\$148,295.00		
					Construction Subtotal		
					\$1,973,900.00	Total Annual	\$43,400.00
					15% Contingency	O & M	
					\$296,100.00		
					35% Soft Costs		
					\$690,900.00		
					Grand Total		
					\$2,960,900.00		

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