Appendix F

Detailed Cost Estimates

Table F-1. Bassett Creek Park Pond - Base Alternate Cost Estimate

		Estimated	1		1
Description	Unit	Quantity	Unit Price	Extension	
Mobilization/Demobilization	L.S.	1	\$85,300	\$85,300	10% of project cost
Erosion Control	L.S.	1	\$18,000	\$18,000	1
Clearing and Grubbing	L.S.	1	\$5,000	\$5,000	1
Floatation Silt Curtain	L.F.	450	\$15	\$6,548	
Control of Water, Dewatering	L.S.	1	\$20,000	\$20,000	1
Pond Dreding of MPCA Dredged Material Level 1- Removal and					
Disposal	C.Y.	6,755	\$38	\$256,690	
Pond Dreding of MPCA Dredged Material Level 3- Removal and					
Disposal	C.Y.	6,755	\$70	\$472 <i>,</i> 850	
Site Grading	S.Y.	800	\$4	\$3,200	
Top Soil Borrow	C.Y.	67	\$26	\$1,733	
Flexterra HP-FGM	S.Y.	800	\$5	\$4,000	
Trail Replacement	S.Y.	2,000	\$30	\$60,000	10' width
Traffic Control/Pedestrian Control/Trail Closure	L.S.	1	\$4,000	\$4,000	
Subtotal				\$937,321	
Contingency (30%)				\$281,196	
Total				\$1,218,517	1
Engineering (30%)				\$281,196	
Total w/Engineering				\$1,499,713]

1. This assumes half of the material is Level 1 and half is Level 3 based on the sampling completed to date. Additional sampling will be needed to determine the break point between unregulated fill and contaminated material.

30-yr and Annualized Cost analysis

Estimated life span (years)

Expected annual maintenance

\$ End of life span maintenance

\$ 256,335 based on sediment accumulation rate of 35 CY per year (from P8 model)

Future Capital Cost

\$ 3,640,200

Future annual maintenance

\$ Future end of life span cost

\$ 623,000

Total Future Worth

Annualized Cost

\$ 89,600

Erosion Control					
Item		Unit	Est. Quanti	Unit Price	Extension
Erosion Control Construction Entrance		Each	1	1,045.00	1045
Street Sweeping		L.S.	1	1,000.00	1000
Inlet Protection		Each	5	194.00	970
Erosion Control Siltation Logs	_	L.F.	2000	7.50	15000

Total

18015

Restoration (6 access points, 24' wide, 50' long)

Table F-2. Bassett Creek Park Pond - Alternative 2 Cost Estimate

		Estimated			1
Description	Unit	Quantity	Unit Price	Extension	
Mobilization/Demobilization	L.S.	1	\$118,300	\$118,300	10% of project cost
Erosion Control	L.S.	1	\$18,000	\$18,000	
Clearing and Grubbing	L.S.	1	\$5,000	\$5,000	
Floatation Silt Curtain	L.F.	450	\$15	\$6,548	
Control of Water, Dewatering	L.S.	1	\$20,000	\$20,000	
Pond Dreding of MPCA Dredged Material Level 1- Removal and					
Disposal	C.Y.	15,461	\$38	\$587,518	
Pond Dreding of MPCA Dredged Material Level 3- Removal and					
Disposal	C.Y.	6,755	\$70	\$472,850	
Site Grading	S.Y.	800	\$4	\$3,200	
Top Soil Borrow	C.Y.	67	\$26	\$1,733	1
Flexterra HP-FGM	S.Y.	800	\$5	\$4,000	
Trail Replacement	S.Y.	2,000	\$30	\$60,000	10' width
Traffic Control/Pedestrian Control/Trail Closure	L.S.	1	\$4,000	\$4,000	
Subtotal				\$1,301,149	
Contingency (30%)				\$390,345	1
Total				\$1,691,493	
Engineering (30%)				\$390,345]
Total w/Engineering				\$2,081,838]

1. This assumes half of the material is Level 1 and half is Level 3 based on the sampling completed to date. Additional sampling will be needed to determine the break point between unregulated fill and contaminated material.

30-yr and Annualized Cost analysis

Estimated life span (years)

Expected annual maintenance

End of life span maintenance

End of life span maintenance

Future Capital Cost

Future annual maintenance

Future end of life span cost

Total Future Worth

Annualized Cost

\$ 30

256,000 based on sediment accumulation rate of 35 CY per year (from P8 model)

\$ 5,053,200

\$ 622,000

\$ 119,300

Erosion Control

Item	Unit	Est. Quanti	Unit Price	Extension
Erosion Control Construction Entrance	Each	1	1,045.00	1045
Street Sweeping	L.S.	1	1,000.00	1000
Inlet Protection	Each	5	194.00	970
Erosion Control Siltation Logs	L.F.	2000	7.50	15000

Total

18015

Restoration (6 access points, 24' wide, 50' long)

Table F-3. Bassett Creek Park Pond - Add-on 1 Cost Estimate

		Estimated			
Description	Unit	Quantity	Unit Price	Extension	
Mobilization/Demobilization	L.S.	1	\$12,900	\$12,900	10% of project cost
Erosion Control	L.S.	0	\$18,000	\$0	
Clearing and Grubbing	L.S.	0	\$5,000	\$0	
Floatation Silt Curtain	L.F.	0	\$15	\$0	
Control of Water, Dewatering	L.S.	0	\$20,000	\$0	
Pond Dreding of MPCA Dredged Material Level 1- Removal and					
Disposal	C.Y.	0	\$38	\$0	
Pond Dreding of MPCA Dredged Material Level 3- Removal and					
Disposal	C.Y.	1,604	\$70	\$112,275	
Berm Construction (Rock Gabions)	Each	35	\$450	\$15,750	
Site Grading	S.Y.				
		0	\$4	\$0	
Top Soil Borrow	C.Y.	0	\$26	\$0	
Flexterra HP-FGM	S.Y.	0	\$5	\$0	
Trail Replacement	S.Y.	0	\$30	\$0	10' width
Traffic Control/Pedestrian Control/Trail Closure	L.S.	0	\$4,000	\$0	
Subtotal				\$140,925	
Contingency (30%)				\$42,277	
Total				\$183,202	
Engineering (30%)				\$42,277	
Total w/Engineering				\$225,480	

^{1.} This assumes half of the material is Level 1 and half is Level 3 based on the sampling completed to date. Additional sampling will be needed to determine the break point between unregulated fill and contaminated material.

Estimated life span (years) 30

Expected annual maintenance \$ 11,500 based on sediment accumulation rate of 35 CY per year (from P8 model)

End of life span maintenance \$ Future Capital Cost \$ 547,300
Future annual maintenance \$ 547,120
Future end of life span cost \$ Total Future Worth \$ 1,094,400
Annualized Cost \$ 23,000

Erosion Control		_	T	1
Item	Unit	Est. Quanti	Unit Price	Extension
Erosion Control Construction Entrance	Each	1	1,045.00	1045
Street Sweeping	L.S.	1	1,000.00	1000
Inlet Protection	Each	5	194.00	970
Erosion Control Siltation Logs	L.F.	2000	7.50	15000

Total

18015

Restoration (6 access points, 24' wide, 50' long)

	Estimated		
Annual Maintenance	Quantity	Unit Price	Extension
Mobilization/Demobilization	1	1045	1045
Erosion Control	1	3000	3000
Pond Dreding of MPCA Dredged Material Level 3-			
Removal and Disposal	35	70	2450
Restoration	1	2000	2000
Sediment Sampling	1	3000	3000
Total			11495

Table F-4. Bassett Creek Park Pond - Add-on 1 with No Other Pond Excavation (Construction of Forebay Only) Cost Estimate

		Estimated			1
Description	Unit	Quantity	Unit Price	Extension	
Mobilization/Demobilization	L.S.	1	\$66,700	\$66,700	10% of project cost
Erosion Control	L.S.	1	\$8,500	\$8,500	
Clearing and Grubbing	L.S.	1	\$5,000	\$5,000	
Floatation Silt Curtain	L.F.	145	\$15	\$2,110	
Control of Water, Dewatering	L.S.	1	\$15,000	\$15,000	
Pond Dreding of MPCA Dredged Material Level 1- Removal and					
Disposal	C.Y.	0	\$38	\$0	
Pond Dreding of MPCA Dredged Material Level 3- Removal and					
Disposal	C.Y.	8,221	\$70	\$575,465	
Berm Construction (Rock Gabions)	Each	35	\$450	\$15,750	
Site Grading	S.Y.				
		400	\$4	\$1,600	
Top Soil Borrow	C.Y.	33	\$26	\$867	
Flexterra HP-FGM	S.Y.	400	\$5	\$2,000	
Trail Replacement	S.Y.	1,200	\$30	\$36,000	10' width
Traffic Control/Pedestrian Control/Trail Closure	L.S.	1	\$4,000	\$4,000	
Subtotal				\$732,991	
Contingency (30%)				\$219,897	1
Total				\$952,889]
Engineering (30%)				\$219,897	
Total w/Engineering				\$1,172,786	

^{1.} This assumes half of the material is Level 1 and half is Level 3 based on the sampling completed to date. Additional sampling will be needed to determine the break point between unregulated fill and contaminated material.

Expected annual maintenance \$ 11,500 based on sediment accumulation rate of 35 CY per year (from P8 model)
End of life span maintenance \$ -

 Future Capital Cost
 \$ 2,846,700

 Future annual maintenance
 \$ 547,120

 Future end of life span cost
 \$

 Total Future Worth
 \$ 3,393,800

 Annualized Cost
 \$ 71,300

Erosion Control				
Item	Unit	Est. Quant	Unit Price	Extension
Erosion Control Construction Entrance	Each	1	1,045.00	1045
Street Sweeping	L.S.	1	1,000.00	1000
Inlet Protection	Each	5	194.00	970
Erosion Control Siltation Logs	L.F.	700	7.50	5250

Total

8265

Restoration (6 access points, 24' wide, 50' long)

	Estimated		
Annual Maintenance	Quantity	Unit Price	Extension
Mobilization/Demobilization	1	1045	1045
Erosion Control	1	3000	3000
Pond Dreding of MPCA Dredged Material Level 3-			
Removal and Disposal	35	70	2450
Restoration	1	2000	2000
Sediment Sampling	1	3000	3000
Total			11495

Table F-5. Bassett Creek Park Pond - Add-on 2 Cost Estimate

		Estimated]
Description	Unit	Quantity	Unit Price	Extension	
Mobilization/Demobilization	L.S.	1	\$4,800	\$4,800	10% of project cost
Vegetation Establishment and Maintenance	Acre	4	\$11,000	\$47,980	
					_
					_
					_
					-
					_
					10' width
Subtotal				\$52,780	
Contingency (30%)				\$15,834	
Total				\$68,614	
Engineering (30%)				\$15,834	
Total w/Engineering				\$84,448	

1. This assumes half of the material is Level 1 and half is Level 3 based on the sampling completed to date. Additional sampling will be needed to determine the break point between unregulated fill and contaminated material.

30-yr and Annualized Cost analysis

Annualized Cost	\$ 21,500
Total Future Worth	\$ 1,021,100
Future end of life span cost	\$ -
Future annual maintenance	\$ 816,080
Future Capital Cost	\$ 205,000
End of life span maintenance	\$ -
Expected annual maintenance	\$ 17,153
Estimated life span (years)	30

Erosion Control				
Item	Unit	Est. Quanti	Unit Price	Extension
Erosion Control Construction Entrance	Each	1	1,045.00	1045
Street Sweeping	L.S.	1	1,000.00	1000
Inlet Protection	Each	5	194.00	970
Erosion Control Siltation Logs	L.F.	2000	7.50	15000

Total 18015

Restoration (6 access points, 24' wide, 50' long)

	Estimated		
Annual Maintenance	Quantity	Unit Price	Extension
Mobilization/Demobilization	1	5700	5700
Erosion Control	1	3000	3000
Pond Dreding of MPCA Dredged Material Level 3-			
Removal and Disposal	700	70	49000
Restoration	1	2000	2000
Sediment Sampling	1	3000	3000
Total			62700

Table F-6. Winnetka Pond East - Base Alternative Cost Estimate

Description	Unit	Estimated Quantity	Unit Price	Extension	
Mobilization/Demobilization	L.S.	1	\$20,000	\$20,000	10% of project cost
Erosion Control	L.S.	1	\$12,000	\$12,000	1 ' ′
Clearing and Grubbing	L.S.	0	\$5,000	\$0	1
Floatation Silt Curtain	L.F.	70	\$15	\$1,019	1
Control of Water, Dewatering	L.S.	1	\$15,000	\$15,000	1
Pond Dreding of MPCA Dredged Material Level 1- Removal and					1
Disposal	C.Y.	4,090	\$38	\$155,420	
Pond Dreding of MPCA Dredged Material Level 3- Removal and					1
Disposal	C.Y.	0	\$70	\$0	
Site Grading	S.Y.]
		1,300	\$4	\$5,200	
Top Soil Borrow	C.Y.	108	\$26	\$2,817]
Flexterra HP-FGM	S.Y.	1,300	\$5	\$6,500]
Trail Replacement	S.Y.	0	\$30	\$0	10' width
Traffic Control/Pedestrian Control/Trail Closure	L.S.	1	\$2,000	\$2,000	
Subtotal				\$219,955	
Contingency (30%)				\$65,987	1
Total				\$285,942	1
Engineering (30%)				\$65,987	1
Total w/Engineering				\$351,928]

Estimated life span (years) 20 Expected annual maintenance End of life span maintenance \$ 80,000 based on sediment accumulation rate of 10 CY per year (fromP8 model) **Future Capital Cost** 854,200 Future annual maintenance \$ Future end of life span cost 195,000 **Total Future Worth** \$ 1,049,200 22,100 **Annualized Cost**

Erosion Control					
Item		Unit	Est. Quanti	Unit Price	Extension
Erosion Control Construction Entrance		Each	1	1,045.00	1045
Street Sweeping		L.S.	1	1,000.00	1000
Inlet Protection		Each	4	194.00	776
Erosion Control Siltation Logs	_	L.F.	1200	7.50	9000

Total

11821

Restoration (3 access points, 24' wide, 50' long, one 260'x24' access to ne corner)

1293.333 SY

Table F-7. Winnetka Pond East - Alternate 2 Cost Estimate

		Estimated			1
Description	Unit	Quantity	Unit Price	Extension	
Mobilization/Demobilization	L.S.	1	\$51,700	\$51,700	10% of project cost
Erosion Control	L.S.	1	\$12,000	\$12,000	
Clearing and Grubbing	L.S.	0	\$5,000	\$0	
Floatation Silt Curtain	L.F.	70	\$15	\$1,019	
Control of Water, Dewatering	L.S.	1	\$15,000	\$15,000	
Pond Dreding of MPCA Dredged Material Level 1- Removal and					
Disposal	C.Y.	12,422	\$38	\$472,036	bottom elev 875.9 (4.2 ft deep)
Pond Dreding of MPCA Dredged Material Level 3- Removal and					
Disposal	C.Y.	0	\$70	\$0	
Site Grading	S.Y.				
		1,300	\$4	\$5,200	
Top Soil Borrow	C.Y.	108	\$26	\$2,817	
Flexterra HP-FGM	S.Y.	1,300	\$5	\$6,500	
Trail Replacement	S.Y.	0	\$30	\$0	10' width
Traffic Control/Pedestrian Control/Trail Closure	L.S.	1	\$2,000	\$2,000	
Subtotal				\$568,271	1
Contingency (30%)				\$170,481]
Total				\$738,753]
Engineering (30%)				\$170,481	
Total w/Engineering				\$909,234	

Estimated life span (years) 30
Expected annual maintenance \$ -

End of life span maintenance \$ 80,000 based on sediment accumulation rate of 10 CY per year (fromP8 model)

Future Capital Cost \$ 2,206,900
Future annual maintenance \$ Future end of life span cost \$ 195,000

Total Future Worth \$ 2,401,900

Annualized Cost \$ 50,500

Erosion Control

Item	Unit	nit Est. Quanti Unit Price Ex		
Erosion Control Construction Entrance	Each	1	1,045.00	1045
Street Sweeping	L.S.	1	1,000.00	1000
Inlet Protection	Each	4	194.00	776
Erosion Control Siltation Logs	L.F.	1200	7.50	9000

Total

11821

Restoration (3 access points, 24' wide, 50' long, one 260'x24' access to ne corner)

1293.333 SY