

Note regarding Appendix I

Slight differences may exist between the Total Conceptual Cost Reports (Appendix I) and the Total Project Costs in the tables in Volume 1. These slight differences can generally be attributed to the rounding of quantities entered into the District's stormwater database which was used to generate the Appendix I cost reports.

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 1A: Total Conceptual Cost Report

Alternative Name	ADCR1aP
Problem Description	Overbank Flooding
Strategy	480 A-F Reservoir SE of Lake and Mannheim . Mannheim Pump Station modification. New Melrose Park
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	25000	\$13.88	\$347,000.00	\$322,705	\$83,090	
Channel treatment: Vegetative cover only	yd2	200	\$8.54	\$1,708.00	\$1,588	\$409	
Demolition: Wood construction	ft2	95000	\$2.14	\$203,300.00	\$0	\$0	
Channel treatment: Additional fill	yd3	10700	\$13.88	\$148,516.00	\$0	\$0	
Channel treatment: Compaction	yd3	12100	\$7.48	\$90,508.00	\$0	\$0	
Channel treatment: Excavation	yd3	12100	\$10.68	\$129,228.00	\$0	\$0	
Channel treatment: Excavation	yd3	451800	\$10.68	4,825,224.00	\$0	\$0	
Channel treatment: Excavation	yd3	545500	\$10.68	5,825,940.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1400	\$11.75	\$16,450.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	225900	\$11.75	2,654,325.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	545500	\$11.75	6,409,625.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	6	\$4,757.50	\$28,545.00	\$26,546	\$0	
Pipe in earth (city): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1350	\$208.24	\$281,124.00	\$261,441	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	20	\$434.64	\$8,692.80	\$8,084	\$0	
Pipe under pavement (city): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	100	\$425.02	\$42,502.00	\$39,526	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1350	\$148.47	\$200,434.50	\$186,401	\$0	
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	42256	\$1.00	\$42,255.78	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	8831458	\$1.00	8,831,458.26	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	27479	\$1.00	\$27,478.66	\$0	\$0	
Pump Station: 80 cfs Pump Station with Flap Gate	each	1	\$1,415,000.00	\$1,415,000.00	\$789,557	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	1	\$955,000.00	\$955,000.00	\$532,881	\$0	
Pump Station: 15 cfs Pump Station with Flap Gate	each	1	\$560,000.00	\$560,000.00	\$312,475	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name ADCR1aP
Problem Description Overbank Flooding
Strategy 480 A-F Reservoir SE of Lake and Mannheim . Mannheim Pump Station modification. New Melrose Park
District Minimum Met
Criteria for Funding:
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$24,218,122	\$2,481,205	\$83,499	
Utility Relocation			4 %	\$968,725			
Mobilization \ General Conditions			5%	\$1,210,906			
Subtotal with Percent Allowances				\$26,397,753			
Contingency			30%	\$7,919,326			
Profit			5%	\$1,715,854			
Probable Construction Cost Estimate				\$36,032,933			
Design Engineering, Geotechnical, and Construction Management			10%	\$3,603,293			
Property Acquisition Cost:				\$8,901,193			
Total Conceptual Cost Estimate				\$51,102,123			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 1B: Total Conceptual Cost Report

Alternative Name	ADCR1bP
Problem Description	Overbank Flooding
Strategy	960 A-F Reservoir SE of Lake and Mannheim . Mannheim Pump Station modification. New Melrose Park
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	25000	\$13.88	\$347,000.00	\$322,705	\$83,090	
Channel treatment: Excavation	yd3	2727700	\$10.68	9,131,836.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1636600	\$11.75	9,230,050.00	\$0	\$0	
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	
Demolition: Wood construction	ft2	95000	\$2.14	\$203,300.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Land Acquisition: Purchase of Property *	dollar	8831458	\$1.00	8,831,458.26	\$0	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	20	\$434.64	\$8,692.80	\$8,084	\$0	
Channel treatment: Vegetative cover only	yd2	200	\$8.54	\$1,708.00	\$1,588	\$409	
Channel treatment: Additional fill	yd3	10700	\$13.88	\$148,516.00	\$0	\$0	
Channel treatment: Compaction	yd3	12100	\$7.48	\$90,508.00	\$0	\$0	
Channel treatment: Excavation	yd3	12100	\$10.68	\$129,228.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1400	\$11.75	\$16,450.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	42256	\$1.00	\$42,255.78	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	27479	\$1.00	\$27,478.66	\$0	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1350	\$148.47	\$200,434.50	\$186,401	\$0	
Pipe in earth (city): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1350	\$208.24	\$281,124.00	\$261,441	\$0	
Pipe under pavement (city): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	100	\$425.02	\$42,502.00	\$39,526	\$0	
Pump Station: 80 cfs Pump Station with Flap Gate	each	1	\$1,415,000.00	\$1,415,000.00	\$789,557	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	2	\$955,000.00	\$1,910,000.00	\$1,065,762	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name ADCR1bP
Problem Description Overbank Flooding
Strategy 960 A-F Reservoir SE of Lake and Mannheim . Mannheim Pump Station modification. New Melrose Park
District Minimum Met
Criteria for Funding:
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$53,259,894	\$2,701,611	\$83,499	
Utility Relocation			4 %	\$2,130,396			
Mobilization \ General Conditions			5%	\$2,662,995			
Subtotal with Percent Allowances				\$58,053,285			
Contingency			30%	\$17,415,985			
Profit			5%	\$3,773,464			
Probable Construction Cost Estimate				\$79,242,734			
Design Engineering, Geotechnical, and Construction Management			10%	\$7,924,273			
Property Acquisition Cost:				\$8,901,193			
Total Conceptual Cost Estimate				\$98,853,310			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 2A: Total Conceptual Cost Report

Alternative Name	ADCR2aP
Problem Description	Overbank Flooding
Strategy	480 A-F Reservoir SE of Lake and Mannheim . Mannheim Pump Station modification. New Melrose Park
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Basket gabions	yd3	2189	\$266.98	\$584,499.31	\$543,575	\$139,960	
Channel treatment: Sheet piling	yd2	18883	\$303.28	\$5,726,836.24	\$0	\$1,371,306	
Channel treatment: Soil stabilization and vegetative cover	yd2	55584	\$13.88	\$771,505.92	\$717,489	\$184,739	
Channel treatment: Soil stabilization and vegetative cover	yd2	25000	\$13.88	\$347,000.00	\$322,705	\$83,090	
Channel treatment: Vegetative cover only	yd2	200	\$8.54	\$1,708.00	\$1,588	\$409	
Demolition: Wood construction	ft2	95000	\$2.14	\$203,300.00	\$0	\$0	
Channel treatment: Additional fill	yd3	5000	\$13.88	\$69,400.00	\$0	\$0	
Channel treatment: Additional fill	yd3	10700	\$13.88	\$148,516.00	\$0	\$0	
Channel treatment: Compaction	yd3	5000	\$7.48	\$37,400.00	\$0	\$0	
Channel treatment: Compaction	yd3	12100	\$7.48	\$90,508.00	\$0	\$0	
Channel treatment: Excavation	yd3	52000	\$10.68	\$555,360.00	\$0	\$0	
Channel treatment: Excavation	yd3	12100	\$10.68	\$129,228.00	\$0	\$0	
Channel treatment: Excavation	yd3	997300	\$10.68	\$10,651,164.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	47000	\$11.75	\$552,250.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1400	\$11.75	\$16,450.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	771400	\$11.75	\$9,063,950.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (city): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1350	\$208.24	\$281,124.00	\$261,441	\$0	
Pipe in earth (city): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	20	\$434.64	\$8,692.80	\$8,084	\$0	
Pipe under pavement (city): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	100	\$425.02	\$42,502.00	\$39,526	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation maintenance: Large Channel Maintenance	lf	1350	\$148.47	\$200,434.50	\$186,401	\$0	
Concrete: Cast in place	lf	8993	\$100.00	\$899,300.00	\$836,335	\$215,340	
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	42256	\$1.00	\$42,255.78	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	8831458	\$1.00	\$8,831,458.26	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	661962	\$1.00	\$661,962.42	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	27479	\$1.00	\$27,478.66	\$0	\$0	
Pump Station: 80 cfs Pump Station with Flap Gate	each	1	\$1,415,000.00	\$1,415,000.00	\$789,557	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name ADCR2aP
Problem Description Overbank Flooding
Strategy 480 A-F Reservoir SE of Lake and Mannheim . Mannheim Pump Station modification. New Melrose Park
District Minimum Met
Criteria for Funding: Met
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Pump Station: 40 cfs Pump Station with Flap Gate	each	1	\$955,000.00	\$955,000.00	\$532,881	\$0	
Pump Station: 15 cfs Pump Station with Flap Gate	each	1	\$560,000.00	\$560,000.00	\$312,475	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$33,414,674	\$4,578,604	\$1,994,844	
Utility Relocation			4 %	\$1,336,587			
Mobilization \ General Conditions			5 %	\$1,670,734			
Subtotal with Percent Allowances				\$36,421,994			
Contingency			30%	\$10,926,598			
Profit			5%	\$2,367,430			
Probable Construction Cost Estimate				\$49,716,022			
Design Engineering, Geotechnical, and Construction Management			10%	\$4,971,602			
Property Acquisition Cost:				\$9,563,155			
Total Conceptual Cost Estimate				\$70,824,228			

Additional Comments

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 2B: Total Conceptual Cost Report

Alternative Name	ADCR2bP
Problem Description	Overbank Flooding
Strategy	960 A-F Reservoir SE of Lake and Mannheim . Mannheim Pump Station modification. New Melrose Park
District Minimum	Met
Criteria for Funding:	No
Recommended	No

					Maint.	Replacement	
	Unit	Quantity	Unit Cost	Base Cost	Cost	Cost	Notes/Issues
Channel treatment: Basket gabions	yd3	2189	\$266.98	\$584,499.31	\$543,575	\$139,960	
Channel treatment: Sheet piling	yd2	18883	\$303.28	5,726,836.24	\$0	\$1,371,306	
Channel treatment: Soil stabilization and vegetative cover	yd2	55584	\$13.88	\$771,505.92	\$717,489	\$184,739	
Channel treatment: Soil stabilization and vegetative cover	yd2	25000	\$13.88	\$347,000.00	\$322,705	\$83,090	
Channel treatment: Vegetative cover only	yd2	200	\$8.54	\$1,708.00	\$1,588	\$409	
Demolition: Wood construction	ft2	95000	\$2.14	\$203,300.00	\$0	\$0	
Channel treatment: Additional fill	yd3	5000	\$13.88	\$69,400.00	\$0	\$0	
Channel treatment: Additional fill	yd3	10700	\$13.88	\$148,516.00	\$0	\$0	
Channel treatment: Compaction	yd3	5000	\$7.48	\$37,400.00	\$0	\$0	
Channel treatment: Compaction	yd3	12100	\$7.48	\$90,508.00	\$0	\$0	
Channel treatment: Excavation	yd3	52000	\$10.68	\$555,360.00	\$0	\$0	
Channel treatment: Excavation	yd3	12100	\$10.68	\$129,228.00	\$0	\$0	
Channel treatment: Excavation	yd3	2182200	\$10.68	3,305,896.00	\$0	\$0	
Channel treatment: Excavation	yd3	545500	\$10.68	5,825,940.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	47000	\$11.75	\$552,250.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1400	\$11.75	\$16,450.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1091100	\$11.75	2,820,425.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	545500	\$11.75	6,409,625.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (city): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1350	\$208.24	\$281,124.00	\$261,441	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	20	\$434.64	\$8,692.80	\$8,084	\$0	
Pipe under pavement (city): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	100	\$425.02	\$42,502.00	\$39,526	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation maintenance: Large Channel Maintenance	lf	8993	\$100.00	\$899,300.00	\$836,335	\$215,340	
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	42256	\$1.00	\$42,255.78	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	8831458	\$1.00	8,831,458.26	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	661962	\$1.00	\$661,962.42	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	27479	\$1.00	\$27,478.66	\$0	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name ADCR2bP
Problem Description Overbank Flooding
Strategy 960 A-F Reservoir SE of Lake and Mannheim . Mannheim Pump Station modification. New Melrose Park
District Minimum Met
Criteria for Funding: Met
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Pump Station: 80 cfs Pump Station with Flap Gate	each	1	\$1,415,000.00	1,415,000.00	\$789,557	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	2	\$955,000.00	1,910,000.00	\$1,065,762	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$62,456,446	\$4,799,011	\$1,994,844	
Utility Relocation			4 %	\$2,498,258			
Mobilization \ General Conditions			5%	\$3,122,822			
Subtotal with Percent Allowances				\$68,077,526			
Contingency			30%	\$20,423,258			
Profit			5%	\$4,425,039			
Probable Construction Cost Estimate				\$92,925,823			
Design Engineering, Geotechnical, and Construction Management			10%	\$9,292,582			
Property Acquisition Cost:				\$9,563,155			
Total Conceptual Cost Estimate				\$118,575,415			

Additional Comments

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 3A: Total Conceptual Cost Report

Alternative Name	ADCR3aP
Problem Description	Overbank Flooding
Strategy	480 A-F Reservoir SE of Lake & Mannheim . Mannheim Pump Station & Road modification. Melrose Park
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Sheet piling	yd2	2007	\$303.28	\$608,682.96	\$0	\$145,751	
Channel treatment: Sheet piling	yd2	5978	\$303.28	1,813,007.84	\$0	\$434,130	
Channel treatment: Soil stabilization and vegetative cover	yd2	19928	\$13.88	\$276,600.64	\$257,234	\$66,233	
Channel treatment: Soil stabilization and vegetative cover	yd2	49961	\$13.88	\$693,458.68	\$644,906	\$166,051	
Channel treatment: Soil stabilization and vegetative cover	yd2	25000	\$13.88	\$347,000.00	\$322,705	\$83,090	
Channel treatment: Vegetative cover only	yd2	200	\$8.54	\$1,708.00	\$1,588	\$409	
Demolition: Wood construction	ft2	95000	\$2.14	\$203,300.00	\$0	\$0	
Channel treatment: Additional fill	yd3	1000	\$13.88	\$13,880.00	\$0	\$0	
Channel treatment: Additional fill	yd3	10700	\$13.88	\$148,516.00	\$0	\$0	
Channel treatment: Compaction	yd3	1000	\$7.48	\$7,480.00	\$0	\$0	
Channel treatment: Compaction	yd3	12100	\$7.48	\$90,508.00	\$0	\$0	
Channel treatment: Excavation	yd3	8400	\$10.68	\$89,712.00	\$0	\$0	
Channel treatment: Excavation	yd3	22000	\$10.68	\$234,960.00	\$0	\$0	
Channel treatment: Excavation	yd3	12100	\$10.68	\$129,228.00	\$0	\$0	
Channel treatment: Excavation	yd3	451800	\$10.68	4,825,224.00	\$0	\$0	
Channel treatment: Excavation	yd3	545500	\$10.68	5,825,940.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	8400	\$11.75	\$98,700.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	21000	\$11.75	\$246,750.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1400	\$11.75	\$16,450.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	225900	\$11.75	2,654,325.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	545500	\$11.75	6,409,625.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (city): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1350	\$208.24	\$281,124.00	\$261,441	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	20	\$434.64	\$8,692.80	\$8,084	\$0	
Pipe under pavement (city): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	100	\$425.02	\$42,502.00	\$39,526	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1350	\$148.47	\$200,434.50	\$186,401	\$0	
maintenance: Large Channel Maintenance	lf	2258	\$100.00	\$225,800.00	\$209,991	\$54,068	
maintenance: Large Channel Maintenance	lf	3587	\$100.00	\$358,700.00	\$333,586	\$85,892	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name ADCR3aP
Problem Description Overbank Flooding
Strategy 480 A-F Reservoir SE of Lake & Mannheim . Mannheim Pump Station & Road modification. Melrose Park
District Minimum Met
Criteria for Funding: Met
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	42256	\$1.00	\$42,255.78	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	8831458	\$1.00	8,831,458.26	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	840740	\$1.00	\$840,740.18	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	216421	\$1.00	\$216,420.95	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	216421	\$1.00	\$216,420.95	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	27479	\$1.00	\$27,478.66	\$0	\$0	
Pump Station: 80 cfs Pump Station with Flap Gate	each	1	\$1,415,000.00	\$1,415,000.00	\$789,557	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	1	\$955,000.00	\$955,000.00	\$532,881	\$0	
Pump Station: 15 cfs Pump Station with Flap Gate	each	1	\$560,000.00	\$560,000.00	\$312,475	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs) **\$28,885,854** **\$3,926,921** **\$1,035,624**

Utility Relocation 4 % \$1,155,434

Mobilization \ General Conditions 5% \$1,444,293

Subtotal with Percent Allowances **\$31,485,581**

Contingency 30% \$9,445,674

Profit 5% \$2,046,563

Probable Construction Cost Estimate **\$42,977,819**

Design Engineering, Geotechnical, and Construction Management 10% \$4,297,782

Property Acquisition Cost: \$10,174,775

Total Conceptual Cost Estimate **\$62,412,921**

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 3B: Total Conceptual Cost Report

Alternative Name	ADCR3bP
Problem Description	Flooding Improvements
Strategy	960 A-F Reservoir SE of Lake & Mannheim . Mannheim Pump Station & Road modification. Melrose Park
District Minimum	Met
Criteria for Funding:	No
Recommended	No

					Maint.	Replacement	
	Unit	Quantity	Unit Cost	Base Cost	Cost	Cost	Notes/Issues
Channel treatment: Sheet piling	yd2	2007	\$303.28	\$608,682.96	\$0	\$145,751	
Channel treatment: Sheet piling	yd2	2007	\$303.28	\$608,682.96	\$0	\$145,751	
Channel treatment: Sheet piling	yd2	5978	\$303.28	1,813,007.84	\$0	\$434,130	
Channel treatment: Soil stabilization and vegetative cover	yd2	19928	\$13.88	\$276,600.64	\$257,234	\$66,233	
Channel treatment: Soil stabilization and vegetative cover	yd2	19928	\$13.88	\$276,600.64	\$257,234	\$66,233	
Channel treatment: Soil stabilization and vegetative cover	yd2	49961	\$13.88	\$693,458.68	\$644,906	\$166,051	
Channel treatment: Soil stabilization and vegetative cover	yd2	25000	\$13.88	\$347,000.00	\$322,705	\$83,090	
Channel treatment: Vegetative cover only	yd2	200	\$8.54	\$1,708.00	\$1,588	\$409	
Demolition: Wood construction	ft2	95000	\$2.14	\$203,300.00	\$0	\$0	
Channel treatment: Additional fill	yd3	1000	\$13.88	\$13,880.00	\$0	\$0	
Channel treatment: Additional fill	yd3	10700	\$13.88	\$148,516.00	\$0	\$0	
Channel treatment: Compaction	yd3	1000	\$7.48	\$7,480.00	\$0	\$0	
Channel treatment: Compaction	yd3	12100	\$7.48	\$90,508.00	\$0	\$0	
Channel treatment: Excavation	yd3	8400	\$10.68	\$89,712.00	\$0	\$0	
Channel treatment: Excavation	yd3	8400	\$10.68	\$89,712.00	\$0	\$0	
Channel treatment: Excavation	yd3	22000	\$10.68	\$234,960.00	\$0	\$0	
Channel treatment: Excavation	yd3	12100	\$10.68	\$129,228.00	\$0	\$0	
Channel treatment: Excavation	yd3	2182200	\$10.68	3,305,896.00	\$0	\$0	
Channel treatment: Excavation	yd3	545500	\$10.68	5,825,940.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	8400	\$11.75	\$98,700.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	8400	\$11.75	\$98,700.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	21000	\$11.75	\$246,750.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1400	\$11.75	\$16,450.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1091100	\$11.75	2,820,425.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	545500	\$11.75	6,409,625.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (city): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1350	\$208.24	\$281,124.00	\$261,441	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	20	\$434.64	\$8,692.80	\$8,084	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name ADCR3bP
Problem Description Flooding Improvements
Strategy 960 A-F Reservoir SE of Lake & Mannheim . Mannheim Pump Station & Road modification. Melrose Park
District Minimum Met
Criteria for Funding: Met
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Pipe under pavement (city): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	100	\$425.02	\$42,502.00	\$39,526	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation maintenance: Large Channel Maintenance	lf	1350	\$148.47	\$200,434.50	\$186,401	\$0	
maintenance: Large Channel Maintenance	lf	2258	\$100.00	\$225,800.00	\$209,991	\$54,068	
maintenance: Large Channel Maintenance	lf	2258	\$100.00	\$225,800.00	\$209,991	\$54,068	
maintenance: Large Channel Maintenance	lf	3587	\$100.00	\$358,700.00	\$333,586	\$85,892	
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	42256	\$1.00	\$42,255.78	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	8831458	\$1.00	\$8,831,458.26	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	840740	\$1.00	\$840,740.18	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	216421	\$1.00	\$216,420.95	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	216421	\$1.00	\$216,420.95	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	216421	\$1.00	\$216,420.95	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	27479	\$1.00	\$27,478.66	\$0	\$0	
Pump Station: 80 cfs Pump Station with Flap Gate	each	1	\$1,415,000.00	\$1,415,000.00	\$789,557	\$0	
Pump Station: 80 cfs Pump Station with Flap Gate	each	1	\$1,415,000.00	\$1,415,000.00	\$789,557	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	1	\$955,000.00	\$955,000.00	\$532,881	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	2	\$955,000.00	\$1,910,000.00	\$1,065,762	\$0	
Pump Station: 15 cfs Pump Station with Flap Gate	each	1	\$560,000.00	\$560,000.00	\$312,475	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs) **\$62,157,122** **\$6,249,466** **\$1,301,676**

Utility Relocation 4 % \$2,486,285

Mobilization \ General Conditions 5% \$3,107,856

Subtotal with Percent Allowances **\$67,751,263**

Contingency 30% \$20,325,379

Profit 5% \$4,403,832

Probable Construction Cost Estimate **\$92,480,474**

Design Engineering, Geotechnical, and Construction Management 10% \$9,248,047

Property Acquisition Cost: \$10,391,196

Total Conceptual Cost Estimate **\$119,670,859**

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 4A: Total Conceptual Cost Report

Alternative Name	ADCR4aP
Problem Description	Overbank Flooding
Strategy	480 A-F Reservoir SE of Lake & Mannheim . Mannheim Pump Station modification. Melrose Park Pump
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Sheet piling	yd2	2007	\$303.28	\$608,682.96	\$0	\$145,751	
Channel treatment: Soil stabilization and vegetative cover	yd2	19928	\$13.88	\$276,600.64	\$257,234	\$66,233	
Channel treatment: Soil stabilization and vegetative cover	yd2	25000	\$13.88	\$347,000.00	\$322,705	\$83,090	
Channel treatment: Vegetative cover only	yd2	200	\$8.54	\$1,708.00	\$1,588	\$409	
Demolition: Wood construction	ft2	95000	\$2.14	\$203,300.00	\$0	\$0	
Channel treatment: Additional fill	yd3	10700	\$13.88	\$148,516.00	\$0	\$0	
Channel treatment: Compaction	yd3	12100	\$7.48	\$90,508.00	\$0	\$0	
Channel treatment: Excavation	yd3	8400	\$10.68	\$89,712.00	\$0	\$0	
Channel treatment: Excavation	yd3	12100	\$10.68	\$129,228.00	\$0	\$0	
Channel treatment: Excavation	yd3	451800	\$10.68	4,825,224.00	\$0	\$0	
Channel treatment: Excavation	yd3	545500	\$10.68	5,825,940.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	8400	\$11.75	\$98,700.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1400	\$11.75	\$16,450.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	225900	\$11.75	2,654,325.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	545500	\$11.75	6,409,625.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (city): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1350	\$208.24	\$281,124.00	\$261,441	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	20	\$434.64	\$8,692.80	\$8,084	\$0	
Pipe under pavement (city): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	100	\$425.02	\$42,502.00	\$39,526	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation maintenance: Large Channel Maintenance	lf	1350	\$148.47	\$200,434.50	\$186,401	\$0	
Concrete: Cast in place	lf	2258	\$100.00	\$225,800.00	\$209,991	\$54,068	
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	42256	\$1.00	\$42,255.78	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	8831458	\$1.00	8,831,458.26	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	216421	\$1.00	\$216,420.95	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	27479	\$1.00	\$27,478.66	\$0	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name	ADCR4aP
Problem Description	Overbank Flooding
Strategy	480 A-F Reservoir SE of Lake & Mannheim . Mannheim Pump Station modification. Melrose Park Pump
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$22,587,618	\$1,313,517	\$349,551	
Utility Relocation			4 %	\$903,505			
Mobilization \ General Conditions			5%	\$1,129,381			
Subtotal with Percent Allowances				\$24,620,504			
Contingency			30%	\$7,386,151			
Profit			5%	\$1,600,333			
Probable Construction Cost Estimate				\$33,606,987			
Design Engineering, Geotechnical, and Construction Management			10%	\$3,360,699			
Property Acquisition Cost:				\$9,117,614			
Total Conceptual Cost Estimate				\$47,748,367			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 4B: Total Conceptual Cost Report

Alternative Name	ADCR4bP
Problem Description	Overbank Flooding
Strategy	960 A-F Reservoir SE of Lake & Mannheim . Mannheim Pump Station modification. Melrose Park Pump
District Minimum	Met
Criteria for Funding:	No
Recommended	No

					Maint.	Replacement	
	Unit	Quantity	Unit Cost	Base Cost	Cost	Cost	Notes/Issues
Channel treatment: Sheet piling	yd2	2007	\$303.28	\$608,682.96	\$0	\$145,751	
Channel treatment: Sheet piling	yd2	2007	\$303.28	\$608,682.96	\$0	\$145,751	
Channel treatment: Soil stabilization and vegetative cover	yd2	19928	\$13.88	\$276,600.64	\$257,234	\$66,233	
Channel treatment: Soil stabilization and vegetative cover	yd2	19928	\$13.88	\$276,600.64	\$257,234	\$66,233	
Channel treatment: Soil stabilization and vegetative cover	yd2	25000	\$13.88	\$347,000.00	\$322,705	\$83,090	
Channel treatment: Vegetative cover only	yd2	200	\$8.54	\$1,708.00	\$1,588	\$409	
Demolition: Wood construction	ft2	95000	\$2.14	\$203,300.00	\$0	\$0	
Channel treatment: Additional fill	yd3	10700	\$13.88	\$148,516.00	\$0	\$0	
Channel treatment: Compaction	yd3	12100	\$7.48	\$90,508.00	\$0	\$0	
Channel treatment: Excavation	yd3	8400	\$10.68	\$89,712.00	\$0	\$0	
Channel treatment: Excavation	yd3	8400	\$10.68	\$89,712.00	\$0	\$0	
Channel treatment: Excavation	yd3	12100	\$10.68	\$129,228.00	\$0	\$0	
Channel treatment: Excavation	yd3	2182200	\$10.68	3,305,896.00	\$0	\$0	
Channel treatment: Excavation	yd3	545500	\$10.68	5,825,940.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	8400	\$11.75	\$98,700.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	8400	\$11.75	\$98,700.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1400	\$11.75	\$16,450.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1091100	\$11.75	2,820,425.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	545500	\$11.75	6,409,625.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (city): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1350	\$208.24	\$281,124.00	\$261,441	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	20	\$434.64	\$8,692.80	\$8,084	\$0	
Pipe under pavement (city): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	100	\$425.02	\$42,502.00	\$39,526	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1350	\$148.47	\$200,434.50	\$186,401	\$0	
maintenance: Large Channel Maintenance	lf	2258	\$100.00	\$225,800.00	\$209,991	\$54,068	
maintenance: Large Channel Maintenance	lf	2258	\$100.00	\$225,800.00	\$209,991	\$54,068	
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	42256	\$1.00	\$42,255.78	\$0	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name ADCR4bP
Problem Description Overbank Flooding
Strategy 960 A-F Reservoir SE of Lake & Mannheim . Mannheim Pump Station modification. Melrose Park Pump
District Minimum Met
Criteria for Funding:
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Land Acquisition: Purchase of Property *	dollar	8831458	\$1.00	8,831,458.26	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	216421	\$1.00	\$216,420.95	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	216421	\$1.00	\$216,420.95	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	27479	\$1.00	\$27,478.66	\$0	\$0	
Pump Station: 80 cfs Pump Station with Flap Gate	each	1	\$1,415,000.00	1,415,000.00	\$789,557	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	2	\$955,000.00	1,910,000.00	\$1,065,762	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$55,858,886	\$3,636,061	\$615,603	
Utility Relocation			4 %	\$2,234,355			
Mobilization \ General Conditions			5%	\$2,792,944			
Subtotal with Percent Allowances				\$60,886,185			
Contingency			30%	\$18,265,856			
Profit			5%	\$3,957,602			
Probable Construction Cost Estimate				\$83,109,643			
Design Engineering, Geotechnical, and Construction Management			10%	\$8,310,964			
Property Acquisition Cost:				\$9,334,035			
Total Conceptual Cost Estimate				\$105,006,306			

Additional Comments

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 6A: Total Conceptual Cost Report

Alternative Name	ADCR6aP
Problem Description	Overbank Flooding
Strategy	480 A-F Reservoir SE of Lake & Mannheim . Mannheim pump & culvert modification. Melrose Park
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Basket gabions	yd3	2189	\$266.98	\$584,499.31	\$543,575	\$139,960	
Channel treatment: Sheet piling	yd2	5978	\$303.28	\$1,813,007.84	\$0	\$434,130	
Channel treatment: Sheet piling	yd2	18883	\$303.28	\$5,726,836.24	\$0	\$1,371,306	
Channel treatment: Soil stabilization and vegetative cover	yd2	49961	\$13.88	\$693,458.68	\$644,906	\$166,051	
Channel treatment: Soil stabilization and vegetative cover	yd2	55584	\$13.88	\$771,505.92	\$717,489	\$184,739	
Channel treatment: Soil stabilization and vegetative cover	yd2	25000	\$13.88	\$347,000.00	\$322,705	\$83,090	
Channel treatment: Vegetative cover only	yd2	200	\$8.54	\$1,708.00	\$1,588	\$409	
Demolition: Wood construction	ft2	95000	\$2.14	\$203,300.00	\$0	\$0	
Channel treatment: Additional fill	yd3	1000	\$13.88	\$13,880.00	\$0	\$0	
Channel treatment: Additional fill	yd3	5000	\$13.88	\$69,400.00	\$0	\$0	
Channel treatment: Additional fill	yd3	10700	\$13.88	\$148,516.00	\$0	\$0	
Channel treatment: Compaction	yd3	1000	\$7.48	\$7,480.00	\$0	\$0	
Channel treatment: Compaction	yd3	5000	\$7.48	\$37,400.00	\$0	\$0	
Channel treatment: Compaction	yd3	12100	\$7.48	\$90,508.00	\$0	\$0	
Channel treatment: Excavation	yd3	22000	\$10.68	\$234,960.00	\$0	\$0	
Channel treatment: Excavation	yd3	52000	\$10.68	\$555,360.00	\$0	\$0	
Channel treatment: Excavation	yd3	12100	\$10.68	\$129,228.00	\$0	\$0	
Channel treatment: Excavation	yd3	451800	\$10.68	\$4,825,224.00	\$0	\$0	
Channel treatment: Excavation	yd3	545500	\$10.68	\$5,825,940.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	21000	\$11.75	\$246,750.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	47000	\$11.75	\$552,250.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1400	\$11.75	\$16,450.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	225900	\$11.75	\$2,654,325.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	545500	\$11.75	\$6,409,625.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (city): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1350	\$208.24	\$281,124.00	\$261,441	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	20	\$434.64	\$8,692.80	\$8,084	\$0	
Pipe under pavement (city): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	100	\$425.02	\$42,502.00	\$39,526	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name ADCR6aP
Problem Description Overbank Flooding
Strategy 480 A-F Reservoir SE of Lake & Mannheim . Mannheim pump & culvert modification. Melrose Park
District Minimum Met
Criteria for Funding: Met
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation maintenance: Large Channel Maintenance	lf	1350	\$148.47	\$200,434.50	\$186,401	\$0	
maintenance: Large Channel Maintenance	lf	3587	\$100.00	\$358,700.00	\$333,586	\$85,892	
maintenance: Large Channel Maintenance	lf	8993	\$100.00	\$899,300.00	\$836,335	\$215,340	
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	42256	\$1.00	\$42,255.78	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	8831458	\$1.00	\$8,831,458.26	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	840740	\$1.00	\$840,740.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	216421	\$1.00	\$216,420.95	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	661962	\$1.00	\$661,962.42	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	27479	\$1.00	\$27,478.66	\$0	\$0	
Pump Station: 80 cfs Pump Station with Flap Gate	each	1	\$1,415,000.00	\$1,415,000.00	\$789,557	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	1	\$955,000.00	\$955,000.00	\$532,881	\$0	
Pump Station: 15 cfs Pump Station with Flap Gate	each	1	\$560,000.00	\$560,000.00	\$312,475	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$36,782,910	\$5,557,096	\$2,680,917	
Utility Relocation			4 %	\$1,471,316			
Mobilization \ General Conditions			5 %	\$1,839,146			
Subtotal with Percent Allowances				\$40,093,372			
Contingency			30 %	\$12,028,012			
Profit			5 %	\$2,606,069			
Probable Construction Cost Estimate				\$54,727,453			
Design Engineering, Geotechnical, and Construction Management			10 %	\$5,472,745			
Property Acquisition Cost:				\$10,620,316			
Total Conceptual Cost Estimate				\$79,058,527			

Additional Comments

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 6B: Total Conceptual Cost Report

Alternative Name	ADCR6bP
Problem Description	Overbank Flooding
Strategy	960 A-F Reservoir SE of Lake & Mannheim . Mannheim pump & culvert modification. Melrose Park
District Minimum	Met
Criteria for Funding:	Yes
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Basket gabions	yd3	3333	\$266.98	\$889,844.34	\$827,542	\$213,076	
Channel treatment: Basket gabions	yd3	2189	\$266.98	\$584,499.31	\$543,575	\$139,960	
Channel treatment: Sheet piling	yd2	5067	\$303.28	\$1,536,719.76	\$0	\$367,972	
Channel treatment: Sheet piling	yd2	5978	\$303.28	\$1,813,007.84	\$0	\$434,130	
Channel treatment: Sheet piling	yd2	18883	\$303.28	\$5,726,836.24	\$0	\$1,371,306	
Channel treatment: Soil stabilization and vegetative cover	yd2	15389	\$13.88	\$213,599.32	\$198,644	\$51,147	
Channel treatment: Soil stabilization and vegetative cover	yd2	49961	\$13.88	\$693,458.68	\$644,906	\$166,051	
Channel treatment: Soil stabilization and vegetative cover	yd2	55584	\$13.88	\$771,505.92	\$717,489	\$184,739	
Channel treatment: Soil stabilization and vegetative cover	yd2	25000	\$13.88	\$347,000.00	\$322,705	\$83,090	
Channel treatment: Vegetative cover only	yd2	200	\$8.54	\$1,708.00	\$1,588	\$409	
Demolition: Wood construction	ft2	95000	\$2.14	\$203,300.00	\$0	\$0	
Channel treatment: Additional fill	yd3	1100	\$13.88	\$15,268.00	\$0	\$0	
Channel treatment: Additional fill	yd3	1000	\$13.88	\$13,880.00	\$0	\$0	
Channel treatment: Additional fill	yd3	5000	\$13.88	\$69,400.00	\$0	\$0	
Channel treatment: Additional fill	yd3	10700	\$13.88	\$148,516.00	\$0	\$0	
Channel treatment: Compaction	yd3	1100	\$7.48	\$8,228.00	\$0	\$0	
Channel treatment: Compaction	yd3	1000	\$7.48	\$7,480.00	\$0	\$0	
Channel treatment: Compaction	yd3	5000	\$7.48	\$37,400.00	\$0	\$0	
Channel treatment: Compaction	yd3	12100	\$7.48	\$90,508.00	\$0	\$0	
Channel treatment: Excavation	yd3	6200	\$10.68	\$66,216.00	\$0	\$0	
Channel treatment: Excavation	yd3	22000	\$10.68	\$234,960.00	\$0	\$0	
Channel treatment: Excavation	yd3	52000	\$10.68	\$555,360.00	\$0	\$0	
Channel treatment: Excavation	yd3	12100	\$10.68	\$129,228.00	\$0	\$0	
Channel treatment: Excavation	yd3	2182200	\$10.68	\$3,305,896.00	\$0	\$0	
Channel treatment: Excavation	yd3	545500	\$10.68	\$5,825,940.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	5100	\$11.75	\$59,925.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	21000	\$11.75	\$246,750.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	47000	\$11.75	\$552,250.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1400	\$11.75	\$16,450.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1091100	\$11.75	\$2,820,425.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	545500	\$11.75	\$6,409,625.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name ADCR6bP
Problem Description Overbank Flooding
Strategy 960 A-F Reservoir SE of Lake & Mannheim . Mannheim pump & culvert modification. Melrose Park
District Minimum Met
Criteria for Funding: Met
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (city): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1350	\$208.24	\$281,124.00	\$261,441	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	20	\$434.64	\$8,692.80	\$8,084	\$0	
Pipe under pavement (city): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	100	\$425.02	\$42,502.00	\$39,526	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1350	\$148.47	\$200,434.50	\$186,401	\$0	
maintenance: Large Channel Maintenance	lf	2770	\$100.00	\$277,000.00	\$257,606	\$66,328	
maintenance: Large Channel Maintenance	lf	3587	\$100.00	\$358,700.00	\$333,586	\$85,892	
maintenance: Large Channel Maintenance	lf	8993	\$100.00	\$899,300.00	\$836,335	\$215,340	
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	42256	\$1.00	\$42,255.78	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	8831458	\$1.00	\$8,831,458.26	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	840740	\$1.00	\$840,740.18	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	110034	\$1.00	\$110,033.92	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	216421	\$1.00	\$216,420.95	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	661962	\$1.00	\$661,962.42	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	27479	\$1.00	\$27,478.66	\$0	\$0	
Pump Station: 80 cfs Pump Station with Flap Gate	each	1	\$1,415,000.00	\$1,415,000.00	\$789,557	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	2	\$955,000.00	\$1,910,000.00	\$1,065,762	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$68,891,483	\$7,061,294	\$3,379,440	
Utility Relocation			4 %	\$2,755,659			
Mobilization \ General Conditions			5 %	\$3,444,574			
Subtotal with Percent Allowances				\$75,091,716			
Contingency			30%	\$22,527,515			
Profit			5%	\$4,880,962			
Probable Construction Cost Estimate				\$102,500,193			
Design Engineering, Geotechnical, and Construction Management			10%	\$10,250,019			
Property Acquisition Cost:				\$10,730,350			
Total Conceptual Cost Estimate				\$133,921,296			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 7: Total Conceptual Cost Report

Alternative Name	ADCR7
Problem Description	Streambank erosion
Strategy	Streambank stabilization between Whitehall and along Fullerton/King Arthur Drive
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	240	\$587.35	\$140,964.00	\$131,094	\$33,754	
Channel treatment: Soil stabilization and vegetative cover	yd2	800	\$13.88	\$11,104.00	\$10,327	\$2,659	
Channel treatment: Excavation	yd3	360	\$10.68	\$3,844.80	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	360	\$11.75	\$4,230.00	\$0	\$0	
Channel treatment: Reinforced one sided concrete wall	yd3	204	\$587.35	\$119,819.40	\$111,430	\$28,691	
Channel treatment: Soil stabilization and vegetative cover	yd2	556	\$13.88	\$7,717.28	\$7,177	\$1,848	
Channel treatment: Excavation	yd3	306	\$10.68	\$3,268.08	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	306	\$11.75	\$3,595.50	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$294,543	\$260,028	\$66,952
Utility Relocation			4 %	\$11,782		
Mobilization \ General Conditions			5%	\$14,727		
Subtotal with Percent Allowances				\$321,052		
Contingency			30%	\$96,316		
Profit			5%	\$20,868		
Probable Construction Cost Estimate				\$438,236		
Design Engineering, Geotechnical, and Construction Management			10%	\$43,824		
Property Acquisition Cost:				\$0		
Total Conceptual Cost Estimate				\$809,040		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
ADCR 8: Total Conceptual Cost Report

Alternative Name	ADCR8
Problem Description	Overbank flooding in the City of Northlake and Leyden Township.
Strategy	200 A-F Reservoir @ Centerpoint Preserve. Bulkhead Wolf Rd for park flood storage. Dams removed w/
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	121000	\$13.88	\$1,679,480.00	\$1,561,891	\$402,156	
Channel treatment: Dumped riprap	yd3	400	\$67.28	\$26,912.00	\$25,028	\$6,444	
Channel treatment: Excavation	yd3	1556000	\$10.68	\$6,618,080.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1556000	\$11.75	\$8,283,000.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	7000	\$5.34	\$37,380.00	\$0	\$0	
Outlet structures: Concrete swale	yd2	10000	\$98.25	\$982,500.00	\$913,710	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	100	\$661.03	\$66,103.00	\$61,475	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Culvert Modification: Bulhead Culver	each	3	\$20,000.00	\$60,000.00	\$33,479	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)		\$38,553,455	\$3,339,570	\$408,600
Utility Relocation	4 %	\$1,542,138		
Mobilization \ General Conditions	5%	\$1,927,673		
Subtotal with Percent Allowances		\$42,023,266		
Contingency	30%	\$12,606,980		
Profit	5%	\$2,731,512		
Probable Construction Cost Estimate		\$57,361,758		
Design Engineering, Geotechnical, and Construction Management	10%	\$5,736,176		
Property Acquisition Cost:			\$0	
Total Conceptual Cost Estimate		\$66,846,104		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 9: Total Conceptual Cost Report

Alternative Name	ADCR 9
Problem Description	Erosion Control
Strategy	Streambank stabilization downstream of Cermak Rd along 19th Avenue
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	117	\$587.35	\$68,719.95	\$63,909	\$16,455	
Channel treatment: Soil stabilization and vegetative cover	yd2	430	\$13.88	\$5,968.40	\$5,551	\$1,429	
Channel treatment: Additional fill	yd3	53	\$13.88	\$735.64	\$0	\$0	
Channel treatment: Compaction	yd3	53	\$7.48	\$396.44	\$0	\$0	
Channel treatment: Excavation	yd3	230	\$10.68	\$2,456.40	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	175	\$11.75	\$2,056.25	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$80,333	\$69,459	\$17,884	
Utility Relocation			4 %	\$3,213			
Mobilization \ General Conditions			5%	\$4,017			
Subtotal with Percent Allowances				\$87,563			
Contingency			30%	\$26,269			
Profit			5%	\$5,692			
Probable Construction Cost Estimate				\$119,524			
Design Engineering, Geotechnical, and Construction Management			10%	\$11,952			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$218,819			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 1A: Total Conceptual Cost Report

Alternative Name	BUCR 1A
Problem Description	Buffalo Grove at the confluence with White Pine Ditch
Strategy	Floodwall Lake-Cook Rd To Raupp Blvd. Channel Improvements Buffalo Grove Rd to Aptakisic. Bulkhead
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Dumped rock	yd3	110	\$67.28	\$7,400.80	\$6,883	\$1,772	
Channel treatment: Reinforced one sided concrete wall	yd3	1386	\$587.35	\$814,067.10	\$757,070	\$194,931	
Channel treatment: Sheet piling	yd2	2422	\$303.28	\$734,544.16	\$0	\$175,889	
Channel treatment: Soil stabilization and vegetative cover	yd2	24222	\$13.88	\$336,201.36	\$312,662	\$80,504	
Channel treatment: Soil stabilization and vegetative cover	yd2	924	\$13.88	\$12,825.12	\$11,927	\$3,071	
Channel treatment: Excavation	yd3	24222	\$10.68	\$258,690.96	\$0	\$0	
Channel treatment: Excavation	yd3	7776	\$10.68	\$83,047.68	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1386	\$11.75	\$16,285.50	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	7776	\$11.75	\$91,368.00	\$0	\$0	
Outlet structures (Headwall): 36 inches or less	each	7	\$2,600.34	\$18,202.38	\$16,928	\$0	
Pipe in earth (county): 36 inches or less	lf	1450	\$216.78	\$314,331.00	\$292,323	\$0	
maintenance: Small Channel Maintenance (Brush and debris removal)	lf	2967	\$5.00	\$14,835.00	\$13,796	\$3,552	
Land Acquisition: Permanent Easement *	dollar	76750	\$1.00	\$76,750.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	46050	\$1.00	\$46,050.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	99090	\$1.00	\$99,090.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	2	\$800,000.00	\$1,600,000.00	\$1,487,976	\$0	
Culvert Modification: Bulhead Bridge Opening	each	1	\$50,000.00	\$50,000.00	\$27,900	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)		\$4,351,799	\$2,927,464	\$459,719
Utility Relocation	4 %	\$174,072		
Mobilization \ General Conditions	5%	\$217,590		
Subtotal with Percent Allowances		\$4,743,461		
Contingency	30%	\$1,423,038		
Profit	5%	\$308,325		
Probable Construction Cost Estimate		\$6,474,824		
Design Engineering, Geotechnical, and Construction Management	10%	\$647,482		
Property Acquisition Cost:		\$221,890		
Total Conceptual Cost Estimate		\$10,731,380		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 1B: Total Conceptual Cost Report

Alternative Name	BUCR 1B
Problem Description	Overbank Flooding
Strategy	Chanel Improvements
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Dumped riprap	yd3	163	\$67.28	\$10,966.64	\$10,199	\$2,626	
Channel treatment: Soil stabilization and vegetative cover	yd2	3126	\$13.88	\$43,388.88	\$40,351	\$10,390	
Channel treatment: Excavation	yd3	3668	\$10.68	\$39,174.24	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	3668	\$11.75	\$43,099.00	\$0	\$0	
Culvert Modification: Bulhead Bridge Opening	each	1	\$50,000.00	\$50,000.00	\$27,900	\$0	
Land Acquisition: Temporary Easement *	dollar	136194	\$1.00	\$136,194.00	\$0	\$0	
maintenance: Small Channel Maintenance (Brush and debris removal)	lf	4400	\$5.00	\$22,000.00	\$20,460	\$5,268	
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$208,629	\$98,909	\$18,284	
Utility Relocation			4 %	\$8,345			
Mobilization \ General Conditions			5%	\$10,431			
Subtotal with Percent Allowances				\$227,405			
Contingency			30%	\$68,222			
Profit			5%	\$14,781			
Probable Construction Cost Estimate				\$310,408			
Design Engineering, Geotechnical, and Construction Management			10%	\$31,041			
Property Acquisition Cost:				\$136,194			
Total Conceptual Cost Estimate				\$594,836			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 2A: Total Conceptual Cost Report

Alternative Name	BUCR2A
Problem Description	Various flooding within the Village of Wheeling
Strategy	Stormwater storage within Schwinn Farms in the Village of Wheeling- Weiland Rd Alt 1/1a
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	128260	\$13.88	1,780,248.80	\$1,655,604	\$426,285	
Channel treatment: Excavation	yd3	734196	\$10.68	7,841,213.28	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	734196	\$11.75	8,626,803.00	\$0	\$0	
Concrete: Cast in place	yd3	1249	\$250.00	\$312,250.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	13200000	\$1.00	3,200,000.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$19,360,515	\$2,399,592	\$426,285	
Utility Relocation			4 %	\$774,421			
Mobilization \ General Conditions			5%	\$968,026			
Subtotal with Percent Allowances				\$21,102,961			
Contingency			30%	\$6,330,888			
Profit			5%	\$1,371,692			
Probable Construction Cost Estimate				\$28,805,542			
Design Engineering, Geotechnical, and Construction Management			10%	\$2,880,554			
Property Acquisition Cost:				\$13,200,000			
Total Conceptual Cost Estimate				\$47,711,974			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 2B: Total Conceptual Cost Report

Alternative Name	BUCR2B
Problem Description	Various flooding within the Village of Wheeling
Strategy	Stormwater storage within Schwinn Farms in the Village of Wheeling- Weiland Rd Alt 1/1a
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Land Acquisition: Purchase of Property *	dollar	10920000	\$1.00	0,920,000.00	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	98388	\$13.88	1,365,625.44	\$1,270,011	\$327,003	
Channel treatment: Excavation	yd3	637363	\$10.68	6,807,036.84	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	629012	\$11.75	7,390,891.00	\$0	\$0	
Concrete: Cast in place	yd3	1249	\$250.00	\$312,250.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	8351	\$13.88	\$115,911.88	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	8351	\$5.34	\$44,594.34	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$16,836,310	\$2,013,999	\$327,003
Utility Relocation			4 %	\$673,452		
Mobilization \ General Conditions			5%	\$841,815		
Subtotal with Percent Allowances				\$18,351,577		
Contingency			30%	\$5,505,473		
Profit			5%	\$1,192,853		
Probable Construction Cost Estimate				\$25,049,903		
Design Engineering, Geotechnical, and Construction Management			10%	\$2,504,990		
Property Acquisition Cost:				\$10,920,000		
Total Conceptual Cost Estimate				\$40,815,895		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 2C: Total Conceptual Cost Report

Alternative Name	BUCR2C
Problem Description	Various flooding within the Village of Wheeling
Strategy	Stormwater storage within Schwinn Farms in the Village of Wheeling- Weiland Rd Alt 1/1a
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	124843	\$13.88	1,732,820.84	\$1,611,497	\$414,929	
Channel treatment: Excavation	yd3	712948	\$10.68	7,614,284.64	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	708622	\$11.75	8,326,308.50	\$0	\$0	
Concrete: Cast in place	yd3	1054	\$250.00	\$263,500.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	4326	\$13.88	\$60,044.88	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	4326	\$5.34	\$23,100.84	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Land Acquisition: Purchase of Property *	dollar	14400000	\$1.00	4,400,000.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$18,820,060	\$2,355,485	\$414,929
Utility Relocation	4 %			\$752,802		
Mobilization \ General Conditions	5%			\$941,003		
Subtotal with Percent Allowances				\$20,513,865		
Contingency	30%			\$6,154,160		
Profit	5%			\$1,333,401		
Probable Construction Cost Estimate				\$28,001,426		
Design Engineering, Geotechnical, and Construction Management	10%			\$2,800,143		
Property Acquisition Cost:				\$14,400,000		
Total Conceptual Cost Estimate				\$47,971,982		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 2D: Total Conceptual Cost Report

Alternative Name	BUCR2D
Problem Description	Various flooding within the Village of Wheeling
Strategy	Stormwater storage within Schwinn Farms in the Village of Wheeling- Weiland Rd Alt 1/1a
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Land Acquisition: Purchase of Property *	dollar	14800000	\$1.00	4,800,000.00	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	129480	\$13.88	1,797,182.40	\$1,671,352	\$430,340	
Channel treatment: Excavation	yd3	741585	\$10.68	7,920,127.80	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	737259	\$11.75	8,662,793.25	\$0	\$0	
Concrete: Cast in place	yd3	1054	\$250.00	\$263,500.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	4326	\$13.88	\$60,044.88	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	4326	\$5.34	\$23,100.84	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$19,526,749	\$2,415,340	\$430,340
Utility Relocation			4 %	\$781,070		
Mobilization \ General Conditions			5%	\$976,337		
Subtotal with Percent Allowances				\$21,284,157		
Contingency			30%	\$6,385,247		
Profit			5%	\$1,383,470		
Probable Construction Cost Estimate				\$29,052,874		
Design Engineering, Geotechnical, and Construction Management			10%	\$2,905,287		
Property Acquisition Cost:				\$14,800,000		
Total Conceptual Cost Estimate				\$49,603,841		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 3: Total Conceptual Cost Report

Alternative Name	BUCR 3
Problem Description	Flooding downstream through Buffalo Grove and Wheeling
Strategy	Expansion of the Buffalo Creek Flood Control Reservoir by 800 A-F
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	212960	\$13.88	2,955,884.80	\$2,748,928	\$707,794	
Channel treatment: Excavation	yd3	1250333	\$10.68	3,353,556.44	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1250256	\$11.75	4,690,508.00	\$0	\$0	
Concrete: Cast in place	yd3	5926	\$250.00	1,481,500.00	\$0	\$0	
Concrete: Cast in place	yd3	0	\$250.00	\$0.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	77	\$13.88	\$1,068.76	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	77	\$5.34	\$411.18	\$0	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Pipe in earth (county): 42 to 66 inches / box culvert (15-27 ft2)	lf	20	\$208.24	\$4,164.80	\$3,873	\$0	
Land Acquisition: Purchase of Property *	dollar	6000000	\$1.00	6,000,000.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$32,491,851	\$2,757,225	\$707,794	
Utility Relocation			4 %	\$1,299,674			
Mobilization \ General Conditions			5 %	\$1,624,593			
Subtotal with Percent Allowances				\$35,416,118			
Contingency			30%	\$10,624,835			
Profit			5%	\$2,302,048			
Probable Construction Cost Estimate				\$48,343,001			
Design Engineering, Geotechnical, and Construction Management			10%	\$4,834,300			
Property Acquisition Cost:				\$6,000,000			
Total Conceptual Cost Estimate				\$62,642,321			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 4: Total Conceptual Cost Report

Alternative Name	BUCR 4
Problem Description	Overbank flooding along Buffalo Creek Trib A, downstream of Hicks Rd
Strategy	Mitigation storage reservoir in forest preserve to accomodate channel improvements, Rand Rd to Baldwin Rd
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Dumped rock	yd3	236	\$67.28	\$15,878.08	\$14,766	\$3,802	
Channel treatment: Soil stabilization and vegetative cover	yd2	2467	\$13.88	\$34,241.96	\$31,845	\$8,199	
Channel treatment: Soil stabilization and vegetative cover	yd2	19360	\$13.88	\$268,716.80	\$249,903	\$64,345	
Demolition: Brick, concrete, or stone construction	ft2	2460	\$4.27	\$10,504.20	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	15600	\$4.27	\$66,612.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	178	\$13.88	\$2,470.64	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	178	\$5.34	\$950.52	\$0	\$0	
Channel treatment: Excavation	yd3	5549	\$10.68	\$59,263.32	\$0	\$0	
Channel treatment: Excavation	yd3	72600	\$10.68	\$775,368.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	5549	\$11.75	\$65,200.75	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	72600	\$11.75	\$853,050.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	182	\$11.75	\$2,138.50	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	289	\$11.75	\$3,395.75	\$0	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Pipe in earth (county): 36 inches or less	lf	300	\$216.78	\$65,034.00	\$60,481	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	270	\$661.03	\$178,478.10	\$165,982	\$0	
Excavation, Structural (deep heavy soil & clay): Structural Excavation (12"-18" deep)	yd3	327	\$169.80	\$55,524.60	\$51,637	\$0	
Excavation, Structural (deep heavy soil & clay): Structural Excavation (12"-18" deep)	yd3	156	\$169.80	\$26,488.80	\$24,634	\$0	
Pipe under pavement (county): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	800	\$291.54	\$233,232.00	\$216,902	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation maintenance: Small Channel Maintenance (Brush and debris removal)	lf	490	\$148.47	\$72,750.30	\$67,657	\$0	
Concrete: Cast in place	lf	6368	\$5.00	\$31,840.00	\$29,611	\$7,624	
Concrete: Cast in place	yd3	207	\$250.00	\$51,750.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	600000	\$1.00	\$600,000.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	184976	\$1.00	\$184,976.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name	BUCR 4
Problem Description	Overbank flooding along Buffalo Creek Trib A, downstream of Hicks Rd
Strategy	Mitigation storage reservoir in forest preserve to accomodate channel improvements, Rand Rd to Baldwin Rd
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$3,675,489	\$1,659,823	\$83,970	
Utility Relocation			4 %	\$147,020			
Mobilization \ General Conditions			5%	\$183,774			
Subtotal with Percent Allowances				\$4,006,283			
Contingency			30%	\$1,201,885			
Profit			5%	\$260,408			
Probable Construction Cost Estimate				\$5,468,576			
Design Engineering, Geotechnical, and Construction Management			10%	\$546,858			
Property Acquisition Cost:				\$784,976			
Total Conceptual Cost Estimate				\$8,544,202			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 5: Total Conceptual Cost Report

Alternative Name	BUCR 5
Problem Description	Overbank flooding
Strategy	Childerly Park floodwall in conjunction with reservoir on the Horcher and Schwinn Farms.
District Minimum	Met
Criteria for Funding:	Yes
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	128260	\$13.88	1,780,248.80	\$1,655,604	\$426,285	
Channel treatment: Excavation	yd3	734196	\$10.68	7,841,213.28	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	734196	\$11.75	8,626,803.00	\$0	\$0	
Concrete: Cast in place	yd3	1249	\$250.00	\$312,250.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Channel treatment: Reinforced one sided concrete wall	yd3	2623	\$587.35	1,540,619.05	\$1,432,752	\$368,905	
Channel treatment: Material to be hauled offsite	yd3	2623	\$11.75	\$30,820.25	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	45833	\$13.88	\$636,162.04	\$591,621	\$152,331	
Channel treatment: Excavation	yd3	45833	\$10.68	\$489,496.44	\$0	\$0	
Channel treatment: Sheet piling	yd2	4583	\$303.28	1,389,932.24	\$0	\$332,823	
Pump Station: 10ac-ft per day interior drainage	each	2	\$800,000.00	1,600,000.00	\$1,487,976	\$0	
Pipe in earth (county): 36 inches or less	lf	100	\$216.78	\$21,678.00	\$20,160	\$0	
Outlet structures (Headwall): 36 inches or less	each	4	\$2,600.34	\$10,401.36	\$9,673	\$0	
Land Acquisition: Temporary Easement *	dollar	82159	\$1.00	\$82,159.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	136932	\$1.00	\$136,932.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	13200000	\$1.00	3,200,000.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)		\$25,079,624	\$5,941,774	\$1,280,344
Utility Relocation	4 %	\$1,003,185		
Mobilization \ General Conditions	5 %	\$1,253,981		
Subtotal with Percent Allowances		\$27,336,791		
Contingency	30 %	\$8,201,037		
Profit	5 %	\$1,776,891		
Probable Construction Cost Estimate		\$37,314,719		
Design Engineering, Geotechnical, and Construction Management	10 %	\$3,731,472		
Property Acquisition Cost:		\$13,419,091		
Total Conceptual Cost Estimate		\$61,687,400		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 6: Total Conceptual Cost Report

Alternative Name	BUCR 6
Problem Description	Flooding within the Village of Wheeling
Strategy	Expansion of existing Water Tower Basin in Wheeling.
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	40414	\$13.88	\$560,946.32	\$521,671	\$134,320	
Channel treatment: Excavation	yd3	164011	\$10.68	\$1,751,637.48	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	164011	\$11.75	\$1,927,129.25	\$0	\$0	
Concrete: Cast in place	yd3	274	\$250.00	\$68,500.00	\$0	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Pipe in earth (county): 36 inches or less	lf	25	\$216.78	\$5,419.50	\$5,040	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Land Acquisition: Purchase of Property *	dollar	85724	\$1.00	\$85,724.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	30549	\$1.00	\$30,549.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$5,116,233	\$1,273,118	\$134,320	
Utility Relocation			4 %	\$204,649			
Mobilization \ General Conditions			5 %	\$255,812			
Subtotal with Percent Allowances				\$5,576,694			
Contingency			30%	\$1,673,008			
Profit			5%	\$362,485			
Probable Construction Cost Estimate				\$7,612,187			
Design Engineering, Geotechnical, and Construction Management			10%	\$761,219			
Property Acquisition Cost:				\$116,273			
Total Conceptual Cost Estimate				\$9,897,116			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 7: Total Conceptual Cost Report

Alternative Name	BUCR 7
Problem Description	Flooding within the Village of Wheeling
Strategy	The addition of four reservoirs areas along Wolf Road and channel improvements from Jeffery Avenue to
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	92730	\$13.88	\$1,287,092.40	\$1,196,976	\$308,198	
Channel treatment: Excavation	yd3	149169	\$10.68	\$1,593,124.92	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	149169	\$11.75	\$1,752,735.75	\$0	\$0	
Concrete: Cast in place	yd3	1716	\$250.00	\$429,000.00	\$0	\$0	
Outlet structures (Headwall): 36 inches or less	each	3	\$2,600.34	\$7,801.02	\$7,255	\$0	
Pipe in earth (county): 36 inches or less	lf	75	\$216.78	\$16,258.50	\$15,120	\$0	
Channel treatment: Dumped rock	yd3	119	\$67.28	\$8,006.32	\$7,446	\$1,917	
Channel treatment: Soil stabilization and vegetative cover	yd2	1933	\$13.88	\$26,830.04	\$24,952	\$6,425	
Channel treatment: Excavation	yd3	4131	\$10.68	\$44,119.08	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	4131	\$11.75	\$48,539.25	\$0	\$0	
maintenance: Small Channel Maintenance (Brush and debris removal)	lf	3214	\$5.00	\$16,070.00	\$14,945	\$3,848	
Land Acquisition: Purchase of Property *	dollar	1017507	\$1.00	\$1,017,507.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$5,229,577	\$1,266,693	\$320,388	
Utility Relocation			4 %	\$209,183			
Mobilization \ General Conditions			5%	\$261,479			
Subtotal with Percent Allowances				\$5,700,239			
Contingency			30%	\$1,710,072			
Profit			5%	\$370,516			
Probable Construction Cost Estimate				\$7,780,827			
Design Engineering, Geotechnical, and Construction Management			10%	\$778,083			
Property Acquisition Cost:				\$1,017,507			
Total Conceptual Cost Estimate				\$11,163,498			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 8: Total Conceptual Cost Report

Alternative Name	BUCR 8
Problem Description	Flooding within the Villsgge of Wheeling
Strategy	Addition of 3 reservoirs along Diversion Channel, revision of diversion structure, improvements of Diversion
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Dumped rock	yd3	249	\$67.28	\$16,752.72	\$15,580	\$4,011	
Channel treatment: Soil stabilization and vegetative cover	yd2	4577	\$13.88	\$63,528.76	\$59,081	\$15,212	
Channel treatment: Soil stabilization and vegetative cover	yd2	299741	\$13.88	4,160,405.08	\$3,869,113	\$996,220	
Channel treatment: Excavation	yd3	17141	\$10.68	\$183,065.88	\$0	\$0	
Channel treatment: Excavation	yd3	390217	\$10.68	4,167,517.56	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	17141	\$11.75	\$201,406.75	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	390217	\$11.75	4,585,049.75	\$0	\$0	
Outlet structures (Headwall): 36 inches or less	each	3	\$2,600.34	\$7,801.02	\$7,255	\$0	
Pipe in earth (county): 36 inches or less	lf	75	\$216.78	\$16,258.50	\$15,120	\$0	
Concrete: Cast in place	yd3	2631	\$250.00	\$657,750.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	11000000	\$1.00	1,000,000.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	352663	\$1.00	\$352,663.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	3	\$800,000.00	2,400,000.00	\$2,231,963	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$16,459,536	\$6,198,112	\$1,015,443
Utility Relocation			4 %	\$658,381		
Mobilization \ General Conditions			5%	\$822,977		
Subtotal with Percent Allowances				\$17,940,894		
Contingency			30%	\$5,382,268		
Profit			5%	\$1,166,158		
Probable Construction Cost Estimate				\$24,489,321		
Design Engineering, Geotechnical, and Construction Management			10%	\$2,448,932		
Property Acquisition Cost:				\$11,352,663		
Total Conceptual Cost Estimate				\$45,504,471		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
BUCR 9: Total Conceptual Cost Report

Alternative Name	BUCR 9
Problem Description	Flooding within the village of Wheeling
Strategy	Provide storage volume within the Alington Club and implement channel improvements through the reach.
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	91960	\$13.88	1,276,404.80	\$1,187,037	\$305,639	
Channel treatment: Excavation	yd3	447135	\$10.68	4,775,401.80	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	429765	\$11.75	5,049,738.75	\$0	\$0	
Concrete: Cast in place	yd3	500	\$250.00	\$125,000.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	17370	\$13.88	\$241,095.60	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	17370	\$5.34	\$92,755.80	\$0	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Pipe in earth (county): 36 inches or less	lf	25	\$216.78	\$5,419.50	\$5,040	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Channel treatment: Dumped rock	yd3	42	\$67.28	\$2,825.76	\$2,628	\$677	
Channel treatment: Soil stabilization and vegetative cover	yd2	507	\$13.88	\$7,037.16	\$6,544	\$1,685	
Channel treatment: Excavation	yd3	426	\$10.68	\$4,549.68	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	426	\$11.75	\$5,005.50	\$0	\$0	
maintenance: Small Channel Maintenance (Brush and debris removal)	lf	1142	\$5.00	\$5,710.00	\$5,310	\$1,367	
Land Acquisition: Purchase of Property *	dollar	7600000	\$1.00	7,600,000.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)		\$12,393,545	\$1,952,966	\$309,368
Utility Relocation	4 %	\$495,742		
Mobilization \ General Conditions	5 %	\$619,677		
Subtotal with Percent Allowances		\$13,508,964		
Contingency	30%	\$4,052,689		
Profit	5%	\$878,083		
Probable Construction Cost Estimate		\$18,439,735		
Design Engineering, Geotechnical, and Construction Management	10%	\$1,843,974		
Property Acquisition Cost:		\$7,600,000		
Total Conceptual Cost Estimate		\$30,146,043		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
CYCR 1: Total Conceptual Cost Report

Alternative Name	CYCR1
Problem Description	Flooding
Strategy	Evacuate area upstream of SOO RR tracks and area West of Tristate to provide storage (Smaller Tristate
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	38720	\$13.88	\$537,433.60	\$499,805	\$128,690	
Channel treatment: Excavation	yd3	49600	\$10.68	\$529,728.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	49600	\$11.75	\$582,800.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	4096329	\$1.00	4,096,329.00	\$0	\$0	
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$1,649,962	\$499,805	\$128,690	
Utility Relocation			4 %	\$65,998			
Mobilization \ General Conditions			5%	\$82,498			
Subtotal with Percent Allowances				\$1,798,458			
Contingency			30%	\$539,537			
Profit			5%	\$116,900			
Probable Construction Cost Estimate				\$2,454,895			
Design Engineering, Geotechnical, and Construction Management			10%	\$245,490			
Property Acquisition Cost:				\$4,096,329			
Total Conceptual Cost Estimate				\$7,425,209			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
CYCR 2: Total Conceptual Cost Report

Alternative Name	CYCR2
Problem Description	Overtopping of Belle Plaine Road- Prop 7' x 4' RCBC
Strategy	Replace Culvert
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Demolition: Brick, concrete, or stone construction	ft2	540	\$4.27	\$2,305.80	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	540	\$148.47	\$80,173.80	\$74,560	\$0	
Pipe under pavement (county): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	50	\$608.70	\$30,435.00	\$28,304	\$0	
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$122,430	\$111,713	\$0	
Utility Relocation			4 %	\$4,897			
Mobilization \ General Conditions			5%	\$6,121			
Subtotal with Percent Allowances				\$133,448			
Contingency			30%	\$40,034			
Profit			5%	\$8,674			
Probable Construction Cost Estimate				\$182,157			
Design Engineering, Geotechnical, and Construction Management			10%	\$18,216			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$312,086			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
CYCR 3: Total Conceptual Cost Report

Alternative Name	CYCR3
Problem Description	Flooding
Strategy	Construct floodwall and small stoage basin West of Tollway
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	870	\$587.35	\$510,994.50	\$475,217	\$122,359	
Channel treatment: Sheet piling	yd2	900	\$303.28	\$272,952.00	\$0	\$65,359	
Channel treatment: Soil stabilization and vegetative cover	yd2	18000	\$13.88	\$249,840.00	\$232,347	\$59,825	
Channel treatment: Soil stabilization and vegetative cover	yd2	33880	\$13.88	\$470,254.40	\$437,329	\$112,604	
Demolition: Brick, concrete, or stone construction	ft2	1100	\$4.27	\$4,697.00	\$0	\$0	
Channel treatment: Excavation	yd3	12480	\$10.68	\$133,286.40	\$0	\$0	
Channel treatment: Excavation	yd3	42000	\$10.68	\$448,560.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	870	\$11.75	\$10,222.50	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	42000	\$11.75	\$493,500.00	\$0	\$0	
Pipe under pavement (county): 36 inches or less	lf	1100	\$415.41	\$456,951.00	\$424,957	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1100	\$148.47	\$163,317.00	\$151,882	\$0	
Land Acquisition: Purchase of Property *	dollar	69511	\$1.00	\$69,510.66	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	3796248	\$1.00	\$3,796,247.74	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	16891	\$1.00	\$16,891.09	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$4,014,575	\$2,465,721	\$360,147
Utility Relocation			4 %	\$160,583		
Mobilization \ General Conditions			5 %	\$200,729		
Subtotal with Percent Allowances				\$4,375,887		
Contingency			30%	\$1,312,766		
Profit			5%	\$284,433		
Probable Construction Cost Estimate				\$5,973,085		
Design Engineering, Geotechnical, and Construction Management			10%	\$597,309		
Property Acquisition Cost:				\$3,882,649		
Total Conceptual Cost Estimate				\$13,278,911		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
CYCR 4: Total Conceptual Cost Report

Alternative Name	CYCR4
Problem Description	Cross I-294 and Irving Road discharge into open space west of Tollway (1 - 22' x 6' and
Strategy	Large basin West of the Tristate
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	170000	\$13.88	2,359,600.00	\$2,194,392	\$565,012	
Channel treatment: Excavation	yd3	293500	\$10.68	3,134,580.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	293500	\$11.75	3,448,625.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	10846422	\$1.00	0,846,422.12	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	311249	\$1.00	\$311,249.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Channel treatment: Material to be hauled offsite	yd3	5300	\$11.75	\$62,275.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	7	\$4,757.50	\$33,302.50	\$30,971	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	7	\$4,757.50	\$33,302.50	\$30,971	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	50	\$148.47	\$7,423.50	\$6,904	\$0	
Pipe in tunnel: 72 to 84 inches	lf	1650	\$2,669.75	4,405,087.50	\$4,096,664	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	275	\$661.03	\$181,783.25	\$169,056	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$14,465,979	\$7,272,945	\$565,012
Utility Relocation			4 %	\$578,639		
Mobilization \ General Conditions			5%	\$723,299		
Subtotal with Percent Allowances				\$15,767,917		
Contingency			30%	\$4,730,375		
Profit			5%	\$1,024,915		
Probable Construction Cost Estimate				\$21,523,207		
Design Engineering, Geotechnical, and Construction Management			10%	\$2,152,321		
Property Acquisition Cost:				\$11,157,671		
Total Conceptual Cost Estimate				\$42,671,156		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 1: Total Conceptual Cost Report

Alternative Name	DPR1
Problem Description	Des Plaines River overbank flooding
Strategy	Floodwall on west side of Des Plaines River from Dundee Rd to Hintz Ave
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Pump Station: 10ac-ft per day interior drainage	each	2	\$800,000.00	1,600,000.00	\$1,487,976	\$0	
Pipe in earth (county): 36 inches or less	lf	5940	\$216.78	1,287,673.20	\$1,197,516	\$0	
Outlet structures (Headwall): 36 inches or less	each	19	\$2,600.34	\$49,406.46	\$45,947	\$0	
Land Acquisition: Permanent Easement *	dollar	202291	\$1.00	\$202,290.76	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	121374	\$1.00	\$121,374.45	\$0	\$0	
Channel treatment: Reinforced one sided concrete wall	yd3	2908	\$587.35	1,708,248.74	\$1,588,645	\$409,045	
Channel treatment: Material to be hauled offsite	yd3	2908	\$11.75	\$34,173.70	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	66267	\$13.88	\$919,781.80	\$855,383	\$220,244	
Channel treatment: Excavation	yd3	37109	\$10.68	\$396,327.32	\$0	\$0	
Channel treatment: Sheet piling	yd2	3313	\$303.28	1,004,857.62	\$0	\$240,616	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$7,000,469	\$5,175,467	\$869,905	
Utility Relocation			4 %	\$280,019			
Mobilization \ General Conditions			5 %	\$350,023			
Subtotal with Percent Allowances				\$7,630,511			
Contingency			30%	\$2,289,153			
Profit			5%	\$495,983			
Probable Construction Cost Estimate				\$10,415,648			
Design Engineering, Geotechnical, and Construction Management			10%	\$1,041,565			
Property Acquisition Cost:				\$323,665			
Total Conceptual Cost Estimate				\$17,826,250			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 2A: Total Conceptual Cost Report

Alternative Name	DPR2a
Problem Description	Regional roadway flooding
Strategy	Raise Oakton Street, Central, Rand, and Algonquin Roads, and 2 USACE concept reservoirs.
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	941864	\$13.88	3,073,072.32	\$12,157,757	\$3,130,382	
Channel treatment: Soil stabilization and vegetative cover	yd2	1556480	\$13.88	1,603,942.40	\$20,091,336	\$5,173,121	
Channel treatment: Soil stabilization and vegetative cover	yd2	2447	\$13.88	\$33,964.36	\$31,586	\$8,133	
Channel treatment: Soil stabilization and vegetative cover	yd2	333	\$13.88	\$4,622.04	\$4,298	\$1,107	
Channel treatment: Soil stabilization and vegetative cover	yd2	3913	\$13.88	\$54,312.44	\$50,510	\$13,005	
Channel treatment: Vegetative cover only	yd2	2447	\$8.54	\$20,897.38	\$19,434	\$5,004	
Channel treatment: Vegetative cover only	yd2	333	\$8.54	\$2,843.82	\$2,645	\$681	
Channel treatment: Vegetative cover only	yd2	3913	\$8.54	\$33,417.02	\$31,077	\$8,002	
Demolition: Brick, concrete, or stone construction	ft2	180000	\$4.27	\$768,600.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	64500	\$4.27	\$275,415.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	105000	\$4.27	\$448,350.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	128035	\$4.27	\$546,709.45	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	5000	\$13.88	\$69,400.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	110000	\$13.88	\$1,526,800.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	21400	\$13.88	\$297,032.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	5867	\$13.88	\$81,433.96	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	10888	\$13.88	\$151,125.44	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	9382	\$13.88	\$130,222.16	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	5000	\$5.34	\$26,700.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	110000	\$5.34	\$587,400.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	21400	\$5.34	\$114,276.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	5867	\$5.34	\$31,329.78	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	10888	\$5.34	\$58,141.92	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	9382	\$5.34	\$50,099.88	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	21400	\$10.68	\$228,552.00	\$0	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name	DPR2a
Problem Description	Regional roadway flooding
Strategy	Raise Oakton Street, Central, Rand, and Algonquin Roads, and 2 USACE concept reservoirs.
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Embankment construction, grading and restoration: Material hauled from offsite	yd3	5867	\$10.68	\$62,659.56	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	10888	\$10.68	\$116,283.84	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	9382	\$10.68	\$100,199.76	\$0	\$0	
Channel treatment: Additional fill	yd3	313955	\$13.88	4,357,695.40	\$0	\$0	
Channel treatment: Additional fill	yd3	519493	\$13.88	7,210,562.84	\$0	\$0	
Channel treatment: Compaction	yd3	313955	\$7.48	2,348,383.40	\$0	\$0	
Channel treatment: Compaction	yd3	519493	\$7.48	3,885,807.64	\$0	\$0	
Channel treatment: Excavation	yd3	3529973	\$10.68	7,700,111.64	\$0	\$0	
Channel treatment: Excavation	yd3	3929920	\$10.68	1,971,545.60	\$0	\$0	
Pipe in earth (county): 36 inches or less	lf	80	\$216.78	\$17,342.40	\$16,128	\$0	
Pipe in earth (county): 36 inches or less	lf	80	\$216.78	\$17,342.40	\$16,128	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	7500	\$148.47	1,113,525.00	\$1,035,561	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	2671	\$148.47	\$396,563.37	\$368,798	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	4375	\$148.47	\$649,556.25	\$604,077	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	6310	\$148.47	\$936,845.70	\$871,252	\$0	
Concrete: Cast in place	yd3	103	\$250.00	\$25,750.00	\$0	\$0	
Concrete: Cast in place	yd3	130	\$250.00	\$32,500.00	\$0	\$0	
Concrete: Cast in place	yd3	500	\$250.00	\$125,000.00	\$0	\$0	
Concrete: Cast in place	yd3	194	\$250.00	\$48,500.00	\$0	\$0	
Concrete: Cast in place	yd3	324	\$250.00	\$81,000.00	\$0	\$0	
Concrete: Cast in place	yd3	292	\$250.00	\$73,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	56070000	\$1.00	6,070,000.00	\$0	\$0	Forest Preserve property license
Land Acquisition: Purchase of Property *	dollar	50340000	\$1.00	0,340,000.00	\$0	\$0	Forest Preserve property license
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name	DPR2a
Problem Description	Regional roadway flooding
Strategy	Raise Oakton Street, Central, Rand, and Algonquin Roads, and 2 USACE concept reservoirs.
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$143,088,834	\$36,788,564	\$8,339,435	
Utility Relocation			4 %	\$5,723,553			
Mobilization \ General Conditions			5%	\$7,154,442			
Subtotal with Percent Allowances				\$155,966,829			
Contingency			30%	\$46,790,049			
Profit			5%	\$10,137,844			
Probable Construction Cost Estimate				\$212,894,722			
Design Engineering, Geotechnical, and Construction Management			10%	\$21,289,472			
Property Acquisition Cost:				106,410,000			
Total Conceptual Cost Estimate				\$385,722,193			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 2B: Total Conceptual Cost Report

Alternative Name	DPR2b
Problem Description	Regional road flooding of Central, Rand, Algonquin Roads, Oakton Street
Strategy	Raise Central, Rand, Algonquin Roads and Oakton Street
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	2447	\$13.88	\$33,964.36	\$31,586	\$8,133	
Channel treatment: Soil stabilization and vegetative cover	yd2	333	\$13.88	\$4,622.04	\$4,298	\$1,107	
Channel treatment: Soil stabilization and vegetative cover	yd2	3913	\$13.88	\$54,312.44	\$50,510	\$13,005	
Channel treatment: Vegetative cover only	yd2	2447	\$8.54	\$20,897.38	\$19,434	\$5,004	
Channel treatment: Vegetative cover only	yd2	333	\$8.54	\$2,843.82	\$2,645	\$681	
Channel treatment: Vegetative cover only	yd2	3913	\$8.54	\$33,417.02	\$31,077	\$8,002	
Demolition: Brick, concrete, or stone construction	ft2	180000	\$4.27	\$768,600.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	64500	\$4.27	\$275,415.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	105000	\$4.27	\$448,350.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	128035	\$4.27	\$546,709.45	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	21400	\$13.88	\$297,032.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	5867	\$13.88	\$81,433.96	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	10888	\$13.88	\$151,125.44	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	9382	\$13.88	\$130,222.16	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	21400	\$5.34	\$114,276.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	5867	\$5.34	\$31,329.78	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	10888	\$5.34	\$58,141.92	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	9382	\$5.34	\$50,099.88	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	21400	\$10.68	\$228,552.00	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	5867	\$10.68	\$62,659.56	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	10888	\$10.68	\$116,283.84	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	9382	\$10.68	\$100,199.76	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	7500	\$148.47	\$1,113,525.00	\$1,035,561	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	2671	\$148.47	\$396,563.37	\$368,798	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	4375	\$148.47	\$649,556.25	\$604,077	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name DPR2b
Problem Description Regional road flooding of Central, Rand, Algonquin Roads, Oakton Street
Strategy Raise Central, Rand, Algonquin Roads and Oakton Street
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	6310	\$148.47	\$936,845.70	\$871,252	\$0	
Concrete: Cast in place	yd3	500	\$250.00	\$125,000.00	\$0	\$0	
Concrete: Cast in place	yd3	194	\$250.00	\$48,500.00	\$0	\$0	
Concrete: Cast in place	yd3	324	\$250.00	\$81,000.00	\$0	\$0	
Concrete: Cast in place	yd3	292	\$250.00	\$73,000.00	\$0	\$0	
Bridge: Bridge Demolition-Concrete Removal	cf	107520	\$25.00	2,688,000.00	\$0	\$0	Bridge: Waterway opening modification

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$9,722,478	\$3,019,239	\$35,932	
Utility Relocation			4 %	\$388,899			
Mobilization \ General Conditions			5%	\$486,124			
Subtotal with Percent Allowances				\$10,597,501			
Contingency			30%	\$3,179,250			
Profit			5%	\$688,838			
Probable Construction Cost Estimate				\$14,465,589			
Design Engineering, Geotechnical, and Construction Management			10%	\$1,446,559			
Property Acquisition Cost:					\$0		
Total Conceptual Cost Estimate				\$18,967,319			

Additional Comments

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 3A: Total Conceptual Cost Report

Alternative Name	DPR3a
Problem Description	Des Plaines Riveroverbank flooding
Strategy	City of Des Plaines Regional Floodwall
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	4454	\$587.35	2,616,056.90	\$2,432,893	\$626,422	
Channel treatment: Reinforced one sided concrete wall	yd3	10741	\$587.35	6,308,726.35	\$5,867,019	\$1,510,641	
Channel treatment: Sheet piling	yd2	7222	\$303.28	2,190,288.16	\$0	\$524,470	
Channel treatment: Sheet piling	yd2	22222	\$303.28	6,739,488.16	\$0	\$1,613,788	
Channel treatment: Soil stabilization and vegetative cover	yd2	1558480	\$13.88	1,631,702.40	\$20,117,152	\$5,179,768	
Channel treatment: Soil stabilization and vegetative cover	yd2	941864	\$13.88	3,073,072.32	\$12,157,757	\$3,130,382	
Channel treatment: Soil stabilization and vegetative cover	yd2	72222	\$13.88	1,002,441.36	\$932,255	\$240,037	
Channel treatment: Soil stabilization and vegetative cover	yd2	222222	\$13.88	3,084,441.36	\$2,868,483	\$738,578	
Channel treatment: Vegetative cover only	yd2	406550	\$8.54	3,471,937.00	\$3,228,848	\$831,364	
Embankment construction, grading and restoration: Additional fill	yd3	48359	\$13.88	\$671,222.92	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	110000	\$13.88	1,526,800.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	5000	\$13.88	\$69,400.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	48359	\$5.34	\$258,237.06	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	110000	\$5.34	\$587,400.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	5000	\$5.34	\$26,700.00	\$0	\$0	
Channel treatment: Additional fill	yd3	519493	\$13.88	7,210,562.84	\$0	\$0	
Channel treatment: Additional fill	yd3	313955	\$13.88	4,357,695.40	\$0	\$0	
Channel treatment: Compaction	yd3	1070285	\$7.48	8,005,731.80	\$0	\$0	
Channel treatment: Compaction	yd3	519493	\$7.48	3,885,807.64	\$0	\$0	
Channel treatment: Compaction	yd3	313955	\$7.48	2,348,383.40	\$0	\$0	
Channel treatment: Excavation	yd3	3929920	\$10.68	1,971,545.60	\$0	\$0	
Channel treatment: Excavation	yd3	3529973	\$10.68	7,700,111.64	\$0	\$0	
Channel treatment: Excavation	yd3	84741	\$10.68	\$905,033.88	\$0	\$0	
Channel treatment: Excavation	yd3	154074	\$10.68	1,645,510.32	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	2300	\$11.75	\$27,025.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	4454	\$11.75	\$52,334.50	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	10741	\$11.75	\$126,206.75	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name DPR3a
Problem Description Des Plaines Riveroverbank flooding
Strategy City of Des Plaines Regional Floodwall
District Minimum Met
Criteria for Funding: Met
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Outlet structures (Headwall): 36 inches or less	each	30	\$2,600.34	\$78,010.20	\$72,548	\$0	
Outlet structures (Headwall): 36 inches or less	each	43	\$2,600.34	\$111,814.62	\$103,986	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (county): 36 inches or less	lf	293	\$216.78	\$63,516.54	\$59,069	\$0	
Pipe in earth (county): 36 inches or less	lf	80	\$216.78	\$17,342.40	\$16,128	\$0	
Pipe in earth (county): 36 inches or less	lf	80	\$216.78	\$17,342.40	\$16,128	\$0	
Pipe in earth (county): 36 inches or less	lf	5510	\$216.78	\$1,194,457.80	\$1,110,827	\$0	
Pipe in earth (county): 36 inches or less	lf	8780	\$216.78	\$1,903,328.40	\$1,770,066	\$0	
Concrete: Cast in place	yd3	130	\$250.00	\$32,500.00	\$0	\$0	
Concrete: Cast in place	yd3	103	\$250.00	\$25,750.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	50340000	\$1.00	\$0,340,000.00	\$0	\$0	Forest Preserve property license
Land Acquisition: Purchase of Property *	dollar	56070000	\$1.00	\$6,070,000.00	\$0	\$0	Forest Preserve property license
Land Acquisition: Permanent Easement *	dollar	26415000	\$1.00	\$6,415,000.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	222848	\$1.00	\$222,847.72	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	143003	\$1.00	\$143,002.52	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	525826	\$1.00	\$525,826.45	\$0	\$0	LICENSE
Land Acquisition: Temporary Easement *	dollar	274500	\$1.00	\$274,500.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	133709	\$1.00	\$133,708.63	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	85802	\$1.00	\$85,801.51	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pump Station: 10ac-ft per day interior drainage	each	3	\$800,000.00	\$2,400,000.00	\$2,231,963	\$0	
Pump Station: 10ac-ft per day interior drainage	each	9	\$800,000.00	\$7,200,000.00	\$6,695,890	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$186,956,955	\$61,930,675	\$14,395,450	
Utility Relocation				4 % \$7,478,278			
Mobilization \ General Conditions				5 % \$9,347,848			
Subtotal with Percent Allowances				\$203,783,081			
Contingency				30% \$61,134,924			
Profit				5% \$13,245,900			
Probable Construction Cost Estimate				\$278,163,906			
Design Engineering, Geotechnical, and Construction Management				10% \$27,816,391			
Property Acquisition Cost:				134,210,687			
Total Conceptual Cost Estimate				\$516,517,108			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 4: Total Conceptual Cost Report

Alternative Name	DPR4
Problem Description	Des Plaines River overbank flooding
Strategy	Raise Higgins and River Roads, Glen Lake Ave
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	1550	\$13.88	\$21,514.00	\$20,008	\$5,152	
Channel treatment: Vegetative cover only	yd2	1550	\$8.54	\$13,237.00	\$12,310	\$3,170	
Concrete: Cast in place	yd3	310	\$250.00	\$77,500.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	422500	\$4.27	\$1,804,075.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	18973	\$13.88	\$263,345.24	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	18973	\$5.34	\$101,315.82	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	18973	\$10.68	\$202,631.64	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	13646	\$148.47	\$2,025,947.39	\$1,884,100	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$4,509,566	\$1,916,418	\$8,322	
Utility Relocation			4 %	\$180,383			
Mobilization \ General Conditions			5%	\$225,478			
Subtotal with Percent Allowances				\$4,915,427			
Contingency			30%	\$1,474,628			
Profit			5%	\$319,503			
Probable Construction Cost Estimate				\$6,709,558			
Design Engineering, Geotechnical, and Construction Management			10%	\$670,956			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$9,305,254			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 5: Total Conceptual Cost Report

Alternative Name	DPR5
Problem Description	DPR overbank flooding between Irving Park Road and Belmont Avenue
Strategy	Raise Irving Park Rd, Floodwall west side of river from Irving Park Rd to Belmont Ave.
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	867	\$13.88	\$12,033.96	\$11,191	\$2,882	
Channel treatment: Vegetative cover only	yd2	867	\$8.54	\$7,404.18	\$6,886	\$1,773	
Demolition: Brick, concrete, or stone construction	ft2	31200	\$4.27	\$133,224.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	2891	\$13.88	\$40,127.08	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	2891	\$5.34	\$15,437.94	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	2891	\$10.68	\$30,875.88	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1300	\$148.47	\$193,011.00	\$179,497	\$0	
Channel treatment: Reinforced one sided concrete wall	yd3	4848	\$587.35	\$2,847,472.80	\$2,648,106	\$681,835	
Channel treatment: Material to be hauled offsite	yd3	4848	\$11.75	\$56,964.00	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	29333	\$13.88	\$407,142.04	\$378,636	\$97,491	
Channel treatment: Excavation	yd3	99733	\$10.68	\$1,065,148.44	\$0	\$0	
Channel treatment: Sheet piling	yd2	7333	\$303.28	\$2,223,952.24	\$0	\$532,531	
Pump Station: 10ac-ft per day interior drainage	each	4	\$800,000.00	\$3,200,000.00	\$2,975,951	\$0	
Pipe in earth (county): 36 inches or less	lf	1100	\$216.78	\$238,458.00	\$221,762	\$0	
Outlet structures (Headwall): 36 inches or less	each	4	\$2,600.34	\$10,401.36	\$9,673	\$0	
Land Acquisition: Purchase of Property *	dollar	225000	\$1.00	\$225,000.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	682500	\$1.00	\$682,500.00	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	650	\$13.88	\$9,022.00	\$8,390	\$2,160	
Demolition: Brick, concrete, or stone construction	ft2	117000	\$4.27	\$499,590.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	2220	\$13.88	\$30,813.60	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	2220	\$5.34	\$11,854.80	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	2220	\$10.68	\$23,709.60	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	4875	\$148.47	\$723,791.25	\$673,115	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name	DPR5
Problem Description	DPR overbank flooding between Irving Park Road and Belmont Avenue
Strategy	Raise Irving Park Rd, Floodwall west side of river from Irving Park Rd to Belmont Ave.
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$11,780,434	\$7,113,208	\$1,318,672	
Utility Relocation			4 %	\$471,217			
Mobilization \ General Conditions			5%	\$589,022			
Subtotal with Percent Allowances				\$12,840,673			
Contingency			30%	\$3,852,202			
Profit			5%	\$834,644			
Probable Construction Cost Estimate				\$17,527,519			
Design Engineering, Geotechnical, and Construction Management			10%	\$1,752,752			
Property Acquisition Cost:				\$907,500			
Total Conceptual Cost Estimate				\$28,619,651			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 6D: Total Conceptual Cost Report

Alternative Name	DPR6D
Problem Description	DPR overbank flooding
Strategy	Raise 1st and Grand Ave floodwall east and west of river, enlarge Grand Ave opening.
District Minimum	Not Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	1333	\$587.35	\$782,937.55	\$728,120	\$187,476	
Channel treatment: Reinforced one sided concrete wall	yd3	4419	\$587.35	2,595,499.65	\$2,413,775	\$621,499	
Channel treatment: Sheet piling	yd2	3379	\$303.28	1,024,783.12	\$0	\$245,387	
Channel treatment: Sheet piling	yd2	8373	\$303.28	2,539,363.44	\$0	\$608,057	
Channel treatment: Soil stabilization and vegetative cover	yd2	33789	\$13.88	\$468,991.32	\$436,155	\$112,301	
Channel treatment: Soil stabilization and vegetative cover	yd2	83733	\$13.88	1,162,214.04	\$1,080,841	\$278,295	
Channel treatment: Soil stabilization and vegetative cover	yd2	1404	\$13.88	\$19,487.52	\$18,123	\$4,666	
Demolition: Brick, concrete, or stone construction	ft2	84000	\$4.27	\$358,680.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	63000	\$4.27	\$269,010.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	15556	\$13.88	\$215,917.28	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	15556	\$5.34	\$83,069.04	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	3864	\$5.34	\$20,633.76	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	15556	\$10.68	\$166,138.08	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	3864	\$10.68	\$41,267.52	\$0	\$0	
Channel treatment: Excavation	yd3	11263	\$10.68	\$120,288.84	\$0	\$0	
Channel treatment: Excavation	yd3	70336	\$10.68	\$751,188.48	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1333	\$11.75	\$15,662.75	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	4419	\$11.75	\$51,923.25	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	4667	\$11.75	\$54,837.25	\$0	\$0	
Outlet structures (Headwall): 36 inches or less	each	2	\$2,600.34	\$5,200.68	\$4,837	\$0	
Outlet structures (Headwall): 36 inches or less	each	4	\$2,600.34	\$10,401.36	\$9,673	\$0	
Pipe in earth (county): 36 inches or less	lf	600	\$216.78	\$130,068.00	\$120,961	\$0	
Pipe in earth (county): 36 inches or less	lf	1200	\$216.78	\$260,136.00	\$241,923	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	4375	\$148.47	\$649,556.25	\$604,077	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	3000	\$148.47	\$445,410.00	\$414,224	\$0	
Concrete: Cast in place	yd3	260	\$250.00	\$65,000.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	2	\$800,000.00	1,600,000.00	\$1,487,976	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name DPR6D
Problem Description DPR overbank flooding
Strategy Raise 1st and Grand Ave floodwall east and west of river, enlarge Grand Ave opening.
District Minimum Not Met
Criteria for Funding:
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Pump Station: 10ac-ft per day interior drainage	each	4	\$800,000.00	3,200,000.00	\$2,975,951	\$0	
Bridge: Bridge Demolition-Concrete Removal	cf	129499	\$25.00	3,237,480.00	\$0	\$0	Bridge: Enlarge waterway opening

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$20,345,145	\$10,536,636	\$2,057,681	
Utility Relocation			4 %	\$813,806			
Mobilization \ General Conditions			5 %	\$1,017,257			
Subtotal with Percent Allowances				\$22,176,208			
Contingency			30%	\$6,652,862			
Profit			5%	\$1,441,454			
Probable Construction Cost Estimate				\$30,270,524			
Design Engineering, Geotechnical, and Construction Management			10%	\$3,027,052			
Property Acquisition Cost:					\$0		
Total Conceptual Cost Estimate				\$45,891,893			

Additional Comments

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 8A: Total Conceptual Cost Report

Alternative Name	DPR8a
Problem Description	Regional roadway flooding
Strategy	Raise and widen waterway opening of Chicago Avenue
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Concrete: Cast in place	yd3	611	\$250.00	\$152,750.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	148500	\$4.27	\$634,095.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	23375	\$13.88	\$324,445.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	23375	\$5.34	\$124,822.50	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	23375	\$10.68	\$249,645.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	6188	\$148.47	\$918,732.36	\$854,407	\$0	
Bridge: Bridge Demolition-Concrete Removal	cf	136416	\$25.00	\$3,410,400.00	\$0	\$0	Bridge: Enlarge waterway opening
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$5,814,890	\$854,407	\$0	
Utility Relocation			4 %	\$232,596			
Mobilization \ General Conditions			5%	\$290,744			
Subtotal with Percent Allowances				\$6,338,230			
Contingency			30%	\$1,901,469			
Profit			5%	\$411,985			
Probable Construction Cost Estimate				\$8,651,684			
Design Engineering, Geotechnical, and Construction Management			10%	\$865,168			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$10,371,259			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 8B: Total Conceptual Cost Report

Alternative Name	DPR8b
Problem Description	Des Plaines River overbank flooding
Strategy	Floodwall on east side of Des Plaines River north o Lake Street
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	1155	\$587.35	\$678,389.25	\$630,892	\$162,442	
Channel treatment: Material to be hauled offsite	yd3	1155	\$11.75	\$13,571.25	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	23889	\$13.88	\$331,579.32	\$308,364	\$79,398	
Channel treatment: Excavation	yd3	16563	\$10.68	\$176,892.84	\$0	\$0	
Channel treatment: Sheet piling	yd2	1194	\$303.28	\$362,116.32	\$0	\$86,710	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pipe in earth (county): 36 inches or less	lf	50	\$216.78	\$10,839.00	\$10,080	\$0	
Outlet structures (Headwall): 36 inches or less	each	2	\$2,600.34	\$5,200.68	\$4,837	\$0	
Land Acquisition: Permanent Easement *	dollar	111689	\$1.00	\$111,689.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	67033	\$1.00	\$67,033.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$2,378,589	\$1,698,160	\$328,550	
Utility Relocation			4 %	\$95,144			
Mobilization \ General Conditions			5%	\$118,929			
Subtotal with Percent Allowances				\$2,592,662			
Contingency			30%	\$777,798			
Profit			5%	\$168,523			
Probable Construction Cost Estimate				\$3,538,983			
Design Engineering, Geotechnical, and Construction Management			10%	\$353,898			
Property Acquisition Cost:				\$178,722			
Total Conceptual Cost Estimate				\$6,098,313			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 9A: Total Conceptual Cost Report

Alternative Name	DPR9A
Problem Description	Des Plaines River overbank flooding
Strategy	Roosevelt Road and enlarge waterway opening over Des Plaines River
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	596	\$13.88	\$8,272.48	\$7,693	\$1,981	
Channel treatment: Vegetative cover only	yd2	596	\$8.54	\$5,089.84	\$4,733	\$1,219	
Concrete: Cast in place	yd3	132	\$250.00	\$33,000.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	32175	\$4.27	\$137,387.25	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	2979	\$13.88	\$41,348.52	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	2979	\$5.34	\$15,907.86	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	2979	\$10.68	\$31,815.72	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1341	\$148.47	\$199,098.27	\$185,158	\$0	
Bridge: Bridge Demolition-Concrete Removal	cf	88560	\$25.00	2,214,000.00	\$0	\$0	Bridge: Enlarge waterway opening

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$2,685,920	\$197,585	\$3,200	
Utility Relocation			4 %	\$107,437			
Mobilization \ General Conditions			5%	\$134,296			
Subtotal with Percent Allowances				\$2,927,653			
Contingency			30%	\$878,296			
Profit			5%	\$190,297			
Probable Construction Cost Estimate				\$3,996,246			
Design Engineering, Geotechnical, and Construction Management			10%	\$399,625			
Property Acquisition Cost:					\$0		
Total Conceptual Cost Estimate				\$4,596,656			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 10: Total Conceptual Cost Report

Alternative Name	DPR10
Problem Description	Regional road flooding at Cermak Road
Strategy	Raise Cermak Road
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Demolition: Brick, concrete, or stone construction	ft2	20250	\$4.27	\$86,467.50	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	1125	\$13.88	\$15,615.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	1125	\$5.34	\$6,007.50	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	1125	\$10.68	\$12,015.00	\$0	\$0	
Concrete: Cast in place	yd3	49	\$250.00	\$12,325.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	844	\$148.47	\$125,278.99	\$116,508	\$0	
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$257,709	\$116,508	\$0	
Utility Relocation			4 %	\$10,308			
Mobilization \ General Conditions			5%	\$12,885			
Subtotal with Percent Allowances				\$280,903			
Contingency			30%	\$84,271			
Profit			5%	\$18,259			
Probable Construction Cost Estimate				\$383,432			
Design Engineering, Geotechnical, and Construction Management			10%	\$38,343			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$538,283			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 11A: Total Conceptual Cost Report

Alternative Name	DPR11A
Problem Description	Des Plaines River overbank flooding
Strategy	East and west floodwalls, raise 1st and Foster Avenues
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	2217	\$587.35	\$1,302,154.95	\$1,210,984	\$311,804	
Channel treatment: Reinforced one sided concrete wall	yd3	570	\$587.35	\$334,789.50	\$311,349	\$80,166	
Channel treatment: Sheet piling	yd2	3874	\$303.28	\$1,174,906.72	\$0	\$281,335	
Channel treatment: Sheet piling	yd2	722	\$303.28	\$218,968.16	\$0	\$52,433	
Channel treatment: Soil stabilization and vegetative cover	yd2	38744	\$13.88	\$537,766.72	\$500,115	\$128,770	
Channel treatment: Soil stabilization and vegetative cover	yd2	14444	\$13.88	\$200,482.72	\$186,446	\$48,006	
Channel treatment: Soil stabilization and vegetative cover	yd2	2150	\$13.88	\$29,842.00	\$27,753	\$7,146	
Channel treatment: Vegetative cover only	yd2	2150	\$8.54	\$18,361.00	\$17,075	\$4,397	
Demolition: Brick, concrete, or stone construction	ft2	174150	\$4.27	\$743,620.50	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	81000	\$4.27	\$345,870.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	7167	\$13.88	\$99,477.96	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	7500	\$13.88	\$104,100.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	7167	\$5.34	\$38,271.78	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	7500	\$5.34	\$40,050.00	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	7167	\$10.68	\$76,543.56	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	7500	\$10.68	\$80,100.00	\$0	\$0	
Channel treatment: Excavation	yd3	38744	\$10.68	\$413,785.92	\$0	\$0	
Channel treatment: Excavation	yd3	4815	\$10.68	\$51,424.20	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	2217	\$11.75	\$26,049.75	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	570	\$11.75	\$6,697.50	\$0	\$0	
Outlet structures (Headwall): 36 inches or less	each	13	\$2,600.34	\$33,804.42	\$31,438	\$0	
Outlet structures (Headwall): 36 inches or less	each	2	\$2,600.34	\$5,200.68	\$4,837	\$0	
Pipe in earth (county): 36 inches or less	lf	2500	\$216.78	\$541,950.00	\$504,005	\$0	
Pipe in earth (county): 36 inches or less	lf	1100	\$216.78	\$238,458.00	\$221,762	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	6450	\$148.47	\$957,631.50	\$890,583	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	3375	\$148.47	\$501,086.25	\$466,003	\$0	
Concrete: Cast in place	yd3	333	\$250.00	\$83,250.00	\$0	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name DPR11A
Problem Description Des Plaines River overbank flooding
Strategy East and west floodwalls, raise 1st and Foster Avenues
District Minimum Met
Criteria for Funding:
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Land Acquisition: Purchase of Property *	dollar	55500	\$1.00	\$55,500.00	\$0	\$0	License
Land Acquisition: Permanent Easement *	dollar	93543	\$1.00	\$93,543.12	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	44766	\$1.00	\$44,766.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	56126	\$1.00	\$56,125.87	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	13430	\$1.00	\$13,430.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	3	\$800,000.00	2,400,000.00	\$2,231,963	\$0	
Pump Station: 10ac-ft per day interior drainage	each	2	\$800,000.00	1,600,000.00	\$1,487,976	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$12,204,644	\$8,092,288	\$914,057	
Utility Relocation			4 %	\$488,186			
Mobilization \ General Conditions			5 %	\$610,232			
Subtotal with Percent Allowances				\$13,303,062			
Contingency			30%	\$3,990,919			
Profit			5%	\$864,699			
Probable Construction Cost Estimate				\$18,158,679			
Design Engineering, Geotechnical, and Construction Management			10%	\$1,815,868			
Property Acquisition Cost:				\$263,365			
Total Conceptual Cost Estimate				\$29,244,257			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 11B: Total Conceptual Cost Report

Alternative Name	DPR11B
Problem Description	Des Plaines overbank flooding
Strategy	Groveland Avenue Floodwall
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	2217	\$587.35	\$1,302,154.95	\$1,210,984	\$311,804	
Channel treatment: Material to be hauled offsite	yd3	2217	\$11.75	\$26,049.75	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	38744	\$13.88	\$537,766.72	\$500,115	\$128,770	
Channel treatment: Excavation	yd3	38744	\$10.68	\$413,785.92	\$0	\$0	
Channel treatment: Sheet piling	yd2	3874	\$303.28	\$1,174,906.72	\$0	\$281,335	
Pump Station: 10ac-ft per day interior drainage	each	3	\$800,000.00	\$2,400,000.00	\$2,231,963	\$0	
Pipe in earth (county): 36 inches or less	lf	2500	\$216.78	\$541,950.00	\$504,005	\$0	
Outlet structures (Headwall): 36 inches or less	each	13	\$2,600.34	\$33,804.42	\$31,438	\$0	
Land Acquisition: Permanent Easement *	dollar	55500	\$1.00	\$55,500.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	93543	\$1.00	\$93,543.12	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	56126	\$1.00	\$56,125.87	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$6,430,418	\$4,478,505	\$721,909
Utility Relocation			4 %	\$257,217		
Mobilization \ General Conditions			5 %	\$321,521		
Subtotal with Percent Allowances				\$7,009,156		
Contingency			30 %	\$2,102,747		
Profit			5 %	\$455,595		
Probable Construction Cost Estimate				\$9,567,498		
Design Engineering, Geotechnical, and Construction Management			10 %	\$956,750		
Property Acquisition Cost:				\$205,169		
Total Conceptual Cost Estimate				\$15,929,831		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 11C: Total Conceptual Cost Report

Alternative Name	DPR11C
Problem Description	Des Plaines River overbank flooding
Strategy	Groveland Avenue Floodwall
District Minimum	Met
Criteria for Funding:	Yes
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	1702	\$587.35	\$999,669.70	\$929,678	\$239,374	
Channel treatment: Reinforced one sided concrete wall	yd3	2217	\$587.35	\$1,302,154.95	\$1,210,984	\$311,804	
Channel treatment: Reinforced one sided concrete wall	yd3	570	\$587.35	\$334,789.50	\$311,349	\$80,166	
Channel treatment: Sheet piling	yd2	318	\$303.28	\$96,443.04	\$0	\$23,094	
Channel treatment: Sheet piling	yd2	3874	\$303.28	\$1,174,906.72	\$0	\$281,335	
Channel treatment: Sheet piling	yd2	722	\$303.28	\$218,968.16	\$0	\$52,433	
Channel treatment: Soil stabilization and vegetative cover	yd2	733	\$13.88	\$10,174.04	\$9,462	\$2,436	
Channel treatment: Soil stabilization and vegetative cover	yd2	38744	\$13.88	\$537,766.72	\$500,115	\$128,770	
Channel treatment: Soil stabilization and vegetative cover	yd2	14444	\$13.88	\$200,482.72	\$186,446	\$48,006	
Channel treatment: Vegetative cover only	yd2	733	\$8.54	\$6,259.82	\$5,822	\$1,499	
Demolition: Brick, concrete, or stone construction	ft2	66000	\$4.27	\$281,820.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	33750	\$4.27	\$144,112.50	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	2567	\$13.88	\$35,629.96	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	1875	\$13.88	\$26,025.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	2567	\$5.34	\$13,707.78	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	1875	\$5.34	\$10,012.50	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	2567	\$10.68	\$27,415.56	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	1875	\$10.68	\$20,025.00	\$0	\$0	
Channel treatment: Excavation	yd3	38744	\$10.68	\$413,785.92	\$0	\$0	
Channel treatment: Excavation	yd3	4815	\$10.68	\$51,424.20	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	318	\$11.75	\$3,736.50	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	2217	\$11.75	\$26,049.75	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	570	\$11.75	\$6,697.50	\$0	\$0	
Outlet structures (Headwall): 36 inches or less	each	13	\$2,600.34	\$33,804.42	\$31,438	\$0	
Outlet structures (Headwall): 36 inches or less	each	2	\$2,600.34	\$5,200.68	\$4,837	\$0	
Pipe in earth (county): 36 inches or less	lf	2500	\$216.78	\$541,950.00	\$504,005	\$0	
Pipe in earth (county): 36 inches or less	lf	1100	\$216.78	\$238,458.00	\$221,762	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name DPR11C
Problem Description Des Plaines River overbank flooding
Strategy Groveland Avenue Floodwall
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	2750	\$148.47	\$408,292.50	\$379,706	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1406	\$148.47	\$208,748.82	\$194,133	\$0	
Concrete: Cast in place	yd3	139	\$250.00	\$34,750.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	55500	\$1.00	\$55,500.00	\$0	\$0	License
Land Acquisition: Permanent Easement *	dollar	93543	\$1.00	\$93,543.12	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	44766	\$1.00	\$44,766.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	56126	\$1.00	\$56,125.87	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	13430	\$1.00	\$13,430.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	3	\$800,000.00	2,400,000.00	\$2,231,963	\$0	
Pump Station: 10ac-ft per day interior drainage	each	2	\$800,000.00	1,600,000.00	\$1,487,976	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$11,413,262	\$8,209,674	\$1,168,917	
Utility Relocation			4 %	\$456,530			
Mobilization \ General Conditions			5%	\$570,663			
Subtotal with Percent Allowances				\$12,440,456			
Contingency			30%	\$3,732,137			
Profit			5%	\$808,630			
Probable Construction Cost Estimate				\$16,981,222			
Design Engineering, Geotechnical, and Construction Management			10%	\$1,698,122			
Property Acquisition Cost:				\$263,365			
Total Conceptual Cost Estimate				\$28,321,300			

Additional Comments

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 12: Total Conceptual Cost Report

Alternative Name	DPR12
Problem Description	Regional roadway flooding at Ogden Avenue
Strategy	Raise Ogden Avenue
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Concrete: Cast in place	yd3	117	\$250.00	\$29,250.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	40500	\$4.27	\$172,935.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	1125	\$13.88	\$15,615.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	1125	\$5.34	\$6,007.50	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	1125	\$10.68	\$12,015.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1688	\$148.47	\$250,617.36	\$233,070	\$0	
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$486,440	\$233,070	\$0	
Utility Relocation			4 %	\$19,458			
Mobilization \ General Conditions			5%	\$24,322			
Subtotal with Percent Allowances				\$530,219			
Contingency			30%	\$159,066			
Profit			5%	\$34,464			
Probable Construction Cost Estimate				\$723,750			
Design Engineering, Geotechnical, and Construction Management			10%	\$72,375			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$1,029,195			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 13: Total Conceptual Cost Report

Alternative Name	DPR13
Problem Description	Des Plaines River overbank flooding
Strategy	Riverside Lawndale Floodwall
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	1397	\$587.35	\$820,527.95	\$763,078	\$196,478	
Channel treatment: Material to be hauled offsite	yd3	1397	\$11.75	\$16,414.75	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	26467	\$13.88	\$367,361.96	\$341,641	\$87,966	
Channel treatment: Excavation	yd3	22232	\$10.68	\$237,437.76	\$0	\$0	
Channel treatment: Sheet piling	yd2	2647	\$303.28	\$802,782.16	\$0	\$192,228	
Pump Station: 10ac-ft per day interior drainage	each	2	\$800,000.00	\$1,600,000.00	\$1,487,976	\$0	
Pipe in earth (county): 36 inches or less	lf	590	\$216.78	\$127,900.20	\$118,945	\$0	
Outlet structures (Headwall): 36 inches or less	each	2	\$2,600.34	\$5,200.68	\$4,837	\$0	
Land Acquisition: Permanent Easement *	dollar	116586	\$1.00	\$116,586.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	61698	\$1.00	\$61,698.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$3,977,625	\$2,716,477	\$476,672	
Utility Relocation			4 %	\$159,105			
Mobilization \ General Conditions			5 %	\$198,881			
Subtotal with Percent Allowances				\$4,335,612			
Contingency			30 %	\$1,300,684			
Profit			5 %	\$281,815			
Probable Construction Cost Estimate				\$5,918,110			
Design Engineering, Geotechnical, and Construction Management			10 %	\$591,811			
Property Acquisition Cost:				\$178,284			
Total Conceptual Cost Estimate				\$9,881,354			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 14A: Total Conceptual Cost Report

Alternative Name	DPR14A
Problem Description	Des Plaines River overbank flooding
Strategy	Floodwall on west side of Des Plaines River, north of 47th street
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pipe in earth (county): 36 inches or less	lf	200	\$216.78	\$43,356.00	\$40,320	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Land Acquisition: Temporary Easement *	dollar	12450	\$1.00	\$12,450.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	30750	\$1.00	\$30,750.00	\$0	\$0	
Channel treatment: Reinforced one sided concrete wall	yd3	584	\$587.35	\$343,129.87	\$319,106	\$82,163	
Channel treatment: Material to be hauled offsite	yd3	584	\$11.75	\$6,864.35	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	13311	\$13.88	\$184,758.07	\$171,822	\$44,241	
Channel treatment: Excavation	yd3	7454	\$10.68	\$79,610.86	\$0	\$0	
Channel treatment: Sheet piling	yd2	1331	\$303.28	\$403,696.01	\$0	\$96,666	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$1,864,016	\$1,277,654	\$223,070	
Utility Relocation			4 %	\$74,561			
Mobilization \ General Conditions			5 %	\$93,201			
Subtotal with Percent Allowances				\$2,031,777			
Contingency			30%	\$609,533			
Profit			5%	\$132,066			
Probable Construction Cost Estimate				\$2,773,375			
Design Engineering, Geotechnical, and Construction Management			10%	\$277,338			
Property Acquisition Cost:				\$43,200			
Total Conceptual Cost Estimate				\$4,594,637			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 14B: Total Conceptual Cost Report

Alternative Name	DPR14B
Problem Description	Regional roadway flooding
Strategy	Raise road and enlarge waterway opening at 47th Street
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	846	\$13.88	\$11,742.48	\$10,920	\$2,812	
Channel treatment: Vegetative cover only	yd2	846	\$8.54	\$7,224.84	\$6,719	\$1,730	
Demolition: Brick, concrete, or stone construction	ft2	31500	\$4.27	\$134,505.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	4866	\$13.88	\$67,540.08	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	4866	\$5.34	\$25,984.44	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	4866	\$10.68	\$51,968.88	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1313	\$148.47	\$194,941.11	\$181,292	\$0	
Bridge: Bridge Demolition-Concrete Removal	cf	420105	\$25.00	0,502,622.00	\$0	\$0	Bridge: Enlarge waterway opening

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$10,996,529	\$198,932	\$4,542	
Utility Relocation			4 %	\$439,861			
Mobilization \ General Conditions			5%	\$549,826			
Subtotal with Percent Allowances				\$11,986,216			
Contingency			30%	\$3,595,865			
Profit			5%	\$779,104			
Probable Construction Cost Estimate				\$16,361,185			
Design Engineering, Geotechnical, and Construction Management			10%	\$1,636,119			
Property Acquisition Cost:					\$0		
Total Conceptual Cost Estimate				\$18,200,778			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 14C: Total Conceptual Cost Report

Alternative Name DPR14C
Problem Description Des Plaines River overbank flooding
Strategy McCook Levee enhancement
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Sheet piling	yd2	14527	\$303.28	4,405,748.56	\$0	\$1,054,968	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$4,405,749	\$0	\$1,054,968	
Utility Relocation			4 %	\$176,230			
Mobilization \ General Conditions			5%	\$220,287			
Subtotal with Percent Allowances				\$4,802,266			
Contingency			30%	\$1,440,680			
Profit			5%	\$312,147			
Probable Construction Cost Estimate				\$6,555,093			
Design Engineering, Geotechnical, and Construction Management			10%	\$655,509			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$8,265,570			

Additional Comments

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 14D: Total Conceptual Cost Report

Alternative Name	DPR14D
Problem Description	Des Plaines River overbank flooding
Strategy	Floodwall on east side of river from north of 47th Street, storage in Lyons Quarry
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	1315	\$587.35	\$772,365.25	\$718,288	\$184,945	
Channel treatment: Material to be hauled offsite	yd3	1315	\$11.75	\$15,451.25	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	33333	\$13.88	\$462,662.04	\$430,269	\$110,786	
Channel treatment: Excavation	yd3	11111	\$10.68	\$118,665.48	\$0	\$0	
Channel treatment: Sheet piling	yd2	6667	\$303.28	\$2,021,967.76	\$0	\$484,166	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pipe in earth (county): 36 inches or less	lf	250	\$216.78	\$54,195.00	\$50,401	\$0	
Outlet structures (Headwall): 36 inches or less	each	2	\$2,600.34	\$5,200.68	\$4,837	\$0	
Land Acquisition: Permanent Easement *	dollar	103306	\$1.00	\$103,306.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	41322	\$1.00	\$41,322.00	\$0	\$0	
Channel treatment: Additional fill	yd3	521107	\$13.88	\$7,232,965.16	\$0	\$0	
Channel treatment: Compaction	yd3	521107	\$7.48	\$3,897,880.36	\$0	\$0	
Concrete: Cast in place	yd3	7407	\$250.00	\$1,851,750.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	6000	\$4.27	\$25,620.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	6341723	\$13.88	\$8,023,115.24	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	6341723	\$5.34	\$3,864,800.82	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	10	\$4,757.50	\$47,575.00	\$44,244	\$0	
Land Acquisition: Purchase of Property *	dollar	12137010	\$1.00	\$2,137,010.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	104820	\$1.00	\$104,820.00	\$0	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	10	\$4,757.50	\$47,575.00	\$44,244	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	4500	\$661.03	\$2,974,635.00	\$2,766,365	\$0	
Pump Station: 10ac-ft per day interior drainage	each	5	\$800,000.00	\$4,000,000.00	\$3,719,939	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name DPR14D
Problem Description Des Plaines River overbank flooding
Strategy Floodwall on east side of river from north of 47th Street, storage in Lyons Quarry
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$146,216,424	\$8,522,573	\$779,897	
Utility Relocation			4 %	\$5,848,657			
Mobilization \ General Conditions			5%	\$7,310,821			
Subtotal with Percent Allowances				\$159,375,902			
Contingency			30%	\$47,812,771			
Profit			5%	\$10,359,434			
Probable Construction Cost Estimate				\$217,548,107			
Design Engineering, Geotechnical, and Construction Management			10%	\$21,754,811			
Property Acquisition Cost:				\$12,386,458			
Total Conceptual Cost Estimate				\$260,991,845			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 15: Total Conceptual Cost Report

Alternative Name	DPR15
Problem Description	Des Plaines River overbank flooding
Strategy	Floodwall on west side of Des Plaines River north of I-55
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	321	\$587.35	\$188,539.35	\$175,339	\$45,146	
Channel treatment: Material to be hauled offsite	yd3	321	\$11.75	\$3,771.75	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	8133	\$13.88	\$112,886.04	\$104,982	\$27,031	
Channel treatment: Excavation	yd3	2711	\$10.68	\$28,953.48	\$0	\$0	
Channel treatment: Sheet piling	yd2	407	\$303.28	\$123,434.96	\$0	\$29,557	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pipe in earth (county): 36 inches or less	lf	100	\$216.78	\$21,678.00	\$20,160	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Channel treatment: Reinforced one sided concrete wall	yd3	1072	\$587.35	\$629,639.20	\$585,555	\$150,769	
Channel treatment: Material to be hauled offsite	yd3	1072	\$11.75	\$12,596.00	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	24433	\$13.88	\$339,130.04	\$315,386	\$81,206	
Channel treatment: Excavation	yd3	13683	\$10.68	\$146,134.44	\$0	\$0	
Channel treatment: Sheet piling	yd2	1222	\$303.28	\$370,608.16	\$0	\$88,743	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pipe in earth (county): 36 inches or less	lf	100	\$216.78	\$21,678.00	\$20,160	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Channel treatment: Reinforced one sided concrete wall	yd3	3745	\$587.35	\$2,199,625.75	\$2,045,618	\$526,706	
Channel treatment: Material to be hauled offsite	yd3	3745	\$11.75	\$44,003.75	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	77489	\$13.88	\$1,075,547.32	\$1,000,243	\$257,543	
Channel treatment: Excavation	yd3	53726	\$10.68	\$573,793.68	\$0	\$0	
Channel treatment: Sheet piling	yd2	3874	\$303.28	\$1,174,906.72	\$0	\$281,335	
Pump Station: 10ac-ft per day interior drainage	each	2	\$800,000.00	\$1,600,000.00	\$1,487,976	\$0	
Pipe in earth (county): 36 inches or less	lf	250	\$216.78	\$54,195.00	\$50,401	\$0	
Outlet structures (Headwall): 36 inches or less	each	2	\$2,600.34	\$5,200.68	\$4,837	\$0	
Land Acquisition: Permanent Easement *	dollar	15109	\$1.00	\$15,108.79	\$0	\$0	0.25 ac
Land Acquisition: Permanent Easement *	dollar	45388	\$1.00	\$45,388.29	\$0	\$0	0.76 ac
Land Acquisition: Temporary Easement *	dollar	6044	\$1.00	\$6,043.52	\$0	\$0	0.5 ac
Land Acquisition: Temporary Easement *	dollar	18155	\$1.00	\$18,155.32	\$0	\$0	1.51 ac

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name DPR15
Problem Description Des Plaines River overbank flooding
Strategy Floodwall on west side of Des Plaines River north of I-55
District Minimum
Criteria for Funding: Met
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$10,331,523	\$7,303,467	\$1,488,036	
Utility Relocation			4 %	\$413,261			
Mobilization \ General Conditions			5%	\$516,576			
Subtotal with Percent Allowances				\$11,261,360			
Contingency			30%	\$3,378,408			
Profit			5%	\$731,988			
Probable Construction Cost Estimate				\$15,371,757			
Design Engineering, Geotechnical, and Construction Management			10%	\$1,537,176			
Property Acquisition Cost:				\$84,696			
Total Conceptual Cost Estimate				\$25,785,132			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 22: Total Conceptual Cost Report

Alternative Name DPR22
Problem Description Des Plaines River overbank flooding
Strategy Storage at Lyons Quarry
District Minimum Met
Criteria for Funding:
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Additional fill	yd3	521107	\$13.88	7,232,965.16	\$0	\$0	
Channel treatment: Compaction	yd3	521107	\$7.48	3,897,880.36	\$0	\$0	
Concrete: Cast in place	yd3	7407	\$250.00	1,851,750.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	6000	\$4.27	\$25,620.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	6341723	\$13.88	8,023,115.24	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	6341723	\$5.34	3,864,800.82	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	10	\$4,757.50	\$47,575.00	\$44,244	\$0	
Land Acquisition: Purchase of Property *	dollar	12137010	\$1.00	2,137,010.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	104820	\$1.00	\$104,820.00	\$0	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	10	\$4,757.50	\$47,575.00	\$44,244	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	4500	\$661.03	2,974,635.00	\$2,766,365	\$0	
Pump Station: 10ac-ft per day interior drainage	each	5	\$800,000.00	4,000,000.00	\$3,719,939	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$141,965,917	\$6,574,792	\$0
Utility Relocation	4 %			\$5,678,637		
Mobilization \ General Conditions	5 %			\$7,098,296		
Subtotal with Percent Allowances				\$154,742,849		
Contingency	30 %			\$46,422,855		
Profit	5 %			\$10,058,285		
Probable Construction Cost Estimate				\$211,223,989		
Design Engineering, Geotechnical, and Construction Management	10 %			\$21,122,399		
Property Acquisition Cost:				\$12,241,830		
Total Conceptual Cost Estimate				\$251,163,010		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 23: Total Conceptual Cost Report

Alternative Name	DPR23
Problem Description	Des Plaines overbank flooding
Strategy	5 USACE concept reservoirs
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	3690984	\$13.88	1,230,857.92	\$47,643,914	\$12,267,364	
Channel treatment: Vegetative cover only	yd2	1379400	\$8.54	1,780,076.00	\$10,955,290	\$2,820,770	
Channel treatment: Additional fill	yd3	1874048	\$13.88	6,011,786.24	\$0	\$0	
Channel treatment: Compaction	yd3	1874048	\$7.48	4,017,879.04	\$0	\$0	
Channel treatment: Excavation	yd3	5515689	\$10.68	8,907,553.18	\$0	\$0	
Channel treatment: Excavation	yd3	5515689	\$10.68	8,907,553.18	\$0	\$0	
Concrete: Cast in place	yd3	5484	\$250.00	1,371,000.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	174341	\$13.88	2,419,853.08	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	174341	\$5.34	\$930,980.94	\$0	\$0	
Inlet structures (Headwall): 36 inches or less	each	3	\$2,600.34	\$7,801.02	\$7,255	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (county): 36 inches or less	lf	4933	\$216.78	1,069,375.74	\$994,503	\$0	
Pipe in earth (county): Box culvert (51 to 60 ft2)	lf	1	\$472.01	\$472.01	\$439	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	1	\$434.64	\$434.64	\$404	\$0	
Pump Station: 10ac-ft per day interior drainage	each	4	\$800,000.00	3,200,000.00	\$2,975,951	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)	\$229,865,138	\$62,586,605	\$15,088,134
Utility Relocation	4 %	\$9,194,606	
Mobilization \ General Conditions	5%	\$11,493,257	
Subtotal with Percent Allowances	\$250,553,000		
Contingency	30%	\$75,165,900	
Profit	5%	\$16,285,945	
Probable Construction Cost Estimate	\$342,004,846		
Design Engineering, Geotechnical, and Construction Management	10%	\$34,200,485	
Property Acquisition Cost:		\$0	
Total Conceptual Cost Estimate	\$453,880,069		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
DPR 26: Total Conceptual Cost Report

Alternative Name	DPR26
Problem Description	Regional roadway flooding at North Avenue
Strategy	Raise North Avenue
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	30000	\$13.88	\$416,400.00	\$387,246	\$99,708	
Channel treatment: Vegetative cover only	yd2	30000	\$8.54	\$256,200.00	\$238,262	\$61,348	
Concrete: Cast in place	yd3	194	\$250.00	\$48,500.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	12000	\$4.27	\$51,240.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	5867	\$13.88	\$81,433.96	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	5867	\$5.34	\$31,329.78	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	5867	\$10.68	\$62,659.56	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	5000	\$148.47	\$742,350.00	\$690,374	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$1,690,113	\$1,315,882	\$161,056	
Utility Relocation			4 %	\$67,605			
Mobilization \ General Conditions			5%	\$84,506			
Subtotal with Percent Allowances				\$1,842,224			
Contingency			30%	\$552,667			
Profit			5%	\$119,745			
Probable Construction Cost Estimate				\$2,514,635			
Design Engineering, Geotechnical, and Construction Management			10%	\$251,464			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$4,243,036			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FRCR-1 Total Conceptual Cost Report

Alternative Name	FRCR-1
Problem Description	Farmers Creek Overbank Flooding
Strategy	42 inch concrete culvert LMA to Dude Ranch Pond
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Inlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Concrete: Cast in place	yd3	20	\$250.00	\$5,000.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	65	\$148.47	\$9,650.55	\$8,975	\$0	
Pipe under pavement (county): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	80	\$291.54	\$23,323.20	\$21,690	\$0	
Pipe in earth (county): 42 to 66 inches / box culvert (15-27 ft2)	lf	360	\$208.24	\$74,966.40	\$69,718	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	270	\$5.34	\$1,441.80	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	1600	\$4.27	\$6,832.00	\$0	\$0	
Channel treatment: Vegetative cover only	yd2	5600	\$8.54	\$47,824.00	\$44,476	\$11,452	
Channel treatment: Material to be hauled offsite	yd3	20470	\$11.75	\$240,522.50	\$0	\$0	
Channel treatment: Excavation	yd3	20740	\$10.68	\$221,503.20	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	375000	\$1.00	\$375,000.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	62000	\$1.00	\$62,000.00	\$0	\$0	
Pump Station: Small Pump Station with Flap Gate	each	1	\$650,000.00	\$650,000.00	\$362,694	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$1,290,579	\$516,401	\$11,452
Utility Relocation		4 %		\$51,623		
Mobilization \ General Conditions		5%		\$64,529		
Subtotal with Percent Allowances				\$1,406,731		
Contingency		30%		\$422,019		
Profit		5%		\$91,438		
Probable Construction Cost Estimate				\$1,920,187		
Design Engineering, Geotechnical, and Construction Management		10%		\$192,019		
Property Acquisition Cost:				\$437,000		
Total Conceptual Cost Estimate				\$3,077,059		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

**Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FRCR-4 Total Conceptual Cost Report**

Alternative Name FRCR-4
Problem Description Prairie Creek Overbank Flooding
Strategy 500 ft long 48 inch bypass pipe around LGH West
District Minimum Met
Criteria for Funding:
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (county): 42 to 66 inches / box culvert (15-27 ft2)	lf	1000	\$208.24	\$208,240.00	\$193,660	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	500	\$5.34	\$2,670.00	\$0	\$0	
Channel treatment: Vegetative cover only	yd2	1000	\$8.54	\$8,540.00	\$7,942	\$2,045	
Channel treatment: Material to be hauled offsite	yd3	1000	\$11.75	\$11,750.00	\$0	\$0	
Channel treatment: Excavation	yd3	2000	\$10.68	\$21,360.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Inlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Pipe in earth (county): 36 inches or less	lf	500	\$216.78	\$108,390.00	\$100,801	\$0	
Land Acquisition: Temporary Easement *	dollar	25000	\$1.00	\$25,000.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	275000	\$1.00	\$275,000.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	90000	\$11.75	\$1,057,500.00	\$0	\$0	
Channel treatment: Excavation	yd3	90000	\$10.68	\$961,200.00	\$0	\$0	
Concrete: Cast in place	yd3	50	\$250.00	\$12,500.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$3,216,381	\$1,068,925	\$2,045	
Utility Relocation			4 %	\$128,655			
Mobilization \ General Conditions			5%	\$160,819			
Subtotal with Percent Allowances				\$3,505,855			
Contingency			30%	\$1,051,756			
Profit			5%	\$227,881			
Probable Construction Cost Estimate				\$4,785,492			
Design Engineering, Geotechnical, and Construction Management			10%	\$478,549			
Property Acquisition Cost:				\$300,000			
Total Conceptual Cost Estimate				\$6,635,011			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

**Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FRCR-5 Total Conceptual Cost Report**

Alternative Name FRCR-5
Problem Description Prairie Creek Overbank Flooding
Strategy - High School Reservoir
District Minimum Met
Criteria for Funding:
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Vegetative cover only	yd2	43560	\$8.54	\$372,002.40	\$345,957	\$89,077	
Channel treatment: Excavation	yd3	92757	\$10.68	\$990,644.76	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	92757	\$11.75	\$1,089,894.75	\$0	\$0	
Concrete: Cast in place	yd3	5	\$250.00	\$1,250.00	\$0	\$0	
Pipe in earth (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	800	\$434.64	\$347,712.00	\$323,367	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1200	\$148.47	\$178,164.00	\$165,690	\$0	
Land Acquisition: Temporary Easement *	dollar	12000	\$1.00	\$12,000.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	375000	\$1.00	\$375,000.00	\$0	\$0	
Pump Station: Small Pump Station with Flap Gate	each	1	\$650,000.00	\$650,000.00	\$362,694	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$3,629,668	\$1,197,707	\$89,077	
Utility Relocation			4 %	\$145,187			
Mobilization \ General Conditions			5 %	\$181,483			
Subtotal with Percent Allowances				\$3,956,338			
Contingency			30%	\$1,186,901			
Profit			5%	\$257,162			
Probable Construction Cost Estimate				\$5,400,401			
Design Engineering, Geotechnical, and Construction Management			10%	\$540,040			
Property Acquisition Cost:				\$387,000			
Total Conceptual Cost Estimate				\$7,614,226			

Additional Comments

**Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FRCR-7 Total Conceptual Cost Report**

Alternative Name	FRCR-7
Problem Description	Prairie Creek Overbank Flooding
Strategy	4200 ft of 60 inch pipe
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Concrete: Cast in place	yd3	20	\$250.00	\$5,000.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	29403	\$4.27	\$125,550.81	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1225	\$148.47	\$181,875.75	\$169,142	\$0	
Pipe under pavement (county): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1000	\$291.54	\$291,540.00	\$271,128	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	2800	\$5.34	\$14,952.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	2800	\$11.75	\$32,900.00	\$0	\$0	
Channel treatment: Excavation	yd3	5600	\$10.68	\$59,808.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	5000	\$1.00	\$5,000.00	\$0	\$0	
Pipe under pavement (county): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	3200	\$608.70	\$1,947,840.00	\$1,811,461	\$0	
Concrete: Cast in place	yd3	40	\$250.00	\$10,000.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$2,678,982	\$2,260,580	\$0
Utility Relocation			4 %	\$107,159		
Mobilization \ General Conditions			5%	\$133,949		
Subtotal with Percent Allowances				\$2,920,090		
Contingency			30%	\$876,027		
Profit			5%	\$189,806		
Probable Construction Cost Estimate				\$3,985,923		
Design Engineering, Geotechnical, and Construction Management			10%	\$398,592		
Property Acquisition Cost:				\$5,000		
Total Conceptual Cost Estimate				\$6,650,095		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FRCR-8 Total Conceptual Cost Report

Alternative Name	FRCR-8
Problem Description	Prairie Creek Overbank Flooding
Strategy	Channel Improvements between Rancho and Dee = 318 LF = 65 CY based on RAS quantities.
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Demolition: Brick, concrete, or stone construction	ft2	2100	\$4.27	\$8,967.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	50	\$148.47	\$7,423.50	\$6,904	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	164	\$661.03	\$108,408.92	\$100,819	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	350	\$13.88	\$4,858.00	\$4,518	\$1,163	
Channel treatment: Excavation	yd3	65	\$10.68	\$694.20	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	65	\$11.75	\$763.75	\$0	\$0	
Concrete: Cast in place	yd3	15	\$250.00	\$3,750.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	720	\$4.27	\$3,074.40	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	50	\$4.27	\$213.50	\$0	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	14	\$661.03	\$9,254.42	\$8,606	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	14	\$148.47	\$2,078.58	\$1,933	\$0	
Demolition: Brick, concrete, or stone construction	ft2	6736	\$4.27	\$28,762.72	\$0	\$0	
Demolition: Metal construction	ft2	2500	\$2.14	\$5,350.00	\$0	\$0	
Channel treatment: Excavation	yd3	2000	\$10.68	\$21,360.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1500	\$11.75	\$17,625.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	500	\$5.34	\$2,670.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	503	\$148.47	\$74,680.41	\$69,452	\$0	
Pipe under pavement (county): Box culvert (51 to 60 ft2)	lf	1000	\$661.03	\$661,030.00	\$614,748	\$0	
Land Acquisition: Temporary Easement *	dollar	8200	\$1.00	\$8,200.00	\$0	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name	FRCR-8
Problem Description	Prairie Creek Overbank Flooding
Strategy	Channel Improvements between Rancho and Dee = 318 LF = 65 CY based on RAS quantities.
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$960,964	\$806,979	\$1,163	
Utility Relocation			4 %	\$38,439			
Mobilization \ General Conditions			5%	\$48,048			
Subtotal with Percent Allowances				\$1,047,451			
Contingency			30%	\$314,235			
Profit			5%	\$68,084			
Probable Construction Cost Estimate				\$1,429,771			
Design Engineering, Geotechnical, and Construction Management			10%	\$142,977			
Property Acquisition Cost:				\$8,200			
Total Conceptual Cost Estimate				\$2,389,090			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FRCR9: Total Conceptual Cost Report

Alternative Name	FRCR-9
Problem Description	Prairie Creek Overbank Flooding
Strategy	Remove Pipe and Daylight Creek between Parkside and Demolition 4 ft pipe by 218 ft = 872 ft2, Greenwood
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	363	\$13.88	\$5,038.44	\$4,686	\$1,206	
Channel treatment: Excavation	yd3	500	\$10.68	\$5,340.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	500	\$11.75	\$5,875.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	872	\$4.27	\$3,723.44	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	1400	\$4.27	\$5,978.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	58	\$148.47	\$8,611.26	\$8,008	\$0	
Demolition: Metal construction	ft2	180	\$2.14	\$385.20	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	1440	\$4.27	\$6,148.80	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	50	\$148.47	\$7,423.50	\$6,904	\$0	
Demolition: Brick, concrete, or stone construction	ft2	9280	\$4.27	\$39,625.60	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	6450	\$13.88	\$89,526.00	\$83,258	\$21,437	
Channel treatment: Excavation	yd3	1000	\$10.68	\$10,680.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1000	\$11.75	\$11,750.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	1500	\$1.00	\$1,500.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	40000	\$1.00	\$40,000.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (county): 42 to 66 inches / box culvert (15-27 ft2)	lf	1000	\$208.24	\$208,240.00	\$193,660	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	500	\$5.34	\$2,670.00	\$0	\$0	
Channel treatment: Vegetative cover only	yd2	1000	\$8.54	\$8,540.00	\$7,942	\$2,045	
Channel treatment: Material to be hauled offsite	yd3	1000	\$11.75	\$11,750.00	\$0	\$0	
Channel treatment: Excavation	yd3	2000	\$10.68	\$21,360.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Inlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Pipe in earth (county): 36 inches or less	lf	500	\$216.78	\$108,390.00	\$100,801	\$0	
Land Acquisition: Temporary Easement *	dollar	25000	\$1.00	\$25,000.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	275000	\$1.00	\$275,000.00	\$0	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name	FRCR-9
Problem Description	Prairie Creek Overbank Flooding
Strategy	Remove Pipe and Daylight Creek between Parkside and Demolition 4 ft pipe by 218 ft = 872 ft2, Greenwood
District Minimum	Met
Criteria for Funding:	Met
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Material to be hauled offsite	yd3	90000	\$11.75	\$1,057,500.00	\$0	\$0	
Channel treatment: Excavation	yd3	90000	\$10.68	\$961,200.00	\$0	\$0	
Concrete: Cast in place	yd3	50	\$250.00	\$12,500.00	\$0	\$0	
Channel treatment: Dumped rock	yd3	621	\$67.28	\$41,780.88	\$38,856	\$10,005	
Channel treatment: Reinforced one sided concrete wall	yd3	231	\$587.35	\$135,677.85	\$126,178	\$32,488	
Channel treatment: Excavation	yd3	367	\$10.68	\$3,919.56	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	367	\$11.75	\$4,312.25	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	25563	\$1.00	\$25,563.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	5113	\$1.00	\$5,113.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$3,602,176	\$1,336,815	\$67,181	
Utility Relocation			4 %	\$144,087			
Mobilization \ General Conditions			5%	\$180,109			
Subtotal with Percent Allowances				\$3,926,372			
Contingency			30%	\$1,177,912			
Profit			5%	\$255,214			
Probable Construction Cost Estimate				\$5,359,498			
Design Engineering, Geotechnical, and Construction Management			10%	\$535,950			
Property Acquisition Cost:				\$372,176			
Total Conceptual Cost Estimate				\$7,671,620			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FRCR 12: Total Conceptual Cost Report

Alternative Name	FRCR-12
Problem Description	Farmers and Prairie Creek Overbank Flooding
Strategy	FRCR-1 & FRCR-4 & FRCR-7 & FRCR-8 & FRCR-9
District Minimum	Met
Criteria for Funding:	Yes
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Inlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Concrete: Cast in place	yd3	20	\$250.00	\$5,000.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	65	\$148.47	\$9,650.55	\$8,975	\$0	
Pipe under pavement (county): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	80	\$291.54	\$23,323.20	\$21,690	\$0	
Pipe in earth (county): 42 to 66 inches / box culvert (15-27 ft2)	lf	360	\$208.24	\$74,966.40	\$69,718	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	270	\$5.34	\$1,441.80	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	1600	\$4.27	\$6,832.00	\$0	\$0	
Channel treatment: Vegetative cover only	yd2	5600	\$8.54	\$47,824.00	\$44,476	\$11,452	
Channel treatment: Material to be hauled offsite	yd3	20470	\$11.75	\$240,522.50	\$0	\$0	
Channel treatment: Excavation	yd3	20740	\$10.68	\$221,503.20	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	375000	\$1.00	\$375,000.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	62000	\$1.00	\$62,000.00	\$0	\$0	
Pump Station: Small Pump Station with Flap Gate	each	1	\$650,000.00	\$650,000.00	\$362,694	\$0	
Concrete: Cast in place	yd3	20	\$250.00	\$5,000.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	29403	\$4.27	\$125,550.81	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	1	\$4,757.50	\$4,757.50	\$4,424	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1225	\$148.47	\$181,875.75	\$169,142	\$0	
Pipe under pavement (county): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	1000	\$291.54	\$291,540.00	\$271,128	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	2800	\$5.34	\$14,952.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	2800	\$11.75	\$32,900.00	\$0	\$0	
Channel treatment: Excavation	yd3	5600	\$10.68	\$59,808.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	5000	\$1.00	\$5,000.00	\$0	\$0	
Pipe under pavement (county): 72 to 84 inches / box culvert (28 to 38 ft2)	lf	3200	\$608.70	\$1,947,840.00	\$1,811,461	\$0	
Concrete: Cast in place	yd3	40	\$250.00	\$10,000.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	2100	\$4.27	\$8,967.00	\$0	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name FRCR-12
Problem Description Farmers and Prairie Creek Overbank Flooding
Strategy FRCR-1 & FRCR-4 & FRCR-7 & FRCR-8 & FRCR-9
District Minimum
Criteria for Funding: Met
Recommended Yes

					Maint.	Replacement	
	Unit	Quantity	Unit Cost	Base Cost	Cost	Cost	Notes/Issues
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	50	\$148.47	\$7,423.50	\$6,904	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	164	\$661.03	\$108,408.92	\$100,819	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	350	\$13.88	\$4,858.00	\$4,518	\$1,163	
Channel treatment: Excavation	yd3	65	\$10.68	\$694.20	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	65	\$11.75	\$763.75	\$0	\$0	
Concrete: Cast in place	yd3	15	\$250.00	\$3,750.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	720	\$4.27	\$3,074.40	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	50	\$4.27	\$213.50	\$0	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	14	\$661.03	\$9,254.42	\$8,606	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	14	\$148.47	\$2,078.58	\$1,933	\$0	
Demolition: Brick, concrete, or stone construction	ft2	6736	\$4.27	\$28,762.72	\$0	\$0	
Demolition: Metal construction	ft2	2500	\$2.14	\$5,350.00	\$0	\$0	
Channel treatment: Excavation	yd3	2000	\$10.68	\$21,360.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1500	\$11.75	\$17,625.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	500	\$5.34	\$2,670.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	503	\$148.47	\$74,680.41	\$69,452	\$0	
Pipe under pavement (county): Box culvert (51 to 60 ft2)	lf	1000	\$661.03	\$661,030.00	\$614,748	\$0	
Land Acquisition: Temporary Easement *	dollar	8200	\$1.00	\$8,200.00	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	363	\$13.88	\$5,038.44	\$4,686	\$1,206	
Channel treatment: Excavation	yd3	500	\$10.68	\$5,340.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	500	\$11.75	\$5,875.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	2272	\$4.27	\$9,701.44	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	58	\$148.47	\$8,611.26	\$8,008	\$0	
Demolition: Metal construction	ft2	180	\$2.14	\$385.20	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	1440	\$4.27	\$6,148.80	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	50	\$148.47	\$7,423.50	\$6,904	\$0	
Demolition: Brick, concrete, or stone construction	ft2	9280	\$4.27	\$39,625.60	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	6450	\$13.88	\$89,526.00	\$83,258	\$21,437	
Channel treatment: Excavation	yd3	1000	\$10.68	\$10,680.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1000	\$11.75	\$11,750.00	\$0	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name FRCR-12
Problem Description Farmers and Prairie Creek Overbank Flooding
Strategy FRCR-1 & FRCR-4 & FRCR-7 & FRCR-8 & FRCR-9
District Minimum
Criteria for Funding: Met
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Land Acquisition: Temporary Easement *	dollar	1500	\$1.00	\$1,500.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	40000	\$1.00	\$40,000.00	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe in earth (county): 42 to 66 inches / box culvert (15-27 ft2)	lf	1000	\$208.24	\$208,240.00	\$193,660	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	500	\$5.34	\$2,670.00	\$0	\$0	
Channel treatment: Vegetative cover only	yd2	1000	\$8.54	\$8,540.00	\$7,942	\$2,045	
Channel treatment: Material to be hauled offsite	yd3	1000	\$11.75	\$11,750.00	\$0	\$0	
Channel treatment: Excavation	yd3	2000	\$10.68	\$21,360.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Inlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Pipe in earth (county): 36 inches or less	lf	500	\$216.78	\$108,390.00	\$100,801	\$0	
Land Acquisition: Temporary Easement *	dollar	25000	\$1.00	\$25,000.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	275000	\$1.00	\$275,000.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	90000	\$11.75	\$1,057,500.00	\$0	\$0	
Channel treatment: Excavation	yd3	90000	\$10.68	\$961,200.00	\$0	\$0	
Concrete: Cast in place	yd3	50	\$250.00	\$12,500.00	\$0	\$0	
Channel treatment: Dumped rock	yd3	621	\$67.28	\$41,780.88	\$38,856	\$10,005	
Channel treatment: Reinforced one sided concrete wall	yd3	231	\$587.35	\$135,677.85	\$126,178	\$32,488	
Channel treatment: Excavation	yd3	367	\$10.68	\$3,919.56	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	367	\$11.75	\$4,312.25	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	25563	\$1.00	\$25,563.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	5113	\$1.00	\$5,113.00	\$0	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name FRCR-12
Problem Description Farmers and Prairie Creek Overbank Flooding
Strategy FRCR-1 & FRCR-4 & FRCR-7 & FRCR-8 & FRCR-9
District Minimum Met
Criteria for Funding: Met
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$8,532,701	\$4,920,774	\$79,796	
Utility Relocation			4 %	\$341,308			
Mobilization \ General Conditions			5%	\$426,635			
Subtotal with Percent Allowances				\$9,300,644			
Contingency			30%	\$2,790,193			
Profit			5%	\$604,542			
Probable Construction Cost Estimate				\$12,695,379			
Design Engineering, Geotechnical, and Construction Management			10%	\$1,269,538			
Property Acquisition Cost:				\$822,376			
Total Conceptual Cost Estimate				\$19,787,864			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
FHDT 1: Total Conceptual Cost Report

Alternative Name FHDT1
Problem Description River Road Flooding
Strategy Raise River Road
District Minimum Met
Criteria for Funding:
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	11250	\$13.88	\$156,150.00	\$145,217	\$37,391	
Channel treatment: Vegetative cover only	yd2	11250	\$8.54	\$96,075.00	\$89,348	\$23,005	
Channel treatment: Dumped rock	yd3	6000	\$67.28	\$403,680.00	\$375,416	\$96,662	
Concrete: Cast in place	yd3	800	\$250.00	\$200,000.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	45200	\$4.27	\$193,004.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	3200	\$13.88	\$44,416.00	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	3200	\$5.34	\$17,088.00	\$0	\$0	
Inlet structures (Headwall): 36 inches or less	each	10	\$2,600.34	\$26,003.40	\$24,183	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe under pavement (county): 36 inches or less	lf	750	\$415.41	\$311,557.50	\$289,744	\$0	
Pipe under pavement (county): Box culvert (51 to 60 ft2)	lf	120	\$661.03	\$79,323.60	\$73,770	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$1,536,813	\$1,006,527	\$157,058	
Utility Relocation			4 %	\$61,473			
Mobilization \ General Conditions			5%	\$76,841			
Subtotal with Percent Allowances				\$1,675,126			
Contingency			30%	\$502,538			
Profit			5%	\$108,883			
Probable Construction Cost Estimate				\$2,286,546			
Design Engineering, Geotechnical, and Construction Management			10%	\$228,655			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$3,678,786			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
FHDT 2: Total Conceptual Cost Report

Alternative Name	FHDT2
Problem Description	River Road and residential flooding
Strategy	Floodwal east of River Road with 2' freeboard, 200 cfs pump station
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	663	\$587.35	\$389,413.05	\$362,148	\$93,246	
Channel treatment: Material to be hauled offsite	yd3	663	\$11.75	\$7,790.25	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	12556	\$13.88	\$174,277.28	\$162,075	\$41,731	
Channel treatment: Excavation	yd3	10547	\$10.68	\$112,641.96	\$0	\$0	
Channel treatment: Sheet piling	yd2	628	\$303.28	\$190,459.84	\$0	\$45,606	
Pump Station: 200 cfs Pump Station with Flap Gate	each	1	\$2,900,000.00	2,900,000.00	\$1,618,173	\$0	
Pipe in earth (county): 36 inches or less	lf	100	\$216.78	\$21,678.00	\$20,160	\$0	
Land Acquisition: Purchase of Property *	dollar	8322	\$1.00	\$8,322.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	5642	\$1.00	\$5,642.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$3,796,260	\$2,162,557	\$180,583	
Utility Relocation			4 %	\$151,850			
Mobilization \ General Conditions			5%	\$189,813			
Subtotal with Percent Allowances				\$4,137,924			
Contingency			30%	\$1,241,377			
Profit			5%	\$268,965			
Probable Construction Cost Estimate				\$5,648,266			
Design Engineering, Geotechnical, and Construction Management			10%	\$564,827			
Property Acquisition Cost:				\$13,964			
Total Conceptual Cost Estimate				\$8,570,197			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

**Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FGCR-1 Total Conceptual Cost Report**

Alternative Name FGCR-1
Problem Description Flagg Creek Overbank Flooding
Strategy - Add and optimize storage in Spring Rock Park Cut to 633
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	40000	\$13.88	\$555,200.00	\$516,328	\$132,944	\$12 (IDOT-2005) \$13 (CHICAGO-2006) \$8 (IDOT-2005)
Channel treatment: Excavation	yd3	73550	\$10.68	\$785,514.00	\$0	\$0	\$10 (MEANS-Heavy-2006) 02315-462
Channel treatment: Material to be hauled offsite	yd3	73550	\$11.75	\$864,212.50	\$0	\$0	\$11 (MEANS-Heavy-2006) 02315-490
Concrete: Cast in place	yd3	25	\$250.00	\$6,250.00	\$0	\$0	
Inlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	\$2435 (MEANS-Heavy-2006) G3030-310-2000
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	\$2435 (MEANS-Heavy-2006) G3030-310-2000
Pipe in earth (county): 36 inches or less	lf	985	\$216.78	\$213,528.30	\$198,578	\$0	Same as City
Land Acquisition: Permanent Easement *	dollar	1400000	\$1.00	\$1,400,000.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$2,429,905	\$719,742	\$132,944	
Utility Relocation			4 %	\$97,196			
Mobilization \ General Conditions			5%	\$121,495			
Subtotal with Percent Allowances				\$2,648,597			
Contingency			30%	\$794,579			
Profit			5%	\$172,159			
Probable Construction Cost Estimate				\$3,615,335			
Design Engineering, Geotechnical, and Construction Management			10%	\$361,533			
Property Acquisition Cost:				\$1,400,000			
Total Conceptual Cost Estimate				\$6,229,554			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FGCR-2 Total Conceptual Cost Report

Alternative Name FGCR-2
Problem Description Flagg Creek Overbank Flooding
Strategy Floodwall 1 to be constructed to 638.6
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	414	\$587.35	\$242,880.97	\$225,876	\$58,158	
Channel treatment: Material to be hauled offsite	yd3	414	\$11.75	\$4,858.86	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	8556	\$13.88	\$118,751.17	\$110,437	\$28,435	
Channel treatment: Excavation	yd3	5932	\$10.68	\$63,352.16	\$0	\$0	
Channel treatment: Sheet piling	yd2	856	\$303.28	\$259,474.24	\$0	\$62,132	
Pump Station: 10ac-ft per day interior drainage	each	0	\$800,000.00	\$0.00	\$0	\$0	
Pump Station: Small Pump Station with Flap Gate	each	1	\$650,000.00	\$650,000.00	\$362,694	\$0	
Pipe in earth (county): 36 inches or less	lf	10	\$216.78	\$2,167.80	\$2,016	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Channel treatment: Reinforced one sided concrete wall	yd3	375	\$587.35	\$220,438.33	\$205,004	\$52,785	
Channel treatment: Material to be hauled offsite	yd3	375	\$11.75	\$4,409.89	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	7111	\$13.88	\$98,702.21	\$91,792	\$23,635	
Channel treatment: Excavation	yd3	5973	\$10.68	\$63,795.16	\$0	\$0	
Channel treatment: Sheet piling	yd2	711	\$303.28	\$215,665.44	\$0	\$51,642	
Pump Station: 10ac-ft per day interior drainage	each	0	\$800,000.00	\$0.00	\$0	\$0	
Pipe in earth (county): 36 inches or less	lf	10	\$216.78	\$2,167.80	\$2,016	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Pump Station: Small Pump Station with Flap Gate	each	1	\$650,000.00	\$650,000.00	\$362,694	\$0	
Channel treatment: Excavation	yd3	7825	\$10.68	\$83,571.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	7825	\$11.75	\$91,943.75	\$0	\$0	
Channel treatment: Reinforced one sided concrete wall	yd3	588	\$587.35	\$345,397.04	\$321,214	\$82,706	
Channel treatment: Material to be hauled offsite	yd3	588	\$11.75	\$6,909.71	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	12167	\$13.88	\$168,873.38	\$157,050	\$40,437	
Channel treatment: Excavation	yd3	8436	\$10.68	\$90,091.78	\$0	\$0	
Channel treatment: Sheet piling	yd2	1217	\$303.28	\$368,991.68	\$0	\$88,356	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pipe in earth (county): 36 inches or less	lf	10	\$216.78	\$2,167.80	\$2,016	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name FGCR-2
Problem Description Flagg Creek Overbank Flooding
Strategy Floodwall 1 to be constructed to 638.6
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Land Acquisition: Permanent Easement *	dollar	10000	\$1.00	\$10,000.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	4000	\$1.00	\$4,000.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$4,562,411	\$2,594,051	\$488,286	
Utility Relocation			4 %	\$182,496			
Mobilization \ General Conditions			5%	\$228,121			
Subtotal with Percent Allowances				\$4,973,028			
Contingency			30%	\$1,491,908			
Profit			5%	\$323,247			
Probable Construction Cost Estimate				\$6,788,183			
Design Engineering, Geotechnical, and Construction Management			10%	\$678,818			
Property Acquisition Cost:				\$14,000			
Total Conceptual Cost Estimate				\$10,563,338			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

**Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FGCR-3 Total Conceptual Cost Report**

Alternative Name	FGCR-3
Problem Description	Flagg Creek Overbank Flooding
Strategy	- Channel Improvements (not needed if FGCR-1 & 59DT-1 are selected)
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	454	\$587.35	\$266,539.43	\$247,878	\$63,824	
Channel treatment: Material to be hauled offsite	yd3	454	\$11.75	\$5,332.15	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	9389	\$13.88	\$130,317.79	\$121,194	\$31,205	
Channel treatment: Excavation	yd3	6510	\$10.68	\$69,522.85	\$0	\$0	
Channel treatment: Sheet piling	yd2	939	\$303.28	\$284,746.56	\$0	\$68,183	
Pump Station: Small Pump Station with Flap Gate	each	1	\$650,000.00	\$650,000.00	\$362,694	\$0	
Pipe in earth (county): 36 inches or less	lf	10	\$216.78	\$2,167.80	\$2,016	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Channel treatment: Excavation	yd3	9535	\$10.68	\$101,833.80	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	9535	\$11.75	\$112,036.25	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	25000	\$1.00	\$25,000.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	105000	\$1.00	\$105,000.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$1,625,097	\$736,199	\$163,212
Utility Relocation			4 %	\$65,004		
Mobilization \ General Conditions			5%	\$81,255		
Subtotal with Percent Allowances				\$1,771,356		
Contingency			30%	\$531,407		
Profit			5%	\$115,138		
Probable Construction Cost Estimate				\$2,417,901		
Design Engineering, Geotechnical, and Construction Management			10%	\$241,790		
Property Acquisition Cost:				\$130,000		
Total Conceptual Cost Estimate				\$3,689,102		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

**Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FGCR-4 Total Conceptual Cost Report**

Alternative Name FGCR-4
Problem Description Flagg Creek Overbank Flooding
Strategy - Remove/replace ped entrance
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Demolition: Brick, concrete, or stone construction	ft2	1200	\$4.27	\$5,124.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	760	\$4.27	\$3,245.20	\$0	\$0	
Concrete: Cast in place	yd3	1600	\$250.00	\$400,000.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	0	\$1.00	\$0.00	\$0	\$0	
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$408,369	\$0	\$0	
Utility Relocation			4 %	\$16,335			
Mobilization \ General Conditions			5%	\$20,418			
Subtotal with Percent Allowances				\$445,122			
Contingency			30%	\$133,537			
Profit			5%	\$28,933			
Probable Construction Cost Estimate				\$607,592			
Design Engineering, Geotechnical, and Construction Management			10%	\$60,759			
Property Acquisition Cost:				\$0			
Total Conceptual Cost Estimate				\$668,351			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

**Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FGCR-5 Total Conceptual Cost Report**

Alternative Name FGCR-5
Problem Description Flagg Creek Overbank Flooding
Strategy Raise roadway west of structure to 602.07 for 0.5ft FB
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	2000	\$13.88	\$27,760.00	\$25,816	\$6,647	\$12 (IDOT-2005) \$13 (CHICAGO-2006) \$8 (IDOT-2005)
Demolition: Brick, concrete, or stone construction	ft2	4000	\$4.27	\$17,080.00	\$0	\$0	\$4 (MEANS-Heavy-2006) 02220-130-0240, 02220-240-1200 & 1400
Embankment construction, grading and restoration: Additional fill	yd3	2255	\$13.88	\$31,299.40	\$0	\$0	\$12 (IDOT-2005)
Embankment construction, grading and restoration: Compaction of fill	yd3	2255	\$5.34	\$12,041.70	\$0	\$0	\$5 (MEANS-Heavy-2006) 02315-310-Average
Embankment construction, grading and restoration: Material hauled from offsite	yd3	995	\$10.68	\$10,626.60	\$0	\$0	\$10 (MEANS-Heavy-2006) 02315-490-Average
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation)	lf	515	\$148.47	\$76,462.05	\$71,109	\$0	MD E-mail 7/1882008
Channel treatment: Excavation	yd3	1260	\$10.68	\$13,456.80	\$0	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	1200	\$661.03	\$793,236.00	\$737,697	\$0	
Land Acquisition: Permanent Easement *	dollar	6000	\$1.00	\$6,000.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	1000	\$1.00	\$1,000.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$981,963	\$834,622	\$6,647	
Utility Relocation			4 %	\$39,279			
Mobilization \ General Conditions			5%	\$49,098			
Subtotal with Percent Allowances				\$1,070,339			
Contingency			30%	\$321,102			
Profit			5%	\$69,572			
Probable Construction Cost Estimate				\$1,461,013			
Design Engineering, Geotechnical, and Construction Management			10%	\$146,101			
Property Acquisition Cost:				\$7,000			
Total Conceptual Cost Estimate				\$2,455,384			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
FGTB-1 Total Conceptual Cost Report

Alternative Name	FGTB-1
Problem Description	Flagg Creek Tributary B Overbank Flooding
Strategy	- New outfall channel for Trib B 3ft exc, 15ft BW, 27ft TW
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Concrete: Cast in place	yd3	5	\$250.00	\$1,250.00	\$0	\$0	
Channel treatment: Vegetative cover only	yd2	2250	\$8.54	\$19,215.00	\$17,870	\$4,601	
Channel treatment: Excavation	yd3	1750	\$10.68	\$18,690.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	1750	\$11.75	\$20,562.50	\$0	\$0	
Concrete: Cast in place	yd3	400	\$250.00	\$100,000.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	10	\$148.47	\$1,484.70	\$1,381	\$0	
Demolition: Brick, concrete, or stone construction	ft2	1040	\$4.27	\$4,440.80	\$0	\$0	
Channel treatment: Excavation	yd3	62	\$10.68	\$662.16	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	47	\$11.75	\$552.25	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	15	\$5.34	\$80.10	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	480	\$4.27	\$2,049.60	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Pipe under pavement (county): 42 to 66 inches / box culvert (15 to 27 ft2)	lf	100	\$291.54	\$29,154.00	\$27,113	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	20	\$148.47	\$2,969.40	\$2,762	\$0	
Land Acquisition: Purchase of Property *	dollar	220000	\$1.00	\$220,000.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	4000	\$1.00	\$4,000.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	160000	\$1.00	\$160,000.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$220,141	\$66,822	\$4,601
Utility Relocation			4 %	\$8,806		
Mobilization \ General Conditions			5%	\$11,007		
Subtotal with Percent Allowances				\$239,953		
Contingency			30%	\$71,986		
Profit			5%	\$15,597		
Probable Construction Cost Estimate				\$327,536		
Design Engineering, Geotechnical, and Construction Management			10%	\$32,754		
Property Acquisition Cost:				\$384,000		
Total Conceptual Cost Estimate				\$815,713		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
CBBEL Test Watershed Detailed Watershed Plan
59DT-1 Total Conceptual Cost Report

Alternative Name 59DT-1
Problem Description 59th Street Ditch Overbank Flooding
Strategy - Earthen Berm to 659.55: 3ft freeboard (WSEL=656.55)
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Excavation	yd3	40	\$10.68	\$427.20	\$0	\$0	
Concrete: Cast in place	yd3	25	\$250.00	\$6,250.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	40	\$13.88	\$555.20	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	850	\$5.34	\$4,539.00	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	810	\$10.68	\$8,650.80	\$0	\$0	
Channel treatment: Vegetative cover only	yd2	1750	\$8.54	\$14,945.00	\$13,899	\$3,579	
Land Acquisition: Permanent Easement *	dollar	850000	\$1.00	\$850,000.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	44000	\$1.00	\$44,000.00	\$0	\$0	
Subtotal (direct costs)				\$35,367	\$13,899	\$3,579	
Utility Relocation			4 %	\$1,415			
Mobilization \ General Conditions			5%	\$1,768			
Subtotal with Percent Allowances				\$38,550			
Contingency			30%	\$11,565			
Profit			5%	\$2,506			
Probable Construction Cost Estimate				\$52,621			
Design Engineering, Geotechnical, and Construction Management			10%	\$5,262			
Property Acquisition Cost:				\$894,000			
Total Conceptual Cost Estimate				\$969,361			
Additional Comments							

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
GCTR 1: Total Conceptual Cost Report

Alternative Name GCTR-1
Problem Description DPR Mainstream backwatr
Strategy Floodwall and pump station
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	946	\$587.35	\$555,633.10	\$516,730	\$133,048	
Channel treatment: Material to be hauled offsite	yd3	946	\$11.75	\$11,115.50	\$0	\$0	
Pipe in earth (county): 36 inches or less	lf	1400	\$216.78	\$303,492.00	\$282,243	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Land Acquisition: Purchase of Property *	dollar	26250	\$1.00	\$26,250.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	30555	\$1.00	\$30,555.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	7290	\$1.00	\$7,290.00	\$0	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	1700	\$148.47	\$252,399.00	\$234,727	\$0	
Pipe in earth (county): 36 inches or less	lf	400	\$216.78	\$86,712.00	\$80,641	\$0	
Pipe under pavement (county): 36 inches or less	lf	1700	\$415.41	\$706,197.00	\$656,752	\$0	
Pump Station: 300 cfs Pump Station with Flap Gate	each	1	\$3,970,000.00	\$3,970,000.00	\$2,215,224	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	21556	\$13.88	\$299,191.73	\$278,244	\$71,642	
Channel treatment: Excavation	yd3	12071	\$10.68	\$128,919.35	\$0	\$0	
Channel treatment: Sheet piling	yd2	1078	\$303.28	\$326,875.18	\$0	\$78,271	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$6,643,135	\$4,266,979	\$282,961	
Utility Relocation			4 %	\$265,725			
Mobilization \ General Conditions			5%	\$332,157			
Subtotal with Percent Allowances				\$7,241,017			
Contingency			30%	\$2,172,305			
Profit			5%	\$470,666			
Probable Construction Cost Estimate				\$9,883,989			
Design Engineering, Geotechnical, and Construction Management			10%	\$988,399			
Property Acquisition Cost:				\$64,095			
Total Conceptual Cost Estimate				\$15,486,423			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
HGCR 1: Total Conceptual Cost Report

Alternative Name	HGCR-1
Problem Description	Degrading weir and streambank erosion on Higgins Creek
Strategy	Weir rehabilitation and bank stabilization
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Dumped rock	yd3	55	\$67.28	\$3,700.40	\$3,441	\$886	
Channel treatment: Reinforced one sided concrete wall	yd3	235	\$587.35	\$138,027.25	\$128,363	\$33,051	
Channel treatment: Material to be hauled offsite	yd3	13500	\$11.75	\$158,625.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	7013	\$1.00	\$7,013.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	6000	\$4.27	\$25,620.00	\$0	\$0	
Channel treatment: Reinforced trapezoidal concrete channel	yd3	10	\$587.35	\$5,932.24	\$5,517	\$0	
Channel treatment: Excavation	yd3	185	\$10.68	\$1,977.94	\$0	\$0	
Concrete: Cast in place	yd3	93	\$250.00	\$23,150.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$357,033	\$137,321	\$33,937	
Utility Relocation			4 %	\$14,281			
Mobilization \ General Conditions			5%	\$17,852			
Subtotal with Percent Allowances				\$389,166			
Contingency			30%	\$116,750			
Profit			5%	\$25,296			
Probable Construction Cost Estimate				\$531,211			
Design Engineering, Geotechnical, and Construction Management			10%	\$53,121			
Property Acquisition Cost:				\$7,013			
Total Conceptual Cost Estimate				\$762,604			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
MDCR 2: Total Conceptual Cost Report

Alternative Name	MDCR2
Problem Description	Overbank flooding south of Camp McDonald Road
Strategy	Floodwalls/Channel improvements/ Flood storage
District Minimum	Met
Criteria for Funding:	Met
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Dumped riprap	yd3	25	\$67.28	\$1,682.00	\$1,564	\$403	
Channel treatment: Reinforced one sided concrete wall	yd3	2222	\$587.35	\$1,305,091.70	\$1,213,715	\$312,508	
Channel treatment: Sheet piling	yd2	4597	\$303.28	\$1,394,178.16	\$0	\$333,840	
Channel treatment: Soil stabilization and vegetative cover	yd2	45967	\$13.88	\$638,021.96	\$593,351	\$152,776	
Channel treatment: Soil stabilization and vegetative cover	yd2	10450	\$13.88	\$145,046.00	\$134,891	\$34,732	
Channel treatment: Soil stabilization and vegetative cover	yd2	5115	\$13.88	\$70,996.20	\$66,025	\$17,000	
Channel treatment: Vegetative cover only	yd2	14470	\$8.54	\$123,573.80	\$114,922	\$29,590	
Channel treatment: Excavation	yd3	31870	\$10.68	\$340,371.60	\$0	\$0	
Channel treatment: Excavation	yd3	4777	\$10.68	\$51,018.36	\$0	\$0	
Channel treatment: Excavation	yd3	32270	\$10.68	\$344,643.60	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	2222	\$11.75	\$26,108.50	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	4777	\$11.75	\$56,129.75	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	32270	\$11.75	\$379,172.50	\$0	\$0	
Inlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Outlet structures (Headwall): 36 inches or less	each	2	\$2,600.34	\$5,200.68	\$4,837	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Pipe in earth (county): 36 inches or less	lf	100	\$216.78	\$21,678.00	\$20,160	\$0	
Pipe in earth (county): 36 inches or less	lf	50	\$216.78	\$10,839.00	\$10,080	\$0	
maintenance: Small Channel Maintenance (Brush and debris removal)	lf	1045	\$5.00	\$5,225.00	\$4,859	\$1,251	
Concrete: Cast in place	yd3	370	\$250.00	\$92,500.00	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	173096	\$1.00	\$173,096.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	44290	\$1.00	\$44,290.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	39227	\$1.00	\$39,227.00	\$0	\$0	
Pump Station: 10ac-ft per day interior drainage	each	2	\$800,000.00	\$1,600,000.00	\$1,487,976	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name MDCR2
Problem Description Overbank flooding south of Camp McDonald Road
Strategy Floodwalls/Channel improvements/ Flood storage
District Minimum Met
Criteria for Funding: Met
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$6,616,677	\$3,657,216	\$882,100	
Utility Relocation			4 %	\$264,667			
Mobilization \ General Conditions			5%	\$330,834			
Subtotal with Percent Allowances				\$7,212,178			
Contingency			30%	\$2,163,654			
Profit			5%	\$468,792			
Probable Construction Cost Estimate				\$9,844,624			
Design Engineering, Geotechnical, and Construction Management			10%	\$984,462			
Property Acquisition Cost:				\$256,613			
Total Conceptual Cost Estimate				\$15,625,015			
Additional Comments							

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
MDCR 3: Total Conceptual Cost Report

Alternative Name	MDCR3
Problem Description	Overbank flooding along McDonald Creek
Strategy	Floodwall
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	1423	\$587.35	\$835,799.05	\$777,280	\$200,134	
Channel treatment: Material to be hauled offsite	yd3	1423	\$11.75	\$16,720.25	\$0	\$0	
Channel treatment: Soil stabilization and vegetative cover	yd2	24867	\$13.88	\$345,153.96	\$320,988	\$82,648	
Channel treatment: Excavation	yd3	24867	\$10.68	\$265,579.56	\$0	\$0	
Channel treatment: Sheet piling	yd2	7460	\$303.28	2,262,468.80	\$0	\$541,754	
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	
Pipe in earth (county): 36 inches or less	lf	100	\$216.78	\$21,678.00	\$20,160	\$0	
Outlet structures (Headwall): 36 inches or less	each	2	\$2,600.34	\$5,200.68	\$4,837	\$0	
Land Acquisition: Temporary Easement *	dollar	134495	\$1.00	\$134,495.00	\$0	\$0	
Land Acquisition: Permanent Easement *	dollar	91110	\$1.00	\$91,110.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$4,552,600	\$1,867,253	\$824,536	
Utility Relocation			4 %	\$182,104			
Mobilization \ General Conditions			5 %	\$227,630			
Subtotal with Percent Allowances				\$4,962,334			
Contingency			30%	\$1,488,700			
Profit			5%	\$322,552			
Probable Construction Cost Estimate				\$6,773,586			
Design Engineering, Geotechnical, and Construction Management			10%	\$677,359			
Property Acquisition Cost:				\$225,605			
Total Conceptual Cost Estimate				\$10,368,339			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
MDCR 4: Total Conceptual Cost Report

Alternative Name	MDCR4
Problem Description	Sedimentation along McDonald Creek
Strategy	Sediment removal
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Excavation	yd3	792	\$10.68	\$8,458.56	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	792	\$11.75	\$9,306.00	\$0	\$0	
maintenance: Small Channel Maintenance (Brush and debris removal)	lf	2210	\$5.00	\$11,050.00	\$10,276	\$2,646	
Land Acquisition: Temporary Easement *	dollar	29676	\$1.00	\$29,676.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$28,815	\$10,276	\$2,646	
Utility Relocation			4 %	\$1,153			
Mobilization \ General Conditions			5%	\$1,441			
Subtotal with Percent Allowances				\$31,408			
Contingency			30%	\$9,422			
Profit			5%	\$2,042			
Probable Construction Cost Estimate				\$42,872			
Design Engineering, Geotechnical, and Construction Management			10%	\$4,287			
Property Acquisition Cost:				\$29,676			
Total Conceptual Cost Estimate				\$89,757			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
MDCR 5: Total Conceptual Cost Report

Alternative Name	MDCR5
Problem Description	Bank erosion around pedestrian bridges
Strategy	Bank stabilization
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Land Acquisition: Temporary Easement *	dollar	1500	\$1.00	\$1,500.00	\$0	\$0	
Channel treatment: Dumped rock	yd3	49	\$67.28	\$3,289.99	\$3,060	\$788	
Channel treatment: Reinforced one sided concrete wall	yd3	279	\$587.35	\$164,105.59	\$152,616	\$39,296	
Channel treatment: Excavation	yd3	55	\$10.68	\$587.40	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	55	\$11.75	\$646.25	\$0	\$0	
Channel treatment: Dumped rock	yd3	13	\$67.28	\$894.82	\$832	\$214	
Channel treatment: Reinforced one sided concrete wall	yd3	51	\$587.35	\$29,954.85	\$27,858	\$7,173	
Channel treatment: Excavation	yd3	17	\$10.68	\$181.56	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	17	\$11.75	\$199.75	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	450	\$1.00	\$450.00	\$0	\$0	
Channel treatment: Dumped rock	yd3	24	\$67.28	\$1,641.63	\$1,527	\$393	
Channel treatment: Reinforced one sided concrete wall	yd3	140	\$587.35	\$82,052.80	\$76,308	\$19,648	
Channel treatment: Excavation	yd3	31	\$10.68	\$331.08	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	31	\$11.75	\$364.25	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	750	\$1.00	\$750.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$284,250	\$262,200	\$67,512
Utility Relocation			4 %	\$11,370		
Mobilization \ General Conditions			5%	\$14,213		
Subtotal with Percent Allowances				\$309,832		
Contingency			30%	\$92,950		
Profit			5%	\$20,139		
Probable Construction Cost Estimate				\$422,921		
Design Engineering, Geotechnical, and Construction Management			10%	\$42,292		
Property Acquisition Cost:				\$2,700		
Total Conceptual Cost Estimate				\$797,625		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
MTCA 1: Total Conceptual Cost Report

Alternative Name	MCTA1
Problem Description	Road flooding at Hilleret Drive/ Owen Court
Strategy	Culvert improvements/ Road improvements/ Flood storage
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	2431	\$13.88	\$33,742.28	\$31,380	\$8,080	
Channel treatment: Vegetative cover only	yd2	28282	\$8.54	\$241,528.28	\$224,618	\$57,835	
Demolition: Brick, concrete, or stone construction	ft2	72744	\$4.27	\$310,616.88	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	148	\$13.88	\$2,054.24	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	148	\$5.34	\$790.32	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	9473	\$5.34	\$50,585.82	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	9473	\$10.68	\$101,171.64	\$0	\$0	
Channel treatment: Excavation	yd3	70685	\$10.68	\$754,915.80	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	38263	\$11.75	\$449,590.25	\$0	\$0	
Inlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Inlet structures (Headwall): 36 inches or less	each	3	\$2,600.34	\$7,801.02	\$7,255	\$0	
Outlet structures (Headwall): 36 inches or less	each	1	\$2,600.34	\$2,600.34	\$2,418	\$0	
Outlet structures (Headwall): 36 inches or less	each	3	\$2,600.34	\$7,801.02	\$7,255	\$0	
Pipe in earth (county): 36 inches or less	lf	80	\$216.78	\$17,342.40	\$16,128	\$0	
Pipe under pavement (county): 36 inches or less	lf	4320	\$415.41	\$1,794,571.20	\$1,668,924	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	2598	\$148.47	\$385,725.06	\$358,718	\$0	
Land Acquisition: Purchase of Property *	dollar	231154	\$1.00	\$231,154.00	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	132	\$1.00	\$132.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$4,163,437	\$2,319,114	\$65,915
Utility Relocation			4 %	\$166,537		
Mobilization \ General Conditions			5 %	\$208,172		
Subtotal with Percent Allowances				\$4,538,146		
Contingency			30 %	\$1,361,444		
Profit			5 %	\$294,980		
Probable Construction Cost Estimate				\$6,194,570		
Design Engineering, Geotechnical, and Construction Management			10 %	\$619,457		
Property Acquisition Cost:				\$231,286		
Total Conceptual Cost Estimate				\$9,430,341		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
SLCR 1: Total Conceptual Cost Report

Alternative Name	SLCRI
Problem Description	Overbank Flooding
Strategy	Reservoir
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	69920	\$13.88	\$970,489.60	\$902,540	\$232,386	
Channel treatment: Excavation	yd3	416250	\$10.68	4,445,550.00	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	395437	\$11.75	4,646,384.75	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	20813	\$13.88	\$288,884.44	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	1930	\$5.34	\$10,306.20	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	3078555	\$1.00	3,078,555.00	\$0	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$10,361,615	\$902,540	\$232,386	
Utility Relocation			4 %	\$414,465			
Mobilization \ General Conditions			5 %	\$518,081			
Subtotal with Percent Allowances				\$11,294,160			
Contingency			30 %	\$3,388,248			
Profit			5 %	\$734,120			
Probable Construction Cost Estimate				\$15,416,529			
Design Engineering, Geotechnical, and Construction Management			10 %	\$1,541,653			
Property Acquisition Cost:				\$3,078,555			
Total Conceptual Cost Estimate				\$21,171,663			

Additional Comments

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
SLCR 2: Total Conceptual Cost Report

Alternative Name	SLCR 2
Problem Description	Overbank Flooding
Strategy	Reservoir
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	136478	\$13.88	1,894,314.64	\$1,761,684	\$453,599	
Channel treatment: Excavation	yd3	927355	\$10.68	9,904,151.40	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	880986	\$11.75	0,351,585.50	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	46369	\$13.88	\$643,601.72	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	6391	\$5.34	\$34,127.94	\$0	\$0	
Land Acquisition: Purchase of Property *	dollar	7862950	\$1.00	7,862,950.00	\$0	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	1	\$955,000.00	\$955,000.00	\$532,881	\$0	
Pump Station: 15 cfs Pump Station with Flap Gate	each	1	\$560,000.00	\$560,000.00	\$312,475	\$0	
Pump Station: 15 cfs Pump Station with Flap Gate	each	1	\$560,000.00	\$336,000.00	\$187,485	\$0	5 cfs pump

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)		\$24,678,781	\$2,794,525	\$453,599
Utility Relocation	4 %	\$987,151		
Mobilization \ General Conditions	5 %	\$1,233,939		
Subtotal with Percent Allowances		\$26,899,872		
Contingency	30 %	\$8,069,961		
Profit	5 %	\$1,748,492		
Probable Construction Cost Estimate		\$36,718,325		
Design Engineering, Geotechnical, and Construction Management	10 %	\$3,671,832		
Property Acquisition Cost:		\$7,862,950		
Total Conceptual Cost Estimate		\$51,501,231		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
SLCR 3: Total Conceptual Cost Report

Alternative Name	SLCR 3
Problem Description	Overbank Flooding
Strategy	Reservoir / Roadway Replacement
District Minimum	Met
Criteria for Funding:	No
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	153254	\$13.88	2,127,165.52	\$1,978,231	\$509,355	
Channel treatment: Vegetative cover only	yd2	1653	\$8.54	\$14,116.62	\$13,128	\$3,380	
Channel treatment: Excavation	yd3	1250021	\$10.68	3,350,224.28	\$0	\$0	
Channel treatment: Material to be hauled offsite	yd3	880986	\$11.75	0,351,585.50	\$0	\$0	
Concrete: Cast in place	yd3	110	\$250.00	\$27,500.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	3500	\$4.27	\$14,945.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	62502	\$13.88	\$867,527.76	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	6391	\$5.34	\$34,127.94	\$0	\$0	
Embankment construction, grading and restoration: Material hauled from offsite	yd3	306533	\$10.68	3,273,772.44	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Land Acquisition: Purchase of Property *	dollar	7862950	\$1.00	7,862,950.00	\$0	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	140	\$148.47	\$20,785.80	\$19,330	\$0	
Pipe under pavement (county): 90 to 96 inches / box culvert (39 to 50 ft2)	lf	730	\$661.03	\$482,551.90	\$448,766	\$0	
Concrete: Cast in place	yd3	128400	\$250.00	2,100,000.00	\$0	\$0	Vertical Wall Construction: Cast in place

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)	\$62,683,333	\$2,477,154	\$512,735
Utility Relocation	4 %	\$2,507,333	
Mobilization \ General Conditions	5%	\$3,134,167	
Subtotal with Percent Allowances	\$68,324,833		
Contingency	30%	\$20,497,450	
Profit	5%	\$4,441,114	
Probable Construction Cost Estimate	\$93,263,397		
Design Engineering, Geotechnical, and Construction Management	10%	\$9,326,340	
Property Acquisition Cost:		\$7,862,950	
Total Conceptual Cost Estimate	\$113,442,575		

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
SLCR 5: Total Conceptual Cost Report

Alternative Name	SLCR 5
Problem Description	Roadway Overtopping
Strategy	Raise roadway and replace culvert
District Minimum	Met
Criteria for Funding:	
Recommended	No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	4819	\$13.88	\$66,887.72	\$62,205	\$16,016	
Channel treatment: Vegetative cover only	yd2	12916	\$8.54	\$110,302.64	\$102,580	\$26,412	
Demolition: Brick, concrete, or stone construction	ft2	138800	\$4.27	\$592,676.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	9444	\$13.88	\$131,082.72	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	2	\$4,757.50	\$9,515.00	\$8,849	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	3470	\$148.47	\$515,190.90	\$479,120	\$0	
Pipe under pavement (county): Box culvert (51 to 60 ft2)	lf	540	\$661.03	\$356,956.20	\$331,964	\$0	
* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)							
Subtotal (direct costs)				\$1,782,611	\$984,717	\$42,428	
Utility Relocation			4 %	\$71,304			
Mobilization \ General Conditions			5%	\$89,131			
Subtotal with Percent Allowances				\$1,943,046			
Contingency			30%	\$582,914			
Profit			5%	\$126,298			
Probable Construction Cost Estimate				\$2,652,258			
Design Engineering, Geotechnical, and Construction Management			10%	\$265,226			
Property Acquisition Cost:					\$0		
Total Conceptual Cost Estimate				\$3,944,628			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
STCR 1234: Total Conceptual Cost Report

Alternative Name STCR1234
Problem Description DP-STCR-BF-FR-01
Strategy Channel Improvements and Reservoir
District Minimum Met
Criteria for Funding: Met
Recommended No

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
maintenance: Large Channel Maintenance	lf	12000	\$100.00	\$1,200,000.00	\$1,115,982	\$287,343	Clear debris in channel, remove undergrowth and trim trees in overbank area.
Channel treatment: Material to be hauled offsite	yd3	104070	\$11.75	\$1,222,822.50	\$0	\$0	Haul off the material excavated for the 85 ac-ft reservoir.
Channel treatment: Excavation	yd3	108790	\$10.68	\$1,161,877.20	\$0	\$0	Excavation for the 85 ac-ft reservoir.
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	Reservoir outlet/overflow weir - 200 feet by 80 feet by 0.5 foot thick.
Channel treatment: Soil stabilization and vegetative cover	yd2	46500	\$13.88	\$645,420.00	\$600,231	\$154,548	Approximately 10 acres, reservoir soil stabilization and cover.
Embankment construction, grading and restoration: Additional fill	yd3	4720	\$13.88	\$65,513.60	\$0	\$0	Embankment around reservoir
Embankment construction, grading and restoration: Compaction of fill	yd3	4720	\$5.34	\$25,204.80	\$0	\$0	Compaction of embankment around reservoir
Pipe in earth (county): 36 inches or less	lf	80	\$216.78	\$17,342.40	\$16,128	\$0	Reservoir outlet
Land Acquisition: Temporary Easement *	dollar	542500	\$1.00	\$542,500.00	\$0	\$0	Channel improvements, 31 acres
Land Acquisition: Purchase of Property *	dollar	1925000	\$1.00	\$1,925,000.00	\$0	\$0	Reservoir, 11 acres

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$4,413,181	\$1,732,341	\$441,891	
Utility Relocation			4 %	\$176,527			
Mobilization \ General Conditions			5%	\$220,659			
Subtotal with Percent Allowances				\$4,810,367			
Contingency			30%	\$1,443,110			
Profit			5%	\$312,674			
Probable Construction Cost Estimate				\$6,566,151			
Design Engineering, Geotechnical, and Construction Management			10%	\$656,615			
Property Acquisition Cost:				\$2,467,500			
Total Conceptual Cost Estimate				\$11,864,497			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
STCR 5: Total Conceptual Cost Report

Alternative Name	STCR5
Problem Description	DP-STCR-BF-FR-01
Strategy	Floodwall, channel improvement, and reservoir
District Minimum	Met
Criteria for Funding:	Yes
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Reinforced one sided concrete wall	yd3	1365	\$587.35	\$801,732.75	\$745,599	\$191,977	North floodwall, 3,115 feet long
Channel treatment: Reinforced one sided concrete wall	yd3	1439	\$587.35	\$845,196.65	\$786,020	\$202,385	Middle floodwall, 2,100 feet long
Channel treatment: Reinforced one sided concrete wall	yd3	1567	\$587.35	\$920,377.45	\$855,937	\$220,387	South floodwall, 2,465 feet long
Channel treatment: Sheet piling	yd2	3461	\$303.28	\$1,049,652.08	\$0	\$251,342	North floodwall
Channel treatment: Sheet piling	yd2	2333	\$303.28	\$707,552.24	\$0	\$169,425	Middle floodwall
Channel treatment: Sheet piling	yd2	2739	\$303.28	\$830,683.92	\$0	\$198,909	South floodwall
Channel treatment: Soil stabilization and vegetative cover	yd2	34611	\$13.88	\$480,400.68	\$446,765	\$115,033	North floodwall backfill stabilization
Channel treatment: Soil stabilization and vegetative cover	yd2	23333	\$13.88	\$323,862.04	\$301,187	\$77,550	Middle floodwall backfill stabilization
Channel treatment: Soil stabilization and vegetative cover	yd2	27389	\$13.88	\$380,159.32	\$353,542	\$91,030	South floodwall backfill stabilization
Channel treatment: Soil stabilization and vegetative cover	yd2	46500	\$13.88	\$645,420.00	\$600,231	\$154,548	10 acres of topsoil, seeding, blanket for 152 acre-ft reservoir. 4:1 side slope in 18 foot deep reservoir.
Embankment construction, grading and restoration: Additional fill	yd3	5300	\$13.88	\$73,564.00	\$0	\$0	Embankment around reservoir
Embankment construction, grading and restoration: Compaction of fill	yd3	5300	\$5.34	\$28,302.00	\$0	\$0	Compaction of embankment around reservoir.
Channel treatment: Excavation	yd3	11537	\$10.68	\$123,215.16	\$0	\$0	North floodwall foundation excavation
Channel treatment: Excavation	yd3	27378	\$10.68	\$292,397.04	\$0	\$0	Middle floodwall foundation excavation
Channel treatment: Excavation	yd3	27389	\$10.68	\$292,514.52	\$0	\$0	South floodwall foundation excavation
Channel treatment: Excavation	yd3	189600	\$10.68	\$2,024,928.00	\$0	\$0	Excavation for 152 acre-ft reservoir and for floodwall footings - 2 feet width and 3.5 feet depth.
Channel treatment: Material to be hauled offsite	yd3	1365	\$11.75	\$16,038.75	\$0	\$0	North floodwall excavation
Channel treatment: Material to be hauled offsite	yd3	1439	\$11.75	\$16,908.25	\$0	\$0	Middle floodwall excavation
Channel treatment: Material to be hauled offsite	yd3	1567	\$11.75	\$18,412.25	\$0	\$0	South floodwall excavation
Channel treatment: Material to be hauled offsite	yd3	184300	\$11.75	\$2,165,525.00	\$0	\$0	Haul off excess excavated material from site, use some for embankment between creek and reservoir.
Pipe in earth (county): 36 inches or less	lf	80	\$216.78	\$17,342.40	\$16,128	\$0	

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Alternative Name STCR5
Problem Description DP-STCR-BF-FR-01
Strategy Floodwall, channel improvement, and reservoir
District Minimum Met
Criteria for Funding:
Recommended Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
maintenance: Large Channel Maintenance	lf	12000	\$100.00	\$1,200,000.00	\$1,115,982	\$287,343	STCR 1234 channel improvements
Concrete: Cast in place	yd3	300	\$250.00	\$75,000.00	\$0	\$0	Spillway for reservoir
Land Acquisition: Purchase of Property *	dollar	1925000	\$1.00	\$1,925,000.00	\$0	\$0	Reservoir, 11 acres
Land Acquisition: Permanent Easement *	dollar	87500	\$1.00	\$87,500.00	\$0	\$0	Long term maintenance of north floodwall
Land Acquisition: Permanent Easement *	dollar	42350	\$1.00	\$42,350.00	\$0	\$0	Long term maintenance of middle floodwall
Land Acquisition: Permanent Easement *	dollar	90232	\$1.00	\$90,232.00	\$0	\$0	Long term maintenance of south floodwall, 2.3 acres
Land Acquisition: Temporary Easement *	dollar	542500	\$1.00	\$542,500.00	\$0	\$0	North floodwall construction
Land Acquisition: Temporary Easement *	dollar	25410	\$1.00	\$25,410.00	\$0	\$0	construction of middle floodwall
Land Acquisition: Temporary Easement *	dollar	41506	\$1.00	\$41,506.00	\$0	\$0	Construction easement for south floodwall, 0.9 acres
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	Drainage behind north floodwall
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	Drainage behind middle floodwall
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	Drainage behind south floodwall
Pump Station: 10ac-ft per day interior drainage	each	1	\$800,000.00	\$800,000.00	\$743,988	\$0	One pump to evacuate water from reservoir.

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$16,529,185	\$8,197,342	\$1,959,929	
Utility Relocation			4 %	\$661,167			
Mobilization \ General Conditions			5%	\$826,459			
Subtotal with Percent Allowances				\$18,016,811			
Contingency			30%	\$5,405,043			
Profit			5%	\$1,171,093			
Probable Construction Cost Estimate				\$24,592,947			
Design Engineering, Geotechnical, and Construction Management			10%	\$2,459,295			
Property Acquisition Cost:				\$2,754,498			
Total Conceptual Cost Estimate				\$39,964,011			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding

Metropolitan Water Reclamation District of Greater Chicago
LDPR Watershed Detailed Watershed Plan
WECR 1: Total Conceptual Cost Report

Alternative Name	WECR1
Problem Description	Weller Creek old channel overbank flooding
Strategy	Additional culvert, floodwall, flood easement
District Minimum	Met
Criteria for Funding:	
Recommended	Yes

	Unit	Quantity	Unit Cost	Base Cost	Maint. Cost	Replacement Cost	Notes/Issues
Channel treatment: Soil stabilization and vegetative cover	yd2	1711	\$13.88	\$23,748.68	\$22,086	\$5,687	
Channel treatment: Material to be hauled offsite	yd3	14444	\$11.75	\$169,717.00	\$0	\$0	
Concrete: Cast in place	yd3	57	\$250.00	\$14,350.00	\$0	\$0	
Demolition: Brick, concrete, or stone construction	ft2	10600	\$4.27	\$45,262.00	\$0	\$0	
Embankment construction, grading and restoration: Additional fill	yd3	139	\$13.88	\$1,929.32	\$0	\$0	
Embankment construction, grading and restoration: Compaction of fill	yd3	139	\$5.34	\$742.26	\$0	\$0	
Inlet structures (Headwall): 42 to 66 inches	each	3	\$4,757.50	\$14,272.50	\$13,273	\$0	
Land Acquisition: Permanent Easement *	dollar	2205674	\$1.00	2,205,673.52	\$0	\$0	
Land Acquisition: Temporary Easement *	dollar	9274	\$1.00	\$9,273.50	\$0	\$0	
Outlet structures (Headwall): 42 to 66 inches	each	3	\$4,757.50	\$14,272.50	\$13,273	\$0	
Paving: Asphalt Pavement Installation (24 ft wide, 2 ft C&G, 1 ft Excavation	lf	875	\$148.47	\$129,911.25	\$120,815	\$0	
Pipe in earth (county): Box culvert (51 to 60 ft2)	lf	2310	\$472.01	\$1,090,343.10	\$1,014,002	\$0	
Pipe under pavement (county): Box culvert (51 to 60 ft2)	lf	1590	\$661.03	\$1,051,037.70	\$977,449	\$0	
Pump Station: 40 cfs Pump Station with Flap Gate	each	1	\$955,000.00	\$955,000.00	\$532,881	\$0	

* Indicates item excluded from subtotal (e.g. land acquisition, buyouts)

Subtotal (direct costs)				\$3,510,586	\$2,693,780	\$5,687	
Utility Relocation			4 %	\$140,423			
Mobilization \ General Conditions			5 %	\$175,529			
Subtotal with Percent Allowances				\$3,826,539			
Contingency			30 %	\$1,147,962			
Profit			5 %	\$248,725			
Probable Construction Cost Estimate				\$5,223,226			
Design Engineering, Geotechnical, and Construction Management			10 %	\$522,323			
Property Acquisition Cost:				\$2,214,947			
Total Conceptual Cost Estimate				\$10,659,963			

Additional Comments

Note: Small differences between the base cost and the reported product of quantity and unit cost due to rounding