

**Project Cost Estimate for
Lake Orion Lift Stations - Phase 1
PRJ1-3381
22-Aug-24**

	<u>Total Cost</u>	<u>% of Construction</u>
1) Construction	\$ 2,774,000	
Project Construction Cost (Est)		
2) Project Development: Engineering Consulting	\$ 134,000	4.83%
3) Project Financing & Legal	\$ 11,000	0.40%
3) Right-of-Way Services	\$ 10,000	0.36%
4) Exclusive County Services	\$ 251,000	9.05%
5) Subtotal:	\$ 3,180,000	
6) Contingency (10%)	\$ 318,000	11.46%
	Total Project Cost	Total % Admin & Contingency
	\$ 3,498,000	26.10%
Grant Funding	\$ 1,750,000	<i>Congressional Community Projects Grant</i>
	\$ 335,000	<i>ARPA Funding</i>
Remaining Funded by Village	\$ 1,413,000	

DVM Utilities, Inc.

6045 Sims
Sterling Heights, MI 48313

Lawrence M. Clark, Inc.

50850 Bemis Road
Belleville, MI 48111

Item	Quantity	Unit	Unit Price	Total Cost	Unit Price	Total Cost
BASE BID						
<u>Item</u>						
1. Mobilization (5% Max)	1	LS	\$100,000.00	\$100,000.00	\$150,000.00	\$150,000.00
2. Color Audio-Video Recording Construction Areas	1	LS	\$7,000.00	\$7,000.00	\$20,000.00	\$20,000.00
3. Traffic Maintenance & Control	1	LS	\$24,000.00	\$24,000.00	\$20,000.00	\$20,000.00
4. Soil Erosion and Sedimentation Control	1	LS	\$9,000.00	\$9,000.00	\$20,000.00	\$20,000.00
5. LO-7 Improvements, Complete	1	LS	\$250,000.00	\$250,000.00	\$450,000.00	\$450,000.00
6. LO-7 Dewatering	1	LS	\$33,000.00	\$33,000.00	\$15,000.00	\$15,000.00
7. LO-8 Improvements, Complete	1	LS	\$450,000.00	\$450,000.00	\$550,000.00	\$550,000.00
8. LO-8 Dewatering	1	LS	\$41,000.00	\$41,000.00	\$15,000.00	\$15,000.00
9. LO-9 Improvements, Complete	1	LS	\$512,000.00	\$512,000.00	\$550,000.00	\$550,000.00
10. LO-9 Dewatering	1	LS	\$14,000.00	\$14,000.00	\$15,000.00	\$15,000.00
11. LO-10 Improvements, Complete	1	LS	\$272,000.00	\$272,000.00	\$475,000.00	\$475,000.00
12. LO-10 Dewatering	1	LS	\$10,000.00	\$10,000.00	\$15,000.00	\$15,000.00
13. New Force Main, 4" HDPE, HDD, LO-9	370	LF	\$370.00	\$136,900.00	\$150.00	\$55,500.00
14. New Force Main, 4" HDPE, HDD, LO-10	530	LF	\$387.00	\$205,110.00	\$150.00	\$79,500.00
15. Bypass Pump Connections and Valves	4	EA	\$80,000.00	\$320,000.00	\$30,000.00	\$120,000.00
16. CIPP Lining Installation	80	LF	\$900.00	\$72,000.00	\$250.00	\$20,000.00
17. Epoxy Coating	200	SF	\$100.00	\$20,000.00	\$150.00	\$30,000.00
18. Permit Fee Allowance	1	LS	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
19. DTE Service Allowance	1	LS	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00
20. SCADA Allowance	1	LS	\$258,000.00	\$258,000.00	\$258,000.00	\$258,000.00
21. Cathodic Protection Allowance	1	LS	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
TOTAL Amount of Bid - BASE BID				\$2,774,010.00		\$2,898,000.00

ENGINEER:
Hubbell, Roth & Clark, Inc.
555 Hulet Drive
Bloomfield Hills, MI 48302

EPA Grant Funding
CONSTRUCTION Cost Projection After Bid

Station	TOTAL CONSTRUCTION 2024 \$	HRC Estimate 100%	HRC % of total	DVM Bid % of total
Lake Orion Station #1 - Ejector	\$710,000	\$437,000	6.03%	
Lake Orion Station #2 - Ejector	\$702,750	\$434,000	5.99%	
Lake Orion Station #3 - Ejector	\$702,750	\$434,000	5.99%	
Lake Orion Station #4	\$494,750	\$400,000	5.52%	
Lake Orion Station #5 - Ejector	\$730,000	\$453,000	6.25%	
Lake Orion Station #6 - Ejector	\$730,000	\$453,000	6.25%	
Lake Orion Station #7	\$494,750	\$396,000	5.47%	17.84%
Lake Orion Station #8 - Ejector	\$702,750	\$434,000	5.99%	25.33%
Lake Orion Station #9 - Ejector	\$737,750	\$475,000	6.56%	26.60%
Lake Orion Station #10	\$493,750	\$410,000	5.66%	17.80%
Lake Orion Station #11 - Ejector	\$710,000	\$440,000	6.07%	
Lake Orion Station #12	\$450,000	\$291,000	4.02%	
Lake Orion Station #13 - Ejector	\$702,750	\$434,000	5.99%	
Lake Orion Station #14 - Ejector	\$743,500	\$481,000	6.64%	
Lake Orion Station #15 - Ejector	\$750,000	\$491,000	6.78%	
Lake Orion Station #16 - Ejector	\$737,750	\$478,000	6.60%	
LO-9 Force Main	\$138,400	\$141,000	1.95%	4.99%
LO-10 Force Main	\$206,610	\$164,000	2.26%	7.45%
Total Construction Cost	\$10,938,260.00	\$7,246,000.00	100.00%	
Total Phase 1	\$2,774,010	\$2,020,000		
Total Phase 2	\$4,094,000			
Total Phase 3	\$4,070,250			
Total Construction all 3 Phases	\$10,938,260			

EPA Grant Funding
TOTAL Cost Projection After Bid

PHASE 1 POST-BID	WRC 8/22/24	Percentage of Construction Cost
Construction as bid by DVM	\$2,774,010	
Project Development: Engineering Consulting	\$134,000	4.83%
Project Financing & Legal	\$11,000	0.40%
Right-of-way Services	\$10,000	0.36%
Exclusive County Services	\$251,000	9.05%
Subtotal	\$3,180,010	
Contingency (10%)	\$318,000	11.46%
Total Project Cost Phase 1	\$3,498,010	26.10%

**Total Single Phase Cost
Per HRC/WRC 100% Estimate
PRE-BID
\$9,103,000**

**Post-bid Single Phase
Estimate per DVM + WRC %
\$13,793,080**

PROJECTED COSTS FUTURE PHASES	Construction Costs	26.10% "Admin"	1.50% Add'l Bonding	5.00% Inflation	Phase Cost	CPF Grant	Final Cost
Phase 1 (LO-7 through LO-10 , FM 9 and FM 10)	\$2,774,010	\$724,000	\$0	\$0	\$3,498,010	\$1,750,000	\$1,748,010
Phase 2 (LO-11 through LO-16)	\$4,094,000	\$1,068,509	\$61,410	\$204,700	\$5,428,619	\$0	\$5,428,619
Phase 3 (LO-1 through LO-6)	\$4,070,250	\$1,062,311	\$61,054	\$213,688	\$5,407,303	\$0	\$5,407,303
	\$10,938,260	\$2,854,820			"Worst case" Total 3-year cost		\$12,583,932
	Construction Costs	26.10% "Admin"	1.50% Add'l Bonding	5.00% Inflation	Program Cost	80% CPF Grant	Final Cost
Phase 1 (LO-7 through LO-10 , FM 9 and FM 10)	\$2,774,010	\$724,000	\$41,610	\$0	\$3,539,620	\$1,750,000	\$1,789,620
Phase 2 (LO-11 through LO-16)	\$4,094,000	\$1,068,509	\$61,410	\$204,700	\$5,428,619	\$750,000	\$4,678,619
Phase 3 (LO-1 through LO-6)	\$4,070,250	\$1,062,311	\$61,054	\$213,688	\$5,407,303	\$0	\$5,407,303
	\$10,938,260	\$2,854,820			"Best case" Total 3-year cost		\$11,875,542

Total projected estimate 3-year cost of all phases with no EPA grants or other funding **\$14,333,932**