

**CITY OF WASILLA  
WASTEWATER OUTFALL FEASIBILITY STUDY**

Appendix H Estimate of Construction Costs  
April 3, 2017

## **Appendix H Estimate of Construction Costs**





725 East Fireweed Lane, Suite 200  
Anchorage, AK 99503  
Construction Estimate  
Prepared by: Stephanie Gould

204700415  
Wastewater Outfall  
City of Wasilla  
March 30, 2017

### Price Per Task Summary

Task	Task Description	Total
1	Application to Unimproved Wetlands (Outfall Piping and Perimeter Fencing)	\$980,316
2	Application to Enhanced Wetlands (6-inch Earthen Berms )	\$429,421
<b>Totals</b>		<b>\$1,409,737</b>

### Notes/Assumptions

- 1 Winter construction within wetlands.



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**Task 1: Application to Unimproved Wetlands (Outfall Piping and Perimeter Fencing)**

Item No. and Description	Unit	Unit Price	Quantity	Amount
1 Clearing and Grubbing	Acre	\$10,000.00	1.1	\$10,537.19
2 Excavation	Cubic Yard	\$20.00	1500	\$30,000.00
3 Trenching	Linear Foot	\$30.00	2,150	\$64,500.00
4 Bedding	Ton	\$27.00	900	\$24,300.00
5 8" HPDE Piping	Linear Foot	\$50.00	2,150	\$107,500.00
6 10" HDPE Outfall Header Piping	Linear Foot	\$69.00	400	\$27,600.00
7 8" Valve	Each	\$3,500.00	1	\$3,500.00
8 18" CMP	Linear Foot	\$75.00	40	\$3,000.00
9 DOT Select Material Type A	Ton	\$23.00	2,900	\$66,700.00
10 DOT Aggregate Surface Course E-1	Ton	\$40.00	2,100	\$84,000.00
11 Fence Clearing	Acre	\$7,000.00	1.9	\$13,522.73
12 8' Chainlink Fence with Barbwire	Linear Foot	\$38.00	8,415	\$319,770.00
13 Mobilization and Demobilization	Lump Sum	\$23,000.00	1	\$23,000.00
14 Erosion and Pollution Control	Lump Sum	\$23,000.00	1	\$23,000.00
15 Construction Surveying	Lump Sum	\$16,000.00	1	\$16,000.00
16				
17				
			<b>Subtotal</b>	<b>\$816,929.92</b>

TOTALS	
Subtotal Cost	\$816,930
Contingency Percentage	20%
Contingency Cost	\$163,386
<b>Total Cost</b>	<b>\$980,316</b>



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**Task 2: Application to Enhanced Wetlands (6-inch Earthen Berms )**

Item No. and Description	Unit	Unit Price	Quantity	Amount
1 Clearing	Acre	\$7,000.00	0.9	\$6,029.78
2 Snow Removal	Acre	\$15,000.00	0.9	\$12,920.96
3 Separation Geotextile	Square Yard	\$3.00	4200	\$12,600.00
4 1/2"-1" Crushed Aggregate	Ton	\$70.00	2,700	\$189,000.00
5 Regrading Summer After Placement	Linear Foot	\$13.00	4,700	\$61,100.00
6 Compost Sock	Linear Foot	\$6.00	4,700	\$28,200.00
7 Mobilization and Demobilization	Lump Sum	\$31,000.00	1	\$31,000.00
8 Erosion and Pollution Control	Lump Sum	\$7,000.00	1	\$7,000.00
9 Construction Surveying	Lump Sum	\$10,000.00	1	\$10,000.00
10				
11				
12				
13				
14				
15			<b>Subtotal</b>	<b>\$357,850.74</b>

Assumes winter construction of 4700 LF of 6-inch high berms/pathway. Pathway to be 5-6' wide with fill placed at 12-inch high to account or settlement

TOTALS	
Subtotal Cost	\$357,851
Contingency Percentage	20%
Contingency Cost	\$71,570
<b>Total Cost</b>	<b>\$429,421</b>

