Appendix B – Cost Estimates and Schedules







Estimated Development Cost Summary Table

Construction Costs and TPC

	Site Loveut	Total Construction Cost	Total Project Cost (with		
	Site Layout	Subtotal*	contingency)**		
Mack Point	Phase 1	\$127,664,000	\$165,963,000		
	Phase 2	\$218,957,000	\$284,644,000		
Sears Island	Phase 1	\$76,576,000	\$99,548,000		
Sears Island	Phase 2	\$141,820,000	\$184,365,000		

* Estimated Construction Cost includes all material, labor and equipment to complete the work and indirect costs including Contractor Supervision, Corporate Overhead and Profit, and Bonds and Insurance costs.

** MN TPC includes the construction cost subtotal with a project contingency of 30%.

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Mack Point Phase 1

Item	Description	Quantity	Unit	Unit Price	Subtotal	TOTAL
1	Contractor Mobilization/Demobilization					\$2,782,000
1.1	Mobilization	1	ls	\$2,782,000	\$2,782,000	
2	Earth Retention Structures					\$21,188,066
2.1	Installation of Steel Cellular Cofferdams (Includes fill and relieving platform)	632	lf	\$27,861	\$17,608,317	
2.2	Placement of Embankment Armor Stone	22,929	ton	\$150	\$3,439,308	
2.3	Placement of Embankment Underlayer Stone	1,404	ton	\$100	\$140,440	
3	Earth Fill, Dredge and Soil Improvments					\$47,776,417
3.1	Dredge (with Amendment)	613,740	<u></u>	\$70	\$42,961,800	\$47,776,417
3.1	Placement of Soils in Infill Area	368,655	су	\$70	\$1,198,129	
3.2 3.3			су	\$3.25 \$54.00		
3.3	Imported Soil for Embankments	66,972	су	\$54.00	\$3,616,488	
4	Uplands					\$19,014,957
4.1	Site Demolition	1	LS	\$250,000.00	\$250,000	
4.2	Grading and Compaction of Uplands Soils	1,316,962	sf	\$0.18	\$237,053	
4.3	Installation of Dense Graded Aggregate Topping Surface	180,103	су	\$64.00	\$11,526,606	
4.4	Site Stormwater system	30	ac	\$100,000	\$3,023,317	
4.5	Site Water system	30	ac	\$20,000	\$604,663	
4.6	Site Electrical system	30	ac	\$100,000	\$3,023,317	
4.7	Rerouting of southern rail spur	3,500	lf	\$100	\$350,000	
-	No. dog Baladaa					A4 750 000
5	Mooring Dolphins	0		075 000	A 4 750 000	\$1,750,000
5.1	20'x20' Dolphins for Floating Asset	2	ea	\$875,000	\$1,750,000	
6	Remediation					\$3,000,000
6.1	Remediation/In Ground Debris	1	ls	\$3,000,000	\$3,000,000	
	Subtotal Costs					\$95,511,439
						\$00,011,400
7	Construction Indirects					\$32,152,000
7.1	Supervision (General Conditions)	12	%		\$11,462,000	
7.2	Bonds & Insurance	2	%		\$2,140,000	
7.3	Corporate Overhead & Profit	17	%		\$18,550,000	
	Total Construction Costs					\$127,663,439
	0					****
8	Contingency	30	%		38,299,032	\$38,299,032
-	Total Project Cost				50,200,002	\$165,962,471
						÷.00,002,471





Mack Point

Phase 1

- Notes: 1) Pricing is based on US dollars.
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 - 3) Price is based on aerial diagrams of site.
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 - 5) Price is based on unencumbered contractor access to the site.
 - 6) Price does not include any costs for construction site property lease or acquisition expenses.
 - 7) No extreme weather risk included (force majeure).
 - 8) Minimal geotechnical information is available at this time.
 - 9) Cost escalation is not included.
 - 10) Price does not include environmental restrictions.
 - 11) Price does not include any associated costs due to hazardous waste.
 - 12) Price does not include any associated costs due to rock dredging.
 - 13) Price does not include any associated costs due to pile driving/drilling into rock.
 - 14) Price does not include any costs for post construction site remediation or reconstruction
 - 15) Costs for owner's project management or overhead expenses are not included.

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Mack Point Phase 2

Item	Description	Quantity	Unit	Unit Price	Subtotal	TOTAL
1	Contractor Mobilization/Demobilization					\$4,772,000
1.1	Mobilization	1	ls	\$4,772,000	\$4,772,000	
2	Earth Retention Structures					\$49,449,999
2.1	Installation of Steel Cellular Cofferdams (Includes fill and relieving platform)	1,563	lf	\$29,437	\$46,010,649	
2.2	Placement of Embankment Armor Stone	22,019	ton	\$150	\$3,302,921	
2.3	Placement of Embankment Underlayer Stone	1,364	ton	\$100	\$136,429	
3	Earth Fill, Dredge and Soil Improvments					\$75,413,323
3.1	Dredge (with Amendment)	848,139	су	\$70	\$59,369,763	
3.2	Placement of Soils in Infill Area	848,139	су	\$3.25	\$2,756,453	
3.3	Imported Soil for Infill	181,257	су	\$54.00	\$9,787,853	
3.4	Imported Soil for Embankments	64,801	су	\$54.00	\$3,499,254	
4	Uplands					\$29,178,332
4.1	Site Demolition	1	LS	\$350,000.00	\$350,000	\$29,170,332
4.2	Grading and Compaction of Uplands Soils	1,738,464	sf	\$0.18	\$312,924	
4.3	Installation of Dense Graded Aggregate Topping Surface	302,896	су	\$64.00	\$19,385,323	
4.4	Site Stormwater system	40	ac	\$100,000	\$3,990,948	
4.5	Site Water system	40	ac	\$20,000	\$798,190	
4.6	Site Electrical system	40	ac	\$100,000	\$3,990,948	
4.7	Rerouting of southern rail spur	3,500	lf	\$100	\$350,000	
-	Based					AE 000 000
5	Remediation	4		# 5,000,000	# 5,000,000	\$5,000,000
5.1	Remediation/In Ground Debris	1	ls	\$5,000,000	\$5,000,000	
	Subtotal Costs					\$163,813,654
6	Construction Indirects					\$55,143,000
6.1	Supervision (General Conditions)	12	%		\$19,658,000	,,
6.2	Bonds & Insurance	2	%		\$3,670,000	
6.3	Corporate Overhead & Profit	17	%		\$31,815,000	
	Total Construction Costs					\$218,956,654
						,,
7	Contingency					\$65,686,996
		30	%		\$ 65,686,996	. , ,
	Total Project Cost					\$284,643,650





Mack Point

Phase 2



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 - 7) No extreme weather risk included (force majeure).
 - 8) Minimal geotechnical information is available at this time.
 - 9) Cost escalation is not included.
 - 10) Price does not include environmental restrictions.
 - 11) Price does not include any associated costs due to hazardous waste.
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Opinion of Probable Cost



Sears Island

Phase 1

Item	Description	Quantity	Unit	Unit Price	Subtotal	TOTAL
1	Contractor Mobilization/Demobilization					\$1,669,000
1.1	Mobilization	1	ls	\$1,669,000	\$1,669,000	
2	Earth Retention Structures					\$21,718,182
2.1	Installation of Steel Cellular Cofferdams (Includes fill and relieving platform)	632	lf	\$27,974	\$17,679,387	<i>•</i> ,•.•,••=
2.2	Placement of Embankment Armor Stone	25,884	ton	\$150	\$3,882,605	
2.3	Placement of Embankment Underlayer Stone	1,562	ton	\$100	\$156,190	
3	Earth Cut / Fill and Soil Improvments					\$7,098,740
3.1	Clear Site	30	ac	\$10,000	\$299,967	, ,, .
3.2	Soil Cut from Uplands	754,999	су	\$5	\$3,774,994	
3.3	Placement of Soils in Infill Area	314,554	cy	\$3.25	\$1,022,301	
3.4	Placement of Soil Surcharge	231,385	cy	\$3.25	\$752,001	
3.5	Removal of Soil Surcharge	208,246	су	\$6	\$1,249,478	
4	Uplands					\$23,053,145
4.1	Grading and Compaction of Uplands Soils	1,306,663	sf	\$0.18	\$235,199	+_0,000,110
4.2	Installation of Dense Graded Aggregate Topping Surface	175,292	су	\$64	\$11,218,666	
4.3	Site Stormwater system	30	ac	\$100,000	\$2,999,673	
4.4	Site Water system	30	ac	\$20,000	\$599,935	
4.5	Site Electrical system	30	ac	\$100,000	\$2,999,673	
4.6	Pulling Utilities from Providers onto Island	1	ls	\$5,000,000	\$5,000,000	
5	Mooring Dolphins					\$1,750,000
5.1	20'x20' Dolphins for Floating Asset	2	ea	\$875,000	\$1,750,000	<i><i><i>q</i></i> 1,100,000</i>
6	Remediation					\$2,000,000
6.1	Remediation/In Ground Debris	1	ls	\$2,000,000	¢2,000,000	\$2,000,000
0.1	Remediation/in Ground Debits	I	15	\$2,000,000	\$2,000,000	
	Subtotal Costs					\$57,289,068
7	Construction Indirects					\$19,286,000
7.1	Supervision (General Conditions)	12	%		\$6,875,000	
7.2	Bonds & Insurance	2	%		\$1,284,000	
7.3	Corporate Overhead & Profit	17	%		\$11,127,000	
	Total Construction Costs					\$76,575,068
8	Contingency	30	%		\$22,972,520	\$22,972,520
		50	70		ΨΖΖ,31Ζ,320	AAA =
	Total Project Cost					\$99,547,588



Sears Island

Phase 1



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Opinion of Probable Cost



Sears Island

Phase 2

ltem	Description	Quantity	Unit	Unit Price	Subtotal	TOTAL
1	Contractor Mobilization/Demobilization					\$3,091,000
1.1	Mobilization	1	ls	\$3,091,000	\$3,091,000	
2	Earth Retention Structures					\$49,355,394
2.1	Installation of Steel Cellular Cofferdams (Includes fill and relieving platform)	1,563	lf	\$28,198	\$44,072,922	
2.2	Placement of Embankment Armor Stone	33,938	ton	\$150	\$5,090,749	
2.3	Placement of Embankment Underlayer Stone	1,917	ton	\$100	\$191,724	
3	Earth Cut / Fill and Soil Improvments					\$15,492,725
3.1	Clear Site	44	ac	\$10,000	\$436,829	. , ,
3.2	Soil Cut from Uplands	1,213,925	су	\$5	\$6,069,624	
3.4	Placement of Soils in Infill Area	838,658	су	\$3.25	\$2,725,639	
3.5	Placement of Soil Surcharge	723,773	су	\$3.25	\$2,352,261	
3.6	Removal of Soil Surcharge	651,395	cy	\$6	\$3,908,372	
4	Uplands					\$34,413,066
4.1	Grading and Compaction of Uplands Soils	1,902,834	sf	\$0.18	\$342,510	<i>Q</i> QQQQQQQQQQQQQ
4.2	Installation of Dense Graded Aggregate Topping Surface	304,068	су	\$64	\$19,460,324	
4.3	Site Stormwater system	44	ac	\$100,000	\$4,368,287	
4.4	Site Water system	44	ac	\$20,000	\$873,657	
4.5	Site Electrical system	44	ac	\$100,000	\$4,368,287	
4.6	Pulling Utilities from Providers onto Island	1	ls	\$5,000,000	\$5,000,000	
5	Remediation					\$3,750,000
5.1	Remediation/In Ground Debris	1	ls	\$3,750,000	\$3,750,000	<i>Q</i> QQQQQQQQQQQQQ
	Subtotal Costs					\$106,102,185
						ψ100,102,10 3
6	Construction Indirects					\$35,717,000
6.1	Supervision (General Conditions)	12	%		\$12,733,000	
6.2	Bonds & Insurance	2	%		\$2,377,000	
6.3	Corporate Overhead & Profit	17	%		\$20,607,000	
	Total Construction Costs					\$141,819,185
7	Contingency					\$42,545,756
		30	%		42,545,756	÷-12,0-+0,700
	Total Project Cost					\$184,364,941



Sears Island

Phase 2



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