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.
 - 2) Volumes for site preparation are based on M&N understanding of site conditions, no survey information is available at this time.
 - 3) Price is based on aerial diagrams of site.
 - 4) Pricing assumes all resources are readily available locally.
 - 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.

- The costs have been developed based on historical and current data using in-house sources.
- A contingency amount has been included to cover undefined items, due to the level of engineering carried out at this time. The contingency is not a reflection of the accuracy of the estimates but covers items of work which will have to be performed, and elements of costs which will be incurred, but which are not explicitly detailed or described due to the level of investigation, engineering and estimating completed today.
- This construction cost estimate is an 'Opinion of Probable Cost' made by a consultant. In providing opinions of construction cost, it is recognized that neither the client nor the consultant has control over the cost of labor, equipment, materials, or the contractor's means and methods of determining constructability, pricing or schedule. This opinion of construction cost is based on the consultant's reasonable professional judgement and experience and does not constitute a warranty, expressed or implied, that contractor's bids or negotiated prices for the work will not vary from the client's.



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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



- Notes: 1) Pricing is based on US dollars.
 - 2) Volumes for site preparation are based on M&N understanding of site conditions, no survey information is available at this time.
 - 3) Price is based on aerial diagrams of site.
 - 4) Pricing assumes all resources are readily available locally.
 - 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.

- The costs have been developed based on historical and current data using in-house sources.
- A contingency amount has been included to cover undefined items, due to the level of engineering carried out at this time. The contingency is not a reflection of the accuracy of the estimates but covers items of work which will have to be performed, and elements of costs which will be incurred, but which are not explicitly detailed or described due to the level of investigation, engineering and estimating completed today.
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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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 - 4) Pricing assumes all resources are readily available locally.
 - 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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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



- Notes: 1) Pricing is based on US dollars.
 - 2) Volumes for site preparation are based on M&N understanding of site conditions, no survey information is available at this time.
 - 3) Price is based on aerial diagrams of site.
 - 4) Pricing assumes all resources are readily available locally.
 - 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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