## ADDENDUM No. 4 SOLID WASTE DISPOSAL DISTRICT INDIAN RIVER COUNTY LANDFILL PHASE 2 - CELL 3 - SEGMENT 3 EXPANSION (11.5 AC.) ENGINEER'S ESTIMATE

Item No.	eral Site Pi	Work Description/Item	Units	Estimated Quantity	Ur	iit Cost (\$)		Total Cost (\$)
1		and Demobilization (not-to-exceed 5% of total bid) (Note I)	IS	1	\$	250,000.00	\$	250,000.00
2		As-Built Drawings (Note II)	LS	1	\$	54,000.00	\$	54,000.00
_		···· - ·······························	20	Subtotal Site			\$	304,000.00
Earth	hwork (Inc	cludes Grading and In-place Compaction Note III)				- -		,
3	General and	Structural Fill						
	A.	Site Grading and Leveling of Top of Liner Subbase Prior to Geosynthetics Installation (Primarily Cut)	cyd	1,400	\$	16.50	\$	23,100.00
				Subtot	al Ea	rthwork =	\$	23,100.00
Cell 3	Liner System (Note IV)						-	
4	Liner Protec			26.000	é	1.5.50	¢	504 000 00
	A. B.	24-in. Liner Protective Layer with Grading and Compaction	cyd	36,000 1,200	\$	16.50 16.50	\$ \$	594,000.00 19,800.00
	В. С.	Intercell Separation Berm	cyd	1,200	\$ \$	16.50	5	28,050.00
5		Temporary Intercell Berm with Rain Flap	cyd	499,500	\$ \$	16.50	\$ ¢	499,500.00
-		composite Drainage Layer	sq ft		\$ \$	1.17	\$ \$	584,415.00
6		nil Textured HDPE Geomembrane Jeocomposite Drainage Layer	sq ft sq ft	499,500 499,500	\$ \$	1.17	\$ \$	499,500.00
8		0 mil Textured HDPE Geomembrane		499,500	\$ \$	1.17	\$ \$	584,415.00
9	Geosynthetic		sq ft sq ft	499,500	\$ \$	1.17	s s	679,320.00
10		eak Location Survey	LS	499,500	ې د	35,000.00	ş	35,000.00
10		n Tie-in (Extrusion Weld/Double-track Fusion Weld)	LS	1,300	\$	12.50	ş	16,250.00
12	Geomembra		LI	1,500	\$	12.50	φ	10,250.00
12	A.	Geomembrane Rainflap	sq ft	37,100	\$	1.17	\$	43,407.00
		Extrusion Weld - Geomembrane Sacrificial Rainflap to Primary HDPE	LF		-		¢	
	В.	Geomembrane		1,300	\$	9.00	\$	11,700.00
13	Anchor Trer	nch	LF	2,900	\$	9.00	\$	26,100.00
			;	Subtotal Cell 3	Line	r System =	\$	3,621,457.00
Leach	hate Collec	ction & Detection System	•	1	-		-	
14	LCS Corrido							
	Α.	Granular Drainage Material (AASHTO No. 57)	cyd	1,000	\$	150.00	\$	150,000.00
	B.	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam	sq yd	900	\$	4.00	\$	3,600.00
15		onal Geonet Drainage Layer in Corridor	sq yd	1,920	\$	9.00	\$	17,280.00
16		ar Drainage Material (AASHTO No. 4)	cyd	80	\$	200.00	\$	16,000.00
17	Detection +	SDR 17 Solid HDPE Carrier Pipe (Leachate Collection + Leachate Leachate Gravity Line + Horizontal Direction Drill)	LF	510	\$	115.00	\$	58,650.00
18	Detection +	SDR 21 Solid HDPE Containment Pipe (Leachate Collection + Leachate Leachate Gravity Line + Horizontal Direction Drill)	LF	510	\$	115.00	\$	58,650.00
19		SDR 17 LDS Perforated Pipe & Fittings	LF	350	\$	115.00	\$	40,250.00
20		SDR 17 LCS Perforated Pipe & Fittings	LF	1,300	\$	115.00	\$	149,500.00
21	Toe Drain (1				_		_	
	A.	6-in Dia. SDR 17 Perforated HDPE Pipe	LF	1,250	\$	115.00	s	143,750.00
	В.	Toe Drain Connector and Reducer	each	2	\$ \$	650.00 150.00	\$ \$	1,300.00 30,000.00
		Granular Drainaga Matarial (AASHTON- 57)	ar1	200			Ф	6,240.00
	C.	Granular Drainage Material (AASHTO No. 57)	cyd	200	*		s	0,240.00
22	D.	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam	sq yd	1,560	\$	4.00	\$	
22	D. Jet Cleaning	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS	sq yd LS	1,560	\$ \$	4.00 11,350.00	\$ \$	11,350.00
23	D. Jet Cleaning Trenches wi	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements	sq yd LS LF	1,560 1 300	\$ \$ \$	4.00 11,350.00 8.00	\$ \$ \$	11,350.00 2,400.00
23 24	D. Jet Cleaning Trenches wi Excavation,	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements Grading, and Compaction for Sump	sq yd LS LF LS	1,560 1 300	\$ \$ \$ \$	4.00 11,350.00 8.00 1,428.00	\$	11,350.00 2,400.00 1,428.00
23 24 25	D. Jet Cleaning Trenches wi Excavation, 10-in. Dia. H	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements Grading, and Compaction for Sump Perforated Leachate Detection Manifold	sq yd LS LF	1,560 1 300	\$ \$ \$	4.00 11,350.00 8.00		11,350.00 2,400.00
23 24	D. Jet Cleaning Trenches wi Excavation,	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements Grading, and Compaction for Sump Perforated Leachate Detection Manifold Cleanout 10-in. Dia. Solid SDR-17 LCS Cleanout Pipe with Gasket, Secure Boot	sq yd LS LF LS	1,560 1 300	\$ \$ \$ \$	4.00 11,350.00 8.00 1,428.00	\$	11,350.00 2,400.00 1,428.00
23 24 25	D. Jet Cleaning Trenches wi Excavation, 10-in. Dia. I LCS & LDS A.	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements Grading, and Compaction for Sump Perforated Leachate Detection Manifold Cleanout 10-in. Dia. Solid SDR-17 LCS Cleanout Pipe with Gasket, Secure Boot and all other Fittings	sq yd LS LF LS each LF	1,560 1 300 1 1 20	\$ \$ \$ \$ \$	4.00 11,350.00 8.00 1,428.00 10,000.00 125.00	\$ \$ \$	11,350.00 2,400.00 1,428.00 10,000.00 2,500.00
23 24 25	D. Jet Cleaning Trenches wi Excavation, 10-in. Dia. H LCS & LDS	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements Grading, and Compaction for Sump Perforated Leachate Detection Manifold Cleanout 10-in. Dia. Solid SDR-17 LCS Cleanout Pipe with Gasket, Secure Boot and all other Fittings 47X57X5° Fiber Reinforced Concrete Collar 10-in. Dia. Solid SDR-17 LDS Cleanout Pipe with Gasket, Secure Boot	sq yd LS LF LS each	1,560 1 300 1 1	\$ \$ \$ \$ \$	4.00 11,350.00 8.00 1,428.00 10,000.00	\$ \$	11,350.00 2,400.00 1,428.00 10,000.00
23 24 25	D. Jet Cleaning Trenches wi Excavation, 10-in. Dia. I LCS & LDS A. B. C.	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements Grading, and Compaction for Sump erforated Leachate Detection Manifold Cleanout 10-in. Dia. Solid SDR-17 LCS Cleanout Pipe with Gasket, Secure Boot and all other Fittings 4%5%S*r Fiber Reinforced Concrete Collar 10-in. Dia. Solid SDR-17 LDS Cleanout Pipe with Gasket, Secure Boot and all other Fittings	sq yd LS LF each LF each LF	1,560 1 300 1 1 20 3 130	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4.00 11,350.00 8.00 1,428.00 10,000.00 125.00 629.68 125.00	\$ \$ \$ \$	11,350.00 2,400.00 1,428.00 10,000.00 2,500.00 1,889.04 16,250.00
23 24 25	D. Jet Cleaning Trenches wi Excavation, 10-in. Dia. I LCS & LDS A. B. C. D.	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements Grading, and Compaction for Sump Perforated Leachate Detection Manifold Cleanout 10-in. Dia. Solid SDR-17 LCS Cleanout Pipe with Gasket, Secure Boot and all other Fittings LCS & LDS Cleanout Cap and fittings	sq yd LS LF each LF each LF each	1,560 1,560 1 300 1 1 20 3 130 3	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4.00 11,350.00 8.00 1,428.00 10,000.00 125.00 629.68 125.00 600.00	s s s s s	11,350.00 2,400.00 1,428.00 2,500.00 2,500.00 1,889.04 16,250.00 1,800.00
23 24 25 26	D. Jet Cleaning Trenches wi Excavation, 10-in. Dia. I. LCS & LDS A. B. C. D. E.	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements Grading, and Compaction for Sump Perforated Leachate Detection Manifold Cleanout 10-in. Dia. Solid SDR-17 LCS Cleanout Pipe with Gasket, Secure Boot and all other Fittings 4X5/X5° Fiber Reinforced Concrete Collar 10-in. Dia. Solid SDR-17 LDS Cleanout Pipe with Gasket, Secure Boot and all other Fittings LCS & LDS Cleanout Cap and fittings WYE Fittings for LCS Cleanout	sq yd LS LF LS each LF each LF each each	1,560 1 300 1 1 20 3 130 3 130	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4.00 11,350.00 8.00 1,428.00 10,000.00 125.00 629.68 125.00 600.00 750.00	\$ \$ \$ \$ \$ \$	11,350.00 2,400.00 1,428.00 2,500.00 1,889.04 16,250.00 1,800.00 750.00
23 24 25	D. Jet Cleaning Trenches wi Excavation, 10-in. Dia. F LCS & LDS A. B. C. D. E. Wall Sleeve	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements Grading, and Compaction for Sump Perforated Leachate Detection Manifold Cleanout 10-in. Dia. Solid SDR-17 LCS Cleanout Pipe with Gasket, Secure Boot and all other Fittings 4°X5°X5° Fiber Reinforced Concrete Collar 10-in. Dia. Solid SDR-17 LDS Cleanout Pipe with Gasket, Secure Boot and all other Fittings LCS & LDS Cleanout Cap and fittings WYE Fittings for LCS Cleanout with Mechanical Seal	sq yd LS LF LS each LF each LF each each each	1,560 1 300 1 1 20 3 130 3 130 130 12	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4.00 11,350.00 8.00 1,428.00 10,000.00 125.00 629.68 125.00 600.00 750.00 95.00	s s s s s	11,350.00 2,400.00 1,428.00 2,500.00 2,500.00 1,889.04 16,250.00 1,800.00 750.00 1,140.00
23 24 25 26 27	D. Jet Cleaning Trenches wi Excavation, 10-in. Dia. I LCS & LDS A. B. C. D. E. Wall Sleeve Liner Penetr	Geotextile Filter/Cushion with 2-in. overlap and sewn at seam and Video Inspection of LCS and LDS th Unpaved Easements Grading, and Compaction for Sump Perforated Leachate Detection Manifold Cleanout 10-in. Dia. Solid SDR-17 LCS Cleanout Pipe with Gasket, Secure Boot and all other Fittings 4°X5°X5° Fiber Reinforced Concrete Collar 10-in. Dia. Solid SDR-17 LDS Cleanout Pipe with Gasket, Secure Boot and all other Fittings LCS & LDS Cleanout Cap and fittings WYE Fittings for LCS Cleanout with Mechanical Seal	sq yd LS LF LS each LF each LF each each	1,560 1 300 1 1 20 3 130 3 130	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4.00 11,350.00 8.00 1,428.00 10,000.00 125.00 629.68 125.00 600.00 750.00	s s s s s s s s	11,350.00 2,400.00 1,428.00 2,500.00 1,889.04 16,250.00 1,800.00 750.00

## ADDENDUM №. 4 SOLID WASTE DISPOSAL DISTRICT INDIAN RIVER COUNTY LANDFILL PHASE 2 - CELL 3 - SEGMENT 3 EXPANSION (11.5 AC.) ENGINEER'S ESTIMATE

Item No.		Work Description/Item	Units	Estimated Quantity	Ur	nit Cost (S)		Total Cost (\$)
31	Electrical, C	Control Panel, Grounding & Lightning Protection (Note V)	LS	1	\$	45,000.00	\$	45,000.00
32	LDS Pump	Station Sump Pump	each	1	\$	200,000.00	\$	200,000.00
33	LCS Manhole		each	1	\$	9,000.00	\$	9,000.00
34	Reinforcements around openings		LS	1	\$	5,000.00	\$	5,000.00
35	Liner Markers (Post- 4"x4"x8')		each	2	\$	150.00	\$	300.00
36	Bollard Post with Encasement		each	5	\$	1,100.00	\$	5,500.00
37	Limit of Waste Markers		each	6	\$	25.00	\$	150.00
38	Marker Tap	e	LF	800	\$	5.00	\$	4,000.00
39	Post Mounte	ed Pipe Support	each	2	\$	50.00	\$	100.00
40	8-Ft. Alumi	nium Sign Post with 2-Ft. Dia. Concrete Footing	each	1	\$	450.00	\$	450.00
41	24-in. x 20-	in. Warning Sign	each	1	\$	400.00	\$	400.00
42	Sandbags		each	1,000	\$	12.50	\$	12,500.00
43	Rain Tarp (l	Dura Skirm 12 BV or approved equivalent) with Ropes & Ties	sq ft	334,000	\$	0.30	\$	100,200.00
	Subtotal Leachate Collection Sump =							1,138,127.04
Drain	age Ditch	, Access Road and Entrance Road						
44	Regrading		LF	100	\$	16.00	\$	1,600.00
45	Access Roa	ds and Ramps						
	А.	RCA - Provided by the Client (Labor Only)	cyd	150	\$	60.00	\$	9,000.00
	В.	Stabilizer Material	cyd	100	\$	45.00	\$	4,500.00
46	24-in. by 36	-in. RCP Elliptical Culvert	LF	130	\$	150.00	\$	19,500.00
	Subtotal Drainage Ditch & Access Road =							
Misce	ellaneous							
47	Erosion and	Sediment Controls	LS	1	\$	100,000.00	\$	100,000.00
48	Site Restora	tion including Vegetation	acres	1.35	\$	35,000.00	\$	47,250.00
		ellaneous =	\$	147,250.00				
	SUBTOTAL =							
	15% CONTINGENCY =							
	TOTAL =							

L Mohilization/Demohilization (Item 1) shall include any partial demohilization required for all components of construction specified herein and in the Construction Drawings and Technical Specifications.

The survey activities (Item 2) shall include surveying of existing conditions prior to construction, as-built surveys of subbase, liner protective cover, leachate collection system, a final survey and any surveying needed throughout the duration of the project.

III. Earthwork quantities are in-place compacted quantities. Earthwork pay items include all cost to haul, place, compact, and grade general/structural fill.

All geosynthetic quantities provided are installation quantities for bid estimate purposes. Material supply quantities shall be based on installer take-off estimate, approved by Owner. IV. Supply quantities shall include waste, slope, anchor trench, overlap, and any other adjustment factors necessary to supply all material to complete the work. Install pay quantities will be based on actual square footage verified by 3rd party survey.

V. Includes all material, equipment and labor required to install pumps, piping, meters, valves, and other components/instrumentation at the leachate collection and detection systems and sumps.

Quantities presented herein are estimated quantities and should be verified by Contractor. If quantities are found to be significantly different, Contractor shall notify Construction VI. Manager. Quantities not provided shall be estimated and verified by Contractor. Payment shall be made on surveyed and calculated quantities in accordance with the Technical Specifications.

VII. Toe drain is currently pending permit modification approval by FDEP.