

SAGR System & OPTAER Aeration System WWTP Improvements
 Dale Sanitary District, Outagamie County, Wisconsin
 Project Number: 1-0218-0120
 Bid Opening: November 14, 2019; 10 a.m.
 Engineer: Mary Jo Miller, P.E.



			M-Z Construction, Inc. Livingston, WI		Advance Construction, Inc. Green Bay, WI		Staab Construction Corporation Marshfield, WI	
Item	Description	Quantity	Unit Bid Cost	Total Amount	Unit Bid Cost	Total Amount	Unit Bid Cost	Total Amount
Base Bid 1 - SAGR SYSTEM AND OPTAER AERATION SYSTEM IMPROVEMENTS								
General Work								
1	Lump Sum Mobilization	1.00	\$150,000.00	\$150,000.00	\$38,000.00	\$38,000.00	\$40,000.00	\$40,000.00
2	Lump Sum Construction Access Route Maintenance and Restoration	1.00	\$15,000.00	\$15,000.00	\$40,000.00	\$40,000.00	\$30,000.00	\$30,000.00
General Work Subtotal				\$165,000.00		\$78,000.00		\$70,000.00
Erosion Control and Restoration								
3	Each Tracking Pads	1.00	\$1,500.00	\$1,500.00	\$2,880.00	\$2,880.00	\$3,000.00	\$3,000.00
4	Linear Feet Silt Fence	840.00	\$2.00	\$1,680.00	\$3.00	\$2,520.00	\$5.00	\$4,200.00
5	Lump Sum Seed and Fertilize all Disturbed Areas (and Mulching in areas not receiving EC Matting)	1.00	\$5,000.00	\$5,000.00	\$17,000.00	\$17,000.00	\$20,000.00	\$20,000.00
6	Lump Sum Erosion Control Matting as Shown on Erosion Control Plan	1.00	\$10,000.00	\$10,000.00	\$8,000.00	\$8,000.00	\$10,000.00	\$10,000.00
7	Lump Sum Erosion Control Monitoring, Record Keeping and Termination	1.00	3,000.00	\$3,000.00	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00
Erosion Control and Restoration Subtotal				\$21,180.00		\$35,400.00		\$39,200.00
Sitework								
8	Lump Sum Topsoil Stripping, Stockpiling, Re-Spreading and Fine Grading	1.00	\$20,000.00	\$20,000.00	\$23,000.00	\$23,000.00	\$47,000.00	\$47,000.00
9	Lump Sum Remove Trees	1.00	\$10,000.00	\$10,000.00	\$2,000.00	\$2,000.00	\$1,000.00	\$1,000.00
10	Lump Sum Remove Existing Fencing	1.00	\$2,000.00	\$2,000.00	\$2,200.00	\$2,200.00	\$3,000.00	\$3,000.00
11	Lump Sum Remove and Replace Existing Fencing for Construction Access Route	1.00	\$9,000.00	\$9,000.00	\$3,800.00	\$3,800.00	\$4,000.00	\$4,000.00
12	Lump Sum Earthwork/Excavation (Estimated 1,000 Cubic Yards Cut and 1,750 Cubic Yards Fill)	1.00	\$44,000.00	\$44,000.00	\$35,000.00	\$35,000.00	\$86,295.00	\$86,295.00
13	Linear Feet New Chain Link Fence	350.00	\$45.00	\$15,750.00	\$41.80	\$14,630.00	\$50.00	\$17,500.00
14	Each New Chain Link Fence Gate	1.00	\$3,000.00	\$3,000.00	\$1,800.00	\$1,800.00	\$2,000.00	\$2,000.00
15	Tons 3/4-inch Crushed Aggregate Base Course	100.00	\$20.00	\$2,000.00	\$18.00	\$1,800.00	\$35.00	\$3,500.00
Sitework Subtotal				\$105,750.00		\$84,230.00		\$164,295.00
Sanitary Sewer Improvements								
16	Linear Feet 6-inch PVC Sanitary Sewer	120.00	\$100.00	\$12,000.00	\$85.00	\$10,200.00	\$60.00	\$7,200.00
17	Linear Feet 8-inch PVC Sanitary Sewer	60.00	\$100.00	\$6,000.00	\$90.00	\$5,400.00	\$80.00	\$4,800.00
18	Lump Sum Anti-Seep Collar and Patching Liner for Proposed Sanitary Sewer through Polishing Pond	1.00	\$5,000.00	\$5,000.00	\$3,000.00	\$3,000.00	\$4,000.00	\$4,000.00
19	Linear Feet 8-inch Ductile Iron Sanitary Sewer	28.00	\$125.00	\$3,500.00	\$500.00	\$14,000.00	\$65.00	\$1,820.00
20	Linear Feet 12-inch PVC Sanitary Sewer	502.00	\$90.00	\$45,180.00	\$100.00	\$50,200.00	\$180.00	\$90,360.00
21	Each 6-inch Plug Valves on Proposed Sanitary Sewer	8.00	\$1,900.00	\$15,200.00	\$2,700.00	\$21,600.00	\$2,500.00	\$20,000.00
22	Each 8-inch Plug Valves on Existing Sanitary Sewer	2.00	\$2,700.00	\$5,400.00	\$4,150.00	\$8,300.00	\$5,500.00	\$11,000.00
23	Each 8-Inch Tee on Existing Sanitary Sewer	1.00	\$1,500.00	\$1,500.00	\$1,560.00	\$1,560.00	\$1,000.00	\$1,000.00
24	Each 8-inch Plug Valves on Proposed Sanitary Sewer	1.00	\$2,500.00	\$2,500.00	\$4,100.00	\$4,100.00	\$4,000.00	\$4,000.00
25	Vertical Feet Sanitary Manholes (Typical)	32.00	\$100.00	\$3,200.00	\$400.00	\$12,800.00	\$600.00	\$19,200.00
26	Each Sanitary Manhole Castings	5.00	\$600.00	\$3,000.00	\$730.00	\$3,650.00	\$700.00	\$3,500.00
27	Lump Sum SAGR Influent Flow Splitter Structure	1.00	\$8,000.00	\$8,000.00	\$8,500.00	\$8,500.00	\$9,000.00	\$9,000.00
28	Lump Sum SAGR Effluent Level Control Manhole	1.00	\$10,000.00	\$10,000.00	\$13,000.00	\$13,000.00	\$8,000.00	\$8,000.00
29	Lump Sum Modifications to Existing MH 11	1.00	\$2,000.00	\$2,000.00	\$5,500.00	\$5,500.00	\$1,500.00	\$1,500.00
30	Lump Sum Connect New Sanitary Sewer to Existing Pipe at Effluent Flow Metering Structure	1.00	\$3,000.00	\$3,000.00	\$4,000.00	\$4,000.00	\$3,000.00	\$3,000.00
Sanitary Sewer Improvements Subtotal				\$125,480.00		\$165,810.00		\$188,380.00
Blowers and Piping								
31	Each Coordinate Delivery, Store, and Install 10 Hp Blowers Provided by Nexom	3.00	\$2,000.00	\$6,000.00	\$4,200.00	\$12,600.00	\$5,000.00	\$15,000.00
32	Linear Feet 3-inch Galvanized Steel Blower Discharge Piping -- Above Ground	32.00	\$100.00	\$3,200.00	\$400.00	\$12,800.00	\$500.00	\$16,000.00
33	Linear Feet 3-inch Schedule 80 PVC Blower Intake Piping	35.00	\$80.00	\$2,800.00	\$100.00	\$3,500.00	\$50.00	\$1,750.00
34	Lump Sum Pipe Supports	1.00	\$1,200.00	\$1,200.00	\$2,500.00	\$2,500.00	\$3,000.00	\$3,000.00
35	Each 3-inch Butterfly Valve with Lever Lock Handle	7.00	\$1,800.00	\$12,600.00	\$2,160.00	\$15,120.00	\$2,500.00	\$17,500.00
Blowers and Piping Subtotal				\$25,800.00		\$46,520.00		\$53,250.00
Aeration System								
36	Linear Feet 3-inch Galvanized Steel Buried Blower Discharge Piping	90.00	\$100.00	\$9,000.00	\$90.00	\$8,100.00	\$100.00	\$9,000.00
37	Linear Feet 4-inch HDPE Buried Main Air Header Piping	700.00	\$45.00	\$31,500.00	\$35.00	\$24,500.00	\$80.00	\$56,000.00
38	Each 4-inch Butterfly Valves	3.00	\$1,500.00	\$4,500.00	\$2,500.00	\$7,500.00	\$3,000.00	\$9,000.00
39	Lump Sum Coordinate Delivery, Store and Install all OPTAER Aeration Equipment Provided by Nexom	1.00	\$25,000.00	\$25,000.00	\$48,000.00	\$48,000.00	\$14,000.00	\$14,000.00
Aeration System Subtotal				\$70,000.00		\$88,100.00		\$88,000.00

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SAGR System								
40	Lump Sum Sacrificial Wood Basin Walls	1.00	\$15,000.00	\$15,000.00	\$100,000.00	\$100,000.00	\$23,000.00	\$23,000.00
41	Square Yards Geomembrane Liner	885.00	\$50.00	\$44,250.00	\$56.00	\$49,560.00	\$70.00	\$61,950.00
42	Linear Feet 4-inch Aeration Distribution Laterals	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100.00	\$0.00
43	Each Lateral Aeration Control Valves	8.00	\$2,000.00	\$16,000.00	\$2,475.00	\$19,800.00	\$3,000.00	\$24,000.00
44	Lump Sum Provide and Install Pipe Boots for Penetration through SAGR Liner	1.00	\$5,000.00	\$5,000.00	\$1,725.00	\$1,725.00	\$2,000.00	\$2,000.00
45	Tons SAGR System Aggregate	2,625.00	\$50.00	\$131,250.00	\$24.00	\$63,000.00	\$30.00	\$78,750.00
46	Square Yards Non-Woven Geotextile Protective Fabric on Bottom and Sides of SAGR Cell	885.00	\$13.00	\$11,505.00	\$14.00	\$12,390.00	\$15.00	\$13,275.00
47	Square Yards Non-Woven Geotextile Protective Fabric Between Granular and Wood Chip Layers	550.00	\$4.00	\$2,200.00	\$5.50	\$3,025.00	\$10.00	\$5,500.00
48	Lump Sum for Wood Chips for Insulating Layer	1.00	\$10,000.00	\$10,000.00	\$9,500.00	\$9,500.00	\$8,000.00	\$8,000.00
49	Lump Sum Coordinate Delivery, Store and Install all SAGR System Equipment Provided by Nexom	1.00	\$40,000.00	\$40,000.00	\$69,000.00	\$69,000.00	\$40,000.00	\$40,000.00
SAGR System Subtotal				\$275,205.00		\$328,000.00		\$256,475.00
Architectural Improvements								
50	Lump Sum Extend Two Existing Blower Pads	1.00	\$2,000.00	\$2,000.00	\$1,400.00	\$1,400.00	\$1,000.00	\$1,000.00
51	Lump Sum Provide One New Blower Pad	1.00	\$2,000.00	\$2,000.00	\$1,400.00	\$1,400.00	\$2,500.00	\$2,500.00
52	Lump Sum Remove Existing Blower Intake Piping and Vent	1.00	\$1,200.00	\$1,200.00	\$1,000.00	\$1,000.00	\$500.00	\$500.00
53	Each Provide Wall Openings for Proposed Blower Piping	5.00	\$750.00	\$3,750.00	\$300.00	\$1,500.00	\$1,000.00	\$5,000.00
54	Lump Sum Remove Existing Blowers and Blower Discharge Piping, and Repair Wall	1.00	\$2,500.00	\$2,500.00	\$7,500.00	\$7,500.00	\$5,000.00	\$5,000.00
55	Lump Sum Provide New Interior Wall Opening	1.00	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00	\$5,000.00	\$5,000.00
56	Lump Sum Provide and Install Adjustable Louvers	1.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$6,000.00	\$6,000.00
57	Lump Sum Provide and Install Wall Axial Exhaust Fan	1.00	\$2,500.00	\$2,500.00	\$3,000.00	\$3,000.00	\$12,000.00	\$12,000.00
58	Lump Sum Provide and Install Electric Unit Heater	1.00	\$2,000.00	\$2,000.00	\$2,380.00	\$2,380.00	\$1,000.00	\$1,000.00
59	Lump Sum Fill Existing Scale Pit with Concrete	1.00	\$3,000.00	\$3,000.00	\$1,200.00	\$1,200.00	\$400.00	\$400.00
60	Lump Sum Insulated Galvanized Hood over Blower Intake Piping	1.00	\$4,000.00	\$4,000.00	\$1,700.00	\$1,700.00	\$2,000.00	\$2,000.00
61	Lump Sum Abandon Chlorine Contact Tank	1.00	\$5,000.00	\$5,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
Architectural Improvements Subtotal				\$33,450.00		\$37,080.00		\$50,400.00
Electrical Improvements								
62	Lump Sum Electrical Improvements by Contractor and Installation of Control Equipment Provided by P.J. Kortens (Includes Coordination of Delivery and Storage of Equipment)	1.00	\$40,000.00	\$40,000.00	\$31,796.00	\$31,796.00	\$33,000.00	\$33,000.00
Electrical Improvements Subtotal				\$40,000.00		\$31,796.00		\$33,000.00
TOTAL PROPOSAL BASE BID 1				\$861,865.00		\$894,936.00		\$943,000.00
Proposed Subcontractors				None Listed		August Winter - Mech. Patriot Fence - Fence		Pieper - Electrical