

**WQCF DIGESTER IMPROVEMENTS PROJECT**

Engineers Estimate \$18,500,000

August 17, 2016

**WESTERN WATER CONSTRUCTORS, INC. - SANTA ROSA, CA**

<b>ITEM NO.</b>	<b>ITEM DESCRIPTION</b>	<b>BID QTY</b>	<b>UNIT</b>	<b>UNIT COST</b>	<b>TOTAL COST</b>
1	Mobilization, submittals, bonds, licenses, permits, fees, and insurance (maximum of 4% of total bid amount)	1	LS	\$800,000.00	\$800,000.00
2	SWPP Permit and Erosion Control	1	LS	\$44,000.00	\$44,000.00
3	Installation of On-Site Dewatering, Dewatering Pipeline, Continuous Operation, and Disposal of Water in Approved Manner	1	LS	\$164,000.00	\$164,000.00
4	Temporary Facilities, Temporary Power, Fences Roads, and Protection Of the Work	1	LS	\$215,000.00	\$215,000.00
5	Temporary Bypassing of Sludge and Other Bypassing to Facilitate Construction.	1	LS	\$46,000.00	\$46,000.00
6	Site Work, Clearing, Grubbing, Tree Removal, and Potholing	1	LS	\$77,000.00	\$77,000.00
7	Demolition and Removal of Existing Sludge Drying Beds, Walls, Asphalt, and Miscellaneous Yard Piping and Fencing.	1	LS	\$128,000.00	\$128,000.00
8	Demolition of Digester Effluent Transfer Structure, Equipment, Piping, and Electrical.	1	LS	\$13,000.00	\$13,000.00
9	Stone Column Densification at Soil Mitigation Area Including Verification Testing.	1	LS	\$383,000.00	\$383,000.00
10	Purchase and Hauling of Required Import Material for the Project. (Quantity includes factor for consolidation and compaction.)	21,250	CY	\$12.00	\$255,000.00
11	General Excavation, Grading, Site Work, Placement and Compaction of Import Fill and Native Materials for All Site Rough Grading.	1	LS	\$410,000.00	\$410,000.00
12	General Fine Grading, Placement and Compaction of Base Rock, Gravel, and Other Finish Grade Materials in All Areas.	1	LS	\$432,000.00	\$432,000.00
13	All Asphalt Paving, Overlay, Patching, and Repair.	1,650	TON	\$137.00	\$226,050.00
14	Pavement Markings White Thermoplastic.	389	SF	\$8.00	\$3,112.00
15	Pavement Markings Yellow Thermoplastic.	256	SF	\$8.00	\$2,048.00
16	Pavement Markings White Paint - 4" Fog line.	1,793	LF	\$1.00	\$1,793.00
17	Street Signage.	1	LS	\$12,000.00	\$12,000.00
18	Installation of Natural Gas Line From Yosemite to Gas Meter Including Trenching, Backfill, and Asphalt Patch Repair.	1	LS	\$91,000.00	\$91,000.00
19	Installation of Landscape Irrigation System.	1	LS	\$16,000.00	\$16,000.00
20	Installation of Landscaping and Rock in Landscape Areas.	1	LS	\$18,000.00	\$18,000.00
21	Installation of Chain Link Fence at All Locations.	713	LF	\$65.00	\$46,345.00
22	Cleaning and Removal of Sludge and Grit from Digesters No. 1 and No. 2.	1	LS	\$62,000.00	\$62,000.00
23	Demolition of all Existing Piping, Supports, Pumps, Mechanical and Electrical Equipment, Conduit and Supports at Digester Control Building No 1.	1	LS	\$70,000.00	\$70,000.00
24	Demolition of Concrete Roofs at Digester No.1 and No. 2 and Miscellaneous Handrail, Piping and Supports at Digester No. 1 and No. 2.	1	LS	\$181,000.00	\$181,000.00
25	Installation of Concrete for Digester No. 3 and No. 4.	1	LS	\$1,301,000.00	\$1,301,000.00

26	Installation of Concrete Trenches.	1	LS	\$44,000.00	\$44,000.00
27	Installation of Concrete Repairs, (Except Crack Repair) and Concrete Walkways at Digesters No. 1 and No. 2	1	LS	\$308,000.00	\$308,000.00
28	Installation of Concrete Crack Repair at Digesters No. 1 and No. 2	500	LF	\$120.00	\$60,000.00
29	Installation of Miscellaneous Concrete Pads and Walls for, Sludge Beds, FOG, Food Waste, Gas Conditioning, Flare, Chemical Facilities, Walkways, and Any Other Miscellaneous Concrete.	1	LS	\$265,000.00	\$265,000.00
30	Installation of Floating Gas Holder Covers at Digester No. 3 and No. 4, Including Insulation and Coating.	1	LS	\$843,000.00	\$843,000.00
31	Installation of Fixed covers at Digesters No. 1 and No. 2, Including Insulation and Coating.	1	LS	\$687,000.00	\$687,000.00
32	Installation of CMU Block Walls and Grouting at Digester Control Building No. 2.	9,407	SF	\$27.00	\$253,989.00
33	Installation of Metal Framing, Columns, and Roof Decking at Digester Control Building No. 2.	1	LS	\$266,000.00	\$266,000.00
34	Installation of Guardrail at All Locations	1	LS	\$117,000.00	\$117,000.00
35	Installation of Aluminum Grating, Supports, and Rebates at All Locations	1	LS	\$47,000.00	\$47,000.00
36	Installation of Metal Stairs and Walkways at All Locations	1	LS	\$146,000.00	\$146,000.00
37	Installation of All Other Miscellaneous Metal Work Not Listed Above	1	LS	\$227,000.00	\$227,000.00
38	Installation of Roofing Insulation, TPO Membrane, and Flashing at Digester Control Building No. 2.	1	LS	\$165,000.00	\$165,000.00
39	Installation of Roll Up doors, Man Doors and Hardware at Digester Control Building No. 2.	1	LS	\$65,000.00	\$65,000.00
40	Installation all HVAC for Digester Control Building No. 2	1	LS	\$146,000.00	\$146,000.00
41	Installation of Fire Alarm Control System and Fire Sprinkler System for Digester Control Building No. 2.	1	LS	\$86,000.00	\$86,000.00
42	Installation of FRP Grating and FRP Supports in All Locations	1	LS	\$14,000.00	\$14,000.00
43	Installation of all Mechanical Equipment and Relocation of Air Compressor Equipment in Digester Control Building No. 2.	1	LS	\$810,000.00	\$810,000.00
44	Installation of All Mechanical Piping, Valves, Pipe Insulation, and Supports at Digester Control Building No. 2.	1	LS	\$779,000.00	\$779,000.00
45	Installation of Digester Mixers at Digesters No. 1., No. 2, No. 3, and No. 4.	1	LS	\$850,000.00	\$850,000.00
46	Installation of All Piping, Valves, Pipe Insulation, and Supports at Digesters No. 1, No. 2, No. 3 and No.4.	1	LS	\$682,000.00	\$682,000.00
47	Installation of All Equipment, Piping, Valves, and Supports for Digester Gas Equipment Including Conditioning System, Blowers, Flares, Heat Exchangers, Drip Traps, and Gas Filters.	1	LS	\$1,574,000.00	\$1,574,000.00
48	Installation of All Equipment, Tanks, Piping, Insulation, Valves, and Supports for FOG and Food Waste Facilities.	1	LS	\$535,000.00	\$535,000.00
49	Installation of All Equipment, Metal Covers, Tanks, Piping, Insulation, Valves, and Supports for Chemical Facilities.	1	LS	\$246,000.00	\$246,000.00
50	Installation of All Buried or Exposed Yard Piping, Valves, Hydrants, Back Flow Preventers, Regulators, Manholes and Catch Basins.	1	LS	\$739,000.00	\$739,000.00
51	Mechanical Equipment and Pump Testing and Other Specified Tests	1	LS	\$22,000.00	\$22,000.00

52	Cleaning, Sand Blasting, Coating and Painting for All Areas.	1	LS	\$518,000.00	\$518,000.00
53	Installation of 17 kV Duct Banks, Manholes, Transformers, and Wire.	1	LS	\$473,000.00	\$473,000.00
54	Installation of All 480 V Power, Signal, Fiber Optic, and Networking Site Electrical Work Including Duct Banks, Pull Boxes, and Buried and Exposed Conduits and Wiring.	1	LS	\$631,000.00	\$631,000.00
55	Installation of Electrical Equipment in Digester Control Building No. 2, Including Switchboard, MCC, Transformers, Panels, and Electrical Studies.	1	LS	\$474,000.00	\$474,000.00
56	Installation of Electrical Conduit, Wiring, Supports, Lighting, and All Other Miscellaneous Electrical Items for Digester Control Building No. 2.	1	LS	\$407,000.00	\$407,000.00
57	Installation of Electrical Conduit, Wiring, Supports, Lighting, and All Other Miscellaneous Electrical Items for Digesters No. 1, No. 2, No. 3, and No. 4, FOG and Food Waste Facilities, Digester Gas Areas, Chemical Facilities, and any other Miscellaneous Electrical Work.	1	LS	\$318,000.00	\$318,000.00
58	Installation PLCs, PLC Control Panels, Replacement of Existing PLCs and Control Panels, and Networking Equipment.	1	LS	\$213,000.00	\$213,000.00
59	Providing Developer Lap Tops With Installed Developer Software.	2	EA	\$13,000.00	\$26,000.00
60	Programming of all New, Existing, and Replaced PLCs.	1	LS	\$131,000.00	\$131,000.00
61	Installation of New IFIX SCADA Station With Site License, PC, and Monitors.	1	LS	\$106,000.00	\$106,000.00
62	Installation of All IFIX SCADA programming.	1	LS	\$105,000.00	\$105,000.00
63	Installation of All CMS Programming.	1	LS	\$400,000.00	\$400,000.00
64	Installation of All Instruments, Preparation of Interconnect and Loop Drawings, and As-built Drawings.	1	LS	\$560,000.00	\$560,000.00
65	Electrical Equipment Testing, Wire Testing, and Other Specified Tests.	1	LS	\$193,000.00	\$193,000.00
66	Phased Startup of all Digesters, Equipment, and Systems and Owner Training.	1	LS	\$8,000.00	\$8,000.00
67	Demobilization, Warranty paper work, and Project Closeout (minimum of 1%).	1	LS	\$210,000.00	\$210,000.00
68	Miscellaneous Items Specified or Indicated Elsewhere But Not Listed Above.	1	LS	\$10,000.00	\$10,000.00
69	Building Permit, and other Associated Fees Per Section 01500.	1	LS	\$107,264.45	\$107,264.45
70	Additional Cost for Providing All Shoring and Bracing On All Bid Items Above Including But Not Limited to That as Required By Section 6700-6708 of the Labor Code.	1	LS	\$22,000.00	\$22,000.00
71	Installation of Concrete Stem Walls, Floor, and other Miscellaneous Concrete Work at Digester Control Building No. 2.	1	LS	\$299,000.00	\$299,000.00
<b>TOTAL BASE BID ITEMS 1 - 71</b>					<b>\$20,185,601.45</b>