

1 **GUAM CONSOLIDATED COMMISSION ON UTILITIES**

2 **RESOLUTION NO. 41-FY2016**

3 **RELATIVE TO APPROVAL OF ISLANDWIDE WELL SITE REHABILITATION**
4 **(D-03, D-17, D-18, D-22, M-09) PROJECT W15-004-EPA**

5
6 **WHEREAS**, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities
7 (“CCU”) has plenary authority over financial, contractual and policy matters relative to the
8 Guam Waterworks Authority (“GWA”); and

9
10 **WHEREAS**, the Guam Waterworks Authority (“GWA”) is a Guam Public Corporation
11 established, and existing under the laws of Guam; and

12
13 **WHEREAS**, GWA has received a grant from the United States Environmental
14 Protection Agency (“USEPA”) under the State Revolving Fund (“SRF”) program to repair and
15 rehabilitate the water and wastewater system infrastructure; and

16
17 **WHEREAS**, GWA has a number of important USEPA SRF projects including the
18 rehabilitation, repair, or replacement of groundwater wells D-03, D-17, D-18, D-22, and M-09,
19 which have been inoperable for a significant amount of time and are located in the villages of
20 Dededo and Mangilao; and

21
22 **WHEREAS**, this time of inoperability has inhibited the full optimization of the island’s
23 system water pressure and contributed to supply deficiencies; and

24
25 **WHEREAS**, the intent of this project is to rehabilitate, repair, or replace the
26 aforementioned wells and return them into service, which is necessary to provide additional
27 redundancy and reliability to the island’s water system; and

28
29 **WHEREAS**, GWA, through procuring engineering consultant services in 2011, has
30 completed the design drawings and specifications for these wells in 2014 (GWA Project No. PW
31 05-14); and

1 **WHEREAS**, GWA has advertised the Invitation to Bid (IFB-05-ENG-2016) for the
2 Island wide Well Site Rehabilitation soliciting bid proposals from experienced and responsive
3 bidders to rehabilitate wells D-03, D-17, D-18, D-22, and M-09, in the aforementioned villages;
4 and
5

6 **WHEREAS**, this phase of work consists of furnishing all labor, tools, equipment, and
7 materials, as well as coordination efforts with GWA, GEPA, and other government/utility
8 agencies that are necessary to rehabilitate the aforementioned wells; and
9

10 **WHEREAS**, IFB packages were obtained by multiple interested parties, from which
11 GWA received bid proposals from one (1) party (SEE Exhibit A – Abstract of Bids, page 3 of
12 28) before the bid proposal deadline; and
13

14 **WHEREAS**, GWA's PMO analyzed the bid proposal received (SEE EXHIBIT A - Bid
15 Analysis, page 5 of 28) on May 24, 2016 and determined PacificRIM Constructors, Inc., who
16 submitted the lowest bid (SEE EXHIBIT A – Bid Proposals, page 17 of 28) as responsive and
17 met all the bid requirements set forth by GWA; and
18

19 **WHEREAS**, GWA Management seeks CCU approval of PacificRIM Constructors, Inc.
20 bid proposal in the amount of Four Million Six Hundred Eighty Nine Thousand Eight Hundred
21 Eighty Eight Dollars (\$4,689,888.00), plus a ten percent (10%) contingency of Four Hundred
22 Sixty Eight Thousand Nine Hundred Eighty Eight Dollars and Eighty Cents (\$468,988.80) to
23 bring the total authorized funding amount to a maximum of Five Million One Hundred Fifty
24 Eight Thousand Eight Hundred Seventy Six Dollars and Eighty Cents (\$5,158,876.80); and
25

26 **WHEREAS**, funding for this phase of this project will be from USEPA State Revolving
27 Fund and, if necessary, GWA 2013 and 2015 Bond funds under PW 05-13 Deep Well
28 Rehabilitation and PW 05-14 New Deep Wells at Down Hard; and
29

30 //

31 //

1 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities,
2 subject to the review and approval of the Public Utilities Commission, does hereby approve the
3 following:

- 4
- 5 1. The recitals set forth above hereby constitute the findings of the CCU.
- 6 2. The CCU finds that the terms of the fee proposal submitted by PacificRIM
- 7 Constructors, Inc. are fair and reasonable (EXHIBIT A).
- 8 3. The CCU finds that the terms and conditions set by GWA relative to
- 9 commencement of work activities are fair and reasonable and serve as a measure
- 10 of Quality Assurance/Quality Control (QA/QC).
- 11 4. The CCU hereby authorizes the management of GWA to enter into a contract
- 12 with PacificRIM Constructors, Inc. in the amount of Four Million Six Hundred
- 13 Eighty Nine Thousand Eight Hundred Eighty Eight Dollars (\$4,689,888.00).
- 14 5. The CCU hereby further approves the total funding amount for this project of
- 15 Four Million Six Hundred Eighty Nine Thousand Eight Hundred Eighty Eight
- 16 Dollars (\$4,689,888.00), plus a ten percent (10%) contingency of Four Hundred
- 17 Sixty Eight Thousand Nine Hundred Eighty Eight Dollars and Eighty Cents
- 18 (\$468,988.80), to bring the total authorized funding amount to a maximum of
- 19 Five Million One Hundred Fifty Eight Thousand Eight Hundred Seventy Six
- 20 Dollars and Eighty Cents (\$5,158,876.80).

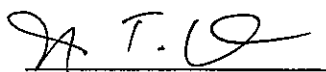
21 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption
22 of this Resolution.

23

24 **DULY AND REGULARLY ADOPTED**, this 7th day of June 2016.

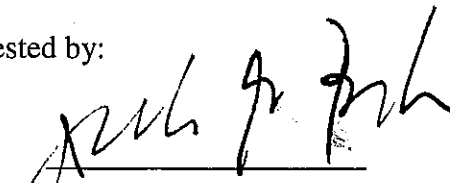
25

26 Certified by:

27 

28 **JOSEPH T. DUENAS**
29 Chairperson

30 Attested by:

31 
32 **J. GEORGE BAMBA**
 Secretary

//

1 I, J. George Bamba, Board Secretary of the Consolidated Commission on Utilities as
2 evidenced by my signature above do hereby certify as follows:

3
4 The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular
5 meeting by the members of the Guam Consolidated Commission on Utilities, duly and
6 legally held at a place properly noticed and advertised at which meeting a quorum was
present and the members who were present voted as follows:

7 AYES: 4
8 NAYS: 0
9 ABSTENTIONS: 0
10 ABSENT: 1
11
12



13 ///

16 ///

19 ///

22 ///

24 ///

27 ///

30 ///

T: 671.477.0975



June 1, 2016

Mr. Thomas Cruz
Chief Engineer
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 16
Mangilao, Guam 96913

148557

Subject: Letter of Recommendation for Construction Services for the IslandWide Well Site Rehabilitation (D-03, D-17, D-18, D-22, and M-09); GWA Project No. W15-004-EPA

Dear Mr. Cruz:

Brown and Caldwell (BC)—upon reviewing the bid proposals from all interested parties for the IslandWide Well Site Rehabilitation (D-03, D-17, D-18, D-22, and M-09) project—determines that PacificRIM Constructors, Inc. is the apparent lowest bidder with a proposed bid of \$4,689,888. BC recommends executing a contract with PacificRIM Constructors, Inc. to provide construction services for the aforementioned project as their bid proposal was within reason for the scope of the project. Table 1 below summarizes the proposed bids from all interested parties and Attachment 2 details each parties' project bids.

Lastly, BC has verified that PacificRIM Constructors, Inc. submitted all required documents to be qualified and considered for this project.

Table 1: Bid Summary

	Base Bid	Additive Bid	Total Bid
Engineer Cost Estimate	\$423,209.54	\$5,210,143.02	\$5,633,352.56
PacificRIM Constructors, Inc.	\$638,597.00	\$4,051,291.00	\$4,689,888.00
Variance			17%

414 W Soledad Avenue, Suite 907
Hagatna, GU 96910

T: 671.477.0975

Exhibit A (2 of 28)

If you have any questions, please call me at (671) 477-0975.

Respectfully Submitted,

Brown and Caldwell



Kurt Bilz, P.E.
Project Manager
Supervising Engineer

KRB:jbc

cc: Joseph Claveria, Brown and Caldwell
Gloria Bensen, Guam Waterworks Authority

Attachments:

1. GWA Abstract of Bids
2. Bid Analysis
3. PacificRIM Constructors, Inc. Bid Proposal

Attachment #1 – GWA Abstract of Bids

Prepared for
Guam Waterworks Authority

Project Name:	ISLAND-WIDE WELL SITE REHABILITATION
Project Number:	IFB-05-ENG-2015; W15-004-EPA

[illegible]

WITNESSES:

Attachment #2 – Bid Analysis

Prepared for
Guam Waterworks Authority


GUAM WATERWORKS AUTHORITY
Island-Wide Well Rehabilitation Bid Analysis
GWA Project No. W15-004-EPA

BID Tabulation			Engineer's Cost Estimate	Pacific RIM Constructors
1	WELL D-03	Base Bid	\$ 93,141.77	\$ 129,567.00
		Additive Bid #1	\$ 1,047,957.66	\$ 818,361.00
		Subtotal 1	\$ 1,141,099.43	\$ 947,928.00
2	WELL D-17	Base Bid	\$ 77,381.79	\$ 114,747.00
		Additive Bid #2	\$ 997,664.33	\$ 741,100.00
		Subtotal 2	\$ 1,075,046.13	\$ 855,847.00
3	WELL D-18	Base Bid	\$ 82,334.31	\$ 118,571.00
		Additive Bid #3	\$ 966,343.13	\$ 765,392.00
		Subtotal 3	\$ 1,048,677.44	\$ 883,963.00
4	WELL D-22	Base Bid	\$ 98,835.55	\$ 134,866.00
		Additive Bid #4	\$ 1,074,729.21	\$ 883,875.00
		Subtotal 4	\$ 1,173,564.76	\$ 1,018,741.00
7	WELL M-09	Base Bid	\$ 71,516.12	\$ 140,846.00
		Additive Bid #7	\$ 1,123,448.69	\$ 842,563.00
		Subtotal 7	\$ 1,194,964.81	\$ 983,409.00
Total Bid Price			\$ 5,633,352.56	\$ 4,689,888.00


GUAM WATERWORKS AUTHORITY
Island-Wide Well Rehabilitation Bid Analysis
GWA Project No. W15-004-EPA

BID SCHEDULE

Table 1: Rehabilitation of Well D-03

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical and Chlorinator Rooms and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
BASE BID:							
WELL EXPLORATION							
33 21 00 (a)	Mobilization and Demobilization	LS	1	4297	11,690.50	\$ 4,297	\$ 11,690.50
33 21 00 (b)	GEPA Well Drilling Permit	LS	1	1611	936.00	\$ 1,611	\$ 936.00
33 21 00 (c)	Site Access and Preparation	LS	1	2149	2,562.00	\$ 2,149	\$ 2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	LF	410	75	135.25	\$ 30,832	\$ 55,452.50
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	LS	1	4834	18,300.00	\$ 4,834	\$ 18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	LS	1	22023	6,100.00	\$ 22,023	\$ 6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	LS	1	1074	6,100.00	\$ 1,074	\$ 6,100.00
33 21 00 (h)	Complete Water Quality Analysis	LS	1	3223	9,906.00	\$ 3,223	\$ 9,906.00
33 21 00 (i)	Complete Well Monitoring	LS	1	2149	3,660.00	\$ 2,149	\$ 3,660.00
33 21 00 (j)	Temporary Well Protective Cover	LS	1	1074	854.00	\$ 1,074	\$ 854.00
33 21 00 (k)	Pilot Hole Abandonment	LS	1	19875	14,006.00	\$ 19,875	\$ 14,006.00
Subtotal - Well Exploration						\$ 93,142	\$ 129,567.00
Total Base Bid						\$ 93,142	\$ 129,567.00
ADDITIVE BID #1:							
GENERAL REQUIREMENTS							
01 71 13	Mobilization and Demobilization	LS	1	47,269	98,256.00	\$ 47,269	\$ 98,256.00
C-2	Permits and Clearances	LS	1	8,057	6,444.00	\$ 8,057	\$ 6,444.00
01 50 00 (a)	Temporary Traffic Control	LS	1	1,074	1,357.00	\$ 1,074	\$ 1,357.00
01 50 00 (b)	Temporary Environmental Control	LS	1	2,578	1,121.00	\$ 2,578	\$ 1,121.00
Subtotal - General Requirements						\$ 56,401	\$ 107,178.00
DEMOLITION WORK							
02 41 19 (a)	Decommissioning of Existing Well	LS	1	26,857	19,610.00	\$ 26,857	\$ 19,610.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	LS	1	10,743	8,308.00	\$ 10,743	\$ 8,308.00
Subtotal - Demolition Work						\$ 37,600	\$ 27,918.00
NEW WELL CONSTRUCTION AND DEVELOPMENT							
33 21 00 (l)	Reaming to 24-inch	LF	410	81	229.72	\$ 33,035	\$ 94,185.20
33 21 00 (m)	16-inch Dia. HSLA Well Casing	LF	360	161	434.69	\$ 58,012	\$ 156,488.40
33 21 00 (n)	16-inch Dia. SS 304 Well screen	LF	22	188	644.14	\$ 4,136	\$ 14,171.08
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	LF	28	129	649.22	\$ 3,610	\$ 18,178.16
33 21 00 (p)	Gravel Pack and Sanitary Seal	LS	1	3,223	14,640.00	\$ 3,223	\$ 14,640.00
33 21 00 (q)	Well Development	LS	1	241,717	45,933.00	\$ 241,717	\$ 45,933.00
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	LS	1	145,030	59,492.00	\$ 145,030	\$ 59,492.00
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	LS	1	26,857	36,600.00	\$ 26,857	\$ 36,600.00
33 21 00 (t)	Complete Well Monitoring	LS	1	1,611	4,270.00	\$ 1,611	\$ 4,270.00
33 21 00 (u)	Complete Water Quality Analysis	LS	1	5,909	9,906.00	\$ 5,909	\$ 9,906.00
33 21 00 (v)	Video Log	LS	1	3,223	5,636.00	\$ 3,223	\$ 5,636.00
33 21 00 (w)	Disinfection	LS	1	1,611	4,880.00	\$ 1,611	\$ 4,880.00
33 21 00 (x)	GEPA Well Operation Permit	LS	1	8,057	1,281.00	\$ 8,057	\$ 1,281.00
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	LS	1	3,223	6,576.00	\$ 3,223	\$ 6,576.00
Subtotal - New Well Construction and Development						\$ 539,255	\$ 472,236.84
SITWORK							
31 10 00	Site Clearing	LS	1	3,223	1,157.00	\$ 3,223	\$ 1,157.00
32 31 13 (a)	6-foot High Chain Link Fence with 6-inch High CMU Wall	LF	272	38	67.18	\$ 10,227	\$ 18,274.00
32 31 13 (c)	14-foot Wide Chain Link Vehicular Gate	EA	2	4,297	2,303.50	\$ 8,594	\$ 4,607.00
Subtotal - Sitework						\$ 22,045	\$ 24,038.00
NEW SITE WATER PIPING							
33 11 16 (a)	24" Diameter PVC Pipe	LF	70	430	413.67	\$ 30,080	\$ 28,957.00
33 11 16 (b)	6" Diameter PVC Pipe	LF	20	107	508.55	\$ 2,149	\$ 10,171.00
33 11 16 (c)	2" Diameter PVC Pipe	LF	90	54	51.71	\$ 4,834	\$ 4,654.00
33 11 16 (d)	1" Diameter PVC Pipe	LF	120	32	45.38	\$ 3,867	\$ 5,445.00
33 11 16 (e)	3/4" Diameter PVC Pipe	LF	20	27	52.95	\$ 537	\$ 1,059.00
33 11 16 (f)	Hose Bibb	LS	1	1,074	61.00	\$ 1,074	\$ 61.00
33 11 16 (g)	Chlorine Contact Utility Vault	LS	1	3,223	7,842.00	\$ 3,223	\$ 7,842.00
Subtotal - New Site Water Piping						\$ 45,765	\$ 58,189.00
ELECTRICAL WORK							
26 05 00 (a)	Site Electrical Demolition Work	LS	1	16,114	2,830.00	\$ 16,114	\$ 2,830.00
26 05 00 (b)	Site Electrical Improvements	LS	1	107,430	3,086.00	\$ 107,430	\$ 3,086.00
26 05 00 (c)	Rehabilitation of Existing Electrical Room	LS	1	42,972	2,249.00	\$ 42,972	\$ 2,249.00
25 36 13	Process Instrumentation	LS	1	16,114	37,177.00	\$ 16,114	\$ 37,177.00
40 94 43	Process Controller and Graphic Recorder	LS	1	12,892	26,864.00	\$ 12,892	\$ 26,864.00
Subtotal - Electrical Work						\$ 195,523	\$ 72,206.00
MECHANICAL WORK							
23 31 16	Fiberglass Reinforced Plastic Duct	LS	1	4,297	1,718.00	\$ 4,297	\$ 1,718.00
23 34 00	Ventilation Fans	LS	1	5,371	5,776.00	\$ 5,371	\$ 5,776.00
26 28 23	Enclosed Circuit Breakers	LS	1	2,686	2,284.00	\$ 2,686	\$ 2,284.00


GUAM WATERWORKS AUTHORITY
Island-Wide Well Rehabilitation Bid Analysis
GWA Project No. W15-004-EPA

BID SCHEDULE

Table 1: Rehabilitation of Well D-03

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement
rehabilitation of existing Electrical and Chlorinator Rooms and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
Subtotal - Mechanical Work						\$ 12,354	\$ 9,778.00
CHLORINATION SYSTEM							
43 32 76 (a)	New Chlorination System	LS	1	107,430	30,232.00	\$ 107,430	\$ 30,232.00
43 32 76 (b)	Rehabilitation of Existing Chlorinator Room	LS	1	21,486	8,715.16	\$ 21,486	\$ 8,715.16
43 32 76 (c)	Sample Port	LS	1	1,611	3,787.00	\$ 1,611	\$ 3,787.00
22 45 33	Emergency Shower and Eye Wash	LS	1	5,371	3,799.00	\$ 5,371	\$ 3,799.00
10 44 16	Fire Extinguisher	EA	1	537	284.00	\$ 537	\$ 284.00
Subtotal - Chlorination System						\$ 136,436	\$ 46,817.16
Total Additive Bid #1						\$ 1,045,379	\$ 818,361.00

NOTE: 2016 Unit Cost reflects the % of the cost increase from April 2014 to February 2016, according to the ENR Construction Cost Index (with an additional 3% mark-up for Guam).

% Change: 7.43%
 Feb-16 10,101.92
 Apr-14 9,750.00
 Guam % Inc. 3.0%

Total Cost Table 1 (Total Base Bid + Total Additive Bid #1) \$ 1,138,521 \$ 947,928.00


GUAM WATERWORKS AUTHORITY
Island-Wide Well Rehabilitation Bid Analysis
GWA Project No. W15-004-EPA

BID SCHEDULE

Table 2: Rehabilitation of Well D-17

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
BASE BID:							
WELL EXPLORATION							
33 21 00 (a)	Mobilization and Demobilization	LS	1	3,223	10,358.00	\$ 3,222.90	\$ 10,358.00
33 21 00 (b)	GEPA Well Drilling Permit	LS	1	1,074	828.00	\$ 1,074.30	\$ 828.00
33 21 00 (c)	Site Access and Preparation	LS	1	1,611	2,562.00	\$ 1,611.45	\$ 2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	LF	329	75	140.00	\$ 24,741.12	\$ 46,060.00
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	LS	1	4,834	18,300.00	\$ 4,834.35	\$ 18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	LS	1	18,263	6,100.00	\$ 18,263.09	\$ 6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	LS	1	1,074	6,100.00	\$ 1,074.30	\$ 6,100.00
33 21 00 (h)	Complete Water Quality Analysis	LS	1	3,223	9,906.00	\$ 3,222.90	\$ 9,906.00
33 21 00 (i)	Complete Well Monitoring	LS	1	2,149	2,440.00	\$ 2,148.60	\$ 2,440.00
33 21 00 (j)	Temporary Well Protective Cover	LS	1	1,074	854.00	\$ 1,074.30	\$ 854.00
33 21 00 (k)	Pilot Hole Abandonment	LS	1	16,114	11,239.00	\$ 16,114.49	\$ 11,239.00
Subtotal - Well Exploration						\$ 77,381.79	\$ 114,747.00
Total Base Bid						\$ 77,381.79	\$ 114,747.00
ADDITIVE BID #2:							
GENERAL REQUIREMENTS							
01 71 13	Mobilization and Demobilization	LS	1	45,121	89,217.00	\$ 45,120.58	\$ 89,217.00
C-2	Permits and Clearances	LS	1	8,057	5,851.00	\$ 8,057.25	\$ 5,851.00
01 50 00 (a)	Temporary Traffic Control	LS	1	1,074		\$ 1,074.30	\$ -
01 50 00 (b)	Temporary Environmental Control	LS	1	3,223	1,782.00	\$ 3,222.90	\$ 1,782.00
Subtotal - General Requirements						\$ 57,475.02	\$ 96,850.00
DEMOLITION WORK							
02 41 19 (a)	Decommissioning of Existing Well	LS	1	26,857	2,530.00	\$ 26,857.49	\$ 2,530.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	LS	1	10,743	7,752.00	\$ 10,742.99	\$ 7,752.00
Subtotal - Demolition Work						\$ 37,600.48	\$ 10,282.00
NEW WELL CONSTRUCTION AND DEVELOPMENT							
33 21 00 (l)	Reaming to 24-inch	LF	329	70	251.90	\$ 22,973.89	\$ 82,875.10
33 21 00 (m)	16-inch Dia. HSLA Well Casing	LF	279	161	444.68	\$ 44,959.43	\$ 124,065.72
33 21 00 (n)	16-inch Dia. SS 304 Well screen	LF	22	188	644.14	\$ 4,136.05	\$ 14,171.08
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	LF	28	129	649.21	\$ 3,609.65	\$ 18,177.88
33 21 00 (p)	Gravel Pack and Sanitary Seal	LS	1	3,223	12,200.00	\$ 3,222.90	\$ 12,200.00
33 21 00 (q)	Well Development	LS	1	193,374	45,933.00	\$ 193,373.91	\$ 45,933.00
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	LS	1	118,173	67,309.00	\$ 118,172.94	\$ 67,309.00
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	LS	1	21,486	36,600.00	\$ 21,485.99	\$ 36,600.00
33 21 00 (t)	Complete Well Monitoring	LS	1	1,611	3,050.00	\$ 1,611.45	\$ 3,050.00
33 21 00 (u)	Complete Water Quality Analysis	LS	1	5,909	9,906.00	\$ 5,908.65	\$ 9,906.00
33 21 00 (v)	Video Log	LS	1	3,223	5,636.00	\$ 3,222.90	\$ 5,636.00
33 21 00 (w)	Disinfection	LS	1	1,611	4,880.00	\$ 1,611.45	\$ 4,880.00
33 21 00 (x)	GEPA Well Operation Permit	LS	1	8,057	1,281.00	\$ 8,057.25	\$ 1,281.00
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	LS	1	3,223	6,576.00	\$ 3,222.90	\$ 6,576.00
Subtotal - New Well Construction and Development						\$ 435,569.36	\$ 432,660.78
SITework							
31 10 00	Site Clearing	LS	1	3,223	909.00	\$ 3,222.90	\$ 909.00
32 31 13 (a)	6-foot High Chain Link Fence with 6-inch High CMU Wall	LF	212	38	68.47	\$ 7,971.30	\$ 14,515.64
32 31 13 (c)	14-foot Wide Chain Link Vehicular Gate	EA	2	4,297	2,303.50	\$ 8,594.40	\$ 4,607.00
Subtotal - Sitework						\$ 19,788.60	\$ 20,032
NEW SITE WATER PIPING							
33 11 16 (a)	24" Diameter PVC Pipe	LF	230	430	161.85	\$ 98,835.55	\$ 37,225.50
33 11 16 (b)	6" Diameter PVC Pipe	LF	60	107	194.08	\$ 6,445.80	\$ 11,644.80
33 11 16 (c)	2" Diameter PVC Pipe	LF	50	54	65.06	\$ 2,685.75	\$ 3,253.00
33 11 16 (d)	1" Diameter PVC Pipe	LF	110	32	46.57	\$ 3,545.19	\$ 5,122.70
33 11 16 (f)	Hose Bibb	LS	1	1,074	61.00	\$ 1,074.30	\$ 61.00
33 11 16 (g)	Chlorine Contact Utility Vault	LS	1	3,223	8,782.00	\$ 3,222.90	\$ 8,782.00
Subtotal - New Site Water Piping						\$ 115,809.48	\$ 66,089
ELECTRICAL WORK							
26 05 00 (a)	Site Electrical Demolition Work	LS	1	16,114	2,830.00	\$ 16,114.49	\$ 2,830.00
26 05 00 (b)	Site Electrical Improvements	LS	1	107,430	2,827.00	\$ 107,429.95	\$ 2,827.00
26 05 00 (c)	Rehabilitation of Existing Electrical Room	LS	1	42,972	2,249.00	\$ 42,971.98	\$ 2,249.00
25 36 13	Process Instrumentation	LS	1	16,114	37,177.00	\$ 16,114.49	\$ 37,177.00
40 94 43	Process Controller and Graphic Recorder	LS	1	12,892	21,984.00	\$ 12,891.59	\$ 21,984.00
Subtotal - Electrical Work						\$ 195,522.51	\$ 67,067.00
MECHANICAL WORK							
23 31 16	Fiberglass Reinforced Plastic Duct	LS	1	4,297	1,718.00	\$ 4,297.20	\$ 1,718.00
23 34 00	Ventilation Fans	LS	1	5,371	2,433.00	\$ 5,371.50	\$ 2,433.00
26 28 23	Enclosed Circuit Breakers	LS	1	2,686	1,142.00	\$ 2,685.75	\$ 1,142.00


GUAM WATERWORKS AUTHORITY
Island-Wide Well Rehabilitation Bid Analysis
GWA Project No. W15-004-EPA

BID SCHEDULE

Table 2: Rehabilitation of Well D-17

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical Room and Chlorinator Building and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
Subtotal - Mechanical Work						\$ 12,354.44	\$ 5,293.00
CHLORINATION SYSTEM							
43 32 76 (a)	New Chlorination System	LS	1	107,430	30,232.00	\$ 107,429.95	\$ 30,232.00
43 32 76 (b)	Rehabilitation of Existing Chlorinator Building	LS	1	10,743	4,724.58	\$ 10,742.99	\$ 4,724.58
43 32 76 (c)	Sample Port	LS	1	1,611	3,787.00	\$ 1,611.45	\$ 3,787.00
22 45 33	Emergency Shower and Eye Wash	LS	1	3,223	3,799.00	\$ 3,222.90	\$ 3,799.00
10 44 16	Fire Extinguisher	EA	1	537	284.00	\$ 537.15	\$ 284.00
Subtotal - Chlorination System						\$ 123,544.44	\$ 42,826.58
Total Additive Bid #2						\$ 997,664.33	\$ 741,100

NOTE: 2016 Unit Cost reflects the % of the cost increase from April 2014 to February 2016, according to the ENR Construction Cost Index (with an additional 3% mark-up for Guam).

% Change:	7.43%
Feb-16	10,101.92
Apr-14	9,750.00
Guam % Inc.	3.0%

Total Cost Table 2 (Total Base Bid + Total Additive Bid #2) **\$ 1,075,046.13 \$ 855,847**


GUAM WATERWORKS AUTHORITY
Island-Wide Well Rehabilitation Bid Analysis
GWA Project No. W15-004-EPA

BID SCHEDULE

Table 3: Rehabilitation of Well D-18

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
BASE BID:							
WELL EXPLORATION							
33 21 00 (a)	Mobilization and Demobilization	LS	1	4,297.20	10,701.64	\$ 4,297.20	\$ 10,701.64
33 21 00 (b)	GEPA Well Drilling Permit	LS	1	1,074.30	856.00	\$ 1,074.30	\$ 856.00
33 21 00 (c)	Site Access and Preparation	LS	1	1,611.45	2,562.00	\$ 1,611.45	\$ 2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	LF	352	75.20	138.43	\$ 26,470.74	\$ 48,727.36
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	LS	1	4,834.35	18,300.00	\$ 4,834.35	\$ 18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	LS	1	19,337.39	6,100.00	\$ 19,337.39	\$ 6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	LS	1	1,074.30	6,100.00	\$ 1,074.30	\$ 6,100.00
33 21 00 (h)	Complete Water Quality Analysis	LS	1	3,222.90	9,906.00	\$ 3,222.90	\$ 9,906.00
33 21 00 (i)	Complete Well Monitoring	LS	1	2,148.60	2,440.00	\$ 2,148.60	\$ 2,440.00
33 21 00 (j)	Temporary Well Protective Cover	LS	1	1,074.30	854.00	\$ 1,074.30	\$ 854.00
33 21 00 (k)	Pilot Hole Abandonment	LS	1	17,188.79	12,024.00	\$ 17,188.79	\$ 12,024.00
Subtotal - Well Exploration						\$ 82,334	\$ 118,571
Total Base Bid						\$ 82,334	\$ 118,571
ADDITIVE BID #3:							
GENERAL REQUIREMENTS							
01 71 13	Mobilization and Demobilization	LS	1	44,046.28	91,795.00	\$ 44,046.28	\$ 91,795.00
C-2	Permits and Clearances	LS	1	8,057.25	6,019.00	\$ 8,057.25	\$ 6,019.00
01 50 00 (a)	Temporary Traffic Control	LS	1	1,074.30	1,357.00	\$ 1,074.30	\$ 1,357.00
01 50 00 (b)	Temporary Environmental Control	LS	1	3,222.90	1,782.00	\$ 3,222.90	\$ 1,782.00
Subtotal - General Requirements						\$ 56,400.72	\$ 100,953.00
DEMOLITION WORK							
02 41 19 (a)	Decommissioning of Existing Well	LS	1	26,857.49	2,530.00	\$ 26,857.49	\$ 2,530.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	LS	1	10,742.99	7,386.00	\$ 10,742.99	\$ 7,386.00
Subtotal - Demolition Work						\$ 37,600.48	\$ 9,916.00
NEW WELL CONSTRUCTION AND DEVELOPMENT							
33 21 00 (l)	Reaming to 24-inch	LF	352	69.83	248.99	\$ 87,644.48	\$ 87,644.48
33 21 00 (m)	16-inch Dia. HSLA Well Casing	LF	292	161.14	448.26	\$ 130,891.92	\$ 130,891.92
33 21 00 (n)	16-inch Dia. SS 304 Well screen	LF	30	188.00	644.13	\$ 19,323.90	\$ 19,323.90
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	LF	30	128.92	646.43	\$ 19,392.90	\$ 19,392.90
33 21 00 (p)	Gravel Pack and Sanitary Seal	LS	1	3,222.90	14,640.00	\$ 3,222.90	\$ 14,640.00
33 21 00 (q)	Well Development	LS	1	209,488.40	45,933.00	\$ 45,933.00	\$ 45,933.00
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	LS	1	124,618.74	70,076.00	\$ 70,076.00	\$ 70,076.00
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	LS	1	22,560.29	36,600.00	\$ 36,600.00	\$ 36,600.00
33 21 00 (t)	Complete Well Monitoring	LS	1	3,222.90	3,050.00	\$ 3,050.00	\$ 3,050.00
33 21 00 (u)	Complete Water Quality Analysis	LS	1	5,908.65	9,906.00	\$ 9,906.00	\$ 9,906.00
33 21 00 (v)	Video Log	LS	1	1,611.45	5,636.00	\$ 5,636.00	\$ 5,636.00
33 21 00 (w)	Disinfection	LS	1	1,611.45	4,880.00	\$ 4,880.00	\$ 4,880.00
33 21 00 (x)	GEPA Well Operation Permit	LS	1	8,057.25	1,281.00	\$ 1,281.00	\$ 1,281.00
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	LS	1	3,222.90	6,576.00	\$ 6,576.00	\$ 6,576.00
Subtotal - New Well Construction and Development						\$ 455,831.20	\$ 455,831
SITWORK							
31 10 00	Site Clearing	LS	1	3,222.90	731.00	\$ 3,222.90	\$ 731.00
32 31 13 (a)	6-foot High Chain Link Fence with 6-inch High CMU Wall	LF	178	37.60	69.69	\$ 6,692.89	\$ 12,404.82
32 31 13 (c)	14-foot Wide Chain Link Vehicular Gate	EA	2	4,297.20	2,355.00	\$ 8,594.40	\$ 4,710.00
32 31 13 (d)	4-foot Wide Chain Link Pedestrian Gate	EA	1	805.72	1,071.00	\$ 805.72	\$ 1,071.00
C-1	Pavement Restorations	LS	1	1,611.45	4,602.00	\$ 1,611.45	\$ 4,602.00
Subtotal - Sitework						\$ 20,927.35	\$ 23,518.82
NEW SITE WATER PIPING							
33 11 16 (a)	24" Diameter PVC Pipe	LF	60	429.72	434.63	\$ 25,783.19	\$ 26,077.80
33 11 16 (b)	6" Diameter PVC Pipe	LF	34	107.43	347.76	\$ 3,652.62	\$ 11,823.84
33 11 16 (c)	2" Diameter PVC Pipe	LF	70	53.71	55.43	\$ 3,760.05	\$ 3,880.10
33 11 16 (d)	1" Diameter PVC Pipe	LF	220	32.23	40.10	\$ 7,090.38	\$ 8,822.00
33 11 16 (f)	Ilse Bibb	LS	1	1,074.30	61.00	\$ 1,074.30	\$ 61.00
33 11 16 (g)	Chlorine Contact Utility Vault	LS	1	3,222.90	7,544.00	\$ 3,222.90	\$ 7,544.00
Subtotal - New Site Water Piping						\$ 44,583.43	\$ 58,208.74
ELECTRICAL WORK							
26 05 00 (a)	Site Electrical Demolition Work	LS	1	16,114.49	2,830.00	\$ 16,114.49	\$ 2,830.00
26 05 00 (b)	Site Electrical Improvements	LS	1	107,429.95	4,032.00	\$ 107,429.95	\$ 4,032.00
26 05 00 (c)	Rehabilitation of Existing Electrical Room	LS	1	42,971.98	2,249.00	\$ 42,971.98	\$ 2,249.00
25 36 13	Process Instrumentation	LS	1	16,114.49	37,177.00	\$ 16,114.49	\$ 37,177.00
40 94 43	Process Controller and Graphic Recorder	LS	1	12,891.59	21,984.00	\$ 12,891.59	\$ 21,984.00
Subtotal - Electrical Work						\$ 195,522.51	\$ 68,272.00
MECHANICAL WORK							
23 31 16	Fiberglass Reinforced Plastic Duct	LS	1	4,297.20	1,718.00	\$ 4,297.20	\$ 1,718.00
23 34 00	Ventilation Fans	LS	1	5,371.50	2,433.00	\$ 5,371.50	\$ 2,433.00
26 28 23	Enclosed Circuit Breakers	LS	1	2,685.75	1,142.00	\$ 2,685.75	\$ 1,142.00
Subtotal - Mechanical Work						\$ 12,354.44	\$ 5,293.00
CHLORINATION SYSTEM							


GUAM WATERWORKS AUTHORITY
Island-Wide Well Rehabilitation Bid Analysis
GWA Project No. W15-004-EPA

BID SCHEDULE

Table 3: Rehabilitation of Well D-18

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
43 32 76 (a)	New Chlorination System	LS	1	107,429.95	30,232.00	\$ 107,429.95	\$ 30,232.00
43 32 76 (b)	Rehabilitation of Existing Chlorinator Building	LS	1	21,485.99	5,297.24	\$ 21,485.99	\$ 5,297.24
43 32 76 (c)	Sample Port	LS	1	1,611.45	3,787.00	\$ 1,611.45	\$ 3,787.00
22 45 33	Emergency Shower and Eye Wash	LS	1	3,222.90	3,799.00	\$ 3,222.90	\$ 3,799.00
10 44 16	Fire Extinguisher	EA	1	537.15	284.00	\$ 537.15	\$ 284.00
Subtotal - Chlorination System						\$ 134,287.44	\$ 43,399.24
Total Additive Bid #3						\$ 957,507.57	\$ 765,392

NOTE:

2016 Unit Cost reflects the % of the cost increase from April 2014 to February 2016, according to the ENR Construction Cost Index (with an additional 3% mark-up for Guam).

% Change: 7.43%

Feb-16 10,181.92

Apr-14 9,750.00

Guam % Inc. 3.8%

Total Cost Table 3 (Total Base Bid + Total Additive Bid #3) \$ 1,039,841.89 \$ 883,963

GUAM WATERWORKS AUTHORITY
Island-Wide Well Rehabilitation Bid Analysis
GWA Project No. W15-004-EPA

BID SCHEDULE

Table 4: Rehabilitation of Well D-22

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical and Chlorinator Rooms and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
BASE BID:							
WELL EXPLORATION							
33 21 00 (a)	Mobilization and Demobilization	LS	1	4,297	12,165.00	\$ 4,297	\$ 12,165
33 21 00 (b)	GEPA Well Drilling Permit	LS	1	1,074	974.00	\$ 1,074	\$ 974
33 21 00 (c)	Site Access and Preparation	LS	1	1,611	2,562.00	\$ 1,611	\$ 2,562
33 21 00 (d)	12-inch Diameter Pilot Hole	LF	450	75	133.54	\$ 33,840	\$ 60,093
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	LS	1	4,834	18,300.00	\$ 4,834	\$ 18,300
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	LS	1	24,172	6,100.00	\$ 24,172	\$ 6,100
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	LS	1	1,074	6,100.00	\$ 1,074	\$ 6,100
33 21 00 (h)	Complete Water Quality Analysis	LS	1	3,223	9,906.00	\$ 3,223	\$ 9,906
33 21 00 (i)	Complete Well Monitoring	LS	1	2,149	2,440.00	\$ 2,149	\$ 2,440
33 21 00 (j)	Temporary Well Protective Cover	LS	1	1,074	854.00	\$ 1,074	\$ 854
33 21 00 (k)	Pilot Hole Abandonment	LS	1	21,486	15,372.00	\$ 21,486	\$ 15,372
Subtotal - Well Exploration						\$ 98,836	\$ 134,866
Total Base Bid						\$ 98,836	\$ 134,866
ADDITIVE BID #4:							
GENERAL REQUIREMENTS							
01 71 13	Mobilization and Demobilization	LS	1	50492	104,564.00	\$ 50,492	\$ 104,564
C-2	Permits and Clearances	LS	1	8057	6,857.00	\$ 8,057	\$ 6,857
01 50 00 (a)	Temporary Traffic Control	LS	1	1074	1,357.00	\$ 1,074	\$ 1,357
01 50 00 (b)	Temporary Environmental Control	LS	1	3223	1,152.00	\$ 3,223	\$ 1,152
Subtotal - General Requirements						\$ 62,847	\$ 113,930
DEMOLITION WORK							
02 41 19 (a)	Decommissioning of Existing Well	LS	1	26857	2,530.00	\$ 26,857	\$ 2,530
02 41 19 (b)	Removal of Existing Structures and Obstructions	LS	1	10743	8,679.00	\$ 10,743	\$ 8,679
Subtotal - Demolition Work						\$ 37,600	\$ 11,209
NEW WELL CONSTRUCTION AND DEVELOPMENT							
33 21 00 (l)	Reaming to 24-inch	LF	450	70	245.36	\$ 31,423	\$ 110,412
33 21 00 (m)	16-inch Dia. HSLA Well Casing	LF	330	161	472.26	\$ 53,178	\$ 155,846
33 21 00 (n)	16-inch Dia. SS 304 Well screen	LF	40	188	644.15	\$ 7,520	\$ 25,766
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	LF	80	129	622.14	\$ 10,313	\$ 49,771
33 21 00 (p)	Gravel Pack and Sanitary Seal	LS	1	3223	15,860.00	\$ 3,223	\$ 15,860
33 21 00 (q)	Well Development	LS	1	266426	45,933.00	\$ 266,426	\$ 45,933
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	LS	1	160071	68,548.00	\$ 160,071	\$ 68,548
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	LS	1	29006	36,600.00	\$ 29,006	\$ 36,600
33 21 00 (t)	Complete Well Monitoring	LS	1	3223	3,050.00	\$ 3,223	\$ 3,050
33 21 00 (u)	Complete Water Quality Analysis	LS	1	5909	9,906.00	\$ 5,909	\$ 9,906
33 21 00 (v)	Video Log	LS	1	1611	5,636.00	\$ 1,611	\$ 5,636
33 21 00 (w)	Disinfection	LS	1	1611	4,880.00	\$ 1,611	\$ 4,880
33 21 00 (x)	GEPA Well Operation Permit	LS	1	8057	1,153.00	\$ 8,057	\$ 1,153
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	LS	1	3223	6,576.00	\$ 3,223	\$ 6,576
Subtotal - New Well Construction and Development						\$ 584,795	\$ 539,937
SITWORK							
31 10 00	Site Clearing	LS	1	3223	1,376.00	\$ 3,223	\$ 1,376
32 31 13 (a)	6-foot High Chain Link Fence with 6-inch High CMU Wall	LF	306	38	66.03	\$ 11,506	\$ 20,205
32 31 13 (b)	20-foot Wide Chain Link Vehicular Gate	EA	1	6446	3,299.00	\$ 6,446	\$ 3,299
32 31 13 (c)	14-foot Wide Chain Link Vehicular Gate	EA	1	4297	2,322.00	\$ 4,297	\$ 2,322
Subtotal - Sitework						\$ 25,472	\$ 27,202.18
NEW SITE WATER PIPING							
33 11 16 (a)	24" Diameter PVC Pipe	LF	70	430	403.93	\$ 30,080	\$ 28,275
33 11 16 (b)	6" Diameter PVC Pipe	LF	50	107	258.96	\$ 5,371	\$ 12,948
33 11 16 (c)	2" Diameter PVC Pipe	LF	10	54	170.40	\$ 537	\$ 1,704
33 11 16 (d)	1" Diameter PVC Pipe	LF	210	32	42.31	\$ 6,768	\$ 8,885
33 11 16 (e)	3/4" Diameter PVC Pipe	LF	10	27	53.00	\$ 269	\$ 530
33 11 16 (f)	Hose Bibb	LS	1	1074	61.00	\$ 1,074	\$ 61
33 11 16 (g)	Chlorine Contact Utility Vault	LS	1	3223	7,544.00	\$ 3,223	\$ 7,544
Subtotal - New Site Water Piping						\$ 47,323	\$ 59,947.20
ELECTRICAL WORK							
26 05 00 (a)	Site Electrical Demolition Work	LS	1	16114	2,830.00	\$ 16,114	\$ 2,830
26 05 00 (b)	Site Electrical Improvements	LS	1	107430	4,462.00	\$ 107,430	\$ 4,462
26 05 00 (c)	Rehabilitation of Existing Electrical Room	LS	1	42972	2,249.00	\$ 42,972	\$ 2,249
25 36 13	Process Instrumentation	LS	1	16114	37,177.00	\$ 16,114	\$ 37,177
40 94 43	Process Controller and Graphic Recorder	LS	1	12892	21,984.00	\$ 12,892	\$ 21,984
Subtotal - Electrical Work						\$ 195,523	\$ 68,702.00
MECHANICAL WORK							
23 31 16	Fiberglass Reinforced Plastic Duct	LS	1	4297	1,718.00	\$ 4,297	\$ 1,718
23 34 00	Ventilation Fans	LS	1	5371	6,020.00	\$ 5,371	\$ 6,020
26 28 23	Enclosed Circuit Breakers	LS	1	2686	2,284.00	\$ 2,686	\$ 2,284
Subtotal - Mechanical Work						\$ 12,354	\$ 10,022
CHLORINATION SYSTEM							
43 32 76 (a)	New Chlorination System	LS	1	112801	30,232.00	\$ 112,801	\$ 30,232
43 32 76 (b)	Rehabilitation of Existing Chlorinator Room	LS	1	16114	14,823.62	\$ 16,114	\$ 14,824


GUAM WATERWORKS AUTHORITY
 Island-Wide Well Rehabilitation Bid Analysis
 GWA Project No. W15-004-EPA

BID SCHEDULE

Table 4: Rehabilitation of Well D-22

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical and Chlorinator Rooms and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
43 32 76 (c)	Sample Port	LS	1	1611	3,787.00	\$ 1,611	\$ 3,787
22 45 33	Emergency Shower and Eye Wash	LS	1	3223	3,799.00	\$ 3,223	\$ 3,799
10 44 16	Fire Extinguisher	EA	1	537	284.00	\$ 537	\$ 284
Subtotal - Chlorination System						\$ 134,287	\$ 52,925.62
Total Additive Bid #4						\$ 1,074,729	\$ 883,875

NOTE:

2016 Unit Cost reflects the % of the cost increase from April 2014 to February 2016, according to the ENR Construction Cost Index (with an additional 3% mark-up for Guam).

% Change: 7.43%
 Feb-16 10,181.92
 Apr-14 9,750.00
 Guam % Inc. 3.0%

Total Cost Table 4 (Total Base Bid + Total Additive Bid #4)

\$ 1,173,564.76 \$ 1,018,741.00


GUAM WATERWORKS AUTHORITY
Island-Wide Well Rehabilitation Bid Analysis
GWA Project No. W15-004-EPA

BID SCHEDULE

Table 7: Rehabilitation of Well M-09

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical Room and Chlorinator Building and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
BASE BID:							
WELL EXPLORATION							
33 21 00 (a)	Mobilization and Demobilization	LS	1	3,223	12,703.44	\$ 3,223	\$ 12,703
33 21 00 (b)	GEPA Well Drilling Permit	LS	1	1,074	1,119.00	\$ 1,074	\$ 1,119
33 21 00 (c)	Site Access and Preparation	LS	1	1,611	2,562.00	\$ 1,611	\$ 2,562
33 21 00 (d)	12-inch Diameter Pilot Hole	LF	476	75	132.56	\$ 35,796	\$ 63,099
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	LS	1	4,834	18,300.00	\$ 4,834	\$ 18,300
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	LS	1	16,114	6,100.00	\$ 16,114	\$ 6,100
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	LS	1	1,074	6,100.00	\$ 1,074	\$ 6,100
33 21 00 (h)	Complete Water Quality Analysis	LS	1	3,223	9,906.00	\$ 3,223	\$ 9,906
33 21 00 (i)	Complete Well Monitoring	LS	1	2,149	2,257.00	\$ 2,149	\$ 2,257
33 21 00 (j)	Temporary Well Protective Cover	LS	1	1,074	2,440.00	\$ 1,074	\$ 2,440
33 21 00 (k)	Pilot Hole Abandonment	LS	1	14,503	16,260.00	\$ 14,503	\$ 16,260
Subtotal - Well Exploration						\$ 84,676	\$ 140,846
Total Base Bid						\$ 84,676	\$ 140,846
ADDITIVE BID #7:							
GENERAL REQUIREMENTS							
01 71 13	Mobilization and Demobilization	LS	1	51,566	94,756.00	\$ 51,566	\$ 94,756
C-2	Permits and Clearances	LS	1	8,057	6,214.00	\$ 8,057	\$ 6,214
01 50 00 (a)	Temporary Traffic Control	LS	1	1,074	3,758.00	\$ 1,074	\$ 3,758
01 50 00 (b)	Temporary Environmental Control	LS	1	3,223	1,044.00	\$ 3,223	\$ 1,044
Subtotal - General Requirements						63,921	105,772.00
DEMOLITION WORK							
02 41 19 (a)	Decommissioning of Existing Well	LS	1	26,857	2,530.00	\$ 26,857	\$ 2,530
02 41 19 (b)	Removal of Existing Structures and Obstructions	LS	1	10,743	8,679.00	\$ 10,743	\$ 8,679
Subtotal - Demolition Work						\$ 37,600	\$ 11,209
NEW WELL CONSTRUCTION AND DEVELOPMENT							
33 21 00 (l)	Reaming to 24-inch	LF	476	70	241.68	\$ 33,239	\$ 115,040
33 21 00 (m)	16-inch Dia. HSLA Well Casing	LF	427	161	409.73	\$ 68,809	\$ 174,955
33 21 00 (n)	16-inch Dia. SS 304 Well screen	LF	22	188	802.27	\$ 4,136	\$ 17,650
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	LF	27	129	1,008.52	\$ 3,481	\$ 27,230
33 21 00 (p)	Gravel Pack and Sanitary Seal	LS	1	3,223	14,921.00	\$ 3,223	\$ 14,921
33 21 00 (q)	Well Development	LS	1	281,466	45,933.00	\$ 281,466	\$ 45,933
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	LS	1	168,665	69,390.00	\$ 168,665	\$ 69,390
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	LS	1	31,155	36,600.00	\$ 31,155	\$ 36,600
33 21 00 (t)	Complete Well Monitoring	LS	1	3,223	3,050.00	\$ 3,223	\$ 3,050
33 21 00 (u)	Complete Water Quality Analysis	LS	1	5,909	9,906.00	\$ 5,909	\$ 9,906
33 21 00 (v)	Video Log	LS	1	1,611	5,636.00	\$ 1,611	\$ 5,636
33 21 00 (w)	Disinfection	LS	1	1,611	4,880.00	\$ 1,611	\$ 4,880
33 21 00 (x)	GEPA Well Operation Permit	LS	1	8,057	1,243.00	\$ 8,057	\$ 1,243
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	LS	1	3,223	6,576.00	\$ 3,223	\$ 6,576
Subtotal - New Well Construction and Development						\$ 617,808	\$ 533,009.37
SITework							
31 10 00	Site Clearing	LS	1	3,223	992.00	\$ 3,223	\$ 992
32 31 13 (a)	6-foot High Chain Link Fence with 6-inch High CMU Wall	LF	222	38	67.18	\$ 8,347	\$ 14,914
32 31 13 (c)	14-foot Wide Chain Link Vehicular Gate	EA	2	4,297	2,088.50	\$ 8,594	\$ 4,177
Subtotal - Sitework						\$ 20,165	\$ 20,082.96
NEW SITE WATER PIPING							
33 11 16 (a)	24" Diameter PVC Pipe	LF	60	430	408.45	\$ 25,783	\$ 24,507
33 11 16 (b)	6" Diameter PVC Pipe	LF	50	107	271.14	\$ 5,371	\$ 13,557
33 11 16 (c)	2" Diameter PVC Pipe	LF	60	54	59.85	\$ 3,223	\$ 3,591
33 11 16 (d)	1" Diameter PVC Pipe	LF	80	32	51.33	\$ 2,578	\$ 4,106
33 11 16 (e)	3/4" Diameter PVC Pipe	LF	20	27	52.95	\$ 537	\$ 1,059
33 11 16 (f)	Hose Bibb	LS	1	1,074	61.00	\$ 1,074	\$ 61
33 11 16 (g)	Chlorine Contact Utility Vault	LS	1	3,223	7,544.00	\$ 3,223	\$ 7,544
Subtotal - New Site Water Piping						\$ 41,790	\$ 54,425.40
ELECTRICAL WORK							
26 05 00 (a)	Site Electrical Demolition Work	LS	1	16,114	2,830.00	\$ 16,114	\$ 2,830
26 05 00 (b)	Site Electrical Improvements	LS	1	107,430	5,753.00	\$ 107,430	\$ 5,753
26 05 00 (c)	Rehabilitation of Existing Electrical Room	LS	1	42,972	2,249.00	\$ 42,972	\$ 2,249
25 36 13	Process Instrumentation	LS	1	16,114	37,177.00	\$ 16,114	\$ 37,177
40 94 43	Process Controller and Graphic Recorder	LS	1	12,892	21,984.00	\$ 12,892	\$ 21,984
Subtotal - Electrical Work						\$ 195,523	\$ 69,993
MECHANICAL WORK							
23 31 16	Fiberglass Reinforced Plastic Duct	LS	1	4,297	1,718.00	\$ 4,297	\$ 1,718
23 34 00	Ventilation Fans	LS	1	5,371	2,433.00	\$ 5,371	\$ 2,433
26 28 23	Enclosed Circuit Breakers	LS	1	2,686	1,142.00	\$ 2,686	\$ 1,142


GUAM WATERWORKS AUTHORITY
Island-Wide Well Rehabilitation Bid Analysis
GWA Project No. W15-004-EPA

BID SCHEDULE

Table 7: Rehabilitation of Well M-09

Description: Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement rehabilitation of existing Electrical Room and Chlorinator Building and other related work

Pay Item	Description	Unit	Qty	Engineer's Unit Cost	PacificRIM Constructors Unit Cost*	Engineer's Extended Price	PacificRIM Constructors Extended Price
Subtotal - Mechanical Work						\$ 12,354	\$ 5,293
CHLORINATION SYSTEM							
43 32 76 (a)	New Chlorination System	LS	1	112,801	30,232.00	\$ 112,801	\$ 30,232
43 32 76 (b)	Rehabilitation of Existing Chlorinator Building	LS	1	16,114	4,676.27	\$ 16,114	\$ 4,676.27
43 32 76 (c)	Sample Port	LS	1	1,611	3,787.00	\$ 1,611	\$ 3,787
22 45 33	Emergency Shower and Eye Wash	LS	1	3,223	3,799.00	\$ 3,223	\$ 3,799
10 44 16	Fire Extinguisher	EA	1	537	284.00	\$ 537	\$ 284
Subtotal - Chlorination System						\$ 134,287	\$ 42,778.27
Total Additive Bid #7						\$ 1,123,449	\$ 842,563

NOTE: 2016 Unit Cost reflects the % of the cost increase from April 2014 to February 2016, according to the ENR Construction Cost Index (with an additional 3% mark-up for Guam).

% Change: 7.43%
 Feb-16 10,181.92
 Apr-14 9,750.00
 Guam % Inc. 3.0%

Total Cost Table 7 (Total Base Bid + Total Additive Bid #7)

\$ 1,208,124.97 \$ 983,409.00

Attachment #3 – Bid Proposals

Prepared for
Guam Waterworks Authority

**GWA ISLAND-WIDE WELL SITE REHABILITATION PROJECT
GWA PROJECT NO. W15-004-EPA**

BID SUMMARY

1	WELL D-03	BASE BID	\$	129,567.00
		ADDITIVE BID #1	\$	818,361.00
		Subtotal 1	\$	947,928.00
2	WELL D-17	BASE BID	\$	114,747.00
		ADDITIVE BID #2	\$	741,100.00
		Subtotal 2	\$	855,847.00
3	WELL D-18	BASE BID	\$	118,571.00
		ADDITIVE BID #3	\$	765,392.00
		Subtotal 3	\$	883,963.00
4	WELL D-22	BASE BID	\$	134,866.00
		ADDITIVE BID #4	\$	883,875.00
		Subtotal 4	\$	1,018,741.00
7	WELL M-09	BASE BID	\$	140,846.00
		ADDITIVE BID #7	\$	842,563.00
		Subtotal 7	\$	983,409.00

**Total Bid Amount (Item 1 to 7) in the amount of
THOUSAND EIGHT HUNDRED EIGHTY EIGHT**

FOUR MILLION SIX HUNDRED EIGHTY NINE
dollars and no cents. **\$ 4,689,888.00**

GWA ISLAND-WIDE WELL SITE REHABILITATION PROJECT GWA PROJECT NO. W15-004-EPA

BID SCHEDULE

Pay Item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
	Rehabilitation of Well D-03				
	Description:				
	Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical and Chlorinator Rooms and other related work				
BASE BID:					
WELL EXPLORATION					
33 21 00 (a)	Mobilization and Demobilization	1	LS	11,690.50	11,690.50
33 21 00 (b)	GEPA Well Drilling Permit	1	LS	936.00	936.00
33 21 00 (c)	Site Access and Preparation	1	LS	2,562.00	2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	410	LF	135.25	55,452.50
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	1	LS	18,300.00	18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (h)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (i)	Complete Well Monitoring	1	LS	3,660.00	3,660.00
33 21 00 (j)	Temporary Well Protective Cover	1	LS	854.00	854.00
33 21 00 (k)	Pilot Hole Abandonment	1	LS	14,006.00	14,006.00
Subtotal - Well Exploration					\$ 129,567.00
ADDITIVE BID #1:					
GENERAL REQUIREMENTS					
01 71 13	Mobilization and Demobilization	1	LS	98,256.00	98,256.00
C-2	Permits and Clearances	1	LS	6,444.00	6,444.00
01 50 00 (a)	Temporary Traffic Control	1	LS	1,357.00	1,357.00
01 50 00 (b)	Temporary Environmental Control	1	LS	1,121.00	1,121.00
Subtotal - General Requirements					\$ 107,178.00
DEMOLITION WORK					
02 41 19 (a)	Decommissioning of Existing Well	1	LS	19,610.00	19,610.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	1	LS	8,308.00	8,308.00
Subtotal - Demolition Work					\$ 27,918.00
NEW WELL CONSTRUCTION AND DEVELOPMENT					
33 21 00 (l)	Reaming to 24-inch	410	LF	229.72	94,185.20
33 21 00 (m)	16-inch Dia. HSLA Well Casing	360	LF	434.69	156,488.40
33 21 00 (n)	16-inch Dia. SS 304 Well screen	22	LF	644.14	14,171.08
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	28	LF	649.22	18,178.16
33 21 00 (p)	Gravel Pack and Sanitary Seal	1	LS	14,640.00	14,640.00
33 21 00 (q)	Well Development	1	LS	45,933.00	45,933.00
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	1	LS	59,492.00	59,492.00
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	1	LS	36,600.00	36,600.00
33 21 00 (t)	Complete Well Monitoring	1	LS	4,270.00	4,270.00
33 21 00 (u)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (v)	Video Log	1	LS	5,636.00	5,636.00
33 21 00 (w)	Disinfection	1	LS	4,880.00	4,880.00
33 21 00 (x)	GEPA Well Operation Permit	1	LS	1,281.00	1,281.00
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	1	LS	6,576.00	6,576.00
Subtotal - New Well Construction and Development					\$ 472,236.84

"REVISION-01"

BID SCHEDULE

2 of 10

Exhibit A (21 of 28) "REVISION-01"

GWA ISLAND-WIDE WELL SITE REHABILITATION PROJECT GWA PROJECT NO. W15-004-EPA

BID SCHEDULE

Pay Item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
	Rehabilitation of Well D-17				
	Description:				
	Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work				
BASE BID:					
WELL EXPLORATION					
33 21 00 (a)	Mobilization and Demobilization	1	LS	10,358.00	10,358.00
33 21 00 (b)	GEPA Well Drilling Permit	1	LS	828.00	828.00
33 21 00 (c)	Site Access and Preparation	1	LS	2,562.00	2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	329	LF	140.00	46,060.00
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	1	LS	18,300.00	18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (h)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (i)	Complete Well Monitoring	1	LS	2,440.00	2,440.00
33 21 00 (j)	Temporary Well Protective Cover	1	LS	854.00	854.00
33 21 00 (k)	Pilot Hole Abandonment	1	LS	11,239.00	11,239.00
Subtotal - Well Exploration					\$ 114,747.00
ADDITIVE BID #2:					
GENERAL REQUIREMENTS					
01 71 13	Mobilization and Demobilization	1	LS	89,217.00	89,217.00
C-2	Permits and Clearances	1	LS	5,851.00	5,851.00
01 50 00 (a)	Temporary Traffic Control	1	LS	-	-
01 50 00 (b)	Temporary Environmental Control	1	LS	1,782.00	1,782.00
Subtotal - General Requirements					\$ 96,850.00
DEMOLITION WORK					
02 41 19 (a)	Decommissioning of Existing Well	1	LS	2,530.00	2,530.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	1	LS	7,752.00	7,752.00
Subtotal - Demolition Work					\$ 10,282.00
NEW WELL CONSTRUCTION AND DEVELOPMENT					
33 21 00 (l)	Reaming to 24-inch	329	LF	251.90	82,875.10
33 21 00 (m)	16-inch Dia. HSLA Well Casing	279	LF	444.68	124,065.72
33 21 00 (n)	16-inch Dia. SS 304 Well screen	22	LF	644.14	14,171.08
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	28	LF	649.21	18,177.88
33 21 00 (p)	Gravel Pack and Sanitary Seal	1	LS	12,200.00	12,200.00
33 21 00 (q)	Well Development	1	LS	45,933.00	45,933.00
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	1	LS	67,309.00	67,309.00
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	1	LS	36,600.00	36,600.00
33 21 00 (t)	Complete Well Monitoring	1	LS	3,050.00	3,050.00
33 21 00 (u)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (v)	Video Log	1	LS	5,636.00	5,636.00
33 21 00 (w)	Disinfection	1	LS	4,880.00	4,880.00
33 21 00 (x)	GEPA Well Operation Permit	1	LS	1,281.00	1,281.00
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	1	LS	6,576.00	6,576.00
Subtotal - New Well Construction and Development					\$ 432,660.78

"REVISION-01"

BID SCHEDULE

4 of 10

Exhibit A (23 of 28)

"REVISION-01"

GWA ISLAND-WIDE WELL SITE REHABILITATION PROJECT GWA PROJECT NO. W15-004-EPA

BID SCHEDULE

Pay Item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
	Rehabilitation of Well D-18				
	Description:				
	Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work				
BASE BID:					
WELL EXPLORATION					
33 21 00 (a)	Mobilization and Demobilization	1	LS	10,701.64	10,701.64
33 21 00 (b)	GEPA Well Drilling Permit	1	LS	856.00	856.00
33 21 00 (c)	Site Access and Preparation	1	LS	2,562.00	2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	352	LF	138.43	48,727.36
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	1	LS	18,300.00	18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (h)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (i)	Complete Well Monitoring	1	LS	2,440.00	2,440.00
33 21 00 (j)	Temporary Well Protective Cover	1	LS	854.00	854.00
33 21 00 (k)	Pilot Hole Abandonment	1	LS	12,024.00	12,024.00
Subtotal - Well Exploration				\$	118,571.00
ADDITIVE BID #3:					
GENERAL REQUIREMENTS					
01 71 13	Mobilization and Demobilization	1	LS	91,795.00	91,795.00
C-2	Permits and Clearances	1	LS	6,019.00	6,019.00
01 50 00 (a)	Temporary Traffic Control	1	LS	1,357.00	1,357.00
01 50 00 (b)	Temporary Environmental Control	1	LS	1,782.00	1,782.00
Subtotal - General Requirements				\$	100,953.00
DEMOLITION WORK					
02 41 19 (a)	Decommissioning of Existing Well	1	LS	2,530.00	2,530.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	1	LS	7,386.00	7,386.00
Subtotal - Demolition Work				\$	9,916.00
NEW WELL CONSTRUCTION AND DEVELOPMENT					
33 21 00 (l)	Reaming to 24-inch	352	LF	248.99	87,644.48
33 21 00 (m)	16-inch Dia. HSLA Well Casing	292	LF	448.26	130,891.92
33 21 00 (n)	16-inch Dia. SS 304 Well screen	30	LF	644.13	19,323.90
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	30	LF	646.43	19,392.90
33 21 00 (p)	Gravel Pack and Sanitary Seal	1	LS	14,640.00	14,640.00
33 21 00 (q)	Well Development	1	LS	45,933.00	45,933.00
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	1	LS	70,076.00	70,076.00
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	1	LS	36,600.00	36,600.00
33 21 00 (t)	Complete Well Monitoring	1	LS	3,050.00	3,050.00
33 21 00 (u)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (v)	Video Log	1	LS	5,636.00	5,636.00
33 21 00 (w)	Disinfection	1	LS	4,880.00	4,880.00
33 21 00 (x)	GEPA Well Operation Permit	1	LS	1,281.00	1,281.00
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	1	LS	6,576.00	6,576.00
Subtotal - New Well Construction and Development				\$	455,831.20

"REVISION-01"

BID SCHEDULE

6 of 10

Exhibit A (25 of 28)

"REVISION-01"

GWA ISLAND-WIDE WELL SITE REHABILITATION PROJECT GWA PROJECT NO. W15-004-EPA

BID SCHEDULE

Pay Item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
Rehabilitation of Well D-22					
	Description:				
	Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work				
BASE BID:					
WELL EXPLORATION					
33 21 00 (a)	Mobilization and Demobilization	1	LS	12,165.00	12,165.00
33 21 00 (b)	GEPA Well Drilling Permit	1	LS	974.00	974.00
33 21 00 (c)	Site Access and Preparation	1	LS	2,562.00	2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	450	LF	133.54	60,093.00
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	1	LS	18,300.00	18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (h)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (i)	Complete Well Monitoring	1	LS	2,440.00	2,440.00
33 21 00 (j)	Temporary Well Protective Cover	1	LS	854.00	854.00
33 21 00 (k)	Pilot Hole Abandonment	1	LS	15,372.00	15,372.00
Subtotal - Well Exploration				\$	134,866.00
ADDITIVE BID #4:					
GENERAL REQUIREMENTS					
01 71 13	Mobilization and Demobilization	1	LS	104,564.00	104,564.00
C-2	Permits and Clearances	1	LS	6,857.00	6,857.00
01 50 00 (a)	Temporary Traffic Control	1	LS	1,357.00	1,357.00
01 50 00 (b)	Temporary Environmental Control	1	LS	1,152.00	1,152.00
Subtotal - General Requirements				\$	113,930.00
DEMOLITION WORK					
02 41 19 (a)	Decommissioning of Existing Well	1	LS	2,530.00	2,530.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	1	LS	8,679.00	8,679.00
Subtotal - Demolition Work				\$	11,209.00
NEW WELL CONSTRUCTION AND DEVELOPMENT					
33 21 00 (l)	Reaming to 24-inch	450	LF	245.36	110,412.00
33 21 00 (m)	16-inch Dia. HSLA Well Casing	330	LF	472.26	155,845.80
33 21 00 (n)	16-inch Dia. SS 304 Well screen	40	LF	644.15	25,766.00
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	80	LF	622.14	49,771.20
33 21 00 (p)	Gravel Pack and Sanitary Seal	1	LS	15,860.00	15,860.00
33 21 00 (q)	Well Development	1	LS	45,933.00	45,933.00
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	1	LS	68,548.00	68,548.00
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	1	LS	36,600.00	36,600.00
33 21 00 (t)	Complete Well Monitoring	1	LS	3,050.00	3,050.00
33 21 00 (u)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (v)	Video Log	1	LS	5,636.00	5,636.00
33 21 00 (w)	Disinfection	1	LS	4,880.00	4,880.00
33 21 00 (x)	GEPA Well Operation Permit	1	LS	1,153.00	1,153.00
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	1	LS	6,576.00	6,576.00
Subtotal - New Well Construction and Development				\$	539,937.00

"REVISION-01"

BID SCHEDULE

8 of 10

GWA ISLAND-WIDE WELL SITE REHABILITATION PROJECT
GWA PROJECT NO. W15-004-EPA

BID SCHEDULE

Pay Item	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
	Rehabilitation of Well M-09				
	Description:				
	Relocation of existing well, well piping modifications, well electrical improvements, perimeter fence replacement, rehabilitation of existing Electrical Room and Chlorinator Building and other related work				
BASE BID:					
WELL EXPLORATION					
33 21 00 (a)	Mobilization and Demobilization	1	LS	12,703.44	12,703.44
33 21 00 (b)	GEPA Well Drilling Permit	1	LS	1,119.00	1,119.00
33 21 00 (c)	Site Access and Preparation	1	LS	2,562.00	2,562.00
33 21 00 (d)	12-inch Diameter Pilot Hole	476	LF	132.56	63,098.56
33 21 00 (e)	Pump, Motor and Accessories Set Up and Removal	1	LS	18,300.00	18,300.00
33 21 00 (f)	6-hour Step Drawdown + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (g)	24-hour Constant Rate Pump + Recovery Tests	1	LS	6,100.00	6,100.00
33 21 00 (h)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (i)	Complete Well Monitoring	1	LS	2,257.00	2,257.00
33 21 00 (j)	Temporary Well Protective Cover	1	LS	2,440.00	2,440.00
33 21 00 (k)	Pilot Hole Abandonment	1	LS	16,260.00	16,260.00
Subtotal - Well Exploration				\$	140,846.00
ADDITIVE BID #7:					
GENERAL REQUIREMENTS					
01 71 13	Mobilization and Demobilization	1	LS	94,756.00	94,756.00
C-2	Permits and Clearances	1	LS	6,214.00	6,214.00
01 50 00 (a)	Temporary Traffic Control	1	LS	3,758.00	3,758.00
01 50 00 (b)	Temporary Environmental Control	1	LS	1,044.00	1,044.00
Subtotal - General Requirements				\$	105,772.00
DEMOLITION WORK					
02 41 19 (a)	Decommissioning of Existing Well	1	LS	2,530.00	2,530.00
02 41 19 (b)	Removal of Existing Structures and Obstructions	1	LS	8,679.00	8,679.00
Subtotal - Demolition Work				\$	11,209.00
NEW WELL CONSTRUCTION AND DEVELOPMENT					
33 21 00 (b)	Reaming to 24-inch	476	LF	241.68	115,039.68
33 21 00 (m)	16-inch Dia. HSLA Well Casing	427	LF	409.73	174,954.71
33 21 00 (m)	16-inch Dia. SS 304 Well screen	22	LF	802.27	17,649.94
33 21 00 (o)	16-inch Dia. SS 304 (shoe and casing above the screen)	27	LF	1,008.52	27,230.04
33 21 00 (p)	Gravel Pack and Sanitary Seal	1	LS	14,921.00	14,921.00
33 21 00 (q)	Well Development	1	LS	45,933.00	45,933.00
33 21 00 (r)	Permanent Pump, Motor and Accessories Supply & Installation	1	LS	69,390.00	69,390.00
33 21 00 (s)	72-hour Constant Rate Pump + Recovery Tests	1	LS	36,600.00	36,600.00
33 21 00 (t)	Complete Well Monitoring	1	LS	3,050.00	3,050.00
33 21 00 (u)	Complete Water Quality Analysis	1	LS	9,906.00	9,906.00
33 21 00 (v)	Video Log	1	LS	5,636.00	5,636.00
33 21 00 (w)	Disinfection	1	LS	4,880.00	4,880.00
33 21 00 (x)	GEPA Well Operation Permit	1	LS	1,243.00	1,243.00
33 21 00 (y)	Instruments/Testers (Specification Section 33 21 00-2.6 A)	1	LS	6,576.00	6,576.00
Subtotal - New Well Construction and Development				\$	533,009.37

"REVISION-01"

BID SCHEDULE

10 of 10