

AGENDA

REGULAR MEETING ON SEPTEMBER 28, 2018

3:00 P.M. AT OAKDALE, NEW YORK

PUBLIC COMMENT

**PRESENTATION: SCWA-USGS WORKPLAN AND JOINT FUNDING AGREEMENT,
BY USGS**

MINUTES FOR APPROVAL

1. Regular Meeting – August 28, 2018

CONTRACTS – AMEND

- 2a. Amend Resolution No. 221-07-2018 for Contract No. 7536 for furnishing and delivery of “No Lead” Meter Settings during the two-year period beginning September 1, 2018 based on the following:

Ford Meter Box Company Inc., low responsive bidder, add line items 3 and 7 from Group I; add line item 12 from Group II. The items are in compliance with the specifications, resulting in a change in the overall estimated contract value from \$16,567.64 to \$30,751.14

AY McDonald Mfg. Co., reject line item 3 from Group I; reject line item 12 from Group II, as they do not meet specifications therefore items are determined “Non-Responsive”. As a result there is a change in the overall estimated contract value from \$267,041.80 to \$253,854.80.

Mueller Co., reject line item 7 from Group I, as it does not meet specifications therefore item is determined “Non-Responsive”. As a result there is a change in the overall estimated contract value from \$77,636.90 to \$77,396.90

No proposed change to the award issued to Cambridge Brass.

CONTRACTS – EXTEND

- 3a. Contract 7467 - for towing service for Authority vehicles, eastern and western zones, during the one-year period beginning November 1, 2018 – extend with Hendrickson Emergency Service Inc. (eastern region) of Islandia, New York; extend with Bang’s Towing Inc. (western region) of Amityville, New York.
- 3b. Contract 7472 – for testing of pumping equipment at various Authority owned well field sites during the one-year period beginning December 1, 2018 – extend with Victor Elefante Technical Services, Inc., of Center Moriches, New York.
- 3c. Contract 7473 – for furnishing and delivery of automatic-delayed-transition transfer switches during the one-year period beginning December 1, 2018 – extend with GT Power Systems Inc., of Wainscott, New York.
- 3d. Contract 7479 – for furnishing and delivery of liquid caustic soda to the Authority pump stations located at Broadhollow Road and Smith Street, East Farmingdale, during the one-year period beginning January 1, 2019 – extend with Univar USA Inc. of Morrisville, Pennsylvania.

CONTRACTS – AWARD/REJECT

- 4a. Contract 7540 – for furnishing and delivery of automatic blowoff control cable assemblies.
- 4b. Contract 7544 – for maintenance of heating, ventilation and air conditioning equipment at the Authority’s Laboratory and Administration Building during the two-year period beginning November 1, 2018.
- 4c. Contract 7545 – for valve box maintenance during the one-year period beginning November 1, 2018.
- 4d. Contract 7547 – for furnishing and delivery of sodium hypochlorite solution during the two-year period beginning November 1, 2018.
- 4e. Contract 7548 – for constructing two (2) 20”x10” diameter wells (Nos. 1A & 2A) approximately 375 feet deep – Nichols Road well field, Islandia, Town of Islip, NY.
- 4f. Contract 7549 – for construction of a 20”x10” diameter well (No. 2A), approximately 540 feet deep - Jayne Boulevard well field, Terryville, Town of Brookhaven, NY.

- 4g. Contract 7550 – for drilling of wells and test borings; Zone B (East of William Floyd Parkway) during the one-year period beginning October 1, 2018.
- 4h. Contract 7552 – for removal and disposal of brine wastewater from the South Spur well field and pump station site, East Northport, Town of Huntington, during the one-year period beginning November 1, 2018.
- 4i. Contract 7553 – for maintenance of fueling facilities at various Authority sites during the one-year period beginning November 1, 2018.

GENERAL

5. Special Services

- a) RFP 1478 – renew with Accusource for employment screening services during the one-year period beginning January 1, 2019.
- b) RFP 1521 – enter into an agreement with Vehicle Tracking Systems (VTS) for Automatic Vehicle Locator and Monitoring System (AVLM) during the two year period beginning December 1, 2018, with option to extend at an estimated monthly cost of \$2,200.
- c) RFP 1525 – enter into an agreement with H2M Group for consulting engineering services for the Authority’s five-year report on the properties and operations of the Authority in the amount of \$129,000.
- d) ITRON Master Sales Agreement
Renew service agreement with ITRON which covers maintenance, repair, 24-Hour customer support, preventive maintenance, technical support, software releases and replacement of batteries, hand straps and antennas during the one-year period beginning January 1, 2019, with a 11% decrease from last year reflecting discontinued support of obsolete hardware, in the amount of \$54,121.02

6. Water Supply Systems

a) Dissolution of Water Supply Districts

Dissolution of Brookhaven Water Supply Districts (WSD) – Authorize dissolution of Holtsville WSD dated August 13, 1981, Oak Street Hanover Place WSD dated July 24, 1984, Shirley WSD dated November 28, 1984, as the water revenues exceed the guaranteed annual bill in each WSD; authorize dissolution of Medford WSD dated April 26, 1985 upon payment of \$258,576.88 (or the then current amount at the time of the payment), which is the amount of the unpaid balance utilizing present value calculations and the estimated annual credits and further authorize CEO and/or any Member to execute all necessary documents to effect each dissolution.

7. Policies
 - a) Policy and Procedures – Policy 301 – Rescind – Temporary Management Shift Change
Rescind Policy and Procedures – Policy 301 – pursuant to attached outline.
 - b) Policy and Procedures – Policy 418 – Combating Sexual Harassment
Approve and adopt Policy and Procedures – Policy 418 – pursuant to attached outline.

8. Budget
 - a) Budget Amendment #2 - May 31, 2019
Authorize revision to the budget for year ending May 31, 2019, as follows:
 - Decrease to Item 065-19 (New Pump Station Infrastructure) in the amount of \$150,000;
 - Increase to Item 100-19 (General Services) in the amount of \$150,000

This transfer will not increase the current capital budget of \$84,540,000.

9. Rules and Regulations
 - a) Payment Plan – Chabbad at Stony Brook
Authorize a payment plan for the installation of water service and fire lines at the Chabbad at Stony Brook’s Community Center in the amount of \$57,018, which will amortize monthly over a ten (10) year period.

10. Government
 - a) USGS Cooperative Funding Agreement
Renew joint funding agreement with United States Geological Survey (USGS) for a 5-year period beginning October 1, 2018 through September 30, 2023, with a rent increase of 7.3% and in accordance with the funding levels including cash payments and rental of office space in Coram and subject to the approval of the Authority’s Legal Counsel.

11. Equipment
 - a) Commercial Boulevard Full Scale Pilot AOP System Peroxide Analyzer
Authorize the payment of \$2,000 to Hach Company of Loveland, Colorado, for the use of their Peroxide Analyzer at the Authority’s Commercial Boulevard Full Scale Pilot AOP System, on a trial period, and to authorize the purchase of the unit (at a total cost not to exceed \$25,000), with the CEO’s approval, if it has met expectations at the end of the trial period.

12. Meetings, Seminars, Training, Conferences

a) AWWA Water Infrastructure Conference

Authorize the attendance of Jason White, Associate Civil Engineer, at the AWWA Water Infrastructure Conference in Atlanta, Georgia, from October 28, 2018 through October 31, 2018, at an approximate cost of \$2,100.

INVOICES - To be paid from the Operating Fund:

13a. <u>Dvirka & Bartilucci</u>	\$12,370.00
13b. <u>Long Island Association, Inc.</u>	1,600.00
13c. <u>Milber Makris Plousadis & Seiden, LLP</u>	390.00
13d. <u>Putney, Twombly, Hall & Hirson LLP (Labor Counsel)</u>	16,425.33
13e. <u>Sobel Pevzner, LLC</u>	824.00

NEXT MEETING – Scheduled for **November 1, 2018, at 5:30 p.m.** at the Administration Building, Oakdale.

NEW BUSINESS & PUBLIC COMMENT

EXECUTIVE SESSION

**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

INTEROFFICE CORRESPONDENCE

DATE: September 14, 2018

TO: Chairman/Board Members

FROM: Jeff Szabo, Chief Executive Officer

SUBJECT: Amendment to Resolution# 221-07-2018 (July 31, 2018 Board Meeting) to Contract No. 7536 –
Furnishing & Delivery of “No Lead” Meter Settings -
September 1, 2018 to August 31, 2020

We seek the Board’s approval to amend the above referenced Board Resolution based on the following:

Ford Meter Box Company Inc., low responsive bidder, add line items 3 and 7 from Group I; add line item 12 from Group II. The items are in compliance with the specifications, resulting in a change in the overall estimated contract value from \$16,567.64 to \$30,751.14

AY McDonald Mfg. Co., reject line item 3 from Group I; reject line item 12 from Group II, as they do not meet specifications therefore items are determined “Non-Responsive”. As a result there is a change in the overall estimated contract value from \$267,041.80 to \$253,854.80.

Mueller Co., reject line item 7 from Group I, as it does not meet specifications therefore item is determined “Non-Responsive”. As a result there is a change in the overall estimated contract value from \$77,636.90 to \$77,396.90

No proposed change to the award issued to Cambridge Brass

Attached to this memorandum are the original Board Letter and subsequent Board Resolution executed for your information.

Reviewed by:

Jeff Szabo, Chief Executive Officer —
M. Torres, Purchasing Director —
J. Pokorny, Deputy, CEO Operations —
P. Kuzman, Director of Construction Maintenance —

Attachments: 1 memo & 1 tabulation
Original Proof of Publication
List of Firms Invited to Bid

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

INTEROFFICE CORRESPONDENCE

DATE: July 16, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Contract No. 7536– Furnishing & Delivery of "No Lead" Meter Settings -
September 1, 2018 to August 31, 2020

Opened: June 29, 2018 Legal Notice: Newsday
No. of Bids received: 4 Published: June 8, 2018
Documents Sent: 5

Low Bidders: Group I (Items 6, 9); Group II (Items 15-17); Group III (Item 20); Group IV (Item 23)
Cambridge Brass
Bid Amount: \$307,300

Group I (Items 2, 5); Group IV (Items 24); Group V (Items 25, 28, 30); Group VI (Item 32)
Ford Meter Box Company, Inc.
Bid Amount: \$16,567.64

Group I (Items 1, 3); Group II (Items 11-13); Group IV (Item 21); Group V (Item 29)
AY McDonald Mfg. Co.
Bid Amount: \$267,041.80

Group I (Items 4, 7-8); Group II (Items 10, 14); Group III (Items 18-19);
Group IV (item 22); Group V (Items 26-27); Group VI (Item 31)
Mueller Co.
Bid Amount: \$77,636.90

Recommendation: Award to Low Bidders, for the line items noted

Comments: The above recommendation represents the most cost effective scenario for the Authority, greater savings in awarding by line items as opposed to group awards. Unit price comparison reflects an average 23% increase, refer to attached unit cost comparison document.

Cambridge Brass holds no additional current contracts. In fiscal year ending 5/31/18 (FY18) they were paid \$551,362 (under contract #7360[Partial] – "No Lead" Meter Settings, expires August 2018 with a total estimated value of \$882,815).

Contractor's performance on the above referenced contracts has been satisfactory.

Ford Meter Box Co., Inc., currently holds one (1) additional contract (#7475[Partial] – Furnish and Deliver 'No Lead' Brass/Bronze Fittings for Underground Service Lines, expires November 2019, amount: \$570,544).

In fiscal year ending 5/31/18 (FY18), they were paid \$212,281 (held contracts: #7270[Partial] – Furnish and Deliver 'No Lead' Brass/Bronze Fittings for Underground Service Lines, expired November 2017; #7314[Partial] – Furnishing & Delivery of Ductile Iron Pressure Fittings, expired March 2018; #7360[Partial] – "No Lead" Meter Settings, expires August 2018).

Contractor's performance on the above referenced contracts has been satisfactory.

AY McDonald holds one (1) additional current contract (#7475[Partial] – Furnish and Deliver 'No Lead' Brass/Bronze Fittings for Underground Service Lines, expires November 2019, amount: \$40,337). In fiscal year ending 5/31/18 (FY18) they were paid \$141,093 (under contract #7270[Partial] – Furnish and Deliver "No Lead" Brass/Bronze Fittings for Underground Service Lines, expired November 2017; #7360[Partial] – "No Lead" Meter Settings, expires August 2018).

Contractor's performance on the above referenced contracts has been satisfactory.

Mueller Co., currently holds two (2) additional contracts (#7520 – Furnishing & Delivery of Combined Drills & Taps & Tapping Machine Parts, expires June 2019, amount: \$42,477; #7417 – Furnish & Deliver Complete Hydrants, Hydrant Tops & Parts, expires February 2020). In fiscal year ending 5/31/18 (FY 18) they were paid \$629,549 (under contract# 7340 – Furnishing & Delivery of Combined Drills, Taps and Tapping Machine Parts, expired May 2018; #7270[Partial] – Furnish and Deliver 'No Lead' Brass/Bronze Fittings for Underground Service Lines, expired November 2017; #7360 – Furnishing & Delivery of "No Lead" Meter Settings, expires August 2018; #7355 – Furnishing & Delivery of Sampling Stations, expired June 2018).

Contractor's performance on the above referenced contracts has been satisfactory.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
J. Pokorny, Deputy, CEO Operations
P. Kuzman, Director of Construction Maintenance



Attachments: 1 memo & 1 tabulation
Original Proof of Publication
List of Firms Invited to Bid

Purchase and Deliver (NO LEAD) Meter Settings

Bid Opening, 06/29/2018

Line Item	Material	Qty. in Base Unit	Bladder:	House:	Street:	City:	Region:	Post Code:	Item Text:	Total Val.:	Unit Price:	Rank:	Bladder:	House:	Street:	City:	Region:	Post Code:	Item Text:	Total Val.:	Unit Price:	Rank:	
00010	15504	400 EA	3,256.00	8.14						3,188.00	7.97	1								3,292.00	8.23	No Bid	
00020	15506	200 EA	4,070.00	24.35						4,164.00	23.82	2								4,704.00	23.52	1	
00030	15505	400 EA	No Bid							10,064.00	25.16	1								10,576.00	26.44	No Bid	
00040	15510	175 EA	10,377.50	59.30						9,863.00	56.36	3								10,648.75	60.85	4	
00050	15507	150 EA	7,303.50	48.69						6,943.50	46.29	2								6,642.00	44.28	1	
00060	15194	15,000 EA	191,400.00	12.76						203,250.00	13.55	2								209,850.00	13.99	3	
00070	15427	1,000 EA	No Bid							330.00	0.33	No Bid								330.00	0.33	2	
00080	15424	5,000 EA	750.00	0.15						1,790.00	0.35	2								950.00	0.19	3	
00090	15421	5,000 EA	6,550.00	1.31						No Bid		No Bid								No Bid		No Bid	
00100	15511	1,500 EA	27,435.00	14.29						20,955.00	13.97	2								22,260.00	14.84	4	
00110	15515	1,000 EA	52,038.00	37.17						48,864.00	14.76	1								52,038.00	37.17	2	
00120	15513	75 EA	3,123.00	41.64						3,123.00	41.64	1								3,277.50	43.70	2	

6000004786
100002
MUELLER COMPANY
500 WEST ELIZABETH
DICKATOR
IL
62522
Bond

6000004787
101690
FORD METER BOX COMPANY INC
PO BOX 443
HAWASH
TX
75245-5178
Cashiers Check \$38,400.00

6000004788
102172
AY McDONALD MFG CO
PO BOX 65178
DALLAS
TX
75245-5178
Bond

Purchase and Deliver (NO LEAD) Meter Settings

Bid Opening, 06/29/2018

Line Item	Material	Qty. in Base Unit	Blender Name	House No	Street	City	Region	Post Code	Item Text	Total Val. Unit Price	Rank	6000004785	6000004786	6000004787	6000004788	6000004789	6000004790	6000004791	
00130	15518 VALVE, DUAL CHECK, BRASS, 1", OUTSIDE, HL	1,400 EA	102192	CAMBRIDGE BRASS	PO BOX 249	CAMBRIDGE	ON	R1R 5V1	Bond	125,762.00	3	119,546.00	131,656.00	120,708.00	86.22	102172	AV McDONALD MFG CO	PO BOX 443	MOELLER COMPANY
										89.83	1	85.39	94.04	86.22					
00140	18261 VALVE, DUAL CHECK, BRASS, 1", INSIDE	60 EA								5,095.00	4	4,891.20	4,728.00	4,506.00	75.10				
										84.93	3	81.52	78.80	75.10					
00150	15512 COUPLING, BRASS, EXPANSION 1", HL	5,000 EA								107,650.00	1	113,400.00	117,550.00	131,750.00	26.25				
										21.53	2	22.58	23.51	26.25					
00160	15420 GASKET, METAL, 1"	2,000 EA								440.00	1	740.00	440.00	540.00	0.27				
										0.22	4	0.37	0.22	0.27					
00170	15425 GASKET, METAL, 1", C38-14-2.625 COUPL	1,000 C								190.00	1	230.00	190.00						
										0.19	3	0.23	0.19						
00180	15519 VALVE, DUAL CHECK, BRASS, 1-1/2", OUTSIDE, N	40 EA								0,206.40	3	7,970.00	9,816.40	7,284.00	182.12				
										205.16	2	198.25	245.41	182.12					
00190	15524 VALVE, ANGLE METER, FL, 1-1/2" OUTSIDE, HL	45 EA								5,885.10	3	5,867.10	6,145.65	5,720.40	127.12				
										130.78	3	130.38	136.57	127.12					
00200	15422 GASKET, METAL, 1-1/2"	200 EA								242.00	1	378.00	308.00	3,322.00	7.61				
										1.21	3	1.84	1.54	7.61					
00210	15522 VALVE, DUAL CHECK, BRASS, 2", OUTSIDE, HL	180 EA								41,412.60	4	33,706.80	35,240.40	40,406.40	224.48				
										230.07	1	187.26	195.78	224.48					
00220	15525 VALVE, ANGLE METER, BRASS, FL, 2" OUTSIDE, N	180 EA								29,487.60	2	29,620.80	31,262.40	28,886.40	160.48				
										163.82	3	164.56	173.68	160.48					
00230	15423 GASKET, METAL, 2"	600 EA								824.00	1	1,248.00	1,050.00	3,600.00	6.00				
										1.38	3	2.08	1.75	6.00					
00240	15528 ADAPTER, BRASS, 1-1/2" MALE TP-FLANGED, N	1 EA								34.29	3	32.94	32.69	47.20					
										34.29	2	12.94	32.69	47.20					

Furnish and Deliver (NO LEAD) Meter Settings

Bid Opening: 06/29/2018

Line Item Sh. Text Qty. in Base Unit	Material	Quot.:	600004785	600004788	600004787	600004786
		Bidder:	102192	102172	101600	100002
		Name:	CAMBRIDGE BRASS	AY McDONALD MFG CO	FORD METER BOX COMPANY INC	ROELLER COMPANY
		Home:				
		Street:	PO BOX 249	PO BOX 453178	PO BOX 443	500 WEST ELDORADO
		City:	CAMBRIDGE	DALLAS	WABASH	DECATUR
		Region:	OH	TX	IL	IL
		Post Code:	43151	75285-5178	62522	62522
		Item Text:	Bond	Bond	Cashiers Check \$38,400.00	Bond
00250 15529	ADAPTER, BRASS, 1-1/2" FIP, FLANGED, HL 5 EA	Total Val.: Unit Price: Rank:	156.75 31.75 3	152.45 30.49 2	151.30 30.26 1	161.35 32.27 4
00260 15530	ADAPTER, BRASS, 2" FIP, FLANGED, HL 5 EA	Total Val.: Unit Price: Rank:	227.50 45.50 4	219.75 43.95 3	218.10 43.62 2	204.70 40.94 1
00270 15531	ADAPTER, BRASS, 2" FIP, FLANGED, HL 10 EA	Total Val.: Unit Price: Rank:	414.60 41.46 4	396.10 39.61 3	395.20 39.52 2	370.90 37.09 1
00280 15536	ADAPTER, BRASS, 5/8"x3/4" METER TO 3/4" 75 EA	Total Val.: Unit Price: Rank:	1,137.00 15.16 3	594.00 7.92 2	542.25 7.23 1	No Bid
00290 15539	ADAPTER, BRASS, 5/8"x3/4" METER TO 1" 3,000 PAA	Total Val.: Unit Price: Rank:	52,270.00 17.74 3	48,750.00 16.25 1	52,110.00 17.37 2	73,530.00 24.51 4
00300 15532	ADAPTER, BRASS, 1-1/2" METER TO 2"HL F 5 PAA	Total Val.: Unit Price: Rank:	No Bid	749.05 149.81 2	743.40 146.68 1	No Bid
00310 14439	KEY, METER BOX COVER, SMALL HAND STAR 40 EA	Total Val.: Unit Price: Rank:	No Bid	709.60 17.74 3	674.40 16.86 2	597.20 14.93 1
00320 14438	KEY, METER BX COVER, 2" FOR STAND PENT HU 100 EA	Total Val.: Unit Price: Rank:	No Bid	5,141.00 51.41 2	3,752.00 37.52 1	No Bid
Total Quot.		Total Val.: Rank:	678,371.64 1	687,196.29 2	721,574.44 3	764,219.33 4

CERTIFICATION: I HEREBY certify that this is a correct Tabulation of Bids, received, 06/29/2018 for Furnish and Deliver (NO LEAD) Meter Settings, 11:00 AM, prevailing time, Oaktale, New York

Varion Torres, Purchasing Director

**CONTRACT NO. 7536
FURNISHING & DELIVERY OF (NO LEAD) METER SETTINGS
BID OPENING: June 29, 1018**

Contract Documents Sent To:

A. Y. McDonald Mfg Co.	PO Box 508	Dubuque, IA 52004-0508 ERauen@aymcdonald.com sales@aymcdonald.com MRothberg@aymcdonald.com
Cambridge Brass	P.O. Box 249	Cambridge, Ontario N1R5V1 Pemberley@CBrass.com EHesselink@cbrass.com
Ford Meter Box Co.	P.O. Box 443	Wabash, IN 46992 JDeLong@fordmeterbox.com CSausaman@fordmeterbox.com DLeBlanc@fordmeterbox.com
Mueller Co.	500 W. Eldorado St.	Decatur, IL 62522 KLillpop@muellercompany.com AMcLoughlin@muellercompany.com
T. Mina Supply	44-41 Douglaston Parkway	Douglaston, NY 11363 michelle.olsen@tmina.com michael.voyias@tmina.com tom.cox@tmina.com colleenr@tmina.com

NOTICE TO BIDDERS SENT TO:

All Serve Industries	1125 Concord Road	Smyrna, GA 30080
Blackman International Plumbing Supply	2700 Route 112	Medford, NY 11763
Constructamas Inc. Attn: Parry Ermogenous	10 Harbor Park Drive	Port Washington, NY 11050
Delttek	2291 Wood Oak Dr	Heron, VA 20171 Dennis Dioquino
Hays/Lee Brass Company	PO Box 1229	Anniston, AL 36202
Ultimate Metering Attn: Parry Ermogenous	20-22 46 th Street	Astoria, NY 11105
USA Blue Book Attn: Attn: Greg Joyce	PO Box 9004	Gurnee, IL 60031-9004
Bid Reporter	PO Box 250	Yonkers, NY 10710
Construction Information Systems Attn: Nicole Martin	170 Kinnelon Rd Suite 1	Kinnelon, NJ 07405
McGraw Hill Construction Dodge Susan Wanser	47 Arlene Street	Farmingville, NY 11738
Reed Construction Data Document Processing Center	30 Technology Pkwy, South, Ste 500	Norcross, GA 30092-2912

**Present at Bid Opening:
Marlon Torres, Purchasing Director
Kathy Pakula, Purchasing Dept.**

**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

INTEROFFICE CORRESPONDENCE

DATE: September 5, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Extension of Contract No. 7467 – Towing Service for SCWA Vehicles, Eastern & Western Zones
November 1, 2018 to October 31, 2019 (With Option to Extend)

Hendrickson Emergency Service Inc., (Eastern Region); Bang's Towing Inc., (Western Region), by way of attached notifications, have agreed to extend the subject contract for a second year, representing the first of two possible one-year extensions.

Original contract award, September 2017, was for an undetermined amount. Contract for service is based on demand, a Requirements / Open Contract that is driven by usage. Past historical spend for this type of service has been close to \$10,000 per fiscal year. Prior to the issuance of this contract, the Authority had procured for this service via the issuance of small purchase orders as services were rendered.

As of June 1, 2018 (FY19), the Authority has spent approximately \$3,380 with Hendrickson Emergency Service Inc., and \$5,019 with Bang's Towing Inc., under the subject contract.

Both contractors performance on the above referenced contract is satisfactory.

Hendrickson Emergency Service Inc., holds no other contracts. In FY18, they were paid \$16,598.
Bang's Towing Inc., holds no other contracts. In FY18, they were paid \$4,917.

We are requesting contract extension for the one-year term noted above.

Reviewed by:

Jeff Szabo, Chief Executive Officer ✓
M. Torres, Purchasing Director ✓
D. Mancuso, Chief Human Resources Officer ✓
S. Monahan, Fleet Services Manager ✓

Attachments: 1 memo & 1 tabulation,

Pakula, Kathy

From: Torres, Marlon
Sent: Thursday, September 06, 2018 5:06 PM
To: Pakula, Kathy; Costa, Juanita
Subject: FW: SCWA - Hendrickson Towing - #7467A

FYI

Marlon Torres
Director of Purchasing
Suffolk County Water Authority
3525 Sunrise Highway, 2nd Floor
Great River, NY 11739
Telephone: 631-563-0334
Email: Marlon.Torres@SCWA.com



From: Scott Probst [<mailto:scott@hendricksontruck.com>]
Sent: Thursday, September 06, 2018 4:53 PM
To: Torres, Marlon
Subject: SCWA

Marlin,

Hendrickson would like to extend there contract # 7467A to November 30th 2019

--
Thank you,

Scott Probst
Hendrickson Emergency Services, Inc.
140 Hoffman Lane
Islandia, NY 11749

Bang's Towing, Inc.

**67 Albany Avenue
Amityville, NY 11701
Phone: 631-842-2922
Fax: 631 789 8315
Tax I.D. 11-2651555**

August 15, 2018

Marlon Torres, Purchasing Director
Suffolk County Water Authority
PO Box 38
Oakdale, New York 11769

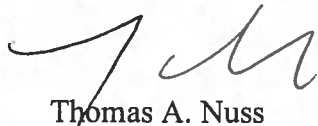
Re: Extension of Contract No. 7467B

Dear Sir:

This is to acknowledge the we do want to be considered for the above extension. Thank you for this opportunity and it is our pleasure to serve SCWA.

Yours truly,

Bang's Towing, Inc.



Thomas A. Nuss
President

**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

INTEROFFICE CORRESPONDENCE

DATE: September 11, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Extension of Contract No. 7472 – Testing of Pumping Equipment at Various Authority Owned Well Field Sites – December 1, 2018 to November 30, 2019

Victor Elefante Technical Services, Inc., by way of attached letter, has agreed to extend the subject contract for a second year representing the first of two possible one-year extensions.

Victor Elefante Technical Services, Inc., has performed responsibly on the above referenced contract.

Original contract award, October 2017, for the initial one-year term, was in the total estimated amount of \$52,400.

Victor Elefante Technical Services, Inc., holds no additional contracts. In fiscal year ending 5/31/18 (FY 18), Victor Elefante Technical Services, Inc., was paid \$49,338.

We are requesting contract extension for the one-year term noted above.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
J. Pokorny, Deputy, CEO Operations
T. Kitcommons, Chief Engineer & Director
of Research & Engineering



Attachments: 1 memo & 1 tabulation



VICTOR ELEFANTE TECHNICAL SERVICES
5 Monte Lane, Center Moriches, New York, 11934

Phone: (631) 878-1191 FAX: 909-2109 velefante@waterwelltech.com

August 29, 2018

Suffolk County Water Authority
P.O. Box 37
Oakdale, NY 11769
Att: Marlon Torres, Purchasing Manager

Re: Contract No. 7472- Testing of Pumping Equipment
Extension of Contract December 1, 2018 to November 1, 2019

Dear Mr. Torres

I agree to extend this contract for a period of one (1) year, at the same prices, terms and conditions.

Please let me know if this extension is approved and whether I have to make arrangements to secure a new ID Card.

I believe all insurance certificates Risk Management Department have are current.

Please confirm that you will continue to hold the "cash bond " as performance security until this extension will expire.

I appreciate the opportunity to continue providing the services required under this contract.

Sincerely,

Victor Elefante

**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

INTEROFFICE CORRESPONDENCE

DATE: September 11, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Extension of Contract No. 7473 – Furnish & Deliver Automatic-Delayed-Transition Transfer Switches - December 1, 2018 to November 30, 2019

GT Power Systems Inc., by way of the attached letter, has agreed to extend the subject contract for a second and final year.

Original contract award, October 2017, was in the total estimated amount of \$128,132.

As of June 1, 2018 (FY19), the Authority has placed orders for up to \$14,722, under the subject contract.

GT Power Systems Inc., holds no additional contracts with the Authority. In FY 18 they were paid \$17,828.

Contractor's performance on the above referenced contract is satisfactory.

We are requesting contract extension for the one year period as noted above.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
J. Pokorny, Deputy, CEO Operations
T. Kilcommons, Chief Engineer & Director
of Research & Engineering



Attachments: 1 memo & 1 tabulation

G.T. POWER SYSTEMS, INC

Generator Solutions



Sales - Service - Parts - Installation
24 hour emergency service

September 10, 2018

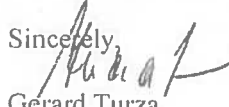
Suffolk County Water Authority
ATTN: Purchasing
PO Box 38
Oakdale, NY 11769-0901
Via email: Marlon.Torres@scwa.com

RE: Extension of Contract No.7473- Furnish and Delivery Automatic Delayed Transition
Transfer Switches

Dear Mr. Torres,

I am interested in accepting an extension of contract NO 7473 to furnish and deliver automatic delayed transition transfer switches until December 1, 2019 under the current provisions.

Sincerely,


Gerard Turza
President

PO Box 402, 56 Industrial Rd., Wainscot, New York 11975
Ph: 631-537-8890 Fax: 631-537-4143 Email: gtpwrsys@aol.com
WWW.GTPOWERSYSTEMSNY.COM

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

INTEROFFICE CORRESPONDENCE

DATE: September 11, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Extension of Contract No. 7479 – Furnishing & Delivery of Liquid Caustic Soda to SCWA Pump Stations located at Broadhollow Road and Smith Street5, East Farmingdale. January 1, 2019 to December 31, 2019

Univar USA Inc., by way of attached letter, has agreed to extend the subject contract for a second year representing the first of two (2) possible one-year extensions.

Original contract award, November 2017, was in the total estimated amount of \$30,600.

As of June 1, 2018 (FY19), approximately \$3,057 has been paid under the subject contract. In FY18, they were paid \$3,043.

Contractor's performance on the above referenced contract is satisfactory.

We are requesting contract extension for the one year period as noted above.

Reviewed by:

J. Szabo, Chief Executive Officer
M. Torres, Purchasing Director
J. Pokorny, Deputy, CEO Operations
M. O'Connell, Director of Production Control



Attachments: 1 memo, 1 tabulation

Univar USA Inc.
200 Dean Sievers Place
Morrisville, PA 19067-3700
USA

T 215-428-6990
F 215-337-6290
www.univar.com/us



August 27, 2018

Suffolk County Water Authority
3525 Sunrise Highway
Great River, NY 11739

RE: Option to Renew Contract No. 7479 - Furnish and Deliver Liquid Caustic Soda to SCWA Pump Stations located at Broadhollow Road and Smith Street, East Farmingdale

To Whom It May Concern:

Univar USA Inc. is pleased to have the option to extend the agreement resulting from 2017's bid for Caustic Soda 50%, and can do so at the following price:

CHEMICAL	PRODUCT #	BID PRICE	UNIT	MIN. ORDER REQUIREMENT? Y/N
CAUSTIC SODA 50% (bulk)	724206	\$3.06	Gallon	Yes 1,000 gallons

Univar will hold this pricing firm for the renewal term of January 1, 2019 – December 31, 2019.

All other information presented with/within the original bid/offer, including the agreed upon terms, conditions etc. remain the same.

Thank you for the opportunity to extend the current contract and to continue to supply Suffolk County Water Authority – We very much appreciate it.

Sincerely,

Victoria Meakim

Municipal Specialist
Univar USA Inc.
200 Dean Sievers Pl
Morrisville, PA 19067

Please Note: Seller shall indemnify Buyer for losses to the extent caused by Seller's negligence or breach of contract. Neither party is liable for incidental or consequential damages. Seller's liability is limited to the purchase price of the goods. SELLER MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Please Note: Where applicable, any State, Federal or other appropriate taxes and/or the California Mill Assessment will appear as separate line items on any invoices from Univar. If Univar's offer (pricing) was inclusive of these charges – they will be backed out of the "product" line item and shown as their own line item(s) at the time of billing.

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

INTEROFFICE CORRESPONDENCE

DATE: September 7, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Contract No. 7540 – Furnish and Deliver Automatic Blowoff Control Cable Assemblies

Opened: August 20, 2018 **Legal Notice:** Newsday
No. of Bids received: 2 **Published:** July 19, 2018
Documents Sent: 9

Low Bidder: Kelly & Hayes Electrical and Plumbing Supply of LI, Inc.
Amount: \$13,700

Low Responsive Bidder: Revco Lighting and Electrical Supply Inc.
Amount: \$13,760

Recommendation: Award to Low Responsive Bidder

Comments: The Authority received two (2) bids; ranged from \$13,700 to \$13,760. Although Kelly & Hayes Electrical and Plumbing Supply of LI, Inc., submitted the lowest bid, they did not submit the required Bid Deposit. In accordance with the Instruction to Bidder's failure to submit the required bid deposit constitutes grounds for rejection of their bid. As a result we seek the Boards approval to determine the bid submitted by Kelly & Hayes Electrical and Plumbing Supply of LI, Inc., as Non-Responsive and recommend award to the second low responsive bidder, Revco Lighting and Electrical Supply Inc.

Revco Lighting and Electrical Supply Inc., submitted a bid that is approximately 0.4% higher (+\$60.00) more than that of Kelly & Hayes Electrical and Plumbing Supply of LI, Inc. Bid price comparison to the previous contract (#7343, June 2016, amount: \$12,090) represents an approximate 13.8% increase (+\$1,670) in price.

The Engineering Department has reviewed the bid and recommends the award of this contract to Revco Lighting and Electrical Supply Inc.

Revco Lighting and Electrical Supply Inc., holds no current contracts, they held previous contracts with the Authority and have performed in a satisfactory manner.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
J. Pokorny, Deputy, CEO Operations
T. Kilcommons, Chief Engineer & Director
of Research & Engineering



Attachments: 1 memo & 1 tabulation
Original Proof of Publication
List of Firms Invited to Bid

Furnish and Deliver Automatic Blowoff Control Cable Assemblies

Bid Opening, 08/20/2018

Line Item Sh. Text Qty. in Base Unit	Material	Quot. : Bidder: Name: House No: Street: City: Region: Post Code: Item Text:	6000004814 100266 KELLY HAYES ELEC SUPPLY OF LI INC 66 SOUTHERN BLVD NESCONSET NY 11767 No Bid Deposit	6000004815 101730 REVCO LIGHTING & ELECTRICAL SUPPLY PO BOX 1539 SOUTHAMPTON NY 11969 Cashier's Check: \$688.00
00010 10832 CABLE, BLOWOFF 2 FT		Total Val.: Unit Price: Rank:	13,700.00 6,850.00 1	13,760.00 6,880.00 2
Total Quot.		Total Val.: Rank:	13,700.00 1	13,760.00 2

CERTIFICATION: I HEREBY certify that this is a correct Tabulation of Bids, received, 08/20/2018 for Furnish and Deliver Automatic Blowoff Control Cable Assemblies, 11:00 AM, prevailing time, Oakdale, New York



Marlon Torres, Purchasing Director

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

INTEROFFICE CORRESPONDENCE

DATE: September 4, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Contract No. 7544– Maintenance of Heating, Ventilation & Air Conditioning Equipment at SCWA Laboratory, Hauppauge and SCWA Administration Building, Oakdale.
November 1, 2018 to October 31, 2020

Opened: August 17, 2018 **Legal Notice:** Newsday
No. of Bids received: 4 **Published:** July 27, 2018
Documents Sent: 14

Low Bidder: Commercial Instrumentation Services
Bid Amount: \$234,800

Recommendation: Award to Low Bidder

Comments: As per the Instruction to Bidders, Bidders were instructed to provide pricing based on the following:

- Option A – Pricing based on one (1) year contract with three (3) one year options
- Option B – Pricing based on two (2) year contract with two (2) one year options

As a result of the preferred pricing received for Option B, we recommend to the Board awarding this contract under Option B for a two year fixed price.

Three (3) bids and one (1) "No Bid" were received under Option B; they ranged from \$234,800 to \$252,450. This will be the first time the Authority enters into contract with Commercial Instrumentation Services, references provided were contacted (Stony Brook University, Connetquot Central School District), responses were favorable. Contractor has all of the appropriate licenses to perform the work.

Total Bid Price comparison to the current contract (#7256, held by Emcor Services New York / New Jersey Inc., expires October 2018, amount: \$230,425) represents a 1.9% increase (+\$4,375), average unit price decreased by 15.9%, refer to unit price comparison document.

This contract is subject to NY State Prevailing Wage. Contractor is in compliance with this requirement.

Competition supports the low bid received.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
D. Mancuso, Chief Human Resources Officer
J. Rinker, Facilities Manager

✓
✓
✓
✓

Attachments: 1 memo & 1 tabulation
Original Proof of Publication
List of Firms Invited to Bid

**COMPARISON CONTRACT 7544 vs CONTRACT 7256
 MAINTENANCE OF HVAC EQUIPMENT AT THE WATER QUALITY LABORATORY & THE ADMINISTRATION BUILDING
 BID OPENING 8/17/18**

<u>Line Item</u>	<u>Service #</u>	<u>Description</u>	<u>20152</u>	<u>2018</u>	<u>Change in cost</u>	<u>Percentage increase / decrease</u>
10	3000610	HVAC LAB - MO, QUAR, S-A & ANN INSPECT	3,000.00	3,000.00	-	0.00%
20	3000610	HVAC LAB - MO, QUAR, S-A & ANN INSPECT	5,350.00	5,000.00	(350.00)	-6.54%
30	3000610	HVAC LAB - MO, QUAR, S-A & ANN INSPECT	6,000.00	5,100.00	(900.00)	-15.00%
40	3000610	HVAC LAB - MO, QUAR, S-A & ANN INSPECT	15,000.00	14,000.00	(1,000.00)	-6.67%
50	3000613	HVAC - LAB LABOR HOURS FOR REPAIRS	125.00	110.00	(15.00)	-12.00%
60	3000614	HVAC LAB PARTS & MATERIALS	1.22	1.20	(0.02)	-1.64%
70	3000615	HVAC R-22 REFRIGERANT	23.00	30.00	7.00	30.43%
80	3000612	HVAC LAB - VALVE SEALS/DIAPHRAGM REPLAC	2,300.00	2,250.00	(50.00)	-2.17%
90	3000609	HVAC LAB - EDDY CURRENT TUBE INSPECT	2,500.00	2,500.00	-	0.00%
100	3000607	HVAC ADMIN QUAR INSP & WATER TREATMENT	2,400.00	2,400.00	-	0.00%
110	3000608	HVAC ADMIN - LABOR HOURS FOR REPAIRS	125.00	110.00	(15.00)	-12.00%
120	3001752	HVAC ADMIN PARTS & MATERIALS	1.22	1.20	(0.02)	-1.64%
130	3001753	HVAC ADMIN R22 REFRIG.	23.00	30.00	7.00	30.43%
			36,848.44	34,532.40	(2,316.04)	
TOTAL PERCENTAGE INCREASE / DECREASE (on applicable items)						3.21%
AVERAGE PERCENTAGE INCREASE / DECREASE (on applicable items)						0.25%
ACTUAL DECREASE						(15.91)

Maintenance of HVAC Equipment at the Water Testing Laboratory and Administration

Bid Opening, 08/17/2018

Line Item	Quot. Item:	600004810	20	600004805	20	600004806	20	600004807	20
Service	Bidder:	105530		106677		100426		105967	
Sh. Text	Name:	FAIRWAY PLUMBING & HEATING INC.		COMMERCIAL INSTRUMENTATION SERVICES		SAV-MOR MECHANICAL INC		ENCOR SERVICES NEW YORK/ NEW JERSEY	
Qty	Address:	620 JOHNSON AVE #3		681-7 GRAND BLVD		30D HOWARD PL		5 DAKOTA DRIVE SUITE 111	
	City	BOHEMIA		DEER PARK		ROCKONKOMA		LAKE SUCCESS	
	State	NY		NY		NY		NY	
	Zip Code	11716		11729		11779		11042	
	Item Text:	Bond		Bond		Bond		Bond	
	Description:	OPTION II --TERM 2 YEARS		OPTION II --TERM 2 YEARS		OPTION II --TERM 2 YEARS		OPTION II --TERM 2 YEARS	
10	Total Val.:								
3000610	Unit Price:	No Bid		36,000.00		25,020.00		35,400.00	
HVAC LAB - MO, QUAR, S-A & ANN INSPECT	Rank:			3,000.00		2,085.00		2,950.00	
12 ½									
20	Total Val.:								
3000610	Unit Price:	No Bid		20,000.00		25,340.00		21,200.00	
HVAC LAB - MO, QUAR, S-A & ANN INSPECT	Rank:			5,000.00		6,335.00		5,300.00	
4 ¾									
30	Total Val.:								
3000610	Unit Price:	No Bid		10,200.00		10,900.00		11,600.00	
HVAC LAB - MO, QUAR, S-A & ANN INSPECT	Rank:			5,100.00		5,450.00		5,800.00	
2 ¾									
40	Total Val.:								
3000610	Unit Price:	No Bid		14,000.00		10,900.00		15,000.00	
HVAC LAB - MO, QUAR, S-A & ANN INSPECT	Rank:			14,000.00		10,900.00		15,000.00	
1 ¾									
50	Total Val.:								
3000613	Unit Price:	No Bid		44,000.00		50,000.00		54,000.00	
HVAC - LAB LABOR HOURS FOR REPAIRS	Rank:			110.00		125.00		135.00	
400.0 HR									
60	Total Val.:								
3000614	Unit Price:	No Bid		48,000.00		50,000.00		48,000.00	
HVAC LAB PARTS & MATERIALS	Rank:			1.20		1.25		1.20	
40,000 ¾									
70	Total Val.:								
3000615	Unit Price:	No Bid		750.00		750.00		500.00	
HVAC R-22 REFRIGERANT	Rank:			30.00		30.00		20.00	
25 LB									
80	Total Val.:								
3000612	Unit Price:	No Bid		2,250.00		2,200.00		2,250.00	
HVAC LAB - VALVE SEALS/DIAPHRAGM REPLAC	Rank:			2,250.00		2,200.00		2,250.00	
1 EA									
90	Total Val.:								
3000609	Unit Price:	No Bid		2,350.00		2,350.00		2,500.00	
HVAC LAB - EDDY CURRENT TUBE INSPECT	Rank:			2,350.00		2,350.00		2,500.00	
1 EA									
100	Total Val.:								
3000607	Unit Price:	No Bid		9,600.00		8,000.00		10,000.00	
HVAC ADMIN QUAR INSP & WATER TREATMENT	Rank:			2,400.00		2,000.00		2,500.00	

Maintenance of HVAC Equipment at the Water Testing Laboratory and Administration

Bid Opening, 08/17/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City State Zip Code Item Text: Description:	6000004810 20 105530 FAIRWAY PLUMBING & HEATING INC. 620 JOHNSON AVE #3 BOHEMIA NY 11716 Bond OPTION II --TERM 2 YEARS	6000004805 20 106677 COMMERCIAL INSTRUMENTATION SERVICES 681-7 GRAND BLVD DEER PARK NY 11729 Bond OPTION II --TERM 2 YEARS	6000004806 20 100426 SNV-MOR MECHANICAL INC 300 HOWARD PL ROIKOKHONA NY 11779 Bond OPTION II --TERM 2 YEARS	6000004807 20 105967 ENCOR SERVICES NEW YORK/ NEW JERSEY 5 DAKOTA DRIVE SUITE 111 LAKE SUCCESS NY 11042 Bond OPTION II --TERM 2 YEARS
4 EA	Rank:	2	1	3	
110 3000608 HVAC ADMIN - LABOR HOURS FOR REPAIRS 200.0 HR	Total Val.: Unit Price: Rank:	22,000.00 110.00 1	25,000.00 125.00 2	27,000.00 135.00 3	
120 3001752 HVAC ADMIN PARTS & MATERIALS 20,000 \$	Total Val.: Unit Price: Rank:	24,000.00 1.20 1	25,000.00 1.25 3	24,000.00 1.20 1	
130 3001753 HVAC ADMIN R22 REFRIG. 50 LB	Total Val.: Unit Price: Rank:	1,500.00 30.00 2	1,500.00 30.00 2	1,000.00 20.00 1	
Total Services	Val.: Rank:	234,800.00 168,200.00 1	236,960.00 48,470.00 2	252,450.00 73,500.00 3	

CERTIFICATION: I HEREBY certify that this is a correct Tabulation of Bids, received, 08/17/2018 for OPTION II --TERM 2 YEARS, 11:00 AM, prevailing time, Oakdale, New York


Marlon Torres, Purchasing Director

Maintenance of HVAC Equipment at the Water Testing Laboratory and Administration

Bid Opening, 08/17/2018

Line Item	Quot. Item:	6000004810	6000004805	6000004806	6000004807
Service	Bidder:	105530	106677	100426	105967
Sh. Text	Name:	FAIRWAY PLUMBING & HEATING INC.	COMMERCIAL INSTRUMENTATION SERVICES	SAV-HOR MECHANICAL INC	ENGOR SERVICES NEW YORK/ NEW JERSEY
Qty	Address:	620 JOHNSON AVE #3	681-7 GRAND BLVD	300 HOWARD PL	5 DAKOTA DRIVE SUITE 111
	City	BOHEMIA	DEER PARK	ROHOKOHONA	LAKE SUCCESS
	State	NY	NY	NY	NY
	Zip Code	11716	11729	11779	11042
	Item Text:	Bond	Bond	Bond	Bond
	Description:	OPTION I - TERM 1 YEAR	OPTION I - TERM 1 YEAR	OPTION I - TERM 1 YEAR	OPTION I - TERM 1 YEAR
10	Total Val.:	62,400.00	36,000.00	25,020.00	35,400.00
3000610	Unit Price:	5,200.00	3,000.00	2,085.00	2,950.00
HVAC LAB - MO, QUAR, S-A & ANH INSPECT	Rank:	4	3	1	2
12 5					
20	Total Val.:	19,200.00	20,000.00	25,340.00	21,200.00
3000610	Unit Price:	4,800.00	5,000.00	6,335.00	5,300.00
HVAC LAB - MO, QUAR, S-A & ANH INSPECT	Rank:	1	2	4	3
4 5					
30	Total Val.:	16,000.00	10,200.00	10,900.00	11,600.00
3000610	Unit Price:	8,000.00	5,100.00	5,450.00	5,800.00
HVAC LAB - MO, QUAR, S-A & ANH INSPECT	Rank:	4	1	2	3
2 5					
40	Total Val.:	8,000.00	14,000.00	10,900.00	15,000.00
3000610	Unit Price:	8,000.00	14,000.00	10,900.00	15,000.00
HVAC LAB - MO, QUAR, S-A & ANH INSPECT	Rank:	1	3	2	4
1 5					
50	Total Val.:	106,000.00	44,000.00	50,000.00	54,000.00
3000613	Unit Price:	265.00	110.00	125.00	135.00
HVAC - LAB LABOR HOURS FOR REPAIRS	Rank:	4	1	2	3
400.0 HR					
60	Total Val.:	50,000.00	48,000.00	50,000.00	48,000.00
3000614	Unit Price:	1.25	1.20	1.25	1.20
HVAC LAB PARTS & MATERIALS	Rank:	3	1	3	1
40,000 5					
70	Total Val.:	2,375.00	750.00	750.00	500.00
3000615	Unit Price:	95.00	30.00	30.00	20.00
HVAC R-22 REFRIGERANT	Rank:	4	2	2	1
25 LB					
80	Total Val.:	1,650.00	2,250.00	2,200.00	2,250.00
3000612	Unit Price:	1,650.00	2,250.00	2,200.00	2,250.00
HVAC LAB - VALVE SEALS/DIAPHRAGM REPLAC	Rank:	1	3	2	3
1 EA					
90	Total Val.:	4,500.00	2,500.00	2,350.00	2,500.00
3000609	Unit Price:	4,500.00	2,500.00	2,350.00	2,500.00
HVAC LAB - EDDY CURRENT TUBE INSPECT	Rank:	4	2	1	2
1 EA					
100	Total Val.:	4,200.00	9,600.00	8,000.00	10,000.00
3000607	Unit Price:	1,050.00	2,400.00	2,000.00	2,500.00
HVAC ADMIN QUAR INSP & WATER TREATMENT	Rank:				

Maintenance of HVAC Equipment at the Water Testing Laboratory and Administration

Bid Opening, 08/17/2018

Line Item Service Sh. Text Qty	Quot. Items: Bidder: Name: Address: City: State: Zip Code Item Text: Description:	6000004810 10 105530 FAIRWAY PLUMBING & HEATING INC. 620 JOHNSON AVE #3 BOHEMIA NY 11716 Bond OPTION I - TERM 1 YEAR	6000004805 10 106677 COMMERCIAL INSTRUMENTATION SERVICES 681-7 GRAND BLVD DEER PARK NY 11729 Bond OPTION I - TERM 1 YEAR	6000004806 10 100426 SAV-HOR MECHANICAL INC 300 HOWARD PL ROHROROKONA NY 11779 Bond OPTION I - TERM 1 YEAR	6000004807 10 105967 EMCOR SERVICES NEW YORK/ NEW JERSEY 5 DAKOTA DRIVE SUITE 111 LAKE SUCCESS NY 11042 Bond OPTION I - TERM 1 YEAR
4 EA	Rank: 1	Rank: 3	Rank: 2	Rank: 4	
110 3000608 HVAC ADMIN - LABOR HOURS FOR REPAIRS 200.0 HR	Total Val.: 53,000.00 Unit Price: 265.00 Rank: 4	22,000.00 110.00 1	25,000.00 125.00 2	27,000.00 135.00 3	
120 3001752 HVAC ADMIN PARTS & MATERIALS 20,000 \$	Total Val.: 25,000.00 Unit Price: 1.25 Rank: 3	24,000.00 1.20 1	25,000.00 1.25 3	24,000.00 1.20 1	
130 3001753 HVAC ADMIN R22 REFRIG. 50 LB	Total Val.: 4,750.00 Unit Price: 95.00 Rank: 4	1,500.00 30.00 2	1,500.00 30.00 2	1,000.00 20.00 1	
Total Services	Val.: 357,075.00 Rank: 4	234,800.00 148,200.00 1	236,960.00 27,370.00 2	252,450.00 73,500.00 3	

CERTIFICATION: I HEREBY certify that this is a correct Tabulation of Bids, received, 08/17/2018 for OPTION I - TERM 1 YEAR, 1:00 PM, prevailing time, Oakdale, New York


Marion Torres, Purchasing Director

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

INTEROFFICE CORRESPONDENCE

DATE: September 4, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Contract No. 7545 – Valve Box Maintenance – November 1, 2018 to October 31, 2019

Opened: August 17, 2018

Legal Notice: Newsday

No. of Bids received: 3

Published: July 27, 2018

Documents Sent: 6

Low Bidder: Roadwork Construction Corp.
Bid Amount: \$518,280

Recommendation: Award to Low Bidder

Comments: Roadwork Construction Corp., currently holds contract#7244 (Valve Box Maintenance, expires October 2018, amount: \$199,807). Unit price comparison against contract# 7244 reflects a 15.2% increase, refer to attached bid analysis. Overall aggregate total bid amount has more than doubled, this increase is due to additional quantities being requested, specifically line item# 1 which increased from a previous quantity of 1,500 to 3,500 under the new proposed contract.

Roadwork Construction Corp., currently holds two (2) additional contracts (#7413[Partial] – General Construction of Water Mains, Large Services and Appurtenances – Group I [South Shore and Eastern Suffolk], amount: \$5,656.434 expires January 2019; #7528 – Installation of Water Mains at Various Sites in Wainscott, amount: \$5,579,032).

In fiscal year ending 5/31/18 (FY18), they were paid \$6,465,472.

Contractor's performance on the above referenced contracts is satisfactory.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
J. Pokorny, Deputy, CEO Operations
P. Kuzman, Director of Construction Maintenance



Attachments: 1 memo & 1 tabulation
Original Proof of Publication
List of Firms Invited to Bid

Valve Box Maintenance

Bid Opening, 08/17/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City State Zip Code Item Text: Description:	6000004811 10 101622 ROADWORK CONSTRUCTION CORP 16 STARBOARD RD HAMPTON BAYS NY 11946-1650 BID BOND Valve Box Maint	6000004813 10 106856 The Sequel Group, LLC 1546 Locust Avenue Bohemia NY 11716 Cashier's Check \$26,784 Valve Box Maint	6000004812 10 106855 Valvetek Utility Services, Inc. 16 Interhaven Avenue North Plainfield NJ 07060 BID BOND Valve Box Maint
10 3001581 1-Locate and key 3,500 EA	Total Val.: Unit Price: Rank: 1	176,400.00 50.40	181,440.00 51.84	218,960.00 62.56
20 3001582 2-Raise slider type valve box 50 EA	Total Val.: Unit Price: Rank: 1	4,900.00 98.00	7,200.00 144.00	8,435.00 168.70
30 3001583 3-Covert to slider type valve box 1,200 EA	Total Val.: Unit Price: Rank: 1	336,000.00 280.00	345,600.00 288.00	578,400.00 482.00
40 3001584 4-Break out asphalt around box 10 EA	Total Val.: Unit Price: Rank: 1	980.00 98.00	1,440.00 144.00	1,687.00 168.70
Total Services	Val.: Rank: 1	518,280.00 518,280.00	535,680.00 0.00	807,482.00 0.00

CERTIFICATION: I HEREBY certify that this is a correct tabulation of Bids, received, 08/17/2018
 for Valve Box Maintenance.  AM, prevailing time, Oakdale, New York

Marlon Torres, Purchasing Director

COMPARISON CONTRACT 7545 VS CONTRACT 7244
 VALVE BOX MAINTENANCE AT VARIOUS LOCATION IN SUFFOLK COUNTY
 BID OPENING 8/17/2018

<u>Line Item</u>	<u>Description</u>	<u>Material #</u>	<u>2015</u>	<u>2018</u>	<u>Change in cost</u>	<u>Percentage increase / decrease</u>
10	1-Locate and key	3001581	43.70	50.40	6.70	15.33%
20	2-Raise slider type valve box	3001582	85.05	98.00	12.95	15.23%
30	3-Cover to slider type valve box	3001583	243.00	280.00	37.00	15.23%
40	4-Break out asphalt around box	3001584	85.05	98.00	12.95	15.23%
			456.80	526.40	69.60	
			TOTAL PERCENTAGE INCREASE / DECREASE (on applicable items)			61.01%
			AVERAGE PERCENTAGE INCREASE / DECREASE (on applicable items)			15.25%
			ACTUAL INCREASE			15%

✓

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

INTEROFFICE CORRESPONDENCE

DATE: September 4, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Contract No. 7547 – Furnish & Deliver of Sodium Hypochlorite Solution
November 1, 2018 to October 31, 2020

Opened: August 21, 2018

Legal Notice: Newsday

No. of Bids received: 2

Published: July 31, 2018

Documents Sent: 4

Bidder: New Haven Chlor-Alkali LLC
Bid amount: \$787,650 (Annual)

Recommendation: Award to Low Bidder

Comments: This is a two (2) year contract. New Haven Chlor-Alkali LLC., Inc. has successfully delivered sodium hypochlorite solution under a previous contract (#6999, under the name of H. Krevit, expired October 2015).

Bid price comparison to the current contract (#7253, expires October 2018, amount: \$593,100) reflects an approximate 32.8% increase (+\$194,450). Increase is due to higher cost of raw materials and production. Unit price comparison against contract# 7253 reflects an average 4.17% increase, refer to attached bid analysis.

New Haven Chlor-Alkali LLC., Inc. holds one (1) current contract (#7390 - Furnish & Deliver of Liquid Caustic Soda, expires December 2018, amount: \$25,800) In fiscal year ending 5/31/2018 (FY18) they were paid \$18,851.

Contractor's performance on the above referenced contracts is satisfactory.

Reviewed by:

Jeff. Szabo, Chief Executive Officer
M.Torres, Purchasing Director
J. Pokorny, Deputy CEO Operations
M.Oconnell, Director Production Control

✓
✓
✓
✓

Attachments: 1 memo & tabulation
Original Proof of Publication
List of Firms Invited to Bid

**COMPARISON CONTRACT 7547 vs CONTRACT 7253
FURNISHING & DELIVERY SODIUM HYPOCHLORITE SOLUTION
BID OPENING 8/21/18**

<u>Item No.</u>	<u>Location</u>	<u>Unit Bid Price Per Gallon 2015</u>	<u>Unit Bid Price Per Gallon 2018</u>	<u>Change in cost</u>	<u>Percentage increase / decrease</u>
1	Fifth Avenue Bay Shore	0.64	0.88	0.24	38.36%
2	Old Riverhead Road Westhampton Beach	0.64	0.89	0.25	39.94%
3	Bridgehampton Road East Hampton	1.50	0.89	(0.61)	-40.67%
4	Coram Center Rt. 112 Coram	0.64	0.89	0.25	39.94%
		3.41	3.55	0.14	

TOTAL PERCENTAGE INCREASE / DECREASE (on applicable items) 77.57%
AVERAGE PERCENTAGE INCREASE / DECREASE (on applicable items) 19.39%

Actual Increase 4.17%

F&D Sodium Hypochlorite Solution to Various Pumping Stations

Bid Opening, 08/21/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City State Zip Code Item Text: Description:	6000004821 10 106860 New Haven Chlor-Alkali LLC 73 Welton St New Haven CT 06511 Cashier's Check \$39,338.25 Locations	6000004820 10 102644 KUEHNE CHEMICAL CO., INC. 86 NORTH HACKENSACK AVENUE SOUTH KEARNY NJ 07032 BID BOND Locations
10 Fifth Avenue - Bay Shore 550,000 GA	Total Val.: 489,500.00 Unit Price: 0.89 Rank: 2		484,000.00 0.88 1
20 Old Riverhead Road - Westhampton Beach 150,000 GA	Total Val.: 133,500.00 Unit Price: 0.89 Rank: 1		225,000.00 1.50 2
30 Bridgehampton Road - East Hampton 35,000 GA	Total Val.: 31,150.00 Unit Price: 0.89 Rank: 1		70,000.00 2.00 2
40 Coram Center Rt. 112 - Coram 150,000 GA	Total Val.: 133,500.00 Unit Price: 0.89 Rank: 1		135,000.00 0.90 2
Total Services	Val.: 787,650.00 Rank: 298,150.00		914,000.00 484,000.00

CERTIFICATION: I HEREBY certify that this is a correct Tabulation of Bids, received, 08/21/2018 for Locations, 11:00 AM prevailing time, Oakdale, New York


Marlon Torres, Purchasing Director

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York
INTEROFFICE CORRESPONDENCE

DATE: September 13, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Contract No. 7548 – Construct Two (2) 20" x 10" Diameter Wells (Nos. 1A & 2A)
Approximately 375 Feet deep, Nichols Road Well Field, Islandia, Town of Islip, NY

Opened:	<u>August 30, 2018</u>	Legal Notice:	<u>Newsday</u>
No. of Bids received:	<u>3</u>	Published:	<u>August 3, 2018</u>
Low Bidder:	Layne Christensen Co	Documents Sent:	<u>7</u>
	Bid Amount: \$599,400		

Recommendation: Award to Low Bidder

Comments: Three (3) bids were received; ranged from \$599,400 to 752,950.

The Authority sent out Bid Packages to seven (7) prospective bidders in addition to posting the solicitation on Newsday and the Empire State Purchasing Group's Website. As a result the Authority received three (3) bids.

Bid price submitted was compared to equivalent work done under contract# 7459 (Drilling of Wells & Test Borings; Zone A -West of William Floyd Parkway). Although unit pricing submitted under Contract# 7459 does not account for site-specific drilling conditions, penalties for delays, or any recent price increases for materials. As anticipated, the price for equivalent work under Contract# 7459 is significantly cheaper than the bid price submitted under Contract# 7548.

In addition a comparison of the Bid against contract# 7458, with quantities modified, reflects an increase of 57.2% (+217,990). Contractor holding the test boring contract was asked if they wished to install these wells under their contract (both parties must agree on production wells under the terms of the contract) and they declined.

Based on the above, it is the recommendation of the Engineering Department that this contract be awarded to Layne Christensen Co., the significant increase is reasonable and is reflective of current market conditions within the well industry considering there are less well drillers available.

In fiscal year ending 5/31/18 (FY18), Layne Christensen Corp., was paid \$831,653 (held contracts: #7365 – Construction of a 20" X 10" Diameter Replacement Well (No. 3A), 620 Feet Deep, Circle Drive Well Field, Wyandanch, awarded July 2016, amount: \$325,575; #7391 – Construction of a 20" X 10" Diameter Well (No. 5), Approximately 500 Feet Deep, Daniel Webster Drive Well Field, South Setauket, awarded November 2016, amount: \$419,640; #7368 – Construction of a 20" X 10" Diameter Well (No. 4), 840 Feet Deep, Church Street Well Field, Bohemia, awarded August 2016, amount: \$366,850; #7408 – Construction of a 20" X 10" Diameter Well (No. 4), 780 Feet Deep, Great Neck Road Well Field, North Amityville, awarded December 2016, amount: \$399,200; #7469P – Construction of a 20" X 10" Diameter Well (No. 2A), Approximately 535 Feet Deep, Sherry Drive Well Field, Setauket, Town of Brookhaven, awarded September 2017, amount: \$425,925).

Layne Christensen Co., performance on the above referenced contracts has been satisfactory.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
J. Pokorny, Deputy, CEO Operations
P. Kuzman, Director of Construction Maintenance



Attachments: 1 memo & 1 tabulation
Original Proof of Publication
List of Firms Invited to Bid

Nicolls Rd. wells nos. 1A and 2A

Constructed under Contract No.

7459

Item #	Description	Quantity	Unit Desc.	Unit Price	\$\$\$
1	Mob and Demob of clearing and grading eqpt.	1	L.S.	\$ 1,000.00	\$ 1,000.00
2	Clearing and grading of drill site	200	Hours	\$ 140.00	\$ 28,000.00
15	Obtaining cored samples	15	Each	\$ 60.00	\$ 900.00
19	Transport of Water Samples to laboratory	100	Miles	\$ 0.50	\$ 50.00
20	Mob. And Demob. Of Production well rig	2	Each	\$ 45,000.00	\$ 90,000.00
21	Production well drilling - reverse rotary method	770	L.F.	\$ 100.00	\$ 77,000.00
23	Well casing: 20" Dia. Schedule 20	600	L.F.	\$ 85.00	\$ 51,000.00
27	Riser pipe: 10" dia. Schedule 40	140	L.F.	\$ 35.00	\$ 4,900.00
31	Stainless Steel well screen: 10" ID	130	L.F.	\$ 200.00	\$ 26,000.00
44	Steel tailpipe: 10" Schedule 40	6	L.F.	\$ 160.00	\$ 960.00
46	Gravel Pack	1200	Bags	\$ 25.00	\$ 30,000.00
47	Grout Seal	24	C.Y.	\$ 350.00	\$ 8,400.00
50	Development Pumping: 1000 gpm or greater	350	Hour	\$ 140.00	\$ 49,000.00
51	Well development by surgng	1	Each	\$ 500.00	\$ 500.00
52	Simultaneous surging and pumping	1	Each	\$ 4,000.00	\$ 4,000.00
53	Air impulse technology	3	Days	\$ 2,500.00	\$ 7,500.00
55	Chemical Treatment for Turbidity	1	Each	\$ 2,000.00	\$ 2,000.00
57	Color Video log of well	2	Each	\$ 100.00	\$ 200.00

TOTAL **\$ 381,410.00**

Bid Price under Contract No. 7548 \$ 599,400.00

Difference \$ 217,990.00
57.2%

Construct (2) 20"x10"-Dia. Wells Nos. 1A and 2A at Nichols Road, Town of Islip

Bid Opening, 08/30/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City State Zip Code Item Text: Description:	6000004823 10 102523 LAYNE CHRISTENSEN CO PO BOX 677801 DALLAS TX 75267-7801 Bid Bond 7548 - Nichols Rd. Wells Nos. 1A & 2A	6000004824 10 100039 EAGLE CONTROL CORP 23 OLD DOCK RD YAPHANK NY 11980 Bid Bond 7548 - Nichols Rd. Wells Nos. 1A & 2A	6000004825 10 102571 A.C. SCHULTES INC 664 SOUTH EVERGREEN AVE WOODBURY HEIGHTS NJ 08097 Bid Bond 7548 - Nichols Rd. Wells Nos. 1A & 2A
15 EA	Rank:	3	1	1
110	Total Val.:	2,000.00	2,000.00	3,000.00
Chemical Treatment	Unit Price:	2,000.00	2,000.00	3,000.00
1 EA	Rank:	1	1	3
Total Services	Val.:	599,400.00	687,950.00	752,950.00
	Rank:	1	2	3
				8,750.00

CERTIFICATION: I HEREBY certify that this is a correct Tabulation of Bids, received, 08/30/2018 for 7548 - Nichols Rd. Wells Nos. 1A & 2A, 11:00 AM, prevailing time, Oakdale, New York


Karlon Torres, Purchasing Director

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

INTEROFFICE CORRESPONDENCE

DATE: September 4, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Contract No. 7549 – Construction of a 20" X 10" Diameter Well (No. 2A), Approximately 540 Feet Deep, Jayne Boulevard Well Field, Terryville, Town of Brookhaven, NY

Opened:	<u>August 30, 2018</u>	Legal Notice:	<u>Newsday</u>
No. of Bids received:	<u>2</u>	Published:	<u>August 3, 2018</u>
Low Bidder:	Layne Christensen Co.	Documents Sent:	<u>7</u>
	Bid Amount: \$386,150		

Recommendation: Award to Low Bidder

Comments: The Bid document was sent to seven (7) prospective bidders. As a result the Authority received two (2) bids from well drilling firms. Bids ranged from \$386,150 to \$613,600 (A.C. Schultes Inc.).

Bid comparison to previous contract with equivalent work, contract# 7391 (Construction of a 20" X 10" Diameter Well (No. 5), 500 Feet Deep, Daniel Webster Well Field, South Setauket), with quantities revised for an accurate comparison reflects a 4.5% increase (+\$16,750); refer to attached bid comparison document.

The Engineering Department has reviewed the bid and recommends the award of this contract to Layne Christensen Corp.

In fiscal year ending 5/31/18 (FY18), Layne Christensen Corp., was paid \$831,653 (held contracts: #7365 – Construction of a 20" X 10" Diameter Replacement Well (No. 3A), 620 Feet Deep, Circle Drive Well Field, Wyandanch, awarded July 2016, amount: \$325,575; #7391 – Construction of a 20" X 10" Diameter Well (No. 5), Approximately 500 Feet Deep, Daniel Webster Drive Well Field, South Setauket, awarded November 2016, amount: \$419,640; #7368 – Construction of a 20" X 10" Diameter Well (No. 4), 840 Feet Deep, Church Street Well Field, Bohemia, awarded August 2016, amount: \$366,850; #7408 – Construction of a 20" X 10" Diameter Well (No. 4), 780 Feet Deep, Great Neck Road Well Field, North Amityville, awarded December 2016, amount: \$399,200; #7469P – Construction of a 20" X 10" Diameter Well (No. 2A), Approximately 535 Feet Deep, Sherry Drive Well Field, Setauket, Town of Brookhaven, awarded September 2017, amount: \$425,925).

Layne Christensen Corp., performance on the above referenced contracts has been satisfactory.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
J. Pokorny, Deputy, CEO Operations
T. Kilcommons, Chief Engineer & Director
of Research & Engineering



Attachments: 1 memo & 1 tabulation
Original Proof of Publication
List of Firms Invited to Bid

BID COMPARISON: Jayne blvd. well no. 2A
CONTRACT NO. 7549

BID PRICE = \$386,150.00

COMPARE W/CONTRACT NO. 7391 Daniel Webster Drive well no. 5

ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
1	Permanent well to depth 500 ft.	1	Each	\$300,000.00	\$300,000.00
2	Clearing and grading of drillsite	1	L. S.	\$50,000.00	\$50,000.00
3	Add'l drilling and backfilling	10	L. F.	\$10.00	\$100.00
4	Change in Depth of Perm. Well	10	L. F.	\$10.00	\$100.00
5	Change in Qty. of well screen	10	L. F.	\$50.00	\$500.00
6	Well development by surging	1	Each	\$500.00	\$500.00
7	Simult. Surging and pumping	1	Each	\$6,000.00	\$6,000.00
8	Air impulse	3	Each	\$1,500.00	\$4,500.00
9	Added or deducted test pumping	50	Hour	\$50.00	\$2,500.00
10	Obtaining cored samples	12	Each	\$150.00	\$1,800.00
11	Chemical Treatment for turbidity	1	Each	\$3,000.00	\$3,000.00

BID PRICE FOR Daniel Webster Drive well no. 5

\$369,000.00

COMPARE TO Jayne blvd. well no. 2A

Increase drilling by 40 feet	40	\$10.00	\$400.00
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EQUIVALENT PRICE FOR Daniel Webster Drive well no. 5 **\$369,400.00**

ACTUAL BID PRICE: CONTRACT NO. 7549 Jayne blvd. well no. 2A **\$386,150.00**

DIFFERENCE **\$16,750.00**
4.5%

Construct a 20"x10"-Dia. Well No. 2A at Jayne Blvd., Town of Brookhaven

Bid Opening, 08/30/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City State Zip Code Item Text: Description:	6000004826 10 102523 LAYNE CHRISTENSEN CO PO BOX 677801 DALLAS TX 75267-7801 Bid Bond 7549 - Jayne Blvd. Well No. 2A	6000004827 10 102571 A.C. SCHULTES INC 664 SOUTH EVERGREEN AVE WOODBURY HEIGHTS NJ 08097 Bid Bond 7549 - Jayne Blvd. Well No. 2A
10 Permanent 20"x10"-Dia. Well to 540' 1 EA	Total Val.: Unit Price: Rank:	343,800.00 343,800.00 1	579,250.00 579,250.00 2
20 Clearing and Grading of Drill Site 1 EA	Total Val.: Unit Price: Rank:	23,000.00 23,000.00 2	8,000.00 8,000.00 1
30 Additional Drilling and Backfilling 10 FT	Total Val.: Unit Price: Rank:	1,200.00 120.00 2	500.00 50.00 1
40 Change in Depth of Permanent Well 10 FT	Total Val.: Unit Price: Rank:	850.00 85.00 2	800.00 80.00 1
50 Change in Quantity of Well Screen 10 FT	Total Val.: Unit Price: Rank:	2,500.00 250.00 2	1,300.00 130.00 1
60 Well Development by Surging 1 EA	Total Val.: Unit Price: Rank:	500.00 500.00 1	2,000.00 2,000.00 2
70 Well Dev. Simultaneous Surging/Pumping 1 EA	Total Val.: Unit Price: Rank:	6,000.00 6,000.00 2	4,000.00 4,000.00 1
80 Well Dev. by Air Impulse Technology 3 DAY	Total Val.: Unit Price: Rank:	600.00 200.00 1	12,000.00 4,000.00 2
90			

Construct a 20"x10"-Dia. Well No. 2A at Jayne Blvd., Town of Brookhaven

Bid Opening, 08/30/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City State zip Code Item Text: Description:	6000004826 102523 LAYNE CHRISTENSEN CO PO BOX 677801 DALLAS TX 75267-7801 Bid Bond 7549 - Jayne Blvd. Well No. 2A	10 A.C. SCHULTES INC 664 SOUTH EVERGREEN AVE WOODBURY HEIGHTS NJ 08097 Bid Bond 7549 - Jayne Blvd. Well No. 2A	6000004827 102571 A.C. SCHULTES INC 664 SOUTH EVERGREEN AVE WOODBURY HEIGHTS NJ 08097 Bid Bond 7549 - Jayne Blvd. Well No. 2A
Added or Deducted Test Pumping 50.0 HR	Total Val.: Unit Price: Rank:	4,500.00 90.00 2	3,000.00 60.00 1	
100 Obtaining Cored Samples, Etc. 15 EA	Total Val.: Unit Price: Rank:	1,200.00 80.00 2	750.00 50.00 1	
110 Chemical Treatment 1 EA	Total Val.: Unit Price: Rank:	2,000.00 2,000.00 1	2,000.00 2,000.00 1	
Total Services	Val.: Rank:	386,150.00 346,900.00 1	613,600.00 20,350.00 2	

CERTIFICATION: I HEREBY certify that this is a correct Tabulation of Bids, received, 08/30/2018
 for 7549 - Jayne Blvd. Well No. 2A, 11:00 AM, prevailing time, Oakdale, New York


 Marlon Torres, Purchasing Director

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

INTEROFFICE CORRESPONDENCE

DATE: September 13, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Contract No. 7550 – Drilling of Wells & Test Borings; Zone B (East of William Floyd Parkway)
October 1, 2018 to September 30, 2019

Opened: September 5, 2018

Legal Notice: Newsday

No. of Bids received: 1

Published: August 1, 2018

Documents Sent: 7

Low Bidder: Peconic Well & Pump Inc.
Bid Amount: \$1,289,470

Recommendation: Award to Single Bidder.

Comments: The Authority sent out Bid Packages to seven (7) prospective bidders in addition to posting the solicitation on Newsday and the Empire State Purchasing Group's Website. As a result the Authority received a single bid.

The Authority contacted the bidders that were solicited, four firms responded. The reasons they did not submit a bid were their inability to provide these services at this time. In addition there are less well drillers available within the market.

Bid price comparison to a similar contract (#7369 – Drilling of Wells and Test Borings, Zone B, Peconic Well & Pump Co.) reflects an increase of \$291,650 or 29.2%, refer to cost comparison document. We believe an increase of this magnitude is reasonable and reflective of current market conditions and declining competition. In addition, this contractor is based in Hampton Bays, and is most knowledgeable of conditions to be encountered under this contract.

It is the recommendation of the Engineering Department that this contract be awarded to Peconic Well & Pump Co.

Peconic Well & Pump Co., holds no additional current contracts. In fiscal year ending May 31, 2018 (FY 18) they were paid \$377,086 under contract# 7369 which expires at the end of September 2018.

Contractor's performance on the above past contract has been satisfactory.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
J. Pokorny, Deputy, CEO Operations
T. Kilcommons, Chief Engineer & Director
of Research & Engineering

Attachments: 1 memo & 1 tabulation
Original Proof of Publication
List of Firms Invited to Bid

Contract No. 7369 Prices and quantities

Item #	Description	Quantity	Unit Desc.	Unit Price	\$\$\$
1	Mob and Demob of clearing and grading eqpt.	5	L.S.	\$ 1,000.00	\$ 5,000.00
2	Clearing and grading of drill site	100	Hours	\$ 200.00	\$ 20,000.00
3	Mob and Demob of supply well rig and eqpt.	2	Each	\$ 5,000.00	\$ 10,000.00
4	Drilling of supply wells	600	L.F.	\$ 20.00	\$ 12,000.00
5	Mob and Demob of Mon. well rig and eqpt.(0 - 150')	3	Each	\$ 3,000.00	\$ 9,000.00
6	Mob and Demob of Mon. well rig and eqpt.(150' +)	2	Each	\$ 3,000.00	\$ 6,000.00
7	Monitor well drilling (150 ft. +)	400	L.F.	\$ 20.00	\$ 8,000.00
8	Monitor well drilling (0 to 150 ft.)	600	L.F.	\$ 20.00	\$ 12,000.00
9	F and I PVC monitor well casing	800	L.F.	\$ 7.00	\$ 5,600.00
10	F and I PVC monitor well screen	600	L.F.	\$ 7.00	\$ 4,200.00
11	Test pump monitor well	200	Hour	\$ 80.00	\$ 16,000.00
12	Mob. And Demob. Of Rev. Rotary TB rig	3	Each	\$ 60,000.00	\$ 180,000.00
13	Test drilling by rev. rotary method	2000	L.F.	\$ 50.00	\$ 100,000.00
14	Obtaining cored samples	120	Each	\$ 50.00	\$ 6,000.00
15	Prep., placing and rem'l of mon. well screen	12	Each	\$ 6,000.00	\$ 72,000.00
16	Added or Deducted Dev. Pumping	80	Hour	\$ 10.00	\$ 800.00
17	Test pumping selected screen areas	480	Hour	\$ 90.00	\$ 43,200.00
18	Transport of Water Samples to laboratory	1000	Miles	\$ 2.00	\$ 2,000.00
19	Mob. And Demob. Of Production well rig	2	Each	\$ 65,000.00	\$ 130,000.00
20	Production well drilling - reverse rotary method	1000	L.F.	\$ 100.00	\$ 100,000.00
21	Well casing: 24" Dia. Schedule 20	400	L.F.	\$ 75.00	\$ 30,000.00
22	Well casing: 20" Dia. Schedule 20	400	L.F.	\$ 70.00	\$ 28,000.00
23	Well casing: 16" Dia. Schedule 30	400	L.F.	\$ 65.00	\$ 26,000.00
24	Well casing: 14 Dia. Schedule 30	400	L.F.	\$ 50.00	\$ 20,000.00
25	Well casing: 12" Dia. Schedule 30	100	L.F.	\$ 50.00	\$ 5,000.00
26	Well casing: 10" dia. Schedule 40	100	L.F.	\$ 45.00	\$ 4,500.00
27	Well casing: 6" Dia. Schedule 40	100	L.F.	\$ 20.00	\$ 2,000.00
28	Well casing: 4" Dia. Schedule 40	100	L.F.	\$ 10.00	\$ 1,000.00
29	Stainless Steel well screen: 14" Dia. or 16" tele	70	L.F.	\$ 200.00	\$ 14,000.00
30	Stainless Steel well screen: 10" ID or 12" nom.	70	L.F.	\$ 200.00	\$ 14,000.00
31	Stainless Steel well screen: 6" ID	30	L.F.	\$ 75.00	\$ 2,250.00
32	Stainless Steel well screen: 4" nom	30	L.F.	\$ 50.00	\$ 1,500.00
33	16" Neoprene K Packer	1	Each	\$ 250.00	\$ 250.00
34	12" Neoprene K Packer	1	Each	\$ 250.00	\$ 250.00
35	20"x14" Neoprene K Packer	1	Each	\$ 250.00	\$ 250.00
36	20"x10" Neoprene K Packer	1	Each	\$ 150.00	\$ 150.00
37	16"x10" Neoprene K Packer	1	Each	\$ 150.00	\$ 150.00
38	10"x6" Neoprene K Packer	1	Each	\$ 150.00	\$ 150.00
39	20"x10" Concentric Reducer	1	Each	\$ 500.00	\$ 500.00
40	12"x10" Concentric Reducer	1	Each	\$ 250.00	\$ 250.00
41	10"x6" Concentric Reducer	1	Each	\$ 250.00	\$ 250.00
42	14" Schedule 30 Steel Tailpipe	3	L.F.	\$ 60.00	\$ 180.00
43	10" Schedule 30 Steel Tailpipe	3	L.F.	\$ 50.00	\$ 150.00
44	6" Schedule 40 Steel Tailpipe	3	L.F.	\$ 20.00	\$ 60.00

45	Gravel Pack	400	Bags	\$ 20.00	\$ 8,000.00
46	Grout Seal	40	C.Y.	\$ 300.00	\$ 12,000.00
47	Dev. Pumping: Less than 500 gpm	100	Hour	\$ 90.00	\$ 9,000.00
48	Dev. Pumping: 500 to 1000 gpm	150	Hour	\$ 90.00	\$ 13,500.00
49	Dev. Pumping: 1000 gpm or greater	150	Hour	\$ 90.00	\$ 13,500.00
50	Well development by surging	2	Each	\$ 500.00	\$ 1,000.00
51	Simultaneous surging and pumping	2	Each	\$ 3,000.00	\$ 6,000.00
52	Air impulse technology	15	Days	\$ 1,500.00	\$ 22,500.00
53	Jetting and assoc. eqpt.	16	Each	\$ 500.00	\$ 8,000.00
54	Chemical Treatment for Turbidity	1	Each	\$ 2,000.00	\$ 2,000.00
55	Downtime	24	Hour	\$ 70.00	\$ 1,680.00
56	Color Video log of well	3	Each	\$ 1,000.00	\$ 3,000.00
57	Use of Pump Service Rig	5	Days	\$ 1,000.00	\$ 5,000.00

TOTAL for Contract No. 7369 \$ 997,820.00

Bid Price for Contract No. 7550 \$ 1,289,470.00

Difference \$ 291,650.00
29.2%

DOCUMENTS TO:

A.C. Schultes, Inc.
Aquifer Drilling & Testing, Inc.
Dolphin Well & Pump
Eagle Control Corp.
Gregor Well Drilling
Layne Christensen Co.
Peconic Well & Pump Co.

NOTICES TO:

AARCO Environmental Service Corp.
American Pump Center
Aqua-Tech Environmental Drilling & Testing
C2G Environmental Consultants, LLC
Carboline
Delta Well & Pump Co., Inc.
D.K. Drilling of NY, Inc.
Enviro Trac Ltd.
Environmental Assessment & Remediations
Groundwater & Environmental Services, Inc
GZA Geoenvironmental
Island Pump & Tank Corp.
J.A. Water Systems, Inc.
LaFramboise Well Drilling, Inc.
Laurel Environmental Associates, Ltd.
L.I. Environmental Assessment
Long Island Well Drillers
Medolive Inc.
d/b/a Greenway Environmental Mgmt.
Miller Environmental Group, Inc.
Soil Mechanics Drilling Corp.
Uni-Tech Drilling Co., Inc.
Universal Testing & Inspection Services
Wm. Stothoff Co., Inc.
Bid Reporter
CDC Publishing LLC
Construction Information Systems
McGraw-Hill Construction Companies
Reed Construction Data

Represented at Opening of Bids by:

M. Torres, SCWA
K. Pakula, SCWA
Brian Schleicher, Peconic Well & Pump Co.

TABULATION OF BIDS
CONTRACT NO. 7550

Drilling of Wells & Test Borings Zone B for the Period 10/1/18-9/30/19

Bid Opening, 09/05/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City: State: Zip Code Item Text: Description:	6000004828 10 101835 PECONIC WELL & PUMP PO BOX 1009 HAMPTON BAYS NY 11946 Cashier's Check: \$65,000.00 7550 - Zone B Test Borings
3000462 10 MOB & DEMOB CLEARING AND GRADING EQUIP 5 EA	Total Val.: Unit Price: Rank:	5,000.00 1,000.00 1
3000463 20 CLEARING AND GRADING OF SITE 100.0 HR	Total Val.: Unit Price: Rank:	20,000.00 200.00 1
3000464 30 MOB. & DEMOB. SUPPLY WELL RIG & EQUIP. 2 EA	Total Val.: Unit Price: Rank:	10,000.00 5,000.00 1
3000465 40 DRILLING OF SUPPLY WELL 600 FT	Total Val.: Unit Price: Rank:	15,000.00 25.00 1
3000467 50 MOB/DEMOB MON. WELL RIG < 150 FT 3 EA	Total Val.: Unit Price: Rank:	9,000.00 3,000.00 1
3000466 60 MOB/DEMOB MON. WELL RIG > 150 FT 2 EA	Total Val.: Unit Price: Rank:	6,000.00 3,000.00 1
3000468 70 DRILLING OF MON. WELL 0 TO 150 FT DEEP 400 FT	Total Val.: Unit Price: Rank:	16,000.00 40.00 1
3000469 80 DRILLING OF MON. WELL > 150 FT DEEP 600 FT	Total Val.: Unit Price: Rank:	27,000.00 45.00 1
3000470 90 FURN/INSTALL PVC MON. WELL CASING 800 FT	Total Val.: Unit Price: Rank:	8,000.00 10.00 1
3000471 100 FURN/INSTALL PVC MON. WELL SCREEN	Total Val.: Unit Price:	6,000.00 10.00

TABULATION OF BIDS
CONTRACT NO. 7550

Drilling of Wells & Test Borings Zone B for the Period 10/1/18-9/30/19

Bid Opening, 09/05/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City: State: Zip Code Item Text: Description:	6000004828 10 101835 PECONIC WELL & PUMP PO BOX 1009 HAMPTON BAYS NY 11946 Cashier's Check: \$65,000.00 7550 - Zone B Test Borings	Rank: 1	16,000.00 80.00
110 3000472 TEST PUMPING OF MONITOR WELL 200.0 HR	Total Val.: Unit Price: Rank:	1	1	
120 LOCKING MONITOR WELL CASING 5 EA	Total Val.: Unit Price: Rank:	1,000.00 200.00	1	
130 3000473 MOB/DEMOB REVERSE ROTARY TEST BORING RI 3 EA	Total Val.: Unit Price: Rank:	240,000.00 80,000.00	1	
140 3000475 TEST DRILLING OR BORING - REVERSE ROTAR 2,000 FT	Total Val.: Unit Price: Rank:	100,000.00 50.00	1	
150 3000479 OBTAINING CORED SAMPLES 120 EA	Total Val.: Unit Price: Rank:	6,000.00 50.00	1	
160 3000480 PLACE/REMOVE NOM. 6" DIA. TEST SCREEN 12 EA	Total Val.: Unit Price: Rank:	102,000.00 8,500.00	1	
170 3000481 ADD/DEDUCTED DEVELOPMENT PUMPING 80.0 HR	Total Val.: Unit Price: Rank:	800.00 10.00	1	
180 3000482 TEST PUMPING OF SELECTED SCREEN AREAS 480.0 HR	Total Val.: Unit Price: Rank:	57,600.00 120.00	1	
190 3001647 TRANS WATER SAMPLES TO LABORATORY 1,000 MI	Total Val.: Unit Price: Rank:	2,000.00 2.00	1	
200				

TABULATION OF BIDS
CONTRACT NO. 7550

Drilling of Wells & Test Borings Zone B for the Period 10/1/18-9/30/19

Bid Opening, 09/05/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City: State: Zip Code Item Text: Description:	6000004828 10 101835 PECONIC WELL & PUMP PO BOX 1009 HAMPTON BAYS NY 11946 Cashier's Check: \$65,000.00 7550 - Zone B Test Borings
3000483 MOB/DEMOB OF PRODUCTION WELL RIG 2 EA	Total Val.: Unit Price: Rank:	180,000.00 90,000.00 1
3000484 PRODUCTION WELL DRILLING REVERSE ROTARY 1,000 FT	Total Val.: Unit Price: Rank:	125,000.00 125.00 1
3000485 24" SCH. 20 STEEL WELL CASING 400 FT	Total Val.: Unit Price: Rank:	24,000.00 60.00 1
3000486 20" SCH. 20 STEEL WELL CASING 400 FT	Total Val.: Unit Price: Rank:	36,000.00 90.00 1
3000487 16" SCH. 30 STEEL WELL CASING 400 FT	Total Val.: Unit Price: Rank:	32,000.00 80.00 1
3000488 14" SCH. 30 STEEL WELL CASING 400 FT	Total Val.: Unit Price: Rank:	28,000.00 70.00 1
3000489 12" SCH. 30 STEEL WELL CASING 100 FT	Total Val.: Unit Price: Rank:	6,000.00 60.00 1
3000490 10" SCH. 40 STEEL WELL CASING 100 FT	Total Val.: Unit Price: Rank:	6,000.00 60.00 1
3000491 6" SCH. 40 STEEL WELL CASING 100 FT	Total Val.: Unit Price: Rank:	2,500.00 25.00 1
3000492 4" SCH. 40 STEEL WELL CASING 100 FT	Total Val.: Unit Price: Rank:	1,500.00 15.00 1

TABULATION OF BIDS
CONTRACT NO. 7550

Drilling of Wells & Test Borings Zone B for the Period 10/1/18-9/30/19

Bid Opening, 09/05/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City State Zip Code Item Text: Description:	6000004828 10 101835 PECONIC WELL & PUMP PO BOX 1009 HAMPTON BAYS NY 11946 Cashier's Check: \$65,000.00 7550 - Zone B Test Borings
3000493 16" NOM OR 14" PIPE SIZE S.S. SCREEN 70 FT	Total Val.: Unit Price: Rank:	17,500.00 250.00 1
3000494 10" ID OR 12" NOMINAL S.S. SCREEN 70 FT	Total Val.: Unit Price: Rank:	17,500.00 250.00 1
3000495 6" PIPE SIZE 30 FT	Total Val.: Unit Price: Rank:	3,000.00 100.00 1
3000496 4" NOMINAL 30 FT	Total Val.: Unit Price: Rank:	1,500.00 50.00 1
3000497 16" NEOPRENE K PACKER 1 EA	Total Val.: Unit Price: Rank:	1,500.00 1,500.00 1
3000498 12" NEOPRENE K PACKER 1 EA	Total Val.: Unit Price: Rank:	1,500.00 1,500.00 1
3000499 20" X 14" NEOPRENE K PACKER 1 EA	Total Val.: Unit Price: Rank:	1,500.00 1,500.00 1
3000500 20" X 10" NEOPRENE K PACKER 1 EA	Total Val.: Unit Price: Rank:	1,500.00 1,500.00 1
3000501 16" X 10" NEOPRENE K PACKER 1 EA	Total Val.: Unit Price: Rank:	1,500.00 1,500.00 1
3000502	Total Val.:	1,500.00

TABULATION OF BIDS
CONTRACT NO. 7550

Drilling of Wells & Test Borings Zone B for the Period 10/1/18-9/30/19
Bid Opening, 09/05/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City: State: Zip Code Item Text: Description:	6000004828 10 101835 PECONIC WELL & PUMP PO BOX 1009 HAMPTON BAYS NY 11946 Cashier's Check: \$65,000.00 7550 - Zone B Test Borings	1,500.00
10" X 6" NEOPRENE K PACKER 1 EA	Unit Price: Rank:	1	
3003639 400 CONCENTRIC REDUCER 20" X 10"	Total Val.: Unit Price: Rank:	1	500.00 500.00
3003640 410 CONCENTRIC REDUCER 12" X 10"	Total Val.: Unit Price: Rank:	1	500.00 500.00
3003641 420 CONCENTRIC REDUCER 10" X 6"	Total Val.: Unit Price: Rank:	1	500.00 500.00
3001665 430 14" SCH. 30 STEEL TAILPIPE 3 FT	Total Val.: Unit Price: Rank:	1	150.00 50.00
3001666 440 10" SCH. 40 STEEL TAILPIPE 3 FT	Total Val.: Unit Price: Rank:	1	150.00 50.00
3001667 450 6" SCH. 40 STEEL TAILPIPE 3 FT	Total Val.: Unit Price: Rank:	1	150.00 50.00
3000512 460 GRAVEL PACK 400 BAG	Total Val.: Unit Price: Rank:	1	16,000.00 40.00
3000513 470 GROUT SEAL 40 YD3	Total Val.: Unit Price: Rank:	1	16,000.00 400.00
3000503 480 DEVELOP PUMPING OF PROD. WELL < 500 GPM 100.0 HR	Total Val.: Unit Price: Rank:	1	12,000.00 120.00

TABULATION OF BIDS
CONTRACT NO. 7550

Drilling of Wells & Test Borings Zone B for the Period 10/1/18-9/30/19

Bid Opening, 09/05/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City: State: Zip Code Item Text: Description:	6000004828 101835 PECONIC WELL & PUMP PO BOX 1009 HAMPTON BAYS NY 11946 Cashier's Check: \$65,000.00 7550 - Zone B Test Borings	10
490 3000504 DEVELOP PUMPING OF PROD. WELL < 1000 GP 150.0 HR	Total Val.: Unit Price: Rank:	18,000.00 120.00 1	
500 3000505 DEVELOP PUMPING OF PROD. WELL > 1000 GP 150.0 HR	Total Val.: Unit Price: Rank:	18,000.00 120.00 1	
510 3000506 DEVELOP SOLID OR HOLLOW SURGE BLOCK 2 EA	Total Val.: Unit Price: Rank:	1,000.00 500.00 1	
520 3000507 DEVELOP SIMUL. SURGING AND PUMPING 2 EA	Total Val.: Unit Price: Rank:	6,000.00 3,000.00 1	
530 3002931 Use of Air Impulse/Air burst Technology 15 DAY	Total Val.: Unit Price: Rank:	37,500.00 2,500.00 1	
540 3000508 JETTING AND ASSOCIATED EQUIPMENT 16 EA	Total Val.: Unit Price: Rank:	8,000.00 500.00 1	
550 3001668 CHEMICAL TREATMENT TURBIDITY 1 EA	Total Val.: Unit Price: Rank:	5,000.00 5,000.00 1	
560 3000509 DOWNTIME 24.0 HR	Total Val.: Unit Price: Rank:	120.00 5.00 1	
570 3000510 COLOR VIDEO LOG OF WELL 3 EA	Total Val.: Unit Price: Rank:	3,000.00 1,000.00 1	
580 3001670 PUMP SERVICE RIG	Total Val.: Unit Price:	10,000.00 2,000.00	

TABULATION OF BIDS
 CONTRACT NO. 7550

Drilling of Wells & Test Borings Zone B for the Period 10/1/18-9/30/19

Bid Opening, 09/05/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City State Zip Code Item Text: Description:	6000004828 10 101835 PECONIC WELL & PUMP PO BOX 1009 HAMPTON BAYS NY 11946 Cashier's Check: \$65,000.00 7550 - Zone B Test Borings
5 DAY	Rank:	1
Total Services	Val. Rank:	1,289,470.00 1,289,470.00

CERTIFICATION: I HEREBY certify that this is a correct Tabulation of Bids, received,
 09/05/2018
 for 7550 - Zone B Test Borings, 11:00 AM, prevailing time, Oakdale, New York

Marlon Torres, Purchasing Director

COMPARISON TABULATION OF BID 7552 VS 7373
 Removal & Disposal of Brine Wastewater From the Spur Well Field and Pump Station
 BID OPENING 9/6/2018

Line Item	Service #	Description	UOM	20162	2016	Change in Cost	Percentage Increase/Decrease
10	3000521	PICK UP REMOV/ DISPOS. BRINE WASTEWATE	GA3	56.50	56.00	(0.50)	-0.88%
20	3000522	SCDPW DISPOSAL FEE AT BERGEN POINT	GA3	84.00	84.00	-	0.00%
Totals				140.50	140.00	(0.50)	

TOTAL PERCENTAGE CHANGE (all items above) -1%
 AVERAGE PERCENTAGE CHANGE (all items above) 0%
 ACTUAL INCREASE 0%

Removal & Disposal of Brine Wastewater

Bid Opening, 09/06/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City State ZIP Code Item Text: Description:	6000004836 10 106872 Affordable Cesspool Sewer & Drain Inc. 180 Blydenburgh Rd Islandia NY 11749 No Deposit Removal Disposal Brine Wastewater	6000004834 10 106875 Tully Environmental Inc. 127-50 Northern Blvd Flushing NY 11368 BID BOND Removal Disposal Brine Wastewater	6000004835 10 106873 Direct Drainage Inc. 363 N Dunton Ave East Patchogue NY 11772 Cashier's Check Removal Disposal Brine Wastewater	6000004837 10 104558 ENVIRONMENTAL SERVICES INC. 40 ZORN BLVD YAPHANK NY 11980 Cashier's Check Removal Disposal Brine Wastewater	6000004833 10 106874 Russell Reid Waste Hauling 200 Smith Street Keasbey NJ 08832 BID BOND Removal Disposal Brine Wastewater
10 3000521 PICK UP REMOV/ DISPOS. BRINE WASTEWATE 200 GA3	Total Val.: Unit Price: Rank:	10,000.00 50.00 1	11,200.00 56.00 2	18,200.00 91.00 3	18,800.00 94.00 4	24,000.00 120.00 5
20 3000522 SCDPM DISPOSAL FEE AT BERGEN POINT 200 GA3	Total Val.: Unit Price: Rank:	16,800.00 84.00 1	16,800.00 84.00 1	16,800.00 84.00 1	16,800.00 84.00 1	16,800.00 84.00 1
Total Services	Val.: Rank:	26,800.00 26,800.00 1	28,000.00 16,800.00 2	35,000.00 16,800.00 3	35,600.00 16,800.00 4	40,800.00 16,800.00 5

CERTIFICATION: I HEREBY certify that this is a correct Tabulation of Bids, received, 09/06/2018
for Removal Disposal Brine Wastewater, 11:00 AM, prevailing time, Oskdale, New York

Marlon Torres, Purchasing Director

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

INTEROFFICE CORRESPONDENCE

DATE: September 10, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Contract No. 7553 – Maintenance of Fueling Facilities at Various Authority Sites
November 1, 2018 to October 31, 2019

Opened: September 7, 2018 **Legal Notice:** Newsday
No. of Bids received: 3 **Published:** August 16, 2018
Documents Sent: 8

Low Bidder: Island Pump & Tank Corp.
Bid Amount: \$26,529 (Annual Estimated Cost)

Recommendation: Award to Low Bidder

Comments: The Authority received a total of three (3) bids; ranged from an annual estimated amount of \$26,529 to \$41,865. Bid price comparison to the previous contract (#7375 – awarded September 2016 – Environmental Compliance Associates, amount: \$25,227 [annual]) reflects an approximate 5.3% increase (+\$1,302). Unit price comparison reflects a 5.7% increase, refer to cost comparison document.

Island Pump & Tank Corp., currently holds one (1) additional contract (#7443 – Removal & Disposal of Chlorinated Wastewater from Various Sites, expires June 2019, amount: \$25,400). In fiscal year ending May 31, 2018 (FY 18), they were paid \$25,394.

Contractors past performance on the above referenced contract has been satisfactory.

Competition supports the low bid received.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
D. Mancuso, Chief Human Resources Officer
J. Rinker, Facilities Manager



Attachments: 1 memo & 1 tabulation
Original Proof of Publication
List of Firms Invited to Bid

COMPARISON TABULATION OF BID 7553 VS 7375
Maintenance of Fueling Facilities at Various Authority Sites Suffolk County
BID OPENING 9-7-2018

Line Item	Service #	Description	unit	2016	2018	Change in Cost	Percentage Increase/Decrease
		FUELING SYSTEM - S/A INSP					
10	3000768	- OAKDALE	EA	396.00	397.00	1.00	0.25%
		FUELING SYSTEM - S/A INSP					
20	3000764	- BAY SHORE	EA	396.00	411.00	15.00	3.79%
		FUELING SYSTEM - S/A INSP					
30	3000767	- HAUPPAUGE	EA	396.00	411.00	15.00	3.79%
		FUELING SYSTEM - S/A INSP					
40	3000769	- WESTHAMPTON	EA	396.00	411.00	15.00	3.79%
		FUELING SYSTEM - S/A INSP					
50	3000766	- EAST HAMPTO	EA	396.00	411.00	15.00	3.79%
		FUELING SYSTEM - S/A INSP					
60	3000765	- CORAM	EA	396.00	411.00	15.00	3.79%
		FUELING SYSTEM - LABOR					
70	3000760	FOR REPAIRS	HR	98.00	92.00	(6.00)	-6.12%
		FUELING SYSTEM -					
80	3000763	REMOVAL OF LIQUIDS	GA	0.85	0.85	-	0.00%
		FUELING SYSTEM - PUMP					
90	3000762	TRUCK W/OPERATOR	HR	90.00	125.00	35.00	38.89%
		FUELING SYSTEM -					
100	3000761	MATERIALS & PARTS	%	15%	15%	-	0.00%
Totals				2,564.85	2,669.85	105.00	

TOTAL PERCENTAGE CHANGE (all items above) 51.96%
AVERAGE PERCENTAGE CHANGE (all items above) 5.77%
ACTUAL INCREASE 4%

Maintenance of Fueling Facilities at Various Authority Sites

Bid Opening, 09/07/2018

Line Item Service	Quot. Item:	6000004838	10	6000004839	10	6000004840	10
Sh. Text Qty	Bidder:	104534	ISLAND PUMP & TANK CORPORATION	104533	HENRICH EQUIPMENT CO., INC.	102490	AARCO ENVIRONMENTAL SERVICES CORP
	Name:	40 DOYLE COURT		42 FIELD STREET		50 GEAR AVE	
	Address:	EAST NORTHPORT		WEST BABYLON		LINDENHURST	
	City	NY		NY		NY	
	State	NY		NY		NY	
	Zip Code	11731		11704		11757	
	Item Text:	Bond		Cashiers Check 1,477.00		Bond	
	Description:	Maintenance of Fueling Facilities		Maintenance of Fueling Facilities		Maintenance of Fueling Facilities	
10	3000768 FUELING SYSTEM - S/A INSP - OAKDALE 2 EA	Total Val.:	794.00	840.00	840.00	1,390.00	
		Unit Price:	397.00	420.00	420.00	695.00	
		Rank:	1	2	3		
20	3000764 FUELING SYSTEM - S/A INSP - BAY SHORE 2 EA	Total Val.:	822.00	840.00	840.00	1,290.00	
		Unit Price:	411.00	420.00	420.00	645.00	
		Rank:	1	2	3		
30	3000767 FUELING SYSTEM - S/A INSP - HAUPPAUGE 2 EA	Total Val.:	822.00	840.00	840.00	1,390.00	
		Unit Price:	411.00	420.00	420.00	695.00	
		Rank:	1	2	3		
40	3000769 FUELING SYSTEM - S/A INSP - WESTHAMPTON 2 EA	Total Val.:	822.00	840.00	840.00	1,790.00	
		Unit Price:	411.00	420.00	420.00	895.00	
		Rank:	1	2	3		
50	3000766 FUELING SYSTEM - S/A INSP - EAST HAMPTON 2 EA	Total Val.:	822.00	840.00	840.00	1,990.00	
		Unit Price:	411.00	420.00	420.00	995.00	
		Rank:	1	2	3		
60	3000765 FUELING SYSTEM - S/A INSP - CORAM 2 EA	Total Val.:	822.00	840.00	840.00	1,590.00	
		Unit Price:	411.00	420.00	420.00	795.00	
		Rank:	1	2	3		
70	3000760 FUELING SYSTEM - LABOR FOR REPAIRS 100.0 HR	Total Val.:	9,200.00	12,000.00	12,000.00	15,900.00	
		Unit Price:	92.00	120.00	120.00	159.00	
		Rank:	1	2	3		
80	3000763 FUELING SYSTEM - REMOVAL OF LIQUIDS 500 GA	Total Val.:	425.00	500.00	500.00	875.00	
		Unit Price:	0.85	1.00	1.00	1.75	
		Rank:	1	2	3		
90	3000762 FUELING SYSTEM - PUMP TRUCK W/OPERATOR 50.0 HR	Total Val.:	6,250.00	6,250.00	6,250.00	9,750.00	
		Unit Price:	125.00	125.00	125.00	195.00	
		Rank:	1	1	3		
100	3000761 FUELING SYSTEM - MATERIALS & PARTS	Total Val.:	5,750.00	5,750.00	5,750.00	5,900.00	
		Unit Price:	1.15	1.15	1.15	1.18	

Maintenance of Fueling Facilities at Various Authority Sites

Bid Opening, 09/07/2018

Line Item Service Sh. Text Qty	Quot. Item: Bidder: Name: Address: City State Zip Code Item Text: Description:	6000004838 10 104534 ISLAND PUMP & TANK CORPORATION 40 DOYLE COURT EAST NORTHPORT NY 11731 Bond Maintenance of Fueling Facilities	6000004839 10 104533 HENRICH EQUIPMENT CO., INC. 42 FIELD STREET WEST BABYLON NY 11704 Cashiers Check 1,477.00 Maintenance of Fueling Facilities	6000004840 10 102490 AARCO ENVIRONMENTAL SERVICES CORP 50 GEAR AVE LINDENHURST NY 11757 Bond Maintenance of Fueling Facilities
5,000 \$	Rank: 1		1	3
Total Services	Val.: 26,529.00 Rank: 1	26,529.00 26,529.00	29,540.00 12,000.00	41,865.00 0.00

CERTIFICATION: I HEREBY certify that this is a correct Tabulation of Bids, received, 09/07/2018
 for Maintenance of Fueling Facilities, 11:00 AM, prevailing time, Oakdale, New York


 Marlon Torres, Purchasing Director

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

INTEROFFICE CORRESPONDENCE

DATE: September 5, 2018
TO: Chairman/Board Members
FROM: Jeff Szabo, Chief Executive Officer
SUBJECT: Extension of RFP 1478 –Employment Screening Service
January 1, 2019 to December 31, 2019

AccuSource Inc., by way of attached letter, has agreed to extend the subject agreement for a fourth and final year.

Original contract award, in November 2015, was for an unspecified amount. The first initial contract term was for two consecutive years. The Board was advised that prior spend history was approximately between \$6,000 and \$8,000 per year.

In fiscal year ending 5/31/2018 (FY18), the Authority has spent approximately \$4,389 under the subject contract.
Contractor's performance is satisfactory.

AccuSource Inc., holds no other contracts.

We are requesting contract extension for the one-year term noted above.

Reviewed by:

Jeff Szabo, Chief Executive Officer
M. Torres, Purchasing Director
D. Mancuso, Chief Human Resources Officer

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—

Attachments: 1 memo

August 28, 2018

Suffolk County Water Authority
PO Box 38
Oakdale, New York 11769-0901
Attn: Purchasing

Re: Agreement No. 1478 - Employment Screening Services

Extension of Contract – January 1, 2018 to December 31, 2018

Dear Sir/Madam:

AccuSource, Inc. has agreed to accept the extension of the current provisions of Agreement No. 1478. We also agree to maintain the same pricing structure for Suffolk County Water Authority.

Please let us know if you have any questions that we may answer.

Best Regards,



Lisa Holder
Chief Executive Officer

**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

I N T E R O F F I C E C O R R E S P O N D E N C E

DATE: September 12, 2018
TO: Jeffrey Szabo, CEO
FROM: Timothy J. Kilcommons, P.E., Chief Engineer/Dir R&D
SUBJECT: RFP#1521: Automatic Vehicle Locator and Monitoring System (AVLM)

Thirteen proposals were submitted in response to RFP#1521 AVLM, also known as our vehicle GPS system. A committee was formed (see attached list) of stakeholders who use the current program. A set of minimum criteria was provided in the RFP. A five-year cost approach was used for evaluation purposes since that is the maximum term under the RFP and because it would allow for a direct comparison of bids that might be front-loaded due to hardware costs.

Due to the high volume of proposals, two review teams were formed, reviewing six and seven proposals respectively. Rankings were assigned based on a combination of experience, quality of proposal, and cost. The committee met again to discuss the rankings and the result narrowed the field of thirteen to three. The pricing of the final three vendors is shown in the table below (chart of all cost proposals received is attached). Complete proposals from all vendors are available upon request.

VENDOR NAME	FIVE-YEAR COST
ThingTech, Atlanta, GA	\$420,926
Vehicle Tracking Systems (VTS), Commack, NY	\$462,553
MarshallGIS (LiGO), Boise, ID	\$514,220

The three finalists were invited to appear before the committee to demonstrate live versions of their software, to explain their products in greater detail, and to answer questions. Chief Technology Officer Mike Litka, and Deputy CEO for Operations Joe Pokorny also sat in on the vendor demonstrations.

The committee learned that the AVLM industry has moved from providing basic GPS locations of vehicles and driver safety parameters to robust platforms that collect reams of data that can then be made available to other systems such as GIS, SAP, and mobile workforce technology systems. ThingTech in particular seems to perform that integration role very well. VTS and MarshallGIS also have these abilities to varying degrees. VTS stood out however for its user-friendly interface and mobile applications in the core functions of the AVLM: GPS functionality and the ability to impart useful information to the user. The graphic displays make it easy for supervisors to glean data instantly on their vehicles by color and symbol without needing to drill down. This is important to field supervisors and will encourage more use of the system by SCWA staff.

VTS also has in-house local installation crews. The other two vendors had offered their own crews from out of state or to hire a local subcontractor to perform the installations but the VTS solution is considered to be highly preferable. Installation problems and subsequent responsibility have plagued the current AVL vendor.

VTS has proposed pricing based on their current contract with Suffolk County (\$21.99 per vehicle per month). The projected five year cost puts them below average for the thirteen submitted proposals and in the middle of the final three vendors. It does represent a 52% increase over the current vendor. That system however, failed to meet our needs on a consistent basis and failed to gain any trust with our staff in terms of reliability and function (this is why the RFP was written). We are seeking Board approval at the September 2018 meeting to enter into an agreement with VTS for a two-year period with an option to renew for three additional one-year periods based on the same terms. If you have any further questions regarding the above, please contact me.

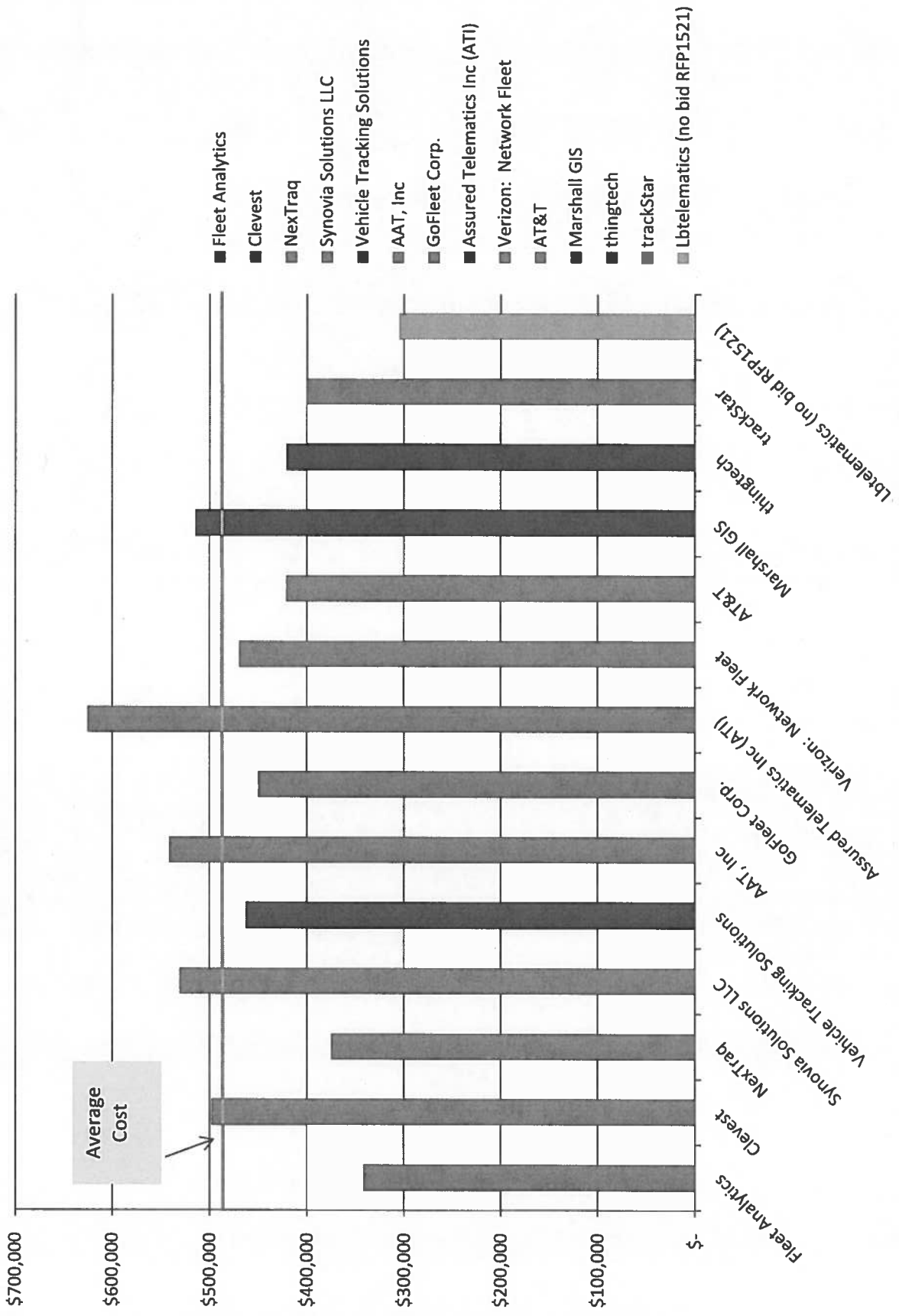
Attachment

Cc: J. Pokorny, P.E.
M. Torres
File

RFP # 1521 AVL M Committee Members


NAME	TITLE
Chris Given	Supt. of Maintenance CM
Kris Zimmer	Asst. Supt. PC
Steven Galante	Director, IT
Steve Monahan	Fleet Manager
Larry Anderson	Workforce Technology Manager, CS
Rich Reinfrank	Director of Field Service, CS
Paul Kuzman (initial evals only)	Director of Const. Maint.
Tim Kilcommons	Chief Engineer / Dir. R&D
<i>Marlon Torres (advisory role)</i>	<i>Director of Purchasing</i>
<i>Mike Litka (vendor demos)</i>	<i>Chief Technology Officer</i>
<i>Joe Pokorny (vendor demos)</i>	<i>Deputy CEO for Operations</i>

AVLM Five Year Costs



**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

INTEROFFICE CORRESPONDENCE

DATE: September 10, 2018
TO: Jeffrey Szabo, CEO
FROM: Timothy J. Kilcommons, P.E., Chief Engineer/Dir. R&D 
SUBJECT: RFP #1525 Consulting Engineering Services for Five-Year Report on the Properties and Operations of SCWA

A single response to RFP#1525, aka the Five-year report, was received on August 29, 2018. The firm and their proposed fee are as follows:

CONSULTANT NAME	PROPOSED FEE
H2M (headquarters Melville, NY)	\$129,000

The five year report is required under the terms of the Authority's 1988 Bond Resolution. The Resolution requires the report be issued by June of 2019 with a preliminary report due for review by January 31, 2019. This timeline does not allow sufficient time to put the RFP back out for new proposals. The single submission by H2M is notable because H2M performed the last 5-year report satisfactorily for the same amount of \$129,000.

We requested that Purchasing canvas the other consultants who were directly notified of the project to ascertain their reasons for not offering a proposal. Two responses were received: the first stated that they could not perform the work in the given timeline, the second indicated that they would like the opportunity to discuss RFP's with SCWA prior to the RFP's being publicly advertised. This would not be an acceptable practice, though we could add a meeting for interested vendors prior to the next proposal due date to discuss the requirements. Besides the attached list of previous prospective consultants, the RFP was posted/advertised on the following: SCWA web site, New York State Purchasing Group web site, Newsday, and the New York State Contract Reporter.

The scope of work is extremely specific to the water industry and as such the available consultants are few in number. Over the next four years, we will attempt to cultivate new vendors through networking and perhaps through any Purchasing initiatives such as a proposed SCWA web site re-design. A list showing the consultants who were sent the RFP is attached. Based on the proposal received and H2M's experience performing this work, and the price which has remained the same as five years ago, the recommendation is to award to H2M in the amount of \$129,000.

It should be noted that H2M is currently under contract to SCWA. They provide tank inspection services. We feel this limited affiliation with SCWA does not present any issues that would impact their ability to provide the proposed engineering services.

If this meets with your approval, please place this on the agenda for Board approval at their September 2018 meeting. If you have any further questions regarding the above, please contact me.

Attachment

Cc: J. Pokorny, P.E.

**Consulting Engineering Services to Perform a Five-Year Report on the Properties
and Operations of the Suffolk County Water Authority**


August 29, 2018

RFP 1525

Amawalk Consulting Group LLC	26 Broadway Street – Suite 761	New York, NY 10004 Mr. Edward Markus
Black and Veatch Corp.	888 Veterans Memorial Hwy Suite 120	Hauppauge, NY 11788
Cameron Engineering	100 Sunny side Boulevard - Suite 100	Woodbury, NY 11797 Mr. Joseph Amato, P.E.
Camp Dresser & McKee, Inc.	60 Crossway Park Drive West suite 340	Woodbury, New York 11797
Dvirka & Bartilucci Consulting Engineers	330 Crossways Park Drive	Woodbury, NY 11797 Mr. Bill Merklin
Gannett Fleming	100 Crossways Park West Ste 300	Woodbury, NY 11797 Mr. Steven Hadjiyane, P.E.
H2M Group	575 Broad Hollow Road	Melville, NY 11747 Mr. Dennis Kelleher, P.E.
Hazen & Sawyer	498 Seventh Ave, 11 th Floor	New York, NY 10018 Ms. Susan Melamud
Henderson & Bodwell	P.O. Box 759	Plainview, NY 11803-0759
Malcolm Pirnie, Inc.	27-01 Queens Plaza, North Ste 800	Long Island City, NY 11101
McClave Engineering PC	125 Oakland Ave St 201	Port Jefferson, NY 11777
Metcalf and Eddy	605 3 rd Avenue, 27 th Floor	New York, NY 10158 Mr. Paul Storella
PS&S	1324 Wyckoff Road Suite 101	Wall township, NJ07753 Mr. David Applegate
Sidney B. Bowne	235 East Jericho Turnpike PO Box 109	Mineola, NY 11501 Mr. John Siskind
WFC Architects	12 Technology Drive Ste 1	Setauket, NY 11733 Terry Merrifield

**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

INTEROFFICE CORRESPONDENCE

DATE: September 11, 2018
TO: Jeff Szabo, Chief Executive Officer
FROM: Elizabeth K. Vassallo, Chief Financial Officer 
SUBJECT: Town of Brookhaven – Water District Contracts

The Authority has entered into a number of contracts with various municipalities throughout Suffolk County for the purpose of installing water mains within the related municipality's created water district. Under the terms of these contracts, the municipality agrees to pay for the installation of the water main, plus interest over a 38-year period. The Authority agrees to provide a credit against the annual payment due equal to a percentage of the water revenues collected from customers within the designated water improvement area. The amount of the credit cannot exceed the gross payments due. SCWA retains title to the improvements installed within the district.

The Authority entered into four separate water supply districts with the Town of Brookhaven:

Holtsville Water Supply District, APG 9813, dated August 13th, 1981
Hanover Place Water Supply District, APG 9612, dated July 24th 1984
Shirley Water Supply District, APG 9825, dated November 28th, 1984
Medford Water Supply District, APG 9882, dated April 26th, 1985

Three out of the four contracts have water revenues per area exceeding the guaranteed annual bill.

The Medford Water Supply District has a remaining eight annual payments required, offset by eight water credits of 40% collected. Utilizing present value calculations the payoff is \$258,576.88.

There is not a provision written in the contract to end this agreement early therefore it requires Suffolk County Water Authority Board approval.

If you are in agreement, please include this on the Board Agenda for members' consideration at their next meeting of September 25, 2018.

FIN-18-082



SUFFOLK COUNTY WATER AUTHORITY

INTEROFFICE MEMORANDUM

DATE: September 17, 2018

TO: Jeff Szabo, Chief Executive Officer

FROM: Donna Mancuso, Chief Human Resources Officer

A handwritten signature in dark ink, appearing to read "DM", is written over the name "Donna Mancuso" in the "FROM:" line.

**SUBJECT: *RESCIND POLICY 301 –
TEMPORARY MANAGEMENT SHIFT CHANGE***

Since this policy was implemented in 2000 it has been used infrequently and has not been used at all since April of 2013. Therefore, it is recommended to rescind this policy. Management employees are required to work alternate schedules which may include working evening and early morning hours. There will be no additional premium added to the employee's salary.

SUFFOLK COUNTY WATER AUTHORITY
POLICIES AND PROCEDURES

SUBJECT: POLICY GOVERNING TEMPORARY MANAGEMENT SHIFT CHANGE **FILE UNDER SECTION: 3**

EFFECTIVE DATE: SEPTEMBER 29, 2010 **POLICY NO.: 301**

SUPERSEDES: OCTOBER 1, 2000

APPROVED: 

POLICY

Non-bargaining unit employees (management employees) may be asked to shift their hours of work for special construction projects. It is the intent of this policy to outline the additional compensation that will be paid to said individuals during such shift changes and the procedures to be used to implement the additional compensation.

PROCEDURE

When it has been determined that a construction project will take place outside of normal business hours and the project will take place predominately through the evening and early morning hours, Authority management employees who are required to change their hours of work (shift) shall be compensated as follows:

1. Compensation shall be at the employee's regular hourly base rate with an additional 20 percent premium added to the rate for the hours actually worked in the evening and the early morning.
2. For purposes of calculating overtime as outlined in Human Resources Policy 305 – Management Overtime, during the shift change, overtime shall be computed based upon the new, temporary, hours of work.
3. This policy shall not apply to those individuals employed specifically to work a shift other than normal business hours.
4. Sleep time shall not apply to individuals working temporary shift changes.
5. The payment of shift premiums to management employees as outlined in this policy must be pre-approved by the respective Deputy Chief Executive Officer with said approval communicated to the Payroll department **prior** to the onset of the project.



SUFFOLK COUNTY WATER AUTHORITY

INTEROFFICE MEMORANDUM

DATE: September 20, 2018
TO: Jeffrey W. Szabo, Chief Executive Officer
FROM: Donna Mancuso, Chief Human Resources Officer *DM*

SUBJECT: *NEW POLICY 418 – COMBATING SEXUAL HARASSMENT*

New York State recently passed legislation which focuses on addressing workplace sexual harassment. Effective October 9, 2018, employers must adopt a sexual harassment prevention policy and training program and provide this training annually to all employees.

Although we have a Harassment Policy and have provided training to all employees in the past, this legislation requires specific content and requires an interactive format. A model policy and training program was recently drafted by New York State and posted on their website for comments. The comment period on the draft closed September 12, 2018. Revisions have not been published as of this date. Our policy and training program must be equal to their draft model. Human Resources is currently incorporating the NYS training model into our Respectful Workplace Training module and this training will begin in early October and must be completed before January 1, 2019.

In order to comply with this legislation, I have drafted a new Policy No. 418 utilizing their template as the model for the policy and for the complaint form.

Please review and submit to the board members for their approval at the September 28, 2018 board meeting. This policy must be in effect by October 9, 2018.

SUFFOLK COUNTY WATER AUTHORITY
POLICIES AND PROCEDURES

SUBJECT: COMBATING SEXUAL HARASSMENT

FILE UNDER SECTION: 4

EFFECTIVE DATE: September 28, 2018

POLICY NO.: 418

SUPERSEDES: NEW

APPROVED:

Introduction

Suffolk County Water Authority is committed to maintaining a workplace free from sexual harassment. Sexual harassment is a form of workplace discrimination. Suffolk County Water Authority has a zero-tolerance policy for any form of sexual harassment, and all employees are required to work in a manner that prevents sexual harassment in the workplace. This Policy is one component of Suffolk County Water Authority's commitment to a discrimination-free work environment.

Sexual harassment is against the law. All employees have a legal right to a workplace free from sexual harassment, and employees can enforce this right by filing a complaint internally with Suffolk County Water Authority or with a government agency or in court under federal, state or local antidiscrimination laws.

Policy:

1. Suffolk County Water Authority's policy applies to all employees, applicants for employment, interns, whether paid or unpaid, contractors and persons conducting business with Suffolk County Water Authority.
2. Sexual harassment will not be tolerated. Any employee or individual covered by this policy who engages in sexual harassment or retaliation will be subject to remedial and/or disciplinary action, up to and including termination.
3. Retaliation Prohibition: No person covered by this Policy shall be subject to adverse employment action including being discharged, disciplined, discriminated against, or otherwise subject to adverse employment action because the employee reports an incident of sexual harassment, provides information, or otherwise assists in any investigation of a sexual harassment complaint. Suffolk County Water Authority has a zero-tolerance policy for such retaliation against anyone who, in good faith complains or provides information about suspected sexual harassment. Any employee of Suffolk County Water Authority who retaliates against anyone involved in a sexual harassment investigation will be subjected to disciplinary action, up to and including termination. Any employee, paid or unpaid intern, or non-employee working in the workplace who believes they have been subject to such retaliation should inform a supervisor, manager, Donna Mancuso, Chief Human Resources Officer or Timothy Hopkins, General Counsel or any staff member of Human Resources or the Legal department. Any employee, paid or unpaid intern or non-employee who believes they have been a victim of such retaliation may also seek compensation in other available forums, as explained below in the section on Legal Protections.
4. Sexual harassment is offensive, is a violation of our policies, is unlawful, and subjects Suffolk

County to liability for harm to victims of sexual harassment. Harassers may also be individually subject to liability. Employees of every level who engage in sexual harassment, including managers and supervisors who engage in sexual harassment or who knowingly allow such behavior to continue, will be penalized for such misconduct.

5. Suffolk County Water Authority will conduct a prompt, thorough and confidential investigation that ensures due process for all parties, whenever management receives a complaint about sexual harassment, or otherwise knows of possible sexual harassment occurring. Effective corrective action will be taken whenever sexual harassment is found to have occurred. All employees, including managers and supervisors, are required to cooperate with any internal investigation of sexual harassment.
6. All employees are encouraged to report any harassment or behaviors that violate this policy. Suffolk County Water Authority will provide all employees a complaint form for employees to report harassment and file complaints.
7. Managers and supervisors are **required** to report any complaint that they receive, or any harassment that they observe to Donna Mancuso, Chief Human Resources Officer or Timothy Hopkins, General Counsel or any staff member of Human Resources or the Legal department.
8. This policy applies to all employees, paid or unpaid interns, and non-employees and all must follow and uphold this policy. This policy must be posted prominently in all work locations and be provided to employees upon hiring.

What Is “Sexual Harassment”?

Sexual harassment is a form of sex discrimination and is unlawful under federal, state, and (where applicable) local law. Sexual harassment includes harassment on the basis of sex, sexual orientation, gender identity and the status of being transgender.

Sexual harassment includes unwelcome conduct which is either of a sexual nature, or which is directed at an individual because of that individual's sex when:

- Such conduct has the purpose or effect of unreasonably interfering with an individual's work performance or creating an intimidating, hostile or offensive work environment, even if the complaining individual is not the intended target of the sexual harassment;
- Such conduct is made either explicitly or implicitly a term or condition of employment; or
- Submission to or rejection of such conduct is used as the basis for employment decisions affecting an individual's employment.

A sexually harassing hostile work environment consists of words, signs, jokes, pranks, intimidation or physical violence which are of a sexual nature, or which are directed at an individual because of that individual's sex. Sexual harassment also consists of any unwanted verbal or physical advances, sexually explicit derogatory statements or sexually discriminatory remarks made by someone which are offensive or objectionable to the recipient, which cause the recipient discomfort or humiliation, which interfere with the recipient's job performance.

Sexual harassment also occurs when a person in authority tries to trade job benefits for sexual favors. This can include hiring, promotion, continued employment or any other terms, conditions or privileges of employment. This is also called “quid pro quo” harassment.

Any employee who feels harassed should complain so that any violation of this policy can be corrected promptly. Any harassing conduct, even a single incident, can be addressed under this policy.

Examples of sexual harassment

The following describes some of the types of acts that may be unlawful sexual harassment and that are strictly prohibited:

- Physical assaults of a sexual nature, such as:
 - Touching, pinching, patting, grabbing, brushing against another employee's body or poking another employees' body;
 - Rape, sexual battery, molestation or attempts to commit these assaults.

- Unwanted sexual advances or propositions, such as:
 - Requests for sexual favors accompanied by implied or overt threats concerning the victim's job performance evaluation, a promotion or other job benefits or detriments;
 - Subtle or obvious pressure for unwelcome sexual activities.

- Sexually oriented gestures, noises, remarks, jokes or comments about a person's sexuality or sexual experience, which create a hostile work environment.

- Sexual or discriminatory displays or publications anywhere in the workplace, such as:
 - Displaying pictures, posters, calendars, graffiti, objects, promotional material, reading materials or other materials that are sexually demeaning or pornographic. This includes such sexual displays on workplace computers or cell phones and sharing such displays while in the workplace.

- Hostile actions taken against an individual because of that individual's sex, sexual orientation, gender identity and the status of being transgender, such as:
 - Interfering with, destroying or damaging a person's workstation, tools or equipment, or otherwise interfering with the individual's ability to perform the job;
 - Sabotaging an individual's work;
 - Bullying, yelling, name-calling.

Who can be a target of sexual harassment?

Sexual harassment can occur between any individuals, regardless of their sex or gender. New York Law protects employees, paid or unpaid interns, and non-employees, including independent contractors, and those employed by companies contracting to provide services in the workplace. A perpetrator of sexual harassment can be a superior, a subordinate, a coworker or anyone in the workplace including an independent contractor, contract worker, vendor, client, customer or visitor.

Where can sexual harassment occur?

Unlawful sexual harassment is not limited to the physical workplace itself. It can occur while employees are traveling for business or at employer sponsored events or parties. Calls, texts, emails, and social media usage by employees can constitute unlawful workplace harassment, even if they occur away from the workplace premises or not during work hours.

What is "Retaliation"?

Unlawful retaliation can be any action that would keep a worker from coming forward to make or support a sexual harassment claim. Adverse action need not be job-related or occur in the workplace to constitute unlawful retaliation.

Such retaliation is unlawful under federal, state, and (where applicable) local law. The New York State Human Rights Law protects any individual who has engaged in "protected activity." Protected activity occurs when a person has:

- filed a complaint of sexual harassment, either internally or with any anti-discrimination agency;
- testified or assisted in a proceeding involving sexual harassment under the Human Rights Law or other anti-discrimination law;
- opposed sexual harassment by making a verbal or informal complaint to management, or by simply informing a supervisor or manager of harassment;
- complained that another employee has been sexually harassed; or
- encouraged a fellow employee to report harassment.

Reporting Sexual Harassment

Preventing sexual harassment is everyone's responsibility. Suffolk County Water Authority cannot prevent or remedy sexual harassment unless it knows about it. Any employee, paid or unpaid intern or non-employee who has been subjected to behavior that may constitute sexual harassment is encouraged to report such behavior to a supervisor, manager or Donna Mancuso, Chief Human Resources Officer or Timothy Hopkins, General Counsel or any staff member of Human Resources or the Legal department. Anyone who witnesses or becomes aware of potential instances of sexual harassment should report such behavior to a supervisor, manager or Donna Mancuso, Chief Human Resources Officer or Timothy Hopkins, General Counsel or any staff member of Human Resources or the Legal department.

Reports of sexual harassment may be made verbally or in writing. A form for submission of a written complaint is attached to this Policy, and all employees are encouraged to use this complaint form. Employees who are reporting sexual harassment on behalf of other employees should use the complaint form and note that it is on another employee's behalf. Employees, paid or unpaid interns or non-employees who believe they have been a victim of sexual harassment may also seek assistance in other available forums, as explained below in the section on Legal Protections.

Supervisory Responsibilities

All supervisors and managers who receive a complaint or information about suspected sexual harassment, observe what may be sexually harassing behavior or for any reason suspect that sexual harassment is occurring, **are required** to report such suspected sexual harassment to Donna Mancuso, Chief Human Resources Officer or Timothy Hopkins, General Counsel.

In addition to being subject to discipline if they engaged in sexually harassing conduct themselves, supervisors and managers will be subject to discipline for failing to report suspected sexual harassment or otherwise knowingly allowing sexual harassment to continue.

Supervisors and managers will also be subject to discipline for engaging in any retaliation.

Complaint And Investigation Of Sexual Harassment

All complaints or information about suspected sexual harassment will be investigated, whether that information was reported in verbal or written form. Investigations will be conducted in a timely manner, and will be confidential to the extent possible.

An investigation of any complaint, information or knowledge of suspected sexual harassment will be prompt and thorough, and should be completed within 30 days. The investigation will be confidential to the extent possible. All persons involved, including complainants, witnesses and alleged perpetrators will be accorded due process to protect their rights to a fair and impartial investigation.

Any employee may be required to cooperate as needed in an investigation of suspected sexual harassment. Employees who participate in any investigation will not be retaliated against.

Investigations will be done in accordance with the following steps:

- Upon receipt of complaint, Human Resources and the Legal Department will conduct an immediate review of the allegations, and take any interim actions, as appropriate. If complaint is oral, encourage the individual to complete the "Complaint Form" in writing. If he or she refuses, prepare a Complaint Form based on the oral reporting.
- If documents, emails or phone records are relevant to the allegations, take steps to obtain and preserve them.
- Request and review all relevant documents, including all electronic communications.
- Interview all parties involved, including any relevant witnesses;
- Create a written documentation of the investigation (such as a letter, memo or email), which contains the following:
 - A list of all documents reviewed, along with a detailed summary of relevant documents;
 - A list of names of those interviewed, along with a detailed summary of their statements;
 - A timeline of events;
 - A summary of prior relevant incidents, reported or unreported; and
 - The final resolution of the complaint, together with any corrective actions action(s).
- Keep the written documentation and associated documents in the employer's records.
- Promptly notify the individual who complained and the individual(s) who responded of the final determination and implement any corrective actions identified in the written document.
- Inform the individual who complained of their right to file a complaint or charge externally as outlined below.

Legal Protections And External Remedies

Sexual harassment is not only prohibited by Suffolk County Water Authority but is also prohibited by state, federal, and, where applicable, local law.

Aside from the internal process at Suffolk County Water Authority, employees may also choose to pursue legal remedies with the following governmental entities **at any time**.

New York State Division of Human Rights (DHR)

The Human Rights Law (HRL), codified as N.Y. Executive Law, art. 15, § 290 et seq., applies to employers in New York State with regard to sexual harassment, and protects employees, paid or unpaid interns and non-employees regardless of immigration status. A complaint alleging violation of the Human Rights Law may be filed either with DHR or in New York State Supreme Court.

Complaints with DHR may be filed any time **within one year** of the harassment. If an individual did not file at DHR, they can sue directly in state court under the HRL, **within three years** of the alleged discrimination. An individual may not file with DHR if they have already filed a HRL complaint in state court.

Complaining internally to Suffolk County Water Authority does not extend your time to file with DHR or in court. The one year or three years is counted from date of the most recent incident of harassment.

You do not need an attorney to file a complaint with DHR, and there is no cost to file with DHR.

DHR will investigate your complaint and determine whether there is probable cause to believe that discrimination has occurred. Probable cause cases are forwarded to a public hearing before an administrative law judge. If discrimination is found after a hearing, DHR has the power to award relief, which varies but may include requiring your employer to take action to stop the harassment, or redress the damage caused, including paying monetary damages, attorney's fees and civil fines.

DHR's main office contact information is: NYS Division of Human Rights, One Fordham Plaza, Fourth Floor, Bronx, New York 10458, (718) 741-8400 or www.dhr.ny.gov

Contact DHR at (888) 392-3644 or visit dhr.ny.gov/complaint for more information about filing a complaint. The website has a complaint form that can be downloaded, filled out, notarized and mailed to DHR. The website also contains contact information for DHR's regional offices across New York State.

United States Equal Employment Opportunity Commission (EEOC)

The EEOC enforces federal anti-discrimination laws, including Title VII of the 1964 federal Civil Rights Act (codified as 42 U.S.C. § 2000e et seq.). An individual can file a complaint with the EEOC anytime within 300 days from the harassment. There is no cost to file a complaint with the EEOC. The EEOC will investigate the complaint, and determine whether there is reasonable cause to believe that discrimination has occurred, at which point the EEOC will issue a Right to Sue letter permitting the individual to file a complaint in federal court.

The EEOC does not hold hearings or award relief, but may take other action including pursuing cases in federal court on behalf of complaining parties. Federal courts may award remedies if discrimination is found to have occurred.

If an employee believes that he/she has been discriminated against at work, he/she can file a "Charge of Discrimination." The EEOC has district, area, and field offices where complaints can be filed. Contact the EEOC by calling 1-800-669-4000 (1-800-669-6820 (TTY)), visiting their website at www.eeoc.gov or via email at info@eeoc.gov

If an individual filed an administrative complaint with DHR, DHR will file the complaint with the EEOC to preserve the right to proceed in federal court.

Local Protections

Many localities enforce laws protecting individuals from sexual harassment and discrimination. An individual should contact the county, city or town in which they live to find out if such a law exists.

Contact the Local Police Department

If the harassment involves physical touching, coerced physical confinement or coerced sex acts, the conduct may constitute a crime. Contact the local police department.

¹ A non-employee is someone who is (or is employed by) a contractor, subcontractor, vendor, consultant, or anyone providing services in the workplace. Protected non-employees include persons commonly referred to as independent contractors, "gig" workers and temporary workers. Also included are persons providing equipment repair, cleaning services or any other services provided pursuant to a contract with the employer.

Adoption of this policy does not constitute a conclusive defense to charges of unlawful sexual harassment. Each claim of sexual harassment will be determined in accordance with existing legal standards, with due consideration of the particular facts and circumstances of the claim, including but not limited to the existence of an effective anti-harassment policy and procedure.



**COMPLAINT FORM FOR REPORTING SEXUAL HARASSMENT
SUFFOLK COUNTY WATER AUTHORITY**

New York State Labor Law requires all employers to adopt a sexual harassment prevention policy that includes a complaint form for employees to report alleged incidents of sexual harassment.

If you believe that you have been subjected to sexual harassment, you are encouraged to complete this form and submit it to Donna Mancuso, Chief Human Resources Officer via email to donna.mancuso@scwa.com or via fax to (6331) 563-0300 or Timothy Hopkins, General Counsel via email to timothy.hopkins@scwa.com or via fax to (631) 563-0370. Once you submit this form, your employer must follow its sexual harassment prevention policy and investigate any claims.

If you are more comfortable reporting verbally or in another manner, your employer is still required to follow its sexual harassment prevention policy by investigating the claims as outlined at the end of this form.

For additional resources, visit: <https://www.ny.gov/programs/combating-sexual-harassment-workplace>

COMPLAINANT INFORMATION

Name:

Home Address:

Work Address:

Home Phone:

Work Phone:

Job Title:

Email:

Select Preferred Communication Method:

(please select one)

SUPERVISORY INFORMATION

Immediate Supervisor's Name:

Title:

Work Phone:

Work Address:

COMPLAINT INFORMATION

1. Your complaint of Sexual Harassment is made against:

Name:

Title:

Work Address

Work Phone:

Relationship to you: Supervisor Subordinate Co-Worker Other

2. Please describe the conduct or incident(s) that is the basis of this complaint and your reasons for concluding that the conduct is sexual harassment. Please use additional sheets of paper if necessary and attach any relevant documents or evidence.

3. Date(s) sexual harassment occurred:

Is the sexual harassment continuing? Yes No

4. Please list the name and contact information of any witnesses or individuals that may have information related to your complaint:

The last two questions are optional, but may help facilitate the investigation.

5. Have you previously complained or provided information (verbal or written) about sexual harassment at Suffolk County Water Authority? If yes, when and to whom did you complain or provide information?

Employees that file complaints with their employer might have the ability to get help or file claims with other entities including federal, state or local government agencies or in certain courts.

6. Have you filed a claim regarding this complaint with a federal, state or local government agency?
Yes No

Have you instituted a legal suit or court action regarding this complaint?

Yes No

Have you hired an attorney with respect to this complaint?

Yes No

I request that Suffolk County Water Authority investigate this complaint of sexual harassment in a timely and confidential manner as outlined below, and advise me of the results of the investigation.

Signature: _____

Date: _____

Instructions for Employers


If you receive a complaint about alleged sexual harassment, you must follow your sexual harassment prevention policy by investigating the allegations through actions such as:

- Speaking with the employee
- Speaking with the alleged harasser
- Interviewing witnesses
- Collecting and reviewing any related documents

You should create a written document of the findings of the investigation, along with any corrective actions taken and notify the employee and the individual(s) against whom the complaint was made. This may be done via email.

**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

INTEROFFICE CORRESPONDENCE

DATE: September 13, 2018
TO: Jeff Szabo, Chief Executive Officer
FROM: Elizabeth Vassallo, Chief Financial Officer 
SUBJECT: **Budget Amendment # 2 – F/Y/E May 31, 2019**

In accordance with the attached memo from Tim Kilcommons, approved by Joseph Pokorny, we are requesting the following budget transfers

Decrease

065-19	New Pump Station Infrastructure	\$150,000
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Increase

100-19	General Services	\$150,000
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If approved, these transfers will not increase the current Capital Budget of \$84.54 million.

If you are in agreement, please include this on the Board Agenda for members' consideration at their next meeting of September 28, 2017.

ms
attachment

c: J. Pokorny, T. Kilcommons, D. Malone, L. Preller

FIN-18-084

**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

INTEROFFICE CORRESPONDENCE

DATE: September 12, 2018
TO: Jeffrey Szabo, CEO
FROM: Timothy J. Kilcommons, P.E., Chief Engineer/Dir. R&D
SUBJECT: **FY2018 Budget transfer request from line item 065 New Pump Station Infrastructure to line item 100 General Services**

A recent NYSDEC inspection of SCWA's petroleum bulk storage facilities has resulted in the need for three projects under the capital budget. The first project is the replacement of the fuel tanks that serve two of the backup generators in Oakdale. The current tanks are not double-walled and have no containment for spills. Last month the Board approved the purchase of these replacement tanks (Resolution 255-08-2018).

The second project involves the replacement of the manholes on two petroleum tanks at both our Oakdale and Westhampton sites (four tanks total). The existing manholes are severely corroded. Each tank has two manholes so a total of eight manholes will be replaced.


The third project is the installation of a NYSDEC-compliant leak detection system for the existing petroleum storage tanks in Bay Shore. Regulations require these detection systems; the existing facility has none.

The previously approved Oakdale replacement tanks cost \$22,300 for the tanks; related work (piping, concrete, electrical, restoration) will cost an additional \$50,000. The manhole replacements at Westhampton and Oakdale are \$20,365 per site or \$40,730. The leak detection work for the tanks at Bay Shore will cost \$14,485 for a total of \$127,515. After applying the applicable overhead, the total amount to be budgeted is approximately \$150,000. We would like to transfer \$150,000 from line item 065 to line item 100.

This will not result in any increase to the FY2018 capital budget. If this meets with your approval, please place on the Board agenda for the September 2018 meeting.

Cc: J. Pokorny, P.E.
File

Approved by :



Joseph M. Pokorny, P.E.
Deputy CEO for Operations

9/12/18
Date

**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

I N T E R O F F I C E C O R R E S P O N D E N C E

TO: Chairman and Board Members
FROM: Jeffrey Szabo, Chief Executive Officer
DATE: September 6, 2018
SUBJECT: Request for Payment Plan - Chabbad at Stony Brook

I have received a request on behalf of Rabbi Chaim Grossbaum from the Chabbad at Stony Brook which is constructing a Jewish Community Center on Nichols Road in Stony Brook.

Rabbi Grossbaum is requesting a payment plan for the cost of connection for the Community Center's water service and fire lines. He also stated that the Chabbad has struggled financially to construct their Community Center and they are not able to sustain this cost upfront.

According to the New Service Department, the fees associated with installing the water service and fire lines, which includes an approximate cost for restoration, is \$57,018. The installment plan will amortize monthly over a ten (10) year period.

In February, 2018, the Board granted a similar request from the Central Islip Seventh-Day Adventist Church for their Fire Line System in the amount of \$8,013, to be paid within 60 months (5 years).



August 24, 2018

Executive Board
Suffolk County Water Authority
PO Box 38
Oakdale NY 11769

Dear Sir/Madam;

As I think for a moment to compose this letter it brings reflection on what we may take for granted in life. As essential as quality clean water is, not everyone in the world has it. It is not water alone that we take for granted yet so much of our beautiful community we simply accept with barely a thank you to the community, our parents and to G-d. Thank you executive members of SCWA for good clean water.

That said, I am writing to you regarding our synagogue construction project at 360 Nicolls Rd. East Setauket, which has been in different stages over the past 10 years. It's been a challenge to raise the funds to purchase the land and begin construction. Though we have been approved for a construction loan we can only use it responsibly to the extent we see fit to repay as agreed upon. The estimated Water Tap fee expense has surprised us. We did not expect \$57,000 to bring the water across Nichols Rd. to our Synagogue site.

Our synagogue is not membership-based. We are open to all and not restricted to only those that activate a membership or consider to contribute. We are actually serving the entire community whether Jewish or not as seen in our Friendship Circle which served all children with special needs. We are a community based organization dependent on charity and fundraising campaigns. We have been within the community since 1987. We have a synagogue in Lake Grove at 821 Hawkins Ave. We have a Rabbi on staff for the University with our home at 31 Mount Rd. in Stony Brook serving as a Home away from Home for students at SUNY Stony Brook. We have an additional three parsonages for our clergy staff members.

I share all this so that I may ask your review of the said work to be done at 360 Nichols Rd. East Setauket. Is it possible to review if \$57,000 will be needed to be bring the water over? And whatever the amount will be, may I ask of the executive committee to consider an extended payment plan of possibly 10 to 15 years to pay out the water fee? We are here to serve the community and would greatly appreciate any and all assistance the Suffolk County Water Authority can assist us with.

We surely do need it. I hope you will come visit the synagogue when it is completed (or before).

Thank you.

Respectfully yours and with sincere appreciation;

Rabbi Chaim Grossbaum

Cell 516-983-8672

RABBI CHAIM GROSSBAUM
Executive Director
SYNAGOGUE SERVICES

MRS. RIVKIE GROSSBAUM
Co-Director
TORAH TOTS PRESCHOOL

RABBI MOTTI GROSSBAUM
Director of Development
THE LIVING LEGACY
JDW CREW - CTEN
CHABAD MEN'S CLUB
JEWISH SUMMER FESTIVAL

MRS. CHAYA GROSSBAUM
General Administrator
CAMP GAN ISRAEL
SUMMER & WINTER

RABBI SHALOM B. COHEN
Director of Education
JEWISH LEARNING INSTITUTE
CHABAD HEBREW SCHOOL

MRS. CHANIE COHEN
Director of Programming
THE MERRIN - BIENEFELD
FRIENDSHIP CIRCLE
WOMEN'S CLUB
BAT MITZVAH CLUB

MRS. RIVKAH ITZHAKY
Executive Secretary

RABBI ADAM & ESTHER STEIN
Co-Directors
S.U.N.Y. STONY BROOK

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STEVEN ENGLEBRIGHT
4th Assembly District
Suffolk County

THE ASSEMBLY
STATE OF NEW YORK
ALBANY

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Committee on Environmental Conservation

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Education
Energy
Higher Education
Rules

COMMISSIONS
Science and Technology
Water Resource Needs of Long Island

MEMBER
Bi-State L.I. Sound Marine Resource Committee
N.Y.S. Biodiversity Research Institute

August 24, 2018

Jeffery Szabo, CEO
Suffolk County Water Authority
4060 Sunrise Hwy
Oakdale, NY 11769

Dear Mr. Szabo:

I have been contacted by Rabbi Chaim Grossbaum from the Chabad at Stony Brook which is constructing a Jewish Community Center on Nichols Road in Stony Brook. The Chabad at Stony Brook serves 400 families in the area and offers a variety of services to the community.


Rabbi Grossbaum has brought to my attention the \$57,018.00 cost of connection for the community center's water service and fire line. This sum is large to a non-profit congregation of faith which has struggled and sacrificed to cobble funds together to construct their center.

Would the Suffolk County Water Authority be able to make any cost adjustment for this beneficial organization which provides so much to our community?

Thank you for your consideration of this matter.

Sincerely,

**SUFFOLK COUNTY WATER AUTHORITY
INTEROFFICE MEMORANDUM**

TO: Jeffrey Szabo, Chief Executive Officer
FROM: Ty Fuller, Director of Strategic Initiatives 
DATE: September 12, 2018

SUBJECT: United States Geological Survey 5-Year Cooperative Funding Agreement

Attached is a copy of the work plan associated with the proposed five-year Cooperative Funding Agreement between the SCWA and the United States Geologic Survey (USGS) for the period October 1, 2018 through September 30, 2023.

In fiscal year 2018, the SCWA provided \$253,798 in cash payment to the USGS and \$211,345 in direct services in the form of rent at our Coram facility.

The proposed new five year funding agreement will start with a rent increase of 7.3% to reflect the currently negotiated rates based on a recent appraisal of the Coram facility. Thereafter the rent will increase 3% annually, as we do with our other leases in Coram. The Cash contribution would start at \$183,850 year 1, a decrease of 38% from the \$253,798 provided to the USGS in fiscal year 2018. By year 5 the cash contributions will increase to \$275,520 and total \$1,167,410 over the life of the agreement. The attached spreadsheet shows the yearly breakdown of the payments. It also shows that the USGS expects a flat annual Federal match of \$300,000.

Over the past 40 years of cooperative agreements the USGS has held their rates fairly steady (see attached rate analysis). Due to increasing federal budgetary constraints and inflationary pressures they could not continue to hold those rates steady.

The services provided by the USGS have proven invaluable over the years. They lend technical support to our hydrogeologists on a regular basis. They are also able to apply proprietary technologies and analytical methods, developed elsewhere in the country, to our groundwater resource challenges here in Suffolk County. This on-going Cooperative Water Program provides the long-term monitoring and scientific research needed to properly evaluate and manage the water resources underlying the county. We cannot adequately manage what we do not measure and monitor.


Some of the work they have completed for us under the current agreement includes:

1. Hydrologic Data Collection Network- 200+ observation wells, 42 water supply wells, 6 streamflow stations, 1 real time road salt monitoring station and 1 lake-stage gauge.

2. Emerging contaminants- data collected and analyzed for organic contaminants, including pharmaceuticals, hormones and wastewater indicators, down gradient from wastewater treatment facility discharge sites.
3. State of the Aquifer Report- A webpage was developed by the USGS that compiled published data from the hydrologic surveillance program. The page also included groundwater withdrawals from all major water suppliers on Long Island, population and land use showing extent of urbanization through maps and precipitation and recharge, analyzing annual precipitation and departure of Long term means. The site is visited approximately 500 to 1000 times per month and also includes public access to data and published reports associated with Long Island water resources.
4. Geophysical Surveys:
 - a. Radio-imaging tomography surveys were performed at:
 - i. Ackerly Pond in Southold
 - ii. Mill Lane in Southold
 - b. Time-Domain electro-magnetic geophysical surveys were conducted at:
 - i. College Rd in Farmingville
 - ii. Spring Close Hwy in Amagansett
 - c. Electromagnetic geophysical surveys were conducted at:
 - i. Stephen Hands Path in Sag Harbor
 - ii. Sound Ave in Jamesport
 - d. Electromagnetic Gradiometer surveys were conducted at:
 - i. Selden site
 - e. Analysis of over 60 contractor logs
5. Borehole Database:
 - a. Hydrogeologic data collected from 35 SCWA drilling sites
 - b. 43 legacy geophysical logs digitized for 23 sites
 - c. Logs formatted and uploaded into web-based tools for storage and retrieval of data
6. Aquifer Testing – Conducted at:
 - a. Laurel Lake in Cutchogue

We have worked diligently to tailor the work plan to SCWA's needs while pairing down the cost of services as much as possible. The funding request represents a decrease of \$386,000 from the original USGS cost proposal to the Authority in March 2018. We have also worked with internal audit to review past agreements and ensure more accountability in the future from the USGS. We will now meet on a quarterly basis with staff at the USGS along with having itemized breakdowns accompanying invoices, detailing specifics on tasks completed.

We respectfully request that you obtain Board approval to renew the existing five year agreement with the USGS at the funding levels down in the attached spreadsheet and subject to the approval of our legal Department. A copy of the previous agreement is also attached for your information.



SUFFOLK COUNTY WATER AUTHORITY
and
UNITED STATES GEOLOGICAL SURVEY
NEW YORK WATER SCIENCE CENTER

Workplan
for the period
October 1, 2018 to September 30, 2023

U.S. Department of the Interior, U.S. Geological Survey
New York Water Science Center—Coram Program Office

June 2018

SCOPE OF SERVICES

I. Hydrologic Surveillance and Analysis

The U.S. Geological Survey (USGS) currently operates and maintains a cooperative hydrologic-surveillance program with the Suffolk County Water Authority (SCWA) in Suffolk County, New York. The current funding agreement expires on September 30, 2018, and an extension is needed in order to continue this vital, long-term monitoring and research program that has existed between the USGS and the SCWA for more than 40 years.

In order to provide the information needed to properly monitor the water resources underlying Suffolk County, the USGS will continue to operate and maintain a long-term cooperative hydrologic-data-collection network with the SCWA. Water-level elevations will be collected throughout Suffolk County and parts of extreme eastern Nassau County at 22 observation wells equipped with continuous downhole water-level recorders, monthly at 76 non-instrumented observation wells, and annually at an additional 115 non-instrumented observation wells and 42 water-supply wells. Streamflow will be collected by the USGS at 6 streamflow stations equipped with continuous water-stage-gaging equipment, and measured twice per year at an additional 20 partial-record streamflow sites. Additionally, 1 wetlands-monitoring station at Laurel Lake will be operated, consisting of 3 real-time downhole water-level recorders, 1 real-time lake-stage gage, and 1 precipitation gage. See attachment 1 for more information.

II. Environmental & Hydrologic Investigations

Water-quality and quantity assessments of the groundwater reservoir in Suffolk County will continue, as per the below tasks that were developed in consultation with the SCWA.

A. Emerging Contaminants

The growing population on Long Island has led to changes in land use and density, and thus the level of wastewater treatment for communities has shifted. A granular activated carbon (GAC) filter has been added to groundwater treatment systems on most supply wells that have had contaminant issues for volatile organic compounds. However, little is known if these systems can also remove low-level pharmaceuticals

from the groundwater supply. The proposed 5-year study has two parts: 1) an analysis of SCWA data on raw and treated (finished) groundwater from selected wells for wastewater-indicator compounds including pharmaceuticals, and 2) new monitoring at a set of supply wells using the latest USGS lab methods for over 200 pharmaceuticals, personal care and domestic use products (PCDUs) (including artificial sweeteners and ibuprofen), and pesticides and their degradates (including fungicides and neonicotinoids). An assessment of the removal efficiencies of the GAC filter for pharmaceuticals as well as a continued evaluation of low-level pharmaceuticals, PCDUs, and pesticides will provide insight into the persistence and transport of these organic contaminants that are of increasing public concern. See attachment 2 for more information.

B. State of the Aquifer Webpage

In recent years, more and more people have become concerned about Long Island's supply of freshwater. Until recently, there was no comprehensive, island-wide resource that summarizes recent research related to the Island's aquifer system.

A webpage has been developed by the USGS that compiles published data from the hydrologic-surveillance program, in place since the mid-1970's, and various other USGS sources, and supplements this information with more recent seasonal and annual hydrologic data. This information and other USGS technical assistance are being provided to the SCWA to help them produce an easy to understand annual report that will provide a snapshot of the state of Long Island's aquifer system.

It is hoped that such resources will provide the information needed to inform the public on the current state of the aquifer so that sound water-management decisions can be made. See attachment 3 for more information.

C. Geophysical Surveys

Large variations in the hydrogeologic framework, extensive areas of saltwater intrusion, road-salt plumes, and increasing demands for potable drinking water on the North and South Forks of Suffolk County have complicated management of the fresh groundwater reservoir. Several public-supply wells in eastern Suffolk County have already been adversely affected by elevated concentrations of chloride due to the unique local hydrogeologic framework and the presence of previously undetected road-salt

plumes and saltwater-intrusion wedges in the subsurface. Exploratory drilling and test-hole sampling alone do not provide data on the extent of road-salt plumes and changes in groundwater salinity over time in response to pumping.

Ideally, before test drilling of a property is begun by the SCWA, and (or) a site is considered for purchase by the SCWA as a future production site, USGS surface-geophysical surveys such as the Time Domain Electromagnetic method (TDEM) should be completed to determine if conductive groundwater anomalies such as road salt or saltwater exist at the site. Borehole-geophysical logs collected at SCWA test boreholes should be formally analyzed by a USGS hydrologist soon after logging to ensure anomalies in hydrogeology or water quality are identified early in the evaluation of prospective SCWA properties. Those logs already field reviewed by a USGS hydrologist as part of the USGS Borehole Database program (outlined in task 5), will be further analyzed to delineate any subtle anomalies underlying the site. Currently, no surface-geophysical surveys are completed prior to test drilling. This research will address these issues.

Knowledge of the local hydrogeologic framework and location of conductive groundwater below and (or) adjacent to the groundwater-flow system at public-supply wells is crucial to the proper management of the resource by the SCWA. Proposed research that increases this knowledge will include:

1. Collection of surface-geophysical surveys (TDEM) at properties being considered for future SCWA production sites and at select existing production sites to fill in gaps and direct monitoring-well drilling.
2. Development of a network of PVC-cased observation wells at SCWA wellfields using existing SCWA observation wells and select (one site per year) new observation wells to be drilled by the SCWA. Monitoring the freshwater-saltwater interface using borehole EM logging of these PVC wells, at five selected wellfields in eastern Suffolk County (Montauk area and others) each year.
3. Monitoring and delineation of road-salt plumes and the saltwater-freshwater interface at up to five selected sites using EM logging to

determine temporal changes annually. Attempt one 2D EM tomographic survey during the study.

4. Formally analyze borehole geophysical logs from recently drilled test borings to determine potential anomalies due to conductive contaminant plumes or unusual hydrogeologic deposits as soon after logging as possible.

The results of the geophysical surveys will be provided to the SCWA as preliminary versions (for example, to inform evaluation of prospective SCWA properties), presented in bi-annual meetings with the SCWA, and an interpretative report summarizing the results of selected studies. See attachment 4 for more information.

D. Borehole Database

Borehole drilling and well-installation are costly procedures, and securing funding for new-well installation for the sake of research is often difficult. The SCWA maintains a large network of deep wells for public supply that is constantly being upgraded as water demands increase. During the drilling process, contractors record driller's logs and collect cores and, subsequently, often perform borehole-geophysical logging for determination of aquifer properties. However, although these data may suffice for selecting a screen zone, they are lacking in more detailed hydrologic information necessary for a better understanding of Suffolk County's hydrologic system. A comprehensive database documenting pertinent hydrologic information obtained from borehole drilling is needed.

The main objective will be to coordinate data-collection activities with the SCWA's drilling operations for the purpose of collecting, analyzing, updating and archiving hydrogeologic information. The database will provide the information needed to better assess and characterize the hydrogeology of aquifer systems throughout the County. This information will be used to determine altitudes of major hydrologic units penetrated by wells located throughout the County, and to facilitate developing and updating maps and sections of sub-surface hydrogeology. These objectives are to be met by the following:

1. Providing USGS hydrologist oversight at select test and production wells during drilling and (or) coring for up to one week at eight sites annually to maintain a geologist's log;
2. collecting, analyzing, and archiving sediment cores and sieve samples at specified intervals and (or) facies changes;
3. archiving hydrogeologic data (for example, geophysical logs, geologist logs, drillers logs, and core photographs) in a local electronic database;
4. georeferencing hydrogeologic data and maintain as a GIS layer;
5. digitally capturing a few (2–3) critical legacy geophysical paper logs annually with a large-format digitizing tablet and archiving the resulting electronic logs in the borehole database;
6. supplying new data that facilitates developing and updating hydrogeologic maps and sections;
7. archiving a few (3–5) geophysical logs per year into the NYWSC Log Archiver program for public dissemination on the interactive mapper (GeoLog Locator);
8. providing technical support for SCWA field hydrogeologist during drilling operations; and
9. preparing a brief (one-page) summary of the hydrogeologic data collected at each site for the SCWA.

See attachment 5 for more information.

E. Aquifer Testing

USGS regional framework characterizations have been used effectively in many studies to better understand groundwater movement as well as the transport of various kinds of contaminants. However, lack of framework accuracy, particularly at smaller scales, continues to cause problems that may involve: (1) sizing of pumps and other aspects of wellfield design and maintenance, (2) projection of local-scale water-level changes, and (3) projection of interactions with other hydrologic stresses. The objective of this study is to improve framework representations by implementing and analyzing continuous-recording observation wells at SCWA wellfields, in concert with the SCWA record of pumping and other regional USGS data. As necessary, the implications of

aquifer tests on such topics as safe aquifer yield, source-area delineation, the effects of changing patterns of water usage, and the effects of climate change are considered. See attachment 6 for more information.

Report Products:

The USGS will meet with SCWA officials quarterly to discuss project plans, progress, and significant results. For those projects that include an interpretive report as an end product, a technically acceptable draft review copy of the report will be delivered by the corresponding project end-date. Published reports will be delivered within 16 months after acceptance of the review draft by the SCWA.

Due Dates:

Where due dates are not specified, the work outlined in this workplan and (or) the attachments is expected to be complete by September 30, 2023.

Payment:

Payment to USGS for work outlined in this workplan will be invoiced quarterly, except where noted differently in the workplan. These invoices will include a general list of work tasks completed by USGS during the billing period. The SCWA will pay invoices as received, unless SCWA project managers indicate work to be done by USGS is significantly behind schedule. Concerns regarding delays should be communicated to appropriate staff and managers promptly. USGS and SCWA project managers will certify appropriate completion of all tasks annually. Delays that are not resolved at the end of the fiscal year may be addressed by revising the scope and costs of projects in the workplan by amendment.

Attachment 1

Continued Operation of a Cooperative Hydrologic-Surveillance Program in Suffolk County, New York

The U.S. Geological Survey (USGS) and Suffolk County Water Authority (SCWA) have had an ongoing hydrologic-surveillance program in place since the mid-1970's. This program, as part of the USGS's Cooperative Water Program, provides the long-term monitoring and scientific research needed to properly evaluate and manage the water resources underlying Suffolk County, New York. The current cooperative agreement expires on September 30, 2018, and an extension is needed to continue this vital, long-term monitoring and research program that has existed between the USGS and SCWA for more than 40 years.

An integral part of this program is the cooperative, long-term hydrologic-surveillance network that the USGS operates and maintains in Suffolk County. Besides providing pertinent and timely information on hydrologic conditions in Suffolk County, this network is also an integral part of a larger regional network funded through the USGS cooperative program with many other agencies and stakeholders.

The USGS monitoring network varies in extent and data-collection frequency from: (1) annual-synoptic, which provides data needed for base-line statistical studies and groundwater-model calibration; (2) monthly, which in addition to the above, provides data needed for water-availability and saltwater-intrusion studies, groundwater/surface-water-interaction studies, seasonal-trend analysis, and drought and flood monitoring; and (3) continuous-recording or real-time, which provides additional data needed for short-term trend analysis, recharge and tidal variation studies, local groundwater-withdrawal monitoring, and real-time drought and flood monitoring.

To provide the information needed to properly monitor the water resources underlying Suffolk County, the USGS will continue to operate and maintain a long-term cooperative hydrologic-data-collection network with the SCWA. Water-level elevations will be collected throughout Suffolk County and parts of extreme eastern Nassau County at 22 observation wells equipped with continuous down-hole water-level recorders; 15 equipped with real-time telemetry, monthly at 76 non-instrumented observation wells,

and annually at an additional 115 non-instrumented observation wells and 42 water-supply wells. Annual measurements will coincide with the USGS island-wide groundwater synoptic conducted annually on Long Island. This USGS synoptic entails the measurement of over 500 wells, streams, and lakes across southeastern New York primarily during a one to two week period in April. This annual data-collection effort provides a “snapshot” of hydrologic conditions that the USGS uses to assess regional changes in aquifer storage and to update its island-wide water-level and depth-to-water maps.

Continuous-record streamflow will be collected by the USGS at 6 real-time telemetered streamflow stations – Cold Spring Brook, Peconic River, Swan River, Carmans River, Connetquot River, and Sampawams Creek – equipped with continuous water-stage-gaging equipment. Additionally, partial-record streamflow will be measured two times per year (spring and fall) at 20 additional streams across Suffolk County.

The USGS will operate a wetlands-monitoring station at Laurel Lake that consists of 2 recently instrumented real-time wells located near the wetlands at the SCWA Laurel Lake wellfield, the long-term monitoring well S6558.2 at Laurel, the real-time lake-level gage at Laurel Lake near Mattituck, and the real-time precipitation gage at Sag Harbor. These data will provide the SCWA with the information needed to address any concerns that the New York State Department of Environmental Conservation may have about detrimental effects to the local wetlands caused by groundwater pumping at the wellfield.

USGS data collected for the cooperative program will be checked, reviewed, and entered into the USGS NWIS database, and available for display and retrieval from NWISWeb at <http://waterdata.usgs.gov/nwis>. Additionally, USGS groundwater, streamflow, and water-quality data are available through the USGS Groundwater Watch (<http://groundwaterwatch.usgs.gov>), USGS WaterWatch (<http://waterwatch.usgs.gov>), and USGS Water Quality Watch (<http://waterwatch.usgs.gov/wqwatch>) websites.

Hydrologic-conditions data for streamflow and groundwater levels in New York State are updated monthly and available from <http://ny.water.usgs.gov/infodata/conditions.html>, and resources for local and regional droughts and floods are available from <http://ny.water.usgs.gov/projects/duration> and <http://ny.water.usgs.gov/flood>.

Attachments for SCWA/USGS Workplan 2019-23

Collected data will also be disseminated by the USGS in a variety of published formats, including through NWISWeb, other digital web-based products, and online data reports and water-level maps. Data are also published every few years in a series of water-level and depth-to-water maps for Long Island, and intermittently in other USGS technical and data reports.

Continued operation of a cooperative hydrologic-data-collection program with the SCWA in Suffolk County will: (1) provide scientists and water managers with a seamless, island-wide data set of representative hydrologic conditions using nationally consistent data-collection techniques; (2) promote the timely exchange of scientific information and research between the USGS, State, County, local agencies, and local water suppliers and managers; (3) allow for the production and revision of island-wide water-level, depth-to-water, and hydrogeologic maps by the USGS; (4) provide the data needed for regional and National hydrologic studies; (5) allow for the prompt dissemination of USGS collected data online on NWISWeb; and (6) in times of drought, provide the data needed to properly manage the withdrawal of water from the underlying aquifer system. These continuous historical-data sets would also be available for statistical analyses to improve our knowledge and understanding of the long- and short-term changes that occur in the groundwater system when various natural and man-induced stresses are applied, and are essential for assessing future management and development scenarios for region's water resources.

Item	2019	2020	2021	2022	2023	Total
Hydrologic Surveillance and Analysis Costs:						
<i>(Number in parenthesis indicates number of sites)</i>						
Groundwater Monitoring Network						
Continuous groundwater level (22)	\$120,000	\$126,490	\$132,520	\$136,490	\$140,590	\$656,090
Monthly groundwater level (76)	\$124,280	\$131,250	\$137,690	\$141,820	\$146,080	\$681,120
Annual groundwater level (157)	\$64,580	\$68,200	\$71,540	\$73,690	\$75,900	\$353,910
Total:	\$308,860	\$325,940	\$341,750	\$352,000	\$362,570	\$1,691,120
Surface-Water Monitoring Network						
Continuous stage/discharge (6)	\$98,750	\$104,020	\$108,920	\$112,210	\$115,570	\$539,470
Miscellaneous bi-annual discharge (20)	\$31,820	\$33,610	\$35,260	\$36,320	\$37,410	\$174,420
Total:	\$130,570	\$137,630	\$144,180	\$148,530	\$152,980	\$713,890
Real-Time Wetlands Monitoring (Laurel Lake)						
Continuous groundwater level (3)	\$17,160	\$18,000	\$18,820	\$19,380	\$19,960	\$93,320
Continuous lake level (1)	\$6,870	\$7,200	\$7,500	\$7,720	\$7,950	\$37,240
Continuous precipitation (1)	\$5,990	\$6,260	\$6,520	\$6,710	\$6,910	\$32,390
Total:	\$30,020	\$31,460	\$32,840	\$33,810	\$34,820	\$162,950
Network Monitoring Total	\$469,450	\$495,030	\$518,770	\$534,340	\$550,370	\$2,567,960

Attachment 2

Assessing Occurrence and Persistence of Emerging Contaminants in Groundwater, Suffolk County, New York

Recent data collected by the USGS in cooperation with the SCWA over the past decade has shown that land-use practices in urbanized areas and an increased demand on supply wells can result in transport of contaminants loaded at the surface to supply wells faster than natural hydraulic processes would otherwise allow (Ayotte and others, 2011). The growing population on Long Island has led to changes in land use and density, and thus level of wastewater treatment for many communities has shifted. The Suffolk County Water Authority (SCWA)—as well as other Long Island water purveyors—rely on only a few types of systems to remove nitrogen and other contaminants of concern (such as volatile organic compounds [VOCs], iron, nitrate, and chromium) from the groundwater supply before delivery to the public. However, little is known if these systems can also remove low-level pharmaceuticals from the groundwater supply. The proposed five-year study would: 1) provide the means to evaluate these systems in the context of recently collected USGS and SCWA data by analyzing raw and treated (finished) water from selected wells for wastewater-indicator compounds (including pharmaceuticals), and 2) new monitoring at a set of supply wells using the latest USGS lab methods for over 150 additional pharmaceuticals and personal care and domestic use products (including artificial sweeteners and ibuprofen) and over 200 current-use pesticides and their degradates, most of which are not currently analyzed by the SCWA, in sewer and agricultural areas. These new data would provide additional context for the quality of water in areas where discharge to groundwater is not common (that is, from centralized wastewater treatment) and where contaminants of interest are related to agricultural practices, as well as insight into the persistence of organic contaminants that are of increasing public concern.

The SCWA has been monitoring contaminants of emerging concern (CECs) associated with wastewater in raw and finished groundwater at their supply wells for the last 10 years. Most supply wells that have had contaminant issues have been outfitted with a granular activated carbon (GAC) filter. Some of these wells are in densely

populated areas that have a range of wastewater disposal methods, from block cesspool to decentralized onsite wastewater treatment systems, which typically discharge to groundwater. Contaminants associated with wastewater disposal systems are eventually pulled into supply well capture zones through natural groundwater flow patterns, pumpage, and other factors. Through monitoring, the SCWA has noticed variability in detection frequency and concentration of pharmaceuticals between raw and finished well water samples. The USGS proposes running statistical analyses on the SCWA data (and USGS data when available) to describe the GAC removal efficiency of pharmaceuticals, trends in the removal efficiency over the duration of use of the in-place GAC filter, and any long-term detection trends in the data. Results from this effort would be detailed in a report to the SCWA. These analyses will be useful to the SCWA (and other water purveyors and groundwater resource managers) to better understand the effectiveness of current wastewater and groundwater treatment management practices, as well as the persistence of wastewater contaminants through current GAC filtration systems.

Supply wells selected for this study are inferred to be along the path of groundwater flow down-gradient from wastewater treatment facility discharge sites (commercial decentralized systems or dense residential onsite systems). SCWA raw and finished (water that has undergone a filtration process and has not been chlorinated) well water data will be used for analysis. Raw water is water that was collected at the head-of-pump spigot, prior to any filtration or treatment system. Finished samples will be collected after groundwater has undergone the targeted treatment system (for example, GAC, advanced oxidation process[AOP], or nitrate removal). The finished groundwater sample will be from the same production well as the raw water was collected prior to being blended with water from other pumps. The finished groundwater sample will be a representative sample of the raw water that was sampled from the same well. This may mean the finished groundwater sample is collected hours or days, or however long the filtration process typically takes to complete, after the initial raw water sample.

Additional data necessary for the data analysis will include:

- time supply well started pumping;
- how long the pump was running before the raw sample was collected;

- the length of time it typically takes raw water to complete the filtration process (collection time of finished water sample).

Wells selected for analysis will require data related to the system to be available from at least three samples collected over the life-span of the filter—shortly after the in-place filtration system was serviced, halfway through the expected life span of the filtration system(s), and prior to the next filtration system service. This approach is crucial to insuring that the removal efficiency of emerging contaminants is documented over the life-expectancy of the filter. Each sample will be a ‘paired sample,’ that is a raw water and a finished water sample.

Additional samples may also be collected after a full review of the SCWA data to address any potential voids in the dataset. These samples could be added samples to complete a statistically relevant analysis or for added quality assurance and quality control (QA/QC) purposes. If no additional data are needed for the study, the budgeted samples could be used to evaluate new USGS pharmaceutical analyses (part two of proposed five-year study). For example, the USGS laboratory has developed a method to analyze for over 150 additional pharmaceuticals (Appendix X).

The USGS will coordinate with the SCWA laboratory to obtain data for statistical analysis (including, but not limited to, nutrients [nitrogen and phosphorus species], major ions, metals, and organic [pharmaceutical] contaminants) from the selected supply wells. These data shall include raw water, finished water, QA/QC data, and method performance results from the following SCWA laboratory methods: IC analysis, ICP mass spec analysis, ICP mass spec analysis (M&W), EPA Method 524.2, EPA Method 524.2 analysis, QUART analysis, and EPA Method 537. Additional laboratory results may be requested for research methods and will be decided upon in consultation with SCWA. Quality assurance and quality control data, SCWA laboratory method performance data (such as reporting and minimum detection limits), and analyte lists for each method through time, will also be evaluated for use with some statistical assessments.

Should funds budgeted for USGS to collect and analyze additional samples to fill gaps in SCWA data go unused, funds will be used to enhance the data collection effort during the second part of this study. Samples will be collected from up to four supply

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wells each year (Federal fiscal year [FFY] 2021-23) and submitted for analysis using the latest USGS pharmaceutical and pesticide methods. Additional QA/QC samples to be collected and submitted will include at least one equipment blank and one sample replicate. Other QA/QC samples may include laboratory blanks, replicates, and spikes.

Part two of the five-year proposed study would start during the third year (FFY 2021). The USGS, in consultation with the SCWA, would begin a new round of sampling for CECs using the latest USGS laboratory method for over 150 additional pharmaceuticals (Appendix X) and for a suite of over 200 current- and historic-use pesticides (including fungicides and neonicotinoids, appendix XY) at select supply wells in areas that are comprised of a higher percentage of sewerage, agriculture, and (or) at monitoring wells or hand-driven piezometers within the protected boundaries of the Pine Barrens Region. This portion of the study would provide data from the advanced analytics developed by USGS laboratories, which can identify organic contaminants at the parts-per-trillion level. Detection of these compounds in groundwater at this level provides early warning to water suppliers about potential contamination issues and informs decisions about well-head protection. These data can also be used in conjunction with nitrogen and primary-pollutant data collected by the SCWA to help better understand sources to and geochemical changes within the aquifers. Additionally, these data would be useful for future SCWA laboratory method development and keeps the SCWA on the forefront of emerging contaminant studies.

Pharmaceutical data from the proposed study, as well as data collected under the current USGS/SCWA cooperative study (outlined in the FFY 2014-18 workplan), will also be used to develop a complex mixtures analysis tool to identify septic contribution and the degree of influence to supply well capture zones. The USGS, in cooperation with the SCDHS, is developing a complex mixtures library for wastewater compounds at select facilities that use a decentralized wastewater treatment system which discharges to groundwater. Data from the USGS/SCWA studies analyzed along with the latest groundwater-flow models can provide a better understanding of source areas of CEC contamination and the transport of CECs to supply well capture zones, thereby providing groundwater resource managers additional information for evaluating contaminant contributions. Collectively, interpretation of these data will help better infer sources to

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the select supply wells and be used to provide a more robust assessment of contaminants currently and soon-to-be affecting the groundwater resources in Suffolk County.

Project meetings will be scheduled up to three times a year for the duration of the five-year program. These meetings will serve as chance for the USGS to update the SCWA on the progress of the project and to address any new questions or concerns about the data analysis. This will also allow an opportunity to review additional or new data research needs for the study, such as ancillary well data, GAC filter data, laboratory data, and new sample collection analysis either by SCWA or USGS.

The statistical analysis of SCWA pharmaceutical data on the removal efficiency of GAC filtration systems installed on supply wells will be summarized in a USGS Scientific Investigations Report or journal article. A peer-reviewed draft copy of the report will be made available to the SCWA by the end of the third year (FFY 2021). Data provided to the USGS by the SCWA will be made publicly available through USGS ScienceBase Catalog and tabulated as supplemental information in the final report. All data collected by the USGS will be available to the public on the USGS NWISWeb following laboratory transmittal and verification.

Water-Quality Activities by Federal Fiscal Year

	2019	2020	2021	2022	2023
Data analysis of SCWA data	X	X	x		
Data Review and database management	X	X	X	X	x
Sample collection			X	X	x
Project meetings/updates Up to 3 a year	x	X	X	x	x
Data publication			x		x

Water-Quality Budget by Federal Fiscal Year

	2019	2020	2021	2022	2023
Salary	65,000	65,000	55,900	54,200	54,600
Supplies and analytics			9,100	10,800	10,400

Total	65,000	65,000	65,000	65,000	65,000
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References

Ayotte, J.D., Szabo, Zoltan, Focazio, M.J., and Eberts, S.M., 2011, Effects of human-induced alteration of groundwater flow on concentrations of naturally-occurring trace elements at water-supply well: Applied Geochemistry, 26, p.747-762.

Attachment 3

State of the Aquifer Webpage

In recent years, more and more people have become concerned about Long Island's supply of freshwater. Until recently, there was no comprehensive, island-wide resource that summarizes recent USGS research related to the Island's aquifer system.

Since the launch of the “State of the Aquifer, Long Island, New York” (SOTA) webpage (https://www.usgs.gov/centers/ny-water/science/state-aquifer-long-island-new-york?qt-science_center_objects=10#qt-science_center_objects) in October 2014, new information has become available. The USGS will compile new published data from the hydrologic-surveillance program, and various other USGS sources, and supplement this information with more recent seasonal and annual hydrologic data. This information and other USGS technical assistance are being provided to the SCWA to help them produce an easy to understand, updated report that will provide a snapshot of the state of Long Island's aquifer system.

Updates to the SOTA webpage will be made that maintain or enhance current information on the following content:

1. Hydrogeologic framework, hydrologic cycle, and general groundwater-flow information.
2. Population and landuse showing the extent of urbanization through maps and figures using current landuse/landcover and census data.
3. Precipitation and recharge analyzing annual precipitation and departure from long-term means represented as figures and tables and describing aquifer-recharge zones.
4. Groundwater withdrawals showing density of supply wells, estimates of withdrawals, location of sewer districts, and the effects of withdrawals and sewerage on the aquifer system.
5. Water quality and some general water-chemistry information represented as figures and/or graphs and possibly emerging contaminants in groundwater and/or areas of saltwater movement. Also using maps to

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show locations of wastewater treatment plants that discharge to groundwater and areas served by residential septic systems.

6. The groundwater system represented as figures and tables showing seasonal and annual changes using selected groundwater and streamflow monitoring stations.
7. References.

It is hoped that such resources will provide the information needed to inform the public on the current state of the aquifer so that sound water-management decisions can be made.

Task	Fiscal Year (October 1 to September 30)					Total
	2019	2020	2021	2022	2023	
Compile and synthesis hydrologic data						
Calendar years 2018-19	\$24,090	--	--	--	--	\$24,090
Calendar years 2019-20	--	\$24,810	--	--	--	\$24,810
Calendar years 2020-21	--	--	\$25,550	--	--	\$25,550
Calendar years 2021-22	--	--	--	\$26,320	--	\$26,320
Calendar years 2022-23	--	--	--	--	\$27,110	\$27,110
Total Task	\$24,090	\$24,810	\$25,550	\$26,320	\$27,110	\$127,880

Attachment 4

Application of Advanced Surface- and Borehole-Geophysical Techniques to Delineate the Hydrogeology and Extent of Saltwater at Public-Supply Facilities in Eastern Suffolk County, New York

Large variations in the hydrogeologic framework, extensive areas of saltwater intrusion, and road-salt plumes, in concert with increasing demands for potable drinking water on the North and South Forks of Suffolk County have complicated management of the fresh groundwater reservoir. Several public-supply wells in eastern Suffolk County have already been adversely affected by elevated concentrations of chloride due to the unique local hydrogeology and the presence of previously undetected road-salt plumes and a saltwater-freshwater interface in the subsurface. Exploratory drilling and test-hole sampling alone do not provide data on the extent of road-salt plumes and changes in groundwater salinity over time in response to pumping.

Ideally, before test drilling of a property is begun by the SCWA, and (or) a site is considered for purchase by the SCWA as a future production site, USGS surface-geophysical surveys such as the Time Domain Electromagnetic method (TDEM) should be completed to determine if conductive groundwater anomalies such as road salt or saltwater exist at the site (Zhody and others, 1974). Borehole-geophysical logs collected at SCWA test boreholes should be formally analyzed by a USGS hydrologist soon after logging to ensure anomalies in hydrogeology or water quality are identified early in the evaluation of prospective SCWA properties (for example, Keys and MacCary, 1971). Those logs already field reviewed by a USGS hydrologist as part of the USGS Borehole Database program (outlined in attachment 5), will be further analyzed to delineate any subtle anomalies underlying the site. Currently, no surface-geophysical surveys are completed prior to test drilling. This research will address these issues.

The USGS will use advanced surface- and borehole-geophysical techniques to delineate the hydrogeologic framework, extent of road-salt plumes, and saltwater-freshwater interface at selected public-supply wellfields. Surface-geophysical techniques will be used to delineate the extent of saltwater wedges, road-salt plumes, and the hydrogeologic framework at up to five sites per year. Additionally, a network of PVC

cased observation wells will be developed with assistance from the SCWA to monitor changes in the saltwater-freshwater interface and road-salt plumes using Electromagnetic (EM) logs at production-well sites. A recent study by the USGS to delineate saltwater intrusion on Long Island introduced and quantified the successful use of EM-logging techniques (Stumm and Como, 2017).

Borehole-geophysical logging of PVC observation wells will be completed at five SCWA observation wells each year to determine the extent and concentration of road-salt plumes or the freshwater-saltwater interface beneath or adjacent to public-supply wells. Previously EM logged wells will be analyzed to determine the rate of changes in chloride concentration and extent over time using recently published equations relating EM-log response to chloride concentration (Stumm and Como, 2017). Borehole tomographic 2D and possibly 3D images of road-salt plumes and freshwater-saltwater interfaces between PVC observation wells will be attempted at one site during the study. Proposed research will specifically include:

1. Collection of surface geophysical surveys (TDEM) at properties being considered for future SCWA production sites and at select existing SCWA production sites to delineate and monitor conductive plumes, saltwater interfaces, and direct observation-well drilling. Up to five TDEM soundings per year will be collected at current and future production sites.
2. Development of a network of PVC-cased observation wells at SCWA wellfields using existing SCWA observation wells. Since this network is lacking at critical sites, the USGS and the SCWA together will select at least one new observation well-drilling location each year to be drilled by the SCWA. At newly purchased properties, if TDEM surveying indicates a conductive-groundwater anomaly the SCWA will drill a mud-rotary PVC-cased observation well at that site. This site will be drilled using the mud-rotary method and filter-press samples and geophysical logs will be collected. Current production well sites with chloride issues may also be targeted for mud-rotary drilled PVC cased observation well drilling.
3. Monitoring of the freshwater-saltwater interface using borehole EM logging of the newly created PVC-cased observation-well network at up to

five locations each year in eastern Suffolk County (Montauk area and others). These wells will be used to compare older EM logs collected at these sites to determine temporal changes in chloride concentration. Once during the study, a SCWA production site will have 2D EM borehole tomographic survey (CAT scans) between PVC cased wells attempted as a research project. This technique needs further development to see its full potential as a monitoring tool at production-well sites.

4. Analyze borehole-geophysical logs from recently drilled test borings to determine potential anomalies due to conductive-contaminant plumes or unusual hydrogeologic deposits. The SCWA will direct its contractor to send copies of all open borehole geophysical logs to the USGS for geophysical analysis. At sites where logs are already being field reviewed by a USGS hydrologist as part of the Borehole Database program (attachment 5), the logs will be further reviewed at the office to delineate any subtle anomalies underlying the site. The USGS will analyze the logs provided by SCWA and provide a preliminary analysis as soon as possible after receiving these logs.

The surface techniques will include TDEM surveying, and possibly Magnetotelluric surveying (deep resistivity mapping) or 2D-resistivity surveying. Borehole-geophysical methods may include gamma, spontaneous-potential, single-point resistance, Long-Medium-Short Normal Resistivity, Electromagnetic Induction, and Magnetic Susceptibility dependent upon available open or PVC-cased boreholes.

As the Nation's premier earth sciences agency, the USGS applies existing and emerging technologies to develop new methods of assessing geologic and hydrologic conditions. The proposed investigation will improve knowledge of the regional hydrologic system, and advance the discipline of surface- and borehole-geophysical analyses. The results of the geophysical surveys will be presented in bi-annual briefings to the SCWA, and an interpretative report summarizing the results of this research will be published by the project end date.

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Task	Fiscal Year (October 1 to September 30)					Total
	2019	2020	2021	2022	2023	
1. Five TDEM surveys	35,370	36,430	37,530	38,650	39,810	187,790
2. Develop and Monitor Borehole Network	14,370	14,800	15,250	15,700	16,170	76,290
3. Analyze Borehole Geophysical Logs Test Sites	5,920	6,100	6,270	6,460	6,650	31,400
4. Vehicles, Supplies, Equipment, Shipping, Misc.	10,950	10,960	10,980	11,000	11,020	54,910
Total Task	66,610	68,290	70,030	71,810	73,650	350,390

Selected References

- Keys, W.S., and L.M. MacCary, 1971, Application of Borehole Geophysics to Water-Resources Investigations: U.S. Geological Survey Techniques of Water Resources Investigations, Book 2, Chapter E1, 126 p.
- Stumm, Frederick, and Como, Michael, 2017, Delineation of Salt Water Intrusion Through Use of Electromagnetic-Induction Logging: A Case Study in Southern Manhattan Island, New York: Journal Water, 18p.
- Zhody, A.A.R., and others, 1974, Application of Surface Geophysics to Ground-Water Investigations: U.S. Geological Survey Techniques of Water Resources Investigations, Book 2, Chapter D1, 116 p.

Attachment 5

Documenting Hydrogeologic Information Obtained from Deep-Borehole Drilling in Suffolk County, New York

Borehole drilling and well-installation are costly procedures, and securing funding for new well installation for the sake of research is often difficult. The SCWA maintains a large network of deep wells for public supply that is constantly being upgraded as water demands increase. During the drilling process, contractors record drillers' logs and collect cores and, subsequently, often perform borehole-geophysical logging for determination of aquifer properties. However, although these data may suffice for selecting a screen zone, they are lacking in more detailed hydrologic information necessary for a better understanding of Suffolk County's hydrologic system. A comprehensive database documenting pertinent hydrologic information obtained from borehole drilling is needed.

The main objective will be to coordinate data-collection activities with the SCWA's drilling operations for the purpose of collecting, analyzing, updating, and archiving hydrogeologic information. The database will provide the information needed to better assess and characterize the hydrogeology of aquifer systems throughout the County. This information will be used to determine altitudes of major hydrologic units penetrated by wells located throughout the County, and to facilitate developing and updating maps and sections of sub-surface hydrogeology. These objectives are to be met by the following:

1. Providing USGS hydrologist oversight at select test and production wells during drilling and (or) coring for up to one week at eight sites annually to maintain a geologist's log;
2. collecting, analyzing, and archiving sediment cores and sieve samples at specified intervals and (or) facies changes;
3. archiving hydrogeologic data (for example, geophysical logs, geologist logs, drillers logs, and core photographs) in a local electronic database;
4. georeferencing hydrogeologic data and maintain as a GIS layer;

5. digitally capturing a few (2–3) critical legacy geophysical paper logs annually with a large-format digitizing tablet and archiving the resulting electronic logs in the borehole database;
6. supplying new data that facilitates developing and updating hydrogeologic maps and sections;
7. archiving a few (3–5) geophysical logs per year into the NYWSC Log Archiver program for dissemination on the interactive mapper (GeoLog Locator);
8. providing technical support for SCWA field hydrogeologist during drilling operations; and
9. preparing a brief (one-page) summary of the hydrogeologic data collected at each site for the SCWA.

Coordinating with the SCWA’s drilling operations will allow for cost-effective hydrologic-data collection. Data evaluation by an on-site hydrologist will help provide information that can be used to define facies boundaries and zones with the potential to have the greatest yields. Electronic and GIS archives of hydrogeologic data (and the personnel to interpret the data) will be invaluable in understanding the County-wide and site-specific hydrogeology for siting future production-well locations, and will allow for more accurate definition of hydrogeologic boundaries and map generation.

¹ Objective number	Fiscal Year (October 1 to September 30)					Total
	2019	2020	2021	2022	2023	
1	\$14,900	\$16,380	\$17,860	\$19,340	\$20,830	\$89,310
2	\$12,190	\$13,400	\$14,610	\$15,830	\$17,040	\$73,070
3	\$2,030	\$2,230	\$2,440	\$2,640	\$2,840	\$12,180
4	\$2,710	\$2,980	\$3,250	\$3,520	\$3,790	\$16,250
5	\$3,390	\$3,720	\$4,060	\$4,400	\$4,730	\$20,300
6	\$3,390	\$3,720	\$4,060	\$4,400	\$4,730	\$20,300
7	\$16,930	\$18,620	\$20,300	\$21,980	\$23,670	\$101,500
8	\$5,420	\$5,960	\$6,500	\$7,030	\$7,570	\$32,480
9	\$6,770	\$7,450	\$8,120	\$8,790	\$9,470	\$40,600
² Total	\$67,730	\$74,460	\$81,190	\$87,920	\$94,660	\$405,960

¹ See project objectives in attachment 5 above.

² Total may not equal the sum of values because of rounding.

Attachment 6

Aquifer Testing

USGS regional framework characterizations have been used effectively in many studies to better understand groundwater movement as well as the transport of various kinds of contaminants. However, lack of framework accuracy, particularly at smaller scales, continues to cause problems that may involve: (1) sizing of pumps and other aspects of wellfield design and maintenance, (2) projection of local-scale water-level changes, and (3) projection of interactions with other hydrologic stresses. The objective of this study is to improve framework representations by implementing and analyzing continuous-recording observation wells at SCWA wellfields, in concert with the SCWA record of pumping and other regional USGS data. As necessary, the implications of aquifer tests on such topics as safe aquifer yield, source-area delineation, the effects of changing patterns of water usage, and the effects of climate change are considered.

The approach shall meet or exceed the pumping test procedures given by NYSDEC at: <http://www.dec.ny.gov/lands/86950.html>. Aquifer tests will also be approved by the USGS and archived as per Office of Ground Water Technical Memorandum 2009.01 (<http://water.usgs.gov/admin/memo/GW/gw09.01.html>). Data, analyses, and aquifer-test reports are stored in the aquifer-test archive of the USGS New York Water Science Center. Aquifer testing will be performed for one wellfield annually.

Task	Fiscal Year (October 1 to September 30)					Total
	2019	2020	2021	2022	2023	
Preparation						
Recorder rental	\$500	\$515	\$530	\$546	\$563	\$2,654
Research SCWA paper file	\$1,000	\$1,030	\$1,061	\$1,092	\$1,125	\$5,309
Installation of recorders	\$1,000	\$1,030	\$1,061	\$1,092	\$1,125	\$5,309
Planning of pumping schedule	\$1,000	\$1,030	\$1,061	\$1,092	\$1,125	\$5,309
Trips onsite during test	\$1,000	\$1,030	\$1,061	\$1,092	\$1,125	\$5,309
Total Preparation	\$4,500	\$4,635	\$4,774	\$4,916	\$5,063	\$23,888
Analysis						
Research meteorological data	\$500	\$515	\$530	\$546	\$563	\$2,654
Research hydrogeologic framework	\$2,230	\$2,297	\$2,366	\$2,436	\$2,509	\$11,838
Mathematical modeling	\$8,000	\$8,239	\$8,487	\$8,740	\$9,002	\$42,468
Write aquifer test archive	\$2,000	\$2,060	\$2,122	\$2,185	\$2,250	\$10,617
Presentation of results	\$500	\$515	\$530	\$546	\$563	\$2,654
Total Analysis	\$13,230	\$13,625	\$14,036	\$14,454	\$14,887	\$70,232
Total Task	\$17,730	\$18,260	\$18,810	\$19,370	\$19,950	\$94,120

Program	Fiscal Year (October 1 to September 30)				Total
	2019	2020	2021	2022	
I. Hydrologic Surveillance and Analysis (HSA)					
Groundwater Monitoring Network	\$308,860	\$325,940	\$341,750	\$352,000	\$1,691,120
Surface-Water Monitoring Network	\$130,570	\$137,630	\$144,180	\$148,530	\$713,890
Real-time wetlands monitoring (Laurel Lake)	\$30,020	\$31,460	\$32,840	\$33,810	\$162,950
Total HSA	\$469,450	\$495,030	\$518,770	\$534,340	\$2,567,960
II. Environmental & Hydrologic Investigations (EHI)					
A. Emerging Contaminants	\$65,000	\$65,000	\$65,000	\$65,000	\$325,000
B. State of the Aquifer Webpage	\$24,090	\$24,810	\$25,550	\$26,320	\$127,880
C. Geophysical Surveys	\$66,610	\$68,290	\$70,030	\$71,810	\$350,390
D. Borehole Database	\$67,730	\$74,460	\$81,190	\$87,920	\$405,960
E. Aquifer Testing	\$17,730	\$18,260	\$18,810	\$19,370	\$94,120
Total EHI	\$241,160	\$250,820	\$260,580	\$270,420	\$1,303,350
Total Program	\$710,610	\$745,850	\$779,350	\$804,760	\$3,871,310
Funding Source					
SCWA Cash	\$183,850	\$212,290	\$238,780	\$256,970	\$1,167,410
SCWA Services (Coram Facility Rent)	\$226,760	\$233,560	\$240,570	\$247,790	\$1,203,900
SCWA Total	\$410,610	\$445,850	\$479,350	\$504,760	\$2,371,310
Expected USGS Federal Match, dollars	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000
Expected USGS Federal Match, percent	42%	40%	38%	37%	36%
Total Funding	\$710,610	\$745,850	\$779,350	\$804,760	\$3,871,310

USGS Historic Costs

SCWA/USGS Agreement				
Fiscal Year	Cash	Services	Total	% Change
1978	\$105,000	\$15,000	\$120,000	
1979	\$105,000	\$20,000	\$125,000	4.0%
1980	\$106,250	\$25,000	\$131,250	4.8%
1981	\$115,900	\$26,300	\$142,200	7.7%
1982	\$125,650	\$29,300	\$154,950	8.2%
1983	\$145,450	\$29,300	\$174,750	11.3%
1984	\$144,950	\$29,300	\$174,250	-0.3%
1985	\$145,000	\$35,000	\$180,000	3.2%
1986	\$130,000	\$0	\$130,000	-38.5%
1987	\$145,000	\$0	\$145,000	10.3%
1988	\$175,000	\$0	\$175,000	17.1%
1989	\$180,000	\$0	\$180,000	2.8%
1990	\$240,000	\$15,000	\$255,000	29.4%
1991	\$200,000	\$15,000	\$215,000	-18.6%
1992	\$190,500	\$15,000	\$205,500	-4.6%
1993	\$199,500	\$10,000	\$209,500	1.9%
1994	\$100,000	\$155,000	\$255,000	17.8%
1995	\$106,666	\$112,280	\$218,946	-16.5%
1996	\$106,666	\$112,280	\$218,946	0.0%
1997	\$106,666	\$112,280	\$218,946	0.0%
1998	\$106,666	\$112,280	\$218,946	0.0%
1999	\$125,000	\$152,280	\$277,280	21.0%
2000	\$97,324	\$179,956	\$277,280	0.0%
2001	\$97,324	\$179,956	\$277,280	0.0%
2002	\$111,162	\$179,956	\$291,118	4.8%
2003	\$111,162	\$179,956	\$291,118	0.0%
2004	\$114,223	\$187,777	\$302,000	3.6%
2005	\$114,223	\$187,777	\$302,000	0.0%
2006	\$114,223	\$187,777	\$302,000	0.0%
2007	\$114,223	\$187,777	\$302,000	0.0%
2008	\$114,223	\$187,777	\$302,000	0.0%
2009	\$108,323	\$187,777	\$296,100	-2.0%
2010	\$111,828	\$187,777	\$299,605	1.2%
2011	\$111,582	\$187,777	\$299,359	-0.1%
2012	\$115,238	\$187,777	\$303,015	1.2%
2013	\$114,064	\$187,777	\$301,841	-0.4%
2014	\$189,000	\$201,277	\$390,277	22.7%
2015	\$221,184	\$193,410	\$414,594	5.9%
2016	\$232,230	\$199,213	\$431,443	3.9%
2017	\$237,404	\$205,189	\$442,593	2.5%
2018	\$253,798	\$211,340	\$465,138	4.8%

Form 9-1366
(Oct. 2005)

**U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

JOINT FUNDING AGREEMENT

FOR

Water Resources Investigations

Customer #: 6000000385
Agreement #: 14ENNY24570016
Project #: 00140/00240/0034...
TIN #: 116002552
Fixed Cost Agreement YES

THIS AGREEMENT is entered into as of the, 23 day of October, 2013 by the U.S. GEOLOGICAL SURVEY, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Suffolk County Water Authority, party of the second part.

1. The parties hereto agree that subject to availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation for Hydrologic Surveillance and Analysis (HSA), and Environmental and Hydrologic Investigations (EHI) in Suffolk County, New York herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50; and 43 USC 50b.
2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) includes In-Kind Services in the amount of \$1,010,434.00
 - (a) by the party of the first part during the period

Amount	Date	to	Date
\$1,500,000.00	October 1, 2013		September 30, 2018
 - (b) by the party of the second part during the period

Amount	Date	to	Date
\$2,144,050.00	October 1, 2013		September 30, 2018
 - (c) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
 - (d) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.
3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.
4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.
5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.
6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

10/24/2013

9-1366 (Continuation)

Customer #:

6000000385

Agreement #:

14ENNY24570016

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.
8. The maps, records, or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records, or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program and, if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at costs, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records, or reports published by either party shall contain a statement of the cooperative relations between the parties.
9. USGS will issue billings utilizing Department of the Interior Bill for Collection (form DI-1040). Billing documents are to be rendered quarterly. Payments of bills are due within 60 days after the billing date. If not paid by the due date, interest will be charged at the current Treasury rate for each 30 day period, or portion thereof, that the payment is delayed beyond the due date. (31 USC 3717; Comptroller General File B-212222, August 23, 1983).

**U.S. Geological Survey
United States
Department of the Interior**

Suffolk County Water Authority

USGS Point of Contact

Customer Point of Contact

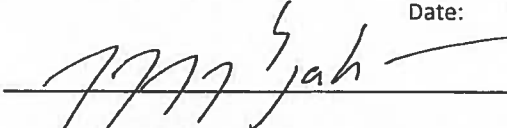
Name: Tracy Bristol
Address: 425 Jordan Road
Troy, New York 12180
Telephone: 518-285-5626
Email: tbristol@usgs.gov

Name: Carrie Meek Gallagher
Address: 4060 Sunrise Highway
Oakdale, New York 11769
Telephone: 631-563-0218
Email: Carrie.Gallagher@scwa.com

Signatures and Date

Signature: 

Date:

Signature: 

Date:

10/31/13

Name: Ward O. Freeman 10/25/2013

Name:

Title: Director

Title:


Chief Executive Officer

SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York

I N T E R O F F I C E C O R R E S P O N D E N C E

DATE: September 20, 2018

TO: Jeffrey Szabo, CEO

FROM: Timothy J. Kilcommons, P.E., Chief Engineer/Dir. R&D 

SUBJECT: Commercial Blvd Full Scale Pilot AOP System Peroxide Analyzer

As you know, SCWA continues to operate NY State's first Advanced Oxidation Process system for the destruction of 1,4 dioxane at our Commercial Blvd pump station. This treatment system is considered a full-scale pilot system as both SCWA and NYS and County DHS agencies are learning about the system and its operational issues and reliability. You will recall that the system utilizes a combination of UV light and an oxidant in the form of hydrogen peroxide to destroy the 1,4 dioxane molecules. A GAC system downstream of the AOP reactor serves to remove excess hydrogen peroxide (in addition to other contaminants) before it enters our water distribution system. A hydrogen peroxide analyzer monitors the concentration of peroxide upstream of the AOP reactor in combination with the peroxide pumps.

As part of the regulatory review process to gain DHS approval for this system, we were required by DHS to install a second peroxide analyzer downstream of the GAC vessels. The thinking was that we would use this analyzer to prove that no peroxide was exiting the GAC vessels. The analyzer uses an amperometric method that involves measuring the change in current driven by chemical reactions. Although it has proven reliable in measuring the higher influent AOP peroxide levels, it has a severe limitation: it struggles to show extremely low levels or no levels of peroxide. To simplify, the probe is built to measure appreciable levels of peroxide, not the absence of peroxide. As levels approach zero, it starts bouncing around, producing unreliable numbers that are more than an order of magnitude off.

In the hopes of finding a viable solution, Mike O'Connell, Director of Production Control, asked our local Hach representative if they manufactured an analyzer for peroxide. Hach supplies SCWA with chlorine analyzers that are proven to be reliable. Hach did not make a peroxide analyzer, but as luck would have it, they had just purchased a Belgian company, AppliTek, that did. Hach contacted the Engineering department and we set up a visit to Commercial Blvd to demonstrate the AOP system and explain the issues we were having with our current analyzer.

The Hach/AppliTek unit utilizes a colorimetric, not amperometric method. This method, similar to our chlorine analyzers, adds a reagent to sample water from our system to create a color in the presence of peroxide that is then read by the analyzer and reported back as a concentration. It does not have trouble identifying zero levels of

concentration, making it suitable for our needs. Our understanding is that it is the only colorimetric unit on the market at this time. The cost, at approximately \$25,000, is more than three times the cost of our current Prominent analyzer. The current product however, only works on the influent side of the reactor. If this new product works as advertised, we would seek to use it only on the effluent (downstream) side.

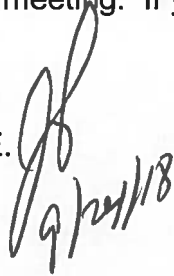
We did request a free demo of the unit as part of our R&D efforts. Hach declined however, as no units are currently sitting on a shelf waiting to be sold. They will have to manufacture the unit, train us in its use, and will be stuck with it if we do not purchase it (the market is in its infancy and also they do not sell used equipment). They are confident however, that it will work as advertised. A brochure and a copy of the Hach proposal is attached.

In light of this, we negotiated a cost of \$2,000 to try the unit for thirty days after undergoing training and doing the start-up. If it works reliably during that period, we would purchase the unit for a price not to exceed \$25,000. The \$2,000 initial payment would be used towards the purchase price. If we choose not to move forward with the purchase, the \$2,000 would go towards the cost of the training and start-up.

The current analyzer does not work in this application; we need to explore alternates. We believe the colorimetric method offers a better chance of success. We are seeking Board approval to pay Hach \$2,000 for the trial period and to authorize the purchase of the unit, with the CEO's approval, if it has met expectations at the end of the trial period.

If this meets with your approval, please place this on the agenda for Board approval at their September 2018 meeting. If you have any further questions regarding the above, please contact me.

Cc: J. Pokorny, P.E.



EZ Series Hydrogen Peroxide Analyzer – Trial Proposal

Suffolk County Water Authority

Commercial Boulevard

SUMMARY

The following proposal is between Hach and the Suffolk County Water Authority (SCWA) specific to the installation and operation of a Hach EZ Series Hydrogen Peroxide On-line Analyzer at the Commercial Boulevard.

OBJECTIVE

The objective of the proposal is to evaluate the performance and operation of the Hach EZ Series Hydrogen Peroxide On-line Analyzer during a one-month trial. The focus of the trial is measuring the influent and effluent GAC hydrogen peroxide values in the AOP process at Commercial Boulevard.

This Hach EZ Series Hydrogen Peroxide On-line Analyzer system will consist of a two stream EZ Series 1000 Hydrogen Peroxide Analyzer, reagents, and standards.

The analyzer will be mounted at the Commercial Boulevard Advanced Oxidation Process (AOP) system building and both samples will be delivered to “catch pots” located below the analyzer. Samples to the on-line Hydrogen Peroxide analyzer will be pulled from ambient pressure. The analyzer requires to keep the instrument protected from wind, sun and rain and within 10-30 Celsius temperature and 5 – 95% non-condensing humidity. Basic sample requirements and ambient conditions are specified on the analyzer data sheet.

SUCCESS METRICS

- **Successful start-up of Hach’s equipment at the site**
- **Performance of the analyzers**
 - **Daily grab readings versus on-line analyzer reading – overall comparison average within tolerance to be agreed upon before starting trial**
 - **Reliability of the analyzer with 30 days of continuous use**

Supplied by Hach

- **EZ1022 Series Hydrogen Peroxide On-line Analyzer**
- **Startup, programming, and end user training of the equipment above**
- **WarrantyPlus Service including:**
 - **All site visits for preventative maintenance and repairs as necessary per our EZ1000 Warranty Plus Scope of Work**

Supplied by Suffolk County Water Authority

- Installation/mounting and wiring of EZ Series Hydrogen Peroxide Analyzer
- Sample pumps, catch pots and sample lines
- Wiring any outputs back to your SCADA
- Reagents/standards and associated bottle changing as needed
- Typical maintenance/troubleshooting performed by end users. This is mostly being able to determine alarm or warning conditions by using the menu and trouble-shooting over the phone with tech support to determine if our field service technicians need to be deployed.

Cost breakdown:

1. The cost of the analyzer is not to exceed \$25,000.
2. At the completion of the 30-day evaluation, if the success metrics are achieved as described above, the Suffolk County Water Authority agrees to purchase the trial system for the cost of \$25,000 less \$2,000 for a net of not to exceed \$23,000.
3. The cost associated with the trial (\$2,000) is non-refundable and will be used towards Hach equipment's and services provided during the test period if SCWA decides not to purchase the system.

Thank you for considering Hach for this trial and we look forward to working with SCWA to support your AOP efforts.

Sincerely,

Amy Pollock

Suffolk County Water Authority

Hach

Name, Title

Name, Title

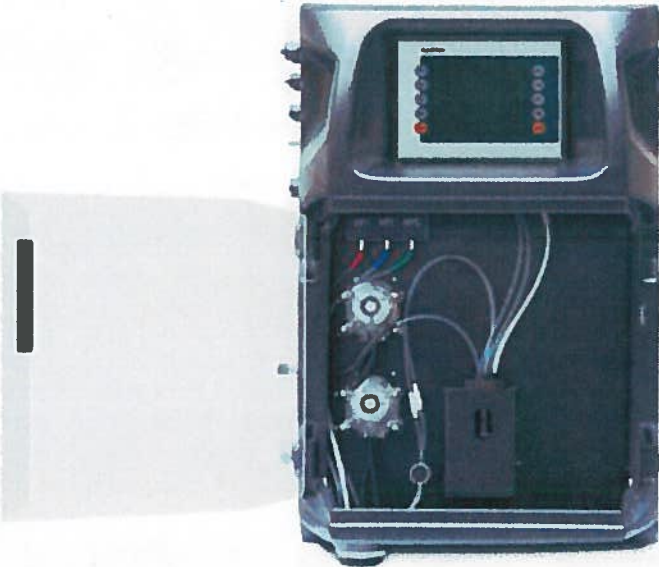
Date

Date



EZ Series® EZ 1022 HYDROGEN PEROXIDE ANALYZER

Parameter	Analyzer	Range	Remarks
Hydrogen Peroxide (H ₂ O ₂)	EZ Series® Environmental Analyzer	0 – 500 µg/L* * Higher range using internal or external dilution module	Colorimetric measurement using DPD color solution conforms to ASTM 4500-G



**Enclosure: Protection class IP55
(other enclosures on request)**

***Note:**
If the requested concentration is higher than the above described measuring range, an internal or external Sample dilution has to be provided: INTERNAL sample dilution up to 4x using Sampling Dilution pump, INTERNAL dilution up to 100x using Sampling Dispenser. EXTERNAL dilution for difficult matrices.

The on-line Environmental Analyzer - EZ Series® is a single parameter versatile wet chemical analyzer suitable for chemical analysis and monitoring of Environmental solutions.

TFT Color Touch Screen: 5" ¾"
Methodology: Colorimetric measurement using DPD color solution

Conforms: ASTM 4500-CI G
Wavelength: 510 nm

Range: 0 – 500 µg/L H₂O₂ *
**Higher range by sample dilution*

Limit of Detection: ≤ 1 µg/L
(for 0 – 500 µg/L H₂O₂)

Precision: < 2% full scale range for standard test solutions

Cycle time: 1 cycle/10 minutes

Stream selection: 1 stream, up to 3 streams optional (more streams on request)

Matrix: Drinking water, Boiler feed water, Treated waste water, Cooling water, Process water, Surface water

ELECTRICAL CHARACTERISTICS

Transmission signal:

- Standard 1 active 4-20 mA (galvanic separated)
- Optional up to 6 AO can be configured (ON REQUEST)

Communication output:

- MODBUS or RS232/RS485 (optional)
- Standard Ethernet for VNC screen take over

Alarms:

- Standard: Malfunctioning alarm (potential free)
- Optional: Result alarm (potential free)

Digital Inputs: Remote Start/Stop, Leak detector (OPTIONAL, ON REQUEST)

Digital Outputs:

- 24VDC for internal valves/pumps (OPTIONAL, ON REQUEST)
- Potential free for analyzer busy, sample flow (OPTIONAL, ON REQUEST)

USB Serial port: For export of data, programs and configuration

Other: TCP/IP, Validation/Cleaning (OPTIONAL)

SAMPLE REQUIREMENTS

Inlet Pressure:

- Sample pump: atmospheric up to 0,1 bar*
- Sample valve: up to 0,5 bar*

**Higher sample pressures on request*

Flow rate: Between 10 and 30 ml/min

Sample consumption: 80 - 100 ml/analysis

Temperature: Between 5 and 60 °C

Suspended solids: Max. size 40 microns, amount less than 0,1 g/L

Turbidity: < 50 NTU

Note: Technical Specifications subject to change without notice.

ANALYZER CABINET INFORMATION

Cabinet and materials, hinged part:

Thermoform ABS

- Bottom: leak detection
- Door: antistatic plexiglass

Cabinet and materials, wall section:

- Galvanized steel, powder coated

Wetted materials: PE / PTFE / PP / PFA

Dimensions: Width: 466 mm (18 ½") x Depth: 330 mm (13") x Height: 688 mm (27")

Mounting: Wall mounted

Shipping weight: 25 kg (55 lbs.)

Enclosure: Protection class IP55

FACILITY REQUIREMENTS

Power supply: 220/240 VAC, 50/60 Hz, 110/120 VAC (on request)

Power consumption: max. 150 VA

Instrument air: Dry & oil free according to ISA-S7.0.01-1996 quality standard for instrument air

Drain: Atmospheric pressure, vented, minimum 64 mm pipe

De-mineralized water: For rinsing and dilution purpose (application dependent)

Earth connection: Clean earth pole that provides a good earth quality (low impedance < 1 ohm) using an earth cable of > 2.5mm²

AMBIENT CONDITIONS

Suitable for general purpose, clean, indoor

Relative humidity: 5 – 95% (non-condensing)

Temperature: 10 – 30 °C (± 4 °C deviation)

Temperature reagent solutions: Between 10 – 30 °C (± 4 °C deviation)



Be Right™

INTERFERENCES:

- Oxidants like Bromine [Br₂], Bromamine, Chlorine [Cl₂], Copper (II) [(Cu)²⁺] > 8 mg/l,
- Chromate [(CrO₄)²⁻]*, Iodine [I₂], Iodoamines, Iron (III) [(Fe)³⁺] > 20 mg/l,
- Nitrite [(NO₂)⁻], Ozone [O₃] and Manganese may oxidize the DPD color solution.
- *Chromate can be eliminated by addition of Barium chloride.
- Large amounts of color and turbidity interferes.
- Fats, Oil, Proteins, Surfactants and Tar.

BE CONFIDENT WITH HACH SERVICE:

Start-Up/Commissioning: Our service technicians visit your site and setup instrumentation, provide basic end-user training on operations and maintenance, and validate settings and performance to get you started.

Service Agreement: Hach provides on-site and in-factory repair, preventive maintenance, and calibration programs for your instruments to ensure reliability and instrument up-time. We have services to fit your specific needs.

**SUFFOLK COUNTY WATER AUTHORITY
Oakdale, Long Island, New York**

I N T E R O F F I C E C O R R E S P O N D E N C E

DATE: September 12, 2018
TO: Jeffrey Szabo, CEO
FROM: Timothy J. Kilcommons, P.E., Chief Engineer/Dir. R&D
SUBJECT: AWWA Water Infrastructure Conference, Atlanta, GA

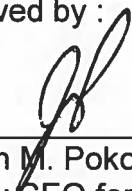
AWWA is holding their annual water infrastructure conference in Atlanta, GA from October 28 through October 31, 2018. This conference covers a wide range of relevant topics from smart water system technologies to asset management techniques to water tank and distribution system management for best efficiencies.

We are recommending that Jason White, Associate Civil Engineer, attend the conference to expand his knowledge of water systems and practices. The total cost will not exceed \$2,100.

If this meets with your approval, please place on the Board agenda for the September 2018 meeting.

Cc: J. Pokorny, P.E.
File

Approved by :



Joseph M. Pokorny, P.E.
Deputy CEO for Operations

9/12/18
Date



SEMINAR/CONVENTION ATTENDANCE
AND
TRAINING REQUEST FORM

INSTRUCTIONS: This form should be completed whenever an employee requests attendance at a seminar, convention, or training session. The completed form should be forwarded to the Chief Human Resources Officer after appropriate departmental approvals have been received for final authorization and processing.

Employee Name: Jason White Title: Associate Civil Engineer
Department: Engineering

Seminar/Course/Training Requested: (attach literature and completed registration form) _____
AWWA Water Infrastructure Conference

Date(s) of Training: 10/28/18 until 10/31/18 Number of Hours/CEU: _____

Location: Atlanta Georgia

Expected Benefits: Increased knowledge of water infrastructure and networking opportunities with other professionals in my field.

Projected costs:


Course: \$ 615.00 Travel: \$ 450.00 Food/Lodging: \$ 1035.00 Auto Rental: \$ 0


TOTAL: \$ 2100.00

Training/Seminar actual costs should be allocated to general ledger account 502602 - 21001 - 100075.
(Your Dept. Cost Center)

Training related (lodging, food, travel) actual costs should be allocated to general ledger account 502600- 211001 -100075.
(Your Dept. Cost Center)

APPROVALS:

 8/29/18
Department Head//Date

 9/12/18
Deputy CEO//Date

Chief Human Resources Officer//Date

Chief Executive Officer//Date

Authorizing Resolution (If costs exceed \$1,500)

Original to Employee, Copy to Department Head, and Copy to Human Resources Department

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Water Infrastructure Conference & Exposition - Oct. 28-31, 2018 | Atlanta, Georgia



- AFFORDABILITY
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- WATER QUALITY TECHNOLOGY

LOCAL HOST



- Register/Hotel
- Workshops
- Only in Atlanta
- Expo
- Schedule
- 2017 Program

Registration is now open!

REGISTER ONLINE or download the [Registration form](#) (PDF)

Do you need a letter of invitation from AWWA? Submit the [request form](#). Requests will be honored for attendees and presenters with the intent to register.

2018 Registration Rates

Registration Type	Early Member Rate thru Oct. 1	Early Nonmember Rate thru Oct. 1	On-site Member Rate after Oct. 1	On-site Nonmember Rate after Oct. 1
Full-Conference Registration (Best Value) Includes technical sessions, exposition; meals; does not include workshops	\$615	\$795	\$795	\$895
Monday-Only (includes Monday lunch and Monday reception)	\$370	\$555	\$555	\$655
Tuesday/Wednesday-Only (includes Tuesday lunch)	\$370	\$555	\$555	\$655
Student (ID required - Same as Full-Conference)	\$35	\$35	\$35	\$35
Speaker (40% discount off of the Full-Conference rate)	\$365	\$365	\$365	\$365
Exhibits-Only (non-booth staff)	\$60	\$90	\$90	\$90
Spouse/Guest Registration (includes admittance to Monday evening reception)	\$35	\$35	\$35	\$35
Sunday half-day Workshops	\$110	\$210	\$210	\$310



Cancellation Policy: Please send cancellations in writing, on company letterhead, via fax or email to AWWA. Phone cancellations are not accepted. All cancellations emailed/fax-dated by 10/1/18 will receive a refund, minus a 25% administrative fee. Beginning on 10/2/18, cancellations will not be refunded; however, substitute registrants are always welcome. Fax requests for substitutions or cancellations to 303.347.0804 or email [Customer Service](#)

Photo and Information Release: By registering for this event, you agree to allow AWWA to use your photo in any AWWA-related publication or website. Registrants may receive show-related and promotional emails from exhibitors. AWWA uses a third party for this service, and at no time was your email disclosed to exhibitors.

Hotel Information

Hyatt Regency Atlanta
265 Peachtree St. NE
Atlanta, Georgia 30303



Conference rate: **\$185** per night, plus tax and fees.
Georgia charges a \$5.00 per night state Hotel/Motel fee.

BOOK A ROOM

The Hyatt Regency Atlanta is a landmark destination located in the heart of downtown Atlanta. Conveniently connected to the MARTA transit system allowing for easy access to major attractions. Blocks away from Georgia World Congress Center, Georgia Aquarium and the World of Coca-Cola.

Alert: AWWA is aware of multiple organizations contacting attendees to solicit hotel rooms. Reservations made through any other housing services company cannot be guaranteed by AWWA and could result in hidden charges, unusual restrictions, or incorrect hotel placement. If you are contacted by an agency other than **Par Avlon - the official AWWA Housing Bureau**, please email [AWWA Lodging](#)

For questions regarding registration, lodging or general conference questions, please contact the [Conferences and Events Group](#).

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WATER INFRASTRUCTURE Conference

October 28–31, 2018
Hyatt Regency Atlanta | Atlanta, Georgia

To register, visit www.awwa.org/H2Oinfocon and submit online or complete this registration form and fax or mail it with full payment or credit card information.
Fax: 303.347.0804
6666 West Quincy Avenue Denver, CO 80235-3098
Questions? Call 1.800.926.7337

Registration Form

AWWA Member No. _____ Individual Organization

First Name (FOR BADGE) _____ M.I. _____ Last Name _____

Title _____

Company or Organization _____

Mailing Address _____

City _____ State/Prov. _____ Country _____ ZIP/Postal Code _____

Telephone _____ Fax _____

Email _____

Name of Registered Spouse/Guest (extra cost) _____

Check here if you require special accommodations to fully participate. AWWA will contact you within five (5) business days.

Registration

 Check the items below for which you are registering.

Technical Sessions and Exposition

	Registering on or before 10/1/2018		Registering on or after 10/2/2018	
	Member	Nonmember	Member	Nonmember
<input type="checkbox"/> A Full Conference (Includes lunches and receptions, does not include workshops)	\$615	\$795	\$795	\$895
<input type="checkbox"/> B Monday Only (includes Monday lunch and reception)	\$370	\$555	\$555	\$655
<input type="checkbox"/> C Tuesday/Wednesday Only (includes Tuesday lunch)	\$370	\$555	\$555	\$655
<input type="checkbox"/> G Exhibits Only (includes Monday reception)	\$60	\$90	\$90	\$90
<input type="checkbox"/> H Student (includes full conference)	\$35	\$35	\$35	\$35
<input type="checkbox"/> P Speaker (40% discount off of full conference)	\$365	\$365	\$365	\$365

Pre-conference Workshops (half-day, does not include lunch)

<input type="checkbox"/> PCW01—Communicating Risk, Reliability, and Resiliency to Decision Makers	\$110	\$210	\$210	\$310
<input type="checkbox"/> PCW02—Demystifying Non-Revenue Water	\$110	\$210	\$210	\$310
<input type="checkbox"/> PCW03—Developing and Implementing an Effective Valve and Hydrant O & M Program	\$110	\$210	\$210	\$310
<input type="checkbox"/> PCW04—Information Technology –Tapping the Potential	\$110	\$210	\$210	\$310

Additional Options

SASpouse/Guest Registration (includes admittance to Monday Reception) \$35 \$35 \$35 \$35

Total \$ \$ \$ \$

Networking opportunities

Are you interested in joining other attendees for a visit to the Georgia Aquarium? Sunday, October 28, at 2:00pm, entrance cost of \$45.95 paid at the door. Yes No

Are you interested in joining other attendees for a visit to the World of Coke? Sunday, October 28, at 2:00pm, entrance cost of \$17 paid at the door. Yes No

Continued on reverse

What one business activity best describes your company? (please circle only one—Required)

- | | | |
|--|---|---|
| A. Public Water Supply Utility—
Municipally Owned | F. Private Industrial System
or Water Wholesaler | K. Research Lab, Libraries and other
related organizations |
| B. Public Water Supply Utility—
Investor Owned | G. Manufacturer of Equipment & Supplies | L. Public Official |
| C. Government—Federal, State, Local | H. Distributor of Equipment & Supplies | M. Law Office |
| D. Consulting Firm | I. Educational Institutions (Faculty &
Students) | N. Other (please specify) _____ |
| E. Contractor | J. Fully Retired | |

What one category best describes your job function? (please circle only one—Required)

- | | | |
|---------------------|----------------------------------|------------------------------------|
| A. Administrative | H. Human Resource | P. Purchasing |
| B. Communications | I. Information Technology | R. Retired |
| C. Customer Service | J. Legal | S. Safety |
| D. Educations | K. Legislative/Regulatory | T. Sales & Marketing |
| E. Engineering | L. Management | U. Scientific/Research |
| F. Executive | M. Operations - Operator | V. Security/Emergency Preparedness |
| G. Finance | Q. Quality Assurance/inspections | W. Other (please specify) _____ |
| | N. Operations - | |
| | O. Public/Elected Official | |

What category best describes your field served/principal activity? (Select all that apply—Required)

- | | | |
|-------------------------|---------------|---------------------------------|
| A. Potable Water Supply | C. Stormwater | E. Other (please specify) _____ |
| B. Wastewater | D. Reuse | |

Which one of the following best describes your responsibility for purchasing decisions? (please circle only one—Required)

- | | |
|---------------------------------------|---|
| A. I have sole responsibility | D. I do not provide input or make
purchasing decisions |
| B. I provide input to decision makers | E. Other (specify) _____ |
| C. I share a responsibility | |

What type of products or services are you coming to our Exhibit Hall to see? (Select all that apply—Required)

- | | | |
|---|----------------------------------|---|
| A. Aerators/Equipment | K. Management/Consultants | U. Pipe/Equipment |
| B. Chemicals/Equipment | L. Tanks/Equipment | V. Pumps |
| C. Conservation | M. Hydrants | W. Safety/Equipment |
| D. Construction/Equipment | N. Instrumentation | X. Sewer Inspection Equipment |
| E. Contractors | O. Laboratory Services/Equipment | Y. Software |
| F. Corrosion | P. Leak/Backflow Prevention | Z. Trench Systems/Equipment |
| G. Distribution System Analysis/Equipment | Q. Meters/Flowmeters | AA. Valves/Gates |
| H. Gas Detection/ Equipment | R. Modeling | BB. Water Supply/Wastewater/Treatment/Equipment |
| I. GIS | S. Monitoring/Equipment | CC. Well Design/Equipment |
| J. Groundwater | T. Parts/Tools | DD. All of the Above |
| | | EE. Other (please specify) _____ |

Are you a first-time conference attendee? (Required) Yes No

Would you like to be involved with AWWA Committees? Yes No, thanks Currently involved

Total/Method of Payment: AWWA Federal Tax ID# 13-5660277

TOTAL AMOUNT DUE: \$ _____

Government PO Check American Express MasterCard Discover Visa

Card #: _____ Security Code: _____

Exp. Date: _____ Signature: _____

By registering for this event, your contact information may be shared with exhibitors and/or sponsors.

Fax this form to 303.347.0804

Cancellation Policy: Cancellations must be received in writing, faxed, or emailed to AWWA. Phone cancellations are not accepted. All cancellations postmarked/fax-dated by 10/01/18 will receive a refund, minus a 25% administrative fee. Beginning on 10/2/18, cancellations will not be refunded; however, substitute registrants are welcome. Email requests for substitutions or cancellations to service@awwa.org. or fax to 303.347.0804

This form is not valid for on-site registration or Exhibitor registration.

AWWA Water Infrastructure Conference 2018

Oct 28, 2018 - Oct 31, 2018

Reservation Details

ACKNOWLEDGEMENT NUMBER:32KXMQZS



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KING

DATES: Oct 27, 2018 - Oct 31, 2018

4 nights , 1 adult , 0 children

RATES

USD 740.00

TAXES & FEES

USD 145.06

TOTAL ROOM PRICE

USD 885.06

ADD-ONS

SUBTOTAL

USD 885.06

GUEST SUMMARY

JASON WHITE

PO Box 38,

Oakdale, NY, 11769

US

jason.white@scwa.com

6314458602

Oct 27, 2018 - Oct 31, 2018

PAYMENT INFORMATION

Credit Card

VISA

*****0955

** / **

BILLING ADDRESS

Jason White

PO Box 38,

Oakdale, NY, 11769

US

6314458602

RATES

Oct 27, 2018 - USD 185.00

Oct 28, 2018 - USD 185.00

Oct 29, 2018 - USD 185.00

Oct 30, 2018 - USD 185.00

OTHER INFORMATION

SMOKING PREFERENCE: No Preference

ACCESSIBLE: No

POLICIES

ROOM POLICIES

- Tax is not included

TAX POLICY

Rates do not include 16% Tax or \$5.00 State Hotel / Motel fee. Taxes are subject to change.

CANCEL POLICY

Reservations must be cancelled by 3PM EST 72 hours prior to arrival to avoid a 1 nights Room and Tax penalty.

CHILDREN POLICY

Children aged 18 years and under stay free when sharing a room with parents.

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