

3-3)



**City Council Agenda Item**  
**Meeting of May 3, 2016**

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**TO:** The Honorable Mayor and Members of the City Council  
**FROM:** James R. O'Connor, City Manager  
**DATE:** April 20, 2016

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**SUBJECT:** Water and Sewer Laboratory Services Provider –  
Recommendation of Award – Bid No. 070-16/CSS

**REQUESTED BY:** City Manager/Water and Sewer Director

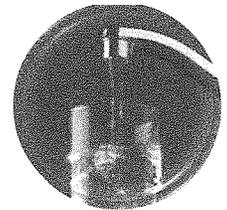
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The following is requested as it relates to the above-referenced agenda item:

Request Council review and approval based on the attached supporting documentation.

No action required. (Information only)

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**DEPARTMENTAL CORRESPONDENCE**  
**WATER AND SEWER DEPARTMENT**

To: James R. O'Connor, City Manager

From: Robert J. Bolton, P.E., Director *ARB*

Date: April 19, 2016

**RE: Water and Sewer Laboratory Services Provider  
Recommendation of Award  
Bid No. 070-16/CSS**

**Recommendation:**

Place this item on the City Council's Agenda for May 3, 2016. Staff recommends awarding the bid to Flowers Chemical Laboratories, Inc.

**Funding:**

Funding for this project is available via account numbers: 421.9000.536.331020.  
421.9002.536.331020  
421.9004.536.331020

**Background:**

The Water & Sewer Department employs commercial testing laboratories to collect samples and conduct analytical tests for its Water Treatment, Wastewater Treatment and Wastewater Reuse divisions. These tests are required to manage operations, provide information for customers, and comply with state and federal laws regulating drinking water, wastewater and reclaimed water.

The Purchasing Division solicited bids for a Laboratory Services Provider for the Water and Sewer Department. One bid was received and opened on April 14, 2016. Flowers Chemical Laboratories, Inc. was the sole bidder. (Bid Tabulation attached) Flowers Chemical Laboratories, Inc. has provided contract laboratory services to the City since 2012. Our experience with them has been positive.

Annual testing requirements vary from year to year. This contract will establish unit prices for services to be rendered as needed. Scheduled tests, used as the basis for bidding, were quoted as totaling \$80,864.00 for the first year of the contract, \$83,247.92 in the second and \$92,631.11 in the third. During the 2014-15 fiscal year, Water and Sewer Dept. sampling and testing expenses were approximately \$128,000.

**Analysis:**

**Strengths:** The continuation of laboratory testing services will allow the City to stay in compliance with state and federal regulations and provide assurance to its customers of the quality of their drinking water.

**Recommendation of Award**  
**Bid No. 070-16/CSS**  
**April 19, 2016**  
**Page 2**

Weaknesses: None

Opportunities: None

Threats: If the City does not test its drinking water and wastewater in accordance with state and federal requirements, it may be subject to fines and enforcement actions.

Please contact me at ext. 5228 if you have any questions.

xc: Cynthia D. Lawson, Director, Finance  
John O'Brien, Manager, Purchasing and Warehouse Operations

RB/  
Attachment

CITY OF VERO BEACH  
 BID TABULATION 070-16/CSS  
 OPENED 4-14-16

	FLOWERS CHEMICAL LABORATORIES	Qty	Unit Price	Year One (1)	Year Two (2)Unit Price	TOTAL	Year Three (3) Unit Price	TOTAL
General Charges				\$500.00	\$500.00	\$500.00	\$500.00	\$500.00
<b>B. Wastewater Treatment Facility</b>								
1	Weekly Influent Parameters	52	\$21.00	\$1,092.00	\$21.63	\$1,124.76	\$22.28	\$1,158.56
2	Weekly Effluent Parameters	52	\$21.00	\$1,092.00	\$21.63	\$1,124.76	\$22.28	\$1,158.56
3	RESERVED							
4	Quarterly Sludge Analysis Parameters	4	\$145.00	\$580.00	\$149.35	\$597.40	\$153.83	\$615.32
<b>C. Reclaimed Water</b>								
5	Daily Reclaimed Water Parameters	365	\$23.00	\$8,395.00	\$23.69	\$8,646.85	\$24.40	\$8,906.00
6	Weekly Reclaimed Water Parameters	52	\$33.00	\$1,716.00	\$33.99	\$1,767.48	\$35.01	\$1,820.52
7	Monthly Reclaimed Water Contract Monitoring Parameters	24	\$83.00	\$1,992.00	\$85.49	\$2,051.76	\$88.05	\$2,113.20
8	Quarterly Reclaimed Water Application Site Monitoring Parameters	20	\$72.00	\$1,440.00	\$74.16	\$1,483.20	\$76.38	\$1,527.60
8a	Field Analyses for Item 8	20	\$20.00	\$400.00	\$20.60	\$412.00	\$21.22	\$424.40
8b	Sampling for Item 8	4	\$150.00	\$600.00	\$154.50	\$618.00	\$159.14	\$636.56
9	RESERVED							
10	Annual Reclaimed Water Analysis	1	\$1,450.00	\$1,450.00	\$1,493.50	\$1,493.50	\$1,538.31	\$1,538.31
10a	Sampling for Item 10	1	\$200.00	\$200.00	\$206.00	\$206.00	\$212.18	\$212.18
<b>D. Industrial Waste Pretreatment</b>								
11	Semiannual Pretreatment WWTP Monitoring Parameters	2	\$2,150.00	\$4,300.00	\$2,214.50	\$4,429.00	\$2,280.94	\$4,561.88
11a	Sampling for Item 11	2	\$125.00	\$250.00	\$128.75	\$257.50	\$132.61	\$265.22
12	RESERVED							
13	Semiannual Industrial User Permit NO. 9402 Monitoring Parameters	2	\$25.00	\$50.00	\$25.75	\$51.50	\$26.52	\$53.04
13a	Sampling for Item 13	2	\$125.00	\$250.00	\$128.75	\$257.50	\$132.61	\$265.22
14	Semiannual Industrial Uer Permit NO 9501 Monitoring Parameters	2	\$950.00	\$1,900.00	\$978.50	\$1,957.00	\$1,007.87	\$2,015.72
14a	Sampling for Item 14	2	\$300.00	\$600.00	\$309.00	\$618.00	\$318.27	\$636.54
15	RESERVED							

E. Water Treatment		Qty	Unit Price	Year One (1)	Year Two (2)Unit Price	TOTAL	Year Three (3) Unit Price	TOTAL
16	Monthly Water Production Well Bacteriological Parameters	360	\$10.00	\$3,600.00	\$10.30	\$3,708.00	\$10.61	\$3,819.60
16a	Field Analysis for Item 16	360	\$5.00	\$1,800.00	\$5.15	\$1,854.00	\$5.30	\$1,908.00
16b	Sampling for Item 16	12	\$400.00	\$4,800.00	\$412.00	\$4,944.00	\$424.36	\$5,092.32
17	RESERVED							
18	Semiannual Production Well Chloride Monitoring Parameters	60	\$12.00	\$720.00	\$12.36	\$741.60	\$127.31	\$7,638.60
18a	Sampling for Item 18	2	\$400.00	\$800.00	\$412.00	\$824.00	\$424.36	\$848.72
19	RESERVED							
20	Annual Production Well Analyses for Consumptive Use Permit Parameters	4	\$175.00	\$700.00	\$180.25	\$721.00	\$185.66	\$742.64
20a	Field Analyses for Item 20 to be performed by Service Provider	4	\$15.00	\$60.00	\$15.45	\$61.80	\$15.91	\$63.64
20b	Sampling for Item 20	1	\$125.00	\$125.00	\$128.75	\$128.75	\$132.61	\$132.61
21	Annual Landfill Monitoring Well Parameters	4	\$45.00	\$180.00	\$46.35	\$185.40	\$47.74	\$190.96
21a	Field Analysis for Item 21	4	\$25.00	\$100.00	\$25.75	\$103.00	\$26.52	\$106.08
21b	Sampling for Item 21	1	\$100.00	\$100.00	\$103.00	\$103.00	\$106.09	\$106.09
22	RESERVED							
F. Injection Well		Qty	Unit Price	Year One (1)	Price	TOTAL	Unit Price	TOTAL
23	Monthly Deep Injection Well Injectate Parameters	12	\$121.00	\$1,452.00	\$124.63	\$1,495.56	\$128.37	\$1,540.44
23a	Sampling for Item 23	12	\$25.00	\$300.00	\$25.75	\$309.00	\$26.52	\$318.24
24	Quarterly Deep Injection Well Injectate Parameters	4	\$212.00	\$848.00	\$218.36	\$873.44	\$224.91	\$899.64
24a	Sampling for Item 24	4	\$25.00	\$100.00	\$25.75	\$103.00	\$26.52	\$106.08
25	Monthly Deep Injection Well Monitor Well Parameters	12	\$91.00	\$1,092.00	\$93.73	\$1,124.76	\$96.54	\$1,158.48

		Qty	Unit Price	Year One (1)	Year Two (2)Unit Price	TOTAL	Year Three (3) Unit Price	TOTAL
25a	Sampling for Item 25	12	\$25.00	\$300.00	\$25.75	\$309.00	\$26.52	\$318.24
26	Annual Deep Injection Well Analysis Parameters	2	\$1,600.00	\$3,200.00	\$1,648.00	\$3,296.00	\$1,697.44	\$3,394.88
26a	Sampling for Item 26	2	\$150.00	\$300.00	\$154.50	\$309.00	\$159.14	\$318.28

G. Water Distribution		Qty	Unit Price	Year One (1)	Year Two (2)Unit Price	TOTAL	Year Three (3) Unit Price	TOTAL
27	Routine Distribution System Bacteriological Compliance Parameters	768	\$10.00	\$7,680.00	\$10.30	\$7,910.40	\$10.61	\$8,148.48
28	Monthly Distribution System Monitoring For Nitrification Control Parameters	84	\$20.00	\$1,680.00	\$20.60	\$1,730.40	\$21.22	\$1,782.48
28a	Field Analysis for Item 28	84	\$7.00	\$588.00	\$7.21	\$605.64	\$7.43	\$624.12
28b	Sampling for Item 28 and 28a	12	\$75.00	\$900.00	\$77.25	\$927.00	\$79.57	\$954.84
29	Monthly Fluoride Testing Parameters	48	\$12.00	\$576.00	\$12.36	\$593.28	\$12.73	\$611.04
29a	Sampling for Item 29	12	\$45.00	\$540.00	\$46.35	\$556.20	\$47.74	\$572.88
30	RESERVED							
31	Lead and Copper Testing Parameters	30	\$15.00	\$450.00	\$15.45	\$463.50	\$15.91	\$477.30
31a	Sampling for Item 31	1	\$750.00	\$750.00	\$772.50	\$772.50	\$795.68	\$795.68
32	RESERVED							
33	RESERVED							

H. Wellfield Cleanup								
34	Quarterly West Airport Contamination Monitoring Parameters – Water Level	80	\$15.00	\$1,200.00	\$15.45	\$1,236.00	\$15.91	\$1,272.80
35	Monthly West Airport Contamination Monitoring Parameters - AVOC	48	\$45.00	\$2,160.00	\$46.35	\$2,224.80	\$47.74	\$2,291.52
35a	Sampling for Item 35	12	\$45.00	\$540.00	\$46.35	\$556.20	\$47.74	\$572.88

36	Quarterly West Airport Contamination Monitoring Parameters – AVOC	80	\$45.00	\$3,600.00	\$46.35	\$3,708.00	\$47.74	\$3,819.20
36a	Sampling for Item 36	4	\$700.00	\$2,800.00	\$721.00	\$2,884.00	\$742.63	\$2,970.52

I. Miscellaneous								
37	Monthly Surface Water Quality Monitoring Parameter	24	\$64.00	\$1,536.00	\$65.92	\$1,582.08	\$67.90	\$1,629.60
37a	Sampling for Item 37	12	\$35.00	\$420.00	\$36.05	\$432.60	\$37.13	\$445.56
38	RESERVED							
39	Twice Daily Sample Pickup	260	\$25.00	\$6,500.00	\$25.75	\$6,695.00	\$26.52	\$6,895.20
39a	Once Daily Sample Pickup	104	\$15.00	\$1,560.00	\$15.45	\$1,606.80	\$15.91	\$1,654.64
<b>TOTAL 1-39</b>					<b>\$80,864.00</b>		<b>\$83,274.92</b>	<b>\$92,631.11</b>
40	Non-routine Sample Pickup	1	\$35.00	\$35.00	\$36.05	\$36.05	\$37.85	\$37.85

		Price Per Test	Price Per Test	Price per Test	Price per Test	Price per Test	Price per Test	Test Done in House
J. Additional Testing & Services		Water Yr 1	Wastewater Yr1	Water Yr 2	Wastewater Yr 2	Water Yr 3	Wastewater Yr 3	
Analyte								
Alkalinity, Total (as CaCO <sub>3</sub> )		\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes
Aluminum		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Antimony		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Arsenic		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Asbestos		\$135.00	\$135.00	\$139.05	\$139.05	\$143.22	\$143.22	No
Barium		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Benzene		\$40.00	\$40.00	\$41.20	\$41.20	\$42.44	\$42.44	Yes
Beryllium		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Boron		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
BTEX		\$40.00	\$40.00	\$41.20	\$41.20	\$42.44	\$42.44	Yes
CBOD <sub>5</sub>		\$13.00	\$13.00	\$13.39	\$13.39	\$13.79	\$13.79	Yes
Cadmium		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Calcium		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Chloride		\$12.00	\$12.00	\$12.36	\$12.36	\$12.73	\$12.73	Yes
Chlorine, Free		\$5.00	\$5.00	\$5.15	\$5.15	\$5.30	\$5.30	Yes
Chlorine, Total		\$5.00	\$5.00	\$5.15	\$5.15	\$5.30	\$5.30	Yes
Chromium		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Chromium, Hexavalent		\$36.00	\$36.00	\$37.08	\$37.08	\$38.19	\$38.19	Yes
E. Coli		\$15.00	\$15.00	\$15.45	\$15.45	\$15.91	\$15.91	Yes
Coliform, Fecal		\$15.00	\$15.00	\$15.45	\$15.45	\$15.91	\$15.91	Yes
Coliform, Total		\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes
Coliform, Total/E.coli		\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes
Color		\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes
Conductivity		\$5.00	\$5.00	\$5.15	\$5.15	\$5.30	\$5.30	Yes
Copper		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Cyanide		\$25.00	\$25.00	\$25.75	\$25.75	\$26.52	\$26.52	Yes
Fluoride		\$12.00	\$12.00	\$12.36	\$12.36	\$12.73	\$12.73	Yes
Foaming Agents		\$20.00	\$20.00	\$20.60	\$20.60	\$21.22	\$21.22	Yes
Florida PRO		\$80.00	\$80.00	\$82.40	\$82.40	\$84.87	\$84.87	Yes
Gross Alpha		\$35.00	\$35.00	\$36.05	\$36.05	\$37.13	\$37.13	No
Hardness, Calcium		\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes
Hardness, Total		\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes
Heterotrophic Plate Count		\$15.00	\$15.00	\$15.45	\$15.45	\$15.91	\$15.91	Yes

Iron		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Lead		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Magnesium		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Manganese		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
MBAS (Surfactants)		\$20.00	\$20.00	\$20.60	\$20.60	\$21.22	\$21.22	Yes
Mercury		\$15.00	\$15.00	\$15.45	\$15.45	\$15.91	\$15.91	Yes
Mercury, Low Level		\$50.00	\$50.00	\$53.00	\$53.00	\$54.59	\$54.59	Yes
Molybdenum		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Naphthalene		\$95.00	\$95.00	\$97.85	\$97.85	\$100.79	\$100.79	Yes
Nickel		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Nitrogen, Ammonia		\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes
Nitrogen, Nitrate		\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes
Nitrogen, Nitrite		\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes
Nitrogen, Nitrate + Nitrite		\$15.00	\$15.00	\$15.45	\$15.45	\$15.91	\$15.91	Yes
Nitrogen, Total		\$30.00	\$30.00	\$30.90	\$30.90	\$31.83	\$31.83	Yes
Nitrogen, Total Kjeldahl		\$15.00	\$15.00	\$15.45	\$15.45	\$15.91	\$15.91	Yes
Odor		\$15.00	\$15.00	\$15.45	\$15.45	\$15.69	\$15.91	Yes
Oil & Grease		\$50.00	\$50.00	\$51.50	\$51.50	\$53.05	\$53.05	Yes
Orthophosphate		\$12.00	\$12.00	\$12.36	\$12.36	\$12.73	\$12.73	Yes
pH		\$5.00	\$5.00	\$5.15	\$5.15	\$5.30	\$5.30	Yes
Phenol		\$25.00	\$25.00	\$25.75	\$25.75	\$26.52	\$26.52	Yes
Phosphorus, Total		\$12.00	\$12.00	\$12.36	\$12.36	\$12.73	\$12.73	Yes
Potassium		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Radium 226		\$75.00	\$75.00	\$77.25	\$77.25	\$79.57	\$79.57	No
Radium 228		\$90.00	\$90.00	\$92.70	\$92.70	\$95.48	\$95.48	No
Radium 226+228		\$150.00	\$150.00	\$154.50	\$154.50	\$159.14	\$159.14	No
Selenium		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Silver		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Sodium		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Specific Conductance		\$5.00	\$5.00	\$5.15	\$5.15	\$5.30	\$5.30	Yes
Sulfate		\$12.00	\$12.00	\$12.36	\$12.36	\$12.73	\$12.73	Yes
Sulfide		\$20.00	\$20.00	\$20.60	\$20.60	\$21.22	\$21.22	Yes
Temperature (C <sup>0</sup> )		\$2.00	\$2.00	\$2.06	\$2.06	\$2.12	\$2.12	Yes
Thallium		\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Total Organic Carbon		\$25.00	\$25.00	\$25.75	\$25.75	\$26.52	\$26.52	Yes
Total Dissolved Solids		\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes

Total Suspended solids	\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Total Solids	\$10.00	\$10.00	\$10.30	\$10.30	\$10.61	\$10.61	Yes
Turbidity	\$5.00	\$5.00	\$5.15	\$5.15	\$5.30	\$5.30	Yes
Uranium	\$90.00	\$90.00	\$92.70	\$92.70	\$95.48	\$95.48	Yes
Volatile Solids	\$15.00	\$15.00	\$15.45	\$15.45	\$15.91	\$15.91	Yes
Zinc	\$8.00	\$8.00	\$8.24	\$8.24	\$8.49	\$8.49	Yes
Primary Drinking Water Inorganics	\$150.00	\$150.00	\$154.50	\$154.50	\$159.14	\$159.14	Yes
Secondary Drinking Water Standards	\$125.00	\$125.00	\$128.75	\$128.75	\$132.61	\$132.61	Yes
Total Trihalomethanes	\$40.00	\$40.00	\$41.20	\$41.20	\$42.44	\$42.44	Yes
Total Haloacetic Acids	\$75.00	\$75.00	\$77.25	\$77.25	\$79.57	\$79.57	Yes
Volatile Organics	\$65.00	\$65.00	\$66.95	\$66.95	\$68.96	\$68.96	Yes
Synthetic Organic Cont (Excl. Dioxin)	\$575.00	\$575.00	\$592.25	\$592.25	\$610.02	\$610.05	Yes
AVOC	\$45.00	\$45.00	\$46.35	\$46.35	\$47.74	\$47.74	Yes
EPA 524	\$65.00	\$65.00	\$66.95	\$66.95	\$68.96	\$68.96	Yes
EPA 601	\$60.00	\$60.00	\$61.80	\$61.80	\$63.65	\$63.65	Yes
EPA 602	\$40.00	\$40.00	\$41.20	\$41.20	\$42.44	\$42.44	Yes
EPA 608	\$80.00	\$80.00	\$82.40	\$82.40	\$84.87		Yes
EPA 624	\$100.00	\$100.00	\$103.00	\$103.00	\$106.09	\$106.09	Yes
EPA 625	\$200.00	\$200.00	\$206.00	\$206.00	\$212.18	\$212.18	Yes
Priority Pollutants – Complete	\$530.00	\$530.00	\$545.90	\$545.90	\$562.28	\$562.28	Yes
TCLP - Sludge	N/A	\$675.00	N/A	\$695.25	N/A	\$716.11	Yes

Item 42. Additional Sampling Services							
42a	Hourly Rate for Sample Technician for Non-emergency responses			\$35.00		\$36.05	\$37.13
42b	Hourly rate for Sample Technician for Non-emergency expedited responses			\$50.00		\$51.50	\$53.05
42c	Hourly rate for Sample Technician for emergency responses			\$75.00		\$77.25	\$79.57
Item 43. Expedited and Emergency Testing							
Item No.	Event						
43a	Percentage increase in price for expedited testing	200%		200%			200%
43b	Percentage increase in price for emergency testing	300%		300%			300%