



Item:

City of Deerfield Beach Action Request for Agenda

PD818

Agenda Date: March 23, 2010

Date Submitted: April 5, 2010

Agenda Item Type

- | | | | |
|-------------------------------|--------------------------|-------------------------------|--------------------------|
| Written Request | <input type="checkbox"/> | Public Hearing | <input type="checkbox"/> |
| Public Hearing Second Reading | <input type="checkbox"/> | Quasi-Judicial Public Hearing | <input type="checkbox"/> |
| General Item | <input type="checkbox"/> | Consent Agenda | <input type="checkbox"/> |

Action to be Taken

- | | | | |
|--------------------|-------------------------------------|--------------------|--------------------------|
| Commission Action | <input checked="" type="checkbox"/> | Information | <input type="checkbox"/> |
| Commission Request | <input type="checkbox"/> | Staff Request | <input type="checkbox"/> |
| Public Request | <input type="checkbox"/> | Public Information | <input type="checkbox"/> |

Supporting Documents Attached: Yes No

Prepared by: Donna Council, Purchasing Agent

Description: Renewal of contract with Shrieve Chemical Company for the purchase of 93% sulfuric acid, in bulk for use in the Department of Public Works & Environmental Services, Water Plant Operations. Contract period will begin June 1, 2010 and expire on May 31, 2011.

Brief Summary

Fiscal Impact: Funding in the amount of \$226,397 was provided under account #401-5020-533-35-11 (Materials & Supplies: Chemicals). Total cost requested: \$85,954.10, a decrease of \$140,479.00. There currently is a fund balance in the chemical account of \$905,752.61 as of 4/4/2010.

Any back-up Justification from Budget: Yes, reference pages are attached.



MEMORANDUM

TO: Burgess Hanson, Interim City Manager

FROM: Donna M. Council, Purchasing Agent

DATE: April 5, 2010

SUBJECT: 93% Sulfuric Acid in bulk (H₂SO₄)

The contract for 93% sulfuric acid, in bulk, will expire on May 31, 2010 (Bid #2008-09/26). Under the terms and conditions of the bid, four (4) additional one (1) year extensions are available. The renewal is conditional upon mutual consent existing. Shrieve Chemical Company has signified their acceptance that a renewal period as acceptable and it is indicated in the attached letter.

This is a Southeast Florida Governmental Cooperative Purchasing Group Bid. The City of Deerfield Beach serves as the lead agency, with the Cities of Fort Lauderdale, Hollywood, Hallandale, Cooper City and Pompano Beach included as participating agencies. As the lead agency, the City of Deerfield Beach provides the administrative functions of soliciting, evaluating the bids and in initiating the award and any renewals. Each participating agency is responsible for entering into their own contracts with Shrieve Company Inc.

The Department of Public Works and Environmental Services, Water Plant Division requires the use of sulfuric acid (H₂SO₄) in its plant operations. The sulfuric acid bulk (H₂SO₄) supplied shall be listed by the National Sanitation Foundation (NSF) as being in full compliance with NSF Standard No. 60 for Drinking Water Treatment Chemicals – Health Effects. The sulfuric acid is used to lower the pH of the feed water to prevent calcium carbonate from precipitating onto the membrane surface during the treatment process.

In the 2009-10 budget the Department of Public Works and Environmental Services was funded \$226,397 for the purchase of a total of 722 tons of sulfuric acid (see attached). At that time we anticipated paying \$313.57 per ton.

Through the efforts of the co-op bid and its participants, collectively the five cities anticipate purchasing over 6,000 tons of sulfuric acid. This could achieve a savings of approximately over \$1,100,000 a year! The City of Deerfield Beach savings could be \$140,479.00 alone.

This is not a piggy-back. Municipalities and other governmental agencies, which are not members of the Southeast Florida Governmental Purchasing Cooperative, are strictly prohibited from utilizing any contract or purchase order resulting from this bid award.

When this bid was formulated last year, the product pricing for sulfur had been very volatile and the supply sometimes difficult to obtain. Due to total volume of a co-op group, we are now dealing with a wholesale supplier of the product. The market is still tight and supply is limited, however we are guaranteed an uninterrupted supply.

The contract price may be adjusted up or down, after the first six (6) months and then semi-annually based on the Weekly Green Market Sulfur Posting. On February 11, 2010, on behalf of the co-op group, I received notification that price will increase from \$92.03 a ton to \$119.05 beginning March 1, 2010. The next reference month will be July, 2010. Price adjustments can and will be made downwards as well as upwards.

Recommendation of award is made to renew the contract with Shrieve Chemical Company for the purchase of 93% sulfuric acid for a contract beginning June 1, 2010 – May 31, 2011. Approximate total expenditure \$85,954.10 (based on the current bid price)

Funds have been allocated in Budget Account #401-5020-533-35-11 – Materials and Supplies / Chemicals

enclosure

cc: Andrew Maurodis, City Attorney
Ada Graham-Johnson, City Clerk
Sally Siegel, Director of Management & Budget
Charles DaBrusco, Director of Public Works and Environmental Services
Wayne Miller, Water Plant Operator



fib

March 8, 2010

Ted Threadgill
Shrieve Chemical Company
65 Harbour Court
Winter Haven, FL 33884

Dear Mr. Threadgill:

The Southeast Florida Governmental Cooperative Purchasing Group Bid Contract to provide Sulfuric Acid 93% in Bulk from your company for the City of Deerfield Beach, Department of Engineering & Utilities – Water Plant Operations, (DFB Bid #2008-09/26) is due to expire on May 31, 2010.

Under the terms of the contract, there are four (4) additional one (1) year extensions available, providing mutual consent exists between the City and your company. All terms, conditions and specifications are contained within Bid #2008-09/26. If it is accepted and approved by the City Commission, it will begin June 1, 2010 and run through May 31, 2011.

Please advise if a one-year extension period of our current contract is acceptable to your company. Kindly indicate the appropriate information below and return this letter to my attention: City of Deerfield Beach Purchasing Division, 401 SW 4th Street, Deerfield Beach, FL 33441.

On behalf of the City of Deerfield Beach and the Southeast Florida Governmental Cooperative Purchasing Group, we look forward to continuing our successful association with your company.

If you have any questions concerning this letter, please contact me at (954) 480-4380.

Sincerely,

Donna M. Council
Purchasing Agent

YES, I hereby agree to a twelve month extension of the bid.

NO, I am unable to provide a twelve month extension of the bid.

Signature

3-23-10
Date

Ted Threadgill
Name (print)

For: Shrieve Chemical Co.

Mayor
Peggy Noland

Vice Mayor
Sylvia Poitier

Commissioners
Bill Ganz
Joseph P. Miller
Martin Popelsky

Interim City Manager
Burgess Hanson



**UTILITY FUND
EXPENDITURES BY OBJECT**

UTILITIES
Water Plant

Account Description	2006-07	2007-08	2008-09	2008-09	2008-09	2009-10
	Actual	Actual	Y-T-D Actual (Thru 3/31/09)	Y-T-D %age	Budget	Adopted Budget
Regular Salary	1,598,318	1,705,242	775,060	37	2,122,020	2,036,634
Overtime	87,314	95,806	58,292	78	75,000	75,000
Longevity	92,627	103,437	48,502	36	134,090	125,252
Basic Incentive	16,683	17,549	8,130	36	22,580	18,225
Sick/Vacation Pay Accrual	74,676	(8,699)	-	-	-	-
Sick Leave Conversion Pay	17,675	19,764	19,395	92	21,000	21,000
Clothing Allowance	-	-	-	-	-	9,000
<i>Salaries & Wages</i>	<u>1,887,293</u>	<u>1,933,099</u>	<u>909,379</u>	<u>38</u>	<u>2,374,690</u>	<u>2,285,111</u>
FICA	135,306	144,717	68,731	38	182,015	176,842
<i>Payroll Taxes</i>	<u>135,306</u>	<u>144,717</u>	<u>68,731</u>	<u>38</u>	<u>182,015</u>	<u>176,842</u>
Nonuniformed Pension Plan	204,354	88,528	25,428	50	50,855	151,806
ICMA Pension Plan	92,402	99,804	46,063	35	131,970	118,861
<i>Pension Contributions</i>	<u>296,756</u>	<u>188,332</u>	<u>71,490</u>	<u>39</u>	<u>182,825</u>	<u>270,667</u>
Programming/Software	299	449	694	28	2,500	2,000
SWIMM Program	-	-	-	-	200	200
Other Professional Services	59,167	110,921	29,135	17	175,000	150,000
<i>Professional Services</i>	<u>59,466</u>	<u>111,370</u>	<u>29,829</u>	<u>17</u>	<u>177,700</u>	<u>152,200</u>
Electrical Services	16,926	-	-	-	5,000	5,000
Service to Maintain Equipment	79,589	47,444	6,357	11	56,000	56,000
Service to Maintain Other	14,532	9,259	3,180	16	20,000	20,000
<i>Repair and Maintenance Svcs</i>	<u>111,047</u>	<u>56,703</u>	<u>9,537</u>	<u>12</u>	<u>81,000</u>	<u>81,000</u>
Other Contractual Services	-	-	-	-	-	10,000
<i>Other Contractual Services</i>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>10,000</u>
Electric	820,234	856,125	317,526	39	810,000	975,000
County Raw Water Charge	70,721	63,190	18,712	25	75,000	75,000
<i>Utility Services</i>	<u>890,955</u>	<u>919,315</u>	<u>336,238</u>	<u>38</u>	<u>885,000</u>	<u>1,050,000</u>
Pager Rental	236	300	94	-	-	-
<i>Communication Services</i>	<u>236</u>	<u>300</u>	<u>94</u>	<u>-</u>	<u>-</u>	<u>-</u>
Clothing Allowance	3,543	5,150	2,500	28	9,000	-
Office Supplies	2,293	2,879	959	24	4,000	4,000
Professional Publications	125	50	-	-	500	400
Chemicals	692,324	684,605	378,901	41	919,000	1,235,930
Clean and Sani Supplies	3,229	3,504	2,300	66	3,500	3,500
Minor Equip, Tools & Hdwe	8,092	2,647	1,464	4	40,251	35,251
Medical and Lab Supplies	21,570	31,138	11,111	34	33,000	30,000
Material to Maintain Bldg	1,358	1,726	2,540	10	24,379	25,000
Material to Maintain Equipment	161,982	162,088	71,971	28	256,000	200,000
Material to Maintain Other	12,664	455	104	1	10,000	10,000
Meters and Pipes	1,703	-	-	-	-	-
<i>Materials and Supplies</i>	<u>908,883</u>	<u>894,242</u>	<u>471,850</u>	<u>36</u>	<u>1,299,630</u>	<u>1,544,081</u>

Fiscal Year 2010

Account Balance Inquiry

17:13:33

Account number : 401-5020-533.35-11
Fund : 401 UTILITY FUND
Department : 50 UTILITIES
Division : 20 WATER PLANT
Activity basic : 53 PHYSICAL ENVIRONMENT
Sub activity : 3 WATER UTILITY SERVICES
Element : 35 MATERIALS AND SUPPLIES
Object : 11 CHEMICALS

Original budget : 1,235,930

Actual expenditures - current . . : 59,838.70
Actual expenditures - ytd . . . : 270,338.69
Unposted expenditures : .00
Encumbered amount : .00
Unposted encumbrances : .00
Pre-encumbrance amount : .00
Total expenditures & encumbrances: 330,177.39 26.7%
Unencumbered balance : 905,752.61 73.3

F5=Encumbrances F7=Project data F8=Misc inquiry
F10=Detail trans F11=Acct activity list F12=Cancel F24=More keys

PERSONAL SERVICES
DETAIL BUDGET INFORMATION
OCTOBER 1, 2009 TO SEPTEMBER 30, 2010

UTILITY FUND 401
 UTILITIES DEPARTMENT
 WATER PLANT DIVISION 5020-533

35-09 PROFESSIONAL PUBLICATIONS

This Year's Request	400
Last Year's Budget	500
Difference	(100)
% Change	-20.0%

Funds requested for magazines, books, safety and training manuals, laboratory manuals, reference books, as well as handouts informational booklets for tour groups.

35-11 CHEMICALS

This Year's Request	1,235,930
Last Year's Budget	919,000
Difference	316,930
% Change	34.5%

Funds requested for chemicals needed to treat water for consumption. Water quantities demands for the City have increased. An increase in quantities creates a higher demand for chemicals. The cost of chemicals has also experienced an increase. Increases in fuel costs have vendors charging higher surcharges for supplies. Surcharges on deliveries average .5% for each \$.05 increase in fuel costs. As of April fuel surcharges are running 20%-25%. The brackish Floridan water plant will come on line in Dec. 09.

1900 tons Lime	\$215.74/ton	\$409,906	
200 tons Chlorine	\$527.95/ton	\$105,590	
22,000 lbs Polymer	\$2.04/lb	\$44,880	
40,000 lbs Ammonia	\$0.73/lb	\$29,200	
15,000 lbs Fluoride	\$3.33/lb	\$50,250	
500 tons Sulfuric Acid	\$313.57/ton	\$156,785	✓
<hr/>			
65,000 lbs Anti-scalent	\$1.39/lb	\$90,350	
10,000 gals Sodium Hydroxide	\$2.19/gal	\$21,900	
92,857 lbs Ortho-corrosion inhibitor	\$1.20/lb	\$111,428	
222 tons additional Sulfuric acid (for new R.O. Plt.)	\$313.57/ton	\$69,612	✓
<hr/>			
18,260 lbs additional anti-scalent (for new R.O. Plt.)	\$1.39/lb	\$25,381	
119,454 gal sodium hypochlorate (for new R.O. Plt.)	\$1.01/gal	\$120,648	
	Total	<u>\$1,235,930</u>	\$226,397

35-12 CLEANING AND SANITATION SUPPLIES

This Year's Request	3,500
Last Year's Budget	3,500
Difference	-
% Change	0.0%

Funds requested for the cleaning and sanitary supplies needed for the Water Plant Division.

35-13 MINOR EQUIPMENT, TOOLS, HARDWARE

This Year's Request	35,251
Last Year's Budget	40,251
Difference	(5,000)
% Change	-12.4%

Funds requested for small tools, hardware and equipment for used by operators, maintenance personnel, instrumentation and control personnel, electrician and painter. Funds requested for the replacement of various digital meters for performing equipment

Shrieve Chemical Company

SOUTHEAST REGION OFFICE

65 Harbour Court
Winter Haven, FL 33884
(800) 367-4226
FAX: (863) 324-6575

CORPORATE OFFICE

1755 Woodstead Court
The Woodlands, TX 77380
(281) 367-4226
FAX: (281) 292-2014

TED THREADGILL
Business Manager-Sulfuric Acid

February 11, 2010

Ms. Donna Council
City of Deerfield Beach

Via email: dcouncil@deerfield-beach.com

Donna,

Per our agreement, and due to the 1st quarter 2010 increase in the Tampa Green Markets Sulfur posting to \$90.00 (attached), we will adjust your acid pricing effective March 1st to \$119.05.

Your acid price increase is \$29.60 per ton. This is figured using $(\$90 - \$10 = \$80)$ for the sulfur change and $(80 \times .37 = \$29.60)$ for your acid price change.

I believe we have used the month of July 2009 as the "reference month" with the August 10th posting of \$10.00. And now January is the "reference month" with the posting change February 1st to \$90.00. This will make our next reference month July 2010. I am giving you two weeks' notice to hopefully avoid any paperwork/billing issues.

This price change will affect all members of your co-op which include Deerfield Beach, Cooper City, Hallandale, Pompano Beach, and Ft. Lauderdale. Please let me know if I have missed any members.

Donna, since this is our first price change please review closely and let me know that I have properly followed our agreement. If you need anything else from me please let me know. I am assuming you will coordinate getting this change out to all municipalities involved. As discussed we have a "back to back" agreement with the producer to guarantee supply, so please be assured that even though the sulfur market has obviously tightened up, your supply of domestically produced, virgin, NSF acid is guaranteed.

Please let me know if you have any questions or corrections are needed to this correspondence.

Best Regards,



Ted Threadgill
Business Manager-Sulfuric Acid

**WEEKLY GREEN MARKET SULFUR POSTING
CHANGES ONLY 1996 - Current**

	DATE	Recovered Tampa (c)
1996	January 1	74.00 - 77.00
	January 22	69.00 - 71.00
	May 13	64.00 - 71.00
	June 24	64.00 - 66.00
	July 1	59.00 - 61.00
	October 27	61.00 - 63.00
1997	February 17	63.00 - 65.00
	April 21	66.00 - 68.00
1998	January 5	66.00 - 68.00
	February 2	63.00 - 66.00
	October 5	66.00 - 69.00
1999	January 11	70.00 - 73.00
	August 2	66.00 - 69.00
	October 18	61.00 - 64.00
2000	January 24	56.00 - 59.00
	October 30	63.00 - 66.00
2001	February 5	56.00 - 59.00
	April 9	41.00 - 44.00
	May 21	26.00 - 29.00
	October 15	31.00 - 34.00
2002	January 28	39.00 - 42.00
	April 15	43.00 - 46.00
	August 5	49.00 - 53.50
	August 12	49.00 - 52.00
	November 4	56.50 - 59.50
2003	January 27	60.50 - 63.50
	April 21	68.50 - 71.50
	July 28	64.50 - 67.50
	November 3	67.50 - 70.50
2004	August 23	63.50 - 66.50
	December 6	61.50 - 64.50
2005	July 25	66.50 - 69.50
	October 31	73.00 - 76.00
2006	May 29	66.50 - 69.50
	July 31	63.50 - 66.50
	October 9	58.50 - 61.50
2007	February 5	54.00 - 57.00
	May 7	59.50 - 62.50
	August 6	82.50 - 85.50
	November 5	110.50 - 113.50
2008	January 21	250.50 - 253.50
	April 21	450.50 - 453.50
	August 4	615.50 - 618.50
	November 3	150.00
2009	February 2	0.00
	May 11	5.00
	August 10	10.00
	November 9	30.00
2010	February 1	90.00

**CITY OF DEERFIELD BEACH INVITATION TO BID
SULFURIC ACID (BID #2008-09/26)
PART 1 - BID PRICE SHEET**

Item: Sulfuric Acid, 93%, bulk

Estimated Annual Quantity:

- | | |
|--|------------------------------------|
| 1) City of Deerfield Beach- 900 tons | 2) Cooper City - 1,750 tons |
| 3) City of Hallandale- 463 tons | 4) City of Pompano Beach- 900 tons |
| 4) City of Ft. Lauderdale - 2,230 tons | |

<u>Total Estimated Annual Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
6,250 tons	Sulfuric Acid, technical Grade, as specified herein	\$ <u>92.03</u> /ton	\$ <u>575,187.50</u>

Product offered: Sulphuric Acid

Manufacturer: TECO Polk Power Station, Mulberry, FL; Sulphuric Acid Trading Co., Inc, Tampa, FL

Percentage H2SO4: 93.19%

Minimum percentage of sulfuric acid 92.9 % Average percentage of sulfuric acid 93.3 %

Specific gravity at 60 degrees Fahrenheit: 1.8354 Product weight (pounds per gallon): 15.303

Iron as Fe (ppm) 15

Alternate: Other than Producer Price Index (PPI) for Chemicals and Allied) for *Chemicals and Allied Products, Industrial Chemicals, Inorganic Chemicals, Sulfuric Acid, Commodity Code 06130232. PPI Detailed Report, Table 6 - Commodity Groupings of Individual Items:*

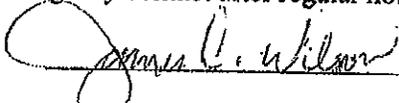
Name the index used for pricing adjustments (other than PPI) N/A

Bidders should submit with their bid proposal certified laboratory tests to substantiate minimum and average figures, along with a typical analysis of the sulfuric acid product offered listing all impurities. Technical product literature, applicable MSDS, and proof that the product has been approved by applicable Federal agencies for use in drinking water, should also be submitted with the bid.

Minimum order: 24 / tons Delivery time after receipt of order one calendar days

State telephone number for placement of orders: 800-633-1358

State telephone number for emergency contact after regular hours: 800-633-1358

Signature: 

Print Name: James C. Wilson Title: General Manager

Company Name: Sulphuric Acid Trading Company, Inc.

ATTACHMENT A

Questionnaire/References

Please print or type:

1. Provide three references for which you have performed similar services.

Company Name: City of Deerfield Beach, Water Treatment Plant

Address: 290 Goolsby Blvd., Deerfield Beach, FL 33442

Contact Name: Wayne Miller

Telephone 954-480-4369 email: wmiller@deerfield-beach.com

Company Name: City of Pompano Beach, Water Treatment Plant

Address: 301 NE 12th Street, Pompano Beach, FL 33060

Contact Name: Don Bayler

Telephone 954-545-7030 email: Donald.Bayler@copbfl.com

Company Name: City of Sunrise, Utilities Plant #3

Address: 14150 NW 8th Street, Sunrise, FL 33325

Contact Name: Doug Kerwin or Ray Jordan

Telephone 954-845-1025 email: _____

2. Number of years experience the Proposer has had in providing similar services: 20 Years

3. Have you ever failed to complete work awarded to you? If so, where and why?

No

4. List appropriate licenses as issued by Broward County.

N/A

5. Provide the previous three years of indexes for price adjustment indexes PPI or other.*Per Donna Council, this is not necessary if we are using the PPI index.

The proposer understands that the information contained in these proposal pages is to be relied upon by the City in awarding the proposed contract, and such information is warranted by the proposer to be true. The proposer agrees to furnish such additional information, prior to acceptance of any proposal relating to the qualifications of the proposer, as may be required by the City.

Please review the questionnaire to make sure all questions have been answered. Attach additional sheets if necessary. Failure to answer each question could result in the disqualification of your bid.



**BID #2008-09/26
SULFURIC ACID – BULK
(ADDENDUM #1)**

May 5, 2009

The following information is being submitted regarding the Invitation to Bid #2008-09/26 – Sulfuric Acid.

Addendum #1 is composed of the following information. Please make a note of this important information.

Consideration, at the discretion of the City of Deerfield Beach, may be allowed for price index other than the PPI.

Section 2.3 has been revised as follows:

2.3 **ADJUSTMENTS:** The price for all items as quoted herein shall remain firm for the first six (6) months of the contract. The contract price may be then be adjusted up or down semi-annually based on the Producer Price Index (PPI) for *Chemicals and Allied Products, Industrial Chemicals, Inorganic Chemicals, Sulfuric Acid, Commodity Code 06130232*. The data to be used will come from the PPI Detailed Report, Table 6 – Commodity Groupings of Individual Items (not seasonally adjusted) as published by the United States Bureau of Labor Statistics and available online at http://www.bls.gov/ppi/ppi_dr.htm. **Price adjustments will be considered, using an alternate index. In either case, the contractor will be required to provide a copy of the last three years of indexes with their bids and provide a copy of the index every quarter.**

2.3.1 The City will obtain the data and make any calculations, with notice to the Contractor. **Price adjustments can and will be made downwards as well as upwards.** For the first adjustment, the beginning “reference month” will be the month in which the contract began. The ending “reference month” will be the “reference month” six (6) months later, recognizing that the newest data is usually not available until approximately three (3) weeks after the end of the designated month. At the time of any future adjustments, the beginning “reference month” will be the ending “reference month” from the previous adjustment.

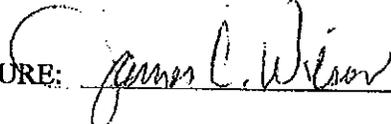
Example: If the contract began in April 2009 that would be the beginning reference month. Six months later would be July 2009. The data for July would be available approximately the third week of August. The price adjustment would be made in August. Six months from July would be January 2010. The data for January would be available approximately the third week of February. And so on.

Page 2

I have included revised Part 1 - Bid Price Sheets. Should you intend to use an index other than the PPI please use these sheets.

All other information remains the same. The opening date of 2:30 p.m., Friday May 8, 2009 will be unchanged. All bids must be received at the Office of the City Manager, 150 NE 2st Avenue, Deerfield Beach, FL 33441

A signed copy of the addendum should be included in your submission of the Proposal. Should you have any questions, please contact me at (954) 480-4381. Please accept my apology for any inconvenience this may have caused.

Sulphuric Acid
COMPANY NAME: Trading Company, Inc. SIGNATURE: 
CITY: Tampa STATE FL ZIP CODE: 33610-4299

Sincerely,



Donna Council
Purchasing Agent



THORNTON LABORATORIES, INC.
MARINE, ANALYTICAL AND ENVIRONMENTAL SERVICES

Bid #2008-09/26

1145 EAST CASS STREET, TAMPA, FLORIDA 33602
P.O. BOX 2880, TAMPA, FLORIDA 33601-2880
CompQAP# 860124G, HRS# 84147, E84100, E84324

TELEPHONE (813) 223-9702
FAX (813) 223-9332

Report For: SATCO
Sulphuric Acid Trading Company
102 West Whiting St., Ste 500
Tampa, FL 33602

26-Feb-2003
Page 1

Sample Identification:

Sulfuric Acid - 93%
TECO Polk Power Station
Mulberry, FL

Attn: Jimmy Wilson

Date Received: 21-Feb-2003

CERTIFICATE OF ANALYSIS

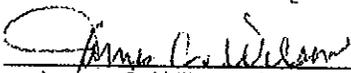
Parameter	Result	Units
Sulfuric Acid (H ₂ SO ₄)	93.3	%
Fluoride (F1)	<10.0	ppm
Lead (Pb)	< 0.5	ppm
Chloride (Cl)	10.0	ppm
Arsenic (As)	< 0.5	ppm
Selenium (Se)	1.0	ppm
Nitrates (NO ₃)	< 5.0	ppm
Heavy Metals (Fe)	9.0	ppm
Reducing Substances	20.0	ppm
Residue	0.005	%

THORNTON LABORATORIES, INC.

93% Sulphuric Acid

Typical Analysis

Strength	93.50%
Specific Gravity @ 60° F	1.8354
Freezing Point	-29° F
Arsenic (As)	<0.02 PPM
Ammonia	<0.01 PPM
Antimony (Bb)	<0.01 PPM
Barium (Ba)	<0.4 PPM
Cadmium (Cd)	<0.02 PPM
Chromium (Cr)	<0.25 PPM
Chloride (Cl)	<0.2 PPM
Copper (Cu)	<0.05 PPM
Hardness as CaCO ₃	<5 PPM
Iron (Fe)	<15 PPM
Lead (Pb)	<0.2 PPM
Manganese (Mn)	<0.15 PPM
Mercury (Hg)	<0.001 PPM
Nickel (Ni)	<0.15 PPM
Nitrates	<5 PPM
Selenium (Se)	<0.01 PPM
Silver (Ag)	<0.05 PPM

Certified by: 
James C. Wilson, General Manager

Date: May 06, 2009

Average % Sulphuric Acid - Part 1, Page 18 - Bid #2008-09/26

TECO Polk Power Station Daily Analysis

Date	%	Fe	SO2
1/1/09	nr		
1/2/09	93.1	10	13
1/3/09	92.8		
1/4/09	92.8		
1/5/09	93.9	17	22
1/6/09	93.9	15	23
1/7/09	93.9	11	21
1/8/09	93.6	12	17
1/9/09	93.6	11	20
1/10/09	93.4		
1/11/09	nr		
1/12/09	93.4	10	23
1/13/09	93.3	10	22
1/14/09	93.1	10	21
1/15/09	93.4	9	21
1/16/09	93.4	11	25
1/17/09	93.1		
1/18/09	93.3		
1/19/09	93.5	10	27
1/20/09	93.7	7	29
1/21/09 plant down	93.4	13	33 noon
1/22/09 plant down	93.6	21	22
1/23/09 plant up	93.6	20	25 noon
1/24/09	93.3		
1/25/09	93.1		
1/26/09	92.9	20	17
1/27/09	93	14	19
1/28/09	93	14	17
1/29/09	92.9	11	17
1/30/09	92.7	12	24
1/31/09	93	16	24
2/1/09 plant down	93	17	21 at least 30 days

AVG

93.29

or

93.30%

**AMENDMENT TO AGREEMENT FOR FURNISHING AND DELIVERY OF SULFURIC ACID 93% IN BULK
BETWEEN CITY OF DEERFIELD BEACH AND SHRIEVE CHEMICAL COMPANY.**

THIS AMENDMENT TO AGREEMENT, made and entered into the _____ day of _____, 2010
by and between:

CITY OF DEERFIELD BEACH, FLORIDA
a municipal corporation
150 NE 2nd Avenue
Deerfield Beach, FL 33441
(hereinafter referred to as "CITY")

AND

SHRIEVE CHEMICAL COMPANY
65 Harbour Court
Winter Haven, FL 33884
(hereinafter referred to as "CONTRACTOR")

WHEREAS, on June 2, 2009, the CITY entered into an agreement with Shrieve Chemical Company to furnish and deliver Sulfuric Acid 93% in Bulk to each of the City's storage facilities and the current Agreement expires on May 31, 2010, with the option to renew for four (4) additional twelve (12) month renewal periods under the same terms and conditions; and

WHEREAS, CITY and CORPORATION are desirous of extending the term of the Agreement for an additional one (1) year period,

NOW, THEREFORE in consideration of the mutual promises and covenants contained herein, and other good and valuable consideration, the receipt and adequacy of which are acknowledges, the parties agree as follows:

Section 1. The above recitals are acknowledged and incorporated herein.

Section 2. **TERM OF AGREEMENT**

The term of this Agreement shall be extended through May 31, 2011, unless otherwise terminated pursuant to the terms of the original Agreement.

Section 3. Exhibit "A" of the original Agreement is hereby amended, effective June 1, 2010, as attached hereto:

Section 4. All other conditions and terms of the original Agreement, not specifically amended herein, remain in full force and effect.

Section 5. **SEVERABILITY**

Should any part, term or provision of this Amendment be by the courts decided to be illegal or in conflict with any law of the State, the validity of the remaining portions or provisions shall not be affected thereby.

Section 6. This Amendment shall be effective upon the execution of both parties.

Section 7. **NO REPRESENTATION BY CITY**

Neither CITY nor their officers, agents and/or employees have made any representation or promises except as expressly set forth in this Agreement.

Section 8. **NOTICES**

All notices and other communications required or permitted under this Agreement shall be in writing and given by:

- 1) Hand delivery
- 2) Registered or certified mail, return receipt requested,
- 3) Overnight courier, or
- 4) Facsimile to:

CITY:

City of Deerfield Beach
150 NE 2nd Avenue
Deerfield Beach, FL 33441

COPY TO:

Donna Council, Purchasing Agent
City of Deerfield Beach
401 SW 4th Street
Deerfield Beach, FL 33441

CONTRACTOR:

SHRIEVE CHEMICAL COMPANY
65 Harbour Court
Winter Haven, FL 33884

Witness:

CONTRACTOR: Shrieve Chemical Company

By: _____

Date: _____

CITY

CITY OF DEERFIELD BEACH, a municipal
Corporation

By: _____

Mayor

Date: _____

Attest:

By: _____

City Clerk

EXHIBIT "A"

**Amendment to Agreement for 93% Sulfuric Acid for
Southeast Florida Governmental Purchasing Cooperative Group**

93% sulfuric acid, bulk, to the Southeast Florida Governmental Purchasing Cooperative Group, from June 1, 2010 to May 31, 2011.

- Sulfuric Acid 93% Bulk: \$119.05 ton, based on 93% analysis.
- All pricing quotes is delivered and include all fuel surcharges.
- The contract price may then be adjusted up or down semi-annually based on the Weekly Green Market Sulfur Posting. The next reference month will be July, 2010. Price adjustments can and will be made downwards as well as upwards.