

MANATEE COUNTY GOVERNMENT

AGENDA MEMORANDUM

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SUBJECT	Landfill Daily Cover Tarping Machine	TYPE AGENDA ITEM	Consent
DATE REQUESTED	February 24, 1998	DATE SUBMITTED	February 23, 1998
BRIEFINGS?	None	CONSEQUENCES IF DEFERRED	FDEP Permit Denial
DEPARTMENT/OFFICE DIVISION	Financial Management Purchasing	AUTHORIZED BY TITLE	Jim Seuffert Director <i>JCS</i>
CONTACT PERSON TELEPHONE/EXTENSION	Gus DiFonzo/Dennis Reynolds 5443/3045	PRESENTER TELEPHONE/EXTENSION	Len Bramble, Public Works Director 5244
ADMINISTRATIVE APPROVAL	<i>[Signature]</i>		

INDICATE WHETHER "REPORT," "DISCUSSION," or "FORM OF MOTION" or "OTHER ACTION REQUIRED:"

Authorization for sole source purchase from Tarpomatic, Inc., Canton, Ohio for a 40' Automatic Tarping Machine including fabrication and mounting, an additional tarp spool, four (4) 40' x 100' tarp panels and steel cables for a total of \$64,954

ENABLING/REGULATING AUTHORITY: (Federal and/or state laws[s], administrative ruling[s], Manatee Comp Plan, Land Development Code, ordinances, resolutions, and/or County policy).

Ordinance 84-02, Procurement Code Section 3-105, which governs sole-source procurement

BACKGROUND/DISCUSSION

- Public Works, Landfill Operations currently uses dirt as its daily landfill cover at the Lena Road landfill. This daily cover method requires an average of 277 cubic yards per day, five days per week or 72,020 cubic yards per year and the use of dirt as cover on a daily basis is decreasing the useful life of the landfill site by one (1) month per year

see page 2

HAS COUNTY ATTORNEY REVIEW BEEN REQUESTED? Please indicate "N/A", "NO" or "YES." NO

IF N/A OR NO, PLEASE EXPLAIN:

Not required. This is a pre-printed purchase order form using the County's terms and conditions.

IF A CONTRACT, AGREEMENT, LEASE OR OTHER DOCUMENT IS SAME AS APPROVED IN PREVIOUS YEARS, STATE YEAR OF LAST USE: N/A

- IF "YES,"**
- 1) HAS ENTIRE MATTER, OR ONLY A PORTION, BEEN REVIEWED BY THE COUNTY ATTORNEY'S OFFICE?
 - 2) HAVE ALL COMMENTS/SUGGESTIONS BEEN ADDRESSED/INCORPORATED; IF NOT, PLEASE EXPLAIN.
 - 3) ATTACH COPY OF FINAL MEMORANDUM OF THE COUNTY ATTORNEY'S OFFICE RELATED TO THIS MATTER.

ATTACHMENTS:

- 1 Memorandum from Public Works
- 2 Sole Source Justification

INSTRUCTIONS TO BOARD RECORDS:

None

COST	\$64,954.00	SOURCE (ACCT# & NAME)	480 0010900 564000 Machinery & Equipment
COMMENTS	N/A	FISCAL IMPACT STATEMENT	N/A
		RECURRING COSTS FREQUENCY OF OCCURRENCE	N/A

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Prepared by D. M. Reynolds, February 23, 1998 (12:27pm)

APPROVED IN OPEN SESSION

FEB 24 1998

BOARD OF COUNTY COMMISSIONERS
MANATEE COUNTY, FLORIDA

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AGENDA MEMORANDUM (Continued)


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- Public Works, Solid Waste Division has requested the sole source purchase of an Automatic Tarping Machine to put down tarps as a temporary daily landfill cover instead of using dirt on a daily basis. The tarps can be removed and used again and again until the final dirt covering is put down. The tarping method would reduce the need to use dirt on a daily basis to every fourth or fifth day.
- The first year cost of the tarping method is \$64,954.00 with recurring cost of \$4,350 per year for tarp replacement.
- Cost savings comparisons can be found in the attached memorandum from Public Works.
- The tarping equipment will be expedited with expected delivery within sixty (60) days of issuance of a purchase order.

MANATEE COUNTY GOVERNMENT

1998 FEB 19 AM 9:08
RECEIVED - MANATEE
COUNTY GOVERNMENT

MEMORANDUM

DATE: February 13, 1998
TO: Rob Cuthbert, CPM, Purchasing Manager
FROM: Len Bramble, P.E., Public Works Director 
SUBJECT: Landfill Alternate Daily Cover

As I am certain you are well aware, the Public Works Department has been evaluating a variety of alternate daily cover methods, items, and techniques. Purchasing staff has been involved in these evaluations, primarily through the efforts of Gus DiFonzo and Ben Alex. The purpose of this memorandum is for me to express my concerns over the timeliness of this evaluation (and eventual purchase or acquisition of related items) and the direction of staff efforts from this point forward.

This subject is of the utmost importance to the Public Works Department. Every week we apply daily cover of dirt at the landfill working face for each of the six days that the landfill is open. Our calculations indicate that this daily cover of dirt is at an average rate of 277 CY (cubic yards) of dirt per work day. While we must apply daily cover all six days of the week that we are normally open, the requirement of dirt as a daily cover could be reduced to one day of the week (the last day; end of week) with an approved alternate daily cover being applied on days one through five.

This would have a very significant impact upon the day to day operations of the landfill, as well as extending the useful life of the landfill. As you can see on the attached alternate daily cover comparison table, use of an alternate daily cover is projected to:

- (1) avoid the costs associated with purchasing and handling (excavation, hauling, stockpiling, rehauling, and application, including staff and equipment time) 72,020 CY of dirt per year
- (2) create (or save) space in the landfill for the disposal of permitted solid wastes at the rate of 43,212 tons per year
- (3) increase the life expectancy of our landfill by approximately one month every year (8%)

As you can see, alternate daily cover appears to have immediate and quantifiable benefits. Through our collaborative efforts with Purchasing staff we have evaluated a number of alternate daily cover alternatives, and have evolved to the point that one of these alternatives, in our opinion, stands out from the others as one that we believe would function best at our landfill. This alternative is the Tarpomatic. Staff, including myself, observed this device at the Orange County landfill, and were most impressed with its simplicity of design and operation, the speed at which it can be applied at the end of the day and removed prior to the start of the work day, its ability to be easily applied on flat or sloping areas, the quality of construction of the apparatus, the favorable initial and recurring costs, and the reception of FDEP to the concept.

In my opinion we should not delay in acquiring an appropriate and approvable alternate daily cover at the landfill. The sooner an alternate daily cover is implemented, the sooner we achieve savings and maximize the remaining life of the landfill. It is my understanding that through our collaborative efforts with Purchasing that this item may have evolved into a potential "sole source" purchase, and that there are outstanding questions pertaining to same. **What can I do to help this process along?** I certainly do not wish this item to lay dormant for any length of time as savings in other areas hang in the balance.

Thank you for your assistance with this matter.

attachments

140-120-11394

cc: Dan Gray, Utilities Operations Division Manager
Gus DiFonzo, Solid Waste Manager
Ben Alex, Solid Waste Technical Coordinator

LENA ROAD LANDFILL ALTERNATE DAILY COVER COMPARISON

RUSMAR FOAM		TAROMATIC	
1. Pounds of Concentrate	92,000	1. 40' Automatic Trapping Machine	\$45,000
2. Gallons of Concentrate	11,030	2. Fabrication and Mounting	\$1,800
3. Working Face S.F.	15,000	3. Additional Spool	\$3,286
4. Usage Gall. per S.F.	0.012	4. 40' x 100' Panels	\$8,700
5. Gallons Required per Day	180	5. Steel Cable	\$3,168
6. Days of Product Life	61	6. Initial Cost	\$61,954
7. Cost of 92,000 Gallons	\$64,400	7. Reoccurring Cost per Year	\$4,350
8. Cost per Day	1,051		
9. Cost per Year	\$273,295		

RUSMAR NOTES:

- 92,000 lbs is the minimum purchase for initial investment. Cost does not include a maximum payment of \$11,000 for freight.
- Pounds of concentrate converted to gallons based on density of 62.4 lbs/cu ft.
- Estimated average working face of 100' x 150'.
- Given by vendor.
- Product cost \$0.70 dollars per gallon. Given by vendor.
- Assumes using product 5 days per week.
- Assumes a 260 day work year.

TAROMATIC NOTES:

- Base price for trapping machine.
- Vendor quote for fabrication and mounting.
- Assumes one additional spool for increased speed and efficiency.
- Assumes purchase of four panels at 40' x 100'.
- Assumes 9, 40 foot cables in each of the four panels.
- Initial cost does not include freight of \$3,000 to Orlando.
- Reoccurring cost assumed to be the panels at 2 additional per year.

COMMON NOTES:

- The volume covered by either ADC method is the same and equal to 277 C.Y. per day.
- 277 C.Y. per day at 260 days per year is 72,020 C.Y. per year.
- Assuming and replace density for refuse at 1,200 lbs per C.Y., 72,020 C.Y. is 43,212 tons of refuse.
- Assuming a tipping fee of \$23.00 per ton, 43,212 tons is an additional \$993,876 per year.
- 43,212 tons is approximately one month of refuse.

CONCLUSION:

The Taromatic machine and tarps are less expensive than the Rusmar foam, obviously. Rusmar indicates in their proposal that soil cost approximately \$0.04 per sq. ft. versus \$0.07 per sq. ft. for the foam. It appears that the basis of Rusmar's proposal is savings associated with volume. However when you compare ADC with ADC and assume they save approximately the same landfill volume Taromatic is clearly the preferred alternative.

**MANATEE COUNTY PURCHASING
WRITTEN DETERMINATION FOR
SOLE SOURCE PROCUREMENT**

Date: 2/23/98**CONTROL NO.:** 2099**Buyer:** DR**Using Department:** Public Works

Authority is requested to make the following purchase under the provisions of the Procurement Code, Manatee County, Florida, Article 3, Source Selection and Contract Formation, Paragraph 3-105, Sole Source Procurement.

Description: Landfill Daily Cover Tarping Machine**Account Number:** 4800010900564000**Requisition Number:****Price:** 64,954.00**Vendor Name:** Tarpomatic, Inc.**Conditions/Circumstances of this Non-Competitive Purchase as a SOLE SOURCE:**

Tarpomatic, Inc. holds the patent to this automatic tarping system.

There are no other automatic tarping machine systems on the market that can meet our needs. This system has been approved by the State of Florida Department of Environmental Protection.

I, the undersigned, certify the above to be true and correct to the best of my knowledge and belief.

Buyer

Date

Contract & Buyer Manager

Date



Purchasing Manager

2/23/98
Date

List of attachments:

- Letter from Vendor.
- Pricing sheet.
- Public Works memo.

Manatee County Public Works
233 Leca Rd
Bradenton, Florida

Attn: Gus DiFonzo

JMW Welding and Manufacturing Inc. has designed and manufactured a tarping machine for deploying and retrieving flexible sheeting made in long lengths and wide widths.

JMW Welding and Manufacturing received a US Patent on April 19, 1994. The US Patent number is 5304014. The patent has a very broad coverage. In the event that a company would build a similar machine, the company would be clearly infringing on the patent. Also, the organization who purchased the Automatic Tarping Equipment would be liable for damages.

In October of 1995, Tarpomatic Inc. was formed for the sole purpose of manufacturing and selling the Automatic Tarping Equipment. The owners of JMW Welding and Manufacturing are also partners in Tarpomatic, Inc.

If you have any questions, please feel free to call anytime between 8am - 5 pm weekdays

Sincerely,



Dave Collinsworth