



# COUNTY OF MARIPOSA

P.O. Box 784, Mariposa, CA 95338 (209) 966-3222

JANET BIBBY, CHAIR  
LYLE TURPIN, VICE CHAIR  
BRAD ABORN  
DIANNE A. FRITZ  
BOB PICKARD

DISTRICT III  
DISTRICT II  
DISTRICT I  
DISTRICT IV  
DISTRICT V



## MARIPOSA COUNTY BOARD OF SUPERVISORS

### MINUTE ORDER

---

TO: DANA HERTFELDER, Public Works Director  
FROM: MARGIE WILLIAMS, Clerk of the Board *MW*  
SUBJECT: Waive the Formal Bid Process and Authorize the Purchase of a Tarpomatic System at a Cost not to Exceed \$71,000 for the Solid Waste & Recycling Division for Landfill Alternative Daily Cover, and Approve Budget Action to Transfer Appropriations and Reduce Contingency within the Solid Waste Fund to Cover the Purchase (4/5ths Vote Required) (\$71,000)

RESOLUTION 07-179

THE BOARD OF SUPERVISORS OF MARIPOSA COUNTY, CALIFORNIA

ADOPTED THIS Order on May 1, 2007

#### ACTION AND VOTE:

B) Waive the Formal Bid Process and Authorize the Purchase of a Tarpomatic System at a Cost not to Exceed \$71,000 for the Solid Waste & Recycling Division for Landfill Alternative Daily Cover, and Approve Budget Action to Transfer Appropriations and Reduce Contingency within the Solid Waste Fund to Cover the Purchase (4/5ths Vote Required) (\$71,000)

**BOARD ACTION:** Discussion was held with Dana Hertfelder and Steve Engfer/PWD-Solid Waste and Recycling Manager, relative to the request. Supervisor Aborn asked about the potential damage that bears could cause to the tarps. Carl Casey/Public Works Administrator responded to a question from the Board relative to the funding for this.

Input from the public was provided by the following:

Paul Chapman asked what will be used for a dozer, questioned the need for a wireless remote control, and he asked why the formal bid process is not being used.

Carl Casey responded that this is a unique piece of equipment and it is sold only by the manufacturer; and it is approved for use in California landfills. Further discussion was held. (M)Pickard, (S)Turpin, Res. 07-179 was adopted waiving the formal bid process and authorizing the purchase and budget action as recommended/Ayes: Unanimous.

Cc: Chris Ebie, Auditor  
Mary Hodson, Deputy CAO  
File

DEPARTMENT: Public Works/Solid Waste

BY: Dana S. Hertfelder  
PHONE: 966-5356

RECOMMENDED ACTION AND JUSTIFICATION:

Due to the unique and proprietary nature of the equipment, waive the formal bid process and authorize the purchase of a Tarpomatic System at a cost not to exceed \$71,000 for the Solid Waste & Recycling Division for landfill alternative daily cover, and approve Budget Action to transfer appropriations within the Solid Waste budget to cover the purchase.

The Tarpomatic is a unique piece of equipment that is approved for use in California landfills. It is used widely in California. The model we plan to purchase would be a 20 foot wide mechanism that would attach to the front of the bulldozer that would lay out and roll up tarps to cover the daily refuse brought into the landfill. The cost of soil cover delivered to the landfill has risen tremendously over the past few years to approximately \$11.50 per cubic yard. In order to meet regulatory compliance requirements for daily cover we estimate at least \$103,000 dollars in cover annually, even with the permitted use of 25% MSW Compost alternative daily cover.

Estimated savings in avoided soil cover costs alone in one year would pay for the machine and the tarps necessary for a complete system. The cost of the system is \$70,288. In our original budget request for this fiscal year we had planned on purchasing this equipment but thought we would have to finance the purchase over a four-year period. The Budget Action utilizes the funds included for the first annual payment as well as savings in the Cost Allocation Plan and Contingency in order to purchase the equipment outright. This will result in savings of approximately \$9,000 in interest expense.

The system will assist for daily cover compliance, save money, airspace, and reduce safety issues. It will also help control landfill odors and vectors.

BACKGROUND AND HISTORY OF BOARD ACTIONS:

The Board directed the Public Works Department to operate the Landfill, Compost Facility and Recycling Center at its meeting of December 6, 2005, Res. No. 05-574.

ALTERNATIVES AND CONSEQUENCES OF NEGATIVE ACTION:

Financial Impact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Current FY Cost: \$70,288	Annual Recurring Cost: \$
Budgeted In Current FY? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially Funded		
Amount in Budget: <u>\$ 81,372</u>		List Attachments, number pages consecutively
Additional Funding Needed: <u>\$ 116,128</u>		<u>1. Background Memo for Purchase</u>
Source:		<u>2. Budget Action</u>
Internal Transfer <u>X</u>		
Unanticipated Revenue _____	4/5's vote	
Transfer Between Funds _____	4/5's vote	
Contingency <u>X</u>	4/5's vote	
<input type="checkbox"/> General <input checked="" type="checkbox"/> Other		

CLERK'S USE ONLY:

Res. No.: 07.179 Ord. No. \_\_\_\_\_  
Vote - Ayes: 5 Noes: \_\_\_\_\_  
Absent: \_\_\_\_\_  
6/20/07 Approved  
 Minute Order Attached  No Action Necessary

COUNTY ADMINISTRATIVE OFFICER:

\_\_\_\_\_ Requested Action Recommended  
\_\_\_\_\_ No Opinion  
Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The foregoing instrument is a correct copy of



# COUNTY of MARIPOSA

DEPT. OF PUBLIC WORKS



4639 Ben Hur Road  
Mariposa, CA 95338  
(209) 966-5356

Admin	Solid Waste
Airport	Facilities
Engineering	Fleet
Roads	Parks & Rec
Transportation	

**Dana S. Hertfelder**  
Director



**TO:** Dana Hertfelder, Director  
Carl Casey Administrator

**FROM:** Steve Engfer *SEE*

**DATE:** March 16, 2007

**SUBJECT:** Tarpomatic Purchase

## Background

As you know soil cover for daily cover of the working face at the landfill has become expensive. You also know that there have been compliance issues in the past related to working face cover and daily cover stockpile. Additionally cover is important for vector controls and odor controls. Historically cover for the site has been difficult due to the lack of available cover on site. Due to the importance of the daily cover item both in dollars and compliance we have been investigating options for Alternative Daily Cover (ADC) to reduce costs, stay in compliance and save airspace. The MSW Compost Facility product of ADC has been approved and this definitely helps extend soil cover and thus reduces costs. However, current regulations allow 25% of the cover to be compost. There are opportunities for demonstrating to the Local Enforcement Agency the effectiveness of the Compost ADC for an increase, but this is not guaranteed. Therefore, in order to reduce ongoing expenses further for daily cover we have gathered data for an ADC Tarp applicator system. While we have used ADC tarps in the past, it has proven difficult and time consuming for staff to pull the heavy tarps along the working face. Also, the tarps get damaged easier due to snagging on the material and there is increased risk for staff to be walking around in the working face garbage while applying the tarps.

We have identified a product that other operating landfills have found to be excellent for applying the tarps through a mechanized apparatus that attaches to equipment typically used at landfills such as dozers and compactors. You are aware of the product, the Tarpomatic. It is in use at many California landfills as well as other states. In California we contacted operators at Tulare County Landfill, Sacramento County Landfill, Lassen County Landfill, Butte County Landfill, and Bena Landfill. Generally, all of the contacts were satisfied with the product. No significant breakdowns or inordinate maintenance issues were mentioned. It was noted that routine maintenance, as is with any equipment, is important for efficient use. I believe one observation regarding a bearing in a motor was mentioned. We also visited Fink Road Landfill, Stanislaus County and witnessed the use of the Tarpomatic during operations. Film clips and photos of the machine are attached on the CD. (I can help you view them if needed) Even though Stanislaus County Landfill has ample, actually huge amounts of soil available on-site, they still use the Tarpomatic for ADC, time savings and airspace savings.

*Solid Waste & Recycling Division*  
Phone (209) 966-5165  
Fax (209) 966-7453

Mariposa County



*Help Keep Mariposa  
Clean and Proud!  
Reduce, Reuse and Recycle*

[landfill@mariposacounty.org](mailto:landfill@mariposacounty.org)

[www.mariposacounty.org](http://www.mariposacounty.org)

# COUNTY of MARIPOSA



4639 Ben Hur Road  
Mariposa, CA 95338  
(209) 966-5356

## DEPT. OF PUBLIC WORKS

Admin	Solid Waste
Airport	Facilities
Engineering	Fleet
Roads	Parks & Rec
Transportation	

**Dana S. Hertfelder**  
**Director**

Basically, this is a unique piece of equipment and although I checked on another source, it appears that the Tarpomatic is the machine used on the west coast. The machine is widely used in California. This is important because of the regulatory requirements and the necessity to be certain that the equipment and tarps are acceptable by regulations. It is also used in other western states such as New Mexico, Washington, Oregon, Idaho, Utah, Arizona and others. I have attached a list of references.

### Costs and Savings

#### **Soil Cover without Tarpomatic**

The current scenario applies to Mariposa county landfill for daily cover.

2500 working face size covered daily by permit. This would be 2500 CF at one foot deep.

Daily cover is required at 6 inches by regulations. Therefore it would be 1250 CF, (1/2).

1250 CF daily x 365 days = 456,250 CF annually

456,250 CF/ 27 (CF Per CY)=16,898 CY annually for daily cover.

(Round to 17,000 CY for ease of calculations)

Going rate per latest estimates for soil cover delivered is \$11.50 CY (Outback and Mark Long Tractor is comparable)

Even if we used only approximately 3/4 of the amount required that would equal about 12,000 CY annually.

12,000 CY x going rate @ \$11.50 delivered= \$138,000

Reduced cost by 25% offset as ADC from the Compost Facility is used, annually = \$103,000.

*Solid Waste & Recycling Division*  
*Phone (209) 966-5165*  
*Fax (209) 966-7453*

[landfill@mariposacounty.org](mailto:landfill@mariposacounty.org)

*Mariposa County*



*Help Keep Mariposa*  
*Clean and Proud!*  
*Reduce, Reuse and Recycle*

[www.mariposacounty.org](http://www.mariposacounty.org)

# COUNTY of MARIPOSA

DEPT. OF PUBLIC WORKS



4639 Ben Hur Road  
Mariposa, CA 95338  
(209) 966-5356

Admin	Solid Waste
Airport	Facilities
Engineering	Fleet
Roads	Parks & Rec
Transportation	

**Dana S. Hertfelder**  
**Director**

## Soil Cover with Tarpomatic Costs

Even with the use of ADC tarps through the Tarpomatic we would still have to apply cover every 14 days, as is required in the existing permit report of disposal site information (RDSI). Even though we can mix Compost ADC, to be conservative I left it at full soil cover for calculations. The total application days annually at every 14 days are 26 days. Therefore, a need for 26 days of cover would apply. This cost would be:

$26 \text{ days} \times 1250 \text{ CF} = 32,500 \text{ CF}$

$32,500 \text{ CF} / 27 \text{ CF (CY)} = 1203.7$  (round to 1204)

$1204 \text{ CY} \times \text{going rate @ } \$11.50 \text{ CY delivered} = \$13,846$  annually

Estimated Savings in Soil cover with Tarpomatic ADC Tarps =  $\$103,000.00 - \$13,846 = \$89,154$  annually

## Tarpomatic Purchase and Costs

Total Costs Purchase (attached- quote) \$70,288.43

## Conclusion:

Tarpomatic is a unique piece of equipment that is approved for use in California Landfills. It is used widely in California. It will save us money and airspace as well as help us be in compliance for daily cover. It will also help control landfill odors and vectors.

Estimated savings in avoided soil cover costs alone in one year would pay for the machine and the tarps necessary for a complete system. The estimated life of the tarps with proper handling is 3 years. The cost of replacement of the tarps per the quote would be about \$5000.00 every 3 years.

We also have looked into financing options and I have attached that information. I recommend we draft a Board item as soon as possible to purchase this unique and important item for the landfill. Please let me know of your decision and I will draft a Board item for the purchase. I am happy to provide additional information if needed.

Thank you.

Solid Waste & Recycling Division  
Phone (209) 966-5165  
Fax (209) 966-7453

[landfill@mariposacounty.org](mailto:landfill@mariposacounty.org)

Mariposa County



Help Keep Mariposa  
Clean and Proud!  
Reduce, Reuse and Recycle

[www.mariposacounty.org](http://www.mariposacounty.org)

3