AGENDA DATE: 5/23/95 AGENDA ITEM NO.: 5-A

DEPARTMENT: Public Works

By: Thomas J. Starling Phone: 966-5356

Solid Waste Coordinator

RECOMMENDED ACTION AND JUSTIFICATION:

(Policy Item: Yes No

Presentation of the State-mandated Closure/Post Closure Plan (C/PC Plan) prepared by James A. Wyse, Inc. Public Works recommends that the Board of Supervisors approve this document for submittal.

The C/PC Plan is mandated by the California Integrated Waste Management Board (CIWMB), the Regional Water Quality Control Board (RWQCB) and the Department of Toxics. The report focuses on the estimated life of the landfill, closure methodology and costs and postclosure care and costs.

Jim Wyse, P.E. will present the C/PC Plan and answer questions.

BACKGROUND AND HISTORY OF BOARD ACTIONS:

This issue was first brought before the Board on March 8, 1994, with a recommendation to proceed with the plan preparation, but was not passed as the C/PC Plan was not to be provided to the State until 1995.

The Board approved the award of the contract for the C/PC to James A. Wyse, Inc. on October 10, 1994.

Copies of the draft plan have been available at the Board offices for review since April 25.

LIST ALTERNATIVES AND CONSEQUENCES OF NEGATIVE ACTION:

- 1) Direct that revisions to the C/PC Plan be made as may be determined by the Board during discussion.
- 2) Do not approve the C/PC Plan and direct staff to request another professional services solicitation.

COSTS: (X) Not Applicable A. Budgeted current FY B. Total anticipated costs C. Required additional funding	SPECIAL INSTRUCTIONS: List the attachments and number the pages consecutively:
D. Internal transfers \$	
SOURCE: () 4/5th Vote Required A. Unanticipated revenues B. Reserve for contingencies C. Source description: Balance in Reserve Contingencies, if approved: \$	
CLERK'S USE ONLY Res. No.: Vote - Ayes: Absent: Approved () Minute Order Attached CLERK'S USE ONLY Noes: Abstained: Abstained: () Denied () No Action Necessary	ADMINISTRATIVE OFFICER'S RECOMMENDATION: This item on agenda as: Recommended Not Recommended For Policy Determination Submitted with Comment
The foregoing instrument is a correct copy of the original on file in this office.	Returned for Further Action
Date: ATTEST: MARGIE WILLIAMS, Clerk of the Board County of Mariposa, State of California	Comment:
By: Deputy	A.O. Initials:

PRELIMINARY CLOSURE AND POSTCLOSURE MAINTENANCE PLAN MARIPOSA COUNTY LANDFILL

1) REGULATION REQUIRED DOCUMENT

- RWQCB WDR ORDER NO. 93-200 §E.4 REQUIRED BY 10/9/93
- MARIPOSA COUNTY LEA/CIWMB TITLE 14 REQUIRED AT NEXT SOLID WASTE FACILITIES PERMIT UPDATE -- 1996
- * THIS PRELIMINARY CLOSURE AND POSTCLOSURE MAINTENANCE PLAN MEETS BOTH REGULATORY REQUIREMENTS.

2) UPDATED FINAL COVER DESIGN

- PREVIOUS DESIGNS WERE SIMILAR TO FIGURE 4 (ATTACHED) EXCEPT 1-FOOT OF CLAY SOIL WAS DESIGNED INSTEAD OF GEOSYNTHETIC CLAY LINER
- UPDATED FINAL COVER DESIGNS ACCOUNTS FOR LIMIT CLAY SOIL & REGULATORY REQUIRED COMPOSITE FINAL COVER OVER COMPOSITE LINED MODULES (SEE FIGURES 4 & 5 ATTACHED)

3) CLOSURE AND POSTCLOSURE MAINTENANCE COST ESTIMATES

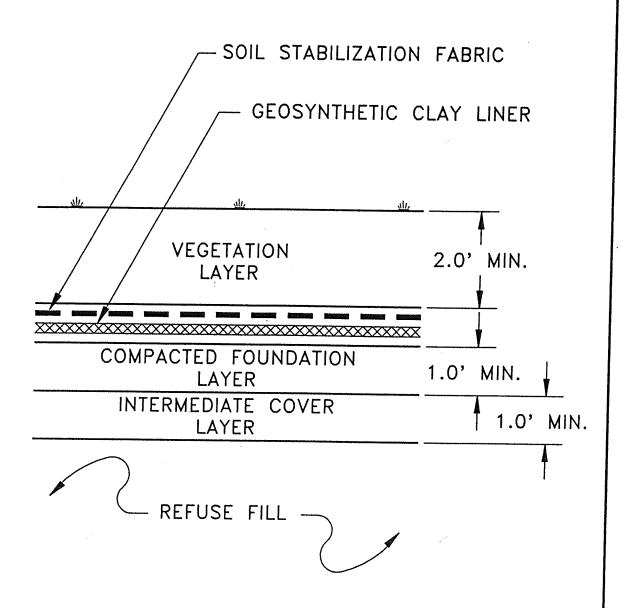
- UPDATE ORIGINAL COST ESTIMATES THAT WERE PREPARED IN 1989
- UPDATED COST ESTIMATES INCLUDING NEW FINAL COVER DESIGN
- INCREASED POSTCLOSURE FINANCIAL ASSURANCE PERIOD FROM 15 TO 30 YEARS

4) FINANCIAL ASSURANCE

- PREVIOUSLY A TRUST FUND FOR BOTH CLOSURE AND POSTCLOSURE MAINTENANCE COSTS
- MODIFY TRUST FUND FOR ONLY CLOSURE COSTS
- ESTABLISHED A PLEDGE OF REVENUE FOR FUTURE POSTCLOSURE MAINTENANCE COSTS (SAVED APPROXIMATELY \$3,000 PER YEAR)
- ANNUAL DEPOSITS TO TRUST FUND OF \$19,000 TO \$24,000 OVER NEXT 20 YEARS (SEE ATTACHED TABLE)

5) UPDATE SITE LIFE AND CAPACITY ESTIMATES

- SITE LIFE ORIGINALLY WAS 38 YEARS IN 1988 MASTER PLAN BASED ON A 5% WASTE GENERATION GROWTH RATE
- CURRENT SITE LIFE ESTIMATE OF 86 YR. USED AB939/SRRE REPORT
- * BACKGROUND OF SITE LIFE AND WASTE GENERATION GROWTH RATE (SEE ATTACHED TABLE)



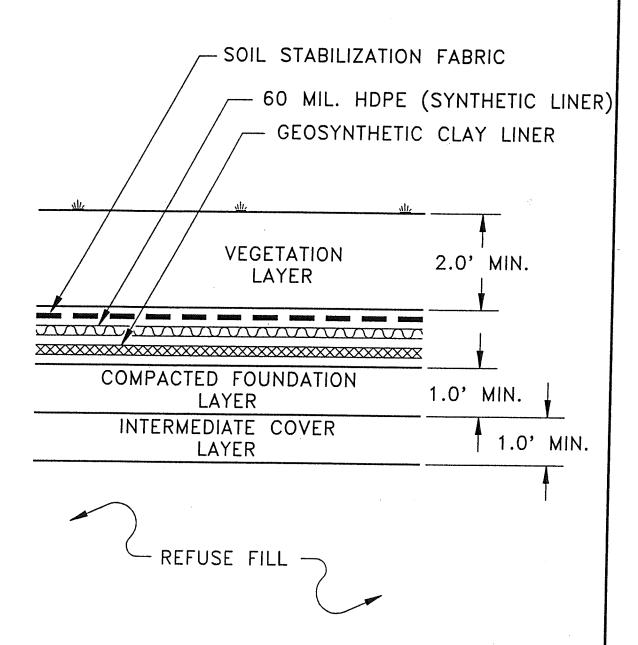
JAMES A. WYSE, INC.

MARIPOSA COUNTY SANITARY LANDFILL MARIPOSA COUNTY, CALIFORNIA

FINAL COVER PROFILE MODULE 1 & 2

FIGURE

PROJECT NO. 108-1.24



JAMES A. WYSE, INC.

MARIPOSA COUNTY SANITARY LANDFILL MARIPOSA COUNTY, CALIFORNIA

FINAL COVER PROFILE MODULE 3, 4 & 5

FIGURE

5
PROJECT NO.

108-1.24

SUMMARY OF INITIAL JST ESTIMATES

Facility Name MARIPOSA COUNTY LANDFILL	SWIS # 22-AA-0001
Closure	
Final Cover (Line 23)	\$ 2,131,193
Revegetation (line 29)	\$ 13,325
Landfill Gas Monitoring and Control (line 32)	S 0
Groundwater Monitoring Installations (line 34)	\$ 0
Drainage Installation (line 35c)	\$ 0
Security Installation (line 36d	\$ 0
Other (Line 37)	\$ 0
I. SUBTOTAL (Closure)	\$ 2,144,518
Monitoring and Postclosure Maintenance	.
Revegetation (Line 40)	\$ 0
Leachate Management (line 46)	\$ 5,650
Monitoring (line 50)	\$ 3,540
Drainage (line 51)	\$ 2,000
Security (Line 52)	\$ 250
Inspection (Line 53b)	\$ 1,000
Other (Line 54)	\$ 0
IL. SUBTOTAL (Postclosure)	S 12,440
III. SUBTOTAL II x 30 YEARS POSTCLOSURE CARE	\$ 373,200
IV. CONTINGENCY COSTS(Sum I X 20%)	\$ 503,544
V. TOTAL CLOSURE COST (I + IV)	\$ 2,648,062
TOTAL COST (Item III + Item V)	\$ 3,021,262

MARIPOSA COUNTY LANDFILL

CLOSURE CONSTRUCTION SCHEDULE AND CLOSURE FUND DISBURSEMENT SCHEDULE MARIPOSA COUNTY

CLOSURE FUND ACCRUAL MULTIPLIER 2.0

2000

8 200 8 2002

1,322,934 956,370 868,213 1,271,960 .249,500 1,191,356 1,039,419 1,025,920 CAPACITY, Cr ,359,612 293,408 1,260,786 1,117,655 970,559 1.77.11.4 303,749 1,282,820 1,204,102 1,226,589 1,130,246 1.012,285 927,567 912,949 REMAINING 1,214,961 1,203,217 1.179,376 1,167,270 155,055 1,142,712 1,104,938 1,092,093 ,052,785 998,514 942,041 1,079,12 1,066,01 13,499 10,563 10,188 11,399 11,628 12,343 13,102 13,634 13,908 14,473 14,764 13,061 10,860 11,513 11.980 12,100 12,717 12,973 14,048 14,188 14,330 14,618 14,912 11,286 198.11 12,466 12,391 13,233 13,366 13,771 TONSYR 9,997 12,221 ט COST ESTIMATE TO BE FUNDED, Er \$2,031,163 \$1,905,363 \$1,634,184 62,491,961 \$2,453,968 \$1,956,436 \$2,559,115 \$2,434,504 \$2,414,574 \$2,394,133 52,377,101 £2,330,40¢ \$2,286,848 \$2,242,417 \$2,197,093 \$2,150,858 \$2,103,694 \$2,055,581 \$2,006,502 \$1,879,443 \$1,853,264 \$1,800,118 \$1,773,146 \$1,745,904 \$1,690,600 \$2,535,591 \$2,511,843 \$2,473,144 \$2,351,859 \$2,308,734 \$2,264,743 \$2,219,868 \$2,174,091 \$2,127,393 \$2,079,757 \$1,981,593 \$1,931,026 \$1,826,824 \$1,718,390 \$1,662,532 CLOSURE FUND \$112,471 \$136,219 \$88,947 \$213,558 \$233,488 \$156,101 \$ 18 S \$253,929 196,962 \$296,203 337,658 \$339,328 5361,214 \$383,319 \$205.645 728,192 \$450,969 187.28 \$520,669 2544,368 \$568,305 1892,481 \$616,899 \$641,560 \$666,469 \$691,626 \$717,036 \$742,699 \$768,619 \$75. XYS \$821,238 3847,944 \$874,916 \$902,158 \$929,672 \$957.462 \$985,530 \$1,013,878 \$1,042,509 179.577 BALANCE DISBURSEMENT \$937,086 \$116,444 \$165,233 \$187,375 \$210,299 \$233,969 \$258,578 \$284,190 \$310,906 \$366,589 \$395,590 \$425,388 \$487,447 \$519,745 \$552,915 \$621,948 \$657,852 \$694,709 \$732,539 \$771,366 \$852,097 \$894,047 \$1,026,525 \$1,120,614 \$1,219,561 \$1,323,585 \$1,432,912 \$1.547,779 \$338,367 \$586,976 \$981,237 \$1,072,975 \$1,169,467 \$1,270,925 \$1,489,638 \$1,607,366 \$142,521 \$811,211 \$1,377,571 \$456,001 CLOSURE FUND ACCRUED \$19,176 \$24,662 \$22,663 \$23,524 \$19,929 \$21,032 \$21,455 \$23,233 \$23,700 \$25,409 \$28,348 \$19,464 \$22,105 \$25,920 \$26,705 \$26,972 \$28,632 \$23,748 \$19,882 \$18,817 \$21,669 \$21.886 \$22,326 \$22,775 \$24,176 \$25,158 \$26,179 \$27,242 \$28,067 \$20,441 \$22,549 \$23,003 \$23,465 123,937 \$24,418 \$24,908 \$26,441 \$27,514 \$27,790 CLOSURE FUND DEPOSITS FILL PLACEMENT PIL MACEMENT FILL PLACEMENT FILL MACEMENT ACTIVITY FIL MAGEMENT FILLPLACEMENT FILL PLACEMENT FILL PLACEMENT PIL MACEMENT FILL PLACEMENT PLACEMENT FILL PLACEMENT FILL PLACEMENT FILL PLACEMENT FILL PLACEMENT PILL PLACEMENT PILL PLACEMENT FILL PLACEMENT FILL PLACEMENT FILL PLACEMENT FILL PLACEMENT FILL PLACEMENT FILL MACEMENT FILL PLACEMENT FILL PLACEMENT

790,619

742,176

16,309

\$1,396,952

\$2,067,726 \$2,214,201

\$30,697

\$30,393

\$2,140,085 \$2,290,112

\$16,163

\$31,004

\$31,627

FILL PLACEMENT

FILL PLACEMENT

ž

FILL PLACEMENT

204

2045

2046 FILL PLACEMENT
2047 FILL PLACEMENT

\$1,997,088

\$1,860,823

16,637

\$1,334,634 \$1,303,007

822,120

\$53,001 **837,638**

> 15,364 15,672

\$1,576,635 \$1,517,928 \$1,458,042

\$1,071,427

\$1,668,432 \$1,795,127 \$1,928,132

\$28,918

FILL PLACEMENT

Ę

2030 Ē 2032 2033 2035

203 2036 2038 ê 2040

2027 2028 500

200 2025

2021 2022 2024 9202 FILL MACEMENT FILL PLACEMENT

FILL PLACEMENT

FILL PLACEMENT FILL PLACEMENT

훒

\$29,207 \$29.794

\$1,731,007

\$29,499 \$30,092

\$1,100,634 \$1,130,134 \$1,159,928 \$1,190,020 \$1,220,413 \$1,251,110 \$1,282,114 \$1,313,428 \$1,345,055

\$1,605,553 \$1,547,428 \$1,488,134

15,517 15,829 15,987

MARIPOSA COUNTY SITE LIFE BACKGROUND

REFERENCE DOCUMENT	SITE LIFE (YEARS)	WASTE GENERATION GROWTH RATE	IN-PLACE WASTE DENSITY(#/CY)
JULY 1988 MASTER PLAN	38	2%	1000
APRIL 1989 REPORT OF DISPOSAL SITE INFORMATION	40.5	2%	1200

JUNE 1990 REPORT OF WASTE DISCHARGE	08	1990-2000 @ -1%	1200
		2000-CLOSURE @ +2%	
DECEMBER 1993 SOURCE REDUCTION	41	ALT.1 @ +3%	1200
RECYCLING ELEMENT	68	ALT.2(1991-2000) @33%	
		2001-CLOSURE @11,400TPY	
MARCH 1995 PRELIMINARY CLOSURE AND	98	1995-2005 USED SRRE TABLE 2-7	1200
POSTCLOSURE MAINTENANCE PLAN		2006-CLOSURE @ +1%	