

OFFICE MEMORANDUM

TO : Dean Meyer, H-1 Group Leader
FROM : John Enders, H-1 Section Leader CM Bldg.
SUBJECT: QUARTERLY REPORT FOR DISPOSAL OF RADIOACTIVE SOLID TRASH. First quarter of 1958
SYMBOL :

DATE: May 6, 1958

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Forward:

The following report covers the disposal operations for January, February and March of 1958. Information on data in this report was furnished by Dale Coburn, Eng.-4, Eddie O'Mara, SP-3, George Ponton, H-7. Other data was taken from the Dump run log book (LA #8453).

Figures for volumes and costs of items have been rounded off, since it is felt that using too detailed figures does not materially increase the accuracy of the report.

Volume of Trash Taken to the Dump:

1. Cardboard boxes (13" x 13" x 21")

6,860 boxes were taken to the Dump during this quarter. Using a volume of 0.087 cubic yards per box, the total volume for boxes is 597 cubic yards.

2. 55 Gallon Drums:

These drums contain radioactive residue from the Waste Treatment Plants at Bldg. 35 D.P. West and TA-45. The volume of one drum is 0.368 cubic yards. 159 drums taken to the Dump this quarter would have a volume of 58 cubic yards.

3. Plastic Bags: (with out bag)

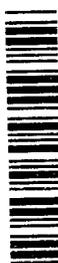
5 mil thick bags (13" x 24") are now used in wings #2 and #4, CM Bldg. as well as at 10 Site. An estimated volume of 0.037 cubic yards per bag is used. 555 bags were used so this gives a volume of 20 cubic yards.

4. Other Trash:

An estimated 35 cubic yards of contaminated materials such as

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property items, classified material, etc, was placed in the Dump this quarter.

The total volume of all trash taken to the Dump this quarter equals 710 cubic yards.

Disposal Costs:

1. Masking Tape:

2 inch masking tape is used for sealing cardboard boxes and plastic bags. An estimated 500 rolls of tape were used. According to SP-3 the cost is 64¢ per roll. 500 rolls would cost \$320.00.

2. Plastic Bags (2 mil thickness):

D.P. Laundry has issued 1,700 bags this quarter. SP-3 has informed me that 4,502 bags were issued this quarter. It is probably safe to assume that about 4,000 bags were used to contain contaminated trash. At a cost of \$0.051 each, this would total \$204.00.

3. Plastic Bags (5mil thickness):

These bags are used at 10 Site and Wings #2 and #4 of the CM Bldg. for holding contaminated trash. 555 bags were sent to the Dump. Using 14¢ per bags as the unit cost, 555 bags cost \$78.00.

4. Cardboard Boxes:

At 19¢ per box, 6,860 boxes would cost \$1,303.00.

5. 55 Gallon Drums:

159 drums were sent to the Dump. The unit cost per drum used is \$2.60. 159 drums would then cost \$413.00.

6. Zia Rental Charge on Bulldozer:

This tractor is used for covering trash only. The Zia rental charge by month is as follows: January - \$321.00 February *

\$216.00; March- \$216.00. The total for this quarter equals \$753.00

7. Pick Up and Disposal of Contaminated Trash:

The Zia Company charges for this service include the maintenance cost on the truck used as well as the truck driver's and his helper's salaries, plus overhead. The charges by month are as follows: January - \$1,273.67; February - \$1,154.06; March - \$1,161.25. This quarter total equals \$3,589.00.

8. Dempster Dumpster Charges:

Dempster Dumpster boxes are now in use for holding boxed trash at Omega, 10 Site and Wings #2 and #4 of the CM Bldg. The cost of emptying these boxes by each month is as follows: January - \$71.45; February - \$44.09; March - \$52.11. This quarter total equals \$167.00.

9. Covering Trash at Dump:

Pit #6, Area C, was covered once this month. The job order also requested a cover of dirt for dryboxes at Pit #1, Area G. As there was no breakdown of charges by pit number, $\frac{1}{2}$ of the amount is charged to Pit #6 ($\frac{1}{2}$ of \$992.95). This equals \$497.00.

10. Escort Vehicle Charges:

A $\frac{1}{2}$ ton pickup (#0325) is used to escort the trash truck to the Dump. As it is used for this work about $\frac{7}{8}$ of the time; $\frac{7}{8}$ of this quarters charge is reported. The total monthly charges are as follows: January - \$42.80; February - \$43.20; March - \$43.20. Total equals \$129.00. $\frac{7}{8}$ of this equals \$113.00.

11. Monitor Charge:

A monitor supervises the disposal operation. This takes about $\frac{7}{8}$ of his time. An average salary of \$2.50 per hour and an arbitrary overhead figure of $\frac{3}{4}$ of \$2.50 (\$1.88) is used for

computing this cost. $7/8$ of 520 (number of man hours per quarter) equals 455 man hours. The total charge then equals $(455 \times \$4.38)$ \$1,993.00.

12. Fencing Around Pit #6:

The original cost (\$3866.92) is being written off at the rate of $1/10$ per year. This quarter's charge equals \$97.00 (\$96.67 rounded off). The balance remaining equals \$2,996.88.

13. Protective Clothing:

An arbitrary figure of \$50.00 is used here. The personnel covering the trash and the disposal crew are required to wear protective clothing.

14. Janitor Charge:

This charge is for packaging contaminated trash. The figure used was determined after a survey of the situation by Pascual Chavez, H-1, and Don Rice, Zia. For this quarter the charge would amount to \$7,535.00.

Tabulation of Volume of Trash:

1. Cardboard boxes (6,860)-----	597 cubic yards
2. Drums (55 gal. capacity) -----	588 " "
3. Plastic bags (5 mil thickness)-----	20 " "
4. Other trash -----	35 " "
Total	710 " "

Tabulation of Costs:

1. Plastic bags (2 mil thick) 4,000 @ \$0.051ea)----	\$ 204.00
2. " " (5 " ") 555 @ \$0.14 ea)-----	78.00
3. Masking tape (500 rolls @ 64¢ ea)-----	320.00
4. Cardboard boxes (6,860 @ 19¢ ea)-----	1303.00
5. 55 gal. Drums (159 @ \$2.60 ea)-----	413.00

6. Rental charge on Bulldozer-----	\$ 753.00
7. Pick up and disposal of trash-----	3589.00
8. Emptying Dempster Dumpster boxes-----	167.00
9. Covering trash ($\frac{1}{2}$ of \$992.95)-----	497.00
10. Escort Vehicle-----	113.00
11. H-1 supervision (Monitor charge)-----	1993.00
12. Fencing for Pit #6-----	97.00
13. Protective clothing-----	50.00
14. Packaging trash-----	7535.00

Total Cost 17,112.00

The cost per cubic yard of trash for this quarter equals \$24.00.

John Enders

cc: C. Reynolds, Eng. 4
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