178093

Segments on Saw-all

$300.00

$18 x 200 Saw all Discs

$3600/yr

Pumps Rebuild about

once a year —

6 hrs for each man Pumps

$1200.00 each time —

#4 - 1200 + 40
+ labor

#3 - 1200 + 40
+ labor

#2 - 1200 + 40
+ labor

Add to 308

1200 x 3 = 3600 -

18 x 6.72 =

6.72 man hrs —

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#308 forms #308 Form - Sect. II

Machine Tender - $6.62 + .50 = 7.12/HR - (1977)

Mach. Tender (No. 4) - 6.62 (1976)
No. 3 - 6.31 } 6.3833/HR -
No. 2 - 6.22

Maint $6.72/hr -

.15¢ ave Shift differential -

Save-all Oper. & all Pumps ect. having to do with recycling of White Water & Cooling water in the Plainwell Paper Co.

ESTIMATE

(1976) 3 HRS/DAY FOR 24 HR/MACHINE -
OPERATING COSTS - (346 DAYS)

#4 - 3 X 6.62 + .15 = 6.77 X 3 X 346 = 7027.2
#3 - 3 X 6.31 + .15 = 6.46 X 3 X 346 = 6705.4
#2 - 3 X 6.22 + .15 = 6.37 X 3 X 346 = 6612.06

EVEN THOUGH #2 WASN'T RUNNING IN 1976) = $ 20,344.86
FOR ALL LABOR EVEN THOUGH + MAINT. $3600.00 pro
MACH. TENDER DOESN'T DO ALL WORK
20,344 + 3600 + 3600 + (121.00 Lab) + (LAB PUMPS)
Save-all Repair Labor +

Pump -
+ Save-all -
$3600 - 18 HRS -
6 hrs each time $121.00

Elect. .0252/KWHR

1976

346 operating days - 24 X 346 = K = 8304
= 209.261 = K.

(1) Hot water tank - 20 Hp (Motor) 156.05
20 X 24 X 346 X .0252 = $ ~~[illegible]~~ 216 = 3121

(2) Two Collector tanks in Beater Room
Basement (2) Motor
(1) 15 Hp - X 24 X 346 X .0252 = $ ~~[illegible]~~ 2341
(1) 20 Hp - X 209.261 = ~~[illegible]~~ 3121

(3) Spec. White Water Tank
1 agitator =
1 Motor for pump = ...

See No 8

(4) #4 Save-all -
1 Cloudy water pump - 10 Hp X 209.261 = ~~[illegible]~~ 3
1 - Clear " " - 15 Hp - X 209.261 =
Drive Motor - 2 X 5 = ~~[illegible]~~ 11704
9681.5

30 X 115 Hp 1561

(5) #3 Save-all -
1 Clear water pump - 50 Hp X 209.261 = ~~[illegible]~~ 7803
1 Cloudy " " - 15 Hp - X 209.261 = 2341
Save-all drive motors - 2 X 5 Hp X 209.261 = ~~[illegible]~~ $ 1560.

K = 156.05

K = 156.05

1976 - 346 operating day

(3) - #2 Save All -

Drive Motor - 5 Hp - 24 X 346 X .7457

7.5 Hp - Cloudy pump $1171.38

30 Hp - Clear Water Pump $4682 = 6561.96

= 6562

12.5
30
42.5

(7) Common White Water Tank

2 - 30 Hp pumps - = 4682 X 2 = 9364

1 - 20 Hp - Agitator - = 3121

9364
3121
12485

(8) #4 Special White Water Tank

20 Hp Agitator Motor - = 3121 } X HRS -

20 Hp - Pump motor - 3121

Only 24 hours / wk - = .143 24/168

(9) Seal Water Tanks #3 & #4 Beater Room Basement

2 X 20 Hp pumps - 3121 X 2

IN PLANT COST - CHANGES -

$40,000 Sewer Changes - 1976 -
$35,000 X 2.051 = 71785 1966
40,000
$111785

Capital Costs

Save-Alls - $523,746 1963-1965

Cost of Operation - $135,000/yr
1976-1977
ave -

Primary Moyno - 15 Hp - X 350 days -
= 93,958 ~~[illegible]~~
G. Rupp - 10 Hp - $2368 (*)

142.00 X 346 = $49,132 Maint -

(*) HW
Aerators = 1682.3 HRS/DAY
X 350 Days - = 588805 X .0252
$14,838 /yr -

2/21/78 [illegible]

[illegible] Phase II #308 Form

Waste Treatment repairs

[illegible] Tenance	12 hr per week	$ ~~[illegible]~~ /wk —
Sheet Dept.	6 hr per week	
[illegible]	4 hr per week	$147.84 ?

Repair parts for secondary charifer bought in 1976 cost $348.00.

Tony

~~[illegible]~~ wages

$6.72 Per hr.

~~28~~ Hrs /wk — /48 WKS

By Tony Weber +

Very seldom Maintenance is done when machines are down —

$147.84 X 48

$7096.32/yr as per Tony Weber

Parts —

Indary Clarifier gears — $1,780 Big [illegible]

567.00 — Small gear Indary Pinion gear

	567.00	329 — Rotor	Moyno Pump
2695	1780.00	524 Stator	
1706	348.00		
$4401	$2695	$853 x 2/yr = 1706	

S 19815

Electrical Power Cost —

Bar Screen
Nutrient System $234
Wet Well Pumps $~~468~~ 6314
Primary Clarifier — $2536
Aeration Basin — $14[illegible]69
Secondary Clarifier — $1,716
$26,469

+ Heating Cost & Lighting Costs —
Primary Cl. Room — heat & light
Indary Clarifier Room — heat & light + Sample —
2 - 1/4 Hp sump pumps —

Bar Screen not included because it was not operating enough time in 1976 to be included —