CLARKE & STUART CO. LTD.
VANCOUVER B.C.
MADE IN
CANADA

THE CANADIAN LINE

THIS BOOK IS

SERIES NO. 1230

SIZE 12¼ x 10 INCHES

MADE IN THE FOLLOWING RULINGS

2 COLUMNS TO RIGHT
3 " "
4 " "
5 " "
6 " "
7 " "
8 " "
10 " "
12 " "
14 " "
16 " "
18 " "
FEINT
QUADRILLE

IN 150 AND 300 PAGE THICKNESSES

TO OBTAIN A DUPLICATE OF THIS BOOK

ORDER NO. 1230

SPECIFYING RULING AND THICKNESS

Budget

Dredge Nº 3 - 1948 Budget Estimate

Au.-

Dredge to dig 1,696,000 Cu. Yds.

Add 15 Cu. Yds. per lineal foot along cut.

May - 217,000 Cu. Yds.

△ Nº.	Part or All	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds.	Value $
14		140,415	50,409	128,480	
13		24,667	10,039	22,841	
		165,082	60,448	151,321	

June - 240,000 Cu. Yds.

△ Nº	Part or All	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds	Value $
13		9,488	3,862	8,786	
14.		89,182	32,016	81,601	
14 out		57,557	20,662	52,664	
4 out		22,770	3,620	24,454	
		178,997	60,160	167,505	

May - Dredge to dig 217,000 Cu. Yds

Estimated total Cu. Yds. Muck = 60,448
D.S. = 151,321
211,769
+ 15 Cu. Yds. per lin. Ft = 7,500
Estimated Total Cu. Yds. = 219,269

Recovery @ 20 67 =
Premium = _____

Av. Depth Muck = 60448 x 27 / 165,082 = Ft.
D.S. = 151,321 x 27 / 165,082 =
Total Depth = 211,769 x 27 / 165,082 =

¢ per total Cu. Yd. = _____ / 219,269 =
¢ per Sq. Ft. = _____ / 165,082 =

June - Dredge to dig 240,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 60,160
D.S. = 167,505
227,665
+ 15 Cu. Yds. per. lin. Ft = 13,500
Estimated Total Cu. Yds. = 241,165

Recovery @ 20 67 =
Premium = _____

Av. Depth Muck = 60,160 x 27 / 178,997 = Ft.
D.S. = 167,505 x 27 / 178,997 =
Total Depth = 227,665 x 27 / 178,997 =

¢ per total Cu. Yd. = _____ / 241,165 =
¢ per Sq. Ft. = _____ / 178,997 =

Dredge No 3 - 1948 Budget Estimate

July - 310,000 Cu. Yds.

Δ No	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
4+out		241,615	38416	259,494	
		241615	38,416	259,494	

August - 310,000 Cu. Yds.

Δ No	Part or All	Area Sq. Ft	Muck Cu. Yds	D.S. Cu. Yds	Value $
4+out		135,987	21,622	146,050	
1+out		34787	5,148	37,361	
6		5,060	880	5566	
5		64,515	10257	68,579	
		240,349	37,907	257,556	

July - Dredge to dig 310,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 38,416
" " " " D.S. = 259,494
297,910
+15 cu. yds. per lin. ft. = 15,000
Total Cu. Yds. = 312,910

Recovery @ 20¢ =
Premium = _____

Av. Depth Muck = $\frac{38,416 \times 27}{241,615}$ =
Av. Depth D.S. = $\frac{259,494 \times 27}{241,615}$ =
Total Depth = $\frac{297,910 \times 27}{241,615}$ =

¢ per total Cu. Yd. = $\frac{\quad}{312,910}$ =
¢ per Sq. Ft. = $\frac{\quad}{241,615}$ =

August - Dredge to dig 310,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 37,907
" " " " D.S. = 257,556
295,463
+15 Cu. Yds per lin. ft. = 9,000
Total Cu. Yds. = 304,463

Recovery @ 20¢ =
Premium = _____

Av. Depth Muck = $\frac{37,907 \times 27}{240,349}$
Av Depth D.S. = $\frac{257,556 \times 27}{240,349}$
Total Depth = $\frac{295,463 \times 27}{240,349}$

¢ per total Cu. Yd. = $\frac{\quad}{304,463}$
¢ per Sq. Ft. = $\frac{\quad}{240,349}$

Dredge Nº 3 - 1948 Budget Estimate

September - 300,000 Cu. Yds.

△ Nº.	Part or All	Area Sq. Ft	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
1+out		87917	13011	94422	
2		4427	655	4870	
3		5060	749	5566	
10		10752	1193	11666	
5		3036	483	3227	
6		34787	6052	38265	
7		28,462	4952	31934	
9		9487	1300	10540	
8		28462	4952	31934	
17+out		3975	588	4312	
18		12650	2011	12979	
19		632	170	585	
20		6325	1334	6539	
		235,972	37450	256859	

October - 279,000 Cu. Yds.

△ Nº	Part or All	Area Sq. Ft	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
17+out		56925	8424	61763	
18		107525	17096	110320	
19		39847	10759	36898	
20		24035	5071	24924	

September - Dredge to dig 300,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 37450
D. S. = 256859
294,309
+15 Cu. Yds. per lin. ft. = 7,500
Total Cu. Yds. = 301,809

Recovery @ 20.67 =
Premium = _____

Av. Depth of Muck = 37450x27 / 235,972
" " D.S = 256,859x27 / 235,972
" Total Depth = 294,309x27 / 235,972

¢ per Total Cu. Yds. = _____ / 301,809 =
¢ per Sq. Ft. = _____ / 235,972 =

October - Dredge to dig 279,000 Cu. Yds.

Estimated Total Cu. Yds. Muck =
" " " " D.S. = _____

+15 Cu. Yds. per lin. foot. = _____
Total Cubic Yds. =

Recovery @ 20.67 =
Premium = _____

Av. Depth of Muck = _____ =
" " " D.S. = _____ =
" Total Depth = _____ =

¢ per Total Cu. Yd. = _____
¢ per Total Sq. Ft. = _____

Dredge No. 3 - 1948 Budget Estimate

Δ No.	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value ¢
17 out		10752	1591	11665	
18		8855	1408	9085	
19		9487	2561	8785	

November - Dredge to dig 40,000 Cu. Yds.

Estimated Total Cu. Yds. Muck =
" " " " D.S. = _____

+15 Cu. Yds. per lineal ft. =
Total Cu. Yds =

Recovery @ 20% =
Premium =

Av. Depth of Muck = _____
" " D.S. = _____
Total Depth = _____

$ per Total Cu. Yds = _____
$ per Sq. Ft. = _____

Dredge No. 4 - 1948 Budget Estimate

Starts May 1st - shuts down Nov 6th - Add 15 Cu. Yds. per lineal foot in tailings

Month	Days Run	Area Sq. Ft.	Depth Feet	Cu. Yds.	Gross	¢/cu. Yd.	Cents per Sq. Ft.
May	31	191,655	39	284,935	38,757	13.6	20.2
June	30	254,907	39	372,699	51,548	13.8	20.2
July	31	253008	39	377,456	51,164	13.5	20.2
August	31	282,735	33	360,565	48,379	13.4	17.1
September	30	257,436	33	344,644	44,050	12.8	17.1
October	31	252,378	33	335,462	43,185	12.9	17.1
November	5	43,011	33	58869	7,360	12.5	17.1
Total	189	1,535,130	37.5	2,134,630	284,443	13.3	18.5

Yardage includes 102,600 Cu. Yds. of Redug. Tailings at no estimated value and 2,031,730 Cu. Yds. of Virgin @ 14¢ per Cu. yd.

Estimated Thawing Write off = 308034 Cu. Yds.
No Royalty
No Stripping Write off

Dredge No 6 - 1948 Budget Estimate - Av. 35 Cy

May - 110000 Cu. Yds. - Add 5 Cu. Yds per lin. Ft. along cut.

△ No	Part of Fill	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds	Value $
174	P	2530	329	2062	268
175	P	13122	1706	10353	1562
176	P	4427	576	3559	646
177	P	9486	1157	7627	2068
187	P	14229	2262	11070	2746
188	P	2771	4769	18426	2835
189	P	20869	3631	15234	1565
190	P	17075	2971	12840	1059
191	P	6956	1287	5231	313
192	P	632	152	422	19
		116197	18840	86824	13081
					9026 Premium
					22107

No Extra depth added.

+5 cy. per lin. Ft. along old cut = 2100

June - 120000 Cu. Yds

△ No	Part of Fill	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
188	P	1897	3509	13565	2087
189	P	469	743	3116	320
190	P	743	825	3567	294
191	P	6956	1287	5231	313
192	P	31620	7620	21090	949
193	P	2200	912	1814	282
194	P	50423	11748	29295	3025
195	P	13164	2580	8293	1237
196	P	6230	1152	4386	716
		138,577	30376	90357	9223
					6364 Premium
					15587

No Extra depth Added.

+5 cy. per lin. Ft. along old cut = 2,650

May - Dredge to dig 110000 Cu. Yds

Estimated Total Cu. Yds. Muck = 18840
" " " D.S. = 86824
= 105664
+ 2 Cu. Yds. per lin. Ft. = 2100
Estimated Total Cu. Yds. = 107764

Recovery @ 20.67 = 13081
Premium @ 35.00 = 9026
= $22107.00

Avg. Depth Muck = $\frac{18840 \times 27}{116197} = 4.4$ Ft.

" " D.S. = $\frac{86824 \times 27}{116197} = 20.2$ Ft.

" Total Depth = $\frac{105664 \times 27}{116197} = 24.6$ Ft.

¢ per Total Cu. Yd. = $\frac{2210700}{107764} = 20.5$

¢ per Sq. Ft. = $\frac{2210700}{116197} = 19.0$

Estimated Total Cu. Yds. Muck = 30376
" " " " D.S. = 90357
120733
+ 5 Cu. Yds per lin. ft. = 2,650
Estimated Total Cu. Yds. = 123,383

Recovery @ 20.67 = 9223
Premium @ 35.00 = 6364
= 15,587

Avg. Depth Muck = $\frac{30376 \times 27}{138,577} = 5.9$ Ft.

" " D.S. = $\frac{90357 \times 27}{138,577} = 17.6$ Ft.

" Total Depth = $\frac{120,733 \times 27}{138,577} = 23.5$ Ft.

¢ per Cu. Yd. = $\frac{1558700}{123,383} = 12.6$

¢ per Sq. Ft = $\frac{1558700}{138,577} = 11.2$

Dredge No 6 – 1948 Budget Estimate Av. 35°

July – 130,000 Cu. Yds. Add 5 cy. per lin. ft. along cut.

△ No	Part or All	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds	Value $
193	P	49645	14148	28148	4368
194	P	19250	4485	11184	1155
195	P	16450	3224	10363	1546
203	P	25830	8317	14645	3306
202	P	7600	1770	4788	1368
201	P	32410	5153	21973	5639
		151185	37097	91101	17382
					11994
					29376

No Extra Depth added.

Premium

+5cy. per lin. ft. along cut.

August – 150,000 Cu. Yds

△ No	Part or All	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds.	Value $
201	P	17625	2802	11950	3066
200	P	63800	6380	51295	11675
199	P	18375	882	15655	2021
209	P	43200	2721	37930	7516
210	P	21125	1014	18548	1796
		164,125	13799	135378	26074
					17991
					44065

No extra Depth added.

Premium.

+5 c.y. per lin. ft. along cut.

July - Dredge to dig 130,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 37097
" " " D.S. = 91101
128,198
+ 5 Cu. Yds. per lineal foot = 1400
Estimated Total Cu. Yds. = 129,598

Recovery @ 20^{57} = 17382
Premium @ 35^{00} = 11994
= $29376.00

Avg. Depth Muck = $\frac{37097 \times 27}{151,185} = 6.6$ Ft.

" " D.S. = $\frac{91101 \times 27}{151,185} = 16.3$

Total Depth = $\frac{128,198 \times 27}{151,185} = 22.9$

$ per Total Cu. Yd. = $\frac{29376}{129,598} = 22.7$

$ per Sq. Ft. = $\frac{29376}{151,185} = 19.4$

August - Dredge to dig 150,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 13799
" " " D.S. = 135378
149,177
+ 5 Cu. Yds. per lineal foot = 850
Estimated Total Cu. Yds. = 150,027

Recovery @ 20^{57} = 26074
Premium @ 35^{00} = 17991
= $44065.00

Avg. Depth Muck = $\frac{13779 \times 27}{164,125} = 2.3$

" " D.S. = $\frac{135,378 \times 27}{164,125} = 22.3$

Total Depth = $\frac{149,177 \times 27}{164,125} = 24.5$

$ per Total Cu. Yd. = $\frac{4406500}{149177} = 29.5$

$ per Sq. Ft. = $\frac{4406500}{164,125} = 26.8$.

Dredge No 6 - 1948 Budget Estimate Au. 35°°

September - 150,000 Cu. Yds. Add 5 Cu. yds per lin. ft. along cut

Δ No	Part or All	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds	Value $
209	P	4800	302	4214	835
210	P	37900	1819	33276	3221
211	P	47880	7612	34952	12257
212	P	68375	3282	55725	18188
213	P	12240	134	9204	4137
		171195	13149	137371	38638
					26660
					65298

No Extra depth added.

Premium

+5cy. per lin. ft. along cut

October - 150,000 Cu. Yds.

Δ No	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
213	P	62895	692	47297	21258
214	P	42900	2059	31788	5963
212	P	2200	105	1793	585
207	P	950	200	644	160
208	P	51540	5154	41438	7989
209	P	16152	1017	14181	2810
210	P	440	21	386	37
		177077	9248	137527	38802
					26773
					65575

No Extra depth added

Premium.

+5cy. per lin. ft. along cut.

September - Dredge to dig 150,000 Cu. Yds.

Estimated Total Cu. Yds. Muck	= 13149
" " " " D.S.	= 137371
	150,520
+5 Cu. Yds per lineal foot	= 0
Estimated Total Cu. Yds.	= 150,520

Recovery @ 20^{67} = 38638
Premium @ 35^{00} = 26660

= $6529.80

Av Depth of Muck. = $\frac{13149 \times 27}{171,195}$ = 2.1

" " " D.S. = $\frac{137,371 \times 27}{171,195}$ = 21.7

" Total Depth = $\frac{150,520 \times 27}{171,195}$ = 23.8

¢ per Total Cu. Yd = $\frac{6529800}{150,520}$ = 43.4

¢ per Sq. Ft. = $\frac{6529800}{171,195}$ = 38.1

October - Dredge to dig 150,000 Cu. Yds.

Estimated Total Cu. Yds. Muck	= 9,248
" " " " D.S.	= 137,527
	146,775
+5 Cu. Yds. per lineal foot.	= 3,550
Estimated Total Cu. Yds.	= 150,325

Recovery @ 20^{67} = 38802
Premium @ 35^{00} = 26773

= $6557.75

Av Depth of Muck = $\frac{9248 \times 27}{177077}$ = 1.4

" " " D.S. = $\frac{137,527 \times 27}{177077}$ = 21.0

" Total Depth = $\frac{146,775 \times 27}{177077}$ = 22.4

¢ per Total Cu. Yd. = $\frac{6557500}{150,325}$ = 43.6

¢ per Sq. Ft. = $\frac{6557500}{177077}$ = 37.0

Dredge № 6 - 1948 Budget Estimate Au. 35⁰⁰

November - 20,000 Cu. Yds. - Shut down on Nov 6.

Δ №	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
207	P	6350	1339	4305	1073	№ extra depth added.
208	P	6450	645	5185	1000	
209	P	9348	589	8207	1626	
		22148	2573	17697	3699	
					2552	Premium.
					6251	
						+5cy. per lin. ft. along cut

Dredge № 6 Recapitulation - Season 1948 - Au. - 35⁰⁰

Starts May 1st - Shuts down Nov 6th - To dig 830,000 Cu. yds.

Month	Days Run	Area Sq. Ft	Depth Ft.	Total Cu. Yds.	Recovery @ 20⁶⁷	Premium @ 35⁰⁰	Gross $	¢ per Cu. Yd	¢ per Sq. Ft.
May	31	116197	24.6	107,764	13081	9026	22107	20.5	19.0
June	30	138577	23.5	123,383	9223	6364	15587	12.6	11.2
July	31	151,185	22.9	129,598	17382	11994	29376	22.7	19.4
August	31	164,125	24.5	150,027	26074	17991	44065	29.5	26.8
Sept.	30	171,195	23.8	150,520	38638	26660	65298	43.4	38.1
Oct.	31	177077	22.4	150,325	38802	26773	65575	43.6	37.0
Nov.	5	22148	24.6	20870	3699	2552	6251	29.9	28.2
Total	189	940,504	23.9	832,467	~~145,099~~ 146899	101,365 101360	248259	~~28.9~~ 29.8	~~25.7~~ 26.4

No extra depth added.

Estimated stripping write off - 544200 Cu Yds.

Estimated Thawing Write off - 909700 - -

Estimated Royalty payable - $1064

November - Dredge to dig 20,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 2573
" " " " D.S. = 17697
20270
+ 5 Cu. Yds per lineal foot = 600
Estimated Total Cu. Yds = 20870

Recovery @ 20¢ = 3699
Premium @ 35¢ = 2552
= $6251

Av. Depth of Muck = $\frac{2573 \times 27}{22148} = 3.1$
Av. " " D.S. = $\frac{17697 \times 27}{22148} = 21.5$
Total Depth = $\frac{20270 \times 27}{22148} = 24.6$

¢ per Total Cu. Yd. = $\frac{625100}{20870} = 29.9$
¢ per Sq. Ft. = $\frac{625100}{22148} = 28.2$

Estimated Royalty Payable 99-100 Below Sulphur.

Lessor owns 55/72 - Y.C.G.Co owns 17/72.

Total No Cu.Yds = 157008
Total Dollars = 16483 @ 20¢
Prem = 11373 @ 35¢
Total Dollars with Prem = 27856

55/72 × 27856 = $21279

Value per Cu.Yd = $\frac{2785600}{157008} = 17.74$¢

If value per Cu.Yd is less than 25¢ Lessor gets 5% of Gross.

5% × $21279 = $1064 = Royalty Payable.

Dredge Nº7 - 1948 Budget Estimate Av. 35ºº

May - 70,000 Cu. Yds.

Δ Nº	Part or All	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds	Value $	
182	P	20700	2070	8197	1056	
183	P	2250	166	916	150	Add 5 Cu. ft. per lin. ft along old cut
183A	P	14335	1061	5834	960	
184B	P	19862	9554	6832	914	
184A	P	15800	5672	5088	600	No extra depth added.
184	P	36905	8192	13655	1845	
185	P	5220	773	2318	365	
		115072	27488	42840	5890	
					4064	Premium
					9954	

June - 80,000 Cu. Yds.

Δ Nº	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
184B	P	3100	1491	1066	143	
184A	P	41070	14744	13224	1560	Add 5 Cu. Ft. per lin. ft. along old cut.
184	P	11760	2610	4351	588	
185	P	23814	3524	10573	1667	
207B	P	20680	9430	7651	1789	No extra depth added.
207A	P	950	281	456	173	
207	P	1040	219	474	188	
206	P	2330	664	923	387	
205	P	13320	2593	5874	1838	
		118064	35556	44592	8333	
					5750	Premium
					14083	

May - Dredge to dig 70,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 27488
" " " " D.S. = 42840
70328
+5 Cu. Yds. per lin. foot = 2000
Estimated Total Cu. Yds. 72328

Recovery @ 20% = 5890
Premium @ 35% = 4064 = 9954

Av. Depth of Muck = $\frac{27488 \times 27}{115072} = 6.4$
" " " D.S. = $\frac{42840 \times 27}{115,072} = 10.1$
Total Depth = $\frac{70328 \times 27}{115,072} = 16.5$

¢ per Total Cu. Yd. = $\frac{995400}{72328} = 13.7$
¢ per Sq. Ft. = $\frac{995400}{115072} = 8.6$

June - Dredge to dig 80,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 35556
" " " " D.S. = 44592
80148
+5 Cu. Yds. per lin. ft. = 1700
Estimated Total Cu. Yds. = 81,848

Recovery @ 20% = 8333
Premium @ 35% = 5750 = 14083

Av. Depth of Muck = $\frac{35556 \times 27}{118064} = 8.1$
" " " D.S. = $\frac{44592 \times 27}{118064} = 10.2$
Total Depth = $\frac{80148 \times 27}{118064} = 18.3$

¢ per Total Cu. Yd. = $\frac{1408300}{81,848} = 17.2$
¢ per Sq. Ft. = $\frac{1408300}{118064} = 11.9$

Dredge N°7 - 1948 Budget Estimate — Au. 3500

July - 90,000 Cu. Yds.

Δ N°	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds	Value $	
204	P	215	30	102	37	
205	P	19250	3773	8546	2676	Add 5 Cu. Ft. per lin. ft. along old cut.
206	P	40595	11569	16076	6737	
207	P	14795	3121	6746	2679	
207A	P	22255	6587	10705	4073	No extra depth added
207B	P	25315	11543	9366	2202	
		122425	36623	51541	18404	
					12699	Premium
					31103	

August - 90,000 Cu. Yds.

Δ N°	Part or All	Area Sq. Ft	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
204	P	385	52	180	67	
205	P	245	48	109	34	
206	P	7105	2025	2813	1179	
207	P	2905	613	1325	525	Add 5 Cu. Ft. per lin. ft. along old cut.
207A	P	3745	1109	1801	685	
208B	P	20900	6186	9823	3929	
208A	P	13280	2949	5060	1660	No extra depth added.
208	P	18750	3469	8325	3525	
209	P	45425	11764	17307	7812	
210	P	23975	5059	8871	2685	
211	P	650	96	265	90	
		137365	33370	55879	22191	
					15312	Premium
					37503	

July - Dredge to dig 90,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 36623
D.S. = 51541
88164

+5 Cu. Yds per lineal ft = 1700
Estimated Total Cu. Yds. = 89864

Recovery @ 20¢7 = 18404
Premium @ 35⁰⁰ = 12699
= $31103

Avg. Depth Muck = 36623 x 27 / 122,425 = 8.1
Avg. Depth D.S. = 51541 x 27 / 122,425 = 11.4
Avg. Total Depth = 88164 x 27 / 122,425 = 19.5

¢ per total Cu. Yd. = 3110300 / 89864 = 34.6
¢ per Sq. Ft. = 3110300 / 122,425 = 25.4

August - Dredge to dig 90,000 Cu. Yds

Estimated Total Cu. Yds. Muck. = 33370
D.S. = 55879
89249

+5 Cu. Yds per lineal Ft. = 0
Estimated Total Cu. Yds. = 89249

Recovery @ 20¢7 = 22191
Premium @ 35⁰⁰ = 15312
= $37503

Avg. Depth Muck = 33370 x 27 / 137365 = 6.6
Avg. Depth D.S. = 55879 x 27 / 137365 = 11.0
Avg Total Depth = 89249 x 27 / 137365 = 17.6

¢ per total Cu. Yd. = 3750300 / 89249 = 42.0
¢ per Sq. Ft. = 3750300 / 137,365 = 27.3

Dredge No 7 - 1948 Estimate — Av. 35.00

September - 90,000 Cu. Yds.

Δ No	Part or All	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds	Value $
208B	P	1150	340	540	216
208A	P	9720	2157	3703	1215
208	P	1250	231	555	235
209	P	2875	745	1095	495
210	P	17825	3761	6595	1996
226B	P	24300	9259	8091	875
226A	P	18050	4675	7347	703
226	P	45930	6292	17499	1562
225	P	13290	838	5754	425
		134390	28298	51179	7722
					5322
					13044

Add 5 Cu. Ft. per lin. ft. along old cut.

+ 2' Extra depth = 9955 Cu Yds.

October - 80,000 Cu. Yds. - Shut-down on Nov. 1

Δ No.	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
226B	P	1500	571	500	54
226A	P	13200	3419	5372	515
226	P	2880	395	1097	98
225	P	12960	816	5612	415
227B	P	10525	3115	4409	410
227A	P	13858	3076	4975	1040
227	P	18175	1544	7869	1817
228	P	39185	1019	18417	2234
229	P	3250	240	1323	396
		115533	14195	49574	6979
					4815
					11794

Add 5 Cu. Ft. per lin. ft. along old cut.

+ 3.5 ft. extra depth = 14976 Cu Yds

September - Dredge to dig 90,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 28298
D.S. = 51179
+2' extra depth = 9955
61134
89,432
+5 Cu. Yds per lin. ft. of old cut = 0
Estimated Total Cu. Yds. = 89,432

Recovery @ 20^{57} = 7722
Premium @ 35^{00} = 5322
$13,044

Avg Depth Muck = $\frac{28298 \times 27}{134390} = 5.7$
D.S. = $\frac{61134 \times 27}{134390} = 12.3$
Total Depth = $\frac{89432 \times 27}{134390} = 18.0$

¢ per total Cu. Yd. = $\frac{1304400}{89432} = 14.6$
¢ per Sq. Ft. = $\frac{1304400}{134390} = 9.7$

October - Dredge to dig 80,000 Cu. Yds.

Estimated total Cu. Yds. Muck = 14195
D.S = 49574
+3.5 ft. extra Depth = 14976
64550
78,745
+5 Cu. Yds. per lineal ft. of old cut 0
78,745

Recovery @ 20^{57} = 6979
Premium @ 35^{22} = 4815
$11,794

Avg. Depth Muck = $\frac{14195 \times 27}{115533} = 3.3$
Avg. Depth D.S. = $\frac{64550 \times 27}{115533} = 15.1$
Total Depth = $\frac{78745 \times 27}{115533} = 18.4$

¢ per total Cu. Yd. = $\frac{1179400}{78745} = 15.0$
¢ per Sq. Ft. = $\frac{1179400}{115533} = 10.2$

Dredge No 7 Recapitulation – Season 1948 – Au. 35[00]

Starts May 1st – To dig 500,000 Cu. Yds. – Shut down on Nov 1st

Avg Extra depth added = 0.9 Ft.

Month	Area Sq. Ft.	Depth Ft.	Total Cu Yds.	Recovery @ 20[57]	Premium @ 35[00]	Gross ¢	¢ per Cu. Yd.	¢ per Sq. Ft.	Extra Depth Added
May	115,072	16.5	72328	5890	4064	9954	13.7	8.6	0
June	118,064	18.3	81848	8333	5750	14083	17.2	11.9	0
July	122,425	19.5	89,864	18404	12699	31103	34.6	25.4	0
August	137,365	17.6	89,249	22191	15312	37503	42.0	27.3	0
September	134390	18.0	89,432	7722	5322	13044	14.6	9.7	2.0
October	115533	18.4	78,745	6979	4815	11794	15.0	10.2	3.5
Totals	742849		501466	69519	47962	117481	23.4		0.9

Estimated Stripping Write off = 247,800 Cu. Yds.
" Thawing " = 496,800 " "
No Royalties payable.

Dredge No 8 - 1948 Budget Estimate - Au. - $35.00

May - 105,000 Cu. Yds.

△ No	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds	Value $	
529	P	9120	1350	5983	1550	
530	P	23841	2908	14757	3743	Add 5 Cu. Yds per lineal foot along old cut.
531	P	55424	11694	36425	8036	
532	P	25132	4925	12742	2186	
533	P	11750	3783	5957	884	
		125267	24660	70864	16349	+2' extra depth = 9279 Cu. Yds.
					11281	Premium
					27630	

June - 120,000 Cu. Yds.

△ No.	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
519	P	1680	354	976	84	
520	P	33890	12166	18843	2813	Add 5 Cu. Yds. per lineal foot along old cut.
521	P	71496	14013	38894	7722	
522	P	22400	4390	12454	3472	
516	P	18270	1553	10615	1735	
517	P	2340	372	1273	159	No extra depth added.
518	P	2970	362	1574	143	
		153,046	33210	84629	16128	
					11128	Premium
					27256	

May - Dredge to dig 105,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 24,660
D.S. = 70864
+ 2' extra depth = 9279 = 80,143
104,803
+ 5 Cu. Yds. per lineal foot = 2200
Estimated total Cu. Yds. = 107,003.

Recovery @ 20⁶⁷ = 16349
Premium @ 35⁰⁰ = 11281 = $ 27630⁰⁰

Avg. Depth Muck = 24660 x 27 / 125,267 = 5.3
D.S. = 80143 x 27 / 125,267 = 17.3
Total Depth = 104,803 x 27 / 125,267 = 22.6

¢ per total Cu. Yd. = 2763000 / 107003 = 25.8
¢ per Sq. Ft. = 2763000 / 125,267 = 22.1

June - Dredge to dig 120,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 33210
D.S. = 84629
117,839
+ 5 Cu. Yds. per lineal foot = 0
Estimated Total Cu. Yds. = 117,839

Recovery @ 20⁶⁷ = 16128
Premium @ 35⁰⁰ = 11128 = $ 27256⁰⁰

Avg. Depth Muck = 33210 x 27 / 153,046 = 5.9
D.S. = 84629 x 27 / 153,046 = 14.9
Total Depth = 117,839 x 27 / 153,046 = 20.8

¢ per total Cu. Yd. = 2725600 / 117,839 = 23.1
¢ per Sq. Ft. = 2725600 / 153,046 = 17.8

Dredge № 8 - 1948 Budget Estimate.

Au. - #35.00

July - 155000 Cu. Yds.

Δ №	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
515	P	846	72	502	85
516	P	39640	3369	23031	3766
517	P	67095	10668	36500	4562
518	P	2250	275	1192	108
503	P	12430	3542	6128	1827
504	P	70184	12984	36425	12142
505	P	11080	1108	5750	3047
506	P	400	30	222	70
		203925	32048	109750	25607
					17669
					43276

Add 5 Cu. Yds per lineal foot along old cut

+ 2' extra depth = 15105 Cu. Yds.

Premium

August - 155,000 Cu. Yds.

Δ №	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
505	P	15180	1518	7878	4175
506	P	64840	4798	36051	11282
507	P	5170	439	2812	972
514	P	37260	3167	21126	9576
515	P	74681	6348	44286	7468
516	P	15480	1316	8994	1471
		212611	17586	121147	34944
					24111
					59055

Add 5 Cu. Yds. per lineal foot along old cut

+ 2' extra depth = 15700 Cu. Yds.

Premium

July - Dredge to dig 155,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 32048

D.S. = 109,750

+2' extra depth = 15,105 = 124855

156,903

+5 Cu. Yds. per lineal foot along old cut = 0

Estimated Total Cu. Yds. = 156,903

Recovery @ 20¢ = 25607

Premium @ 35¢ = 17669

= $ 43276.00

Avg. Depth Muck = 32048 x 27 = 4.2 / 203,925

D.S. = 124,855 x 27 = 16.5 / 203,925

Total Depth = 156,903 x 27 = 20.7 / 203,925

¢ per total Cu. Yd. = 432700 = 27.6 / 156,903

¢ per Sq. Ft. = 432700 = 21.2 / 203,925

August - Dredge to dig 155,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 17586

D.S. = 121147

+2' extra depth = 15700

136,847

154433

+5 Cu. Yds. per lineal foot along old cut = 2000

Estimated Total Cu. yds. = 156433

Recovery @ 20¢ = 34944

Premium @ 35¢ = 24111

= $ 59055.00

Avg. Depth Muck = 17586 x 27 = 2.2 / 212,611

D.S. = 136 847 x 27 = 17.4 / 212,611

Total Depth = 154433 x 27 = 19.6 / 212,611

¢ per Total Cu. Yd. = 5905500 = 37.8 / 156433

¢ per Sq. Ft. = 5905500 = 27.8 / 212,611

Dredge Nº 8 - 1948 Budget Estimate

Au. - 35^{00}

September - 150,000 Cu. Yds.

Δ Nº	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
521	P	7254	1422	3946	783	
522	P	52601	10310	29246	8153	
523	P	56579	4809	32080	16884	Add 5 Cu. Yds per lineal foot along old cut
531	P	5738	1210	3253	832	
530	P	418	51	258	66	
529	P	11210	1659	7353	1906	
524	P	36685	3118	22708	11152	
525	P	8342	709	5780	2253	
		178827	23288	104624	42029	+ 2.7' extra depth = 17,800 Cu. Yds
					29000	Premium.
					71029	

October - 150,000 Cu. Yds.

	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
523	P	20750	1763	11765	6225	
524	P	18250	1551	11296	5548	
525	P	11500	977	7969	3105	
514	P	36176	3075	20512	9297	
515	P	414	35	245	41	
513	P	58500	8014	35334	14742	
512	P	19936	2731	13516	5223	
506	P	560	41	311	97	
507	P	500	43	272	94	
508	P	9880	1462	6115	1077	
		176,466	19692	107335	45449	+ 3' extra depth = 19600 Cu. Yds.
					31360	Premium
					76809	

September - Dredge to dig 150,000 Cu. Yds.

Estimated Total Cu. Yds. Muck. = 23288

D.S. = 104,624

+2.7' extra depth = 17,800 = 122424

145,712

+5 Cu. Yds. per lineal foot along old cut = 5000

Estimated Total Cu. Yds. = 150,712

Recovery @ 20¢ = 42029

Premium @ 35¢ = 29000 = $71029.00

Avg. Depth Muck. = 23288 x 27 / 178827 = 3.5

D.S. = 122,424 x 27 / 178827 = 18.5

Total Depth = 145,712 x 27 / 178827 = 22.0

¢ per total cu. yd. = 7102900 / 150,712 = 47.1

¢ per square ft. = 7102900 / 178,827 = 39.7

October - Dredge to dig 150,000 Cu. Yds.

Estimated Total Cu. Yds. Muck. = 19692

D.S. = 107,335

+3' extra depth = 19,600 = 126935

146627

+5 Cu. yds per lineal foot along old cut = 3900

Estimated Total Cu. Yds. 150,527

Recovery @ 20¢ = 45449

Premium @ 35¢ = 31360 = $76809.00

Avg. Depth Muck = 19692 x 27 / 176,466 = 3.0

D.S. = 126,935 x 27 / 176,466 = 19.4

Total Depth = 146627 x 27 / 176,466 = 22.4

¢ per total Cu. Yd. = 7680900 / 150,527 = 51.0

¢ per Square foot = 7680900 / 176,466 = 43.5

Dredge N°8 - 1948 Budget Estimate — Au. $35.00

November - 15000 Cu. Yds.

Δ N°	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
506	P	300	22	167	52
507	P	2520	214	1370	474
508	P	16310	2413	10095	1778
		19130	2649	11632	2304
					1590
					3894

Add 5 Cu. Yds per lineal foot along the cut

+1 ft extra depth = 708 Cu. Yds

Premium

Dredge N°8 - Recapitulation - Season 1948 - Au. 35.00

Starts May 1st - To dig 850,000 Cu. Yds

Month	Area Sq. Ft	Depth Ft.	Total Cu. Yds.	Recovery @ 20%	Premium @ 35.00	Gross $	¢ per Cu. Yd.	¢ per Sq. Ft	Extra depth added
May	125,267	22.6	107,003	16349	11281	27630	25.8	22.1	2.0
June	153 046	20.8	117,839	16128	11128	27256	23.1	17.8	0.0
July	203,925	20.7	156,903	25607	17669	43276	27.6	21.2	2.0
August	212,611	19.6	156,433	34944	24111	59055	37.8	27.8	2.0
Sept.	178,827	22.0	150,712	42029	29000	71029	47.1	39.7	2.7
Oct.	176,466	22.4	150,527	45449	31360	76809	51.0	43.5	3.0
Nov.	19130	21.1	15314	2304	1590	3894	25.4	20.4	1.0
Totals.	1069272		854731	182810	126139	308949	36.1	27.5	2.0

Estimated Thaw. Write off = 927400 Cu. yds.
Strip = 666500

Estimated Royalty payable on Claim 61A Below Sulphur = $9512.00
61 = $5392.00

November - Dredge to dig 15000 Cu. Yds.

Estimated Total Cu. Yds. Muck. = 2649

D.S. = 11632

+1 ft. extra depth = 708 = 12340

14989

+5 Cu. Yds. per lineal ft. along old cut = 325

Estimated Total Cu. Yds. = 15314

Recovery @ 20¢ = 2304

Premium @ 25¢ = 1590 = $3894.00

Avg. Depth Muck = 2649 x 27 / 19130 = 3.7

D.S. = 12340 x 27 / 19130 = 17.4

Total Depth = 14989 x 27 / 19130 = 21.1

¢ per total Cu. Yd = 389400 / 15314 = 25.4

¢ per Sq. Ft. = 389400 / 19130 = 20.4

Dredge N° 10 - 1948 Budget Estimate - Au. #35-00

May - 105,000 Cu. Yds.

Δ N°	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
153	P	1250	0	634	66	
152	P	38105	0	18785	13451	Add 5 Cu. Yds. per lineal foot old cut
152A	P	4735	0	1629	1643	
152B	P	1920	0	710	261	
163	P	9025	1570	3438	3105	
162	P	26560	4621	14077	8924	
161	P	38780	9035	17683	1900	
160	P	28700	1808	14551	1837	
		149075	17034	71507	31187	+ 3' extra depth = 16563 Cu. Yds.
					21519	Premium
					52706	

June - 120,000 Cu. Yds.

Δ N°	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
164	P	6250	300	1456	369	
165	P	32650	7248	9350	2743	
166	P	51000	13770	16422	8568	Add 5 Cu. Yds. per lineal foot of old cut.
167	P	23828	6790	7935	3193	
178	P	6240	1685	1548	1012	
179	P	38720	8170	10455	5576	
180	P	12940	2057	7816	996	
181	P	9920	476	5992	744	
		181,548	40496	60974	23201	
					16009	+ 3' extra depth = 20172 Cu. Yds.
					39210	Premium

May - Dredge to dig 105,000 Cu. Yds.

Estimated Total Cu. Yds. Muck. = 17034

D. S. = 71507

+3' extra depth = 16563 = 88070

105,104

+5 Cu. Yds. per lineal foot along old cut = 0

Estimated Total Cu. Yds. = 105,104

Recovery @ 20⁶⁷ = 31187

Premium @ 35⁰⁰ = 21519 = $ 52706⁰⁰

Avg. Depth Muck = $\frac{17034 \times 27}{149075} = 3.1$

D. S. = $\frac{88070 \times 27}{149075} = 16.0$

Total Depth = $\frac{105,104 \times 27}{149075} = 19.1$

¢ per total cu. yd. = $\frac{5270600}{105,104} = 50.1$

¢ per square foot = $\frac{5270600}{149075} = 35.4$

June - Dredge to dig 120,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = = 40496

D. S. = 60974

+3' extra depth = 20172 = 81146

121642

+5 Cu. Yds. per lineal foot along old cut = 0

Estimated Total Cu. Yds. = 121642

Recovery @ 20⁶⁷ = 23201

Premium @ 35²² = 16009 = $ 39210⁰⁰

Avg. Depth Muck = $\frac{40496 \times 27}{181,548} = 6.0$

D. S. = $\frac{81146 \times 27}{181,548} = 12.1$

Total Depth = $\frac{121642 \times 27}{181,548} = 18.1$

¢ per total cu. yd. = $\frac{3921000}{121642} = 32.2$

¢ per square foot = $\frac{3921000}{181,548} = 21.6$

Dredge Nº 10 1948 Budget Estimate - Au. 35⁰⁰

July - 155000 Cu. Yds.

Δ Nº	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
178	P	6625	1788	1643	1073
177	P	35475	6172	12203	7307
176	P	12495	2774	4485	1799
167	P	21560	6145	7179	2889
168	P	63750	7777	24288	9945
169	P	22080	3511	8412	2694
159	P	39770	5886	15152	4494
160	P	17025	1072	8631	1090
161	P	7425	1730	3385	364
158	P	6300	769	2564	706
		232505	37624	87942	32361
					22329
					54690

Add 5 cu. yd. per lineal foot along old cut.

+ 3' extra depth = 25834

Premium

August - 155000 Cu. Yds.

Δ Nº	Part or All	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds.	Value $
158	P	42450	5179	17277	4754
159	P	3500	518	1333	396
160	P	3600	227	1825	230
152	P	812	0	400	286
153	P	1200	0	608	64
154	P	19800	732	11226	1148
155	P	3450	255	1621	228
156	P	16530	1223	6545	1157
156A	P	1200	146	413	66
156B test	P	1400	119	658	97
157A	P	37400	6507	15222	1384
157	P	24500	3895	8428	1862
159	P	13200	1953	5029	1492
169	P	22610	3595	8614	2758
170	P	7412	1015	2550	904
171	P	12320	1959	3511	973
		211384	27323	85260	17799
					12281
					30080

Add 5 Cu. Yds per lineal foot along old cut.

+4.6' Extra depth = 36014 Cu. Yds.

Premium

July - Dredge to dig 155,000 Cu. Yds.

Estimated Total Cu. Yd. Muck = 37624

D.S. = 87942

+3' extra depth = 25834 = 113776

151400

+5 Cu. Yd. per lineal ft. along cut = 4600

Estimated Total Cu. Yds = 156000

Recovery @ 20% = 32361

Premium @ 35¢ = 22329

= $ 54690

Avg. Depth Muck = $\frac{37264 \times 27}{232,505} = 4.3$

D.S. = $\frac{113776 \times 27}{232,505} = 13.2$

Total Depth = $\frac{151400 \times 27}{232505} = 17.5$

¢ per total Cu. Yd. = $\frac{5469000}{156,000} = 35.1$

¢ per square foot = $\frac{5469000}{232,505} = 23.5$

August - Dredge to dig 155,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 27323

D.S = 85260

+4.6' extra depth = 36014 = 121274

148597

+5 Cu. Yd. per lineal ft. along cut = 6800

Estimated total Cu. Yds = 155397

Avg. Depth Muck = $\frac{27323 \times 27}{211384} = 3.4$

D.S. = $\frac{121274 \times 27}{211384} = 15.5$

Total Depth = $\frac{148597}{21138.4} = 18.9$

¢ per total Cu. Yd. = $\frac{3008000}{155397} = 19.3$

¢ per square foot = $\frac{3008000}{21138.4} = 14.2$

Recovery @ 20% = 17799

Premium @ 35¢ = 12281

$ 30080.00

Dredge Nº 10 - 1948 Budget Estimate — Au. 35ºº

September - 150,000 Cu. Yds.

Δ Nº	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S Cu. Yds.	Value $
169	P	10150	1613	3867	1238
170	P	29190	3999	10041	3561
171	P	9856	1567	2809	778
172	P	21000	1554	5670	546
173	P	17000	1445	4590	765
174	P	45000	8325	13320	3105
175	P	35000	5180	12565	3290
176	P	38665	8584	13880	5567
177	P	1575	274	542	324
		207436	32541	67283	19174
					13230
					32404

+6' extra depth = 46090 Cu. Yds.
Premium

October - 150,000 Cu. Yds.

Δ Nº.	Part or All	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds	Value $
176	P	2800	622	1005	403
177	P	12309	2142	4234	2535
178	P	39412	10641	9774	6385
179	P	11280	2380	3045	1624
180	P	34560	5495	20874	2661
181	P	2880	138	1739	216
182A	P	29750	6604	15767	744
182	P	26068	8394	6074	1903
183	P	41895	13490	11940	5991
184	P	10002	3070	3440	1810
		210956	52976	77892	24272
					16748
					41020

+2.3' extra depth = 17970 Cu. Yds.
Premium

September - Dredge to dig 150,000 Cu. yds.

Estimated total Cu. Yds. Muck = = 32541
D.S. = 67283
+6' extra depth = 46090
113373
145914
+5 Cu. Yds. per lineal foot along old cut 3450
Estimated Total Cu. Yds. 149364

Estimated Recovery @ $20.67 = 19174
Premium @ $35.00 = 13230
= $ 32404.00

Arg. Depth Muck = 32541 x 27 / 207436 = 4.2
¢ per total cu. yd. = 3240400 / 149,364 = 21.7
D.S. = 113373 x 27 / 207436 = 14.8
¢ per square foot = 3240400 / 207436 = 15.6
Total Depth = 145,914 x 27 / 207436 = 19.0

October - Dredge to dig 150,000 Cu. Yds.

Estimated total Cu. Yds. Muck = 52976
D.S. = 77892
+2.3' extra depth = 17970
= 95862
148,838
+5 Cu. Yds. per lineal foot along old cut = 2100
Estimated Total Cu. Yds. = 150,938

Estimated Recovery @ $20.67 = 24272
Premium @ 35.00 = 16748
= $ 41020.00

Arg. Depth Muck = 52976 x 27 / 210956 = 6.8
¢ per total cu. yd = 410200 / 150,938 = 27.2
D.S. = 95862 x 27 / 210956 = 12.3
¢ per sq. ft. = 410200 / 210956 = 19.4
Total Depth = 148,838 x 27 / 210956 = 19.1

Dredge Nº 10 – 1948 Budget Estimate Au. 35¢

November – 15,000 Cu. Yds.

Δ Nº.	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
182	P	8560	3756	1994	625	
183	P	3040	978	866	435	
184	P	9600	2947	3302	1737	
		21200	6681	6162	2797	+ 2.6' extra depth = 2041 Cu. Yds.
					1930	
					4727	

Dredge Nº 10 Recapitulation – Season 1948 Au. 35¢

Month	Days Rn	Area Sq. Ft.	Depth Feet	Total Cu. Yds.	Recovery @ 20%	Premium @ 35¢	Gross $	¢ per Cu. Yd.	¢ per Sq. Ft	Extra depth added.
May	31	149,075	19.1	105,104	31187	21,519	52706	50.1	35.4	3.0
June	30	181,548	18.1	121,642	23,201	16,009	39210	32.2	21.6	3.0
July	31	232,505	17.5	156,000	32361	22329	54690	35.1	23.5	3.0
August	31	211,384	18.9	155,397	17,799	12281	30080	19.3	14.2	4.6
Sept.	30	149,364	19.0	149,364	19,174	13230	32404	21.7	15.6	6.0
Oct.	31	210,956	19.1	150,938	24,272	16,748	41020	27.2	19.4	2.3
Nov.	5	21,200	18.9	14,884	2797	1930	4727	31.8	22.3	2.6
Totals	189	1156032	18.7	853329	150791	104,046	254837	29.9	24.3	3.8

Starts May 1st – Shut down Nov 6th – To dig 850,000 Cu. Yds.

Estimated Thawing Write off = 791100 Cu. Yds.

" Stripping Write off = 553400 Cu. Yds.

No Royalties payable

November - Dredge to dig 15000 Cu. Yds.

Estimated total Cu. Yds Muck = 6681

D.S. = 6162

+2.6' extra depth = 2041

8203

14884

+5 Cu. Yds. per lineal foot along edge of old cut = 0

Estimated total cu. yds 14884

Recovery @ 20¢ = 2797

Premium @ 35¢ = 1930

= $ 4727.00

Avg. Depth Muck = $\frac{6681 \times 27}{21200} = 8.5$

" " D.S. = $\frac{8203 \times 27}{21200} = 10.4$

Total Depth = $\frac{14884 \times 27}{21200} = 18.9$

¢ per total Cu. Yd. = $\frac{472700}{14884} = 31.8$

¢ per Square foot = $\frac{472700}{21200} = 22.3$

Dredge Nº 11 — 1948 Budget Estimate - - Au. 35⁰⁰

May - 115,000 Cu. Yds

Δ Nº.	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
331 tout	P	13600	4529	5181	3740	Add 10 cu. yds. per lineal foot along old cut.
332	P	29150	11863	12213	2215	
333	P	24100	8652	12219	458	
334	P	26620	4632	15786	6975	
335 tout	P	30010	6332	18906	8073	
		123,480	36008	64305	21461	+ 1.5' extra depth = 6860 Cu. Yds.
					14808	Premium.
					36269	

June - 140,000 Cu. Yds.

Δ Nº.	Part or All	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds.	Value $	
332	P	11100	4518	4651	844	
333	P	750	269	380	14	
334	P	1380	240	818	361	Add 10 Cu. Yds. per lineal foot.
329	P	50,000	14250	27800	4850	
330	P	50,000	11100	21650	2750	
331	P	3,750	1248	1428	1031	
326	P	33900	3390	16306	1695	
327	P	11320	962	5739	363	
		162200	35977	78772	11908	+ 3' extra depth = 18022 Cu. Yd.
					8216	Premium.
					20124	

May - Dredge to dig 115,000 Cu. Yds.

Estimated Total cu. yds. Muck. = 36008

D.S. = 64305

+1.5' extra depth = 6860

71165

107173

+10 Cu. Yds. per lineal foot = 8800

Estimated Total Cu. Yds: 115,973

Recovery @ 20¢ = 21461

Premium @ 35¢ = 14808

= $36269.00

Avg Depth Muck = $\frac{36008 \times 27}{123,480} = 7.9$

D.S. = $\frac{71165 \times 27}{123,480} = 15.5$

Total Depth = $\frac{107,173 \times 27}{123,480} = 23.4$

¢ per total cu. yd. = $\frac{3626900}{115,973} = 31.3$

¢ per Square Foot. = $\frac{3626900}{123,480} = 29.4$

June - Dredge to dig 140,000 Cu. Yds.

Estimated Total Cu Yds. Muck = 35977

D.S. = 78772

+3' extra depth = 18022

96794

132771

+10 Cu. Yds. per lineal foot along old cut = 7850

Estimated Total Cu. Yds. = 140,621

Recovery @ 20¢ = 11908

Premium @ 35¢ = 8216

= $20124.00

Avg. Depth Muck = $\frac{35977 \times 27}{162200} = 6.0$

D.S. = $\frac{96794 \times 27}{162,200} = 16.1$

Total Depth = $\frac{132771 \times 27}{162,200} = 22.1$

¢ per total cu. yd. = $\frac{2012400}{140621} = 14.3$

¢ per Square foot = $\frac{2012400}{162,200} = 12.4$

Dredge № 11 - 1948 Budget Estimate

July - 150,000 Cu. Yds

Δ №	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
326	P	16100	1610	7744	805
327	P	45360	3855	22997	1451
328	P	26403	6152	11432	660
325	P	3580	1020	1550	251
321A	P	1300	495	370	152
		92743	13132	44093	3319
					2290 Premium
+ 3' extra depth =				10304	$5609
Tailings		65607		72897	10935 @15¢ per cu. yd.
Totals		158350	13132	127,294	16544

Add 10 cu. yds. per lineal foot along old cut.

August - 150,000 Cu. Yds.

Δ №	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
325	P	2150	612	930	150
321A	P	36237	13806	10327	7419
		38387	14418	11257	4390
					3029 Premium
+ 3' extra depth =				4265	7419
				15522	
Tailings		98670		109634	16445
Totals		137,057	14418	125,156	23864

Add 10 cu. yd. per lin. ft. along old cut.

July - Dredge to dig 150,000 Cu. Yds.

Estimated total Cu. Yds. Muck = 13132

D.S. = 44093
+ 3' extra depth = 10304
+ Tailings = 72897
127294
140426
+10 Cu. Yds. per lineal foot along old cut = 9150
Estimated Total Cu. Yds. 149,576

Recovery @ 20¢ = 3319
Premium @ 35¢ = 2290
+ 72897 Cu. yds. Tailings @ 15¢ = 10935
Estimated Total Recovery = $16544.00

Av. Depth Muck = $\frac{13162 \times 27}{158,350} = 2.2$

D.S. = $\frac{127,294 \times 27}{158,350} = 21.7$

Total Depth = $\frac{140,426 \times 27}{158350} = 23.9$

¢ per Total Cu. Yd. = $\frac{1654400}{149,576} = 11.1$

¢ per sq. ft. = $\frac{1654400}{158350} = 10.4$

August - Dredge to dig 150,000 Cu. Yds.

Estimated total Cu. Yds. Muck = 14,418

D.S. = 112 57
+ 3' extra depth = 4,265
115522
29940
+ Tailings = 109,634
139,574
+10 Cu. Yds. per lineal foot along old cut = 9,000
Estimated Total Cu. Yds. = 148,574

Recovery @ 20¢ = 4390
Premium @ 35¢ = 3029
+ 109,634 Cu. Yds. Talings @ 15¢ = 16445
Estimated Total Recovery = $23864.00

Avg. Depth Muck = $\frac{14418 \times 27}{137,057} = 2.8$

D.S. = $\frac{125,154 \times 27}{137,057} = 24.7$

Total Depth = $\frac{139,564 \times 27}{137,057} = 27.5$

¢ per Total Cu. Yd. = $\frac{2386400}{148,564} = 16.1$

¢ per Sq. Ft. = $\frac{2386400}{137,057} = 17.4$

Dredge № 11 – 1948 Budget Estimate

September 150,000 Cu. Yds.

Δ №	Part or All	Area Sq. Ft	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
321A	P	600	228	171	70	Add 10 Cu. yd. per lin. ft. along old cut.
317 out	P	37944	7020	18251	21286	
321	P	42480	12574	15718	24511	
321A	P	2120	808	604	248	
320	P	16340	4656	6046	9101	
		99484	25286	40790	55216	
					38099	Premium
		+3' extra	depth	11053	93315	
Tailings		58,181		64646	9697	
Totals		157,665	25286	116,486	103,012	

October – 130,000 Cu. yds.

Δ №	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
320	P	13560	3865	5017	7553	
321	P	2520	746	932	1454	
321A	P	3270	1245	932	382	
324	P	37600	7370	18085	3986	Add 10 cu. yds. per lin. ft. along old cut
325	P	31480	8972	13630	2203	
328	P	2730	636	1182	68	
327	P	4800	408	2433	154	
323	P	50440	5044	25573	2724	
322	P	8900	890	3391	392	
		155300	29176	71175	18916	
					12170	Premium
		+3' extra	depth =	17256	31086	
Tailings		—		—	—	
Totals		155300	29176	119517	31086	

September - Dredge to dig 150,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 25286

D.S. = 40790

+ 3' extra depth = 11053 → = 116,486

+ Tailings = 64646 → = 141,772

+ 10 c.y. per lin. ft. along old cut. = 7,300

Estimated Total Cu. Yds. = 149,072

Recovery @ 20¢ = 55216

Premium @ 35.00 = 38099

+ 64646 Cu. Yds. Tails @ 15¢ = 9697

= $103,012.00

Avg. Depth Muck = $\frac{25,286 \times 27}{157,665} = 4.3$

¢ per total Cu. yd. = $\frac{10301200}{149,072} = 69.1$

D.S. = $\frac{116,486 \times 27}{157,665} = 19.9$

¢ per Sq. Ft. = $\frac{10301200}{157,665} = 65.3$

Total Depth = $\frac{141,772 \times 27}{157,665} = 24.2$

October - Dredge to dig 130.000 Cu. yds.

Estimated Total Cu. yds. Muck = 29,176

D.S. = 71,175

+ 3' extra depth = 17,256 → = 188431

117607

+ 10 cu. yds. per lineal foot along old cut. = 11150

Estimated Total Cu. yds. = 128757

Recovery @ 20¢ = 18916

Premium @ 35.00 = 12170

= $31086.00

Avg. Depth Muck = $\frac{29176 \times 27}{155,300} = 5.1$

¢ per total Cu. yd. = $\frac{3108600}{128,757} = 24.1$

D.S. = $\frac{88431 \times 27}{155300} = 15.3$

¢ per Sq. Ft = $\frac{3108600}{155300} = 20.0$

Total Depth = $\frac{117,607 \times 27}{155,300} = 20.4$

Dredge Nº 11 - 1948 Budget Estimate

November - 15000 Cu. Yds.

Δ Nº	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
322	P	7800	780	2972	343.	Add 10 cu. yd. per lineal foot along old cut.
323	P	5070	507	2570	274	
324	P	6240	1223	3001	661	
		19110	2510	8543	1278	+4' extra depth = 2831 Cu. Yds.
					882	Premium
					2160	

Dredge Nº 11 Recapitulation Season 1948 Au. 35ºº

Starts May 1st. Shuts down Nov. 6th (ie- 5 days run) - to dig 850,000 Cu. yds.

Month	Days Run	Area Sq. Ft.	Depth Feet	Total Cu. Yds.	Recovery @ 20¢	Premium @ 35ºº	Gross $	¢ per Cu. Yd.	¢ per Sq. Ft.	Extra depth added.
May	31	123480 ✓	23.4	115973	21461	14808	36269	31.3	27.4	1.5
June	30	162200 ✓	22.1	140621	11908	8216	20124	14.3	12.4	3.0
July	31	~~92743~~ 158300 ✓	23.9	149,606	14254	2290	16544	11.1	10.4	3.0
August	31	137057 ✓	27.5	148,564	20835	3029	23864	16.1	17.4	3.0
Sept.	30	~~99484~~ 157665 ✓	24.2	149,072	64913	38099	103012	69.1	65.3	3.0
Oct.	31	155300	20.4	128757	18916	~~42170~~ 130512	~~21968~~ 31686	24.1	20.0	~~3.0~~
Nov.	5	19110	19.6	15,184	1278	882	2160	13.8	11.0	4.0
	189	~~649604~~ 913162	25.1	847,777	153565	79494 80376	233059 233941	27.5	35.9	~~2.9~~ 2.1

Total Yardage includes 247,177 Cu. Yds. Tailings @ 15¢ per cu. yd.

Estimated Stripping Write off = 318,375 Cu. Yds.

Estimated Thawing Write off = 496,922 Cu. Yds.

No Royalty payable

Avg. extra depth added in Virgin ground = ~~2.5~~ 2.1

November - Dredge to dig 15,000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 2510

D.S. = 8543

+4' extra depth = 2831 = 11374

13884

+10 cu. yds. per lineal foot along old cut = 1300

Estimated Total Cu. Yds. = 15,184

Recovery @ 20% = 1278

Premium @ 35¢ = 882 = $2160.00

Avg. Depth Muck = $\frac{2510 \times 27}{19110} = 3.5$ ¢ per total Cu. Yd = $\frac{216000}{15,184} = 13.8$

D.S. = $\frac{11374 \times 27}{19110} = 16.1$ ¢ per Sq. Ft. = $\frac{216000}{19110} = 11.0$

Total Depth = $\frac{13884 \times 27}{19110} = 19.6$

Dredge No. 3. – 1948 Budget Estimate. Av. $35.00

Month	Days Run	Area Sq Ft	Depth Ft.	Cu. Yds.	Gross $	¢ per Cu. Yd.	¢ per Sq. Ft.
May	31	163450	36.3	219,848	24769	11.3	15.2
June	30	186844	34.7	240,253	22955	9.8	12.3
July	31	247,804	33.8	309,891	26648	8.7	10.8
Aug.	31	246,992	34.5	315,731	31,000	9.8	12.6
Sept.	30	238,925	34.0	300,514	27,199	9.1	11.4
Oct.	31	222,640	34.1	281,115	28,572	10.5	12.8
Nov.	5	31,500	34.3	40,000	4,043	10.5	12.8
	189	1,338,155	34.4	1,707,352	165,186	9.7	12.3

Add 15 Cu. Yd. per lineal foot along old cut.

No Write off.
No Royalty.

Depths are triangle depths
Value per yard is based on actual cents per yard recovered in adjacent ground.

Jensen Dragline - Season 1948 - Au. 25th

By Months next page (56)

△ No	Part of Fill	Area Sq. Ft.	Muck Cu. Yds	D.S. Cu. Yds	Value $
793	P	21343	1814	4183	1575
794	P	440	37	175	11
795	P	1000	85	333	28
771	P	17000	1445	4216	374
772	P	46640	3964	10867	700
773	P	15800	1343	3681	1043
756	P	17600	1496	2411	211
757	P	46630	3963	8623	746
758	P	11100	943	1765	366
739	P	1600	136	296	45
740	P	4500	382	1165	324
741	P	27161	2308	5072	1956
742	P	33800	2873	6273	2436
743	P	3325	283	775	239
754	P	5040	428	987	570
755	P	39606	3366	9822	4871
756	P	30440	2587	4170	365
772	P	680	58	158	10
773	P	300	25	70	20
774	P	5000	425	1480	890
774	P	31303	2660	9265	5571
773	P	32094	2727	7477	2118
772	P	760	64	177	11
775	P	990	84	304	524
793	P	640	54	125	45
792	P	8221	698	1520	863
791	P	37944	3225	8840	17112
790	P	2050	174	508	934
776	P	3680	312	1089	1751
775	P	43061	3660	13219	22822
774	P	4370	371	1293	777
		494118	41990	110222	69248
					47781 Prem
					117029

Jensen Dragline - Season 1948 - To dig 157000 Cu.Yds.

Estimated Total Cu.Yds. Muck = 41990
" " " D.5 = 110222
" " " M.D.S. = 157212

Estimated Recovery @ 70¢ = $69248
" Premium @ 35¢ = 47781
" Total Recovery = $117029

Estimated value per Cu.Yd. = $\frac{11702900}{157212}$ = 76.9 ¢

" " " Sq.Ft. = $\frac{11702900}{494118}$ = 23.7 ¢

Estimated depth of Muck = $\frac{41990 \times 27}{494118}$ = 2.3 Ft.

" " " D.S. = $\frac{110222 \times 27}{494118}$ = 6.0 "

" Total Depth = $\frac{157212 \times 27}{494118}$ = 8.3 "

Jenson Dragline by Months. – June – 11 days – 17600 Cu.Yds.

Av. 35ᶜᵉ

△ No	Part Fill	Area Sq. Ft.	Muck Cu.Yds.	D.S. Cu.Yds	Value $
793	P	21343	1814	4183	1514
794	P	440	37	125	11
795	P	1000	85	333	28
773	P	14080	1201	3303	935
772	P	7730	657	1801	116
771	P	12670	1076	3142	278
		57263	4874	12887	2883
				+ 1989	From
				4872	

July – 31 days – 49600 Cu.Yds.

△ No	Part Fill	Area Sq. Ft.	Muck Cu.Yds.	D.S. Cu.Yds.	Value $
771	P	4330	369	1074	96
772	P	38910	3307	9066	784
773	P	1720	138	378	108
756	P	17600	1496	2411	211
757	P	46630	3963	8623	746
758	P	11100	943	1765	366
739	P	1600	136	296	45
740	P	4500	382	1165	324
741	P	21806	1853	4034	1570
742	P	26795	2278	4916	1913
743	P	3385	283	775	239
		178096	15128	34503	6202
				+ 4279	From
				10481	

June - Dragline to dig 17600 Cu.Yds.

Estimated Total Cu.Yds. Muck		= 4874
" " " DS.		= 12884
" " Cu.Yds.		= 17761
" Recovery @ 20¢		= $3553
" Premium @ 35-00		= $1989.
" Total Recovery		= $4872
" Value per Cu.Yd.	= 487200 / 17761	= 27.4 ¢
" " " Sq. Ft.	= 487200 / 57263	= 8.5 ¢
" Depth Muck	= 4874 x 27 / 57263	= 2.3 Ft.
" " DS	= 12887 x 27 / 57263	= 6.1 Ft.
" Total Depth	= 17761 x 27 / 57263	= 8.4 Ft.

July - Dragline to dig 49600 Cu.Yds

Estimated Total Cu.Yds. Muck		= 15128
" " " DS.		= 34503
" " Cu.Yds		= 49631
" Recovery @ 20¢		= $6202
" Premium @ 35-00		= $4279
" Total Recovery		= $10481
" Value per Cu.Yd.	= 1048100 / 49631	= 21.1 ¢
" " " Sq. Ft.	= 1048100 / 178096	= 5.9 ¢
" Depth Muck	= 15128 x 27 / 178096	= 2.3 Ft.
" " DS.	= 34503 x 27 / 178096	= 5.2 Ft.
" Total Depth	= 49631 x 27 / 178096	= 7.5 Ft.

Jensen Dragline - August - 31 days - 49600 Cu. Yds.

△ No.	Part No.	Area Sq. Ft.	Muck Cu. Yds	OS. Cu. Yds	Value $
742	P	7???	615	1337	523
741	P	53??	455	991	386
756	P	5040	428	987	570
755	P	39606	3366	9822	4871
756	P	30440	2587	4170	365?
772	P	680	58	158	10
773	P	300	25	70	20
774	P	5000	425	1480	890
774	P	31303	2660	9265	5571
773	P	32094	2727	7477	2118
777	P	760	64	177	11
775	P	990	84	304	524
		158793	18494	36239	158?9
				+ 10943	Prem.
				26802	

Sept. - 22 days - 35?200 Cu. Yds

Area Sq. Ft.	Muck Cu Yds	OS. Cu Yds	Value $
99966	8494	26593	44304
			+ 30570 Prem.
			74874

Jensen Dragline - 1948 Budget Estimate - Au. 35??

Month	Days Run	Area Sq. Ft.	Depth Ft.	Total Cu Yds.	Gross $	¢ per Cu. Yd.	¢ per Sq. Ft.
June	11	5?263	8.4	17761	4872	27.4	8.5
July	31	178096	7.5	49631	10481	21.1	5.9
Aug.	31	158793	8.5	49733	26802	53.9	16.9
Sept.	22	99966	9.5	35087	74874	213.4	74.9
Totals	95	494118	8.3	152212	117029	76.9	23.7

August - Dragline to dig 49600 Cu.Yds.

Estimated Total Cu.Yds. Muck		= 13494
" " " O.S.		= 36239
" " Cu.Yds		= 49733
" Recovery @ 70%		= $15879
" Premium @ 35¢		= $10943
" Total Recovery		= $26802
" Value per Cu.Yd.	= 2680200 / 49733	= 53.9 ¢
" " " Sq.Ft.	= 2680200 / 158793	= 16.9 ¢
" Depth Muck	= 13494 x 27 / 158793	= 2.3 Ft.
" " O.S.	= 36239 x 27 / 158793	= 6.2 "
" Total Depth	= 49733 x 27 / 158793	= 8.5 "

September - Dragline to dig 35200 Cu.Yds.

Estimated Total Cu.Yds Muck		= 8494
" " " O.S.		= 26593
" " Cu.Yds		= 35087
" Recovery @ 70%		= $14.304
" Premium @ 35¢		= $30570
" Total Recovery		= $74874
" Value per Cu.Yd.	= 7487400 / 35087	= 213.4 ¢
" " " Sq.Ft.	= 7487400 / 99966	= 74.9 ¢
" Depth Muck	= 8494 x 27 / 99966	= 2.3 Ft.
" " O.S.	= 26593 x 27 / 99966	= 7.2 "
" Total Depth	= 35087 x 27 / 99966	= 9.5 "

Season 1949 - Au. 35^{00}

Dredge N°7 Budget Estimate - Min. Depth = 15.0'

5 Cts. per lin. ft. along cut

May - Dredge to dig 60000 Cu. Yds.

△ N°	Part of All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
215	P	12925	3011	4446	2973
216	P	33600	7846	13675	8030
214	P	7125	1654	2636	763
199	P	21701	1834	10200	2344
200	P	11425	548	5929	1062
201	P	13350	640	6421	961
Totals		100126	12933	43307	15933
				+	10994 Premium
				=	26927

No extra depth added.

June - Dredge to dig 100,000 Cu. Yds.

△ N°	Part of All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
199	P	10175	865	4782	1099
200	P	4000	192	2076	372
198	P	29250	2165	15180	1531
197	All	17850	1321	8140	1196
193	P	1500	111	684	173
196	P	37175	3160	16506	8848
195	P	28200	8347	12859	6486
199	P	4650	395	2186	502
216	P	8525	1483	3470	2037
217	P	18000	3132	7992	6390
Total		159325	21171	73875	38624
				+	19751 Premium
				=	58375

No extra depth added.

May - 60000 Cu.Yds

Estimated Total Cu.Yds. Muck	= 12933
" " " D.S.	= 43307
" " " M.+O.S.	= 56240
+ S Cu.Yds. per lin. Ft. along cut	= 2875
Estimated Total Cu.Yds	= 59115

Recovery @ 20% = 15933
Premium @ 35% = 10994

= # 26927

Avg. Depth Muck = $\frac{12933 \times 27}{100126}$ = 3.5 Ft.

" " O.S. = $\frac{43307 \times 27}{100126}$ = 11.7 "

" Total Depth = $\frac{56240 \times 27}{100126}$ = 15.2 "

per Total Cu.Yd = $\frac{26927.00}{59115}$ = 45.6

per Sq. Ft. = $\frac{26927.00}{100126}$ = 26.9

June - 100000 Cu.Yds.

Estimated Total Cu.Yds. Muck	= 21171
" " " O.S.	= 73875
" " " M.+O.S.	= 95046
+ S Cu.Yds. per lin. Ft. along cut	= 4275
Estimated Total Cu.Yds.	= 99321

Recovery @ 20% = 25614
Premium @ 35% = 19751

= # 48375

Avg. Depth Muck = $\frac{21171 \times 27}{159375}$ = 3.6 Ft.

" " O.S. = $\frac{73875 \times 27}{159375}$ = 12.5 "

" Total Depth = $\frac{95046 \times 27}{159375}$ = 16.1 "

per Total Cu.Yd = $\frac{48375.00}{99321}$ = 48.7

per Sq. Ft. = $\frac{48375.00}{159375}$ = 30.4

Dredge No 7 - 1949

July - Dredge to dig 100000 Cu.Yds.

△ No	Part of Fill	Area Sq.Ft.	Muck Cu.Yds	D.S Cu.Yds.	Value $	
195	P	7200	2131	3283	1656	
196	P	3150	268	1399	750	
217	P	22500	3911	9990	7987	
218	P	5775	2714	2997	1143	No extra depth added.
219	P	10725	4086	5437	2188	
220	P	36085	8010	16022	12738	
221	P	17460	3230	7962	5657	
222	P	17460	3422	6914	5570	
223	P	19080	2614	7765	3301	
224	P	10500	1670	3612	315	
Totals		149935	32060	65381	41305	
				+	28500	Premium
				=	69805	

August - Dredge to dig 80000 Cu.Yds.

△ No	Part of Fill	Area Sq.Ft.	Muck Cu.Yds	D.S Cu.Yds.	Value $	
224	P	5760	916	1981	173	
225	P	43200	7722	18706	1382	
226	P	19530	2676	7441	664	
226A	P	25350	6566	10317	989	
226B	P	4475	1705	1490	161	No extra depth added.
227B	P	2900	858	1215	113	
227A	P	250	56	90	19	
227	P	250	21	108	25	
228	P	9500	2247	4465	1742	
229	P	450	33	183	55	
224	P	4350	691	1496	131	
223	P	17735	4430	7219	3069	
230	P	6173	1525	2673	1488	
Totals		139923	19442	57384	8811	
				+	6080	Premium
				=	14891	

July - 100,000 Cu. Yds.

Estimated Total Cu. Yds. Muck	= 3,060
" " " .05	= 6,381
" " " M+D5.	= 9,441
+ 5 Cu. Yds. per lin. Ft. along cut	= 3,285
Estimated Total Cu. Yds.	= 100,726

Recovery @ 20% = 4130 cy
Premium @ 35¢ = 2800
= $6980

Avg. Depth Muck = 3,060 × 27 / 14,935 = 5.8 Ft.
" " .05 = 6,381 × 27 / 14,935 = 11.8
" Total Depth = 9,441 × 27 / 14,935 = 17.6

¢ per total Cu. Yd. = 698,000 / 100,726 = 69.3
¢ per Sq. Ft. = 698,000 / 14,935 = 46.6

August - 80000 Cu. Yds.

Estimated Total Cu. Yds. Muck	= 1,944.6
" " " .05	= 7,384
" " " M+D5.	= 76,830
+ 5 Cu. Yds. per lin. Ft. along cut	= 3,100
Estimated Total Cu. Yds.	= 79,930

Recovery @ 20% = 8811
Premium @ 35¢ = 6080
= $14,891

Avg. Depth Muck = 1,944.6 × 27 / 13,993 = 3.8 Ft.
" " .05 = 7,384 × 27 / 13,993 = 11.1
" Total Depth = 76,830 × 27 / 13,993 = 14.9

¢ per Total Cu. Yd = 1,489,100 / 79,930 = 18.6
¢ per Sq. Ft. = 1,489,100 / 13,993 = 10.6

Dredge N° 7 - 1949

September - Dredge to dig 80000 Cu.Yds.

△ N°	Port Fill	Area Sq.Ft.	Muck Cu.Yds.	D.S. Cu.Yds.	Value $	
223	P	7350	1006	2991	1271	
230	P	2475	210	1072	596	
222	P	4500	882	1782	1436	
231	P	500	61	203	118	No extra depth added.
221	P	24750	4578	11286	8019	
220	P	4500	999	1998	1589	
219	P	8275	1077	14335	5768	
233	P	9600	3802	4157	2559	
232	P	8625	4551	12709	5038	
Totals.		110575	26861	50533	24094	
				+	1662	Premium
				=	40719	

October - Dredge to dig 80000 Cu.Yds.

△ N°	Port Fill	Area Sq.Ft.	Muck Cu.Yds.	D.S. Cu.Yds.	Value $	
232	P	6475	1030	2875	1140	
231	P	10425	1272	4243	2460	
230	P	23940	2035	10366	5770	1 Foot extra depth has been added.
229	P	11050	818	4497	1348	
228	P	6455	688	12434	1508	
227	P	18650	1585	8075	1865	
227A	P	1612	3580	5789	1209	
227B	P	2025	599	848	79	
226	P	12240	318	5752	698	
229	P	8820	652	3590	1076	
Totals		136205	12577	58469	17153	
				+	11836	Premium
				=	28989	

September - 80000 Cu.Yds

Estimated Total Cu.Yds. Muck	= 26861
" " " OS.	= 5533
" " " M+OS.	= 77394
+ 5 Cu.Yds. per lin Ft. along cut	= 2100
Estimated Total Cu.Yds.	= 79494
Recovery @ 20%	= 24094
Premium @ 35¢	= 16625
	$ = 40719

Avg. Depth Muck = $\frac{26861 \times 27}{110 \times 75}$ = 6.6 Ft.

" " OS. = $\frac{5533 \times 27}{110 \times 75}$ = 12.3 ✓

" Total Depth = $\frac{77394 \times 27}{110 \times 75}$ = 18.9 ✓

¢ per Total cu Yd = $\frac{4071900}{79494}$ = 51.2

¢ per Sq. Ft. = $\frac{4071900}{110 \times 75}$ = 36.8

October - 80000 Cu.Yds

Estimated Total Cu.Yds. Muck	= 12577
" " " OS.	= 58469
+ 1' extra depth "	= 5044
	= 63513
Estimated Total Cu.Yds. M+OS	= 76090
+ 5 Cu.Yds. per lin Ft. along cut	= 3150
Estimated Total Cu.Yds.	= 79240
Recovery @ 20%	= 17153
Premium @ 35¢	= 11836
	$ = 28989

Avg. Depth Muck = $\frac{12577 \times 27}{136 \times 75}$ = 3.3 Ft.

" " OS = $\frac{63513 \times 27}{136 \times 75}$ = 12.6 ✓

" Total Depth = $\frac{76090 \times 27}{136 \times 75}$ = 15.1 ✓

¢ per Total Cu.Yd = $\frac{2898900}{79240}$ = 36.6

¢ per Sq. Ft. = $\frac{2898900}{136 \times 75}$ = 21.3

Dredge No. 7 Recapitulation - Season 1949

Starts May 1st. - Shuts down November 1st. - 184 days

To dig 500 000 Cu. Yds.

Month	Days Run	Area Sq. Ft.	Depth Feet	Total Cu. Yds.	Royalty @ 2½¢	Premium @ 3½¢	Gross $	¢ per Cu. Yd.	¢ per Sq. Ft.	Extra Depth Ft.
May	31	100126	15.2	59115	15933	10994	26927	45.6	26.9	—
June	30	159325	16.1	99321	28624	19751	48375	48.7	30.4	—
July	31	149934	17.6	100726	41305	28500	69805	69.3	46.6	—
Aug.	31	139923	14.9	79930	8811	6080	14891	18.6	10.6	—
Sept.	30	110575	18.9	79494	24094	16625	40719	51.2	36.8	—
Oct.	31	136205	15.1	79240	17153	11836	28989	36.6	21.3	1.0
Totals	184	796089	16.9	497826	135920	93786	229706	46.1	28.9	

Estimated Thawing Write-off = 495 190 Cu. Yds.
Stripping - = 204702 ✓
No Royalties payable.

Dredge No 6 - 1949

May - Dredge to dig 100000 cu yds.

△ No	Part All	Area Sq. Ft.	Muck cu. yds.	D.S. cu. yds.	Value $	
219	P	5250	1029	1943	630	
218	P	55388	12796	17004	3877	2.6 extra depth has been added
217	P	91313	22646	26025	7670	
234	P	7050	860	2792	620	
Totals		159001	36831	47764	12797	
				+	8830	Prem
					21627	

June - Dredge to dig 140000 cu yds.

△ No	Part All	Area Sq. Ft.	Muck cu yds	D.S. cu yds	Value $	
234	P	25875	3157	10247	2777	
233	P	34650	4747	16667	3604	
232	P	32175	3218	19916	4665	No extra depth added
231	P	30600	3733	20410	3641	
230	P	30375	4496	20260	2552	
229	P	37785	7407	25203	5479	
Totals		191460	26758	112703	22718	
					15330	Prem.
					37548	

May — 100000 cu. Yds.

Estimated Total cu Yds Muck = 36831
" " " " D.S. = 47764
+ 2.6 Ft. extra depth = 15311
Estimated Total Cu Yds Muck + D.S. = 99906

Recovery @ 20[67] = 12797
Premium @ 35[00] = 8830
= $21627

Avg depth Muck $\frac{36831 \times 27}{159001}$ = 6.3 Ft.
" " D.S. $\frac{63075 \times 27}{159001}$ = 10.7
" Total depth $\frac{99906 \times 27}{159001}$ = 17.0

¢ per Total cu. Yd $\frac{21627700}{99906}$ = 21.6
¢ per Sq. Ft. $\frac{21627700}{159001}$ = 13.6

June - 140000 cu Yds.

Estimated Total cu. Yds. Muck = 26758
" " " " D.S. = 112703
Cu. Yds. per lin. Ft. along cut = —
Estimated Total cu Yds. M + D.S. = 139461

Recovery @ 20[67] = 22718
Premium @ 35[00] = 15330
= $37548

Avg depth Muck $\frac{26758 \times 27}{191460}$ = 3.8 Ft.
" " D.S. $\frac{112703 \times 27}{191460}$ = 15.9
" Total depth $\frac{139461 \times 27}{191460}$ = 19.7

¢ per Total cu Yd. $\frac{3754800}{139461}$ = 26.9
¢ per Total Sq. Ft. $\frac{3754800}{191460}$ = 19.6

Dredge No. 6 - 1949

July - Dredge to dig 150000 cu. Yds.

△ No.	Part or All	Area Sq. Ft.	Muck cu. Yds.	D.S. cu. Yds.	Value $	
279	P	3840	752	2561	557	
278	P	30375	5285	19926	10667	
276	P	2700	400	1501	581	
277	P	59090	9395	37877	20031	No extra depth added.
275	P	20370	4746	13587	2954	
228	P	4200	731	2755	1474	
229	P	28680	5621	19130	4159	
274	P	24400	6051	16909	3708	
Totals		173655	32981	114246	44176	
					30447	Pram.
					74573	

August - Dredge to dig 150000 cu. Yds.

△ No.	Part or All	Area Sq. Ft.	Muck cu. Yds.	D.S. cu. Yds.	Value $	
279	P	7250	1421	4836	1051	
224	P	6000	1488	4158	912	
231	P	28175	3431	18759	3347	
222	P	23500	7609	15933	6698	
232	P	4775	473	2925	685	No extra depth added
221	P.	3000	144	1923	1068	
233	P	33800	4631	16758	3515	
234	P	5575	674	2188	486	
220	P	25650	2565	17645	3827	
230	P	4688	694	3127	394	
273	P	3000	555	2112	768	
220	P	39150	3915	19300	5823	
219	P	1675	318	601	195	
271	P	14400	691	9230	5126	
Totals		200438	33609	113995	33900	
					23391	Pram
					57291	

July - 150000 cu yds.

Estimated Total Cu.yds. Muck	= 32981
" " " " D.S.	= 114246
" " " " M+D.S.	= 147227
+10 cu yds. per lin Ft along cut	= 2900
Estimated Total Cu Yds	= 150127

Recovery @ 20¢	= 44126	
Premium @ 35¢	= 30447	
		= $74573

Avg depth Muck $\frac{32981 \times 27}{173655} = 5.1$ Ft.

" " D.S. $\frac{114246 \times 27}{173655} = 17.8$ ✓

" Total depth $\frac{147227 \times 27}{173655} = 22.9$ ✓

¢ per Total cu yd. $\frac{7457300}{150127} = 49.7$

¢ per Sq. Ft. $\frac{7457300}{173655} = 42.9$

August - 150000 cu yds.

Estimated Total cu.yds. Muck	= 23609
" " " " D.S.	= 113995
" " " " M+D.S.	= 137604
+10 Cu.yds per lin Ft along cut	= 12500
Estimated Total Cu Yds	= 150104

Recovery @ 20¢	= 33900	
Premium @ 35¢	= 23391	
		= $57291

Avg depth Muck $\frac{23609 \times 27}{200438} = 3.2$ Ft

" " D.S. $\frac{113995 \times 27}{200438} = 15.4$ ✓

" Total depth $\frac{137604 \times 27}{200438} = 18.6$ ✓

¢ per Total cu Yds $\frac{5729100}{150104} = 38.2$

¢ per Sq. Ft. $\frac{5729100}{200438} = 28.6$

Dredge No: 6 - 1949

September - Dredge to dig 150000 cu. Yds.

△ No:	Part All	Area Sq. Ft.	Muck cu. Yds.	D.S. cu. Yds.	Value $	
221	P	14175	680	9086	5046	
222	P	34425	3871	23340	9811	
223	P	28125	5303	19800	7200	
224	P	53925	13373	37370	8197	No extra depth added
225	P	28475	6635	18993	4179	
223	P	5568	1030	3920	1425	
Totals		164693	30742	117509	35808	
					24708	Prem
					60516	

October - Dredge to dig 140 000 cu Yds.

△ No	Part All	Area Sq. Ft.	Muck cu Yds.	D.S. Cu Yds.	Value $	
223	P	39033	7221	27479	9992	
211	P	10800	1717	7884	2765	
222	P	8550	949	5797	2437	
212	P	630	30	513	168	
221	P	45325	2176	29053	16136	No extra depth added.
220	P	9720	977	4792	1448	
219	P	2980	584	1103	358	
214	P	1125	54	834	156	
213	P	47844	527	35998	16172	
Totals		166007	14230	113433	49632	
					34246	Prem.
					83878	

September - 150000 cu yds.

Estimated Total cu yds. Muck. = 30747
" " " D.S. = 112509
" " " M+D.S. = 143251
10 cu yds per lin Ft along cut = 7350
Estimated Total cu yds = 150601

Recovery @ 20^{67} = 35808
Premium @ 35^{00} = 24708
= $60516.

Avg depth Muck $\frac{30747 \times 27}{164693}$ = 5.0 Ft.
" " D.S. $\frac{112509 \times 27}{164693}$ = 18.4 ✓
" Total depth. $\frac{143251 \times 27}{164693}$ = 23.4

¢ per Total cu yd. $\frac{6051600}{150601}$ = 40.2
¢ per Sq. Ft. $\frac{6051600}{164693}$ = 36.7

October - 140000 Cu. Yds.

Estimated Total cu yds Muck. = 14230
" " " D.S. = 113433
" " " M+D.S. = 127663
10 cu yds per lin Ft along cut = 11300
Estimated Total cu yds = 138963

Recovery @ 20^{67} = 49632
Premium @ 35^{00} = 34246
= $83878

Avg depth Muck $\frac{14230 \times 27}{166007}$ = 2.3 Ft.
" " D.S. $\frac{113433 \times 27}{166007}$ = 18.4 ✓
" Total depth. $\frac{127663 \times 27}{166007}$ = 20.7

¢ per Total cu yd $\frac{8387800}{138963}$ = 60.4
¢ per Sq. Ft $\frac{8387800}{166007}$ = 50.5

Dredge No 6 - 1949.

November - Dredge to dig 20000 cu. Yds.

△ No	Part or All	Area Sq. Ft.	Muck Cu Yds.	D.S. Cu Yds.	Value #	
213	P	10800	119	8172	3650	
217	P	12375	594	10086	3292	No extra depth added.
		23175	713	18308	6942	
					4790	Prem.
					11732	

Dredge No 6 - Recapitulation - Season 1949.

Starts May 1st - Shuts down November 5th - 189 days.

To dig 850 000 cu yds.

Month	Days Run	Area Sq. Ft	Depth Feet	Total Cu Yds	Recovery @ 20.67	Premium @ 35.00	Gross #	¢ per Cu Yd.	¢ per Sq. Ft.	Extra Depth Ft.
May	31	159001	17.0	99906	17797	8830	21627	21.6	13.6	2.6
June	30	191460	19.7	139461	22718	15330	37548	26.9	19.6	-
July	31	173655	22.9	150127	44176	30447	74573	49.7	42.9	-
Aug	31	200438	18.6	150104	33900	23391	57291	38.2	28.6	-
Sept	30	164693	23.4	150601	35808	24708	60516	40.2	36.7	-
Oct	31	166007	20.7	138963	49632	34746	83878	60.4	50.5	-
Nov	5	23175	22.0	19921	6942	4790	11732	58.9	50.6	-
Totals	189	1078429	20.6	849083	205473	141742	347165	40.9	32.2	

Estimated Thawing Write off = 736523 Cu. Yds.
" Stripping " = 589781 " "
No Royalties payable.

November - 20000 cu. Yds.

Estimated Total cu. Yds Muck = 713
" " " " D.S. = 18208
" " " " M+DS = 18921
10 cu. yds per lin Ft along cut = 1000
Estimated Total cu. yds = 19921

Recovery @ 20^{67} = 6942
Premium @ 35^{00} = 4790
= 11732

Avg depth Muck $\frac{713 \times 27}{23175} = 0.8$ Ft

" " D.S $\frac{18208 \times 27}{23175} = 21.7$ ✓

" Total depth $\frac{18921 \times 27}{23175} = 22.0$ ✓

$ per total cu. yd $\frac{1173700}{19921} = 58.9$

$ per Sq. Ft. $\frac{1173700}{23175} = 50.6$

Dredge № 8 - 1949

May - Dredge to dig 60000 cu Yds.

△ №	Part or All	Area Sq. Ft.	Muck cu. Yds	D.S. cu Yds.	Value $	
S12	P	19250	2637	13052	5044	
S13	P	28596	3918	17272	7206	1.4' extra depth has been added.
S14	P	26846	2287	15222	6900	
Totals		74692	8837	45546	19150	
					13214	Prem.
					32364	

June - Dredge to dig 130000 cu Yds.

△ №	Part or All	Area Sq. Ft	Muck cu. Yds.	D.S. cu. Yds.	Value $	
S14	P	10450	888	5925	2686	
S13	P	42170	5777	25471	10677	
S15	P	4250	361	2520	475	2.0' extra depth has been added
S08	P	56450	8355	34943	6153	
S09	P	900	190	677	107	
S07	P	26550	2257	14443	4991	
S06	P	23175	1711	12858	4024	
Totals		163895	19539	96837	29008	
					20016	Prem.
					49024	

May - 60000 Cu. Yds

Estimated Total Cu Yds. Muck		= 8837
" " " " D.S.	= 44546	
+ 1.4 Ft extra depth	= 3874	= 49420
Estimated Total Cu Yds M+D.S.		= 58257
+ 5 cu yds per lin Ft along cut		= 1600
Estimated Total Cu. Yds.		= 59857

Recovery @ 20%	= 19150	
Premium @ 35%	= 13214	
		# = 32364

Avg depth Muck $\frac{8837 \times 27}{74692} = 3.2$ Ft.

" " D.S. $\frac{49420 \times 27}{74692} = 17.9$ ✓

" Total depth $\frac{58257 \times 27}{74692} = 21.1$ ✓

¢ per total cu yd $\frac{3236400}{59857} = 54.1$

¢ per Sq. Ft. $\frac{3236400}{74692} = 43.3$

June - 130000 Cu. Yds.

Estimated Total Cu. Yds. Muck		= 19539
" " " " D.S.	= 96837	
+ 2.0 Ft. extra depth	= 12140	= 108977
Estimated Total Cu. Yds. M+D.S		= 128516
+ 5 cu yds per lin Ft along cut		= 1150
Estimated Total Cu. Yds.		= 129666

Recovery @ 20%	= 29008	
Premium @ 35%	= 20016	
		# = 49024

Avg depth Muck $\frac{19539 \times 27}{163895} = 3.2$ Ft.

" " D.S. $\frac{108977 \times 27}{163895} = 18.0$ ✓

" Total depth $\frac{128516 \times 27}{163895} = 21.2$ ✓

¢ Per total cu yd $\frac{4907600}{129666} = 37.8$

¢ per Sq. Ft. $\frac{4907600}{163895} = 29.9$

Dredge No 8 - 1949

July - Dredge to dig 150000 Cu Yds.

△ No	Part or All	Area Sq. Ft	Muck Cu Yds	D.S. Cu. Yds.	Value $
506	P	19158	1 418	10,652	3333
505	P	24,240	2424	12 581	6666
504	P	39060	7226	20,272	6756
503	P	51 804	14764	25 539	7615
504	P	12180	2253	6321	2107
505	P	24000	2 400	12,456	6600
506	P	11,760	870	6539	2046
507	P	5000	425	2720	940
Totals		187 202	31780	97080	36063
					24 883 Prem
					60946

2 4 Ft extra depth has been added.

August - Dredge to dig 150 000 Cu. Yds

△ No	Part or All	Area Sq. Ft.	Muck Cu Yds	D.S. cu Yds.	Value $
507		42,400	3604	23 066	7971
508		11, 440	1693	7081	1747
509		9,000	1899	6768	1017
495		10,000	1960	7300	1870
496		11,330	1552	7013	3376
497		48,000	4080	27,216	14784
498		11,648	559	6976	5428
499		44, 180	3269	21780	19 704
500		600	82	251	215
Totals		188,598	18,698	106, 951	55562
					38 338 Prem.
					93,900

3 0 Ft extra depths has been added.

July - 150000 Cu. Yds.

Estimated total Cu. Yds. Muck 31,780
" " " " D.S. 97,080
Add 2.4 Extra depth 16,640 113,720
Estimated total Cu. Yds M & D.S. 145,500
Add 5 Cu. Yds. per lineal foot along cut 4025
Estimated total Cu. Yds. 149,525

Recovery @ 20 67 36,063
Prem @ 35 00 24,883
60,946 # 60,946

Average depth of Muck $\frac{31,780 \times 27}{187,202} = 4.6$

¢ per total cu. yds $\frac{60,946}{149,525} = 40.8$

" " " D.S $\frac{113,720 \times 27}{187,202} = 16.4$

" Total Depth $\frac{145,500 \times 27}{187,202}$ 21.0

¢ per total sq ft. $\frac{60,946}{187,202} = 32^{5}$

August - 150000 Cu. Yds.

Estimated Total Cu. Yds Muck 18,698
" " " D.S. 106,951
Add 3 Ft Extra depth 20955 127,906
Estimated total Cu. Yds M & D.S. 146,604
Add 5 Cu Yds per lineal ft along cut. 3,650
Estimated total Cu Yds. 150,254

Recovery @ 20 67 55,562
Prem @ 35 00 38,338 # 93,900

Average depth of Muck $\frac{18,698 \times 27}{188,598} = 2^{7}$

¢ per total Cu Yd. $\frac{93,900}{150,254} = 62^{5}$

" " " D.S. $\frac{127,906 \times 27}{188,598} = 18^{3}$

" total Depth $\frac{146,604 \times 27}{188,598} = 21^{0}$

¢ per total sq ft $\frac{93,900}{188,598} = 49^{8}$

Dredge № 8 - 1949

September - Dredge to dig 150 000 cu. Yds.

△ №	Part or All	Area Sq. Ft.	Muck cu. Yds.	D.S. cu. Yds.	Value #	
499		2700	200	1331	1204	
500		11,648	1596	4881	4182	
501		67,896	17585	28448	10999	
502		13,068	4979	5319	549	4½ Ft extra depth has been added
500		36,000	4932	15084	12924	
499		24 200	1791	11,931	10793	
498		30,800	1478	17,125	14 353	
Total		186,312	32 561	84,119	55 004	
					37953	Prem
					92,957	

October - Dredge to dig 140 000 cu Yds.

△ №	Part or All	Area Sq. Ft.	Muck Cu Yds.	D.S. Cu Yds.	Value #	
498		5400	259	3002	2516	
497		23600	2006	13,381	7269	
496		41572	5697	25,733	12,388	
495		1815	356	1,325	330	
491		26670	4641	14,829	8134	
497		2744	233	1,556	845	2½ Ft extra depth has been added
490		3300	525	1627	723	
498		26190	1257	14,562	12,205	
489		28392	7413	15 445	10 505	
499		2800	207	1380	1,249	
488		3132	348	1428	745	
500		4656	638	1951	1672	
487		4888	670	1936	1217	
Total		175 159	19 250	98 155	59 798	
					41, 261	Prem.
					101, 059	

September - 150 000 Cu Yds

Estimated total Cu Yds Muck		32,561
" " " " D.S.	84,119	
Add 4.1 FT extra depth	28,292	112,411
Estimated total Cu Yds M & D.S.		144,972
Add 5 Yds per lineal FT along cut		3,400
Estimated total Cu Yds		148,372

Recovery @ 20 67	55,004	
Prem @ 35 02	37,953	$ 92,957

Average depth of Muck $\frac{32,561 \times 27}{186,312} = 4.7$

" " " D.S. $\frac{112,411 \times 27}{186,312} = 16.3$

" total Depth $\frac{144,972 \times 27}{186,312} = 21^{0}$

¢ per total cu yds $\frac{92,957}{148,372} = 62^{7}$

¢ per total sq ft $\frac{92,957}{186,312} = 49^{2}$

October - 140 000 Cu. Yds.

Estimated total Cu Yds Muck		19,250
" " " " D.S	98,155	
Add 2 0 Ft extra. depth	18,813	116,968
Estimated total Cu Yds M & D.S.		136,218
Add 5 yds per lineal FT along cut		3,790
Estimated total Cu Yds		140,008

Recovery @ 20 67	59,798	
Prem @ 35 02	41,261	$ 101,059

Average depth of Muck $\frac{19,250 \times 27}{175,159} = 3^{0}$

" " " D.S $\frac{116,968 \times 27}{175,159} = 18^{0}$

" total Depth $\frac{136,212 \times 27}{175,159} = 21^{0}$

¢ per total Cu Yds $\frac{101,059}{140,008} = 72^{2}$

¢ per total sq ft $\frac{101,059}{175,159} = 57^{7}$

Dredge No 8 - 1949

November - Dredge to dig 20000 cu. Yds.

△ No	Part of All	Area Sq. Ft.	Muck cu. Yds.	D.S. Cu. Yds.	Value $
500		11,640	1595	4877	4179
487		12,360	1693	4895	3078
Totals		24,000	3288	9772	7257
					5007
					12264

6 ⅔ Ft. extra depth has been added

Prem

Dredge No 8 - Recapitulation - Season 1949

Starts May 1st - Shuts down November 5th - 189 days.

To dig - 800000 cu. Yds.

Month	Days Run	Area Sq. Ft.	Depth Feet	Total cu Yds.	Recovery @ 20.67	Premium @ 35.00	Gross $	¢ per cu yd	¢ Per Sq Ft	Extra Depth Ft.
May	31	214692	21.1	198857	19150	13214	32364	54.1	43.3	1.4
June	30	163895	21.2	129666	29008	20016	49024	37.8	29.9	2.0
July	31	187,202	21.0	149525	36063	24883	60946	40.8	32.6	2.4
Aug	31	188,598	21.0	150,254	55,562	38,338	93900	62.5	49.8	3.0
Sept	30	186,312	21.0	148,372	55,004	37,953	92957	62.7	49.9	4.1
Oct	31	175,159	21.0	140,008	59,798	41,261	101 059	72.2	57.7	2.9
Nov	5	24,000	21.0	19260	7,257	5007	12,264	63.7	51.1	6.3
Totals	189	999 858	21.04	796 942	261, 842	180, 672	442, 514	56.3	44.9	~~3.2~~ 2.9

Estimated Horse write off 897 145 Cu. Yds.

" Stripping " 579 925 Cu Yds.

- Royal Ties Payable - Claim 61 - $ 1832.00

- " 61A - $ 7711.00

$ 9543.00

November - 20000 Cu. Yds.

Estimated total Cu. Yds Muck			3288
" " " D.S.	9772		
Add 6.3 Ft. extra depth	5600		15372
Estimated total Cu Yds M & D.S.			18,660
Add 5 yds per lineal ft along cut			600
Estimated total Cu. Yds.			19.260
Recovery @ 20^{67}	7257		
Prem @ 35^{00}	5007		12264

Average depth of Muck $\frac{3288 \times 27}{24,000} = 3'$

" " " D.S. $\frac{15372 \times 27}{24,000} = 17'3$

" total Depth $\frac{18660 \times 27}{24,000} = 21'0$

per Cu Yd Total $\frac{12264}{19260} = 63'$

per total Sq ft $\frac{12264}{24,000} = 51'$

Dredge Nº 9 - 1949

May - Dredge to dig 70,000 Cu Yds

△ Nº	Part of All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu Yds.	Value $	
809A		1400	481	295	10	
811		3000	1857	855	1575	
822A		1275	438	363	9	+1.9 Ft extra depth = 4130
822		5841	2813	1880	549	
820		42900	15401	14185	28571	
821		32790	12458	10889	8338	
Totals		87,116	32948	28567	39052	
					26946	Prem
					65998	

June - Dredge to dig 80,000 Cu Yds

△ Nº	Part of All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu Yds.	Value $	
822		9600	3802	3091	902	
821		9280	3535	3090	2366	
824		34630	10250	13713	5714	+2.0' extra depth = 7646
825		23960	7715	8601	4720	
826		13225	4258	4748	3795	
823		12524	2780	6500	1052	
Totals		103219	32340	39743	18549	
				+	12799	Prem.
					31348	

May — 70 000 Cu Yds

Estimated total Cu. Yds Muck		32,948
" " " " D.S.	28,567	
Add 1½ Ft extra depth	6130	34,697
Estimated total Cu Yds M & D.S		67,645
Add 5 Cu Yds per lineal Ft along cut		2300
Estimated total Cu Yds		69945

Recovery @ 20.67 — 39 052
Prem @ 35.09 — 26 946

$65 998

Average depth of Muck $\frac{32948 \times 27}{87,116} = 10.2$

" " " D.S. $\frac{34,697 \times 27}{87,116} = 10.8$

" total Depth $\frac{67,645 \times 27}{87,116} = 21'$

¢ per Cu Yd Total $\frac{65998}{69945} = 94^{4}$

¢ per total Sq ft $\frac{65998}{87,116} = 75^{8}$

June — 80,000 Cu Yds

Estimated total Cu. Yds Muck		32,340
" " " " D.S.	39,743	
Add 2' Ft extra depth	7,646	47,389
Estimated Total Cu. Yds M+DS		= 79729

Recovery @ 20.47 = 18,749
+ Prem @ 35.11 = 12,599

$ = 31,348

Avg. Depth Muck = $\frac{32340 \times 27}{103,219} = 8.5$ Ft.

" " D.S = $\frac{47389 \times 27}{103,219} = 12.4'$

" Total Depth = $\frac{79729 \times 27}{103,219} = 20.9'$

¢ per Total Cu. Yd = $\frac{3134800}{79729} = 39.3$

¢ per Sq. Ft. = $\frac{3134800}{103,219} = 30.4$

Dredge № 9 - 1949

July - Dredge to dig 80000

△ №	Part Àll	Area Sq. Ft.	Muck cu. Yds.	D.S. cu. Yds.	Value $	
8-3	P	4623	1026	2400	388	
8-4	P	780	230	309	129	
837	P	1925	377	999	192	
836	P	450	67	150	54	
8-5	P	2035	6545	7297	4004	+ 5.4' Extra depth = 20016
835	P	11550	2264	3419	1582	
834	P	1120	290	207	73	
833	P	7015	1298	1740	463	
8-6	P	19740	6316	7087	5665	
8-7	P	2955	3602	10599	6732	
8-8	P	3026	526	1153	777	
		100081	22581	35360	20059	
				+	13841	Prem
				=	33900	

August - Dredge to dig 90000 Cu. Yds

△ №	Part Àll	Area Sq. Ft	Muck Cu Yds.	D.S. cu Yds	Value $	
8-6	P	7345	2365	2636	2108	
8-7	P	3375	412	1211	770	
8-8	P	14450	5514	5505	3714	+ 1.5 Ft. Extra Depth = 5846
821	P	3600	1371	1199	918	
820	P	6000	2154	1998	3996	
819	P	4833	1663	18411	35084	
818	P	15375	7011	6657	8932	
817	P	6750	3317	2673	500	
		10520	35777	40290	56022	
				+	38655	Prem
					94677	

July - 80000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 22581
- - 0.5 = 3536
+ 1.4' Extra depth = 2016
Estimated Total Cu. Yds. Muck = 77957
+ 2400 Cu. Yds along cut = 2400
Estimated Total Cu. Yds. = 80357

Recovery @ 20% = 20059
+ Prem. @ 35% = 13841
= 33900

Avg. Depth Muck = $\frac{22581 \times 27}{100081}$ = 6.1 Ft.
- - 0.5 = $\frac{5536 \times 27}{100081}$ = 14.9'
- Total Depth = $\frac{77957 \times 27}{100081}$ = 21.0'

per total Cu Yd = $\frac{3390000}{80357}$ = 42.2
per Sq. Ft. = $\frac{3390000}{100081}$ = 33.9

August - 90000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 35777
- - 0.5 = 40290
+ 1.5 Ft. Extra depth = 5846
= 46136
81913
+ 7500 Cu. Yds along cut = 7500
Estimated Total Cu. Yds = 89413

Recovery @ 20% = 16022
+ Prem @ 35% = 38655
= 94677

Avg. Depth Muck = $\frac{35777 \times 27}{105220}$ = 9.2 Ft.
- - 0.5 = $\frac{46136 \times 27}{105220}$ = 11.8'
- Total Depth = $\frac{81913 \times 27}{105220}$ = 21.0'

per total Cu Yd = $\frac{9467700}{89413}$ = 105.9
per Sq. Ft. = $\frac{9467700}{105220}$ = 90.0

Dredge No 9- 1949

September - Dredge to dig 90000 Cu Yds

△ No	Part or All	Area Sq. Ft.	Muck Cu Yds.	D.S. Cu Yds.	Value $	
817	P	2500	1143	999	1865	
818	P	500	239	225	3021	
819	P	8085	2781	3080	5870	
828	P	3275	568	1311	8372	+ 2.8 Ft extra depth = 11272
829	P	2800	473	962	2606	
830	P	11000	4356	3542	7246	
829	P	840	102	301	191	
		108700	34474	40879	26851	
				+	15629	From
					38280	

October - Dredge to dig 80000

△ No	Part or All	Area Sq. Ft.	Muck Cu Yds.	D.S. Cu Yds.	Value $	
827	P	7975	972	2863	1818	
828	P	3520	612	1341	905	
829	P	9200	1702	3302	9249	+ 7.4 Ft. extra depth = 27082
831	P	15435	2685	6683	7725	
832	P	19400	4306	6673	8733	
833	P	34915	6459	8658	23041	
834	P	8370	2167	1548	5444	
		98815	18903	31068	81405	
				+	56240	From
					137645	

September - 90000 Cu. Yds

Estimated Total Cu.Yds. Muck = 32474
" " " D.S = 4087
+ 2.8 Ft. extra depth = 1172
Estimated Total Cu.Yds. M+DS = 5259
" " " = 84573
+ 1600 Cu.Yds. along cut = 1600
Estimated Total Cu. Yds = 90173

Recovery @ 70% = 2761
+ Premium @ 30% = 1569
= 38780

Avg. Depth Muck = $\frac{32474 \times 27}{108700}$ = 8.1 Ft.

" " DS = $\frac{1099 \times 27}{108700}$ = 12.9 "

" Total Depth = $\frac{84573 \times 27}{108700}$ = 21.0 "

dper Total Cu Yd. = $\frac{387800}{90173}$ = 42.5

dper Sq. Ft. = $\frac{38780}{108700}$ = 35.7

October - 80000 Cu. Yds.

Estimated Total Cu.Yds Muck = 18903
" " " DS = 31068
+ 7.4 Ft. extra depth = 2082
Estimated Total Cu.Yds. M+DS = 51150
" " " = 77053
+ 3100 Cu.Yds along cut = 3100
Estimated Total Cu.Yds = 80153

Recovery @ 70% = 8145
+ Premium @ 30% = 5620
= 13765

Avg. Depth Muck = $\frac{18903 \times 27}{98815}$ = 8.1 Ft.

" " DS = $\frac{51150 \times 27}{98815}$ = 12.9 "

" Total Depth = $\frac{77053 \times 27}{98815}$ = 21.1 "

dper Total Cu Yd = $\frac{137650}{80153}$ = 17.2

dper Sq. Ft. = $\frac{137650}{98815}$ = 13.9

Dredge № 9 - 1949

November - Dredge to dig 10000

△ №	Part or All	Area Sq. Ft.	Muck Cu Yds.	D.S. cu yds	Value #	
834	P	4000	1036	740	760	
835	P	8700	1607	2447	1173	+8.1 Extra depth = 3660
		12700	2643	3187	1383	
				+	954	From.
					2337	

Dredge № 9 - Recapitulation - Season 1949

Starts May 1st - Shuts down November 5th - 189 days.

To dig 500000 Cu Yds.

Month	Days Run	Area Sq Ft	Depth Feet	Total Cu Yds	Recovery @ 70%	Premium @ 35¢	Gross #	¢ per cu yd.	¢ Per Sq. Ft	Extra Depth Ft.
May	31	87116	21.0	69945	39052	16946	65998	94.4	75.8	1.9
June	30	103719	20.9	79779	48549	17799	31348	39.3	30.4	2.0
July	31	100081	21.0	80357	50059	13841	33900	42.2	33.9	5.4
Aug	31	105720	21.0	89413	56022	38651	94677	105.9	90.0	1.5
Sept	30	108700	21.0	90193	56451	15629	38280	42.5	35.2	2.8
Oct	31	98845	21.1	80143	51145	16270	13765	17.2	13.9	7.4
Nov	5	12700	20.9	10120	1383	954	2337	83.1	19.2	8.1
	189	614351	21.9	499890	162861	114444	380305	76.1	45.6	3.6

Estimated Stripping Yds to 4 = 57C353 Cu Yds.
- Thawing - = 45C294 -
No Royalty payable

November - 10000 Cu. Yds.

Estimated Total Cu Yds Muck = 2643
" " " DS = 3167
+ 8.1 Ft. extra depth = 360
Estimated Total Cu Yds 14705
+ 650 Cu. Yds along cut
Estimated Total Cu Yds

Recovery @ 20% = 1383
+ Premium @ 35% = 954

Avg Depth Muck = $\frac{2643 \times 27}{12200}$ = 5.8 Ft.
" " DS = $\frac{6827 \times 27}{12200}$ = 15.1 '
" Total Depth = $\frac{9470 \times 27}{12200}$ = 20.9 '

= 6827
= 9470
= 650
= 10120

= 2337

$ per Total Cu Yd = $\frac{233700}{10120}$ = 23.1

$ per Sq. Ft. = $\frac{233700}{12200}$ = 19.2

Dredge No 10 - 1949

May - Dredge to dig 80000 Cu. Yds.

△ No	Part or All	Area Sq Ft.	Muck Cu Yds.	D.S. Cu Yds	Value $	
198	P	7600	1041	1687	-	
197	P	20240	5242	6740	1437	
196	P	18760	5012	7073	1931	
195	P	31350	8934	10784	4597	Nothing added
194	P	2050	473	7009	2189	
193	P	3510	4332	13138	2841	
192	P	8410	530	3523	496	
		142752	29764	49954	13471	
				+	9295	From
					22766	

June - Dredge to dig 120 000 Cu. Yds.

△ No	Part or All	Area Sq Ft.	Muck Cu Yds.	D.S. Cu Yds	Value $	
193	P	8540	1062	3233	699	
194	P	441	98	147	46	
195	P	4968	1416	1709	732	
186	P	49800	11052	17878	3884	
185	P	49800	10288	16032	6872	Nothing added.
184	P	41750	12617	14362	7556	
183	P	20240	6517	5768	2894	
176	P	12200	2908	4380	1757	
177	P	4450	78	854	93	
178	P	3332	911	837	546	
		191744	47952	64503	28072	
				+	17300	From
					45372	

May - 80000 Cu.Yds.

Estimated Total Cu Yds Muck = 29764
" " " .25 = 49954
Estimated " " M+.25 = 79718

Recovery @ 20° = 13471
Premium @ 35° = 9291

= 22766

Avg Depth Muck = $\frac{29764 \times 27}{1452756} = 5.6$ Ft.

" " .25 = $\frac{49954 \times 27}{1452756} = 9.5$ ✓

Total Depth = $\frac{79718 \times 27}{1452756} = 15.1$ ✓

¢ per Total Cu Yd = $\frac{2276600}{79718} = 28.6$

¢ per Sq. Ft. = $\frac{2276600}{1452756} = 16.0$

June - 170000 Cu.Yds.

Estimated Total Cu.Yds. Muck = 119754
" " " .25 = 64503
" " " M+.25 = 116457
+ 3000 Cu.Yds along cut = 3000
119457

Recovery @ 20° = 25072
Premium @ 35° = 17300

42372

Avg Depth Muck = $\frac{119754 \times 27}{191764} = 7.3$ Ft.

" " .25 = $\frac{64503 \times 27}{191764} = 9.1$ ✓

Total Depth = $\frac{116457 \times 27}{191764} = 16.4$ ✓

¢ per Total Cu Yd = $\frac{4237200}{119457} = 35.5$

¢ per Sq. Ft. = $\frac{4237200}{191764} = 22.1$

Dredge No 10 - 1949

July - Dredge to dig - 140000 Cu. Yds.

△ No	Part or All	Area Sq. Ft	Muck cu. Yds.	D.S. cu Yds.	Value $	
176	P	35125	7797	12610	5058	
177	P	35550	6185	12229	7323	
178	P	27405	7399	6796	4440	
175	P	41700	6171	14970	3920	+ 2.2 Ft. extra depth = 1945.4
174	P	43000	7951	17228	2967	
172	P	20800	1539	5616	541	
173	P	35175	2990	9497	1582	
		238755	40036	74446	25831	
				+	17823	From.
					43654	

August - Dredge to dig 150000 Cu Yds

△ No	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu Yds.	Value $	
173	P	9625	818	2598	433	
174	P	5000	975	1480	345	
187	P	49800	7918	16583	2938	
188	P	49800	6822	16035	2290	+ 3.8 Ft. extra depth = 3720
189	P	48040	4083	12970	1873	
189A	P	43575	2091	12418	1002	
191	P	25080	2508	9936	1104	
190	P	4740	350	1753	185	
190A	P	26780	1775	8159	664	
192	P	2770	162	1076	151	
		264810	26952	83008	10985	
				+	7580	From
					18565	

July - 140000 Cu. Yds

Estimated Total Cu. Yds. Muck = 40036
" " " D5. = 74446
+ 2.7' Extra depth = 19452
Estimated Total Cu. Yds. M+D5 = 93900
+ 3770 Cu. Yds. along cut = 3770
Estimated Total Cu. Yds. = 139711

Recovery @ 70% = 97831
Premium @ 35¢ = 17823 = $36754

Avg. Depth Muck = $\frac{40036 \times 27}{38775} = 4.5$ Ft.

" " D5 = $\frac{93900 \times 27}{38775} = 10.6$'

Total Depth = $\frac{133936 \times 27}{38775} = 15.1$'

¢ per Total Cu Yd. = $\frac{436400}{139711} = 31.2$

¢ per Sq. Ft. = $\frac{436400}{38775} = 18.3$

August - 150000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 26952
" " " D5 = 83008
+ 3.8 Ft. extra depth = 37970
Estimated Total Cu. Yds. M+D5 = 120978
+ 3350 Cu. Yds. along cut = 26832
Estimated Total Cu. Yds. = 147330
= 3350
= 150580

Recovery @ 70% = 109850
Premium @ 35¢ = 7580 = $18563

Avg. Depth Muck = $\frac{26952 \times 27}{64810} = 11.2$ Ft.

" " D5 = $\frac{120278 \times 27}{64810} = 12.3$'

Total Depth = $\frac{147330 \times 27}{64810} = 15.0$'

¢ per Total Cu Yd. = $\frac{1856500}{150580} = 12.3$

¢ per Sq. Ft. = $\frac{1856500}{64810} = 7.0$

Dredge Nº 10 - 1949

September - Dredge to dig 150000 Cu.Yds.

△ Nº	Part or All	Area. Sq Ft.	Muck Cu.Yds.	D.S. cu.Yds.	Value $	
190A	P	2887	1386	8864	721	
190	P	45540	3370	16850	1776	
191	P	24150	2417	9563	1062	
192	P	38235	2408	16020	2355	
209	P	500	124	111	13	
208	P	9500	2376	3620	446	
207	P	500	105	203	38	
206	P	9500	1757	3980	807	+ 1.1 Ft. Extra depth = 10739
193	P	6125	747	2266	490	
194	P	28875	6410	9615	3003	
205	P	500	111	190	69	
204	P	9500	2004	3268	1301	
195	P	6125	1745	2107	894	
203	P	500	116	179	120	
196	P	27625	7458	10576	2873	
202	P	6250	1476	2381	1018	
197	P	18807	4871	6624	1335	
198	P	2775	1339	549	0	
		263582	39178	96573	16221	
				+	11192	Prem
					27413	

October - 140000 Cu.Yds.

△ Nº	Part or All	Area Sq Ft.	Muck Cu.Yds	D.S. Cu.Yds	Value $	
198	P	11000	1507	2442	0	
197	P	800	207	266	56	
196	P	1250	337	476	130	
200	P	25200	2871	6804	1839	
201	P	14280	4694	5555	2959	Nothing added.
202	P	34300	7991	13068	5590	
203	P	14400	3355	5170	3476	
204	P	31050	6551	10681	4253	
205	P	14400	3196	5486	1987	
206	P	31050	5744	13010	2639	
207	P	14175	2990	5769	1091	
208	P	30375	7533	11572	1427	
209	P	10125	2511	2247	263	
		327825	52487	82546	25690	
				+	17726	Prem
					43416	

September - 150000 Cu Yds.

Estimated Total Cu Yds Muck = 39178
" " " .05 = 96553
+ 1.1 Ft. extra depth = 10739
Estimated Total Cu Yds Muck = 107292
+ 3800 Cu Yds along cut = 146470
Estimated Total Cu Yds. = 3800
= 150270

Recovery @ 20% = 16521
Premium @ 3¢ = 1119
= $17413

Avg. Depth Muck = $\frac{39178 \times 27}{63580} = 4.0$ Ft.

" " .05 = $\frac{107292 \times 27}{63580} = 11.0$ Ft.

" Total Depth = $\frac{146470 \times 27}{63580} = 15.0$

¢ per Total Cu Yd = $\frac{2741300}{150270} = 18.2$

¢ per Sq. Ft. = $\frac{2741300}{63580} = 10.4$

October - 140000 Cu Yds.

Estimated Total Cu Yds Muck = 5487
" " " .05 = 82546
" " " Muck = 13.5033
+ 4000 Cu Yds along cut = 4000
= 139033

Recovery @ 20% = 15690
Premium @ 3¢ = 17756
= $43416

Avg. Depth Muck = $\frac{5487 \times 27}{32705} = 6.1$ Ft.

" " .05 = $\frac{82546 \times 27}{32705} = 9.6$

" Total Depth = $\frac{13.5033 \times 27}{32705} = 15.7$

¢ per Total Cu Yd = $\frac{4341600}{139033} = 31.2$

¢ per Sq. Ft. = $\frac{4341600}{32705} = 18.7$

Dredge No 10 - 1949

November - Dredge to dig 20000 Cu Yds

A No	Part or All	Area Sq Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $
208	P	10128	2511	3857	475
209	P	20028	4966	4444	720
207	P	5760	1213	2340	442
		35900	8690	10641	1437
				+ 992 Prem.	
				2429	

+1' Extra depth = 1329

Dredge No 10 - Recapitulation - Season - 1949

Starts May 1st - Shuts down November 5th - 189 days.

To dig 800000 Cu. Yds

Month	Days Run	Area Sq. Ft.	Depth Feet	Total Cu. Yds.	Recovery @ 20¢	Premium @ 35¢	Gross $	¢ Per Cu Yd	¢ Per Sq. Ft.	Extra Depth Ft.
May	31	142728	15.1	79718	13471	9298	22769	28.6	16.0	—
June	30	191764	16.4	114467	20072	17300	42372	37.0	22.1	—
July	31	238755	15.1	139711	24831	17823	43674	31.2	18.3	2.2
Aug	31	164810	15.0	150780	10985	7580	18565	12.3	7.0	3.8
Sept	30	263782	15.0	150270	16221	11192	27413	18.2	10.4	1.1
Oct	31	232705	15.7	139033	25690	17726	43416	31.2	18.7	—
Nov	5	35900	15.5	20661	1437	992	2429	11.8	6.8	1.0
Totals	189	1370241	15.8	799430	118707	81908	200615	25.1	14.6	1.4

Estimated Stripping Method = 739463 Cu. Yds
- Thawing - = 792034 -

No Royalties Payable

November - 20000 Cu Yds.

Estimated Total Cu. Yds. Muck = 8690
" " " DS. = 10642
+ 1 Ft. extra depth = 1329
Estimated Total Cu Yds. M+DS = 11971 / 20661

Recovery @ 20% = 1437
+ Premium @ 3½% = 992
= 2429

Avg Depth Muck = $\frac{8690 \times 27}{35900}$ = 6.5 Ft.

" " DS = $\frac{11971 \times 27}{35900}$ = 9.0 ✓

Total Depth = $\frac{20661 \times 27}{35900}$ = 15.5

#per Total Cu Yd. = $\frac{242900}{20661}$ = 11.8

#per Sq. Ft. = $\frac{242900}{35900}$ = 6.8

Dredge № 11 - 1949

May - Dredge to dig 115000 Cu. Yds

△ №	Part of All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
319	P	16200	2818	10027	8245	
320	P	2375	672	878	1322	
321	P	550	162	293	317	
314	P	15200	2979	9408	484	Nothing added
315	P	45350	7960	30575	23149	
316	P	50000	8700	26500	16850	
317 + out	P	13914	2574	6692	7806	
		143989	25869	84223	68373	
				+	47177	From
					115550	

June - Dredge to dig 130000 Cu. Yds.

△ №	Part of All	Area Sq. Ft.	Muck cu yds.	D.S. Cu. Yds.	Value $	
317 + out	P	19608	3427	9432	10999	
317 + out	P	3100	603	1181	105	Nothing added.
		22708	4030	10613	11104	
				+	7662	From
					18766	
Tailings		98670		109633	16445	@ 15¢ x 30' deep
Totals		121378	4430	120246	35211	

May - 115000 Cu. Yds

Estimated Total Cu. Yds. Muck = 27869
" " " - D5 = 84273
" " " - M+D5 = 110092
+ 4280 Cu Yds. along cut = 4280
Estimated Total Cu. Yds. = 114372

Recovery @ 20% = 68373
Premium @ 35¢ = 47177
= $115550

Avg Depth Muck = $\frac{27869 \times 27}{143989} = 4.8$ Ft

" " D5 = $\frac{84273 \times 27}{143989} = 15.8$ ✓

Total Depth = $\frac{110092 \times 27}{143989} = 20.6$ ✓

$ per Total Cu. Yd = $\frac{11555000}{114372} = 101.0$

$ per Sq. Ft. = $\frac{11555000}{143989} = 80.2$

June - 130000 Cu. Yds.

Estimated Total Cu. Yds Muck = 4430
" " " D5 = 10613
+ " " " Tailings = 109633
" " " M+D5+Tails = 120246
+ 4800 Cu. Yds along cut = 4800
Estimated Total Cu. Yds. = 129476

Recovery @ 20% = 11104
+ Premium 35¢ = 4662
+ Tailings @ 15¢ = 16445
Estimated Total Recovery = $35211

Avg Depth Muck = $\frac{4430 \times 27}{121378} = 1.0$ Ft.

" " D5 = $\frac{120246 \times 27}{121378} = 26.7$ ✓

Total Depth = $\frac{124676 \times 27}{121378} = 27.7$ ✓

$ per Total Cu. Yd = $\frac{3521100}{129476} = 27.2$

$ per Sq. Ft. = $\frac{3521100}{121378} = 29.0$

Dredge N° 11 - 1949

July - Dredge to dig 145000 Cu Yds.

△ N°	Part or All	Area Sq. Ft.	Muck cu. yds.	D.S. Cu. yds.	Value $	
3-5-5 out	P	29715	7696	11321	1010	
3-4	P	48000	8016	27888	1452	
3-5-7	P	15000	—	10087	710	
3-5-4A	P	1300	—	1073	25	Nothing added.
3-5-4	P	11875	1983	8799	8787	
3-5-3	P	41250	9457	27967	30153	
3-5-3A	P	24750	9702	12421	18076	
		171440	36554	99474	59693	
				+	41188	From
					100881	
Tailings		5000		5555	833	@ 15¢ x 30' deep
Totals		176440	36554	105029	101714	

August - Dredge to dig 150000 Cu. Yds.

△ N°	Part or All	Area Sq. Ft.	Muck cu yds.	D.S. Cu yds	Value $	
3-13 + out	P	34700	2173	13555	4570	
3-12	P	15750	1338	9513	1543	1.5 Extra depth = 3792
		50750	3511	30868	6063	
				+	4183	From
					10246	
Tailings		96750		106944	16042	@ 15¢ x 30' deep
		145500	3511	137812	26288	
+ 1.5 Ft Depth				3792		
				140604		

July - 145000 Cu Yds

Estimated Total Cu. Yds. Muck = 36554
" " " DS = 99474
+ " " " Tailings = 5555
" " " M+DS+Tails = 141583
+ 3300 Cu. Yds. along cut = 3300
Estimated Total Cu. Yds = 144883

Recovery @ 70% = 5963
+ Prem. @ 3.5% = 4188
+ Tailings @ 15% = 833
Estimated Total Recovery = 10714

Avg Depth Muck = $\frac{36554 \times 27}{176640} = 5.6$ Ft

$ per total Cu Yd = $\frac{1017400}{144883} = 70.2$

" " DS = $\frac{105249 \times 27}{176640} = 16.0$

$ per Sq. Ft. = $\frac{1017400}{176640} = 57.6$

Total Depth = $\frac{141583 \times 27}{176640} = 21.6$

August - 150000 Cu. Yds

Estimated Total Cu. Yds Muck = 3511
" " DS = 30868
+ 1.5' Extra depth = 2792
+ Estimated Total Cu. Yds Tailings = 106944
Estimated Total Cu. Yds M+DS+Tails = 140604
+ 1500 Cu. Yds along cut = 1500
Estimated Total Cu. Yds = 144115

Recovery @ 70% = 6063
+ Prem @ 3.5% = 4183
+ Tailings @ 15% = 16042
Estimated Total Recovery = 26288

Avg. Depth Muck = $\frac{3511 \times 27}{146500} = 0.6$ Ft

$ per Total Cu Yd. = $\frac{2628800}{144915} = 17.5$

" " DS = $\frac{140604 \times 27}{146500} = 25.9$

$ per Sq. Ft. = $\frac{2628800}{146500} = 17.9$

Total Depth = $\frac{144115 \times 27}{146500} = 26.5$

Dredge No 11 - 1949

September - Dredge to dig 150000 Cu Yds

Δ No	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
312	P	34250	2911	20687	3346	
310	P	11685	3026	5060	572	1.5' Extra depth = 7913
311	P	37000	4810	20572	2590	
313	P	56500	3048	36830	7794	
		139435	14495	83149	14312	
				+	9875	Prem
					24187	
+ 1.5' Extra				7913		
				91062		
Tailings		34750		38611	5792	@ 15¢ x 30' deep
Totals		177185	14495	129673	29979	

October - Dredge to dig 145000 Cu. Yds

Δ No	Part or All	Area Sq. Ft.	Muck Cu. Yds.	D.S. Cu. Yds.	Value $	
353A + out	P	30360	2022	15392	2375	
353	P	14000	3108	9492	10234	
354	P	28750	4801	23024	21275	Nothing added
352	P	6750	3375	3503	4988	
		79860	23306	49491	38872	
				+	40622	Prem
					99494	
Tailings		60088		46764	10015	@ 15¢ x 30' deep.
Totals		139948	23306	116455	109509	

September - 150 000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 14495
" " " D.S. = 8349
+ 1.5' Extra depth = 7913
+ Estimated Total Cu. Yds Tails = 38611
Estimated Cu. Yds. M. + D.S. + Tails = 129673
+ 5900 Cu. Yds. along cut = 14168
Estimated Total Cu. Yds = 5900
= 150068

Recovery @ 20 ¢ = 14312
+ Prem @ 35 ¢ = 9875
+ Tailings @ 15 ¢ = 5792
Estimated Total Recovery = $29979

Avg. Depth Muck = 14495 × 27 / 17785 = 22 Ft.
" " D.S. = 129673 × 27 / 17785 = 19.8'
" Total Depth = 141168 × 27 / 17785 = 22.0'

¢ per Total Cu Yd. = 2997900 / 150068 = 20.0
¢ per Sq. Ft. = 2997900 / 17785 = 16.9

October - 145000 Cu. Yds.

Estimated Total Cu. Yds. Muck = 23306
" " " D.S. = 49691
+ " " " Tailings = 66764
" " " M. + D.S. + Tails = 116455
+ 5250 Cu. Yds along cut = 139761
Estimated Total Cu. Yds = 5250
= 145011

Recovery @ 20 ¢ = 58872
+ Prem @ 35 ¢ = 40623
+ Tailings @ 15 ¢ = 10014
Estimated Total Recovery = $109509

Avg. Depth Muck = 23306 × 27 / 139948 = 4.5 Ft.
" " D.S. = 116455 × 27 / 139948 = 22.5'
" Total Depth = 139761 × 27 / 139948 = 27.0'

¢ per Total Cu. Yd = 109509 00 / 145011 = 75.5
¢ per Sq. Ft. = 109509 00 / 139948 = 78.2

Dredge Nº 11 - 1949

November - Dredge to dig 15000 Cu. Yds.

D Nº	Part or All	Area Sq. Ft.	Muck Cu. yds.	D.S Cu yds.	Value $	
352	P	12400	6200	6435	9163	
351	P	2450	1242	906	1805	Nothing added
		14850	7442	7341	10968	
				+	7568	Prem
					18536	

Dredge Nº 11 - Recapitulation - Season 1949

Starts May 1st - Shuts down November 5th - 189 days.

To dig 850000 Cu. Yds -

Month	Days Run	Area Sq. Ft.	Depth Feet	Total cu. yds.	Recovery @ 70¢	Premium @ 35¢	Gross $	¢ Per Cu yd	¢ Per Sq Ft	Extra Depth Ft.
May	31	143989	20.6	114372	68373	47177	115550	101.0	80.2	—
June	30	121378	27.7	129476	27549	7662	35211	27.2	29.0	—
July	31	176640	21.6	144883	60526	41188	101714	70.2	57.6	—
Aug	31	146500	26.5	149915	22105	4183	26288	17.5	17.9	1.5
Sept	30	177185	22.0	150068	20104	9875	29979	20.0	16.9	1.5
Oct	31	139948	27.0	145011	68887	40622	109509	75.5	78.2	—
Nov	5	14850	26.8	14783	10968	7568	18536	12.5	12.5	—
	189	970490	24.9	848508	278512	158975	436787	51.5	47.5	

Estimated Stripping Without = 238971 Cu. Yds.
- Thawing - = 663463
Royalties payable - Claims 60-61 Below Hunker and 1A Hester
= $6030

Royalty Payable on 60-61 Below Hunter and Cr. claims 1A Hester

		Prod	$
3N3A+out	218×24 + 22×48	10632	7835
3N3	176×218	38368	28047
3N4	85×220 − 45×10	9125	675
3N4A	300×30	4500	85
3N5	88×210 + 22×30	19230	654
3N6	162×210	34020	816
3N7	85×240 − 18×80 + 22×100	12100	411
			44600
			+ 30774
			75374

67% × 44600 = $3568.00 Prem
= 4030

Nº 3933

November - 15000 Cu. Yds.

Estimated Total Cu. Yds Rock = 7442
" " " .5 = 7341
" " " M+.5 = 14783

Recovery @ 20¢ = 10968
+ Prem. @ 35¢ = 7568
= $18536

Avg. Depth Rock = $\frac{7442 \times 27}{14850} = 13.5$ ft.

" " .5 = $\frac{7341 \times 27}{14850}$ 13.3 ✓

Total Depth = $\frac{14783 \times 27}{14850} = 26.8$ ✓

¢ per Total Cu Yd = $\frac{1853600}{14783} = 12.5$ ✓

¢ per Sq. Ft. = $\frac{1853600}{14850} = 12.5$ ✓

Drs. 3-4 - 15 Cu Yds per lin Ft along old cut
" 7-10 - 5 " " " " "
" 6-8-9-11-10 " " " " "

Dredge № 3 - Season 1949 Budget

Month	Days Run	Area Sq Ft	Depth Feet	Total Cu.Yds.	Gross Recovery	¢ per Cu.Yd.	¢ per Sq Ft
May	31	149179	40.0	215080	17084	7.9	11.5
June	30	195354	35.9	260000	20652	7.9	10.6
July	31	245628	35.2	320100	20016	6.3	8.1
August	31	272900	31.6	319389	26988	8.4	9.9
Sept.	30	330414	26.2	320284	43303	13.5	13.1
Oct.	31	319719	27.0	319719	54033	16.9	16.9
Nov	5	44670	27.0	44670	5283	11.8	11.8
	189	1557864	31.2	1799284	187359	10.4	12.0

Note:- Depths are based on depth dredged in adjacent ground and depths shown in adjacent Drill Holes in Virgin Area.
Value per cu yd is based on actual recovery in adjacent dredged ground and Drill Hole values in the virgin ground.
A depth of 15 Feet has been allowed for swell in old Tailings.

Dredge № 4 - Season 1949 Budget

Month	Days Run	Area Sq Ft	Depth Feet	Total Cu.Yds.	Gross Recovery	¢ per Cu.Yd.	¢ per Sq Ft
May	31	160417	35.0	215147	26451	12.29	16.5
June	30	190967	35.0	255050	31488	12.35	16.5
July	31	235505	35.0	309934	38832	12.53	16.5
August	31	246477	35.0	310081	37343	12.04	16.5
Sept	30	225785	35.0	300685	37230	12.38	16.5
Oct	31	211892	35.0	274674	34938	12.72	16.5
Nov	5	27075	35.0	35097	4464	12.72	16.5
	189	1278118	35.0	1700668	210746	12.39	16.5

A depth of 35.0 Feet has been allowed over whole Area.
A value of 12.72 ¢ (14.0 ¢ @ 38.5%) per Cu Yd. has been allowed over virgin area.
15 Cu yds. per lin. Ft. have been allowed along old cut
Estimated Thawing Write off = 157107 Cu.Yds.

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Royalty Payable Claim #61

$\sqrt{12}$ - $\frac{\sqrt{702} \quad \sqrt{818}}{\sqrt{584} \quad \sqrt{702}}$ $\frac{}{118 \quad 116}$ $117 \times 158.1 = 18498$ Sq Ft.

$\sqrt{13}$ - $\frac{210 \times 338}{2} = 35490$ Sq Ft.

$\sqrt{14}$ - $\frac{6418 \quad 6618}{6430 \quad 6422}$ $\frac{}{194 \quad 196}$ $194 \times 158.1 = 30671$ Sq Ft.

	Area	#
$\sqrt{12}$ -	18498	4846
$\sqrt{13}$ -	35490	8943
$\sqrt{14}$ =	30671	7882
		# 21671

$\frac{\# 21671}{2} = \# 10835.50 \times 10\% = \# 1084.00 + 748$

$= \# 1832$

No 3817

№ 3871

Royalty payable claims 61A

			Area	$
503	4540 − 4438 = 102	4644 − 4540 = 104	103 × 158.1 =	16284	2394
504	5592 − 5320 = 272	6050 − 5870 = 230	279 =	36205	6263
505	6205 − 6056 = 149	6353 − 6205 = 148	149 =	23579	4478
506	208 × 198 + 258 × 100 + 355 × 38 + 120 × 40		=	43067	7320
507	328 × 177		=	58028	5457
508	350 × 354		=	61950	6752
515	145 × 50		=	3625	362
514	95 × 150		=	7125	1831
513	232 × 150		=	34800	8770
					$45267
				+	31483 Prem.
					= $77110

10% × $77110 = $7711.00

Nº 3872

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