Report

to

James A. Murray and Ed Fletcher on the

Value of the Physical Items
of their Property
Cuyamaca Water Company

by

Philip E. Harroun, Consulting Hydraulic Engineer.

May 21, 1914.

San Francisco, California.

to

James A. Murray and Ed Fletcher

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Messrs. James A. Murray and Ed Fletcher, San Diego, California.

Gentlemen: -

value of the physical items entering into and making up the water works property owned by you and operated under the name of the Cuyamaca Water Company.

The full details of this valuation follow. This value is as of date June 1, 1914.

In arriving at the value of the property, I

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have used that value determined by the Railroad Commission of California in its decision No. 536 on Application No. 118. as a starting point. The value there determined by the Commission was based upon the value presented by the writer at the hearing of the case in 1912, with the exception of the value of the lands. Mr. Eshleman, who heard the case. raised the values as estimated by the writer, and his determination of land values has been used. The value found by the Commission was as of date of June 1, 1912, and this has been brought down to June 1, 1914 through the application of accrued depreciation and also through the deduction of structures abandoned since June 1, 1912. The final summary sheet shows that this portion of the property has a reproduction cost of \$946,518.00 and a present value of \$522,743.00.

within the last two years considerable new construction and replacement has been made to the system. In arriving at the value of these items, your cost records, as kept by Mr. William S. Post, your chief engineer and your book accounts have been analyzed. From this data the resulting valuation is determined.

Analysis of the accounts shows that the segregation of the amounts against the various items has not been
correctly made, and in many cases charges which properly
accrue against the property do not appear upon your books.
This is especially true with relation to such items as interest
during construction, and other overhead accounts.

On the other hand, certain units have apparently been debited with amounts in excess of their proper charge, to the credit of other items. The analysis presented in the appendix has corrected these matters so far as is possible, and it is believed that the resulting summary presents a true statement of the condition of the system.

The constructional items placed since June 1, 1912 have a reproduction cost of \$247,596.00 and a present value of \$239,578.00.

It will be noted in the final summary that there have been certain items "donated" to the Cuyamaca Water Company. The word "donated" is not used in its ordinary acceptance, but is here used to indicate those items which have been acquired by the Cuyamaca Water Company for which no voucher appears upon your books. These items aggregate \$58,016.00 as to reproduction cost and \$46,701.00 as to present value.

In determining the overhead expense chargeable against the system, it has been found that under the head of Engineering the charge upon your books aggregates 4.4% upon that portion of the property against which such charges have been made. As only a small portion of these charges have been entered into the accounts, I have placed against the entire property the corresponding percentage.

Interest during construction has been taken as 8% over the construction period for half the cost thereof.

8% has been used for the reason that this rate has been paid for such moneys as you have borrowed from the bank.

The other items entering into overhead consist of salaries of officers and clerks, contingencies and legal expense, for which little or no charge has been made on your books. These items make up the 21% which has been used in the final summary.

The entire property has a reproduction cost of \$1,252,130.00 and a present value of \$809,022.00 as of date June 1, 1914.

Respectfully presented.

RE. Harrown

San Francisco, May 21, 1914. This estimate is made in two parts.

- 1912, has been corrected to date. Properties shown therein which have since been abandoned are stricken out and depreciation for the remaining structures has been modified to provide for two additional years of age. In some instances the probable life of structures has been lengthened due to improvements calculated to increase life or due to demonstration that the former estimated life was too short.
- 2nd. A valuation of properties acquired or constructed between June 1st, 1912 and June 1st, 1914.

CORRECTION OF VALUATION OF RAILROAD
COMMISSION, DATED JUNE 1, 1912, TO
EXCLUDE STRUCTURES ABANDONED OR REPLACED, AND TO ALLOW FOR ACCRUED
DEPRECIATION TO JUNE 1, 1914.

VALUATION AND DEFRECIATION DETAIL SHEET.

	COST TO	REPRODU	OE				PHYSIC	AL DEP	RECIATION.	
Item	Quantity	Unit	Cost	Sub	Total	Age Yrs.	Prob.	Dep.	Sub	Total
Riveted Steel				PIPE DISTRI						
4 inch	5135	lin.ft.	\$0.28	\$1440.		14	17	82	\$1186.	
4	2365		0.28	660.		6	14	43	283.	
6	1200		0.40	480.		6	14	43	206.	
8	5000		0.51	2550.		6	14	43	1093.	
20	1114		1.27	1415.	6545.	10	16	63	884.	\$3652.
Screw Casing				1						
3 inch	5666		0.24	1360.		14	16	88	1190.	
4	3296		0.26	857.		19	24	79	678.	
6 (second han	d) 334		0.38	127.		4	20	20	25.	
8 " "	284		0.60	170.		4	20	20	34.	
10 " "	350		0.85	297.		4	25	16	48.	
			Fwd.	\$2811.	\$6545.			Fwd.	\$1975.	\$3652.

CUYAMACA WATER COMPANY. VALUATION AND DEPRECIATION DETAIL SHEET.

		COSS	TO REPRO	DUCE			PHY	SICAL DE	EP RECIA	TION	
It	em	Quantity	Unit	Cost	Sub	Total:	Age Yrs.	Prob.	Dep.	Sub	Total
						RIBUTION Specials			1.		
Screw	Casing-Cor	nt'd.	Brot.	Fwd.	\$2811.	\$6545.				\$1975.	\$3652.
	inch (second		lin.ft.	1.02	346.		4	25	16	55.	
12	inch (second	927		1.16	1075.	\$4232.	4	25	16	172.	\$2202.
stand	lard Screw										
12	inch	460		0.14	65.		3	20	15	10.	
2	" (2nd.hd	1)2000		0.16	320.		3	20	15	48.	
2	п	2500		0.19	475.		6	20	30	143.	
2	п	1500		0.19	285.		5	6	83	238.	
2	11	1682		0.19	320.	\$1465.	26	30	. 86	276.	\$715.
Wood	Stave										
8	inch	400		0.51	204.		17	20	85	173.	
8	и .	7200		0.51	3670.		13	16	81	2982.	
24	"	6345	Grand To	1.55 otal	9850	\$13724. \$25966.	18	25	72	7092.	\$10247. \$16816.

CUYAMACA WATER COMPANY PHYSICAL DEPRECIATION & PRESENT VALUE IN DETAIL

	COST	O REPROD		PHYSICAL WITHOUT O	L DEPRECI		PRESENT	VALUE
Item	Sub Total	Total	Age Yrs.	Prob.	Annual Deprec.	Total	Without Over- head charges	With Overhead Charges
Rive ted Steel				. Pipe I	Distribut ng Specie	ion System. ls & Valves	·s)	
4" diameter	\$1476.		14	17	\$87.	\$1218.	\$258.	\$318.
4"	677.		6	14	48.	290.	387.	477.
6"	492.		6	14	35.	211.	281.	346.
8"	2618.		6	14	187.	1112.	1506.	1855.
20"	1450.	\$6713.	10	16	91.	906.	544.	670.
Screw Casing								
3"	1393.		14	16	87.	1219.	174.	214.
4"	878.		19	24	37.	695.	183.	225.
6 u	130.		4	20	7.	26.	104.	128.
8"	174.		4	20	9.	35.	139.	171.
10"	305.		4	25	12.	49.	256.	315.
11"	356.		4	25 -	14.	57.	299.	368.
12"	1100	\$4336.	4	25	44.	176.	924.	1138.
FWD		\$11049.			\$658.	\$5994.	\$5055.	\$6225.

PHYSICAL DEPRECIATION & PRESENT VALUE IN DETAIL

CO	ST TO REI	PRODUCE				EPRECIATION HEAD CHARGE		PRESENT VAI	UE
Ite	m .	Sub Total	Total	Age Yrs.	Prob. Life	Annual Deprec.	Total Deprec.	Without Over- head charges	With Overhead charges
				(In	Pipe Dis	tribution Specials & V	ystem	Cont'ā.	
	1	BROT. FWD.	\$11049.			\$658.	\$5994.	\$5055.	\$6225.
Stand	ard Screw								
11	inch	67.		3	20	3.	10.	57.	70.
2		328.		3- 4	20-	16.	49.	279.	344.
2	1	487.		6	20	24.	146.	341.	420.
2		292.		5	11/6.	49.	243.	49.	60.
2		328.	1502.	26	30	12.	284.	44.	54.
Wood	Stave				11				
8	inch	210.		17	20	11.	179.	31.	38.
8		3770.		13	16	236.	3064.	706.	870.
24		10000.	13980.	18	25	400.	7200.	2800.	3450.
			\$26531.			\$1409.	\$17169.	\$9362.	\$11531.

CUYAMACA WATER COMPANY PHYSICAL DEPRECIATION AND PRESENT VALUE

	COST TO REP	TODOD	Prob.	THE DESTRUCTION	LING THE TON .	PRESENT	VALUE
Item	Cost to Reproduce	Age Yrs.	Life Yrs.	Annual Deprec.	Total Deprec.	Without Over- head charges	With Overhead Charges
Real Estate & Rights of Way	\$148,342.			none	none	\$148,342.	*\$166,143.
Buildings & Improvements							
Cuyamaca Reservoir	4,096.	26	36	113.	2,958.	1,138.	1,402.
La Mesa Reservoir	763.	20	36	21.	424.	339.	418.
Frame Dwelling-End of flume	865.	12	35	25.	297.	568.	700.
	250.	17	30	8.	142.	108.	133.
Store supply " " "	V20.	22	30	24.	528.	192.	237.
Fence " " "	65.	26	36	2.	47.	18.	22.
Teralta	100.	4.	30	3.	13.	87.	107.
Frame Dwelling, etc., Chocolate	550.	26	30	18.	477.	73.	90.
Fence "	65.	26	36	2.	47.	18.	22.
Los Coches Trestle	356.	12	15	24.	285.	71.	87.
Fwd.	\$156,172.			240.	5,218.	150,954.	169,361.

CUYAMACA WATER COMPANY PHYSICAL DEPRECIATION AND PRESENT VALUE

			Prob.	HYSICAL DEPR		PRESENT	VALUE
Item	Cost to Reproduce	Age Yrs.	Life Yrs.	Annual Deprec.	Total Deprec.	Without over-	The second secon
Bro't.Fwd.	\$156,172.			240.	5,218.	150,954.	169,361.
Los Coches	430.	12	15	29.	344.	86.	106.
Section No.5	208.	2	36	6.	12.	196.	241.
Diverting Dam - Adobe House	1,848.	26	48	38.	1,001.	847.	1,044.
Barn, etc.	181.	26	30	6.	156.	25.	31.
Stand Pipe	109.	14	30	4.	51.	58.	71.
Murray Mill	17.	3	30	1.	2.	15.	18.
South Fork	77.	3	5	15.	46.	31.	38.
CUYAMACA DAM	30,857.	27	100	309.	8,331.	22,526.	27,752.
DIVERTING DAM	27,647.	27	100	276.	7,465.	20,182.	24,864.
FWD	- \$217,546.			924.	22,626.	194,920.	223,526.

PHYSICAL DEPRECIATION AND PRESENT VALUE

				Prob.			PRESENT	VALUE
Item		Cost to Reproduce	Age Yrs.	Yrs. Life	Annual Deprec.	Total Deprec.	Without Over- head charges	With Overhead Charges
Bro't.Fwd.		\$217,546.			924.	22,626.	194,920.	223,526.
Flume								
Wood Structure		345,972.	26	34	10,176.	264,567.	81,405.	100,291.
Clearing		475.	26	100	5.	124.	351.	432.
Benching		59,445.	26	100	594.	15,456.	43,989.	54,194.
Tunnels		45,823.	26	100	458.	11,914.	33,909.	41,775.
Siphons		10,503.	4	20	525.	2,101.	8,402.	10,351.
	Total	\$462,218.	//	* 11	11,758.	294,162.	168,056.	207,043.
Eucalyptus Dam		8,863.	22	100	89.	1,950.	6,913.	8,516.
La Mesa Dam		13,185.	19	100	132.	2,505.	10,680.	13,158.
La Mesa Ditch								
La Mesa Ditch		2,650.	20	100	27.	530.	2,120.	2,612.
Siphon		3,110.	20	25	124.	2,488.	622.	766.
	Total	\$5,760.			151.	3,018.	2,742.	3,378.
Murray Hill Dam		40,239.	3	100	402.	1,207.	39,032.	48,087.
FWI		\$747,811.			13,456.	325,468.	422,343.	503,708.

CUYAMACA WATER COMPANY PHYSICAL DEPRECIATION AND PRESENT VALUE

		COST TO RE	PRODUC	E AND	PHYSICAL D	EPRECIATION		
Item		Cost to Reproduce	Age Yrs.	Prob. Life Yrs.	Annual Deprec.	Total Deprec.	Without Over- head charges	With Overhead Charges
	BROT. FWD.	\$747,811.			13,456.	325,468.	422,343.	503,708.
PIPE LINES as per details	on separate sh	eet 26,531.			1,409.	17,169.	9,362.	11,531.
Meters		684.		10% 20%				356.
Materials		3,481.	¥.					3,389.
Tools, etc		3,985.	1					3,322.
Telephone		807.	19	34	24.	452.	355.	437.
		\$783,299.			14,889.	343,089.	432,060.	522,743.

^{*}No contractor's profit; only 12% overhead charges.

Item	Basic Reproduction	Basic Deprec.	Reprod.	Annual Deprec.	Total Deprec.	2 12% Overhead che Present Value
Real Estate	SUMMARY OF	REPRODUCTION	COST, DEPRECI	DIA HOLTA	PRESENT VAL	UE.
Rights of Way	148,342.	none	*166,143.	none	none	*166,143.
Buildings						
Improvements	10,700.	6,830.	13,182.	418.	8,415.	4,767.
Ouyamaca Dam	30,857.	8,331.	38,016.	381.	10,264.	27,752.
Diverting Dam	27,647.	7,465.	34,061.	340.	9,197.	24,864.
Flume	462,218.	294,162.	569,453.	14,486.	362,410.	207,043.
Sucalyptus Dam	8,863.	1,950.	10,919.	110.	2,403.	8,516.
La Mesa Dam	13,185.	2,505.	16,244.	163.	3,086.	13,158.
La Mesa Ditch	5,760.	3,018.	7,096.	186.	3,718.	3,378.
furray Hill Dam	40,239.	1,207.	49,574.	495.	1,487.	48,087.
Pipe Lines	26,531.	17,169.	32,686.	1,733.	21,155.	11,531.
leters			684.	14.	328.	356.
Materials on hand			3,481.		92.	3,389.
Pools, etc.			3,985.		663.	3,322.
Telephone	807.	452.	994.	30.	557.	437.
	\$775,149.	343,089.	946.518.	18,356.	423,775.	522,743.

^{12%} overhead charges are added; no contractor's profits.

The second secon	-		_		
Item	Quantity	Unit	Cost	Sub-Total	Total
REAL EST	ATE AND RI	CHTS OF	WAY		
Rights of Way	229.4	acres	\$25.	\$5735.	
Cuyamaca Lands	1675	"	76.75	128571.	
La Mesa Reservoir	96.7	11	100.	9670.	1.1.4
Eucalyptus Reservoir	4.36	ıı	100.	436.	
Eurray Hill Reservoir	26.2	n	150.	3930.	
					\$148,342.

VALUATION OF PROPERTY CONSTRUCTED

OR ACQUIRED

BETWEEN

JUNE 1st. 1912.

and

JUNE 1st. 1914.

			REF	RODUCTION	COST
Item	Quantit	y Unit	Unit Cost	Sub-total	Total
LANDS & RIGHTS	OF WAY	PURCHASI	ED BY CUYAMA	CA WATER C	0.
Site for Chocolate Pumping Plant	160	aeres	39.17	\$6268.00	\$6268.00
LANDS & RIGHTS (OF WAY	DONATED	TO CUYAMACA	WATER CO.	
Site for Webster Reservoir	0.14	acres	1428.57	200.00	
Site for Miles Reser- voir No. 1.	3		333,33	1000.00	
Site for Miles Reser- voir No. 2	+		400.00	200.00	
Right of Way for 4" Pipe Line from Webst Reservoir to Chase a San Diego Ave.		•	320.00	80.00	
Right of Way for 4" Pipe Line from Miles servoir No. 1 to Mil Reservoir No. 2			320.00	80.00	\$1560.00

\$2601.00

		Quantity E GATES FO		Unit Cost	Sub-total	Tota:
		E GATES FO				
24" x 24" Steel 30" x 30" "	Gate		DR DIVER	TING DAM		
30" x 30" "		1 .	each	197.50	\$198.00	
		1		269.50	269.00	
36" x 24" "	"	2	"	221.00	442.00	
Cartage & Freigh	nt	1	lot	12.42	12.00 \$	921.00
FLUME FOR BY-PAS		27	MBM	35.00	945.00	945.00
TEMPORARY DIVERT	ING DAI	Ā				
Lumber		6	MBM	35.00	210.00	
Tet Excavation	n	140	cu.yds	1.50	210.00	
Back filling Placing San		1	lot .	75.00	75.00	495.00
INSTALLING GATES						
Wet Excavation	n	60	cu.yds	1.50	90.00	
Labor and mat	erial	1	lot	150.00	150.00	240.00

			REPRODUCTION COST.				
Item	Quantity	Unit	Unit Cost	Sub-total	Total		
<u>N</u>	EASURING	STATIO	NS				
BOULDER CREEK WEIR							
Concrete	1	lot	120.00	\$120.00			
Lumber	1	•	15.00	15.00			
Blasting, excav- ation & erection	1	•	307.00	307.00	442.00		
MEASURING STATION BEL DIVERTING DAM	OW						
Concrete in Anchor and piers	8 1	18t	65.00	65.00			
Cables and Timber frames	1 -	(.)	35.00	35.00			
Labor erecting	1 .	•	103.00	103.00	203.00		
OLD MISSION DAM STATI	ON						
Cables	1	lot	26.35	26.00			
Automatic Register Bristol Gage	1	each	57.00	57.00			
Erecting cables and gage	1	lot	100.00	100.00	183.00		
					828.00		

REP	RODU	CTIO	N (OST.
The second second				The second second

Item

Quantity Unit Unit Cost Sub-total Total

LA MESA PUMPING PLANT

oyele, 178 amperes, 440 volts, speed 1200 R.P.M. including com- pensator, oil switch, etc.				
Weight 3800 lbs. F.O.B. Los Angeles	1	each	950.00	\$ 950.00
7 inch 2 stage Byron- Jackson Pump, Cap'y 1200 G.P.M. at 170 to 220 foot head. Weight 3300 lbs. F.O.B.				
West Berkeley	1		596.00	596.00
Excavation for Foundation	1	"	5.00	5.00
Concrete Foundation	7	cu.yds	11.13	78.00
Tubes, Bolts, etc.	1	lot	15.00	15.00
Freight on Machinery	1	*	35.00	35.00
Haul to plant	1		25.00	25.00
Belt 14" x 55' double leather	1	each	184.00	184.00
Suction and Discharge line including valves, special and fittings		lot	101.00	101.00
Installing, testing and adjusting motor and pump	1		75.00	75.00
Pump House 3	5000	ou.ft.	0.03	90.00
General Expense			2	163.00

			REPRODUCTION COST.				
Item Qua	atity	Unit	Unit Cost	Sub-total	Total		
CHOCOLATE C.	ANYON	PUMPIN	G PLANT				
Gas Engine Weight 15200 lbs.F.O.B. Los Angeles	1	each	1650.00	\$1650.00			
inch 3 stage Byron-Jack- son Pump- Weight 2150 lbs.F.O.B. West Berkeley		•	416.00	416.00			
Selt and Accessories	1	lot	146.00	146.00			
reight on Engine & Pump	1		88.00	88.00			
Haul, 8.7 tons, 12 miles, 45 f ton mile plus \$15. for handling	1		62.00	62.00			
Foundation & Belt Way- Excavation, mostly wet, and heavily timbered	150	cu.yds	. 1.50	225.00			
Concrete	70		13.00	910.00			
Tubes and Bolts	1	lot	15.00	15.00			
Reinforcement	50	owt.	4.50	225.00			
Lumber	2.6	M. B. M.	50.00	130.00			
Roofing	1	lot	30.00	30.00			
discharge Pipe- 8" O.D. casing	900	Lin.Pt	. 1.36	1224.00			
Suction Pipe - 6"Std.Screw	375		1.24	465.00			
4" " "	300		0.87	261.00			
4"O.D.Casin	g 150		0.74	111.00			
Valves, Specials & Fitting Carried Forward .	8 1	lot	236.00	236.00	6194.0		

			1	EPRODUCTION	N COST
Item	Quantity	Unit	Unit Cost	Sub-total	Tota
CHOCOLATE	CANYON I	PUMPING 1	PLANT (Conti	nued)	
brought forward					6194.
installing, adjusting & testing engine & pump	1	lot	150.00	\$150.00	
Casing stuck and aban oned	17	Lin.ft.	8.94	152.00	
drilled, cased and perforated	46		5.58	257.00	
drilled, cased and perforated	47		20.65	973.00	
drilled, cased and perforated	42	•	22,40	940.00	2322.
HAFT "A" 42 inch Concrete Pipe	20	Lin.ft.	4.30	86.00	
Haul & Handling Pipe	1	lot	78.00	78.00	
Excavation, wet	50	ou.yds.	5.00	250.00	
Timbering	1	M.B.M.	35.00	35.00	
Pumping out shaft	1	dot	100.00	100.00	549.00
HAFT "B" 38" Steel Shaft 12 Lin.ft.	650	lbs.	0.06	39.00	
Excavation, wet		ou.yds.	5.00	150.00	
Timbering		M.B.M.	35.00	35.00	
Pumping out shaft		job	100.00	100.00	324.00
				92	

			R	EPRODUCTION	COST.
Item	Quantit	y Unit	Unit Cost	Sub-total	Total
CHOCOLATE CA	NYON PU	MPING PL	ANT (Conti	nued)	
BROUGHT FORWARD					9389.00
TRENCH Excavation	750	ou.yds.	1.20	\$900.00	900.00
TIMBER GALLERY					
Excavation	100	cu.yds.	1.20	120.00	
Timbering	4	M. B. M.	35.00	140.00	240.00
General Expense -				788.00	788.00
Pump House, corrugated iron	3840	ou.ft.	0.062	250.00	250.00
					11717.00

REPRODUCTION COST.

Items

Quantity Unit Unit Cost Sub-total Total

PUMPING PLANT NO.3 - NEAR SCHOOL HOUSE ON INDIAN RESERVATION.

Gas Engine, Weight 4750# F.O.B.Los Angeles	1	each	\$ 650.00	\$ 650.00
Dean Vertical Triplex Pump, 8"x8", Weight 760 F.O.B. Los Angeles	0# 1	•	646.00	646.00
Freight on Engine & Pump	1	lot	62.00	62.00
Haul- 6.2 tons, 15 miles @ 45 f ton mile plus \$10. for handling	1	•	52.00	52.00
Installing, adjusting & testing engine & pump	1		40.00	40.00
Excavation for Foundation	8 1	•	5.00	5,00
Concrete Foundations	10	ou.yds.	11.00	110.00
Preparation of Site, leveling, clearing, etc.	1- 1	lot	113.00	113.00
Belts, pulleys, check valves, specials & fittings - estimated	1		150.00	150.00
Discharge Pipe- 6" O.D. Casing	340	Lin.ft.	1.02	347.00
Suction Pipe-4"O.D. Casing	275	•	0.74	204.00
" " 3"Std.Serew	227		0.72	163.00
5 Wells -10" Diameter cased and drilled	225	•	4.07	916.00
Pump House	1900	ou.ft.	0.03	57.00
General Expense				238.00

			REPRO	DUCTION COS	CTION COST	
Item Qu	entity	Unit U	nit Cost	Sub-total	Total	
PUMPING P	LANT NO	.4 - BEL	OW DIVERT	ING DAM		
7 H.P. Gas Engine, Weight 2550# F.O.B.Los Angeles	1	each	\$ 410.00	\$410.00		
stage Pump - Weight 375 F.O.B. West Berkeley	gle	•	68.00	68.00		
Freight on Engine & Pump	1	lot	16.00	16.00		
Haul - 1.5 tons, 18 miles 45 # ton mile, plus \$5. for handling	1	•	17.00	17.00		
Excavation for foundation	1	•	5.00	5.00		
Concrete Foundation	7	cu.yds	11,00	77.00		
Tubes & Bolts	1	lot	10.00	10.00		
Shaft 6'x6'x20' deep - heavily timbered - in wet excavation	75	ou.yd	B. 3.00	225.00		
Belt, Pulleys, Suction and Discharge Pipe, specials, valves & fittings	1	lot	90.00	90.00		
Installing, adjusting and testing pump & engine	1		25,00	25.00		
General Expense				62.00		
					1005.00	

	SAR SIERO		REPR	ODUCTION CO	ST
Item	Quantity	Unit	Unit Cost	Sub-total	Total
SAI	D CREEK	SIPHON			
Excavation & Backfill	2450	ou.yds	\$ 0.75	\$ 1838.00	
42" Reinforced Concrete Pipe	1227	Lin.ft.	4.29	5267.00	
URES OUTLET STRUCT					
Concrete	20	cu.yds.	13:50	270.00	
Reinforcement	2.5	owt.	4.50	11.00	
Timber Screens	2	each	5.00	10.00	
Excavation & Backfill	50	cu.yds.	1.00	50.00 \$	7446.00
CONC	RETE CON	DUIT "A"			
Bettom Width 3', depth side slopes 1 to 1, p able thickness 5", le	45, orob- ngth				
Excavation	1600	cu.yds.	1.50	\$2400.00	
Concrete	205	•	13.50	2768.00	
Reinfordement wire netting	154	squares	1.00	154.00	5322.00
CONC	CRETE CON	DUIT "B"			
Concrete Flume - width 3'-8", depth 3'-2", s walls 3" thick, botto 3" to 6" thick-Clinto Mesh Reinforcement, 250 feet -	om on				
Excavation Concrete Reinforcement Brace Bars	25 35 60 1.7	cu.yds.	1.50 13.50 5.00 4.00	473.00 300.00	\$823.00

REPRODUCTION COST

Items

Quantity Unit Unit Cost Sub-total Total

CONCRETE DONDUIT "C"

Lined Channel- diam.6',
Depth 3'-6", Reinforcement wire mesh. "Cement
Gun" process. Length
212 feet -

Excavation 145 cu.yds. 1.50 \$218.00

Cement Lining & Reinforcement-Contract work 212 Lin.ft. 2.20 466.00 \$684.00

AND THE RESIDENCE AND	NAME AND ADDRESS OF THE OWNER.	and the second
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mer market by the same and the same	The second secon	Contract to the Second Contract of the Second

Item Quantity Unit Unit Cost Sub-total Total

STEEL FLUMES

Excavation, actual cost	1	lot \$	1467.00	\$1467.00
Concrete Piers	105	cu.yds.	13.50	1418.00
Lumber, second hand	91	M.B.M.	35.00	3225.00
Steel Flume - 5'-82" diam F.O.B. Lakeside	2530	Lin.ft.	2.00	5060.00
Steel Flume - 3'-21' diam F.O.B. Lakeside	2500	11	.95	2375.00
Hauling and distribut- ing flume	1	lot	356.00	356.00
Erection of steel flume 5'-82" diam.	2530	din.ft.	. 50	1265.00
Erection of Steel flume 3' -21" diam.	2500	п	.30	750.00
Steel Angles & Stiffen- ers for flume posts	1	lot	487.00	487.00
Road Construction	1	п	230.00 _	230.00

\$16,633.00

	REPRODUCTION COST.						
Item Q	uantity	Unit	Unit Cost	Sub-total	Total		
LINING	WOOD F	LUMES					
PREPARING FLUME FOR LINI	<u> </u>						
Mopping with asphalt	13355	square	.027	\$ 361.00			
Nails & Felt	13355	tt	.027	361.00			
Freight on material	13355	11	.108	1442.00			
Labor mopping, applying felt, etc.	13355	12	.416	5556.00			
Miscellaneous	13355	. 11	.028	374.00			
			.606		8084.00		
INING FLUME							
Flume 6' wide, 1' to 4' high- Length 163,862' 2 Ply Roofing Material in place	12132	square	2.52	30656.00			
Felt, asphalt and 1 Ply Roofing material in place	1223 13179	- "	3.95 2.66		5487.00		
RAISI	G SIDE	BOARDS	ON FLUMES				
ides of flumes were raised 12" to 14" by placing additional				,			
boards - umber, Second-hand	83.3	M.B.M	\$35.00	\$ 2916.00 \$	2916.00		

REPRODUCTION COST.

Item

Quantity Unit Unit Cost Sub-total Total

STRENGTHENING FLUME STRUCTURES

Extra Trestle Bents, Posts & Sills -Lumber - Second Hand

Lumber - Second Hand 69 M.B.M. 35.00

\$2415.00 \$2415.00

MEASURING BOXES

Measuring Boxes

49 each

18.50

907.00

907.00

			RE	PRODUCTION COST	
Item	Quantity	Unit	Unit Cos	t Sub-total Total	

TUNNELS

LANKERSHIM TUNNEL LINING

400 Lin. ft. of roof, lined with concrete sl and back filled with lean concrete - Forms for making slabs		set \$	84.00	\$ 84.00	
Cement	45	Bbls.	2.50	113.00	
Sand	13	cu.yds.	1.00	13.00	
Broken Stone	26		4.00	104.00	1.00
Labor making slabs	1	lot	129.00	129.00	
Hauling Slabs and back- fill material to tunnel	1	7	165.00	165,00	
Labor placing slabs in tunnel & backfilling		11	516.00	516.00	
					\$1124.00

EXCAVATION AT PORTALS OF TUNNEL #12

Excavation as per payrolls 1 Job \$1080.00 \$1080.00 \$1080.00

	Charles of the State of				PRODUCTION OF THE RESERVE	-
				RODUCTION COST		
Item	Que	ntity	Unit	Unit	Sub-total	Total
	TELE	PHONE	LINE			
42 Miles Telephone Line 2 Wires -	2					
1890 poles @ 14 F.B.M.	each	2.65	M.B.M.	\$30.00	\$ 795.00	
Digging holes, placing poles, backfilling & Tamping		1890	each	0.40	756.00	
Brackets		3.78	М	17.75	67.00	
Insulators		3.78	M	22.00	83.00	
No. 14 Wire		84	ewt.	5.20	437.00	
Freight to Lakeside		1	lot	54.00	54.00	
Haul and distribution		1.	"	66.00	66.00	
Stringing wire		42	miles	7.50	630.00	

\$2888.00

_							REPRODUCTION	COST.
	Items		Qu	antity	Unit	Unit Cost	Sub-total	Total
	PI	PE LIN	ES CON	STRUCT	ED BY	UYAMACA W	ATER CO.	
n g	Standard	Screw	Pipe	1262	Lin.ft	. 0.1944	\$ 245.00	
ıı	п	u	11	11606	II .	0.2649	3074.00	
11	п	н	II .	5070	"	0.3840	1947.00	
	res, Speci Fittings						263.00	\$5529.00
" C	ast Iron	n Pipe		24	Lin.ft	. 0.7046	17.00	
	res,Spec						1.00	18.00
P	and 12" Pipe, mos ittings	stly v	alves,	s 51	Lin.ft	. 9.00	459.00	459.00
T W	Riveted 4 gage S with Malt aterial, alves, s	piral: thoid I	ly wran					
	ittings			15920	Lin.ft	. 1.217	19378.00	
311	- ditto	-		24760	11	1.555	38511.00	57889.00
							_	\$63895.00

								REPRODUCTION	COST.
	Item	8		Qu	antity	Unit	Unit Cost	Sub-total	Total
		PIPE	LIM	SS DO	NATED	TO CUYAN	ACA WATER	00.	
lat .	Standa	rd S	crew	Pipe	10809	Lin.ft.	0.1836	\$1984.00	
11	it	19		u ·	8636	п	0.1944	1680.00	
1.n	ш	11		11	1935		0.2334	452.00	
п	11	18		11	69531	n	0.2649	18418.00	
111	11	11		11	4972	- 11	0.3840	1909.00	
18	п	0		п	4516	п	0.5197	2347.00	
17	0.D.C	asin	g Pi	pe -	300	11	0.3498	105.00	
al	ves. S Fitti			and				1345.00	
									28240.00
17	Cast I	ron	Pipe		1657	Lin.ft.	0.7046	1168.00	
17	п	18	11		7422	11	0.9649	7161.00	
1	ves, S							416.00	8745.00
									36985.00

CUYAMACA WATER COMPANY

STATE SERVICE	ALTERNATION AND ADDRESS.	A REPORT AND ADDRESS.	OF 100 100 100
1630 MH	00000004	TON	COST.
distributed by a	MALL MY	1 also 1 also 1	AMMT.

Items

Quantity Unit Cost Sub-total Total

METERS AND SERVICES DONATED TO CUYAMACA WATER CO.

Connections and 5/8" Meter

242

each \$16.00 \$ 3872.00 \$3872.00

METERS AND SERVICES INSTALLED BY CUYAMACA WATER CO.

₹n	Conne	ction &	ba"Met	er	7	each	\$15.00	\$ 105.00	
ån	17	& 5/8	3" "	*	405*	. If	16.00	6480.00	
an 4	19	& 3n	11		18	п	20.00	360.00	
1"	11	& 1"	11		97	11	26.00	2522.00	
12"	п	& 1½'	Disc Met		29	11	47.00	1363.00	
13"	11	&11 0	rest	п	3	11	42.00	126.00	
2"	11	& 2" I	Disc	11	9	11	68.00	612.00	
211	п	& 2" C	rest	11	2	11	53.00	106.00	
3"	п	& 3"	п	tf	4	11	98.00	392.00	
411	19	& 4"	. 11	11	4	11	188.00	752.00	
611	Comp	ound Me	ter		1	11	501.00	501.00	
1011	Cres	t "			1	11	751.00	751.00	\$14070.00

Deduct Meters shown on R.R. Commission's Valuation of June 1,1912

556.00

\$13514.00

^{* 50} of these meters not yet entirely installed but work of placing is now in progress. *

CUYAMAUA WATER COMPANY

				REPRODUCTI	ON COST
Items	Quant	ity Unit	Unit	Sub-total	Total
WEBSTER RE	SERVOI	R - DONAT	ED TO CU	YAMACA WAS	EER CO.
Embankment	300	ou.yd	s. \$0.50	\$150.00	
4 inch Gate Valve in place	1	each	8.00	8.00	\$158.00
MILES RESERV	OIR NO	. 1 - DON	ATED TO	CUYAMACA W	ATER CO.
Embankment	4190	cu.yds.	0.45	\$1885.00	
Riprap	2500.	sq.ft.	0.11	275.00	
6" Std.Screw Pipe	175	Lin.ft.	0.785	137.00	
6" Gate Valve in Place	1	each	12.00	12.00	
Inlet Flume	1	п	30.00	30.00	
Earth Ditch	1	II	50.00	50.00	\$ 2389.00
MILES RESERVOIR	NO. 2	- DONATE	D TO CUY	AMACA WATE	R CO.
Embankment	1700	ou.yds.	0.45	765.00	
Riprap	7500	sq.ft.	0.11	825.00	
6" Std.Screw Pipe	70	Lin.ft.	0.785	55.00	
6" Gate Valve in place	9 1	each	12.00	12.00	\$ 1657.00

CUYAMACA WATER COMPANY

				REPRODUCTI	ON COST.
Items (Quantity	Unit	Unit	Sub-total	Total
PUMPING PLANT NO. 5	- DONAT	ED TO	DUYAMACA	WATER CO.	
15 H.P. Otto Gas Engine	1	each	\$650.00	\$650.00	
7" x 8" Gould Triplex Pump	1	ıı	400.00	400.00	
Freight on Engine & Pump	0 1	lot	48.00	48.00	
Haul " " "	1	. 11	26.00	26.00	
Connections & Foundation	ns 1	"	100.00	100.00	
Pump House Frame	3400	cu.ft.	0.03	102.00	\$1326.0

\$8042.00

CUYAMACA WATER COMPANY

		-		EPR ODUCTI	CON COST.
Items Q	uantity	Unit	Unit Cost S	ub-total	Total
TOOLS, MATERI	ALS, ETC	., ON	HAND		
Materials as per Invento	ry 1	lot	\$4289.00	\$4289.00	
Supplies " "	1	ıt	273.00	273.00	
Tools & Equipment "	" 1	11	2500.00	2500.00	
Construction Plant	1	11	726.00	726.00	*
Camp Equipment	1	11	1017.00	1017.00	
Office Equipment, furn- iture & Supplies	1	п	2784.00	2784.00	\$11589.00
Deduct Tools and Material shown on R.R.Commissi	The state of the s		- 1		
Valuation of 1912	on b				6711.00
					\$4878.00
EXPENDITURES FO		COMPA	MY'S BOO	Control of the Contro	
El Capitan Reservoir				. \$3002.	00
Conejos				1212.0	00
Poverty Gulch				1687.0	00
Boulder Creek Reservoir & Tule Reservoir				2141.0	00_

TOTAL

VALUATION AND DEFRECIATION DETAIL SHEET (Without Overhead.)

REPRODUCTION COST						DEPR	ECIATION		PRESENT VALUE
Item Q	uantity	Unit	Cost		Yrs. Life	70 A	annual Amt	Total	Present Value
Site for Chocolate Pump.Plant	160	acres	\$6268.						\$6268.
Site for Webster Reservoir	0.14	11	200.						200.
" "- Miles " No.1.	3		1000.						1000.
" " No.2.	1/2	u ;	200.						200.
Right of Way for pipe line from Webster Reservoir	1/4		80.						80.
Right of Way for pipe line between Miles Reservoirs	1	" _	80. \$7828.						37828.
	SI	JUICE GAS	res for D	IVERT	ING DAL				
24" x 24" Steel Gates	1	each	\$198.	2	50	2	\$4.	\$8.	
30" x 30" " "	1	11	269.	2	50	2	5.	11.	
36" x 24" " "	2	11	442.	2	50	2	9.	18.	
Cartage & freight			12.	2	50	2	0		
Installing gates including temporary flume and dam for bypassing water	1	lot	1680.	2	50	2	34.	67.	
			\$2601.				\$52.	\$104.	\$2497. 5

(Without Overhead.)

REPRODUCTION COST						DEPR	ECIATION		PRESENT VALUE
Item	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	% A	nnual Amt	Total	Present Value
	. <u>B</u> C	UIDER CE	REEK MEAS	URING	WEIR.				
Concrete	1	lot	\$120.	2	100	1	\$1.	\$2.	\$118.
Lumber	1	u	15.	2	25	4	1.	1.	14.
Blasting, Excavation, etc	1	11	307.	_ 2	100	1	3.	6.	301.
		1/5	\$442.				\$5.	\$9.	\$433.
	MEASURI	NG STATI	ION BELOW	DIVE	RTING D	AM.			
Concrete	1	18t	\$65.	2	100	1	\$1.	\$1.	\$64.
Cables & Timber Frames	1	17	35.	2	25	4	1.	3.	32.
Labor erecting	1	u	103.	_ 2	25	4	4.	8.	95.
			\$203.				\$6.	\$12.	\$191.
	MEASUF	ING STAT	TION AT C	OLD MI	SSION I	MAG			
Cables	1	lot	\$26.	2	25	4	Şl.	\$2.	\$24.
Bristol Gage	1	each	57.	2	20	5	3.	6.	51.
Erecting	1	lot	100.	2	25	4	4.	8.	92.
			\$183.				\$8.	\$16.	\$167.
				- 3	E				

(Without Overhead.)

REPRODUCTION COST						THE RESERVE AND ADDRESS OF THE PARTY OF THE	ECIATION		PRESENT VALUE
Item	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	%	Annual	Total	Present Value
		LA M	ESA PUME	ING I	LANT				
150 Horse Power G.E.Motor	1	each	\$950.	3	20	5	\$48.	\$143.	\$807.
7" 2 stage B.J.Pump	1	11	596.	0	20	5	30.		596.
Foundation	1	" .	98.	0	20	5	5.		98.
Freight	1	lot	35.	2	20	5	2.	4.	31.
Haul	1	п	35.	2	20	5	1.	3.	22.
Belt	1	each	184.	1	20	5	9.	9.	175.
Suction & discharge pipes	1	lot	101.	1	20	5	5.	5.	96.
Installation	1	11	75.	0	20	5	4.		75.
Pump House	1	each	90.	0	33-1/3	3	3.		90.
General expense	1	lot	163.	1	20	5	8.	8.	155.
			\$2317.				\$115.	\$172.	\$2145.

VAULATION AND DEPRECIATION DETAIL SHEET (Without Overhead.)

REPRODUCTION COS	T						ECIATION		PRESENT VAL	UE
Items	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	%	Annual	Total	Present Val	ue
		CHOCOLATE	CANYON	PUMP1	ING PLANT					
50 Horse Power Gas Engine	1	each	\$1650.	1	20	5	\$83.	\$83.	\$1567.	
4" 3 stage B.J.Pump	1	. "	416.	1	20	.5	21.	21.	395.	
Belt and accessories	1	lot	146.	1	20	5	7.	7.	139.	
Freight and haul	1	u	150.	1	20	5	8.	8.	142.	
Concrete Pump pit	1	each	1375.	1	100	1	14.	14.	1361.	
Roof of pump pit	1	11	160.	1	33-1/3	5.	5.	5.	155.	
Suction and discharge pipe	1	lot	2061.	1	20	5	103.	103.	1958.	
Valves, Specials & fittings	1	ti	236.	1	20	5	12.	12.	224.	
Installing, adjusting and testing engine and pump	1	"	150.	1	20	5	7.	7.	143.	
	FWD		-\$6344.				\$260.	\$260.	\$6084.	

REPRODUCTION	COST					D	EPRECIATION		PRESENT VALUE
Item	Quantit;	y Unit	Cost	Age Yrs.	Life Yrs.	%	Annual	Total	Present Value
		CHOCOLATE	CANYON	PUMPING	PLANT-	-	-Cont'd.		
	Bro't.F'w'd.		\$6344.				\$260.	\$260.	\$6084.
Wells	1	lot	2322.	1	25	4	93.	93.	2229.
Shaft "A"	1	each	549.	1.	25	4	22.	22.	527.
Shaft "B"	1	19	324.	1	25	4	13.	13.	311.
Trench	1		900.	.1	25	4	36.	36.	864.
Timber Gallery	1	17	240.	. 1	25	4	10.	10.	230.
General expense	1	lot	788.	1	25	4	32.	32.	756.
Pump House	1	each	250.	1	33-1/3	3	8.	8.	242.
			\$11717.				\$474.	\$474.	\$11243.

REI	PRODUCTION CO	ST				and the same and the same	RECIATION		PRESENT VALUE
Item PUMPIN	Quantity G PLANT NO.3	Unit - NEAR	Cost	Age Yrs. House	Yrs.	%	Amt.	Total	Present Value
15 H.P.Gas Engine	1	each	\$650.	2	20	5	\$33.	\$65.	\$585.
8" x 8" Dean Triplex pump	1	ш	646.	1	20	5	32.	32.	614.
Freight & Haul	1	lot	114.	1	20	5	6.	6.	108.
Installing, testing and adjusting engine and pump	1	и .	40.	1	20	5	2.	2.	38.
Foundations	1	each	115.	1	20	5	6.	6.	109.
Preparation of site, etc	1	11	113.	1	25	4	5.	5.	108.
Belts, pulleys, valves, etc	1	lot	150.	1	20	5	7.	7.	143.
Suction and discharge pipes	1	n	714.	1	20	5	35.	35.	679.
Wells	1	n	916.	1	25	4	37.	37.	879.
Pump House	1	each	57.	1	33-1/3	3	2.	2.	55.
General Expense	1	lot _	238.	1	25	4	11.	11.	227.
			\$3753.				\$176.	\$208.	\$3545.

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REPRODUCTION COST						DEP	RECIATION		PRESENT VALUE
Item	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	76 A	Amt	Total	Present Value
	PUMPIN	G PLANT	NO.4 BEI	LOW DI	VERTING	MAG			
7 H.P. Gas Engine	1	each	\$410.	5	20	5	\$21.	\$103.	\$307.
51" Single Stage B.J.Ptimp	1 .		68.	1	. 20	5	3.	3.	65.
Preight & Haul	1	lot	33.	3	20	5	2.	.5.	28.
Foundation .	1		92.	. 1	20.	5	5.	5.	87.
	1	each	225.	1	20	5	11.	11.	214.
Belt, Pulleys, suction and discharge pipes, etc.	1	lot	90.	1	20	5	4.	4.	- 86.
Installing, testing and adjusting engine and pump	1		25.	1	20	5	1.	1.	24.
General Expense	1	/" _	62.	1	20	5	3.	3.	59.
			\$1005.				\$40.	\$135.	\$870.

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REPRODUCTION COST						The second second second second second	PRECIATION		PRESENT VALUE
Item	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	76 A	Am t	Total	Present Value
		SAND	CREEK S	BIPHON					
Execution and backfill	2450	ou.yd.	\$1838.	1	100	1	\$18.	\$18.	\$1820.
42" Reinforced concrete pipe installed	1227	lin.ft.	5267.	1	100	1	53.	58.	5214.
Inlet & Outlet structures	2	each _	341.	1	100	1	3.	3.	338.
			\$7446.				\$ 74.	\$74.	\$7372.
		CONC	RETE CON	DUITS					
Excavation			\$2661.	1	100	1	\$27.	\$27.	\$2634.
Reinformed Concrete			4168.	1	100	1	42.	42.	4126.
			\$6829.				\$69.	\$69.	\$6760.

REPROD	UCTION COS	T				A REAL PROPERTY AND ADDRESS.	PRECIATION		PRESENT VALUE
Item	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	70	Annual	Total	Present Value
		SI	FEEL FLUM	ES					
Excavation	1	lot	\$1467.	1	100	1	\$15.	\$15.	\$1452.
Concrete Piers	1		1418.	1	100	1	14.	14.	1404.
Lumber - 2nd. hand	91	MBM	3225.	1	20	5	161.	161.	3064.
Steel flume erected	1	lot	9806.	1	33-1/3	3	294.	294.	9512.
Angles & stiffeners	1	n 4 \	487.	1	20	5	24.	24.	463.
Road construction	1	each_	230. \$16633.	1	100	1	\$510.	\$510.	\$16123.
	#10 S	LINI	NG WOOD I	LUMES					
Preparing flumes for lining	13,355	squares	\$8084.	0	8	121	\$1011.		\$8084.
2 ply Roofing material in place	12,132		30656.	0	8	121	3832.		30656.
Felt, Asphalt and 1 ply Roofing material in place	1,223	"	4831.	0	8	121	604.		4831.
			\$43571.				\$5447.		\$43571.

			-	The collection of the latest	min resource and the contract of the contract	-	and the second s		
	REPRODUCTION	COST					ECIATION		PRESENT VALUE
Item	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	% A	nnual Amt	Total	Present Value
	1	RAISING	SIDE BOAR	EDS OF	FLUMES				
Lumber - 2nd.Hand	83.3	MBM	\$2916.	1	9	11	\$324.	\$324.	\$2592.
	. 89	PRENGTHE	NING FLUM	E STRU	CTURES				
Lumber - 2nd. Hand	69	MBM	\$2415.	1	9	11	\$268.	\$268.	\$2147.
		LANKER	SHIM TUNN	EL LI	ING				
Concrete roof slabs and		11							
backfilling in place	1	lot	\$1124.	1	100	1	\$11.	\$11.	\$1113.
	- 4		17						
	EXCAVA	ATION AT	PORTALS	OF TUI	NEL NO	. 1½			
Excavation	1	lot	\$1080.	1	100	1	\$11.	\$11.	\$1069.

	REPRODUCTION	COST					PRECIATION		PRESENT VALUE
Item	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	%	Annua 1 Amt	Total	Present Value
		<u>H</u>	EASURING	BOXES					
Measuring Boxes	42	each	\$777.	23	26	4	\$30.	\$688.	\$89.
п п	7	u	130.	0	26	4	5.		130.
			\$907.				\$35.	\$688.	\$219.
		1 1	ELEPHONE	LINE					
Poles in place	2.65	MBM	\$1551.	1	33-1/3	3	\$46.	\$46.	\$1505.
Brackets and insulators	3.78	М	150.	1	33-1/3	3	5.	5.	145.
Wire in place	84	CWT	1067.	1	33-1/3	3	32.	32.	1035.
Freight and haul	1	lot_	120. \$2888.	1	33-1/3	3	\$87.	\$87.	116. \$2801.

REPRO	DUCTION COST					- Section administration of the	CIATION		PRESENT	VAL
Item	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	7º Ann	Amt	Total	Present	Val
	PIPE LINES	CONSTRUC	TED BY	CUYAMA	CA WATE	ER COMPA	MA			
Standard Screw Pipe										
1 Inch	160	lin.ft.	\$31.	14	20	5	\$2.	\$22.	\$9.	
	225	1//	44.	. 6	20	5	2.	13.	31.	
	877		170.	0	20	5	9.		170.	
2 Inch	2745		727.	10	20	5	36.	363.	364.	
	8861		2347.	0	20	5	117.		2347.	
3 Inch	1056		406.	10	20	5	20.	203.	203.	
	4014		1541.	0	20	5	97.		1541.	
Valves, Specials & fitt:	ings 5%		263.	6	20	5	14.	85.	178.	
4 in.Cast Iron pipe	24		17.	0	75	1-1/3			17.	
Valves, Specials & fitt	ings 5%		1.	0	75	1-1/3			1.	
	Fwe	1.	\$5547.				\$297.	\$686.	\$4861.	

REPRODUCTION COST						HARM BUT HOS TORNESS BEFORE	MOITAL		PRESENT VALUE
Item	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	% Ann	Amt.	Total	Present Value
	PIPE LINES	CONSTRUC	TED BY	CUYAMACA	WATER	COMPANY	(Go	nt'd.	
Brot.Fwd.			\$5547.				\$297.	\$686.	\$4861.
10" and 12" Cast Iron Pipe									
mostly Valves, Specials		1							
and fittings	51	linft.	459.	0	75	1-1/3	6.		459.
14" Riveted Steel Pipe 14 gage. Spirally wrapped with Malthoid Roofing									
Material, Including Valves, Specials and fittings	15920	lin.ft.	19378.	. 0	33-1/3	3	581.		19378.
16" (Same as 14")	24760		38511.	. 0	33-1/3	3 _	1155.		38511.
			\$63895.				\$2039.	\$686.	\$63209.

REP.	RODUCTION COST			100	770-		CLATION		PRESENT	VALU
Item	Quantity	Unit	Cost	Yrs.	Yrs.	%	amt Amt	Total	Present	Value
Standard Screw	FIFE LIN	ES DONATED	70 001	ARAGA	WATER C	OMPANI				
3/4 Inch	60	lin.ft.	\$11.	16	20	5	\$1.	\$9.	\$2.	
	. 800		147.	14	20	5	7.	103.	44.	
	265		49.	13	20	5	2.	32.	17.	
	1970		362.	11	20	5	18.	199.	163.	
	1476		271.	5	20	5	14.	68.	203.	
	6238	17,53	1144.	1	20	5	57.	57.	1087.	
1 Inch	230		45.	14	20	5	2.	32.	13.	
	650		126.	13	20	5	6.	82.	44.	
	510		99.	11	20	5	5.	54.	45.	
	750		146.	9	20	5	7.	66.	80.	
	355		69.	6	20	5	3.	21.	48.	
	1142		222.	5	20	5	11.	56.	166.	
	1146		223.	4	20	5	11.	47.	176.	
	1243		242.	3	20	5	12.	36.	206.	
	2410 200		469. 39.	1 0	20	5	23.	23.	446.	-
		FWD	\$3664.	(100 H196 50H	of Contracts		\$181.	\$885.	\$2779.	- 3

REPRO	ODUCTION COST	4				Married Control (Spinish)	PRECIATION		PRESENT VALUE
Item	Quantity	Unit	Cost	Age Yrs.		%	Annual Amt.	Total	Present Value
Brot.Fwd.	PIPE LINES	DONATED	\$22534.	AGA W	ATER COMP	ANI-	-Cont'd. \$1125.	\$6148.	\$16386.
Standard Screw									
3 inch	2260	lin.ft.	868.	2	20	5	43.	87.	781.
	2712		1041.	1	20	5	52.	52.	989.
4 inch	670		348.	14	20	5	17.	244.	104.
	1000		520.	4	20	5	26.	104.	416.
	1226		637.	2	20	5	32.	64.	573.
	970		504.	1	20	5	25.	25.	479.
	650		338.	0	20	5	17.		338.
3" O.D. Casing Pipe	300		105.	13	20	5	5.	68.	37.
Specials & fittings for a the above listed pipe 5%		lot _	1345.	6	20	5	67.	404.	941.
		FWD	\$28240.				\$1409.	\$7196.	\$21044.

REPRODUC!	TION COST					MARKET SECTION OF THE PROPERTY AND ADDRESS.	CIATION	P	RESENT VALUE
Item	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	% An	Amt.	Total	Present Val
	PIPE LINES	DONATED T	TO CUYAN	ACA WA	TER CO	IPANY	Cont'd.		
Brot.Fwd.		1	\$28240.				\$1409.	\$7196.	\$21044.
Cast Iron Pipe									
4 inch	1657	lin.ft.	1168.	4	75	1-1/3	16.	62.	1106.
6	7422		7161.	4	75	1-1/3	95.	382.	6779.
Specials, Valves & fitting for Cast Iron pipe 5%	1	lot _	416.	4	. 75	1-1/3	6.	22.	394.
		4	\$36985.				\$1526.	\$7662.	\$29325.
1	TETERS AND SE	ERVICES DO	ONATED T	o CUYA	MACA W	ATER COM	PANY		
3/4" Connection & 5/8" met	ter 242	each	\$3872.	1 .	20	5	\$190.	\$190.	\$3682.
	TERS AND SER	RVICES IN	STATIED.	BY CUY	AMACA I	WATER CO	MPANY		
<u>MCB</u>	and the second	LITOTIO TIL	3 7 5 3 3 4 7 7 7 7	27 007	THE PERSON NAMED IN				
3/4" Connection & 1/2" met		each	\$105.	8	20	5	\$5.	\$42.	\$63.
	er 7 ·				20	5		\$42. 	\$63. 1008.
3/4" Connection & 1/2" met	er 7 · 63	each	\$105.	8	20		\$5.	\$42. 232.	

			R	EPRODU	CTI	ON CO	ST			•	Assessment of the Party of the	PRECIATION		PRESENT VALU
Ite	om					ntity		Cost	Age Yrs.	Life Yrs.		Annual Amt.	Total	Present Valu
				METE	RS	AND S	ERVICES	INSTALLED	BY CI	JYAMACA	WATER	COMPANY	Cont'd,	
		Bro	t.Fwd					\$5689.				\$287.	\$274.	\$5415.
3/4"	Connection	n &	5/8"	Meter	r	13	each	208.	2	20	5	10.	21.	187.
3/4"	"	&	5/8"			10	u _g	160.	4	. 20	5	8.	32.	128.
3/4"		80	5/8"	11		33	п	528.	8	20	5	26.	211.	317.
3/4"	u	86	3/4"			. 1	и	20.	1	20	5	1.	1.	19.
3/4"	11	&	3/4"			17	11	340.	8	20	5	17.	126.	214.
1"		8	1"	11		1	u	26.	1	20	5	1.	1.	25.
1"	"	&	1"	11		96	п	2496.	8	20	5	125.	998.	1498.
12"	"	&	13"0	lisc me	ete	r 29	17	1363.	8	20	5	68.	545.	818.
11"		8	15"0	rest	17	3	п	126.	8	20	5	6.	50.	76.
2"	"	8	2"0	lisc,	u	9	u	612.	8	20	5	31.	255.	357.
2"	11	8	2"0	rest	11	2	n	106.	8	20	5	5.	42.	64.
							FWD	\$11674.				\$585.	\$2556.	\$9118.

	REPRODUCTION	cos	T		Acro	Life		PRECIATION		PRESENT VALUE
Item	Quant	ity	Unit	Cost	Age Yrs.	Yrs.	%	Annual Amt.	Total	Present Val
	METERS AN	D SE	RVICES !	INSTALLED	BY CUY	AMACA I	WATER	COMPANY	Cont'd.	
	Brot.Fwd.			\$11674.				\$585.	\$2556.	\$9118.
3" Connection & 3"	Crest Meter	4	each	392.	8	20	5	20.	157.	235.
4" " & 4"	11 11	4	11	752.	8	20	5	38.	301.	451.
6" Compound Meter		1	п	501.	. 0	20	5	25.	A	501.
10" Crest "		1	11	751.	0	20	5	38.		751.
				\$14070.				\$706.	\$3014.	\$11056.
Deduct meters shown valuation of		,		556.				11.	244.	312.
				\$13514.				\$695.	\$2770.	\$10744.
	WEBSTER	RESE	RVOIR -	DONA TED	TO CUYA	MACA W	ATER C	OMPANY		
Embankment	. 2	300	cu.yd	. \$150.	2	100	1	\$2.	\$4.	\$146.
4 inch Gate Valve		1	each	8.	2	75	1-1/3			8.
				\$158.				\$2.	\$4.	\$154.

REP	RODUCTION COST				Secretary and	married and residence of the control	ECIATION		PRESENT VALUE
Item ·	Quantity	Unit	Cost	Age Yrs.	Life Yrs.	market market and	Amt	Total	Present Value
	MILES RESERVOIR	NO 1 -	DONATED	TO CT	JYAMACA	WATER	COMPANY		
Embankment	4190	cu.yd.	\$1885.	14	100	1	\$19.	\$264.	\$1621.
Riprap	2500	sq.ft.	275.	14	100	1	2.	39.	236.
6" Standard Screw Pipe	175	lin.ft.	137.	14	20	5	7.	96.	41.
6" Gate Valve	1	each	12.	14	75	1	-	2.	10.
Inlet Flue	1	, ,*	30.	14	25	4	1.	17.	13.
Earth Ditch	1	5.11	50.	14	. 50	2	1.	14.	36.
			\$2389.				\$31.	\$432.	\$1957.
	MILES RESERVOIS	R NO 2 -	DONATE	TO C	UYAMACA	WATER	COMPANY		
Embankment	1700	ou.yd.	\$765.	14	100	1	\$8.	\$107.	\$658.
Riprap	7500	sq.ft.	825.	14	100	1	\$8.	\$116.	\$709.
6" Standard Screw Pipe	70	lin.ft.	55.	14	20	5	3.	39.	16.
6" Gate Valve	ı	each	12.	14	75	1-1/3	5	2.	10.
			\$1657.				\$19.	\$264.	\$1393.

REPRODUCTION COST							PRECIATION		PRESENT VAL
Item	Quantity Unit Cost Yrs. Yrs. 7		% A	Amt.	Total	Present Val			
	PUMPING PLANT	NO. 5 -	- DONA TED	TO C	CUYAMACA	WATER	COMPANY		
15 H.P. Gas Engine	1	each	\$650.	14	20	5	\$33.	\$455.	\$195.
7" x 8" Gould Triplex pump	1	11	400.	10	20	5	20.	200.	200.
Freight & Haul	111	lot	74.	13	20	5	4.	48.	26.
Connections & Foundations	1 1	и	100.	13	20	5 .	5.	65.	35.
Pump House Frame	3400	cu.ft.	102.	10	33-1/3	3	3.	31.	71.
			\$1326.				\$65.	\$799.	\$527.

	: With 21% Overhead								
Items	Reprod. Cost	Annual Deprec.	Total Deprec.	Present : Value :	Reprod.	Annual Deprec.	Total Dep.	Present	
	PROPERTIES	PURCHASED	OR CONSTR	UCTED BY TH	E COMPANY				
Lands & Rights of Way	\$6,268.			\$6,268.	\$7,584.			\$7,584.	
Sluice Gates for Diverting D	am 2,601.	52.	104.	2,497.	3,147.	63.	126.	3,021.	
Boulder Creek Measuring Weir	442.	5.	9.	433.	535.	6.	11.	524,	
Measuring Station below Diverting Dam	203.	6.	12.	191.	246.	7.	14.	232.	
Measuring Station at Old Mission Dam	183.	8.	16.	167.	221.	10.	19.	202.	
La Mesa Pumping Plant	2,317.	115.	172.	2,145.	2,804.	139.	208.	2,596.	
Chocolate " "	11,717.	474.	474.	11,243.	14,177.	573.	573.	13,604.	
Pumping Plant No.3	3,753.	176.	208.	3,545.	4,541.	213.	252.	4,289.	
" No.4	1,005.	40.	135.	870.	1,216.	48.	163.	1,053.	
SandCreek Siphon	7,446.	74.	74.	7,372.	9,010.	90.	90.	8,920.	
Concrete Conduits	6,829.	69.	69.	6,760.	8,263.	84.	84.	8,179.	
Steel Flumes	16,633.	510.	510.	16,123.	20,125.	617.	617.	19,508.	
FWD	\$59,397.	\$1,529.	\$1,783.	\$57,614.	\$71,869.	\$1,850.	\$2,157.	\$69,712.	

					: With	21% Ove	erhead	
Items	Reprod. Cost	Annual Deprec.	Total Deprec.	Present Value	: Reprod. : Cost	Annual Deprec.	Total Dep.	Present
1	PROPERTIES	PURCHASED OR	CONSTRUC	TED BY THE	COMPANY-	Cont	d.	
Brot.Fwd.	\$59,397.	\$1,529.	\$1,783.	\$57,614.	\$71,869.	\$1,850.	\$2,157.	\$69,712.
Lining Wood Flumes	43,571.	5,447.		43,571.	. 52,721.	6,591.		52,721.
Raising Side Boards on flume	2,916.	324.	324.	2,592.	3,528.	392.	392.	3,136.
Strengthening Flume structure	es 2,415.	268.	268.	2,147.	2,922.	324.	324.	2,598.
Lankershim Tunnel Lining	1,124.	11.	11.	1,113.	. 1,360.	13.	13.	1,347.
Excavation at Portals of Tunnel No.12	1,080.	11.	11.	1,069.	1,307.	13.	13.	1,294.
Measuring Boxes	907.	35.	688.	219.	1,097.	42.	832.	265.
Telephone Line	2,888.	87.	87.	2,801.	. 3,494.	105.	105.	3,389.
Pipe Lines	63,895.	2,039.	686.	63,209.	77,313.	2,467.	830.	76,483.
Meters & Services	13,514.	695.	2,770.	10,744.	. 16,352.	841.	3,352.	13,000.
Tools, equipment, materials, et	te 4,878.			4,878.	5,902.			5,902.
Investigations for future Reservoirs, etc	8,042.			8,042.	9,731.			9,731.
	\$204,627.	\$10,446.	\$6,628.	\$197,999.	\$247,596.	\$12,638.	\$8,018.	239,578.

		ead	ad					
Items	Reprod. Cost	Annual Deprec.	Total Dep.	Present : Value :	Reprod. Cost	Annual Deprec.	Total Dep.	Present
	PRO	PERTIES D	ONATED TO	THE COMPAN	<u>Y</u>			
Lands & Rights of Way	\$1,560.			\$1,560.	\$1,888.			\$1,888.
Pipe Lines	36,985.	\$1,526.	\$7,662.	29,323.	44,752.	1,846.	9,271.	35,481.
Meters & Services	3,872.	190.	190.	3,682.	4,685.	230.	230.	4,455.
Webster Reservoir	158.	2.	4.	154.	191.	2.	5.	186.
Miles Reservoir No.1	2,389.	31.	432.	1,957.	2,891.	38.	523.	2,368.
" " No.2	1,657.	19.	264.	1,393.	2,005.	23.	319.	1,686
Pumping Plant No.5	1,326.	85.	799.	527.	1,604.	79.	967.	637.
	\$47,947.	\$1,833.	\$9,351.	\$38,596.	\$58,016.	\$2,218.\$	11,315.	\$46,701.

					: With	21% Ove	rhead	
Items	Reprod. Cost	Annual Deprec.	Total Dep.	Present	Reprod.	Annual Deprec.	Total Dep.	Present
Properties purchased or								
constructed by the								
Cuyamaca Water Company								
since June 1st., 1912.	\$204,627.	\$10,446.	\$6,628.	\$197,999.	\$247,596.	\$12,638.	\$8,018.	\$239,578.
Properties acaid to								
Cuyamaca Water Company since June 1st., 1912.	47,947.	1,833.	9,351.	38,596.	58,016.	2,218.	11,315.	46,701.
	252,574.	12,279.	15,979.	236,595.	305,612.	M ,856.	19,333.	286,279.
Properties owned by								

Properties owned by Cuyamaca Water Company on June 1st., 1912, as shown by R.R.Com's Valuation. but corrected to show accrued depreciation

946,518. 18,356.423,775. 522,743.

Grand Totals \$1,252,130.\$33,212\$443,108. \$809,022

Ed Fletcher Papers

1870-1955

MSS.81

Box: 37 Folder: 10

Business Records - Reports - Harroun, Philip E - "Report: Value of the Physical Items of the Property of the Cuyamaca Water Company"



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