

December 7, 1931

San Diego River Project, El Capitan Feature
Rights of way for reservoir and dam
Cuyamaca Water Company.

April 5, 1924, the Cuyamaca Water Company optioned to the
La Mesa, Lemon Grove & Spring Valley Irrigation District

"To deed the El Capitan damsite and all lands
that we control and necessary for the construc-
tion of a dam 160 feet in height. Should the
District or any assignee thereof desire within
10 years from the date hereof to build a dam
to any height in excess of 160 feet, but in no
case higher than 200 feet, then in that event
a deed will be given to the additional land
needed for floodage purposes, which we now
control; also one acre of ground for caretaker's
house; including all records and surveys hereto-
fore made."

On May 4, 1925 an extension was granted on the original
option proffering to the Irrigation District the water works,
Cuyamaca flume and distribution system, no specific mention
being made at this time of the option heretofore specifically
named of the reservoir and damsite lands marked "X" on City
of San Diego's drawing El Capitan Reservoir WD-373.

The option was extended to June 17, 1925, and eventually
exercised, as per record.

We deeded all lands in the following properties:

40 acres marked "A"	SE 1/4 NE 1/4 Sec 7
40 " " "B"	SW 1/4 NW 1/4 Sec 8
40 " " "C"	SE 1/4 NW 1/4 Sec 8
40 " " "D"	SW 1/4 NE 1/4 Sec 8
40 " " "E"	NW 1/4 SE 1/4 Sec 8 except east 1 rod
40 " " "F"	SW 1/4 SE 1/4 Sec 8

All in Township 15 south, Range 2 east.

below elevation 710 reservoir contour 160, based on a dam being
constructed to a height of 160 feet above streambed.

The rest of the property above the 160 foot contour is now
in the name of the Cuyamaca Water Company, of record.

When we deeded this property above described to the Irriga-
tion District on the 22nd day of June 1925, the property was in
the name of Ed Fletcher and Mary C. B. Fletcher and we signed
this deed individually and by the Cuyamaca Water Company, which
was a copartnership, or tenants in common, I do not know which,
by Ed Fletcher surviving partner. That deed was accepted by
the Title Company and certificate of title issued.

Later the balance of the property was deeded to the Cuyamaca
Water Company, a corporation, and so stands today.

When the deed was made on the 22nd day of June 1925, thru
an error of our engineer which escaped our attention at the time
and was only discovered a few days ago, we found that in that
deed above mentioned it included all the lands below elevation
710 and specifically mentioned in the deed all the southeast
quarter of the northeast quarter of Section 7, ^{below 710 contour} while the option
only called for the deeding of the damsite and an acre of ground
adjoining which it was verbally understood would be mutually
satisfactory as to location. In other words, the lands west of
the dam below elevation 710 in the southeast quarter of the
northeast quarter were deeded unintentionally.

"All that portion of the southeast quarter of the northeast
quarter of Section 7; the southwest quarter of the northwest
quarter; the southeast quarter of the northwest quarter; the
southwest quarter of the northeast quarter, the northwest quarter
of the southeast quarter and Lot 3 of Section 8 Township 15 south

Range 2 east S.B.M. lying and being below the 710 foot contour , line above sea level U.S.G.S. datum".

My attorney informs me - has given me a written opinion - first, that lands below elevation 710 and west of the damsite in the southeast quarter of the northeast quarter of Section 7 in reality do not belong to the Irrigation District and we have notified officially the Irrigation District, not once but twice, that they do not own the property, first on November 20, 1931, and second on December 1, 1931.

My attorney also informs me that legally the Irrigation District has no right or ownership in the lands between the 160 foot and the 200 foot contours for the reason that it was a voluntary option on our part, the Irrigation District accepted a portion of that option, consummated the deal and did not ever exercise our offer, by letter or otherwise, to the lands between the 160 foot and the 200 foot contours. In other words, in the opinion of our attorney we are not legally bound to deliver a deed to the land between the 160 foot and the 200 foot contours that would be flooded by the building of El Capitan dam 200 feet in height.

I will have to look up our records of the west half of the northeast quarter of Section 7.

It is my great desire to have no litigation and to effect the compromise in connection with these things so that you may on the 16th day of December 1931, as far as the Cuyamaca Water Company is concerned, take possession of everything we have and I desire to help you in every way possible.

City Attorney C. L. Byers already has in writing an offer from us to sell all of our interest in the west half of the northeast quarter of Section 7, as well as all of our holdings to the east heretofore described, for the sum of thirty-five thousand dollars, or leave the matter to arbitration in the usual manner.

Yours very truly

Ed Fletcher

EF/p



CITY OF SAN DIEGO

SAN DIEGO, CALIFORNIA

WATER DEVELOPMENT DEPARTMENT

HIRAM NEWTON SAVAGE

Hydraulic Engineer in Charge

Offices: 524 F Street

December 9, 1931.

FRED D. PYLE, Engineer

J. W. WILLIAMS, Engineer

R. C. WUESTE, Supervisor

F. M. STANLEY, Accountant

Honorable Ed. Fletcher,
1020 Ninth Avenue,
San Diego, California.

Subject: San Diego River Project, El Capitan
Feature, Rights of Way for Reservoir
and Dam, Cuyamaca Water Company.

My dear Mr. Fletcher:

Enclosed is copy of memorandum submitted by you to
Mr. Savage on December 7, pertaining to rights of way for
El Capitan reservoir and dam, which is being sent to you
in accordance with your understanding with Mr. Savage.

Very truly yours,

F. D. Pyle,
Acting Hydraulic Engineer.

FDP/f
Encl.

COLORADO RIVER PROJECT

Participation of City of San Diego

in

Construction of the All American Canal

In order to insure development and provide for increase in population, it is necessary for the City of San Diego to always have an ample reserve supply of water and to know where and how it can develop or secure water many years in advance of actual need.

Extensive studies have been made of every watershed in San Diego County to determine the extent to which they can be depended upon for future development.

When fully developed, the watersheds of San Dieguito, San Diego, Otay and Cottonwood rivers will produce for the City, in excess of other present demands, sufficient water to bring the total supply available for City use up to about 50 million gallons per day, or sufficient for a population of 500,000.

All studies have led to the one conclusion that, sooner or later, the entire available supply from San Diego County sources will be completely utilized and it will be necessary to secure additional water if the City is to continue to grow.

The Colorado River is the only source of supply available after the local sources are developed.

Preliminary studies have been made to determine the feasibility of securing water from the Colorado River and applications filed with the California Division of Water Resources for 100 million gallons of water per day.

Indications are that Colorado River water may cost somewhat more per thousand gallons delivered to the City of San Diego than water secured from local sources. However, by the time that local sources are developed and water from the Colorado River is required, the increase in population and property values will make it easier to meet the costs.

It is certain that in time the water of the Colorado River will be fully utilized, even to an extent unexpected at this time.

The proposed contract for participation in the construction of the All-American Canal provides for diverting the water from the Colorado River and bringing it about 80 miles to the west side of the Imperial Valley at a point near the International boundary line. Participation in this contract will necessitate the first expenditures by the City for actual construction work leading toward the utilization of the City's right to water from the Colorado River.

The repayment by the City to the Government of the construction cost amounting to about \$450,000 will be spread over a period of 38 years, without interest.

It is estimated that construction payments for the first ten years will not exceed \$65,000. The participation of the City in this contract and the Government's \$30,000,000 construction program will undoubtedly be of material benefit to the business men and to the unemployed of San Diego during the next five or six years.

At one time it was anticipated that the City of San Diego would cooperate with the Los Angeles area in the construction of the Colorado River aqueduct, but the City of San Diego's portion of this cost to deliver water at the west end of San Jacinto tunnel only (Riverside County) would have been in excess of \$10,000,000. This would have necessitated a bond issue for that amount several years ago, depleting all margins for bonds necessarily required from time to time for the development of local sources of water supply and other civic improvements. In addition it would have been necessary to provide a 100 mile conduit from the west end of San Jacinto tunnel to San Diego.

The advantages of the All-American Canal route are:

(a) Very much lower cost on account of participation in the construction of the Imperial Diversion Dam and the 80-mile All-American Canal on basis of about 1.5 per cent construction cost, 38 years to pay construction charges without interest, no bond issue, only ratification of contract with the United States.

(b) Participation in the power development of the All-American Canal which power will be available for pumping and for municipal uses.

(c) Possibility of future participation with the Imperial Irrigation District in the enlargement of existing 55-mile lateral system from the end of the All-American Canal to Kane Springs, about elevation minus 200, or participation in the construction of west side high level pumping lateral, about 52 miles long, to vicinity San Diego County line, elevation about 100, about 16 miles west of Kane Springs.

(d) Possibility of delaying construction from Kane Springs or County line until after local water supplies are fully

developed, by which time the West Mesa area may be developed as a part of the Imperial Irrigation District.

(e) Availability of water at Kane Springs in event that unusual drought conditions should develop at any time regardless of the extent of local development.

(f) The flexibility of the construction program required to bring water from Kane Springs or the County line to San Diego and its adaptability to normal or abnormal conditions, because pipe lines and pumping plants can be installed in a short time and deliver water to the El Capitan Reservoir by way of Julian, elevation 4219.

(g) The possibility of delaying the construction of an about 28-mile tunnel until the amount of water justifies its construction and the elimination of 3200 feet of pump lift.

WATER RIGHTS

The City of San Diego's rights to water from the Colorado River, to be delivered in the Colorado River at the Imperial Diversion Dam, are predicated upon:

Colorado River Compact, dated November 24, 1922

Boulder Canyon Project Act, approved December 21, 1928

Boulder Reservoir Priorities Agreement, dated August 18, 1931

Imperial Contract, dated December 1, 1932

San Diego Water Delivery Contract, dated February 15, 1933

COLORADO RIVER COMPACT

The Colorado River Compact, signed at Santa Fe, New Mexico, November 24, 1922, by representatives of Arizona, California,

Colorado, Nevada, New Mexico, Utah and Wyoming and later ratified by all the States except Arizona as a Six State Compact, apportioned waters of the Colorado River between the States of the Upper Basin and the Lower Basin on a basis of 7,500,000 acre feet per annum to each group for exclusive beneficial consumptive use with the further proviso that the Lower Basin States were given the right to increase their use by 1,000,000 acre feet per annum.

The Upper Basin States consist of those parts of the States of Arizona, Colorado, New Mexico, Utah and Wyoming within and from which waters naturally drain into the Colorado River System above Lee Ferry, and also all parts of said States located without the drainage area of the Colorado River System which are now or shall hereafter be beneficially served by waters diverted from the System above Lee Ferry.

The Lower Basin States consist of those parts of the States of Arizona, California, Nevada, New Mexico and Utah within and from which waters naturally drain into the Colorado River System below Lee Ferry, and also all parts of said States located without the drainage area of the Colorado River System which are now or shall hereafter be beneficially served by waters diverted from the System below Lee Ferry.

Boulder Canyon Project Act

The Boulder Canyon Project Act, approved by the President of the United States December 21, 1928, provides for "The Construction of Works for the protection and development of the Lower Colorado River Basin, for the approval of the Colorado River Compact and other purposes." The works to consist of a dam and appurtenant works in the Colorado River in Boulder Canyon for flood control, water conservation and power development, and the All American Canal.

BOULDER RESERVOIR PRIORITIES AGREEMENT

Upon request by the Secretary of the Interior made to the State of California Division of Water Resources, a Priorities Agreement, dated August 18, 1931, proportions between water users in California was executed by representatives of the:

Palo Verde Irrigation District; Imperial Irrigation District; Coachella County Water District; Metropolitan Water District of Southern California; City of Los Angeles; City of San Diego; County of San Diego.

The priorities agreed upon are as follows:

- (1) Palo Verde Irrigation District gross area 104,500 acres, such water as may be required by such lands.
- (2) Yuma Project, Waters required for gross area in California not exceeding 25,000 acres.
- (3)(a) Imperial Irrigation District and other lands served from the All American Canal in Imperial and Coachella Valleys.
(b) Palo Verde Irrigation District for use on 16,000 acres in Lower Palo Verde Mesa.
Total 3,850,000 acre feet per annum for beneficial consumptive use less priorities under (1) and (2) above.
- (4) Metropolitan Water District of Southern California and/or City of Los Angeles 550,000 acre feet per annum.
- (5) (a) Metropolitan Water District and/or City of Los Angeles 550,000 acre feet per annum.
(b) City of San Diego and/or County of San Diego 112,000 acre feet per annum.
- (6) (a) Imperial Irrigation District and other lands served from the All American Canal in Imperial and Coachella Valleys.
(b) Palo Verde Irrigation District for use on 16,000 acres in Lower Palo Verde Mesa.
Total 300,000 acre feet per annum for beneficial consumptive use.

- (7) All remaining water available for use within California, for agricultural use in the Colorado River Basin in California.
- (8) Metropolitan Water District of Southern California and/or City of Los Angeles shall have exclusive right to divert water accumulated to its credit by reason of reduced diversions, not exceeding at any one time 4,750,000 acre feet in the aggregate (subject to regulations).
- (9) City of San Diego and/or County of San Diego have right to withdraw not exceeding at any one time 250,000 acre feet of water in the aggregate from Boulder Canyon Reservoir accumulated to its credit by reason of reduced diversions (subject to regulations).
- (10) No additional amount of water on account of inclusion of each the Metropolitan Water District of Southern California and the City of Los Angeles.
- (11) No additional amount of water on account of inclusion of each the City of San Diego and the County of San Diego.
- (12) Priorities not affected by dates of execution of water contracts by Secretary of the Interior.

THE IMPERIAL CONTRACT

The Imperial Contract, dated December 1, 1932, between the Imperial Irrigation District and the United States, provides for the construction and operation of the Imperial Diversion Dam, the All American Canal and Appurtenant Structures and for delivery of water to the Imperial Irrigation District and to other agencies.

SAN DIEGO WATER DELIVERY CONTRACT

The San Diego Water Delivery Contract between the United States and the City of San Diego, dated February 15, 1933, contains the following provisions:

- (1) Water to be delivered by the United States to the City at a point immediately above Imperial Diversion Dam.
- (2) Priorities of water to be in accordance with the Boulder Reservoir Priorities Agreement.

- (3) Water to be delivered continuously as far as reasonable diligence will permit and right of City to water subject to the Colorado River Compact.
- (4) Deliveries of water to be in satisfaction with the allocation to the City and County of San Diego and to be used within the County as the City and County may agree.
- (5) Contract for permanent service but subject to becoming null and void if water not taken or diverted within 10 years after completion of Boulder Dam as announced by Secretary of the Interior.
- (6) A charge of 25 cents per acre foot to be made for water delivered to the City.
- (7) Other general and minor provisions.

ALL AMERICAN CANAL PARTICIPATION CONTRACT

In order that the City of San Diego may economically provide for the delivery of its 112,000 acre feet per annum of Colorado River water to the west side of Imperial Valley at a point near the International Boundary Line and at elevation about sea level, it is necessary for the City to participate with the United States in the construction of the Imperial Diversion Dam and the All-American Canal, the construction of which is now being undertaken by the United States, so that the capacity of the works may be increased by 155 cubic feet per second which will be sufficient to carry the City's water.

Honorable Phil D. Swing, acting on behalf of the City of San Diego, negotiated a proposed contract between the United States of America and the City of San Diego whereby the City may participate in the construction and operation of the Imperial Diversion Dam and the All-American Canal.

While the proposed contract is for the benefit of the inhabitants of the City of San Diego, the inhabitants of other cities and communities in San Diego County may hereafter become entitled to the benefits of water conserved in Boulder Reservoir by consent of the City and the Secretary of the Interior.

The total cost of the new construction work is not to exceed \$30,000,000, except for damage due to the existence or operation and maintenance of such works.

The proposed contract provides for the payment by the City of its proportion of the total construction cost of the Imperial Diversion Dam and All-American Canal on a basis of 35 years, without interest, commencing the calendar year next succeeding the

year when all construction work is completed. The annual payments of the City's portion of the total cost to be:

First	5 years	1%
Next	10 years	2%
Next	21 years	3%
Next	3 years	6%

The City's portion of the costs of the various divisions of the Imperial Dam and All-American Canal will depend upon the ratio between the City's 155 cubic feet of water per second and the total capacity of that division, except for capacity provided for the Yuma Project. For the Imperial Dam and the All-American Canal to Siphon Drop it will be about 1.2 per cent; for the last division from the head works of the Brawley main to the headworks of the West Side Main it may be as much as 5 per cent; the average will be about 1.5 per cent.

The City of San Diego is to assume its proportion of the Imperial Irrigation District's obligation made in October 1918 to pay \$1,600,000 in twenty payments as a portion of the cost of the Laguna Dam, which will be abandoned upon completion of the Imperial Dam and the All-American Canal. The Irrigation District to be reimbursed for thirteen payments heretofore made in ten equal annual payments with interest on deferred payments at 6% commencing on or before 1939. These payments will average about \$1,500.00 each.

The City is to complete the payments of its portion of the District's future payments to the United States during the years 1935 to 1941, inclusive, which will require seven payments of about \$1,500.00 each.

Under the proposed contract, the City of San Diego will be responsible to the Imperial Irrigation District for its proportionate

part of the operation and maintenance costs of the Imperial Dam and All-American Canal as may be determined by the Secretary of the Interior, to be equitable and just but not less in amount than the City of San Diego's proportion of its right to relative capacity.

It is estimated that the City's portion of the cost of operation and maintenance will not exceed 1.5 per cent of the total cost of operating and maintaining the works. The costs will commence when the works are put in operation.

Under the proposed contract the City of San Diego will have the privilege of participating with other agencies (Imperial Irrigation District and others) in the power development of the All-American Canal below Siphon Drop in proportion to its relative contribution or obligation toward the capital cost of the works.

As the power development will not be made by the United States it is anticipated that it will be made by the Imperial Irrigation District in which event, if the City of San Diego participates, it may be advisable for the City to enter into a contract with the Imperial Irrigation District for the construction, operation and maintenance of its proportion of the power development and production.

The net proceeds of the operation of the City's portion of power development and sales are to be paid to the United States and credited to the City of San Diego on the contract until it is paid out.

The District's estimates as to amount of power it expects to develop or as to the cost of power development and possible net proceeds are not available at this time.

The City of San Diego's proportion of both the cost of power development and of the net proceeds would be about 1.5 per cent of the total.

The estimated construction costs to the City of San Diego of this work are indicated on Exhibit "A" attached.

The total cost of construction required to bring the Colorado River water to El Capitan Reservoir, with 28 mile tunnel and co-operating with the United States and the Imperial Irrigation District has been estimated at \$20,000,000.

October 11, 1934

Fred D. Pyle
Hydraulic Engineer

COLORADO RIVER PROJECT

SCHEDULE OF ANNUAL CONSTRUCTION PAYMENTS

Estimated on basis of proposed contract for participation
in construction of Imperial Dam and All-American Canal.

Year	Imperial Dam All-American Canal December 31	Laguna Dam United States December 31	District March 1	Total Annual Capital Payments
1935	--	\$ 1,500		\$ 1,500
1936	--	1,500	\$ 1,500	3,000
1937	--	1,500	1,500	3,000
1938	\$ 4,500	1,500	1,500	7,500
1939	4,500	1,500	1,500	7,500
1940	4,500	1,500	1,500	7,500
1941	4,500	1,500	1,500	7,500
1942	4,500		1,500	6,000
1943	9,000		1,500	10,500
1944	9,000		1,500	10,500
1945	9,000		1,500	10,500
1946 to 1952 inclusive	9,000 (7 years)			9,000
1953 to 1973 inclusive	13,500 (21 years)			13,500
1974 to 1975 inclusive	27,000 (2 years)			27,000
Total	\$450,000	\$10,500	\$15,000	\$475,500

The payments for the first 10 years total less than \$85,000,
exclusive of the City's share of operation and maintenance.

No interest is charged except in reimbursing the Irrigation
District for a portion of its previous payments to the United
States.



Offices: 524 F Street

CITY OF SAN DIEGO

WATER DEPARTMENT
DIVISION OF DEVELOPMENT AND CONSERVATION
SAN DIEGO, CALIFORNIA

Fred D. Pyle
- HIRAM NEWTON SAVAGE -
Hydraulic Engineer in Charge

November 20, 1934

Col. Ed Fletcher
1020 Ninth Avenue
San Diego, California.

Subject: Colorado River Project, City of
San Diego's Participation.

Dear Col. Fletcher:

In accordance with our conversation at the Chamber
of Commerce Water Committee meeting November 19, 1934,
enclosed, for your information and files, is copy of the
proposed contract between the United States and the City
of San Diego providing for the City's participation in
the construction of the Imperial Diversion Dam and
All-American Canal; also

Copy of my summary of the proposed contract dated
October 11, 1934, entitled "Colorado River Project,
Participation of City of San Diego in Construction of
the All American Canal", including a schedule of annual
construction payments.

Very truly yours,

Fred D. Pyle
Fred D. Pyle,
Hydraulic Engineer.

FDP/f
Encls. (2)



OFFICES: 524 F STREET

CITY OF SAN DIEGO

WATER DEPARTMENT
DIVISION OF DEVELOPMENT AND CONSERVATION

SAN DIEGO, CALIFORNIA

September 23, 1937

FRED D. PYLE
HYDRAULIC ENGINEER

Mr. Ed Fletcher
1020 Ninth Avenue
San Diego, California.

Subject: Mission Gorge Reservoir Development

My dear Mr. Fletcher:

Receipt is acknowledged of and you have my appreciation for your letter of September 18, 1937 transmitting copies of letters received by you from Mr. Lars Jorgensen relative to the Mission dams and reservoirs, and asking for my reaction.

Mr. Jorgensen says in his letter of July 26, 1937, "Of course when a very wet year was coming, the reservoir could be drawn down beforehand, and we could therefore provide for twice 26,000 acre feet flood control". You, no doubt, appreciate that Mr. Jorgensen with his knowledge of when the wet years are coming puts the ordinary Hydraulic Engineer at a great disadvantage in discussing the relative merits of these two proposed reservoirs.

Mr. Jorgensen's comparison of the two reservoir sites appears to be on the basis of the cost of No. 3 dam only and he evidently concludes that it is not necessary to know the cost of a dam at Mission No. 2 site. I believe that it is necessary to know the cost of each of the two reservoir developments, the net safe yield of each and the extent of the flood control of each before a recommendation could or should be made by a consultant.

I trust that notwithstanding my above facetious remarks, you will favor me with copies of additional letters you may receive from Mr. Jorgensen.

Enclosed is copy of my last letter to Mr. Jorgensen.

Very truly yours,

Fred D. Pyle
Fred D. Pyle
Hydraulic Engineer

FDP/f
encl.

Copy Jorgensen - 9/25

[N.B. FOR JORGENSEN'S
ANSWERS, SEE
JORGENSEN to PYLE
Sept 28, 1937
OCTOBER 13, 1937]

COPY

September 21, 1937

Mr. Lars Jorgensen
Hydro-Electric Engineer
90 El Camino Real
Berkeley, California.

Subject: Mission Reservoir No. 3.

My dear Mr. Jorgensen:

The following information is submitted in accordance with your letter in reference to El Capitan reservoir and San Vicente and Mission reservoir sites dated August 13, 1937 and received September 15, 1937:

El Capitan Reservoir as constructed:

Gauge	Elevation	Capacity Acre Feet	Remarks
197	750	116,500	Spillway crest, no gates
200	753	121,300	
202	755	125,100	
204	757	128,800	
206	759	132,500	
208	761	135,800	
210	763	139,500	
212	765	143,000	
214	767	146,200	
216	769	149,900	
220	773	--	Top of Dam

Spillway discharge with gauge 209 (12 feet deep over 510 foot side channel ogee spillway crest) is 75,000 cubic feet per second. This discharge with impounding above spillway crest is sufficient to control the maximum flood that may be expected once in a thousand years.

San Vicente Reservoir basin:

Gauge	Elevation	Capacity Acre Feet	Remarks
275	735	174,500	Projected spillway crest
280	740	181,000	
285	745	188,300	
290	750	195,600	

Three heights of dams at San Vicente are under contemplation:

- (1) For conservation of local runoff - 175 foot dam, reservoir capacity 75,000 acre feet.
- (2) For conservation of local runoff and water transferred from El Capitan - 275 foot dam, capacity 174,500 acre feet.
- (3) For conservation of local runoff, water transferred from El Capitan and water transferred from Sutherland - 310 foot dam, reservoir capacity 226,000 acre feet.

The lowest points of the railroad and of the paved highway in Mission reservoir basin are located easterly of Santee and at elevation about 360 or 24 feet above the maximum storage level at Mission No. 2 site as recommended for ultimate development by the City's Consulting Board.

I trust that the above information is sufficient for your purposes and that whenever you are in San Diego you will drop in to see me.

Very truly yours,

Fred D. Pyle
Hydraulic Engineer

FDP/f

cc Col. Ed Fletcher ✓

(C O P Y)

August 29, 1939

MEMORANDUM

Subject: Meeting of Water Commission

On August 28, 1939 a meeting of the Water Commission was held in the City Manager's office attended by V. A. Mayrhofer, Chairman, J. M. Anderson and Fred A. Heilbron, members of the Commission, F. A. Rhodes, City Manager, Fred D. Pyle, Hydraulic Engineer and F. M. Stanley, Chief Clerk-Accountant.

Copies of Hydraulic Engineer's letter of August 28, 1939 to the City Manager, subject, "Water Conservation, Purchase of Lands, Policy" were delivered to members of the Board.

It was moved by Anderson, seconded by Heilbron, that the Sutherland bond fund be kept intact for the purposes for which it was originally voted until the next election for financing the San Vicente project at which time the voters should be given the opportunity to transfer the fund to San Vicente to reduce the amount of bonds required for that project.

The following letters and offers of land were considered individually and tabled:

(1) Letter from George W. Marston dated August 4, 1939, to City Manager, offering for \$10,000 25 acres of land located along the shore of Hodges reservoir westerly of Del Dios, originally held by Milton A. McRae, Geo. W. Marston, Ed Fletcher, Mrs. L. C. Coleman, M. T. Gilmore, Miss Ellen B. Scripps, G. A. Davidson, Sefton Investment Co., Mrs. Lilla M. Burnham, F. J. Hansen, Mrs. Florence K. Dupree and Miss Alice Lee.

(2) Memorandum dated August 2, 1939 offering 2270 acres of land adjoining 395 contour of Hodges reservoir for \$34,000 (\$15.00 per acre).

(3) Letter from A. R. Hennold to City Manager dated August 16, 1939 offering 60 acres in San Pasqual Valley for \$4250.

(4) Letter from Ed Fletcher to City Manager dated August 19, 1939 offering to submit a price or to have a conference on the possible sale of White-Yawkey land in the lower San Pasqual Valley.

(5) Letter from J. W. Wiley to City Manager dated August 17, 1939 offering 400 acres in Chocolate Creek valley between Highway 80 and El Capitan reservoir for \$7000.

City Manager Rhodes called the Commission's attention to the report made by Walter W. Cooper and dated August 10, 1939 on the question, "Is the Water Department of the City of San Diego Self Supporting?" Mr. Rhodes advised that he would make copies of the report available to the Commission and to the members of the Fact Finding Committee. The Commission was advised that revisions of the specifications for the Upas Street pipe line to include alternate bids for cast iron pipe, asbestos-cement pipe, concrete reinforced steel pipe and steel pipe were being progressed and would be ready for Council consideration and authorization of call for bids on September 12, 1939.

It was the sense of the Commission that no action should be taken toward placing a bond issue for the San Vicente project on the ballot for the November 7, 1939 election.

Fred D. Pyle, Hydraulic Engineer

November 15, 1939

Mr. Fred Pyle
Hydraulic Engineer
Civic Center
San Diego, California

My dear Fred:

Enclosed find copy of letter, the original being sent to the City Council, and for your information.

We hope to have your cooperation in every way.

With kindest regards,

Sincerely yours,

EF/jv
encl.

Same letter to Fred Rhodes

San Pasqual

November 27, 1939

Mr. Fred Pyle
Hydraulic Engineer
Civic Center
San Diego, California

My dear Mr. Pyle:

I have all the Judsons signed up, the two families of Dyers, Paul Skoog; Roy and Jessie Johnson; Marchus; Peet; Rockwood; Trussell; La Prade; Yawkey; White, the Webbs, and the only two in the Valley who have not signed are Boyle and Georgeson. Georgeson has recently bought the 200 acres up in the bottle neck east of his place.

I paid no attention to the two or three little fellows in the canyon and they can do us no damage any way. I also have an understanding with Henry Fenton but he has not signed up yet.

Does this not cover all of the riparian owners in the San Pasqual Valley? Have you a little map that you can send me immediately as to the different ownerships?

With kindest regards,

Sincerely yours,

EF/jv



ROOM 268
CIVIC CENTER

CITY OF SAN DIEGO

WATER DEPARTMENT
DIVISION OF DEVELOPMENT AND CONSERVATION
SAN DIEGO, CALIFORNIA

FRED D. PYLE
HYDRAULIC ENGINEER

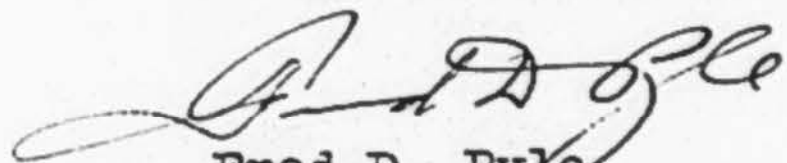
November 30, 1939

Col. Ed Fletcher
1020 Ninth Avenue
San Diego, California

Dear Col. Fletcher:

In accordance with your request of November 27, 1939, I am pleased to furnish you herewith a print of Drawing WD-214 on which is outlined the various ownerships in the San Pasqual Valley on which the City at one time had options.

Very truly yours,


Fred D. Pyle
Hydraulic Engineer

FDP/f
encl.

December 6, 1939

Mr. Fred Pyle,
Hydraulic Engineer
Civic Center
San Diego, California.

My dear Pyle:

Thanks for yours of the 30th of November
regarding various ownerships in San Pasqual Valley. Without
marking them up aga you furnish me with two or three more
of these maps. Send me a bill for same or have them sent to
me and I will pay the bill.

Gratefully yours,

EF 11



ROOM 268
CIVIC CENTER

San Pasqual

CITY OF SAN DIEGO

WATER DEPARTMENT
DIVISION OF DEVELOPMENT AND CONSERVATION
SAN DIEGO, CALIFORNIA

December 8, 1939

FRED D. PYLE
HYDRAULIC ENGINEER

Col. Ed Fletcher
1020 Ninth Avenue
San Diego, California

Dear Colonel Fletcher:

Pleasure is taken in furnishing you three
prints of Drawing WD-214, showing the San Pasqual
Valley lands, in accordance with your request
of December 6, 1939.

Very truly yours,

Fred D. Pyle
Fred D. Pyle
Hydraulic Engineer

FDP/f
encls.

December 22, 1939

Mr. Fred Pyle,
Hydraulic Engineer
City of San Diego,
California.

My dear Mr. Pyle:

Answering your request of the 22d, we will furnish the consent to build Sutherland dam, impound any and all waters originating east of said dam and transfer same to other watersheds, under a form of assignment mutually satisfactory, a suggested form herewith enclosed, covering all lands in San Pasqual Valley, as per list furnished by you, including the following properties:

Ervin and Peter Georgeson -	No. 1 and 4
E. R. Harris	3
Chris G. Marchus	5
Skoog - Johnson	6
L. D. Rockwood	11
Everett Peet	12
Ray Trussell and Trussell Boys	7
L. F. Judson	8
Mary P. Judson	9
Herbert Judson	10
Fenton Ranch	18
Webb Ranch	13 and 14
Fred Dyer	17
W. Dyer	16
Eugene Boyle	22
Ruth La Prade	35
C.C. Yawkey property known as	
Prentice ranch, also	38
Carter - Hickey lands	36 and 37

We have not included the Roberts Ranch, No. 19 because you already have those rights, or should have acquired them from the San Diego County Water Company.

The price to be \$100,000.00. The property owners to furnish a policy of title insurance in the sum of \$100,000 showing legal transfer. The offer to be accepted by January 15, 1940 and the escrow completed at the earliest possible date, in no case later than January 1, 1941.

Yours sincerely,
ED FLETCHER CO. AGENT

EF M

BY

December 22, 1939

Mr. Fred Pyle,
Hydraulic Engineer
San Diego,
California

My dear Fred:

I am enclosing the company's offer, definitely so.

In the last few days I have found that the Webbs have signed an agreement to deliver, but that they cannot deliver except with the approval of the government which has a first mortgage loan. Myars Brothers have a second mortgage. I found out that the government will demand all of the money coming to the Webbs and Myars will not take less than \$2500.00 to give a clear title, so I have got to raise an additional \$2500.00.

In addition to that none of the riparian owners will pay for policy of title insurance and the Ed Fletcher Co. must do that. We may have to buy off one or two others, but we will assume the responsibility and put the deal thru on the original offer.

If there is anything further that you wish, where I can be of service, please let me know.

Yours sincerely,

EF M

I, John Doe,

Ten and no/100 - - - - -

Julia Grab

the right to construct and maintain a dam and reservoir in

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

XX

Section 21, Township 12 South, Range 2 East, S. B. M.
in the County of San Diego, State of California.

Also the right to perpetually collect and impound by and in said dam and reservoir any and all waters of the Santa Ysabel River, and the right to perpetually divert any and all of the said waters so collected and impounded from the watershed of the Santa Ysabel River into other watersheds, the grantor herein being the owner of the following described property, which is located down the stream from Section 21 above described.

ny

December 26, 1939

Mr. Fred Pyle,
Hydraulic Engineer
San Diego, California.

My dear Fred:

Just a word to modify my letter of December 22d: The entire transaction must be closed up by May 1st, 1940 not January 1st, 1941.

The Ed Fletcher Co. is only asking for a five percent commission on the transaction. Anything that we save will be given to the city, under \$100,000.

I have no objection to the city taking it up with any of them and asking for a reduction if you think it necessary or prefer to fight it out in court, but I have them all signed up, and would like to specify the amounts and you can pay the amounts to each party direct if you want and prefer to.

We are getting a policy of title insurance in the sum of \$100,000 to protect the city, if it is all done in one unit. It is more economical also. Handle it either way you see fit.

With kind regards and wishing you the
Compliments of the Season, I am

Yours sincerely,

ED FLETCHER CO.

By

EF M



ROOM 268
CIVIC CENTER

CITY OF SAN DIEGO

WATER DEPARTMENT
DIVISION OF DEVELOPMENT AND CONSERVATION

SAN DIEGO, CALIFORNIA

January 2, 1940

FRED D. PYLE
HYDRAULIC ENGINEER

Col. Ed Fletcher
1020 Ninth Avenue
San Diego, California

Subject: Sutherland Project, San Pasqual
Valley Water Rights

Dear Col. Fletcher:

Receipt is acknowledged of your letter dated December 22, 1939 containing a list of the owners of land in San Pasqual Valley who for a consideration will grant to the City of San Diego the right to construct and operate the Sutherland dam and reservoir and impound and divert to other watersheds all of the waters of the Santa Ysabel River originating above the Sutherland damsite.

It is noted that the above mentioned list does not include the Roberts Ranch which you indicated has already transferred its water rights to the City through the San Dieguito Water Company.

In order that there may be no confusion, it is deemed proper to insist that your offer include the Roberts Ranch before recommendation is made to the City Manager.

Very truly yours,

Fred D. Pyle
Hydraulic Engineer

FDP/f

C O P Y

January 4, 1940

Mr. Fred D. Pyle, Hydraulic Engineer,
City of San Diego
Civic Center
San Diego, California.

My dear Mr. Pyle:

Answering your letter of January 2d, wherein you insist upon inclusion of the Roberts Ranch of 300 or 400 acres in connection with consent to build Sutherland Dam, will say I immediately went out to San Pasqual and secured the following signed agreement:

"City of San Diego
State of California

Gentlemen:

Re Sutherland Dam

Referring to our option of October 3, 1939 to you, in consideration of your paying the Myars family \$2500.00 as per their letter of December 21, 1939, we will include the so-called Roberts Ranch, known as Item No. 19 San Pasqual, as per Map 2250 filed with the City of San Diego, without additional charge. This option to hold good until May 1st, 1940.

(Signed) MARY B. WEBB
E. H. WEBB

So your request, as you see, is hereby granted.

The price of acquiring these water rights you see is increased by \$2500.00. The Myars family owns a second mortgage on the Webb properties consisting of over 1000 acres in the San Pasqual Valley. Myars will not sign off unless they receive that amount, while the government will not sign unless it gets all of the original \$10,500 so in order to clean up the title to all of the Webb holdings it will cost \$13,000. Webbs had coming to them under the old option of purchase \$250,000, and 10 percent of that would have been \$25,000. I feel we have been fortunate in getting the Webbs signed up for \$13,000.

Then again we will have to furnish a policy of title insurance and that money will have to be raised, so I have been working hard, as promised, and have already cut down the following amounts: E. Peet \$500; Ray Trussell \$100.00, Rockwood \$500.00; Mary P. Judson \$500 and hope to get some other reductions to offset the increase in cost. I am still within the \$100,000 I believe.

My suggestion is that I furnish you with a final list of names and the amounts that are due them, and that checks be put in escrow with a title company made payable to each party by the city. I will handle the other end of it for the land owners under my agreement with them. It will probably be more satisfactory to the city to handle it that way than to handle it thru the Ed Fletcher Co. direct. Three or four are insisting that the matter be settled one way or the other by the 15th of January but my option does not expire until the 1st of May. The whole deal must be completed by that date.

Yours sincerely,

(signed) ED FLETCHER

January 15, 1940

Mr. Fred D. Pyle,
Hydraulic Engineer
City of San Diego,
Civic Center
San Diego, California.

My dear Mr. Pyle:

Confirming telephone understanding today, the City of San Diego can get the consent to build Sutherland Dam and divert the waters that originate easterly thereof into other watersheds for the sum set opposite their respective names. We have official letters confirming same, and you may pay the money direct putting same in one escrow and closing the deal simultaneously.

Items 1, 3 and 4, all as per your map representing Ervin and Peter Georgeson, also E. R. Harris		\$8500.00
Item 5 - C. G. Marchus		2750.00
6 - Nellie Skoog		1000.00
7 - Ray Trussell		3840.00
8 - L. P. Judson		4100.00
9 - Mary B. Judson		7500.00
10 - Herbert Judson		7500.00
11 - L. D. Rockwood		3500.00
12 - Everett Peet		3500.00
13 - 14 - 15- 19 Webb Bros (inc. Myers)		13000.00
16 - W. Dyer		500.00
17 - Fred A. Dyer		1500.00
18 - Henry Fenton		25000.00
22 - Eugene Boyle		2730.00
35 - Ruth La Prade		1250.00
36 - 37 and 38 Yawkey property including Prentice, White, and Carter-Hickey		13000.00
		<hr/>
		\$99170.00

The city to pay for the policy of title insurance, or by increasing the price of the Prentice, et al properties from \$13000 to \$13500.00 the policy of title insurance as mentioned in Union Title Company's letter, will be furnished without additional charge. You may put the escrow thru whichever title company you choose. Copy of Union Title Co.'s letter is attached hereto.

A copy of the form of agreement or deed satisfactory to the city attorney should be furnished immediately for the approval of the riparian owners involved. We will be glad to cooperate in every way possible to expedite matters.

Yours sincerely

00.007-23

00-0275

00.0005

١٥٠

Members

1116 5th

2345 Union St.

00.002F

00.0028

00.0000

00.002

00.0021

00.0002

00.0873

00.0751

00.0000

00.071993

The city to pay for the policy of title insurance, or by increasing the price of the license, at all properties from \$13000 to \$13500.00 the policy of title insurance as mentioned in Union Title Company's letter, will be furnished without additional charge. You may put the error that whichever title company you choose. City of Union Title Co.'s letter is attached hereto.

Mr. Fred A. Pyle,
Hydraulic Engineer
City of San Diego,
Civic Center,
San Diego, Calif.

My dear Fred:

I read in the Union this morning that the water commission was now including the right to build Famo or Rodin dams in addition to Sutherland, under our offer to the city. This is entirely out of the question. I have had twelve riparian owners telephone me this morning in protest.

The Pamo-Rodin matter was never even mentioned or thought of in any offer to the city, and under no conditions will the San Pasqual people allow you to build a dam within three or four miles of their property, taking all of the watershed away from them on any such proposition as has been outlined in the building of Sutherland Dam, and acquiring the water that develops easterly and transferring same to other watersheds.

There is no further use of any negotiations if that is the attitude of the water commission, I am sorry to say. I am leaving for Sacramento in a few moments, and if that is the attitude of the water commission we will have to forget it. Would be pleased to hear from you on the subject.

It will be well nigh criminal for the City of San Diego to overlook the opportunity that has been offered them by the property owners regarding the building of Sutherland Dam, and it is almost impossible for me to believe that the city will not take advantage of this remarkably low offer of settlement. It will never be presented again, in my opinion, and now is the psychological moment.

With kindest personal regards, and appreciating your recommendation of the Sutherland offer, as I see by the paper you made. I am

Yours sincerely,

22 23

P. S. to letter to Fred D. Pyle

March 15, 1940

You mentioned sometime ago that possibly the Prentice and Carter-Hickey properties, known as the Yackey-White properties might be purchased outright. As you know, the Prentice contract was for \$125,000, \$25,000 was paid leaving \$100,000 still due on the original option. Just so the Carter-Hickey properties - the purchase price was \$25,000, and \$5,000 was paid, leaving \$20,000 still due, or \$120,000 in all. I am willing to recommend to the Yackey interests that control the above properties that sale be made for \$40,000, or one-third of the old contract price. They have lost 10 or 15 years interest and the payment of taxes as well. Either that or recommend that it be left to arbitration in the usual manner, each to appoint a party, those two a third the decision to be final, but if the matter is left to arbitration this letter should not be produced in evidence. The above is just a suggestion. All interest will be satisfied as soon as a decision is made.

This letter was not written until after Sen. Fletcher had left for Sacramento, so he did not sign personally.

Mr. Fred Pyle
Hydraulic Engineer
Civic Center
San Diego, California

My dear Mr. Pyle:

On my return from Sacramento, I find that \$10,000 has been appropriated to make investigation of three damsites, A-B-D.

I am enclosing map showing contours, elevations and river embracing damsites A-B and D. I am also furnishing you with a map of damsite "A" showing 10 ft. contours and record of the core drillings and test pits; also Pano damsite "B" with a complete record of the core drillings and elevations to solid granite, 13 different core drillings showing location, etc. I am also furnishing you with a survey, elevation and record of core drillings at site "D" showing 13 test pits and 10 core drillings with 5 ft. contours.

I do not know which you call Rodin damsite, but it is either "B" or "D" as I understand it. Site "D" shows the storage at different heights. A 90 ft. dam at site "D" will hold 14,361 acre feet and water will flow by gravity from either of these sites across Linda Vista Mesa to San Diego - the elevation being around 885 to 900 ft. above sea level at the bottom of the dam. This was the original plan of the Linda Vista Irrigation District, surveys were made and copy is available.

This development is a long ways off, 5 or 10 years at least, but the vital thing is to complete San Vicente and acquire the right to complete Sutherland dam and divert the water into San Vicente for a nominal sum. The option expires on the 1st of May 1940 and it is pathetic to see this matter drift. We have too much invested in Sutherland in land and dam - 2 1/2 million dollars at least. The building of Sutherland should be completed at the earliest possible moment once San Vicente is built. Kindly acknowledge receipt of the maps. There is no question about the bedrock at either "B" or "D" site.

Sincerely yours,

ED FLETCHER

EF/jv

cc-Mr. Mayhrofer
Mr. Fred Heilbron
Fred Rhodes



OFFICES - 324 F STREET
ROOM 268
CIVIC CENTER

CITY OF SAN DIEGO

WATER DEPARTMENT
DIVISION OF DEVELOPMENT AND CONSERVATION
SAN DIEGO, CALIFORNIA

April 5, 1940

FRED D. PYLE
HYDRAULIC ENGINEER

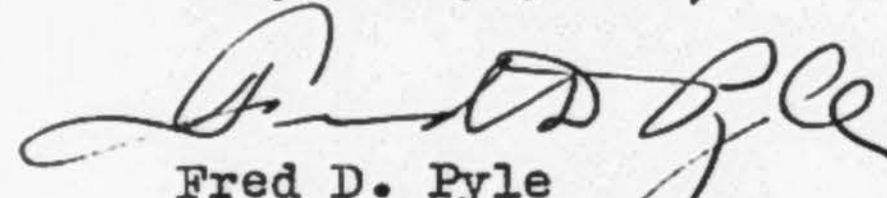
Mr. Ed Fletcher
1020 Ninth Avenue
San Diego, California

My dear Mr. Fletcher:

Receipt is acknowledged of and you have my appreciation for your letter dated March 15, 1940, and your cooperation in making available a number of maps and data concerning records of core drilling and test pits at the various Pamo damsites.

This material will be of considerable help in the study which is about to be undertaken of the San Pasqual Valley lands water rights that may be required in connection with possible water conservation projects along the Santa Ysabel River easterly of San Pasqual Valley.

Very truly yours,


Fred D. Pyle
Hydraulic Engineer

FDP/f

ED JR.

Enclosed find letter from Pyle. Does this survey go through the bottom of No. 2 damsite as well as No. 3? Please see me about it.

E. J.



FRED D. PYLE
HYDRAULIC ENGINEER



WATER DEPARTMENT

DIVISION OF DEVELOPMENT
AND CONSERVATION

ROOM 268

CIVIC CENTER

THE CITY OF SAN DIEGO

SAN DIEGO, CALIFORNIA

April 11, 1942

Docket Calif. 4-140
Water System, San Diego
Unit 8, El Monte Pipe
Line

Colonel Ed Fletcher
1020 Ninth Avenue
San Diego, California

Subject: El Monte Pipe Line

Dear Colonel Fletcher:

Reference is made to your letter dated March 30, 1942 addressed to City Manager Walter W. Cooper in regard to a survey being made through Mission Gorge for a pipe line paralleling the existing El Capitan pipe line.

Considerable study has been made of alternate routes for an additional pipe line 48 inches in diameter from El Monte to Mission Gorge. This pipe line is required to bring additional water to the City from El Capitan reservoir and from San Vicente, when completed. Eventually this pipe line will be extended from El Monte back to El Capitan and from Mission Gorge to the proposed Alvarado filter plant.

Two routes were investigated--one by way of Murray reservoir and one by way of Mission Gorge. The Murray reservoir route had the advantage of keeping away from future reservoir development in Mission Gorge but had the distinct disadvantage of a two mile tunnel and of requiring a larger pipe for the delivery of an equal amount of water to Murray reservoir; also Murray reservoir is subject to growth of many types of algae that often create undesirable tastes and odors in the water which would be very difficult to remedy even with a modern filter plant.

After taking all the factors into account, it was deemed proper to locate the pipe line parallel to the existing El Capitan pipe line through the Gorge. When a reservoir is constructed in Mission Gorge it will be necessary to relocate a certain amount of the highway and eventually a portion of the pipe line, the amount of reconstruction work will depend on the location of the dam.

enclosed is a profile of a portion of the El Capitan pipe line showing the stream bed and the highest practical water level in Mission reservoir when built.

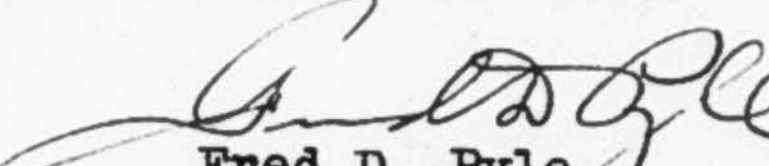
Colonel Ed Fletcher

--2

4/11/42

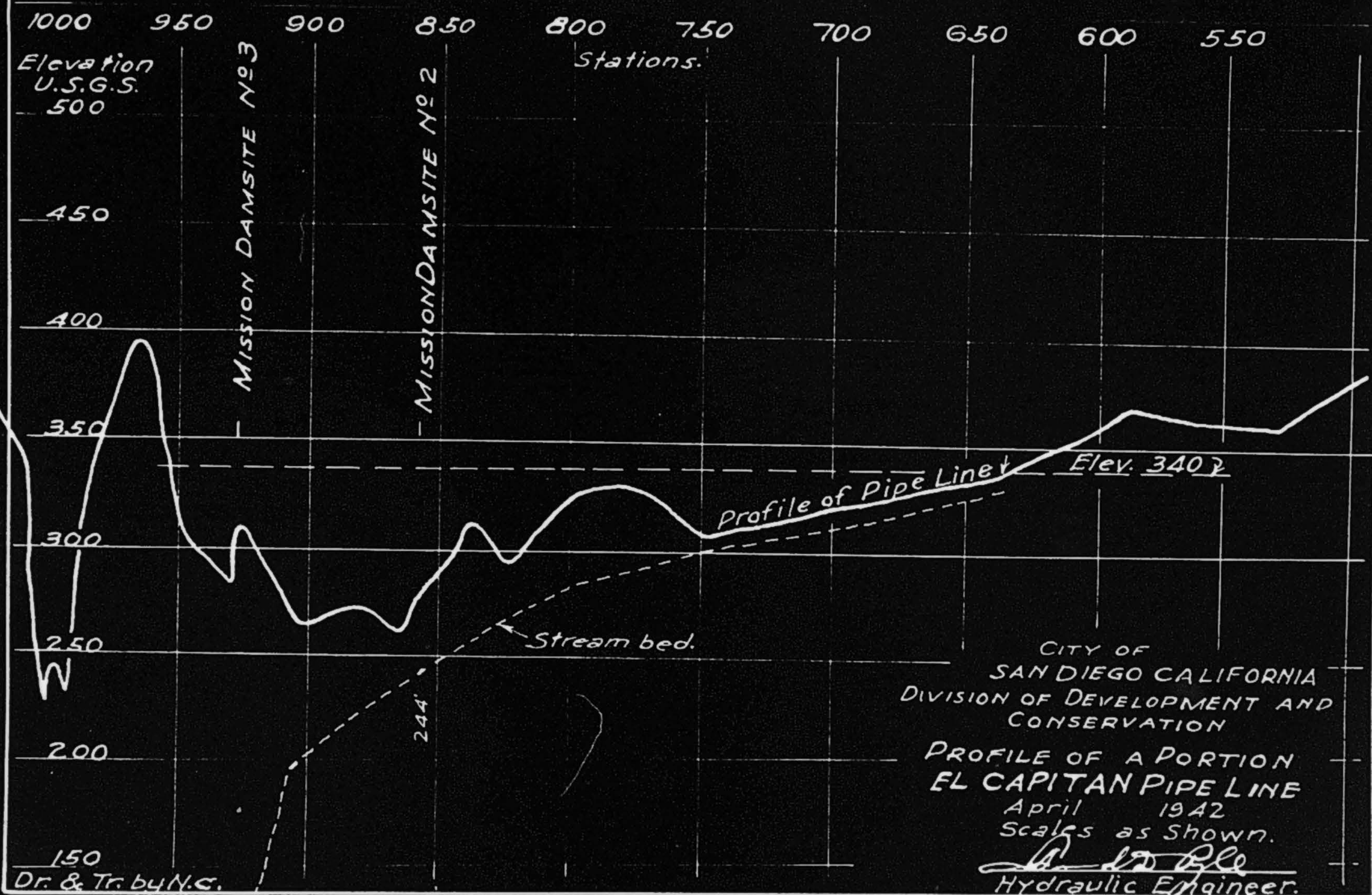
Your constructive interest in this matter is appreciated.

Very truly yours,

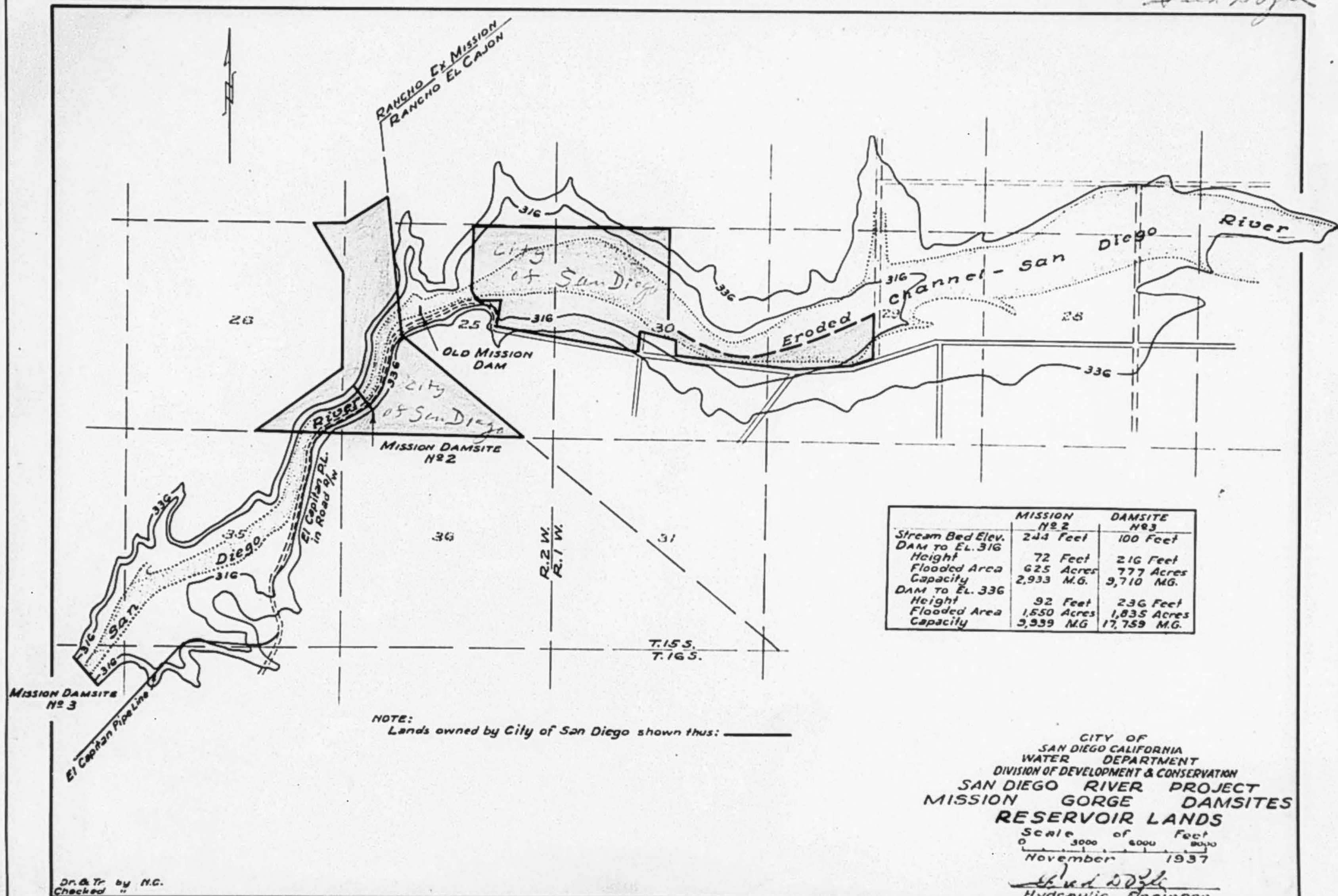

Fred D. Pyle
Hydraulic Engineer

FDP/f
encl. WD-690

cc City Manager



Senator Ed Fletcher -
Compliments of
Lund D. Dyle



	MISSION DAMSITE No. 2	DAMSITE No. 3
Stream Bed Elev. DAM to EL. 316	244 Feet	100 Feet
Height	72 Feet	216 Feet
Flooded Area	625 Acres	777 Acres
Capacity	2,933 M.G.	9,710 M.G.
DAM to EL. 336		
Height	92 Feet	236 Feet
Flooded Area	1,550 Acres	1,835 Acres
Capacity	3,939 M.G.	17,759 M.G.

NOTE:
Lands owned by City of San Diego shown thus: _____

CITY OF
SAN DIEGO CALIFORNIA
WATER DEPARTMENT
DIVISION OF DEVELOPMENT & CONSERVATION
SAN DIEGO RIVER PROJECT
MISSION GORGE DAMSITES
RESERVOIR LANDS

Scale of 3000 Feet
0 3000 6000 9000
November 1937

Lund D. Dyle
Hydraulic Engineer.

WD-599

FILE NO 2405-1, D2

COPY

October 4, 1937

Mr. Lars Jorgensen
Hydro-Electric Engineer
90 El Camino Real
Berkeley, California.

Subject: Mission Gorge Reservoir Development

Dear Mr. Jorgensen:

Receipt is acknowledged of and you have my appreciation for your letter dated September 28, 1937 regarding relative merits of Mission Gorge Reservoirs Nos. 2 and 3 if used for flood control.

In reading your letter carefully and reviewing previous correspondence, I am constrained to the opinion that you may not be familiar with State Division of Water Resources Bulletin No. 48, "San Diego County Investigations, 1935", giving the results of a comprehensive flood control investigation of San Diego River and other streams in San Diego County made by the State in cooperation with San Diego City and County at a cost of \$24,000.

Perusal of Bulletin No. 48 will furnish you valuable information in making a comparison of the two reservoirs for both the safe yield and flood control.

You indicate that the evaporation from Mission No. 2 reservoir will be about 2,000 acre feet more per year than from Mission No. 3 reservoir and then determine the capitalized value of this water to be about \$2,000,000.

In Bulletin No. 48 it is indicated that the mean annual evaporation of Mission Gorge No. 2 reservoir for a period of thirty-nine years would be only 957 acre feet.

I trust that you will find much useful information in Bulletin No. 48.

Very truly yours,

Fred D. Pyle
Hydraulic Engineer

FDP:F

cc Col. Ed Fletcher



ROOM 268
CIVIC CENTER

CITY OF SAN DIEGO

WATER DEPARTMENT
DIVISION OF DEVELOPMENT AND CONSERVATION
SAN DIEGO, CALIFORNIA

January 4, 1943

FRED D. PYLE
HYDRAULIC ENGINEER

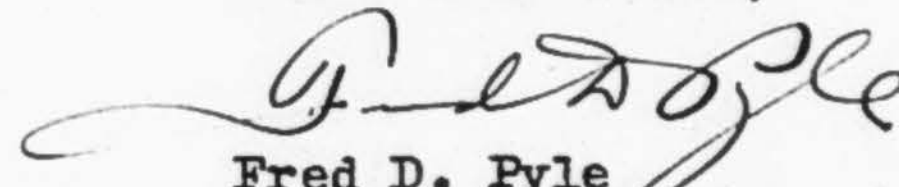
Senator Ed Fletcher
1020 Ninth Avenue
San Diego, California

Dear Senator Fletcher:

Your letter of January 2, 1943 in reference to the water level for storage of 40,000 acre feet of water with the construction of dams at each Mission No. 2 and Mission No. 3 sites received.

According to data interpolated from pages 195 and 205 of State Bulletin No. 48, Mission No. 3 dam would flood to elevation 326.7 and No. 2 dam to elevation 342.2.

Very truly yours,


Fred D. Pyle
Hydraulic Engineer

FDP/f

[orig filed w/ notes to EF]
from E. A. Rhodes.
csm

8 October, 1948

M E M O R A N D U M

Subject: El Capitan Reservoir, Funds
and Purchase of Lands

On November 18, 1924, the voters of San Diego authorized a bond issue of \$4,500,000 for the construction of a masonry dam at El Capitan damsite No. 2, the acquisition of lands and the construction of a pipe line to University Heights. In 1927 the pipe line from Riverview to University Heights was completed.

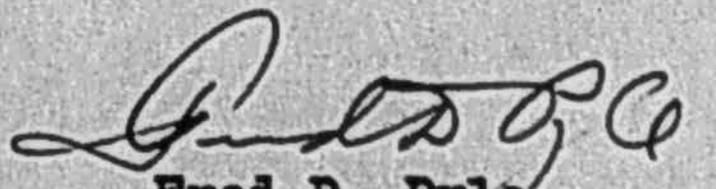
On December 15, 1931, the voters transferred to a fund for the construction of El Capitan dam and pipe line about \$893,870 from savings in the cost of the Otay-San Diego Second Main Pipe Line, and funds provided for the large regulating reservoir at Chollas which construction was made unnecessary by the acquisition of rights by the City to store water in Murray Reservoir.

On December 15, 1931, the voters also approved the change of type of dam at El Capitan site from masonry to a type to be approved by the State Engineer. The original masonry dam was to have been constructed to elevation 713, or 160 feet above streambed, capacity 21,825 million gallons. The hydraulic fill-rock embankment dam was finally constructed at Site No. 2 with spillway elevation 750, or 197 feet above streambed, capacity 37,945 million gallons.

After the establishment of the City's paramount right to the waters of the San Diego River and the decision to proceed with the construction of the enlarged El Capitan Dam, it was found that because of the size and capacity of the spillway required 80 acres of additional lands would be needed west of the dam. Mr. Fletcher was prevailed upon to sell the additional 80 acres to the City, which he did, together with the 186.75 acres that had been under condemnation, for \$40,000.

The San Diego Aqueduct, which takes out of the Metropolitan Districts aqueduct at Hemet at elevation 1505 and delivers water to San Vicente Reservoir at elevation 760, makes it theoretically possible to deliver Colorado River water to El Capitan Reservoir. From a practical point of view, there is little requirement for Colorado River water being stored in El Capitan Reservoir.

At the present time the spillway at San Vicente Dam is at elevation 650, which is 190 feet above streambed. The Dam has been constructed in such a way that it may be ultimately raised so that the spillway would be at elevation 750, or 290 feet above streambed.


Fred D. Pyle
Hydraulic Engineer

Ed Fletcher Papers

1870-1955

MSS.81

Box: 22 Folder: 6

General Correspondence - Pyle, Fred D.



Copyright: UC Regents

Use: This work is available from the UC San Diego Libraries. This digital copy of the work is intended to support research, teaching, and private study.

Constraints: This work is protected by the U.S. Copyright Law (Title 17, U.S.C.). Use of this work beyond that allowed by "fair use" requires written permission of the UC Regents. Permission may be obtained from the UC San Diego Libraries department having custody of the work (<http://libraries.ucsd.edu/collections/mscl/>). Responsibility for obtaining permissions and any use and distribution of this work rests exclusively with the user and not the UC San Diego Libraries.