January 10, 1922

Mr. R. F. Goudey, So. Div. Eng.,
State Board of Health,
821 Pacific Finance Bldg.,
Los Angeles, Calif.

My dear Mr. Goudey:

Regarding algae in Lake Hodges and San Dieguito, under date of December 19th I received from Dr. Dickie, Secretary of the State Board of Health a letter which in part reads as follows:

"I might suggest that, if you purchase a microscope and about $20.00 worth of equipment for either of your engineers, Mr. McFadden or Mr. King, I am sure that Mr. Goudey would be very glad to show him how to make the necessary examinations, which would probably be the most convenient and inexpensive method of procedure for you.

In reply to your inquiry to what extent you can depend upon the State Board of Health for co-operation, I would gladly state that we will be willing to co-operate with you to the limit in order that you may be able to deliver a potable water supply. I hope that you will call on us whenever you think we can be of service to you.

Thanking you for your co-operation, I remain

Yours very truly,
W. M. DICKIE"

Acting on Dr. Dickie's suggestion, would you kindly purchase for our account the microscope and the necessary equipment, and whenever it suits your convenience will you kindly come to Del Mar, at our expense, and give our engineer at Del Mar, Mr. McFadden, so far asposible, the proper information in the matter of blue-stoning and elimination of algae, to meet your requirements. I certainly appreciate your hearty co-operation.

Yours sincerely,

EF:KLM

CALIFORNIA STATE BOARD OF HEALTH
Sacramento

BUREAU OF SANITARY ENGINEERING

Branch Office, Pacific Finance Bldg.,
Los Angeles, Calif.

January 12, 1922.

Mr. Ed Fletcher,
920-8th St.,
San Diego, California.

Dear Mr. Fletcher:

On return to this office I found your letter of January 10, 1922 and Mr. King's letter of January 6, 1922. I feel that you are making a wise move in deciding to handle the question of algae control. This morning I called at the Braun Corporation and obtained the enclosed quotation for you. The first six items are not held in stock by any firm in the West. The Braun Corporation have ordered these items which will arrive at their office in about two weeks. The remaining items they have on hand.

The microscope selected has a ten times magnification in the eye piece and two objectives 16 m.m. and 4 m. m. respectively. The understanding is that you shall order this material from them in accordance with this quotation.

The equipment which I have listed is about a minimum which you can get along with. It might be that later on you may want to add additional equipment. Several items I can lend you temporarily until their use is no longer required.

It will be necessary for you to order the book entitled "Microscopy of Drinking Water" by G. C. Whipple. $4.00. It is suggested as desirable that you also procure Ward & Whipple's book on "Fresh Water Biology", costing $7.00. These books are published by the John Wiley Company, New York. The later book goes more into detail than the former book. Personally I prefer both.

In addition to this equipment it will be necessary to procure about six drinking glasses and a dozen or so quart jars for the collection of samples.

When this equipment reaches you, please notify me and I will make necessary arrangements to spend a sufficient length of time with your engineer to get the work thoroly under way.

Yours very truly,
R. F. GOUDEY
So. Div. Engineer

RFG-H

Original to Mr. Fletcher

QUOTATION
Submitted by

T H E

BRAUN CORPORATION
~~363~~-371 New High St. Los Angeles, January 12, 1922

A. H. THOMAS

Quantity	Article	Cat. No.	Price	Extension
4	Sedgewick Rafter Funnel	9941	1.75 ea	6.00
1 lb.	Berkshire Sand			.16
10 doz.	Bolting Cloth discs	9942		1.50
1	Counting Cell	9943		5.50
1	Cover Slip	9944		.10
1	Ocular Micrometer Disc Whipple	6842		6.25
2	Pipettes, volumetric, 5 cc	8150	.18 ea	.36
1	Washing Bottle, 500 cc.	9825		.60

THE BRAUN CORPORATION

1 doz.	Slides	4339		.15
1 "	Cover Glasses, #1	4339E		.10
1	Spencer Microscope	54B		64.00

QUOTATION
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THE BRAUN CORPORATION

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1 "	Cover Glasses, #1	4339E		.10
1	Spencer Microscope	54B		64.00

January 16, 1922

Mr. R. F. Goudey, Sc. Div. Eng.,
State Board of Health,
Pacific Finance Bldg.,
Los Angeles, Calif.

My dear Goudey:

Answering yours of Jan. 12th, enclosed find copy of letter to McFadden all of which is explanatory.

It is mighty nice of you to help us out in this way, and you may be sure of my 100 percent cooperation.

Yours sincerely,

EF:KLM

Hodges Fault. mcT.

CALIFORNIA STATE BOARD OF HEALTH
BUREAU OF SANITARY ENGINEERING
BERKELEY, CALIFORNIA

COPY

Report on Laboratory Examination of Water

CITY Edl Mar OWNER OF SUPPLY San Dieguito Mutual Water Co.

CLASSIFICATION Water SOURCE Hodges Lake

COLLECTED BY W. D. McFadden, Del Mar, Calif. DATE 3-21-1922
" " " " " "

REPORTED TO Ed. Fletcher, San Diego DATE 4-1-1922

Laboratory No.	Bacteria Per c.c. on Agar	B. Coli Index	Turbidity	Chloride	Alkalinity	Hardness	Color	SAMPLING POINT
S 4332	89	0.0	15					Del Mar Reservoir
S 4333	139	0.25	70					Hodges Lake, near dam
S 4334	122	0.0	15					At City Meter, point of delivery
S 4335	92	0.0	15	62	132			La Jolla Garage, La Jolla

Remarks:

Lake Hodges slightly contaminated.

San Dieguito water safe before chlorination.

Advise that chlorine does be reduced to 3 lb. per m.g.

Chemist and Bacteriologist

Approved: R. F. Goudey (signed)
Director, Bureau of Sanitary Engineering
Southern Division Engineer

READ THE FOLLOWING

The kind and number of bacteria in a water determine its fitness for drinking purposes, from a sanitary standpoint. The other determinations above reported give an indication of the appearance and chemical characteristics, but have little or no relation to healthfulness of the water. These chemical results are expressed in parts per million.

Examinations for specific disease-producing bacteria in water are not made. The laboratory procedure is to make a total count of all bacteria and to look for indications of sewage contamination, as characterized by presence of B. Coli. B. Coli are bacteria that are present in practically all human intestinal discharges and their presence in a water supply consequently makes the supply of questionable safety. The B. Coli Index approximates the number of B. Coli in one cubic centimeter of water (one-fifth teaspoon). A B. Coli Index of 0.1 or more indicates that the water is probably unsafe for drinking purposes.

It is not advisable to base judgment as to the safety of a water on a single examination. A positive opinion should be based only on examinations of repeated samples, or on results of a field inspection by an expert, or on both.

Care in collection of samples and promptness with which they are delivered to the laboratory are of greatest importance as regards reliability of laboratory findings.

2461 3-20 10M

CALIFORNIA STATE BOARD OF HEALTH
BUREAU OF SANITARY ENGINEERING
BERKELEY, CALIFORNIA

Report on Laboratory Examination of Water

CITY Del Mar OWNER OF SUPPLY San Diequito Mutual Water Co.

CLASSIFICATION Water SOURCE Lake Hodges

COLLECTED BY W. D. McFadden DATE 7-18-1922
Witness- Chas. Ogburn.

REPORTED TO " " ", Del Mar, Calif. DATE 7-29-1922

Laboratory No.	Bacteria Per c.c. on Agar	B. Coli Index	Turbidity	Chloride	Alkalinity	Hardness	Color	SAMPLING POINT
S 4740	54	0.0						Raw, Surface of Lake Hodges, near dam.
S 4741	266	0.25						Raw, San Diequito Reservoir, surface, near dam.
S 4742	500	0.0						Treated, La Jolla Garage, La Jolla
S 4743	96	0.0						Treated, City meter

Remarks:

Above examinations indicate chlorination to be satisfactory.

Chemist and Bacteriologist

Approved: R. F. Goudey
Director, Bureau of Sanitary Engineering
Southern Division Engineer

READ THE FOLLOWING

The kind and number of bacteria in a water determine its fitness for drinking purposes, from a sanitary standpoint. The other determinations above reported give an indication of the appearance and chemical characteristics, but have little or no relation to healthfulness of the water. These chemical results are expressed in parts per million.

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2461 3-20 10M

CALIFORNIA STATE BOARD OF HEALTH

BUREAU OF SANITARY ENGINEERING

BERKELEY, CALIFORNIA

210-1

Report on Laboratory Examination of Water

CITY Del Mar OWNER OF SUPPLY San Dieguito Mutual Water Co.

CLASSIFICATION Water SOURCE Lake Hodges

COLLECTED BY Albert W. Juerner, Del Mar, Cal. DATE 9-5-1922

REPORTED TO Ed Fletcher, 920-8th St., San Diego
Wm. McFadden, Del Mark Calif. DATE 9-11-1922

Laboratory No.	Bacteria Per c.c. on Agar	B. Coli Index	Turbidity	Chloride	Alkalinity	Hardness	Color	SAMPLING POINT
S 4923	260	0.06						Del Mar Reservoir
S 4924	17	0.0						Intake of conduit
S 4925	49	0.0						City limits, point of delivery
S 4926	400	0.0						Pitman's Drug Store, La Jolla, Calif.

Remarks:

Note. Water delivered to La Jolla is re-chlorinated at Torrey Pines Reservoir. Dose 4# per million gallons

Above examinations indicate chlorination to be satisfactory.

Chemist and Bacteriologist

Approved: R. F. Goudey
Director, Bureau of Sanitary Engineering
Southern Division Engineer

READ THE FOLLOWING

The kind and number of bacteria in a water determine its fitness for drinking purposes, from a sanitary standpoint. The other determinations above reported give an indication of the appearance and chemical characteristics, but have little or no relation to healthfulness of the water. These chemical results are expressed in parts per million.

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2461 3-20 10M

CALIFORNIA STATE BOARD OF HEALTH

BUREAU OF SANITARY ENGINEERING

BERKELEY, CALIFORNIA

210-1

Report on Laboratory Examination of Water

CITY Del Mar OWNER OF SUPPLY San Dieguito Water Co.

CLASSIFICATION Water SOURCE Lake Hodges Reservoir

COLLECTED BY Albert W. Zuerner, Del Mar, Cal. DATE Oct. [illegible], 1922

REPORTED TO W. D. McFadden, Del Mar, Cal.
Col. Ed. Fletcher, 920-8th St., San Diego DATE 10-14-1922

Laboratory No.	Bacteria Per c.c. on Agar	B. Coli Index	Turbidity	Chloride	Alkalinity	Hardness	Color	SAMPLING POINT
S 5099	0	0.25						Del Mar Reservoir
S 5100	22	0.25						City meter or point of delivery
S 5101	53	0.0						Willard service Station, La Jolla
S 5102	119	0.15						San Dieguito Reservoir,

Remarks:

Results do not show positive improvement through chlorination.

Chemist and Bacteriologist

Approved: R. F. Goudey
Director, Bureau of Sanitary Engineering
Southern Division Engineer

READ THE FOLLOWING

The kind and number of bacteria in a water determine its fitness for drinking purposes, from a sanitary standpoint. The other determinations above reported give an indication of the appearance and chemical characteristics, but have little or no relation to healthfulness of the water. These chemical results are expressed in parts per million.

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2461 3-20 10M

12380 7-21 3M

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REPORT NO. S-97

SANITARY QUALITY OF PROSPECTIVE WATER SUPPLIES FOR BEVERLY HILLS.

October 14, 1922
by
R. F. Goudey, Southern Division Engineer

- - - - - - -

Beverly Hills is now supplied with domestic water by the Rodeo Land and Water Company from sources said to be capable of developing not more than 750,000 gallons per day. The present population of Beverly Hills is about 1800. Within the next five years, a population of 5,000 is expected. Additional water supplies will be needed within five years if the city is to continue its present rate of growth. It is estimated that the ultimate population of Beverly Hills will be about 25,000.

On October 2, 1922 the writer was requested by Mr. P. E. Schwab, City Attorney of Beverly Hills, to make an inspection of the old Union Hollywood Water Company wells and to collect samples from them for bacteriological analyses to determine their fitness for a possible source of supply for the City of Beverly Hills. In the event that this source of supply is suitable and available, the City of Beverly Hills proposes to take over the present water system. A field inspection was made on October 10th, accompanied by Mr. H. D. McKinnon, member of the Board of Trustees, Mr. P. E. Schwab,

City Attorney, and Mr. J. H. Hill, of the local Civic Club.

RESULTS OF INVESTIGATION

The wells, 12 in number, are situated on Tracts 4769, 4912 and 4934, covering 62 acres located just east of Sherman and about two miles northeast of Beverly Hills. The wells were driven at various intervals from 1908 to 1913 to augment the supplies furnished in the Hollywood District by the Union Hollywood Water Company. About eight years ago this water company was supplanted by the Los Angeles Water Department and all wells and pumping stations formerly operated by the Union Hollywood Water Company were abandoned and dismantled. The wells in question were said to be capable of once delivering a maximum of 2,900,000 gallons per day throughout a monthly period.

The tracts on which the wells are located are provided with a sewer system and already fifty houses have been built. The territory east and north of the wells is rapidly being sub-divided. The surface drainage area above the wells is limited to about 1-1/2 square miles, three-fourths of which lies on the southern slope of the Santa Monica mountain range.

The wells are located at an elevation that would require lifting the water against a 245 foot average head to serve the lowest service reservoir in Beverly Hills two miles distant. The higher service reservoirs in Beverly Hills can be supplied by present developed sources. It would appear, therefore, that considerable engineering study should be made to determine the cost of pumping stations and pipe lines, together with their maintenance as compared to the cost of securing gravity water from the City of Los Angeles.

The appended table summarizes the depth and sizes of the different wells, the depths to which they are double cased and the depth at which perforations are first made. It also includes bacteriological results and determinations made of alkalinity, chloride and sulphate contents. Log data for each well have been carefully studied, which in connection with the information above given warrants the following conclusion:

1. Bacteriological analyses indicate the water to be of excellent sanitary quality.

2. Partial chemical tests indicate wide fluctuations.

a. Wells 4, 6, and 11, situated west of Westbourne Drive, show relatively high alkalinity and chloride contents sufficient to class the water as very hard. Well Number 6 contains enough mineral matter to impart a slightly flat taste to the water.

b. Wells east of Westbourne Drive are suitable for domestic purposes although their alkalinity and chloride contents are somewhat higher than Owens River supply.

c. The wide fluctuations in the partial chemical tests indicate that the wells do not penetrate common artesian strata.

3. A study of the logs of the wells indicate that the wells do not penetrate common artesian strata and that the water bearing strata are supplied by seepage in the immediate vicinity.

4. Perforations are made in some of the wells so as to permit surface drainage to enter the wells. This undoubtedly explains the reason why the wells cause a high ground water level in their vicinity and also the reason why formerly, when the wells

were pumped down 70 to 80 feet, the ground water in the immediate vicinity was materially lowered.

CONCLUSIONS

1. Before the City of Beverly Hills makes any definite move toward the securing of these wells for additional water supply, a thorough investigation should be made to determine the condition of the abandoned wells and the advisability of blocking off of strata draining surface water bearing sands.

2. An engineering study should be made to determine the cost of pumping stations, pipe lines and maintenance to pump water from wells to the City of Beverly Hills.

3. In the event that wells 4, 6 and 9 and 11 are to be used, means for aeration and partially softening the supply should be provided.

4. The waters of the wells are now safe from a bacteriological standpoint and can undoubtedly be maintained so if wells are properly developed, even though subdivision without sewer systems are developed on property east and north of the wells.

WEST HOLLYWOOD TRACT WELLS

Well #	Diam. of casing	Depth	Depth of double casing	Shallowest depth of perforations	Bact. results.		Partial Chemical Results		
					Agar Count	B. Coli Index	Alk.	Cl.	Sulphates
1(D)	12"	300	--	--	159	0.25*	270	66	30
2(E)	10"	201	133	49- 53	24	2.0 *	265	68	30
3	16"	456	--	96-107	--	--	--	--	--
4	16"	326	312	31-34	--	--	--	--	--
5(H)	16"	375	375	58-102	0	0.0	275	80	30
6(G)	16"	515	491	80-96	2	0.0	430	280	0
7(J)	16"	408	390	75-85	1	0.0	2 80	42	25
8(F)	16"	410	410	87-93	1	0.0	270	50	25
9(K)	10"	535	429	143-145	1	0.0	330	98	25
10(M)	10"	495	495	161-165	0	0.0	2 95	110	25
11(L)	12"	545	530	77-89	4	0.0	315	190	30
12	12"	651	651	99-101	-	-	--*	--	-
	Los Angeles Owens River Water.				-	-	150	25	30

*Not fair sample, collected from open pit.

Respectfully submitted,

R. F. Goudey

SOUTHERN DIVISION ENGINEER

APPROVED: Ralph Hilscher,
Director.

210-1

October
Sixteenth
1922

Mr. R. F. Goudey,
State Board of Health,
821 Pacific Finance Bldg.,
Los Angeles, Calif.

My dear Mr. Goudey:

You will be glad to know that the City of San Diego has put in a filtration plant, and hereafter all water going to La Jolla will be filtered.

Very sincerely yours,

EF:AH

12380 7-21 3M

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BERKELEY
BRANCH OFFICE, PACIFIC FINANCE BUILDING, LOS ANGELES

210-1

October 20, 1922

Col. Ed Fletcher,
920 - 8th Street,
San Diego, California.

Dear Col. Fletcher:

I have your letter advising that La Jolla water is now being filtered.

I wish to state that I was unable to see Mr. Holmes the day I left you but managed to see him last Wednesday, when I passed through San Diego coming back from Imperial Valley. Mr. Holmes informs me that he will provide the swimming pool with a scum gutter along lines which I suggested to him and that if necessary, will install a filter and circulating system for the pool. He stated, however, that he would not do anything along this line until spring.

I intend to take the matter up again with him later and will advise you of the outcome.

Yours very truly,

R. F. Goudey

R. F. Goudey

Southern Division Engineer

RFG-H

210-1

CALIFORNIA STATE BOARD OF HEALTH

BUREAU OF SANITARY ENGINEERING

BERKELEY, CALIFORNIA

Report on Laboratory Examination of Water

CITY Del Mar OWNER OF SUPPLY San Dieguito Mutual Water Co.

CLASSIFICATION Water SOURCE Lake Hodges

COLLECTED BY W. D. McFadden, Box 53 Del Mar, Cal. DATE Nov. 7, 1922

REPORTED TO Col. Ed. Fletcher, 920 - 8th St., S.D. DATE Nov. 13, 1922

	Laboratory No.	Bacteria Per c.c. on Agar	B. Coli Index	Turbidity	Chloride	Alkalinity	Hardness	Color	SAMPLING POINT
S	5231	110	1.30						San Dieguito Reservoir
S	5232	8	0.0						Hodges conduit
S	5233	78	0.25						Del Mar Reservoir
S	5234	4	0.0						City meter

Remarks:

Above examinations indicate chlorination adequate.

Chemist and Bacteriologist

Approved: R. F. Goudey
Director, Bureau of Sanitary Engineering

Southern Division Engineer

READ THE FOLLOWING

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Care in collection of samples and promptness with which they are delivered to the laboratory are of greatest importance as regards reliability of laboratory findings.

2461 3-20 10M

November
Ninth
1922

Mr. R. F. Goudey,
Southern Division Engineer,
State Board of Health,
Pacific Finance Building,
Los Angeles, California.

My dear Mr. Goudey:

This will introduce Mr. S. H. Woodruff, who will show you the water supply that we have discussed, also take up other matters pertaining to sewerage.

Yours sincerely,

EF:KLM

November
Ninth
1922

File 120-20

Mr. R. F. Goudey,
So. Division Engineer,
State Board of Health,
821 Pacific Finance Building,
Los Angeles, California.

My dear Mr. Goudey:

Confirming our conversation over the telephone today, I thank you for your kindly interest in the West Hollywood sewerage matter.

Will you kindly explain to Mr. S. H. Woodruff what is necessary to be done, if anything.

Confirming our telephone conversation relative to the water supply on the West Hollywood tract, will you kindly make me a report as to what is necessary to protect the supply. Will you kindly take samples from the different wells and analyze same, and in your report indicate each well as to analysis; also a general recommendation as to what should be done to make it of potable quality and available for domestic service. Any expense attached thereto kindly send me bill.

Will you kindly add your personal opinion as to the desirability and availability of this supply if you can conscientiously do so.

With kind personal regards, I am

Sincerely yours,

EF:KLM
Cc Chandler
Woodruff & Houts

12380 7-21 3M

CALIFORNIA STATE BOARD OF HEALTH
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BUREAU OF SANITARY ENGINEERING
RALPH HILSCHER, DIRECTOR
BERKELEY
BRANCH OFFICE, PACIFIC FINANCE BUILDING, LOS ANGELES

November 10, 1922.

Col. Ed Fletcher,
920-8th St.,
San Diego, California.

My dear Mr. Fletcher:

I have your letter of November 9, 1922 in regard to the West Hollywood Water and Sewage questions. I will be glad to take up the matter with Mr. S. H. Woodruff in reference to the sewage disposal question. As stated in our conversation over the telephone, it would be impossible for the State Board of Health to grant a permit. In the event, however, that the plant receive faithful operation and all reasonable attempts are made to prevent odors, the plant can undoubtedly be operated without causing a nuisance for some time. If, however, the plant is in any way neglected, nuisance is bound to result, which would result in suits being brought against the owners of the treatment plant irregardless of whether the owners of the treatment plant had a permit from the State Board of Health. In fact, whenever any nuisance is created at plants having state permits, the permits become automatically void.

It is not clear to me just what the question is in regard to water supply. Some time ago I had occasion to make an inspection and collect samples from the wells of the West Hollywood Tract in reference to the possibility of the City of Beverly Hills acquiring this source of supply. I am sending you a copy of my report dealing with this matter which I believe will answer your questions.

If there is some other well supply that is in question, I would be glad to know about it and collect samples.

With kind personal regards, I am,

Sincerely yours,

R. F. Goudey

R. F. Goudey
Southern Division Engineer

RFG-H

Ed Fletcher Papers

1870-1955

MSS.81

Box: 9 Folder: 16

General Correspondence - Goudey, F.R.

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