

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

DIVISION OF WATER RIGHTS

ORDER

Application 17003 Permit 11320 License _____

**ORDER APPROVING A NEW DEVELOPMENT SCHEDULE
AND AMENDING THE PERMIT**

WHEREAS:

1. Permit 11320 was issued to Alameda County Water District on April 29, 1958 pursuant to Application 17003.
2. A petition for an extension of time within which to develop the project and apply the water to the proposed use has been filed with the State Water Resources Control Board (SWRCB).
3. The permittee has proceeded with diligence and good cause has been shown for said extension of time.
4. Permit Condition 8 pertaining to the continuing authority of the SWRCB should be updated to conform to Section 780(a), Title 23 of the California Code of Regulations.

NOW, THEREFORE, IT IS ORDERED THAT:

1. Condition 9 of the permit be amended to read:

COMPLETE APPLICATION OF THE
WATER TO THE PROPOSED USE
SHALL BE MADE ON OR BEFORE

December 31, 2002

(000009)

2. Condition 8 of the permit be amended to read:

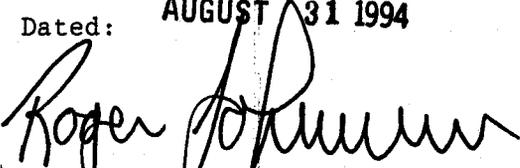
Pursuant to California Water Code Sections 100 and 275, and the common law public trust doctrine, all rights and privileges under this permit and under any license issued pursuant thereto, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water Resources Control Board in accordance with law and in the interest of the public welfare to protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water.

The continuing authority of the Board may be exercised by imposing specific requirements over and above those contained in this permit with a view to eliminating waste of water and to meeting the reasonable water requirements of permittee without unreasonable draft on the source. Permittee may be required to implement a water conservation plan, features of which may include but not necessarily be limited to: (1) reusing or reclaiming the water allocated; (2) using water reclaimed by another entity instead of all or part of the water allocated; (3) restricting diversions so as to eliminate agricultural tailwater or to reduce returnflow; (4) suppressing evaporation losses from water surfaces; (5) controlling phreatophytic growth; and (6) installing, maintaining, and operating efficient water measuring devices to assure compliance with the quantity limitations of this permit and to determine accurately water use as against reasonable water requirements for the authorized project. No action will be taken pursuant to this paragraph unless the Board determines, after notice to affected parties and opportunity for hearing, that such specific requirements are physically and financially feasible and are appropriate to the particular situation.

The continuing authority of the Board also may be exercised by imposing further limitations on the diversion and use of water by the permittee in order to protect public trust uses. No action will be taken pursuant to this paragraph unless the Board determines, after notice to affected parties and opportunity for hearing, that such action is consistent with California Constitution Article X, Section 2; is consistent with the public interest and is necessary to preserve or restore the uses protected by the public trust.

(000012)

Dated: AUGUST 31 1994


Edward C. Anton, Chief
Division of Water Rights

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER RIGHTS

ORDER

APPLICATION 17003

PERMIT 11320

LICENSE _____

ORDER APPROVING A NEW DEVELOPMENT SCHEDULE,
CORRECTING THE NAME OF THE SOURCE
AND AMENDING THE PERMIT

WHEREAS:

1. A petition for extension of time within which to develop the project and apply the water to the proposed use has been filed with the State Water Resources Control Board.
2. The permittee has proceeded with diligence and good cause has been shown for extension of time.
3. The U. S. G. S. 7.5' Quadrangle Map Mendenhall Springs photo revised in 1956 shows the point of diversion as being located on Arroyo Valle. Permit 11320 describes the source as being on Arroyo del Valle. A correction in the description of source under permit 11320 is needed to conform with the quadrangle map.

NOW, THEREFORE, IT IS ORDERED THAT:

1. Paragraph 6 of the permit is amended to read as follows:

CONSTRUCTION WORK SHALL BE
COMPLETED ON OR BEFORE

December 1, 1991

2. Paragraph 7 of the permit is amended to read as follows:

COMPLETE APPLICATION OF THE
WATER TO THE PROPOSED USE
SHALL BE MADE ON OR BEFORE

December 1, 1991

3. The name of the source under this permit is corrected to the following:

Arroyo Valle tributary to Arroyo De La Laguna thence Alameda Creek.

4. Paragraph 8 of this permit is deleted. A new Paragraph 8 is added as follows:

Pursuant to California Water Code Sections 100 and 275, and the public trust doctrine, all rights and privileges under this permit and under any license issued pursuant thereto, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water Resources Control Board in accordance with law and in the interest of the public welfare to protect public trust uses, prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water.

The continuing authority of the Board may be exercised by imposing specific requirements over and above those contained in this permit with a view to minimizing waste of water and to meeting the reasonable water requirements of permittee without unreasonable draft on the source. Permittee may be required to implement such programs as (1) reusing or reclaiming the water allocated; (2) using water reclaimed by another entity instead of all or part of the water allocated; (3) restricting diversions so as to eliminate agricultural tailwater or to reduce return flow; (4) suppressing evaporation losses from water surfaces; (5) controlling phreatophytic growth; and (6) to installing, maintaining, and operating efficient water measuring devices to assure compliance with the quantity limitations of this permit and to determine accurately water use as against reasonable water requirements for the authorized project. No action will be taken pursuant to this paragraph unless the Board determines, after notice to affected parties and opportunity for hearing, that such specific requirements are physically and financially feasible and are appropriate to the particular situation.

The continuing authority of the Board also may be exercised by imposing further limitations on the diversion and use of water by the permittee in order to protect public trust uses. No action will be taken pursuant to this paragraph unless the Board determines, after notice to affected parties and opportunity for hearing, that such action takes into account the public interest and is necessary to protect public trust uses. All such actions shall conform to the standard of reasonableness contained in Article X, Section 2 of the California Constitution.

5. Paragraph 16 is added to this permit as follows:

Permittee shall consult with the Division of Water Rights and the Department of Water Resources, and develop and implement a water conservation plan or actions. The proposed plan or actions shall be presented to the Board for approval within one year from the date of this order or such further time as may, for good cause shown, be allowed by the Board. A progress report on the development of a water conservation plan may be required by the Board within this period.

JUNE 29 1984

Dated:

Raymond Walsh

Raymond Walsh, Chief
Division of Water Rights

STATE OF CALIFORNIA
THE RESOURCES AGENCY
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER RIGHTS

ORDER

APPLICATION 17003

PERMIT 11320

LICENSE _____

**ORDER APPROVING A NEW DEVELOPMENT SCHEDULE,
AND AMENDING PERMIT**

WHEREAS:

1. A petition for extension of time within which to develop the project and apply the water to the proposed use, has been filed with the State Water Resources Control Board.
2. It appears that the permittee has proceeded with diligence and that good cause has been shown for extension of time.
3. The Board has determined that this extension of time will not operate to the injury of any other legal user of water.

NOW, THEREFORE, IT IS ORDERED THAT:

1. A new development schedule is approved as follows:

**CONSTRUCTION WORK SHALL BE COMPLETED ON OR BEFORE DECEMBER 1, 1983.
APPLICATION OF THE WATER TO THE PROPOSED USE SHALL BE COMPLETED ON
OR BEFORE DECEMBER 1, 1986.**

2. Paragraph 8 of the permit be amended to read as follows:

Pursuant to California Water Code Section 100, all rights and privileges under this permit and under any license issued pursuant thereto, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water Resources Control Board in accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water.

This continuing authority of the board may be exercised by imposing specific requirements over and above those contained in this permit with a view to minimizing waste of water and to meeting the reasonable water requirements of permittee without unreasonable draft on the source. Permittee may be required to implement such programs as (1) reusing or reclaiming the water allocated; (2) restricting diversions so as to eliminate agricultural tailwater or to reduce return flow; (3) suppressing evaporation losses from water surfaces; (4) controlling phreatophytic growth; and (5) installing, maintaining, and operating efficient water measuring devices to assure compliance with the quantity limitations of this permit and to determine accurately water use as against reasonable water requirements for the authorized project. No action will be taken pursuant to this paragraph unless the board determines, after notice to affected parties and opportunity for hearing, that such specific requirements are physically and financially feasible and are appropriate to the particular situation.

3. Paragraph 13 to be added to the permit as follows:

The quantity of water diverted under this permit and under any license issued pursuant thereto is subject to modification by the State Water Resources Control Board if, after notice to the permittee and an opportunity for hearing, the Board finds that such modification is necessary to meet water quality objectives in water quality control plans which have been or hereafter may be established or modified pursuant to Division 7 of the Water Code. No action will be taken pursuant to this paragraph unless the Board finds that (1) adequate waste discharge requirements have been prescribed and are in effect with respect to all waste discharges which have any substantial effect upon water quality in the area involved, and (2) the water quality objective cannot be achieved solely through the control of waste discharges.

4. Paragraph 14 be added to the permit as follows:

"Permittee shall, concordant with project operational procedures and objectives, maintain a live, flowing stream in the reaches of Arroyo Del Valle, Arroyo De La Laguna and Alameda Creek from Del Valle Dam to the point of percolation on the Niles Cone downstream from USGS Gauging Station 11-1790 on Alameda Creek near Niles when water stored pursuant to this permit is available."

5. Paragraph 15 be added to the permit as follows:

"Permittee's normal operating procedures are to release water stored pursuant to this permit near Del Valle Dam so that it will flow down Arroyo Del Valle, Arroyo De La Laguna and Alameda Creek into the Niles Cone percolation facilities. Additional operating procedures to meet permittee's needs include transporting Del Valle water in the South Bay Aqueduct for release to Vallecitos Creek and for release to the Mission San Jose Water Treatment Plant. The water released to Vallecitos Creek flows into Arroyo De La Laguna near Sunol and thence in Alameda Creek to the Niles Cone percolation facilities. The above procedures meet the requirements of this permit term."

Dated: DECEMBER 13 1978

Original Signed By
C. L. Whitney

Clint Whitney, Executive Director
Water Rights and Administration

STATE WATER RESOURCES CONTROL BOARD

ROOM 1015, RESOURCES BUILDING
116 NINTH STREET • SACRAMENTO 95814

ORDER WR 74-18

ORDER APPROVING PETITION THAT THE REQUIREMENT TO
MAINTAIN THE UNITED STATES GEOLOGICAL SURVEY
GAGING STATION ON ALAMEDA CREEK
NEAR ALVARADO BE ELIMINATEDApplication 17002
Application 17003Permit 11319
Permit 11320

WHEREAS:

1. On June 21, 1973, a petition was filed on behalf of Alameda County Flood Control and Water Conservation District and Alameda County Water District, owners of Permit 11319 and Permit 11320, asking that the requirement of Term 10 of said permits to maintain the United States Geological Survey gaging station on Alameda Creek near Alvarado be eliminated.
2. The construction of the Alameda Creek Flood Control Channel by the U. S. Corps of Engineers required closing Alameda Creek upstream from the gaging station and bypassing Alameda Creek water through a channel constructed along the original Patterson Creek alignment.

Permits 11319 and 11320
(Applications 17002 and 17003)
Page 2

3. The United States Geological Survey gaging station on Alameda Creek near Alvarado is therefore no longer available to measure the flow of water that passes from the upper gaging stations to San Francisco Bay.

NOW, THEREFORE, IT IS ORDERED that the requirement to maintain the United States Geological Survey gaging station on Alameda Creek near Alvarado be eliminated from Term 10 of Permits 11319 and 11320.

Dated: June 20, 1974

W. W. ADAMS

W. W. Adams, Chairman

RONALD B. ROBIE

Ronald B. Robie, Vice Chairman

ROY E. DODSON

Roy E. Dodson, Member

MRS. CARL H. (JEAN) AUER

Mrs. Carl H. (Jean) Auer, Member

W. DON MAUGHAN

W. Don Maughan, Member

STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER RIGHTSROOM 1140, RESOURCES BUILDING
1416 NINTH STREET • SACRAMENTO 95814

ORDER APPROVING A NEW DEVELOPMENT SCHEDULE

PERMIT 11320

APPLICATION 17003

WHEREAS A PETITION FOR EXTENSION OF TIME WITHIN WHICH TO DEVELOP THE PROJECT AND APPLY THE WATER TO THE PROPOSED USE HAS BEEN FILED WITH THE STATE WATER RESOURCES CONTROL BOARD; AND

WHEREAS IT APPEARS THAT THE PERMITTEE HAS PROCEEDED WITH DILIGENCE AND THAT GOOD CAUSE HAS BEEN SHOWN FOR EXTENSION OF TIME; AND

WHEREAS THE STATE WATER RESOURCES CONTROL BOARD HAS DULY AUTHORIZED THE CHIEF, DIVISION OF WATER RIGHTS TO SIGN THIS ORDER;

NOW THEREFORE IT IS ORDERED THAT A NEW DEVELOPMENT SCHEDULE BE AND THE SAME IS HEREBY APPROVED AS FOLLOWS:

CONSTRUCTION WORK SHALL BE COMPLETED ON OR BEFORE DECEMBER 1, 1973

APPLICATION OF THE WATER TO THE PROPOSED USE SHALL BE COMPLETED ON OR BEFORE DECEMBER 1, 1976

DATED: JUN 10 1971

K. L. Woodward
K. L. WOODWARD, CHIEF
DIVISION OF WATER RIGHTS

STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER RIGHTS
ROOM 1140, RESOURCES BUILDING
1416 NINTH STREET • SACRAMENTO 95814



ORDER ALLOWING CHANGE IN PLACE OF USE

Application 17003

Permit 11320

WHEREAS permittee and the State Department of Water Resources have executed a contract dated November 13, 1969, for local water storage and for other purposes, and

WHEREAS said contract provides for an exchange of water naturally flowing in Arroyo del Valle authorized for appropriation under Permit 11320 for water diverted from the Sacramento-San Joaquin River Delta through the South Bay Aqueduct so that some Arroyo del Valle water may be conveyed through the South Bay Aqueduct for use in supplying the Department's contractors, including those in Santa Clara County; and

WHEREAS permittee on September 5, 1969, petitioned for change in place of use under Permit 11320 so as to add the entire service area of the South Bay Aqueduct to the presently authorized place of use, and in this manner conform its permit to the contract, and

WHEREAS it appears that the change will not operate to the injury of any other legal user of water; and

WHEREAS the State Water Resources Control Board has duly authorized the Chief, Division of Water Rights, to sign this order after review of the petition for change by the Board's Water Rights Committee, and said committee has reviewed and approved said petition;

NOW THEREFORE IT IS ORDERED that permission be and the same is hereby granted to change the place of use under said Application 17003, Permit 11320, to a place of use described as follows, to wit;

THE ENTIRE SERVICE AREA OF THE SOUTH BAY AQUEDUCT OF THE STATE DEPARTMENT OF WATER RESOURCES COMPRISING THE SERVICE AREAS OF SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT (WHICH INCLUDES ALL OF SANTA CLARA COUNTY), ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7 AND ALAMEDA COUNTY WATER DISTRICT, ALL WITHIN T1S TO T12S, R7E TO R3W, MDB&M.

Dated: MAY 27 1971

K. L. Woodward
K. L. Woodward, Chief
Division of Water Rights

STATE OF CALIFORNIA
STATE WATER RIGHTS BOARD

In the Matter of Permit 11319,
Application 17002,
Pleasanton Township County Water District
and
Permit 11320, Application 17003,
Alameda County Water District,
Permittees.

Source: Arroyo
del Valle

County: Alameda

ADOPTED MAR 6 '61

ORDER AMENDING CONDITION NO. 10 OF
PERMITS NOS. 11319 and 11320

The subject permits having been issued on March 31, 1958, to Pleasanton Township County Water District and Alameda County Water District, respectively, upon a condition requiring installation of gaging stations and the obtaining of daily records of discharge at designated locations on Arroyo de la Laguna; stream-flow measurements having been made between 1958 and 1960 by United States Geological Survey pursuant to a contract with the permittees; the information thus obtained being adequate without need for further measurement of discharge on Arroyo de la Laguna; and upon the recommendation of the staff engineering geologist that the gaging stations are not needed, the Board concludes that Condition No. 10 of Permits 11319 and 11320 should be modified to eliminate said gaging stations.

NOW, THEREFORE, IT IS ORDERED that subparagraph d, Condition 10, in Permit 11319, Application 17002, and Permit 11320, Application 17003, be, and the same is, amended by deleting the gaging stations at "Arroyo de la Laguna at Verona Bridge" and "Arroyo de la Laguna near Sunol."

Adopted as the order of the State Water Rights Board at a meeting duly called and held at Sacramento, California, this 6 day of March, 1961.



Kent Silverthorne
Kent Silverthorne, Chairman

W. P. Rowe
W. P. Rowe, Member

Ralph J. McGill
Ralph J. McGill, Member

STATE OF CALIFORNIA—STATE WATER RIGHTS BOARD

Application No. 17003 Filed April 16, 1956 at 11:39 A.M.

(Applicant must not fill in the above blanks)

APPLICATION TO APPROPRIATE UNAPPROPRIATED WATER

I, Alameda County Water District
Name of applicant
of P. O. Box 326, Centerville County of Alameda
Address
State of California, do hereby make application for a permit to appropriate the

following described unappropriated waters of the State of California, *SUBJECT TO VESTED RIGHTS*:

Source, Amount, Use and Location of Diversion Works

1. The source of the proposed appropriation is Arroyo del Valle
Give name of stream, lake, etc., if named; if unnamed state nature of source and that it is unnamed
located in Alameda County, tributary to Alameda Creek

2. The amount of water which applicant desires to appropriate under this application is as follows:

(a) For diversion to be directly applied to beneficial use _____ cubic feet per
1 cubic foot per second equals 40 statute miner's inches or 646,317 gallons per day
second, to be diverted from _____ to _____ of each year.
Beginning date Closing date

(b) For diversion to be stored and later applied to beneficial use 60,000* acre-feet
1 acre-foot equals 325,851 gallons
per annum, to be collected between January 1 and December 31 of each season.
Beginning date Closing date

NOTE.—Answer (a) or (b) or both (a) and (b) as may be necessary. If amount under (a) is less than .025 cubic foot per second, state in gallons per day. Neither the amount nor the season may be increased after application is filed. If underground storage is proposed a special supplemental form will be supplied by the State Water Rights Board upon request.

*surface and/or underground storage
3. The use to which the water is to be applied is see supplement
Domestic, irrigation, power, municipal, mining, industrial, recreational
_____ purposes.

4. The point of diversion is to be located N 27°10' E 3250 feet from the SW corner Section
State bearing and distance or coordinate distances from section or quarter section corner
3, T4S, R2E, MDB&M

being within the SE $\frac{1}{4}$ of NW $\frac{1}{4}$ See supplement for points of redirection.
State 40-acre subdivision of public land survey or projection thereof
of Section 3, T. 4S, R. 2E, MD B. & M., in the County of Alameda
see supplement

5. The main conduit terminates in _____ of Sec. _____, T. _____, R. _____, _____ B. & M.
State 40-acre subdivision of U. S. Government survey or projection thereof

Description of Diversion Works

NOTE.—An application cannot be approved for an amount grossly in excess of the estimated capacity of the diversion works.

6. Intake or Headworks (fill only those blanks which apply)

(a) Diversion will be made by pumping from _____
Sump, offset wall, unobstructed channel, etc.

(b) Diversion will be by gravity, the diverting dam being _____ feet in height (stream bed to level of overflow); _____ feet long on top; and constructed of _____
Concrete, earth, brush, etc.

(c) The storage dam will be 154 feet in height (stream bed to overflow level); 773 feet long on top; have a freeboard of 7 feet, and be constructed of earth
Concrete, earth, etc.

7. Storage Reservoir Sanatorium Reservoir See supplement
Name
Sections 2, 3, 10, 11, 12, 13 and 14, T4S, R2E, MDB&M
The storage reservoir will flood lands in Sections 18 and 19, T4S, R3E, MDB&M
Indicate section or sections, also 40-acre subdivisions unless shown upon map

It will have a surface area of 730 acres, and a capacity of 45,000 acre-feet.

In case of insufficient space for answers in form, attach extra sheets at top of page 3 and cross reference.

8. Conduit Systems (describe main conduit only)

see supplement

(a) Canal, ditch, flume: Width on top (at water line) _____ feet; width at bottom _____

Cross out two not used

feet; depth of water _____ feet; length _____ feet; grade _____ feet per 1,000 feet; materials

of construction _____

Earth, rock, timber, etc.

(b) Pipe line: Diameter _____ inches; length _____ feet; grade _____ feet per

1,000 feet; total ^{fall}/_{lift} from intake to outlet _____ feet; kind _____

Riveted steel, concrete, wood-stave, etc.

NOTE.—If a combination of different sizes or kinds of conduit is to be used, attach extra sheets with complete description, also show location of each clearly on map.

9. The estimated capacity of the diversion conduit or pumping plant proposed is see supplement
State cubic feet per second or gallons per minute

The estimated cost of the diversion works proposed is \$8,525,000.00
Give only cost of intake, or headworks, pumps, storage reservoirs and main conduits described herein

Completion Schedule

10. Construction work will begin on or before July 1, 1957

Construction work will be completed on or before October 1, 1960

The water will be completely applied to the proposed use on or before July 1, 1970

Description of Proposed Use

11. Place of Use. 18,100 acres within a gross area of 59,000 acres within Alameda

State 40-acre subdivisions of the public land survey. If area is unsurveyed indicate the location as if lines of the public land

County Water District as shown on accompanying map; being within Townships 3, 4
survey were projected. In the case of irrigation use state the number of acres to be irrigated in each 40-acre tract, if space permits. If space does not permit listing of all
and 5S, Ranges 1, 2 and 3W, MDB&M.

40-acre tracts, describe area in a general way and show detail upon map.

Do(es) applicant(s) own the land whereon use of water will be made? _____ Jointly? _____
Yes or No Yes or No

If applicant does not own land whereon use of water will be made, give name and address of owner and state what arrangements have been made with him.

12. Other Rights. Describe all rights except those on file with the State Water Rights Board under which water is served to the above named lands. see supplement

Nature of Right <small>(riparian, appropriative, purchased water, etc.)</small>	Year of First Use	Use made in recent years <small>including amount if known</small>	Season of Use	Source of Other Supply
1. _____				
2. _____				
3. _____				
4. _____				

Attach supplement at top of page 3 if necessary. (see supplement)

13. Irrigation Use. The area to be irrigated is 15,000 acres.
State net acreage to be irrigated

The segregation of acreage as to crops is as follows: Rice 0 acres; alfalfa 1500 acres;

orchard 3500 acres; general crops 8000 acres; pasture 2000 acres.

NOTE.—Care should be taken that the various statements as to acreage are consistent with each other, with the statement in Paragraph 11, and with the map.

The irrigation season will begin about April 1 and end about October 1
Beginning date Closing date

14. Power Use. The total fall to be utilized is _____ feet.
Difference between nozzle or draft tube water level and first free water surface above

The maximum amount of water to be used through the penstock is _____ cubic feet per second.

The maximum theoretical horsepower capable of being generated by the works is _____ horsepower.
Second feet X fall + 5.5

The use to which the power is to be applied is _____
For distribution and sale or private use, etc.

The nature of the works by means of which power is to be developed is _____
Turbine, Pelton wheel, etc.

The size of the nozzle to be used is _____ inches.

The water ^{will}/_{will not} be returned to _____ in _____ of
Name stream State 40-acre subdivision

Sec. _____, T. _____, R. _____, B. & M.

SUPPLEMENT

3. The use to which the water is to be applied

The portion of the water which is to be used directly from storage will be used for municipal and domestic purposes. The portion of the stored water that will be rediverted into underground storage will be comingled with other waters flowing into the basin that generally underlies the Alameda County Water District and will be subject to extraction by any and all parties operating wells in the basin. These extractions are used for municipal, domestic, irrigation, industrial, and recreational purposes.

4. The point of diversion is to be located.

A portion of the water may be later released from storage and conveyed by a pipe and tunnel conduit system to the District for distribution and use. The remainder is to be released into the Arroyo del Valle to flow down the natural channel of the Arroyo del Valle, thence Arroyo de la Laguna, thence Alameda Creek to a point N 790W 4300 feet from the southeast corner Section 15 T4S R1W MDB&M being within the SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of said Section 15. From this point the water will be rediverted into the underground basin for storage.

5. The main conduit terminated in

NW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 25 T4S R1W MDB& M for water used directly in the District and in SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 15 T4S R1W MDB&M for water rediverted into the underground basin.

7. Water to be stored initially in Sanatorium Reservoir and later released and either used or rediverted to storage in the underground basin generally underlying the Alameda County Water District.

SUPPLEMENT

8. Conduit System

Pipelines

Diameter	48"	48"	48"
Length	11,865 Ft.	39,449 Ft.	1601 Ft.
Grade	1.6 ft/1000 ft	1.6	1.6 ft/1000 ft.
Total fall	19 ft.	63 ft.	3 ft.
Kind	Concrete	Concrete	Concrete

Canal

Width on top (at water line)	27.7 ft.
Width at bottom	8 ft.
Depth of water	6.56 ft.
Length	7415 ft.
Grade	0.0004
Materials	Concrete lined

Tunnels

D (Horseshoe Type)	8 ft.
Depth of water	6.56 ft.
Length	3400 ft. & 1314 ft.
Grade	1.5 ft/1000 ft.
Total drop	5.1 ft & 2.0 ft.
Materials	Concrete lined

9. The estimated capacity of the conduit is

Pipelines	50 Cfs
Canal	350 "
Tunnel	350 "

12. Other Rights

	<u>1</u>	<u>2</u>
Nature of Right	Purchased Water	Riparian & Appropriative
Year of First Use	1938	1900
Use made in recent years	Municipal 710 ac. ft.	Irrigation 23,000 ac.ft. Industrial 6,000 ac.ft. Municipal 1,830 ac.ft.
Season of Use	Entire Year	Irrig.- May 1 to Oct. 1 Entire Year Year
Source of Other Supply	San Francisco Water Department Alameda Cr., Tuolumme R.	Munic.& Indust. Entire/ Ground Water Basin

13. Irrigation Use

15,000 acres presently irrigated in District from groundwater basin utilizing a total of about 23,000 acre feet, or about 73% of all groundwater pumped. This acreage and demand is expected to gradually decrease as urbanization increases until it will be negligible by the year 2000.

15. Municipal Use

At present there is about 2650 acres of land developed or in the process of being developed for urban purposes, and about 450 acres being used for industrial purposes. This area is now using about 9130 acre feet per year, 700 acre feet of which is imported, and the rest coming from the groundwater basin. It is expected to grow at the following rates:

<u>Year</u>	<u>Population</u>	<u>Ave. Daily Max. Month</u>	<u>Ave. Day</u>	<u>Annual Use</u>
1956	31,000	10.5 M6D	8.1 M6D	9130 Ac. Ft.
1960	61,000	17.6 "	13.5 "	15,300 " "
1965	114,000	28.4 "	21.8 "	24,700 " "
1970	152,000	39.4 "	30.3 "	34,200 " "

The present overdraft on the groundwater basin is estimated to be about 18,000 acre feet per year so that the average new yield of 13,200 acre feet per year from the project proposed in this application will be completely utilized immediately after construction. It is estimated that it will take almost to 1970 for all this new water to be used exclusively for municipal purposes.

SUPPLEMENTAL INFORMATION - UNDERGROUND STORAGE

State locations where water will be diverted to underground storage in stream channels or points at which water will be diverted into conduits leading to spreading grounds See Below
*See footnote

being within the _____ of the _____ of Section _____, T _____, R _____, _____

State amount of water to be diverted to underground storage at each location:

(a) Maximum annual amount 60,000 acre-feet. (b) Maximum rate of diversion 400 c.f.s.

Describe works used to divert water to offstream spreading grounds:

(a) Diversion will be made by pumping from old gravel pit adjacent to stream
Sump, offset well, unobstructed channel, etc.

(b) Diversion will be made by gravity, the diverting dam being _____ feet in height (streambed to over-

flow level); _____ feet long on top; and constructed of _____

Describe conduit used to convey water to offstream spreading grounds:

(a) Canal, ditch, flume: Width at water line 19.5 feet; width at bottom 6 feet; length 7,100 feet; grade 1.0 feet per 1000 feet; materials of construction unlined

(b) Pipe line: Diameter _____ inches; length _____ feet; grade _____ feet per 1000 feet; total fall from intake to outlet _____ feet; kind _____

Estimated capacity of conduit to spreading grounds 100 (2-200 cfs canals) cubic feet per second.

Describe spreading grounds: Location Sec. 24 T4S R2W MDB&M
Portions of Sec. 15, 17, 18, 19, 21 & 22 T4S R1W MDB&M
State _____ acre tracts of public land survey or projections thereof
200 acres within a gross area of 600 acres.
area _____ acres. Type of material Gravels; total infiltration capacity 200 to 400 cfs
to Loams c.f.s.

Describe spreading operation: Water will be distributed through canals to spreading ponds and gravel pits at various points within percolation area.
Location of spreading ponds may be varied from year to year to coordinate with gravel mining and agricultural enterprises in area.

Describe underground reservoirs: Location Area underlying District plus Sections 28, 34 T3S
State sections of public land survey or projections thereof R2W MDB&M
Underground reservoir is hydraulically connected to all groundwater basins
projected surface area 64,000 acres; storage capacity 33,000 ac. ft. in South Bay Area.
(above sea level)

State location of points of measurement of water to underground storage SW 1/4 of SW 1/4
NE SE

Section 15, T 4S, R 1W, MD BM.
20 4S 1W

State method of measurement of water to underground storage Recording stream gauge and Parschall flumes at canal head.

* Give ties to upstream and downstream limits of onstream spreading grounds and ties to structures which divert water from stream channel to offstream spreading grounds. For acceptable ties, see pages (12) and (13) of Rules and Regulations pertaining to appropriation of water.

Points of Diversion

Point of Beginning of percolating Stream Channel
Alameda Creek N79°W 4300' SE Cor. Being within SW 1/4 of SW 1/4
Sec. 15, T4S R1W MDB&M of said Sec. 15

Point of End of percolating Stream Channel
Alameda Creek West 400' SE Cor. Being within SE 1/4 of SE 1/4
Sec. 13 T4S R2W MDB&M of said Sec. 13

Point of Diversion of offstream percolating areas
Alameda Creek N50°E 2900' SW Cor. Being within SW 1/4 of NW 1/4
Sec. 21 T4S R1W MDB&M of said Sec. 21

15. Municipal Use. This application is made for the purpose of serving Fremont, Newark
Name city or cities, town or towns. Urban area only

Alvarado and Decoto having a present population of 31,000

The estimated average daily consumption during the month of maximum use at the end of each five-year period until the full amount applied for is put to beneficial use is as follows:

See supplement

16. Mining Use. The name of the mining property to be served is _____
Name of claim

_____ and the nature of the mines is _____
Gold placer, quartz, etc.

The method of utilizing the water is _____

It is estimated that the ultimate water requirement for this project will be _____
Cubic feet per second, gallons per minute. State basis of estimate

The water will be polluted by chemicals or otherwise _____
will not Explain nature of pollution, if any

and it will be returned to _____ in _____ of
will not Name stream State 40-acre subdivision

Sec. _____, T. _____, R. _____, B. & M. _____

17. Other Uses. The nature of the use proposed is _____
Industrial, recreational, domestic, stockwatering, fish culture, etc.

State basis of determination of amount needed. _____
Number of persons, residences, area of domestic lawns and gardens, number and kind of stock, type

_____ Industrial use, and unit requirements.

General

18. Are the maps as required by the Rules and Regulations filed with Application? Yes If not,
Yes or No state specifically the time required for filing same _____

19. Does the applicant own the land at the proposed point of diversion? No If not, give name and
Yes or No address of owner and state what steps have been taken to secure right of access thereto W. D. Patterson, R.F.D.
Box 104, Newark, California. No steps towards access to date.

20. What is the name of the post office most used by those living near the proposed point of diversion?

Livermore

21. What are the names and addresses of claimants of water from the source of supply below the proposed point of diversion? City of San Francisco Water Department

Note: This application to be equal in priority and correlative with application filed on or about the same date by Pleasanton Township County Water District on the same source and reservoir site.

[SIGNATURE OF APPLICANT] /s/ M. P. Whitfield,
M. P. Whitfield, General Manager
Alameda County Water District

This permit is issued and permittee takes it subject to the following provisions of the Water Code:

Section 1390. A permit shall be effective for such time as the water actually appropriated under it is used for a useful and beneficial purpose in conformity with this division (of the Water Code), but no longer.

Section 1391. Every permit shall include the enumeration of conditions therein which in substance shall include all of the provisions of this article and the statement that any appropriator of water to whom a permit is issued takes it subject to the conditions therein expressed.

Section 1392. Every permittee, if he accepts a permit, does so under the conditions precedent that no value whatsoever in excess of the actual amount paid to the State therefor shall at any time be assigned to or claimed for any permit granted or issued under the provisions of this division (of the Water Code), or for any rights granted or acquired under the provisions of this division (of the Water Code), in respect to the regulation by any competent public authority of the services or the price of the services to be rendered by any permittee or by the holder of any rights granted or acquired under the provisions of this division (of the Water Code) or in respect to any valuation for purposes of sale to or purchase, whether through condemnation proceedings or otherwise, by the State or any city, city and county, municipal water district, irrigation district, lighting district, or any political subdivision of the State, of the rights and property of any permittee, or the possessor of any rights granted, issued, or acquired under the provisions of this division (of the Water Code).

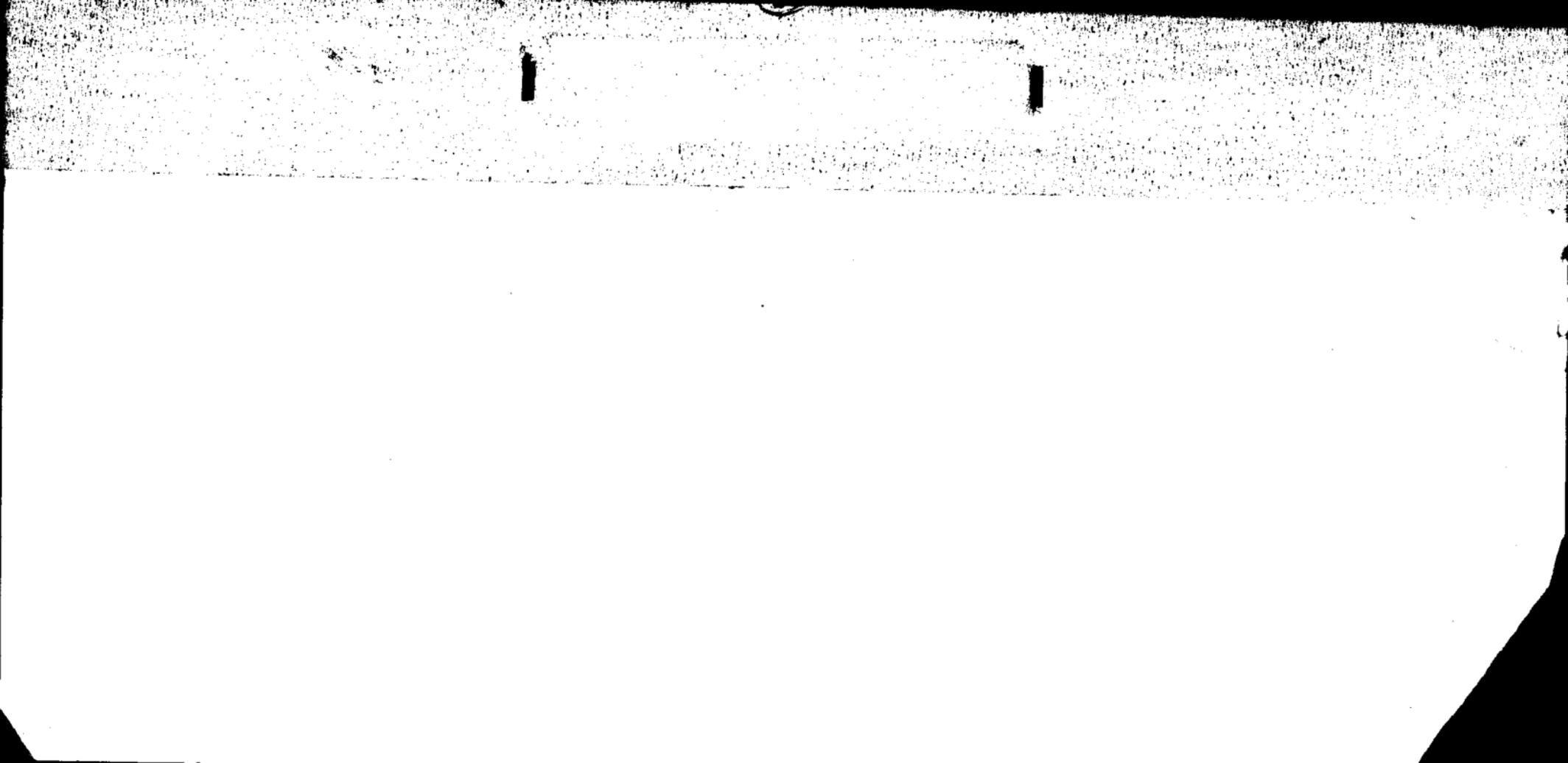
11320
Dated: APR 29 1958

STATE WATER RIGHTS BOARD

L. K. Hill

L. K. Hill

Executive Officer



IMPORTANT

[Please Read Carefully]

1. Note the terms and conditions of this permit. Construction work must be prosecuted, and the water applied to the beneficial uses intended with due diligence. Annual reports of progress will be expected from you upon forms which will be furnished for the purpose. When the water has been fully applied to the beneficial uses intended the Water Code requires that you notify the State Water Rights Board thereof.
2. Neither this application nor the permit is a water right, but if the terms and conditions of the permit are observed a water right can be obtained through beneficial use of the water—the extent of the right to be determined by a field inspection which will be made by a representative of the State Water Rights Board.
3. No change in point of diversion, or place of use or character of use, can be made under this application and permit without the approval of the State Water Rights Board.
4. If the rights under this permit are assigned immediate notice to that effect with the name and address of the new owner should be forwarded to the State Water Rights Board, Sacramento, California.
5. Please advise immediately of any change of address. Until otherwise advised communications will be sent to the address used in the letter transmitting this permit.

PERMIT No. 11320

This is to certify that the application of which the foregoing is a true and correct copy has been considered and approved by the State Water Rights Board SUBJECT TO VESTED RIGHTS and the following limitations and conditions:

1. The amount of water to be appropriated shall be limited to the amount which can be beneficially used, and shall not exceed 60,000 acre-feet per annum by storage to be collected between January 1 and December 31 of each year.
2. The total amount appropriated under Permit 11320 issued to Alameda County Water District under Application 17003 and under Permit 11319 issued to Pleasanton Township County Water District under Application 17002 shall not exceed 60,000 acre-feet per annum by storage to be collected between January 1 and December 31 of each year.
3. Permit 11320 issued to the Alameda County Water District under Application 17003 shall have the same priority as Permit 11319 issued to the Pleasanton Township County Water District under Application 17002.
4. The maximum amount herein stated may be reduced in license if investigation so warrants.
5. Construction work shall be commenced not later than December 1, 1958, and shall be completed on or before December 1, 1965.
6. Complete application of the water to the proposed use shall be made on or before December 1, 1970.
7. Progress reports shall be filed promptly by permittee on forms which will be provided annually by the State Water Rights Board until a license is issued.
8. All rights and privileges under this permit including method of diversion, method of use and quantity of water diverted are subject to the continuing authority of the State Water Rights Board in accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water.
9. Permittee shall release water into Arroyo del Valle channel from del Valle Reservoir in such amounts and at such times and rates as will be sufficient to supply downstream diversions of the surface flow under rights vested prior to date of application to the extent water would have been available for such diversions from unregulated flow, and sufficient to maintain natural percolation in the same total amount as such percolation would have occurred prior

to the date of application from unregulated flow, in order that operation of the project shall not reduce natural recharge of ground water in the Livermore Valley Ground Water Basin attributable to the flow of Arroyo del Valle and shall not reduce that portion of the natural recharge of ground water into the Sunol Valley Ground Water Basin attributable to the flow of Arroyo del Valle, and shall not reduce that portion of the natural recharge of ground water into the Niles Cone attributable to the flow of Arroyo del Valle.

10. Until further order of the Board, permittee shall make or cause to be made, subject to the approval and control of the Board, suitable field investigations, measurements and studies, and shall install necessary measuring facilities, to determine the amount, timing and rate of release of water into the natural channel of the Arroyo del Valle that are required of permittee in order to comply fully with the provisions of Condition No. 9 in this permit. Permittee shall submit to the Board and to the parties appearing at the hearing on December 2-5, 1957, to wit: Alameda County Water District, Pleasanton Township County Water District, City and County of San Francisco, Zone 7 of Alameda County Flood Control and Water Conservation District, City of Pleasanton, County of Alameda, upon written request, with the annual progress reports, or at such other times as the Board may require, a report of such investigations, measurements, and studies and the results thereof, including but not limited to the following information:

- a. Compute daily inflow to del Valle Reservoir by proper computations of change in storage.
- b. Establish and measure daily evaporation, wind movement, temperature and precipitation of one station at or near del Valle Reservoir.
- c. Measure daily discharge through and over del Valle Dam.
- d. Install proper gaging stations and obtain daily records of discharge

of:

Arroyo del Valle above del Valle Reservoir
Arroyo del Valle below del Valle Dam
Arroyo del Valle below Hopyard Road, Pleasanton
Arroyo de la Laguna at Verona Bridge
Arroyo de la Laguna near Sunol

Alameda Creek near Niles
Alameda Creek near Alvarado
Patterson Creek near Alvarado-Centerville Road
Dry Creek near Decoto

e. Maintain ground water studies of the Livermore Valley Ground Water Basin and the Niles Cone with spring and fall observations of wells and monthly observations of six selected wells in each of the two areas.

f. Install continuous water stage recorders and maintain records on two wells in each of the two above mentioned areas adjacent to the stream channels.

g. Make periodic surveys of Arroyo del Valle, Arroyo de la Laguna, and Alameda Creek channels in order to determine consumptive use by native vegetation and by evaporation.

h. Make quarterly water quality analyses of surface water downstream from del Valle Dam and semi-annual water quality analyses of ground water in the Livermore Valley Ground Water Basin and the Niles Cone and surface water at Niles Canyon at locations approved by the Board.

i. Make estimates of augmentation to underground supply each water year from or attributable to Arroyo del Valle in the Livermore Valley Ground Water Basin, the Sunol Valley Ground Water Basin, and the Niles Cone, together with supporting data.

The periods of time, the location and the plans of operation of gaging stations to be used to secure these records shall be subject to the approval of the State Water Rights Board. Said installations shall be constructed and in operation, where practicable, on or before September 1, 1958. The operation of the required gaging stations shall be subject to inspection at any time by the Board or any other party appearing at the hearing on December 2-5, 1957. In case it is found that the permittee is not securing records in reasonable conformity with the requirement of the permit, the Board may, after hearing cancel the permit. During the period such records are being secured, the State Water Rights Board, on its own motion or on request of any protestant appearing at the hearing on December 2-5, 1957, may require the permittee to secure such other data as the Board may find is needed to enable

operating criteria for the del Valle Reservoir to be defined so that downstream diversions of the surface flow under rights vested prior to the date of application to the extent water would have been available for such diversions from unregulated flow and the amount of the pre-project natural percolation that would have resulted from the pre-project flow of the Arroyo del Valle will be maintained in its total amount and within reasonable conformity with the pre-project time of occurrence and rate of percolation.

Permittee shall make its records of such investigations and measurements available for inspection by the Board and the aforesaid enumerated parties appearing at said hearing, and shall allow authorized representatives of the Board and interested parties reasonable access to its project works and properties for the purpose of gathering information and data.

11. The Board may either upon the request of any of the aforesaid enumerated parties or on its own motion, and shall, prior to the expiration of a 15-year trial period, said trial period commencing with the beginning of the first year of operation of the del Valle Reservoir, hear, review, and make such further orders as may be required concerning proper releases of water for downstream use and recharge of ground water, and concerning the investigations, measurements and studies to be conducted by permittee, until a final determination and order can be made concerning the amounts, timing and rates of releases of water from the del Valle Reservoir in satisfaction of downstream rights, and the Board retains continuing jurisdiction for such purposes so long as it may deem necessary, but not exceeding the 15-year trial period.

12. Should the permittee desire to proceed to construction of the del Valle Reservoir under the terms of this permit before additional hearings are held for the purpose of setting forth additional criteria for storage operation, then the reservoir so constructed may be operated for a period not in excess of three years, under the following provisions:

a. The reservoir outlets at minimum storage stage shall have a capacity of not less than 300 second feet.

b. The first 300 second feet of natural flow of Arroyo del Valle shall pass through the reservoir outlets without storage until such time as such flow, together with the runoff of the other tributaries of Alameda Creek wastes to San Francisco Bay; provided, however, that during such periods as the flow of other tributaries of Alameda Creek, independently of the flow of Arroyo del Valle, is sufficient to cause and maintain flow to San Francisco Bay, then that portion of the natural flow of Arroyo del Valle in excess of that required to maintain flow in the channel of Arroyo del Valle into the channel of Arroyo de la Laguna, and with the flow of other tributaries of Arroyo de la Laguna, is in excess of the flow required to maintain flow in Arroyo de la Laguna into Alameda Creek, may be stored by permittee.

c. If, in any year, the percolation from the channel of Arroyo del Valle under the reservoir operation, as defined in paragraph (b) of this Condition (2) results in a total percolation which is less than the volume of water represented by the amount of the first 100 second feet of the daily flow of Arroyo del Valle at the del Valle Reservoir, then permittee shall release from the water it has stored in said reservoir at times and rates of flow which will result in its percolation from Arroyo del Valle, an amount of such stored water which, with the actual percolation which has occurred from the unstored natural flow, will equal in volume the total represented for that year by the first 100 second feet of natural flow on each day of that year. For the purpose of this paragraph, the year shall consist of the period October 1 to September 30 of the succeeding year. On days when the natural flow of Arroyo del Valle is less than 100 second feet, the natural flow shall be the amount to be percolated. The permittee shall make the storage releases that may be required under the provisions of this paragraph at its own expense. Such releases shall be made promptly after the end of the runoff season at times and rates which will place the released storage in the ground water of the Livermore Ground Water Basin as nearly in accordance with pre-project conditions as may be practicable.