



**MONTEREY PENINSULA  
WATER MANAGEMENT DISTRICT**

5 HARRIS COURT, BLDG. G  
POST OFFICE BOX 85  
MONTEREY, CA 93942-0085 • (831) 658-5600  
FAX (831) 644-9560 • <http://www.mpwmd.dst.ca.us>

# SUPPLEMENT TO 12/12/05 MPWMD BOARD PACKET

Attached are copies of letters received between November 9, 2005 and December 2, 2005. These letters are also listed in the December 12, 2005 Board packet under item 23, Letters Received.

<b>Author</b>	<b>Addressee</b>	<b>Date</b>	<b>Topic</b>
Andrew C. Chang	Joe Oliver	11/4/05	Appreciation for Participation in Groundwater Conference
Andrew C. Chang	Darby Fuerst	11/4/05	Appreciation for Participation in Groundwater Conference
Roy Kaminski	David A. Berger	11/15/05	California American Water Production from Carmel River <i>11/23/05 Response from David Berger also attached.</i>
Karen Csejtey	David A. Berger	11/18/05	Appreciation for Participation in Water Panel
David Pendergrass	Larry Foy	11/30/05	Formation of Recycled Water Storage Committee
Ray von Dohren	David A. Berger	12/2/05	Discharge of Tertiary Water into Riparian Habitat



UC CENTER FOR WATER RESOURCES  
RUBIDOUX HALL - 094  
RIVERSIDE, CALIFORNIA 92521-0426

TELEPHONE: (951) 827-4327  
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WEBSITE: cwres@ucr.edu

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NOV 10 2005

MPWMD

November 4, 2005

Joe Oliver  
Monterey Peninsula Water Management District  
P.O. Box 85  
Monterey, CA 93942-0085

Dear Joe:

On behalf of the organizing committee, I would like to express our appreciation for your time and efforts in making a poster presentation, at the 25<sup>th</sup> Biennial California Groundwater Conference and 14<sup>th</sup> Annual Meeting of Groundwater Resources Association of California, October 25 – 26, 2005 in Sacramento, California. We appreciate the time and effort you spent on travel and preparations.

The conference, in our opinion, was a success. I am especially excited on attendees' responses to the poster presentations. In the attachment, I summarize comments we have received in regards to this event. Thank you for sharing your work and experience and hope you will contribute again in the future.

Sincerely,

Andrew C. Chang, Director  
Center for Water Resources  
University of California  
4501 Glenwood Dr.  
Riverside, CA 92521  
Phone 951-827-4327 Fax 051-827-5295

attachment

AC:jb

## CONFERENCE EVALUATION

### POSTER SESSION COMMENTS

- Very good
- Good
- Good, but kind of static
- Very good – good to have abstracts in the program
- Good layout and interconnection
- Excellent – number and variety
- Greater posters, would be nice to have available on web with conference programs
- Good
- Good physical set up + room to circulate
- Excellent!
- All posters were well done
- Good, very technical
- The poster session was alright. The physical display was awkward but content good
- Crowded
- Excellent posters, would like handouts
- A little cozy for the space, blocked exhibitors at back of room
- Very well done and illustrative of all the good work being done in the field, labs, and offices
- I enjoyed the posters, although a few were too wordy and 'busy' to allow efficient reading.
- The poster session was very good, although it seemed like a few authors dominated it.
- Good - worthwhile
- A lot of well prepared and informative posters.
- Enjoyed posters and topics of.
- Posters were informative and I followed up with some of the authors.
- Nicely laid out.
- Very good poster session. Informative.
- Good variety of work. I'm glad people stepped up to display their work

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SANTA BARBARA • SANTA CRUZ

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NOV 10 2005

**MPWMD**

November 4, 2005

Darby Fuerst  
Monterey Peninsula Water Management District  
P.O. Box 85  
Monterey, CA 93942-0085

Dear Darby:

On behalf of the organizing committee, I would like to express our appreciation for your time and efforts in making a poster presentation, at the 25<sup>th</sup> Biennial California Groundwater Conference and 14<sup>th</sup> Annual Meeting of Groundwater Resources Association of California, October 25 – 26, 2005 in Sacramento, California. We appreciate the time and effort you spent on travel and preparations.

The conference, in our opinion, was a success. I am especially excited on attendees' responses to the poster presentations. In the attachment, I summarize comments we have received in regards to this event. Thank you for sharing your work and experience and hope you will contribute again in the future.

Sincerely,

Andrew C. Chang, Director  
Center for Water Resources  
University of California  
4501 Glenwood Dr.  
Riverside, CA 92521  
Phone 951-827-4327 Fax 051-827-5295

attachment

AC:jb

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- Very good poster session. Informative.
- Good variety of work. I'm glad people stepped up to display their work

P.O. Box 22096  
Carmel, CA 93922  
November 15, 2005

David A. Berger  
General Manager  
Monterey Peninsula  
Water Management District  
5 Harris Court, Bldg G  
Monterey, CA 93940

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NOV 15 2005

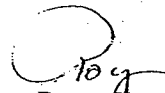
**MPWMD**

Dear David,

I told the District Board that I would correlate the relationship between the use of ground water to water remaining in the aquifer and the Chairperson asked me to give you the results. I'm sure that you know all of this stuff better than I.

As you know Cal-AM production from the Carmel River Basin (CRB) was solely from ground water during water years 2003-2004 and 2004-2005. The chart is self explanatory. You will note, however, that while the amount of water in the aquifer remains fairly constant that water year 1995 ended with 29, 195 acre feet; 11,701 acre feet were used and water year 1996 ended with 27,150 acre feet in the aquifer. Of the 11,701 acre feet used, 5874 acre feet were ground water. Compare this with aquifer levels in 2004 and 2005 when all water used was ground.

Best Regards,

  
Roy Kaminske

Encl

CALIFORNIA AMERICAN WATER RAW WATER PRODUCTION BY SOURCE: WATER YEARS 1986-PRESENT  
 (All Values in Acre-Feet)

DATE	SAN CLEMENTE RESERVOIR				UPPER CY WELLS	LOWER CY WELLS	SEASIDE COASTAL WELLS	FOREST LAKE	SYSTEM MONTHLY	CRIB MONTHLY	CRIB CUMULATIVE
	0	0	0	0							
Oct-2003	0	25	860	540	0	0	0	1,425	885	885	
Nov-2003	0	14	600	394	0	0	0	1,008	614	1,499	
Dec-2003	0	26	641	245	0	0	0	912	667	2,166	
Jan-2004	0	26	849	10	0	0	0	885	875	3,041	
Feb-2004	0	24	909	0	0	0	0	933	933	3,974	
Mar-2004	0	112	1,041	0	0	0	0	1,153	1,153	5,127	
Apr-2004	0	181	1,072	72	0	0	0	1,325	1,325	6,380	
May-2004	0	29	1,008	569	0	0	0	1,606	1,037	7,417	
Jun-2004	0	32	935	368	0	0	0	1,525	957	8,374	
Jul-2004	0	25	913	548	0	0	0	1,486	938	9,312	
Aug-2004	0	25	947	301	0	0	0	1,473	972	10,284	
Sep-2004	0	27	943	471	0	0	0	1,441	920	11,254	
HY 2004 SUM	0	536	10,718	3,918	0	0	0	15,172	11,254		
HY 2004 PCT	0%	4%	71%	26%	0%	0%	0%	100%			
Oct-2004	0	29	687	431	0	0	0	1,147	716	716	
Nov-2004	0	28	708	202	0	0	0	938	736	1,452	
Dec-2004	0	25	611	301	0	0	0	937	636	2,088	
Jan-2005	0	47	928	26	0	0	0	1,001	975	3,063	
Feb-2005	0	76	861	0	0	0	0	937	937	4,000	
Mar-2005	0	83	923	0	0	0	0	1,006	1,006	5,006	
Apr-2005	0	66	913	0	0	0	0	979	979	5,985	
May-2005	0	78	989	220	0	0	0	1,287	1,067	7,052	
Jun-2005	0	80	935	406	0	0	0	1,421	1,015	8,067	
Jul-2005	0	71	927	516	0	0	0	1,514	998	9,065	
Aug-2005	0	26	984	464	0	0	0	1,474	1,010	10,075	
Sep-2005	0	25	926	437	0	0	0	1,388	931	11,026	
HY 2005 SUM	0	634	10,392	3,003	0	0	0	14,029	11,026		
HY 2005 PCT	0%	5%	74%	21%	0%	0%	0%	100%			

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

California American Water and Predecessor Companies									
Water Production by Major Source Area for Water Years 1916 - Present									
(All Values in Acre-Feet)									

Water Year	Carmel River Basin	
	Ground Water	Surface Water
1995	5,874	4,162
1996	8,174	3,527
1997	9,688	3,159
1998	8,597	1,557
1999	9,195	1,385
2000	11,092	258
2001	10,700	98
2002	10,893	175
2003	11,056	242
2004	10,718	0
2005	11,026	0





**MONTEREY PENINSULA  
WATER MANAGEMENT DISTRICT**

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POST OFFICE BOX 85  
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FAX (831) 644-9560 • <http://www.mpwmd.dst.ca.us>

November 23, 2005

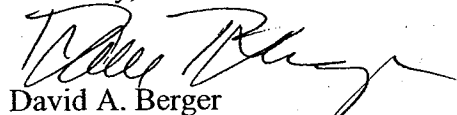
Mr. Roy Kaminske  
P.O. Box 22096  
Carmel, CA 93922

Dear Mr. Kaminske,

This will serve to acknowledge receipt of your letter of November 15, 2005, which attached several graphs and tables on Carmel River water levels and California American Water production over the past several years. On behalf of the Board of Directors, we also appreciated your presenting the key graphs at their meeting last Monday evening. It's my understanding that you intend to share the conclusions from your analysis of these graphs and tables with the Board. As we discussed, it would appear that your analysis ties directly to the topic of water needs analysis and supply augmentation alternatives, which the Board will be discussing during evening workshops scheduled beginning on March 23, 2006. Meanwhile, I've referred your letter and its attachments to District staff for review and comment, the results of which I will provide you when completed.

Thanks again for your interest in this important subject. Feel free to contact me if you have any questions.

Sincerely,

  
David A. Berger  
General Manager

pc: MPWMD Board of Directors  
Joe Oliver  
Darby Fuerst  
Andy Bell



**LEADERSHIP  
MONTEREY  
PENINSULA**

*Educating Minds and Hearts to Build a Better Community*

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NOV 28 2005

**MPWMD**

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Christine Cermak  
*Vice President*

Steve Endsley  
*Secretary*

Bard Mansager  
*Treasurer*

Donna Bane  
Christine Cermak  
Steve Endsley  
Wendy LaRiviere  
Bard Mansager  
Greg Mislick  
Louis Panetta  
Tom Petersen  
Joanne Webster

Mitch Brown  
Gary Luce  
Faye Messenger  
*Directors Emeritus*

Karen Csejtey  
*Executive Director*

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de Noriega  
Clay Larson  
Mary Ann Leffel  
Todd Lueders  
Basil Mills  
Nicolas Papadakis  
Elliott Robinson  
Jayne Speizer

November 18, 2005

David Berger, General Manager  
Monterey Peninsula Water Management District  
P. O. Box 85  
Monterey, CA 93942

Dear David:

On behalf of everyone at Leadership Monterey Peninsula, I would like to extend our sincere thanks for the wonderful presentation you provided as part of our water panel for Regional Challenges Class Day for the Class of 2006 on November 9th.

*Here is what some of the class members had to say:*

"A great summary and explanation of one of the most important issues facing the Peninsula today."

"Honest and forthcoming description regarding the complexity of water issues with valuable points and counterpoints."

"The panel presentation was so good, I went home and did some internet searching to learn more about each organization and the references they mentioned."

We are grateful for your support particularly now as the program progresses for the Class of 2006. These are individuals who want to be informed and skilled in addressing the issues that affect our quality of life.

Leadership Monterey Peninsula is dedicated to building a thriving and diverse community by developing strong and effective leaders to play major roles in decision-making and problem-solving at every level. Partnering with us to help continue to make that possible is truly a gift.

Thank you again. Your support of LMP is deeply appreciated as is all your work in the community. Wishing you continued success in all your community endeavors.

Sincerely,

Karen Csejtey  
Executive Director

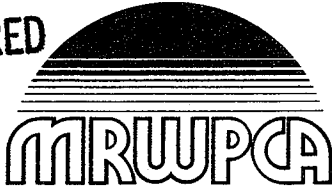
**LMP is an AWARD WINNER!**

*Business Excellence Awards, Education Category*  
by the Monterey Peninsula Chamber of Commerce

LMP is a nonprofit educational organization, Federal ID# 77-0343488

801 Lighthouse Ave., Suite 106, Monterey, CA 93940 (831) 649-8252 ~ (831) 655-9246 fax  
www.leadershipmonterey.org

HAND  
DELIVERED



# Monterey Regional Water Pollution Control Agency

13

*"Dedicated to meeting the wastewater and recycled water needs  
of our member agencies, while protecting the environment."*

Administration Office:

5 Harris Court, Bldg. D, Monterey, CA 93940-5756

(831) 372-3367 or 422-1001, FAX: (831) 372-6178

Website: [www.mrwPCA.org](http://www.mrwPCA.org)

November 30, 2005

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DEC 01 2005

**MPWMD**

Mr. Larry Foy, MPWMD Board Chair  
Monterey Peninsula Water Management District  
P. O. Box 85  
Monterey, CA 93942-0085

Dear Mr. Foy:

At our October 31<sup>st</sup> meeting, the MRWPCA Board unanimously accepted the recommendation from the Recycled Water Storage Committee to form a Joint Leadership Committee between our agency and MPWMD for the purpose of coordinating the Groundwater Replenishment Project.

I would like to propose we meet to discuss the formation of this new committee, set a schedule for meetings, determine the scope for discussions, and appoint members to the committee. Having Board members and staff from each agency meeting periodically would be a good way to jointly plan this project and assure the best coordination.

Should you agree to the above, please let us know so that we can begin discussions. We look forward to developing this project for the community and appreciate the commitment of your organization to encourage this collaboration.

Sincerely yours,

Dave Pendergrass, Chair  
MRWPCA Board of Directors

*Joint Powers Authority Member Entities:*

*Boronda County Sanitation District, Castroville Service Area 14, County of Monterey, Del Rey Oaks, Marina Coast Water District, Monterey, Moss Landing County Sanitation District, Pacific Grove, Salinas, Sand City, Seaside, and U.S. Army (Ex-officio)*



# Carmel Area Wastewater District

P.O. Box 221428 Carmel California 93922 ♦ (831) 624-1248 ♦ FAX (831) 624-0811

Ray von Dohren  
General Manager

Mark S. Scheiter  
Superintendent

Robert R. Wellington  
Legal Counsel

December 2, 2005

Board of Directors  
William R. Englander  
Robert Kohn  
Joyce S. Stevens  
Charlotte F. Townsend  
Ken White

**RECEIVED**

DEC 05 2005

**MPWMD**

Mr. David Berger  
General Manager  
Monterey Peninsula Water Management District  
P. O. Box 85  
Monterey, CA 93940

Re: Discharge of Tertiary Water into  
Riparian Habitat

Dear Dave:

You have requested specific information with regard to the proposed project to put tertiary effluent into the riparian habitat adjacent to the Carmel Area Wastewater District treatment plant.

In July, 2004, the California Regional Water Quality Control Board granted the District two additional points of discharge for tertiary water; one south of the treatment plant and one to the north of the plant. Last year, the Carmel Area Wastewater District supplied tertiary quality water to the riparian habitat adjacent to the District's treatment plant. We were able to put approximately 44 acre feet into the habitat starting on July 28, 2004 and continuing until October. This water traveled overland and subsurface and had a positive impact on the water level in the Carmel Lagoon. Considering that, during this period the Carmel Lagoon may hold as little as 30 acre feet of water, the impact from the District's 44 acre feet was significant. One agency representative involved in this program claimed that this flow saved the steelhead population in the Lagoon. This year, we have placed an additional 25 acre feet of water into the habitat, which has helped decrease the salinity and raise water levels in the Lagoon.

Mr. David Berger  
General Manager  
Monterey Peninsula Water Management District

The present method of getting water to the habitat is inefficient, labor intensive and requires a dry river bed before discharge. In order to eliminate these impediments, the District investigated options to the present system of discharge to the north of the treatment plant. This was the most workable of the two discharge locations permitted by the Regional Water Quality Control Board, but still required a time consuming, labor intensive procedure to implement

The proposed project would place water into the riparian habitat directly south of the treatment plant (see enclosed map). At present, water is automatically discharged out the ocean outfall or sent to the golf courses in the Forest, depending on the parameters in the treatment plant's electronic monitoring system. Thus, if the reclaimed water storage tank in the Del Monte Forest is full, the system knows to bypass tertiary treatment and discharge to the ocean.

What we propose is to add another loop into this discharge scheme that will permit tertiary water to discharge to the riparian habitat. Thus, when water is needed for the habitat and not required for the golf courses, the District's Supervisory Control and Data Acquisition System (SCADA) would automatically switch water discharge locations as needed. A simple overflow and piping system would be installed at the tertiary plant. The instrumentation logic would be modified to allow tertiary water to be produced, but the tertiary effluent pumps would be shut off. At the same time, the dechlorination system would turn on to produce tertiary water with a zero chlorine residual. Water would overflow from the effluent sump into an existing 24-inch overflow line. However, instead of the flow returning to the existing flow equalization basin (FEB), it would be diverted to the riparian habitat about 20 to 30 feet from this location. The California-American Water Company is working with us now to design this system. They appear willing to fund the capital costs for this Project.

The existing tertiary facilities will be modified in the next three years. Prior to that and under present operating conditions, the District will continue to discharge to the ocean during the dry season when the golf courses flush the golf course greens with potable water. This normally occurs once per month starting in April. Flushing cycles usually last five days. Thus, starting in April, approximately 20 to 25 acre feet of

Mr. David Berger  
General Manager  
Monterey Peninsula Water Management District

water, could be available for discharge to the habitat per month. Over the dry season, that could be up to 125 acre feet of water. Obviously, the availability of that volume of water would have a very positive impact on the habitat and the Lagoon. The old Cal-American Forest Lake reservoir is being rehabilitated and modified to store recycled water. It should be on line in December 2005. After modification to Forest Lake is complete, additional flow to the habitat on a more as needed basis may be available, because the added storage should add flexibility to a time when water could be used for other than for golf course irrigation.


Upon the completion of Phase II of the Reclamation Project, availability and discharge of water to the riparian habitat will change. Nevertheless, some water should be available in most years. In addition, the flow concentrate from the RO units will also be available. This water is tertiary water that has been concentrated approximately four times. It will be available at no cost at the rate of approximately 400,000 gallons per day.

We believe there are some exciting short and long term opportunities here to benefit and protect the riparian habitat adjacent to the treatment plant and Carmel Lagoon. The Carmel Area Wastewater District has agreed to develop a project to meet short term needs and fund part of the operation and maintenance cost for the project. The Cal-American Water Company has agreed to fund the capital costs to build the project and the Pebble Beach Company has agreed to allow the use of the existing tertiary facilities for other than supplying water to the golf courses.

I am sure all parties will participate in a long term solution to provide tertiary water and, perhaps, RO concentrate water to the habitat. This type of public/private partnership is exceedingly beneficial to the public and, I hope the Water Management District takes this opportunity to participate.

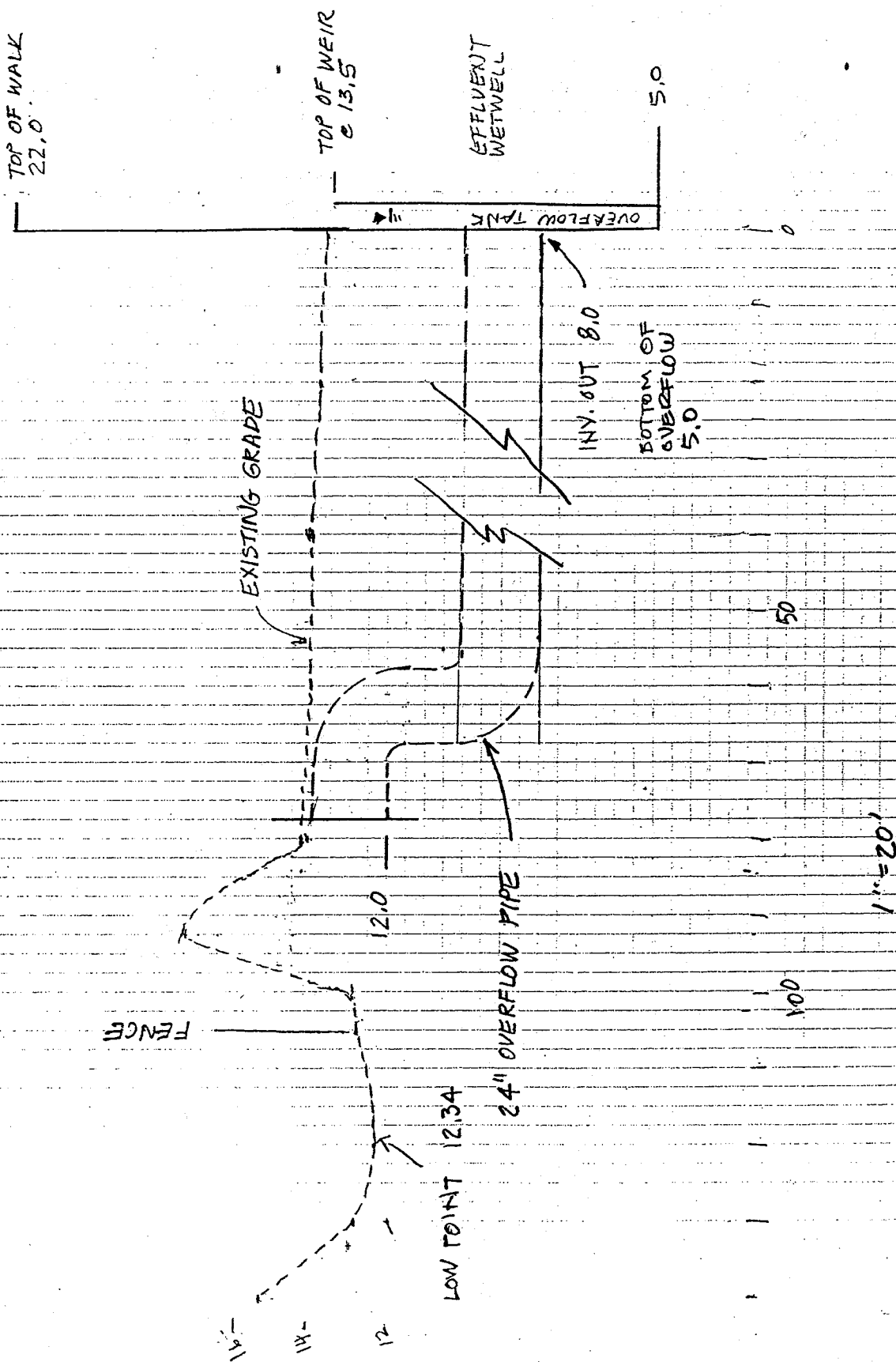
Very truly yours,

CARMEL AREA WASTEWATER DISTRICT

  
Ray von Dohren  
General Manager

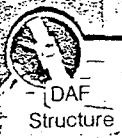
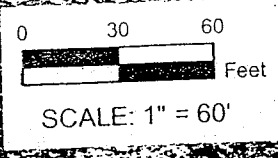
RvD/faw  
Enc.

OVERFLOW PIPE & EXISTING GRADE PROFILE SHOWN ON SAME PLANE FOR COMPARISON.



1" = 4' 0"

1" = 20'



Secondary Sedimentation Tank No.1

Equalization Basins  
No. 2      No. 1

Aeration Basins  
No. 4      No. 3

Meter Vault

Secondary Sedimentation Tank No.2

Mixed Liquor Distribution Structure

Secondary Effluent Diversion Structure

Chlorination Building

Effluent Pump Station

Aeration Basin No.5

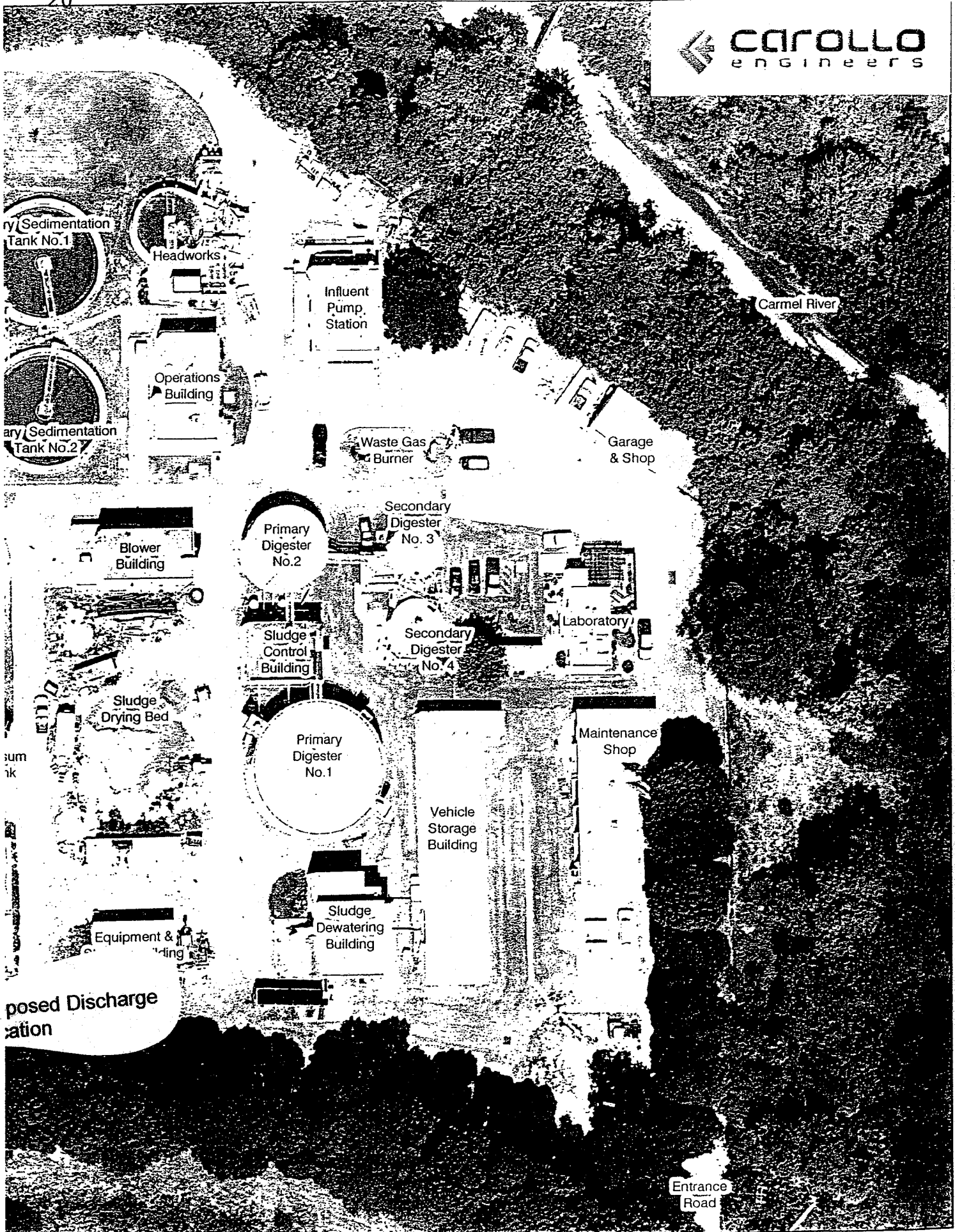
Aeration Basin No.6

Laboratory Building

Tertiary Facilities

**SITE PLAN  
SALINITY MANAGEMENT PROJECT  
CAWD/PBCo**





Carmel River

Primary Sedimentation Tank No. 1

Headworks

Influent Pump Station

Operations Building

Primary Sedimentation Tank No. 2

Waste Gas Burner

Garage & Shop

Blower Building

Primary Digester No. 2

Secondary Digester No. 3

Laboratory

Sludge Control Building

Secondary Digester No. 4

Sludge Drying Bed

Primary Digester No. 1

Maintenance Shop

Vehicle Storage Building

Equipment & Building

Sludge Dewatering Building

Proposed Discharge Station

Entrance Road