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The agenda is subject to change.



AGENDA
Water Supply Planning Committee
Of the Monterey Peninsula Water Management District

Monday, May 4, 2020, 4 pm, Virtual Meeting

Pursuant to Governor Newsom's Executive Orders N-29-20 and N-33-20, and to do all we can to help slow the spread of COVID-19 (coronavirus), meetings of the Monterey Peninsula Water Management District Board of Directors and committees will be conducted with virtual (electronic) participation only using WebEx.

Join the meeting at mpwmd.webex.com.

Meeting number: 625 168 057

Meeting password: mkDfFb7cM45

Participate by phone: 877-668-4493

For detailed instructions on connecting to the WebEx meeting see page 3 of this agenda.

**Water Supply
Planning Committee
Members:**

*George Riley, Chair
Mary Adams
Molly Evans*

Alternate:

Alvin Edwards

Staff Contact

*David J. Stoldt,
General Manager*

*After staff reports have
been distributed, if
additional documents are
produced by the District
and provided to the
Committee regarding any
item on the agenda they
will be made available on
the District's website
prior to the meeting.
Documents distributed at
the meeting will be made
available upon request
and posted to the
District's website within
five days following the
meeting.*

Call to Order

Comments from Public - *The public may comment on any item within the District's jurisdiction. Please limit your comments to three minutes in length.*

Action Items - *Public comment will be received. Please limit your comments to three (3) minutes per item.*

1. Consider Adoption of April 6, 2020 Committee Meeting Minutes

Presentations - *Public comment will be received. Please limit your comments to three (3) minutes per item.*

2. Update on Pure Water Monterey Project
3. Update on ASR Project
4. Review of Calculating Compliance with the Cease and Desist Order Targets
5. Update on Process for Tracking Water Extracted from and Injected into the Seaside Groundwater Basin
6. Explanation of Table 13 Water Rights
7. Suggest Items to be Placed on Future Agendas

Adjournment

Upon request, MPWMD will make a reasonable effort to provide written agenda materials in appropriate alternative formats, or disability-related modification or accommodation, including auxiliary aids or services, to enable individuals with

disabilities to participate in public meetings. MPWMD will also make a reasonable effort to provide translation services upon request. Submit requests by noon on May 1, 2020, to the Board Secretary, arlene@mpwmd.net or call 831-658-5652.

See next page of agenda for instructions on connecting to the WebEx meeting.

Instructions for Connecting to the WebEx Meeting

Note: If you have not used WebEx previously, when you begin connecting to the meeting you may be asked to download the app or join via the web. You can do either option. If you log on via your computer AND use your phone for the audio, please disable your computer speakers using your Settings menu on your computer to avoid echoes that occur when using the computer web link AND the phone number to join. If you do not have a computer, you can participate by phone only.

Begin: Within 5 minutes of the meeting start time from your computer go to: mpwmd.webex.com. Under "Join a Meeting" enter the meeting number 625 168 057, hit the enter key and when prompted enter the meeting password mkDfFb7cM45, click "Next" and see the dropdown menu at the bottom of the screen "Use computer for audio" and select the method you will use to hear the meeting – see below.

1) Audio and video connection from computer with WebEx app – view participants/materials on your screen

Click on the "Use computer for audio" drop down list

Click "Join Meeting"

Once in the meeting, mute your microphone.

Turn your microphone on when it is your turn to speak.

2) View material on your computer screen and listen to audio on your phone

From the "Use computer for Audio" drop down list select "Call In"

Click on "Join Meeting" / You will see a toll-free telephone number, access code, and attendee ID # -- enter these numbers on your phone.

Mute the microphone on your computer.

Disable computer speakers using the Settings menu.

3) Join by phone only (no computer) dial 877-668-4493 and use the meeting number above.

Protocol for Meetings Conducted by Teleconference

- 1) The Chair will call the meeting to order.
- 2) Receipt of Public Comment – the Chair will ask for comments from the public.
 - (a) Audio and video connection through WebEx – use the "raise hand" icon to indicate you would like to speak. When called upon, please state your name.
 - (b) Audio on your phone – when the Chair asks for comments from persons participating by phone, your microphone will be unmuted, please state your name and present your comment.
 - (c) Limit your comments to 3 minutes in length.

Submit Written Comments

If you are unable to participate via telephone or computer to present oral comments, you may also submit your comments by e-mailing them to comments@mpwmd.net with the subject line "PUBLIC COMMENT ITEM" and add the item number. Comments must be received by noon on Monday, May 4, 2020. All submitted comments will be provided to the Board of Directors and may be read into the record and will be compiled as part of the record.

WATER SUPPLY PLANNING COMMITTEE

ITEM: ACTION ITEM

1. CONSIDER ADOPTION OF APRIL 6, 2020 COMMITTEE MEETING MINUTES

Meeting Date: May 4, 2020

From: David J. Stoldt,
General Manager

Prepared By: Arlene Tavani

CEQA Compliance: This action does not constitute a project as defined by the California Environmental Quality Act Guidelines Section 15378.

SUMMARY: Attached as **Exhibit 1-A** are draft minutes of the April 6, 2020 committee meeting.

RECOMMENDATION: The Committee should adopt the minutes by motion.

EXHIBIT

1-A Draft Minutes of the April 6, 2020 Committee Meeting



EXHIBIT 1-A

DRAFT MINUTES Water Supply Planning Committee of the Monterey Peninsula Water Management District *April 6, 2020*

Call to Order: The meeting was called to order at 4:00 pm.

Committee members present: George Riley, Chair
Molly Evans
Mary Adams

Committee members absent: None

Staff members present: David J. Stoldt, General Manager
Jonathan Lear, Water Resources Division Manager
Thomas Christensen, Environmental Resources Div. Mgr.
Maureen Hamilton, Water Resources Engineer
Arlene Tavani, Executive Assistant

Comments from the Public: No comments.

Action Items

1. **Consider Adoption of March 2, 2020 Committee Meeting Minutes**
Evans offered a motion that was seconded by Adams to approve the Draft Minutes of the March 2, 2020 committee meeting. The motion was approved on a unanimous vote of 3 – 0 by Evans, Adams and Riley.
2. Consider a Contract Amendment with Pueblo Water Resources to Complete Report Preparation to Enroll the Carmel River Aquifer Storage and Recovery Project in State Board Order 2012-0010-DWQ
On a motion by Adams and second of Evans, the committee recommended that the Board approve a contract amendment with Pueblo Water Resources. The motion was approved on a unanimous vote of 3 – 0 by Adams, Evans and Riley.
3. Consider Entering into a Reimbursement Agreement with California American Water and Act as Lead CEQA Agency for Construction of a Bypass Pipeline to Allow Simultaneous Pure Water Monterey Recovery and ASR Injections
On a motion by Evans and second of Adams, the committee recommended that the General Manager enter into a reimbursement agreement with Cal-Am for the CEQA work to construct the bypass pipeline necessary to allow simultaneous PWM recovery and ASR injection and move this item to the Administrative Committee for

consideration. The motion was approved on a unanimous vote of 3 – 0 by Evans, Adams and Riley.

4. Receive Report on Plan for Responding to the State Water Resources Control Board Regarding Water Right 20808 A, B and C
Evans offered a motion that was seconded by Adams to recommend that the Board direct that the General Manager reply to the SWRCB letter with the recommendations from the March 24, 2020 call with SWRCB staff. The motion was approved on a unanimous vote of 3 – 0 by Evans, Adams and Riley.

Discussion Items

5. **Update on ASR Well #1 Rehabilitation**

Mr. Lear reported that the original plan was to rehabilitate ASR Well #1 so that it could be utilized as a source of recovery water for Pure Water Monterey. However, due to the COVID 19 crisis, construction could not proceed. It was decided that even with its current limited capacity, ASR Well #1 could be utilized for recovery of PWM water through the end of this water year. Later in the year, the situation would be assessed and completion of the rehabilitation project considered. If the rehabilitation work proceeds, the well would handle increased production from the PWM project expected in the next water year. ZIM Industries would keep their bid open for the rehabilitation work until October 2020.

6. **Update on Pure Water Monterey Vadose Zone Wells**

Maureen Hamilton's presentation is on file at the District office and can be viewed on the MPWMD website. She reported on the sink hole that appeared at Vados Zone Well #2 and presented photos of the situation. She stated that a geotechnical engineer was in the process of determining stability of the soil at the well site, which would inform the design of additional stabilization should it be needed.

7. **Suggest Items to be Placed on Future Agendas**

At the request of the committee, Mr. Stoldt provided an update on items that were suggested for follow-up at the March 2, 2020 meeting. **Completed** - (a) Continue to update the committee on the status of Pure Water Monterey Expansion project. **As for b, c and d – they could be added to the April committee agenda or discussed over a series of meetings.** (b) Explanation of reserve or credits used to calculate water availability represented by amounts below the CDO targets. (c) Tracking water extracted from and injected into the Seaside Groundwater Basin. (d) Relationship of Table 13 water users to water demand issues. **The General Manager had no knowledge of the reported study.** (e) Water demand study being prepared by Marina Coast Water District.

Adjournment: The meeting was adjourned at 5:05 pm.

WATER SUPPLY PLANNING COMMITTEE

PRESENTATION

4. REVIEW OF CALCULATING COMPLIANCE WITH THE CEASE AND DESIST ORDER TARGETS

Meeting Date: May 4, 2020 **Budgeted:** N/A

From: David J. Stoldt **Program/**
General Manager **Line Item No.:** N/A

Prepared By: David J. Stoldt **Cost Estimate:** N/A

General Counsel Approval: N/A

Committee Recommendation: N/A

CEQA Compliance: This action does not constitute a project as defined by the California Environmental Quality Act Guidelines Section 15378.

SUMMARY: The attached Table 5 is populated following the fourth quarter of a water year and filed with the State Water Board by California American Water in a quarterly compliance filing. **Exhibit 4-A** shows the data following the 2018-19 water year.

The table is intended to show compliance with the Cease and Desist Order Effective Diversion Limit (EDL). District staff will describe the computation to the Committee at its meeting.

EXHIBIT

4-A Water Year 2018-19 Compliance with the Effective Diversion Limit

EXHIBIT 4-A

Table Five (a) Effective Diversion Limit Adjustment Calculation (AF)	
Effective Diversion Limit	8,310
Penalty for Missed Milestones	(0.00)
Water Produced by Sand City not used by Sand City Customers	(107.09)
Pure Water Monterey Groundwater Replenishment Project Water Recovery	(0.00)
Instream Flow Agreement Carry Over Credit (50%) from previous water year	0.00
Adjusted Effective Diversion Limit	8,202.91

Table Five (b) Adjusted Carmel Valley Well Production Calculation (AF)	
Carmel Valley Well Production (excludes Malpaso Water)	6,768.11
Malpaso Water Produced not served to subscribers	58.00
Water served to Pebble Beach entitlements	(32.51)
ASR Injection in excess of 600AF	(0.00)
Adjusted Carmel Valley Well Production	6,793.61

Table Five (c) *Final Quarter Quantification and Basis of Credits earned and Amount Being Carried Over (AF)	
Adjusted EDL (from Table 5a)	8,202.91
Adjusted Carmel Valley Well Production (from Table 5b)	6,793.61
Production Exceeding Adjusted EDL	0.00
Carryover Credits from Prior Years applied to offset EDL Exceedance (Max 750 AF per year)	0.00
Adjusted Exceedance EDL	0.00
Production Less Than Adjusted EDL (Carryover Credits)	1,409.30
Unused Carryover Credits from Prior Years	2,333.22
Cumulative Carryover credit for Future Years	3,742.52

* Data in this table only populated in the Final (Fourth) Quarter of the WY.

WATER SUPPLY PLANNING COMMITTEE

PRESENTATION

5. UPDATE ON PROCESS FOR TRACKING WATER EXTRACTED FROM AND INJECTED INTO THE SEASIDE GROUNDWATER BASIN

Meeting Date:	May 4, 2020	Budgeted:	No
From:	David J. Stoldt General Manager	Program/ Line Item:	Water Supply Projects N/A
Prepared By:	Jonathan Lear	Cost Estimate:	N/A

General Counsel Review: N/A

Committee Recommendation: N/A

CEQA Compliance: This action does not constitute a project as defined by the California Environmental Quality Act Guidelines section 15378.

SUMMARY: The Seaside Groundwater Basin consists of three water bearing hydrogeologic units. The layering in order of shallow to deep are the Aromas Dune Sands, the Paso Robles Aquifer, and the Santa Margarita Sandstone. There is production out of all three of the aquifer units. The Aromas Dune Sands hold brackish water and is the source water for the Sand City Desalination Plant. The Paso Robles Aquifer contains native groundwater and contains some shallow Cal-Am production wells as well as private wells. The Santa Margarita Sandstone also contains native water, however it is the target hydrogeologic unit for injection and storage of water. There are two types of water that are injected from two different water resources project. There are Cal-Am, City of Seaside, Golf Course, and private wells that produce water from the Santa Margarita Sandstone. The Carmel River Aquifer Storage and Recovery Project (ASR) injects groundwater produced from wells in the Carmel River Basin after it has been treated at the Begonia Iron Removal Plant. Pure Water Monterey (PWM) Project injects highly treated wastewater from the M1W plant north of Marina.

Water is tracked both volumetrically and chemically as each of the water types has a distinct chemical signature. Monitoring networks required by the Regional Water Quality Control Board, Department of Drinking Water, and the Seaside Groundwater Basin Watermaster provide data that allows District staff to define the areas of the Seaside Groundwater Basin where each water type exists.

Water injected by the Carmel River ASR project is counted on injection through meter reads at the ASR well heads. Similarly, PWM injected water is counted by meters at the injection wells associated with PWM. A total of how much water has been injected by each project and is currently in storage is kept by MPWMD staff at a daily time step. These ledgers are used in the Quarterly Water Budget Process when deciding how to best produce water in the most environmentally responsible manner. Water extracted by Cal-Am and the City of Seaside is

measured by meters and reported to the District on a monthly basis. Private well owners report extraction totals to the District on a yearly basis.

To summarize, currently there are four types of water in the Seaside Groundwater Basin.

1. Brackish Water – located in the Aromas Dune Sands and provides the source for the Sand City Desalination Plant
2. Native Groundwater – Exists in the Paso Robles Aquifer and the Santa Margarita Sandstone.
3. Carmel River Basin Water – Injected into the Santa Margarita Sandstone by the Carmel River ASR Project.
4. Highly Treated Wastewater – Injected into the Santa Margarita Sandstone by the Pure Water Monterey Project.

Staff will provide a PowerPoint at the meeting to show the locations of the source waters and the injection and extraction locations for the Seaside Groundwater Basin.

RECOMMENDATION: Receive staff report.

EXHIBIT

None

WATER SUPPLY PLANNING COMMITTEE

PRESENTATION

6. EXPLANATION OF TABLE 13 WATER RIGHTS

Meeting Date: May 4, 2020 **Budgeted:** N/A

From: David J. Stoldt **Program/**
General Manager **Line Item No.:** N/A

Prepared By: David J. Stoldt **Cost Estimate:** N/A

General Counsel Approval: N/A

Committee Recommendation: N/A

CEQA Compliance: This action does not constitute a project as defined by the California Environmental Quality Act Guidelines Section 15378.

SUMMARY: On July 6, 1995 the State Water Board issued Decision No. 1632 which approved Application 27614 by the Monterey Peninsula Water Management District for the appropriation of water from the Carmel River by the New Los Padres Project. This became the District's Permit 20808 water right.

The District was approved for up to 42 cubic feet per second of direct diversion and 24,000 acre feet annually (afa) to storage, not to exceed a combined total diversion of 29,000 afa. The authorized season of direct diversion and diversion to storage was from November 1 of each year to June 30 of the following year.

The decision included conditions which provide that any permit issued to the District shall:

- a. Be junior in priority to the rights of persons diverting water for reasonable beneficial use under valid and properly exercised riparian, overlying, pre- and post-1914 appropriative claims of right (which were then currently prior to the District's Application 27614), and
- b. Be junior to any approved application for an appropriative right for certain persons identified in the decision who are using established quantities of water within the watershed of origin, irrespective of the priority of such applications *vis a vis* the District's application.

The "certain persons" under "b" above were identified in Table 13 of the Decision. Condition 10 of the Decision provided an opportunity for the persons named in Table 13 to obtain a water right permit with a priority superior to the District's Permit 20808. The Table 13 list were given an opportunity to document their water use and seek revisions to the Table 13 quantities listed in the original decision. Decision 1632 and its Table 13 were amended March 17, 1997 and the restated Table 13 is included as **Exhibit 6-A**.

In 1993, California American Water (Cal-Am) was issued its Permit 30215A – its Table 13 water right – for the diversion shall not exceed **4.1 cubic feet per second** from December 1 of each year to May 31 of the succeeding year. The maximum annual diversion shall not exceed **1,488 acre-feet** during the authorized diversion season. Because the permit is seasonally limited to December 1 through May 31 each year and subject to instream flow requirements actual production will vary by water year. In the District’s Supply and Demand analysis, we assumed 300 AFA on average. The place of use is limited to within the California-American Water Company service area, **Carmel River watershed area only.**

Very few applications associated with Table 13 have been processed. It turns out that many of the applications made back in the 1990s have been cancelled. After the National Marine Fishing Service (NMFS) introduced instream flow requirements in 2002, several applicants balked at completing the permit process, so there are several “pending” applications. Also, SWRCB has routinely been writing permits for much less than the “face value” amount in the application (Cal-Am’s Table 13 permit is a prime example).

Many of the applicants on Table 13 are also current riparian diverters, so it’s a bit messy trying to parse riparian use and Table 13 applications and permits. In the future, some of the riparian diverters that hold a Table 13 permit may be able to divert under either right – but not both at the same time. So, for those diverters, it would be double-counting potential water use to add riparian and appropriative rights together. The non-Cal-Am production from the alluvial aquifer has averaged a little more than 2,300 AFY. **Exhibit 6-B** shows how all of the Carmel River water rights interact, as of 2015.

EXHIBITS

6-A Table 13 Water Rights Holders

6-B Summary of Carmel River Water Rights (2015)

EXHIBIT 6-A

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

DIVISION OF WATER RIGHTS

ORDER APPROVING REVISIONS
TO TABLE 13 OF DECISION 1632

WHEREAS:

1. On July 6, 1995, the State Water Resources Control Board (SWRCB) adopted Decision 1632 regarding diversion of water from the Carmel River in Monterey County for the New Los Padres Reservoir Project of Monterey Peninsula Water Management District (District).
2. Decision 1632 contains condition 10, which provides an opportunity for the persons named in Table 13 of Decision 1632 to obtain a water right permit with a priority superior to the District's Permit 20808.
3. Condition 10 delegates to the Chief, Division of Water Rights the authority to modify the quantities identified in Table 13. Any modifications to the quantities in Table 13 are to be made only upon compliance with the provisions of Condition 10.
4. In adopting the following amendments to the quantities in Table 13, the SWRCB does not intend to supercede the footnotes appended to Table 13 in Decision 1632.
5. The persons listed in Table 13 below having had an opportunity to document their water use and seek revisions to the Table 13 quantities. Having provided a copy of the Division of Water Rights recommendations regarding revisions to Table 13 to the parties on July 11, 1996 and the responses to the July 11, 1996 proposed revisions to Table 13 having been reviewed, I find that Holt, Lutes, Markkula, Patterson, Rancho San Carlos, Vetter and Wolter complied with the provisions of condition 10 regarding modifications to Table 13 quantities. Therefore, their Table 13 water use values should be revised accordingly.
6. Decision 1632 makes no provision for reallocating water among the persons listed in Table 13. The failure of any person to perfect a water right for the full quantity of water identified in Table 13 is not a basis for revising any of the quantities of water identified in Table 13.

EXHIBIT 6-A

Decision 1632, Table 13
Page 2

NOW, THEREFORE, IT IS ORDERED THAT:

Decision 1632, the quantities in Table 13 are revised as follows.

CARMEL RIVER WATERSHED SWRCB DETERMINATION OF PRIORITY AND QUANTITIES (IN ACRE-FEET) DECISION 1632--TABLE 13 QUANTITIES Revised March 1997 (NC Denotes No Change)					
Name	Appli- cation Number	Source of Information	July 6, 1995 Table 13 Quantities	Revised Table 13 Quantities Approved Pursuant To March 1997 Order	Quantity Reserved by SWRCB for Future Approp- riation
Asoleado	30093	Exhibit ASO:B	11.3	NC	11.3
Bernardi	29193	Application	2.3	NC	2.3
Berube	30442	Application	41.2	NC	41.2
Cal-Am	30215	Exhibit Cal-Am:88,5	2,964.0	NC	2,964.0
Carmel Valley Ranch	30106	Well Report/ Stipulation	340.0	NC	340.0
Chappel	30145	Well Report	3.5	NC	3.5
Chugach	30034	Well Report	7.6	NC	7.6
Crow, G. & J.	30065	Well Report/ Stipulation	1.4	NC	1.4
Crow, T.	30066	Well Report	12.7	NC	12.7
Evans	29659	Well Report/ Stipulation	15.0	NC	15.0
Greco	30045	Estimate	6.1	NC	6.1
Hacienda Carmel	30112	Well Report/ Stipulation	50.0	NC	50.0
Holt	30544	Meter Record	0.0	10.6	10.6
Kaufman/ Williams	30067 30068	Well Report/ Stipulation	160.0	NC	160.0
Koontz	30057	Well Report	0.7	NC	0.7
Lutes	30510	Well Report	0.0	50.3	50.3
Markkula	X000152	Well Report	0.0	88.5	88.5
Moses	30047	Well Report	2.3	NC	2.3
Nicholson	30046	Well Report/ Stipulation	2.2	NC	2.2

EXHIBIT 6-A

Decision 1632, Table 13
Page 3

Name	Appli- cation Number	Source of Information	July 6, 1995 Table 13 Quantities	Revised Table 13 Quantities Approved Pursuant To March 1997 Order	Quantity Reserved by SWRCB for Future Approp- riation
Odello (Eastwood)	30497	Exhibit: Odello, 2.1	195.9	NC	195.9
Patterson	30447	Well Report	0.0	1.9	1.9
Porter- Hoover	30075	Estimate	82.0	NC	82.0
Quail Lodge	30117	Well Report	254.0	NC	254.0
Rancho Cañada ¹	30111	Well Report	700.0	NC	700.0
Rancho San Carlos	30149 30150 30420	Well Report	268.0	115.0 60.0 13.0	115.0 60.0 13.0
Randazzo	30281	Well Report	18.0	NC	18.0
Samson/ Beckerman ²	30110 30351	Estimate	79.1	NC	79.1
Scardina	30060	Estimate	0.4	NC	0.4
Sterten	30070	Well Report	5.1	NC	5.1
Templeman	29648	Well Report	0.7	NC	0.7
Vetter	30446	Well Report	0.0	1.9	1.9
Williams Trust	30058	Well Report	1.5	NC	1.5
Wistrich	27633	Well Report	0.9	NC	0.9
Wolfe	30040	Estimate	8.3	NC	8.3
Wolter	30511	Well Report	0.0	37.4	37.4
Total:					5,344 ¹ .8

¹ Application No. 30111 seeks water right permits for ten parcels which Rancho Cañada de la Segunda, Inc. ("Rancho Cañada") leases from other parties. The Assessor Parcel Numbers for these parcels are: 015-162-009, 015-162-012, 015-162-017, 015-162-024, 015-162-025, 015-162-026, 015-162-033, 015-162-035, 015-162-036, 015-162-037. If Rancho Cañada does not obtain a water right permit for these parcels pursuant to Application No. 30111, the owners of the parcels may pursue water right permits for them up to, but not in excess of, the percentage share by acreage of the 700 afa quantity allocated here, notwithstanding any other statements on this table to the contrary.

² Common well of Samson and Beckerman.

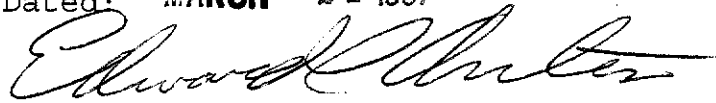
EXHIBIT 6-A

Decision 1632, Table 13
Page 4

The following persons failed to comply with the requirements of condition 10, Decision 1632 and are not allocated any water.

Persons Not Allocated Water In Table 13, Decision 1632 March 1997		
Name	Failure To Submit Water Right Application	Failure To Submit Records Of Meter Readings Or Well Production Records For The Period January 1, 1987 through November 22, 1994
Blanchard	X	X
Johnson, Pat	X	X
Johnson, F.	X	X
Kirk	X	X
Lufkin	X	X
Pt. Sur Corporation	X	X
Spear		X
Syndicate Camp	X	
Tregea Trust	X	X
Wilson-Rancho Chupinos	X	

Dated: **MARCH 21 1997**



Edward C. Anton, Chief
Division of Water Rights

EXHIBIT 6-B

Summary of Carmel River Water Rights (2015)

Column	(A)	(B)	(C)	(D)	(E)	(F)					
Application ID	Holder Name	Face Amount (AF/Y)	Face Amount (cfs)	Face Amount (mgd)	Permitted or Proposed Amount (AF/Y)	Proposed Max. Diversion Rate (cfs) (see note 2)	Proposed Max. Diversion Rate (mgd) (see note 2)	Requested Season	Proposed or Permitted Diversion Season	Table A Instream flow requirement	Source
A030046	Nancy Nicholson	2.2	0.0030	0.0020	0.0	-	-	1/1 to 12/31 - Domestic	None		
A030057	DON R KOONTZ	14.4	0.0199	0.0129	2.2	0.0030	0.0020	5/1 to 10/31 - Irrigation	5/1 to 10/31	Yes	CARMEL RIVER SUB STR
A030058	R & J WILLIAMS 1980 JOINT TRUST (Fisher)	1.5	0.0021	0.0013	1.5	0.0027	0.0017	1/1 to 12/31 - Domestic, Stock	1/1 to 12/31	Yes	CARMEL RIVER SUB STR
			-	-		0.0220	0.0142		5/1 to 10/1	Yes	
						0.0003	0.0002		1/1 to 12/31	Yes	
A030059	William Spear	8.0	0.0111	0.0071	8.0	-	-	1/1 to 12/31 - Domestic	1/1 to 4/30	Yes	TULARCITOS CREEK SUB STR
A030066	TOM CROW	12.7	0.0175	0.0113	12.7	0.1646	0.0142	1/1 to 12/31 - Domestic, Irrig	1/1 to 12/31	Yes	CARMEL RIVER SUB STR
A030075	Rancho Sin Frenos	15.7	0.0217	0.0140	7.4	0.0102	0.0066		11/1 to 4/30	Yes	TULARCITOS CREEK SUB STR
A030106	CVR HSGE LLC	340.0	0.4696	0.3035	340.0	0.4696	0.3035	1/1 to 12/31 - Irrigation	1/1 to 12/31	Yes	CARMEL RIVER SUB STR
A030111	RANCHO CANADA DE LA SEGUNDA, INC	700.0	0.9669	0.6249	545.0	2.3600	0.4865	1/1 to 12/31 - Irrigation	1/1 to 12/31	Yes	CARMEL RIVER SUB STR
A030112	HACIENDA CARMEL COMMUNITY ASSOCIATION	50.0	0.0691	0.0446		-	-	1/1 to 12/31 - Irrigation			CARMEL RIVER SUB STR
A030117	QUAIL LODGE INC	253.5	0.3502	0.2263	253.6	0.8500	0.2263	1/1 to 12/31 - Irrigation	1/1 to 12/31	Yes	CARMEL RIVER SUB STR
A030149	QUAIL LODGE INC	115.0	0.1588	0.1027		-	-	1/1 to 12/31 - Irrigation	1/1 to 12/31	Yes	CARMEL RIVER SUB STR
A030215A	CALIFORNIA-AMERICAN WATER COMPANY	2,964.0	4.0941	2.6459	1,482.0	4.0941	2.6459	1/1 to 12/31 - Municipal	11/1 to 5/31	Yes	Carmel River, Carmel Valley Aquifer
A030420	DEE ANN K HOWE	13.0	0.0180	0.0116		-	-	1/1 to 12/31 - Irrigation			CARMEL RIVER SUB STR
A030442	JEM PARTNERS LLC CA GENERAL PARTNERSHIP	41.2	0.0569	0.0368		-	-	1/1 to 12/31 - Domestic, Irrig			CARMEL RIVER
A030442A	Rector Wardens & Vestrymen of All Saints Parish	23.9	0.0330	0.0213		-	-	1/1 to 12/31 - Domestic, Irrig			CARMEL RIVER UNDERFLOW
A30497B	Eastwood	131.8	0.4500	0.1177	85.6	0.3700	0.0764	1/1 to 12/31 - Municipal			
					46.2	N/A	N/A	1/1 to 12/31 - Instream dedication			
A030510	LEO LUTES	50.3	0.0695	0.0449		-	-	1/1 to 12/31 - Irrigation			CARMEL RIVER SUB STR
A030511	WOLTER PROPERTIES LIMITED PARTNERSHIP	96.0	0.1326	0.0857		-	-	1/1 to 12/31 - Irrigation	1/1 to 12/31	Yes	CARMEL RIVER SUB STR
A030550	HOMESTEAD HOMEOWNERS ASSOCIATION	18.0	0.0249	0.0161		-	-	1/1 to 12/31 - Domestic, Irrig			CARMEL RIVER
A031646	HOLMAN RANCH HOLDINGS LLC	38.3	0.0529	0.0342		-	-	1/1 to 12/31 - Domestic, Other			CARMEL RIVER ALLUVIAL AQUIFER
			-	-		-	-	4/1 to 11/1 - Irrigation			
A029659	RICHARD EVANS	17.5	0.0242	0.0156		-	-	1/1 to 12/31 - Domestic			TULARCITOS CREEK SUB STR
								5/1 to 10/31 - Irrigation, Stock			
Subtotal of Table 13 (ex-Cal-Am) (see note 1)		1,943.0	2.7	1.7	1,256.0	4.3	2.75			Yes	
	Cal-Am License 11866 (see note 3)	3,030.0	4.2	2.7	2,179.0	3.0	1.95	1/1 to 12/31 - Municipal		No	
	Cal-Am pre-1914 (see note 4)	1,137.0	3.1	2.0	1,137.0	1.6	1.01	1/1 to 12/31 - Municipal		No	
	Cal-Am riparian (see note 5)	60.0	0.1	0.1	60.0	0.1	0.05	1/1 to 12/31 - Municipal		No	
	Cal-Am 30215A (formerly Table 13)	2,964.0	4.1	2.6	1,482.0	4.1	2.65	11/1 to 5/31 - Municipal		Yes	
Sub-total Cal-Am production (see note 9)		7,191.0	11.5	7.4	4,858.0	8.8	5.66				
	ASR Ph 1 (Cal-Am/MPWMD)	2,426.0	6.7	4.3	2,426.0	6.7	4.33	11/1 to 5/31 - Municipal		Yes	
	ASR Ph 2 (Cal-Am/MPWMD)	2,900.0	8.0	5.2	2,900.0	8.0	5.17	11/1 to 5/31 - Municipal		Yes	
Subtotal ASR rights		5,326.0	14.7	9.5	5,326.0	14.7	9.50			Yes	
Subtotal Cal-Am and MPWMD		12,517.0	17.3	16.9	10,184.0	23.5	15.16				
Estimate of Non-Cal-Am riparian (see note 6, 7)		540.0	0.7	0.5	1,071	0.7	0.48	1/1 to 12/31		No	
Total Estimated Rights		15,000.0	20.7	19.2	12,511.0	28.5	18.39				

Notes

1. Proposed Table 13 amounts (Col. D) are those established by SWRCB through November 2014. Table 13 amounts in Column D do not include several permit applications still in process with SWRCB that are included in Table 13 amounts shown in Column A.
2. Proposed instantaneous rates include permitted rates and an estimate for future permits based on draft permit.
3. License 11866 (at Los Padres Dam) original amount reduced from 3,030 AFY to 2,179 AFY by Order 95-10. Amount in cfs is presumed to be diverted continuously.
4. Presumed to be a continuous rate of diversion.
5. Face amount in cfs is presumed to be diverted continuously between Nov. 1 - May 31.
6. Table 13 amounts (ex Cal-Am) include riparian pumpers that applied for a Table 13 right. For puposes of this analysis, it is assumed Table 13 rights are exercised instead of riparian rights.
7. The mean of non-Cal-Am Carmel River Basin production for WY 1996-2014 was 2,327 AFY, which is presumed to have been pumped under riparian rights (few Table 13 rights had been permitted by 2011). Riparian pumping is estimated by subtracting Table 13 from non Cal-Am production.