


Water Authority's MWD Work Plan





Presentation outline

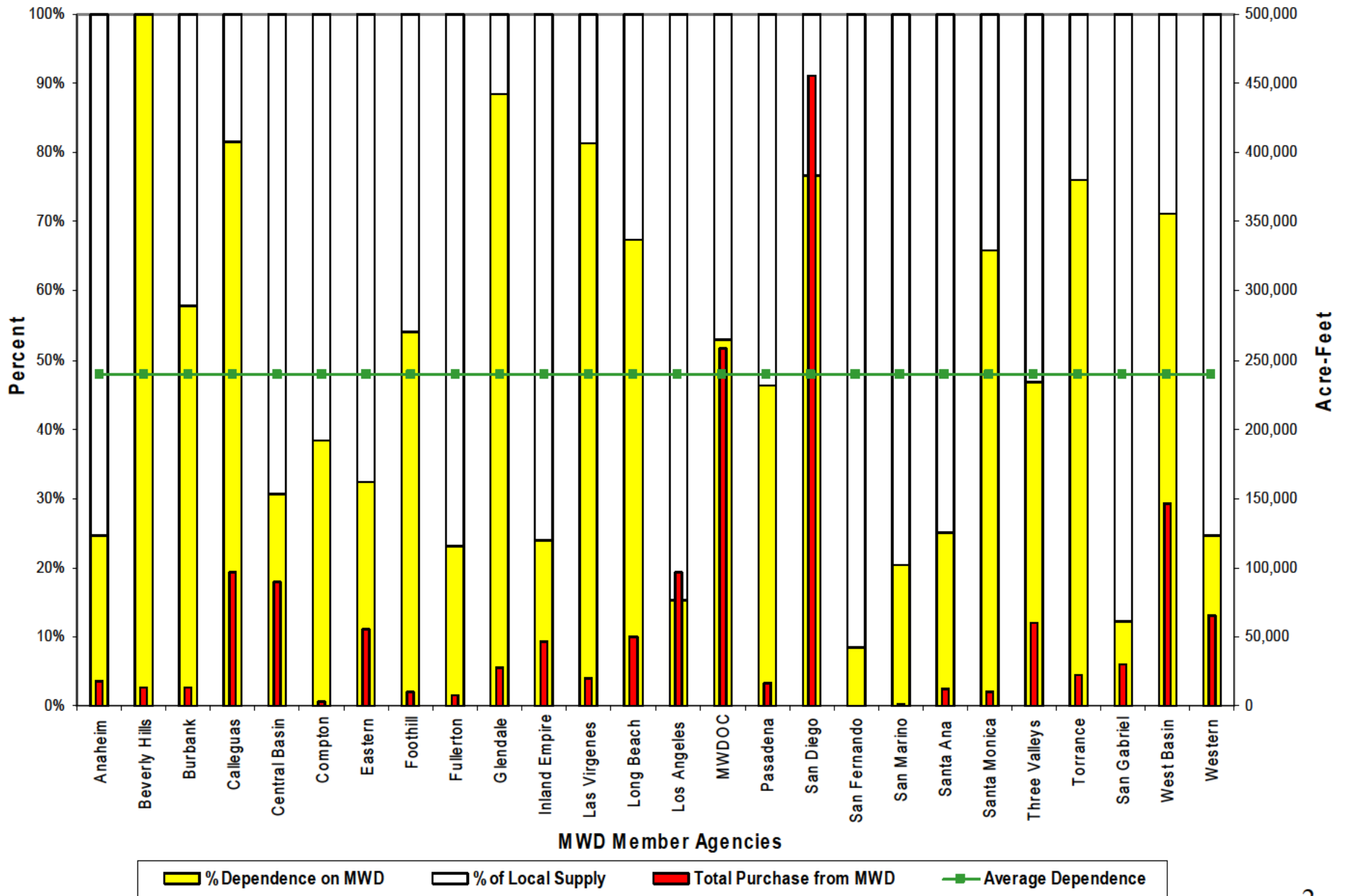
- Challenges faced in early 1990's
- MWD member agencies profile
- Water Authority's board decision to diversify
- Situation analysis – MWD and SDCWA
- Objectives
- Approaches

The logo features a stylized blue water drop with a white outline, positioned above a vertical black line. To the left of the line are two overlapping squares, one yellow and one red. A horizontal black line extends from the vertical line across the slide.

Water Authority's Challenges in early 1990's

- Dependency on MWD water up to 95%
- Purchases exceed preferential rights
- Largest water purchaser at MWD – purchases exceed 18 MWD member agencies combined
- Voting % at MWD based on Assessed Value – no relationship to financial contribution
- 1989 – 1992 Drought:
 - March 1991: 50% supply cutback
 - Miracle March
- Community said “Never again!”

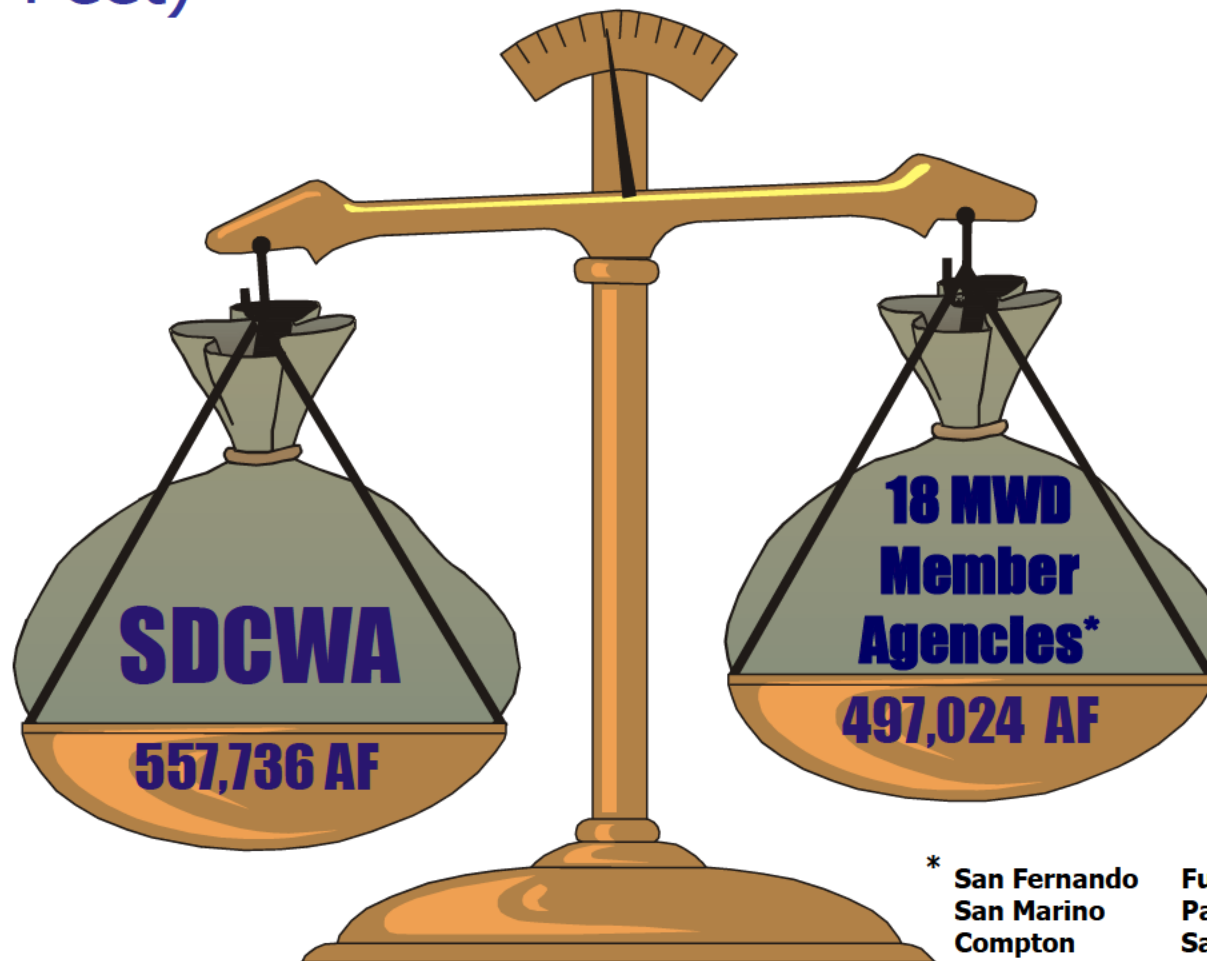
Typical Dependence on MWD Supplies*



*Note: Based on data from fiscal years 1996-1998

Fiscal Year 2006 Water Sales¹

(Acre-Feet)



* San Fernando
San Marino
Compton
Foothill
Santa Monica
Beverly Hills
Burbank

Fullerton
Pasadena
Santa Ana
Torrance
Glendale
Las Virgenes
Anaheim


Long Beach
Three Valleys
San Gabriel
Central Basin

¹Water Sales Data from MWD Website



Situation on Colorado River – early 2000's

- California was taking more than its basic apportionment
- Other states that hold Colorado River rights were pressuring California to cut back its dependence on Colorado River
- MWD's CRA take of 1.25 million acre-feet far more exceeds basic apportionment of 550,000 acre-feet per year
- California's 7-Party Agreement gives highest priorities to agricultural users
- In 2003, MWD lost fifth priority water of 662,000 acre-feet per year



Opportunity

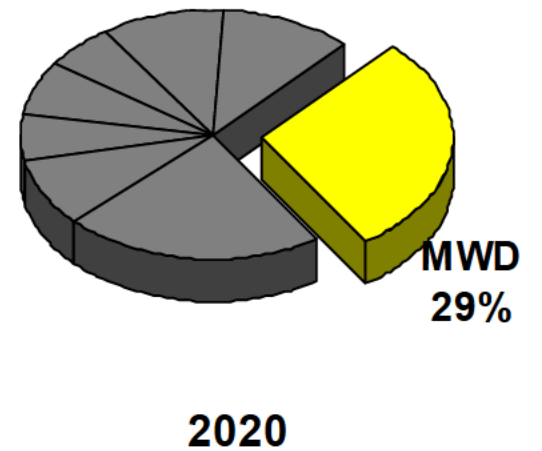
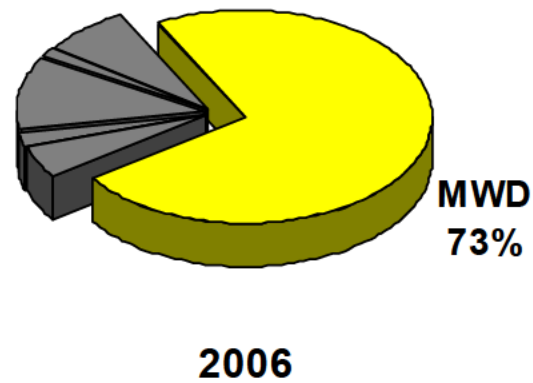
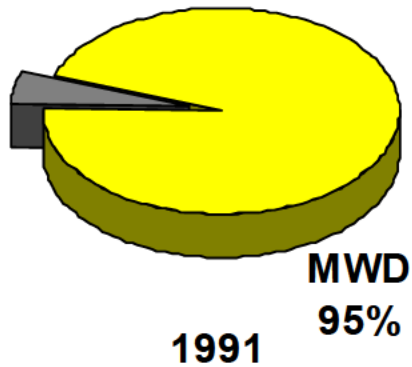
- To fill the CRA, urban agencies – MWD, or Water Authority – must work with agricultural users
- Although implemented a conservation agreement with IID in late 1990s, MWD was considering litigation to get additional agricultural water
- Water Authority Board desired to work cooperatively



Water Authority Board Decisions

- SDCWA Board made decision to secure IID water with full knowledge of MWD purchases will continue to be an important integral component of the overall supply
- Water Authority Board chose to diversify its supply portfolio to provide supply reliability to the region
- To achieve diversification goal, Water Authority sought outside assistance
- Result = Execution of QSA

Water Authority supply sources 1991, 2006 & 2020 (projected)





SDCWA Situation Analysis

- Passage of time shows wisdom of Water Authority Board decisions
- MWD's resources shift from baseload on Colorado River to State Water Project
 - Core to variable supplies
 - Increased reliance on storage
 - Increased reliance on local projects
- QSA supplies are highly reliable
- 277,700 AF – record of accomplishment



Transportation issues re SDCWA Transfers and Canal Lining

- Transportation cost of IID water was fully negotiated with MWD as part of QSA
- Approval of canal lining option brought additional reliable water supplies for 110 years
- No expectation of litigation



2007 Objectives

- *Overarching 2007 Work Plan objective is to focus on reliability*
 - Continue the path of diversification
 - Secure QSA water
 - Support MWD's work to ensure reliable supply projects are implemented
- Work in partnership with MWD
 - "Peace treaty" expired - no litigation
 - How can we work together?
 - Mindful of potential conflicts with partners
- All other MWD issues - major/distracting



MWD Issues

- Major issues
 - Supply (Colorado River, State Water Project/Delta, Local Projects)
 - Finance (rates, cost containment, long range finance plan)
 - Facilities (IAS, SSOA, P6, full use of facilities)
- Distraction
 - CWE, Diamond Valley Lake recreation



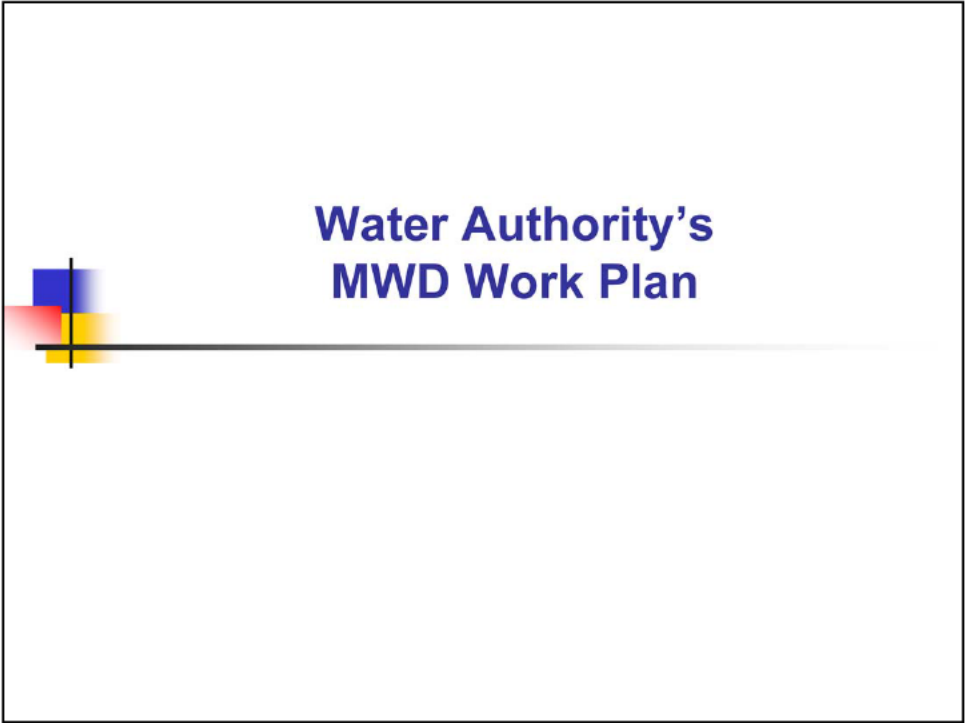
MWD Situation Analysis

- Water supplies
 - From baseload on Colorado River to State Water Project
 - From core supplies to variable supplies
 - Increased emphasis on local resources development
- Statewide picture
 - Need to find long-term fix for Delta
 - Access to State bond money
 - Legislative presence
- Cost



Approaches to 2007 Objectives

- Help ensure leadership and management success
- Focus on water reliability
 - Policies to support successful implementation of projects
 - Full utilization of existing facilities
 - QSA implementation
 - Delta/statewide engagement
- Cost containment through long range finance plan update





Presentation outline

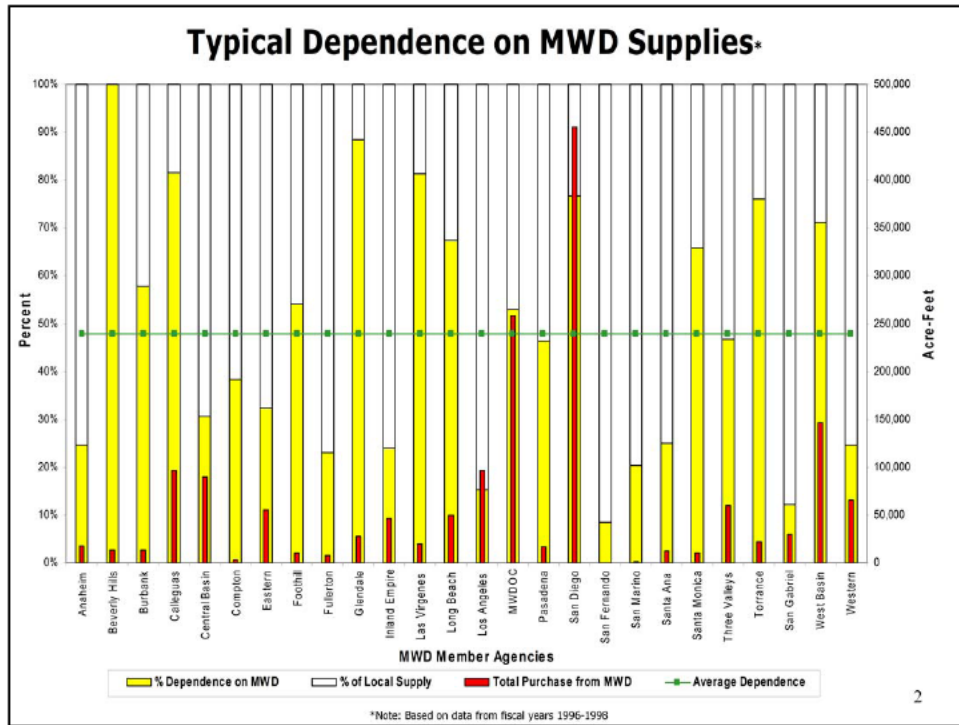
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Water Authority's Challenges in early 1990's

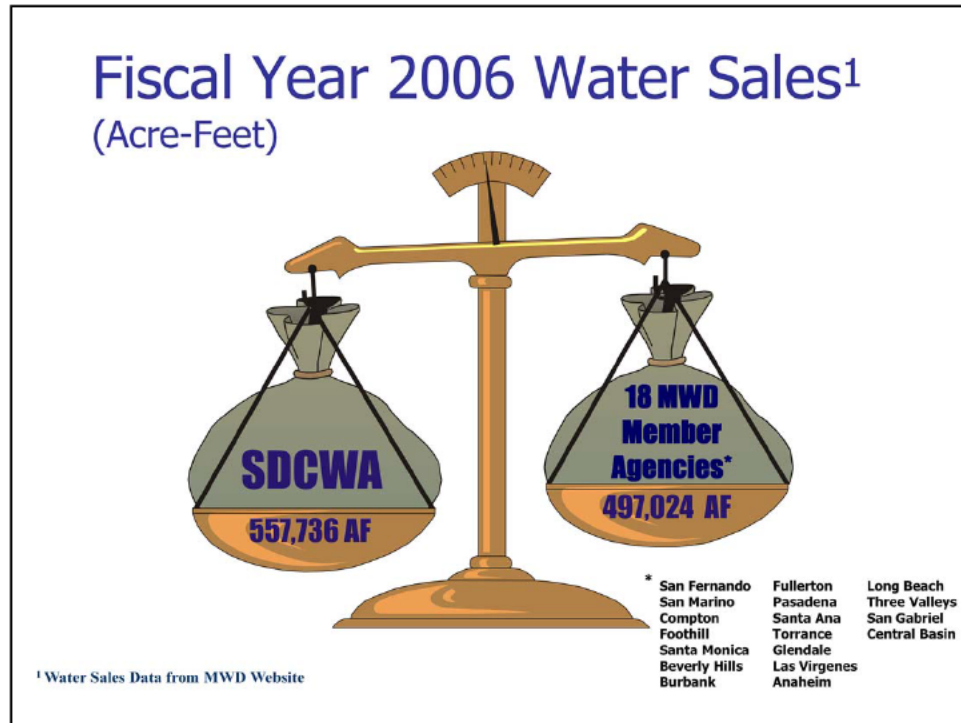
- Dependency on MWD water up to 95%
- Purchases exceed preferential rights
- Largest water purchaser at MWD – purchases exceed 18 MWD member agencies combined
- Voting % at MWD based on Assessed Value – no relationship to financial contribution
- 1989 – 1992 Drought:
 - March 1991: 50% supply cutback
 - Miracle March
- Community said "Never again!"

- What we were faced with in the early 1990's..
- Largest water purchaser at MWD, yet, the amount of financial contribution does not equal to voting power
- When drought hit in the early 90's; faced with a real potential that MWD would cutback its supplies to Water Authority by half
- Community told the board – "Never again!"



- Without looking too close to the details, can you find the Water Authority?
- Water Authority buys more water from MWD than any other member agency and depends on MWD for three-quarters of all the water used in our service area.
- Any decline in MWD’s supply reliability will have a particularly strong impact on San Diego region. We follow with great interest any change in MWD’s strategy for meeting the needs of its member agencies.

•<<CHART IS BEING UPDATED>>



- The amount of water the Water Authority purchases exceeds 18 member agencies' total purchases – combined.



Situation on Colorado River – early 2000's

- California was taking more than its basic apportionment
- Other states that hold Colorado River rights were pressuring California to cut back its dependence on Colorado River
- MWD's CRA take of 1.25 million acre-feet far more exceeds basic apportionment of 550,000 acre-feet per year
- California's 7-Party Agreement gives highest priorities to agricultural users
- In 2003, MWD lost fifth priority water of 662,000 acre-feet per year

•California, as a state was taking more than its basic apportionment of 4.4 maf (was about 5.2 maf)

•In California, the Colorado River water is divided according to what's called the "7-party agreement," which the agricultural users in Imperial, Palo Verde and Coachella get the bulk of the 4.4 maf basic apportionment.

•MWD – as the 4th priority right holder to the Colorado River, has only 550,000 af of the basic apportionment

•But MWD was taking 1.25 million acre-feet of Colorado River to meet its demand

•In 2003, it lost its 5th priority water



Opportunity

- To fill the CRA, urban agencies – MWD, or Water Authority – must work with agricultural users
- Although implemented a conservation agreement with IID in late 1990s, MWD was considering litigation to get additional agricultural water
- Water Authority Board desired to work cooperatively



Water Authority Board Decisions

- SDCWA Board made decision to secure IID water with full knowledge of MWD purchases will continue to be an important integral component of the overall supply
- Water Authority Board chose to diversify its supply portfolio to provide supply reliability to the region
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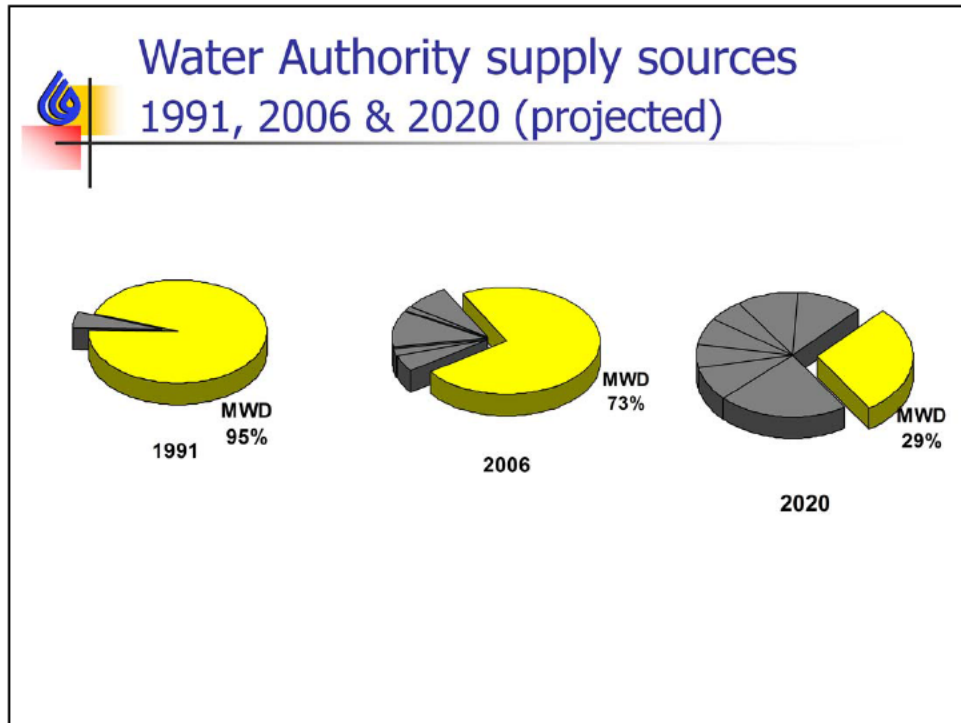
•Rather than fighting with the agricultural users, Water Authority made a decision to secure IID water – it made this decision with the full knowledge of

- MWD purchases will continue to be an integral component of the overall supply
- Others may fight hard to keep the “cash cow” and treat Water Authority’s diversity plan as “war”

•War was the known MWD reaction, not a state of MWD for the Water Authority. It is reflective of a real attitude

•Water Authority had to go outside of MWD to achieve reliability objectives

“RELIABILITY PLUS” – WE HAVE ALL THE WATER WE NEED
LITIGATION WITH IID - WASTE



San Diego region's dependence on MWD has dropped a lot since the last prolonged drought. But even in 2020, when our supply portfolio has been diversified thoroughly, MWD will remain the region's single largest source of supply.



SDCWA Situation Analysis

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- Distraction
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IAS – integrated area study – master facility plan study undertaken by MWD and member agencies to find most optimal ways to build the next facility to meet regional needs

SSOA –seasonal surface operating agreement – a shift program that encourages better management of resources, and maximizing the full use of facilities



MWD Situation Analysis

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WATER SUPPLIES

SHRINKING

610/221 COMMON OBJECTIVE

DELTA VISION

SDCWA KNOWS MORE THAN MOST



Approaches to 2007 Objectives

- Help ensure leadership and management success
- Focus on water reliability
 - Policies to support successful implementation of projects
 - Full utilization of existing facilities
 - QSA implementation
 - Delta/statewide engagement
- Cost containment through long range finance plan update

WEST POWER MARKETS

Dailies rise as temperatures drop; forwards up

Western on- and off-peak power prices jumped up Friday, with a premium for the all-day Sunday off-peak package and slightly lower temperatures. Forwards also moved higher as the new prompt-month March NYMEX gas futures contract made gains.

In the Desert Southwest, Palo Verde on-peak prices for Monday delivery gained \$3 to trade between \$32 and \$33.50/MWh on IntercontinentalExchange. Palo Verde off-peak prices for Sunday-Monday delivery took on \$5, trading between \$21.55 and \$23/MWh on ICE. The high temperature in Phoenix, Arizona, was forecast to be 68 Sunday, down 5 degrees from Saturday's expected high. Opal, Wyoming, spot gas prices lost about 7 cents, trading between \$3.945 and \$4.05/MMBtu on ICE. The Western Electricity Coordinating Council forecast peak demand in the Southwest for Friday at 14,898 MW.

California's SP15 day-ahead on-peak financial swaps moved up \$4, trading between \$37.50 and \$38/MWh on ICE. SP15 off-peak swaps were up about \$8.50 to trade between \$25.50 and \$25.75/MWh on ICE. The California Independent System Operator forecast peak demand for Sunday at 27,291 MW, rising 2,900 MW to today's expected peak of 30,199 MW. The Pacific Gas and Electric city-gates inched down about 5 cents in the morning, trading between \$4.225 and \$4.285/MMBtu on ICE. The high temperature in Burbank, California, was forecast to be 62 on Sunday, down 8 degrees from Saturday's forecast high.

In the Pacific Northwest, Mid-Columbia on-peak day-ahead prices were up about \$2, trading between \$22.50 and \$28.25/MWh on ICE. Mid-C off-peak prices jumped \$10, trading between \$9.50 and \$19.25/MWh after more than a week of single-digit prices. The high temperature in Portland, Oregon, for Sunday was forecast to be 50. The Bonneville Power Administration's wind generation was around 1,000 MW at 2 p.m. EST, and hydro output was at about 15,750 MW. WECC forecast peak demand in Northwest at 53,237 MW Friday, down from the actual peak demand of 54,305 MW on Thursday.

Forwards jumped in the prompt month, as NYMEX gas futures edged up. The March NYMEX gas futures contract rose 1.1 cents to \$4.33/MMBtu on Globex, then settled virtually unchanged at 4.323/MMBtu, 0.4 cent above Thursday's close.

In California, SP15 on-peak February financial swaps gained \$1, with bids at \$38.50 and offers at \$39/MWh on ICE at around 2:30 p.m. EST. SP15 March rose 75 cents to about \$39.25/MWh. SP15 second quarter rose 60 cents to about \$36.75/MWh. NP15 February rose 75 cents to about \$37.25/MWh.

In the Northwest, Mid-Columbia on-peak February jumped \$1.50 to about \$29.50/MWh, and Mid-Columbia March rose 50 cents to about \$31.50/MWh. Mid-Columbia second quarter fell

Day-ahead markets for delivery Jan 31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	34.15	4.95	31.00-36.00	19	500	33.46
Mid-C	24.79	0.44	22.50-32.00	289	7,925	29.51
Palo Verde	32.51	2.84	31.75-33.50	31	825	34.30
Mead	35.00	3.75	35.00-35.00	N.A.	N.A.	35.46
Mona	26.00	3.50	26.00-26.00	N.A.	N.A.	32.12
Four Corners	32.50	3.00	32.50-32.50	N.A.	N.A.	34.47
NP15	38.25	3.00	38.25-38.25	N.A.	N.A.	37.25
SP15	38.00	4.00	38.00-38.00	N.A.	N.A.	37.13
Off-Peak						
COB	20.71	9.78	16.00-24.25	16	500	24.21
Mid-C	15.28	8.65	9.50-19.25	215	5,775	22.36
Palo Verde	22.41	4.83	21.55-23.00	22	575	24.67
Mead	23.75	5.00	23.75-23.75	N.A.	N.A.	26.10
Mona	21.00	8.00	21.00-21.00	N.A.	N.A.	22.86
Four Corners	21.00	5.75	21.00-21.00	N.A.	N.A.	24.10
NP15	26.75	9.00	26.75-26.75	N.A.	N.A.	26.56
SP15	25.50	8.50	25.50-25.50	N.A.	N.A.	26.27

West off-peak includes all day Sunday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	01/27	22.25-23.25
Bal-month	01/26	21.25-22.25
Bal-month	01/25	22.00-23.00
Bal-month	01/24	21.25-22.25
Bal-month (off-peak)	01/24	9.50-10.50
SP15		
Bal-month	01/27	37.50-38.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
Alamitos-3/AES	332	g	Calif.	PMO	Unk	01/10/11
Coolwater-3/GenOn	245	g	Calif.	PMO	Unk	01/08/11
Caribou-4,5/PG&E	122	h	Calif.	PMO, MO	Unk	01/26/11
Encina-1/Cabrillo	103	g	Calif.	PMO	Unk	01/08/11
Encina-2/Cabrillo	104	g	Calif.	PMO	Unk	01/15/11
Encina-3/Cabrillo	110	g	Calif.	PMO	Unk	01/22/11
Helms-1/PG&E	407	h	Calif.	PMO	Unk	09/13/10
Huntington-1/AES	226	g	Calif.	PMO	Unk	01/08/11
Inland Empire-2/IECC	366	g	Calif.	PMO, MO	Unk	01/27/11
La Paloma-1/LPGC	260	g	Calif.	PMO	Unk	01/08/11
Luz Solar-3-7/LSP	175	s	Calif.	MO	Unk	01/18/11
Luz Solar-8,9	184	s	Calif.	MO	Unk	01/18/11
Mandalay-1/GenOn	215	g	Calif.	PMO	Unk	01/26/11
Moss Landing-7/Dynergy	756	g	Calif.	PMO	Unk	01/24/11
Mountainview-4/SCE	525	g	Calif.	PMO	Unk	01/26/11
Ormond Beach-2/Reliant	775	g	Calif.	PMO	Unk	01/18/11
San Onofre-3/SCE	1126	n	Calif.	PMO	Unk	10/09/10
Sunrise-2/EME	590	g	Calif.	PMO	Unk	01/08/11
Vincent/various	316	w	Calif.	PMO	Unk	01/25/11

25 cents to about \$23.35/MWh.

In the Southwest, Palo Verde on-peak February gained \$1.25 to about \$33.25/MWh, and March rose 75 cents to about \$34.75/MWh. Palo Verde second quarter rose 45 cents to about \$36.35/MWh.

WEST POWER MARKETS

Dailies inch higher except in NW; forwards rise

Western day-ahead power prices had small gains Friday morning, with the exception of those in the Northwest, despite more snow in the Oregon forecast and all-day Sunday off-peak trading. Forwards moved higher as April NYMEX gas futures raced higher in later trading.

In the Pacific Northwest, Mid-Columbia on-peak prices for Monday delivery lost about \$3, trading between \$28.50 and \$33/MWh on IntercontinentalExchange. Mid-C off-peak prices for Sunday-Monday delivery also were down roughly \$3, trading between \$16 and \$23.50/MWh. The high temperature in Portland, Oregon, for Sunday was forecast to reach 44, with rain and a low of 39 and possible snow in the valley floor. The Bonneville Power Administration's wind generation was at around 500 MW at 1:30 p.m. EST, and hydro generation was at around 12,000 MW. The Western Electricity Coordinating Council forecast peak demand in the Northwest for Friday at 62,016 MW, which was above actual peak demand on Thursday of 60,456 MW.

In the Desert Southwest, Palo Verde on-peak prices gained \$2, to trade between \$32.25 and \$32.75/MWh on ICE. Palo Verde off-peak prices for Sunday-Monday delivery took on \$3, trading between \$22 and \$25.50/MWh on ICE. The high temperature in Phoenix, Arizona, was forecast to reach 55 on Sunday, with showers, with the high rising to 66 today. Opal, Wyoming, spot gas prices were roughly unchanged, trading between \$3.70 and \$3.80/MMBtu on ICE. WECC forecast peak demand for the Southwest at 14,396 MW for Friday, roughly even to actual peak demand on Thursday of 14,494 MW.

In California, SP15 day-ahead on-peak financial swaps took on \$2, trading between \$35.75 and \$36.25/MWh on ICE. NP15 on-peak swaps were up about 75 cents, trading at \$35.50/MWh on ICE. The California Independent System Operator forecast peak demand for Sunday at 28,381 MW, then rising 2,200 MW today to an expected peak of 30,572 MW. Cal-ISO's wind generation was up Friday morning, listed at 1,315 MW at around 1:30 p.m. EST. The Pacific Gas and Electric city-gates gas prices moved down about 2 cents, trading between \$4.04 and \$4.077/MMBtu on ICE. The high temperature in Burbank, California, was forecast to reach 57 on Sunday.

Forward markets moved higher as NYMEX gas futures jumped in afternoon trading. The April NYMEX gas futures contract rose about 12.1 cents to \$3.993/MMBtu day on day, then settled 13.3 cents higher at \$4.005 in what most analysts said was bounce back from oversold conditions.

In California, SP15 on-peak March financial swaps gained \$1,

Day-ahead markets for delivery Feb 28(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	33.50	-2.25	33.00-34.00	6	150	33.07
Mid-C	30.79	-2.95	28.50-33.00	189	5,100	28.22
Palo Verde	32.38	2.12	32.00-32.50	12	300	34.82
Mead	34.00	2.17	34.00-34.00	N.A.	N.A.	37.02
Mona	33.00	1.00	33.00-33.00	N.A.	N.A.	32.74
Four Corners	33.25	1.00	33.25-33.25	N.A.	N.A.	35.38
NP15	35.50	0.75	35.50-35.50	N.A.	N.A.	37.38
SP15	36.00	2.00	36.00-36.00	N.A.	N.A.	38.13

Off-Peak

COB	20.82	-2.43	20.00-23.00	17	425	18.55
Mid-C	20.28	-1.38	16.00-23.50	185	5,325	15.17
Palo Verde	25.14	4.98	24.00-25.50	10	450	23.78
Mead	26.50	5.00	26.50-26.50	N.A.	N.A.	25.07
Mona	24.25	2.75	24.25-24.25	N.A.	N.A.	21.62
Four Corners	25.00	4.75	25.00-25.00	N.A.	N.A.	22.54
NP15	25.75	2.75	25.75-25.75	N.A.	N.A.	24.44
SP15	26.50	3.75	26.50-26.50	N.A.	N.A.	24.68

West off-peak includes all day Sunday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	02/22	35.00-36.00
Bal-month (off-peak)	02/23	22.75-23.75
Bal-month (off-peak)	02/22	20.50-21.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
Alamitos-4/AES	336	g	Calif.	PMO	Unk	02/17/11
Alamitos-5/AES	497	g	Calif.	PMO	Unk	02/01/11
Belden/PG&E	119	h	Calif.	PMO	Unk	02/07/11
Coolwater-3/GenOn	245	g	Calif.	PMO	Unk	01/08/11
Encina-3/Cabrillo	110	g	Calif.	PMO	Unk	01/22/11
Encina-5/Cabrillo	330	g	Calif.	PMO	Unk	02/23/11
Etiwanda-3/GenOn	320	g	Calif.	PMO	Unk	02/07/11
Helms-1/PG&E	407	h	Calif.	PMO	Unk	09/13/10
Huntington-1/AES	226	g	Calif.	PMO	Unk	01/08/11
Mandalay-3/GenOn	130	g	Calif.	PMO	Unk	02/24/11
Moss Landing-7/Dynegy	756	g	Calif.	PMO	Unk	01/24/11
Pittsburg-5/GenOn	312	g	Calif.	PMO	Unk	02/07/11
Redondo-6/AES	175	g	Calif.	PMO	Unk	02/21/11
Sunrise-2/EME	590	g	Calif.	PMO	Unk	01/08/11

with bids at \$34.50 and offers at \$34.85/MWh on ICE at around 2:30 p.m. EST. SP15 April increased 75 cents to \$33.25/MWh. SP15 second quarter was bumped up 55 cents to \$32.90/MWh. NP15 March was up 50 cents to \$34/MWh.

In the Northwest, Mid-Columbia on-peak March jumped \$1.25 to \$28.25, and April also gained \$1.25 to \$25.75/MWh. Mid-C on-peak second quarter was up 75 cents to \$19.90/MWh.

In the Southwest, Palo Verde on-peak March was 75 cents higher to \$31.50, and April rose 25 cents to \$32/MWh. Palo Verde second quarter increased 40 cents to \$33.65/MWh.

WEST POWER MARKETS

Northwest off-peak negative; forwards mixed

Western day-ahead power prices for Thursday delivery were mixed Wednesday, with Northwest off-peak power trading solidly in negative prices. Forwards also were mixed, as the new prompt-month May NYMEX gas futures contract edged higher on forecasts for cooler-than-average temperatures to start April.

In the Pacific Northwest, Mid-Columbia on-peak prices sank about \$11, trading between \$3 and \$7.50/MWh on IntercontinentalExchange. Mid-C off-peak prices lost about \$3, to trade between negative \$3 and \$0/MWh. The high temperature in Portland, Oregon, was forecast to be 57 today, with warm rain forecast. Rockies spot gas was down roughly 1 cent, trading between \$3.99 and \$4/MMBtu. The Bonneville Power Administration showed wind generation at 2,170 MW at 1:30 p.m. EDT, and hydroelectric output at 13,831 MW. Mid-C next-week on-peak prices were stronger than dailies, trading between \$17 and \$19/MWh on ICE. The Western Electricity Coordinating Council forecast peak demand in the Northwest for Wednesday at 49,720 MW, lower than actual peak demand on Tuesday of 50,435 MW.

In the Desert Southwest Palo Verde on-peak prices were \$4 higher, trading between \$30 and \$31/MWh on ICE. Palo Verde off-peak prices lost \$1, trading between \$6 and \$7.50/MWh on ICE. The high temperature in Phoenix, Arizona, was forecast to reach 91 today, with sun. Opal, Wyoming, spot gas was trading roughly 1 cent higher, between \$3.99 and \$4.03/MMBtu on ICE. WECC forecast peak demand for the Southwest on Wednesday at 14,916 MW, about 400 MW higher than actual peak on Tuesday of 14,519 MW.

In California, SP15 next-day on-peak financial swaps were up \$2, trading between \$35.65 and \$36.50/MWh. NP15 on-peak swaps were also up \$2, trading between \$34.25 and \$34.75/MWh on ICE. The Pacific Gas and Electric city-gates spot gas price slipped about 5 cents, trading between \$4.39 and \$4.45/MMBtu on ICE. The high temperature in Sacramento, California, was forecast to reach 83 today, with sun. The California Independent System Operator showed wind generation at 270 MW at 1:30 p.m. EDT. Cal-ISO forecast peak demand for Wednesday at 28,501 MW, rising to a peak of 29,922 MW for today.

Forward markets were mixed as NYMEX gas futures moved higher. The May NYMEX gas futures contract gained about 9.5 cents to about \$4.358/MMBtu day on day, then settled 9.2 cents higher at \$4.355/MMBtu, reclaiming much of Tuesday's losses on lingering cold weather in gas-consuming areas.

In California, SP15 on-peak April financial swaps gained 50 cents, with bids at \$33.60 and offers at \$33.75/MWh on ICE at around 2:30 p.m. EDT. SP15 May rose 50 cents to \$31.75/MWh. SP15 third quarter increased by about 50 cents to \$45.75/MWh.

Day-ahead markets for delivery Mar 31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	10.87	-7.76	6.00-17.00	22	600	24.09
Mid-C	4.82	-11.81	2.55-7.50	315	9,525	20.58
Palo Verde	30.65	3.90	30.00-31.00	26	925	28.34
Mead	34.19	2.52	33.75-35.00	13	525	31.38
Mona	27.00	-0.50	27.00-27.00	N.A.	N.A.	27.76
Four Corners	30.00	1.00	30.00-30.00	N.A.	N.A.	28.56
NP15	34.25	2.00	34.25-34.25	N.A.	N.A.	32.01
SP15	35.75	1.75	35.75-35.75	N.A.	N.A.	32.72

Off-Peak						
COB	0.64	-2.66	0.50-1.00	17	425	14.17
Mid-C	-0.52	-2.14	-3.00-1.25	174	4,700	11.46
Palo Verde	6.88	-0.64	6.00-7.50	17	575	15.98
Mead	8.50	0.37	8.50-8.50	N.A.	N.A.	17.34
Mona	8.25	1.25	8.25-8.25	N.A.	N.A.	16.29
Four Corners	6.00	-1.00	6.00-6.00	N.A.	N.A.	15.59
NP15	7.50	-1.50	7.50-7.50	N.A.	N.A.	16.71
SP15	9.75	-0.25	9.75-9.75	N.A.	N.A.	17.54

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-week	03/30	5.50-6.50
Next-week	03/30	17.50-18.50
SP15		
Bal-month	03/29	35.00-36.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
Alamitos-1/AES	175	g	Calif.	PMO	Unk	03/18/11
Alamitos-3/AES	332	g	Calif.	PMO	Unk	03/18/11
Alamitos-4/AES	335	g	Calif.	PMO	Unk	03/18/11
Alamitos-6/AES	495	g	Calif.	PMO	Unk	03/10/11
American-1/Calpine	135	g	Calif.	PMO	Unk	03/01/11
Belden/PG&E	119	h	Calif.	PMO	Unk	02/07/11
Crockett Cogen/PG&E	240	g	Calif.	PMO	Unk	03/29/11
Diablo Canyon-2/PG&E	1150	n	Calif.	MO	Unk	03/26/11
El Segundo-4/NRG	335	g	Calif.	PMO	Unk	03/28/11
Encina-1/Cabrillo	106	g	Calif.	MO	Unk	03/29/11
Encina-5/Cabrillo	330	g	Calif.	PMO	Unk	02/23/11
Etiwanda-4/GenOn	320	g	Calif.	PMO	Unk	03/14/11
Hatchet Ridge/Pattern	102	w	Calif.	MO	Unk	03/26/11
Helms-1/PG&E	404	h	Calif.	PMO, MO	Unk	03/27/11
Intermountain-1/IPA	900	c	Utah	PMO	Unk	03/12/11
La Paloma-1/LaPaGenco	260	g	Calif.	PMO	Unk	03/09/11
Mandalay-1/GenOn	215	g	Calif.	PMO	Unk	03/06/11
Mandalay-2/GenOn	215	g	Calif.	PMO	Unk	02/26/11
Metcaif/Calpine	593	g	Calif.	PMO	Unk	03/25/11
Moss Landing-6/Dynegy	754	g	Calif.	PMO	Unk	03/19/11

NP15 April rose 25 cents to \$32/MWh.

In the Northwest, front-end forward power was getting pulled down with day-ahead prices in negative territory. Mid-Columbia on-peak April plunged \$4 to \$17, and May dropped \$1 to about \$12.50/MWh. Mid-C third-quarter packages were up 10 cents to \$35.10/MWh.

In the Southwest, Palo Verde April was bumped up 25 cents to about \$31.75, and May was unchanged at \$33.25/MWh. Palo

WEST POWER MARKETS

Dailies move lower; forwards up with NYMEX

Western day-ahead power prices tumbled early Thursday as packages traded for weekend delivery and lower forecast loads, while forwards in the region advanced as the NYMEX June natural gas futures contract settled at \$4.571/MMBtu, a 16.3-cent jump from Wednesday's settlement of \$4.408/MMBtu.

In the Southwest, Palo Verde on-peak for Friday and Saturday delivery was averaging around \$31/MWh on IntercontinentalExchange, about \$6.70 lower than the previous day. The Western Electricity Coordinating Council forecast Southwest demand peaking Thursday at 16,713 MW, up from Wednesday's peak of 15,465 MW.

In California, NP15 on-peak financial dailies were down about \$5 with values floating in the low \$30s/MWh on ICE. SP15 on-peak financial dailies fell more than \$6 trading in the low \$30s/MWh on ICE. The California Independent System Operator forecast Thursday peak around 29,326 MW and today at about 27,563 MW. Demand in the Cal-ISO footprint for next week is expected to jump above 30,000 MW. Wind generation in the Cal-ISO was around 1,200 MW around 2:00 p.m. EDT.

In the Northwest, Mid-Columbia on-peak dailies fell about \$4 trading in the upper \$20s/MWh on ICE. The Bonneville Power Administration showed wind generation in its region close to 2,140 MW and hydro generation near 11,700 MW at 2:00 p.m. EDT. WECC forecast Northwest load peaking at 47,697 MW Thursday, lower than Wednesday's peak of 48,206 MW.

Western term power markets were higher Thursday with NYMEX natural gas futures rising with the weekly gas storage inventory number coming in below consensus. In California, SP15 on-peak May financial swaps rose 75 cents with bids at \$35.55 and offers at \$36/MWh on ICE around 2:30 p.m. EDT. SP15 June was 75 cents higher to \$34.50/MWh. SP15 third quarter gained nearly \$1 to around \$46.40/MWh. NP15 May rose 75 cents to about \$32.50/MWh. In the Northwest, Mid-Columbia on-peak May slipped 25 cents to about \$18.75/MWh and June was up about 15 cents to just below \$12/MWh. Mid-C Q3 rose 75 cents to about \$33.40/MWh. In the Southwest, Palo Verde May and June both jumped \$1.25 to \$37/MWh. Palo Verde Q3 gained 90 cents to about \$44/MWh.

Day-ahead markets for delivery Apr 29, 30 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	29.90	-4.28	29.75-30.00	5	125	31.29
Mid-C	28.81	-4.08	27.00-29.75	172	4,300	29.47
Palo Verde	31.00	-6.75	31.00-31.00	N.A.	N.A.	34.73
Mead	31.75	-6.51	31.75-31.75	N.A.	N.A.	35.70
Mona	26.00	-6.50	26.00-26.00	N.A.	N.A.	31.18
Four Corners	31.00	-5.50	31.00-31.00	N.A.	N.A.	33.91
NP15	30.50	-5.00	30.50-30.50	N.A.	N.A.	33.10
SP15	32.50	-6.00	32.50-32.50	N.A.	N.A.	36.01
Off-Peak						
COB	13.00	-0.50	13.00-13.00	N.A.	N.A.	11.58
Mid-C	10.20	-0.67	8.50-12.75	283	7,500	8.99
Palo Verde	16.31	-1.01	15.75-16.50	49	1,300	19.36
Mead	17.00	-0.13	17.00-17.00	N.A.	N.A.	18.96
Mona	11.50	-0.75	11.50-11.50	N.A.	N.A.	13.91
Four Corners	15.50	0.50	15.50-15.50	N.A.	N.A.	15.72
NP15	13.25	0.00	13.25-13.25	N.A.	N.A.	14.34
SP15	13.75	-1.50	13.75-13.75	N.A.	N.A.	16.48

West markets are for Friday and Saturday delivery

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Next-week	04/28	29.00-30.00
Next-week	04/27	27.50-28.50
Next-week	04/25	23.50-24.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
Belden/P&G&E	119	h	Calif.	PMO	Unk	02/07/11
Columbia/Energy/NW	1146	n	Wash.	PMO	Unk	04/06/11
Delta Aggregate/Calpine	880	g	Calif.	PMO	Unk	04/27/11
Donald VonRaesfeld/SVP	149	g	Calif.	PMO	Unk	04/01/11
El Segundo-3/NRG	335	g	Calif.	MO	Unk	03/30/11
Gilroy Cogeneration/Calpine	135	g	Calif.	PMO	Unk	04/07/11
Helms-1/P&G&E	407	h	Calif.	PMO	Unk	04/27/11
Helms-2/P&G&E	407	h	Calif.	PMO	Unk	04/27/11
Helms-3/P&G&E	404	h	Calif.	PMO, MO	Unk	03/27/11
Moss Landing-1/Dynegy	510	g	Calif.	PMO	Unk	04/06/11
Otay Mesa/Calpine	603	g	Calif.	PMO, MO	Unk	04/25/11
Palo Verde-2/APS	1314	n	Ariz.	PMO	Unk	04/05/11
Redondo-7/AES	506	g	Calif.	MO	Unk	04/27/11
Redondo-8/AES	495	g	Calif.	PMO	Unk	04/04/11
Shell Refinery/Shell	100	o	Calif.	MO	Unk	04/26/11
Sutter/Calpine	525	g	Calif.	PMO	Unk	04/20/11

WEST POWER MARKETS

On-peak prices for Tuesday delivery stronger

Western day-ahead on-peak prices for Tuesday delivery were stronger Friday, while off-peak shed the premium they had gained for all-day Sunday and Monday delivery. Terms in the West were mixed. The NYMEX July natural gas futures contract rose 15.8 cents, or 3.6%, to settle at \$4.518/MMBtu.

In the Pacific Northwest, Mid-Columbia on-peak prices were \$5 higher from Wednesday, trading around \$25.50/MWh on IntercontinentalExchange. Mid-C off-peak prices lost \$2, trading between negative-\$5.50 and negative-\$3/MWh on ICE. The high temperature in Portland, Oregon was forecast in the low-60s with lows in the low-50s. Rockies spot gas prices slipped about 7 cents to trade around \$3.95/MMBtu. The Bonneville Power Administration showed wind generation around 2,210 MW, and hydro generation at 12,970 MW, at 1:30 p.m. EDT. BPA forecast wind generation peaking around 2,800 MW around noon PDT.

In the desert Southwest, Palo Verde on-peak prices took on \$1, trading around \$35/MWh on ICE. Palo Verde off-peak prices lost \$7, trading around \$5.50/MWh on ICE. The high temperature in Phoenix, Arizona was forecast in the mid-80s today, about 13 degrees below normal. OPAL spot gas lost about 11 cents, trading around \$3.95/MMBtu on ICE.

In California SP15 on-peak financial swaps were up \$4.50, trading around \$32.50/MWh on ICE. SP15 off-peak was down \$5, trading around \$4.50/MWh. NP15 on-peak swaps were up \$5 trading at \$31/MWh. The high temperature in Sacramento, California was forecast at 78 degrees today. PG&E spot gas prices climbed 5 cents, trading around \$4.59/MMBtu on ICE. The California Independent System Operator forecast the state's demand to peak today at 29,095 MW, a nearly 3,000 MW rise from Monday's peak. Cal-ISO showed wind generation was at about 1,550 MW at 1:30 p.m. EDT.

Western term markets were split ahead of the Memorial Day weekend with the front of the curve declining in the Northwest and rising in other parts of the region. In the Northwest, Mid-Columbia on-peak June fell 75 cents with bids at \$15.50 and offers at \$16.25/MWh on ICE around 2:30 pm EDT. The prompt month had been up as much as 75 cents in morning trading. Mid-C off-peak June slipped 75 cents with bids at negative \$5 and offers at negative \$4/MWh. Mid-Columbia on-peak third-

Day-ahead markets for delivery May 31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	27.18	3.43	26.75-27.75	17	425	28.37
Mid-C	25.40	3.99	23.00-26.50	221	6,000	25.40
Palo Verde	34.62	0.78	32.50-35.25	29	875	35.36
Mead	33.75	-0.25	33.75-33.75	N.A.	N.A.	35.43
Mona	22.50	1.50	22.50-22.50	N.A.	N.A.	29.92
Four Corners	35.00	1.00	35.00-35.00	N.A.	N.A.	35.69
NP15	31.00	4.25	31.00-31.00	N.A.	N.A.	33.18
SP15	32.25	4.25	32.25-32.25	N.A.	N.A.	34.91
Off-Peak						
COB	-1.04	-1.74	-1.50-0.75	15	425	6.71
Mid-C	-4.42	-2.24	-5.50-3.00	162	4,600	4.38
Palo Verde	5.97	-6.56	5.00-7.50	8	200	14.85
Mead	5.20	-8.20	4.00-5.50	7	525	15.09
Mona	2.00	-8.00	2.00-2.00	N.A.	N.A.	11.31
Four Corners	5.25	-2.00	5.25-5.25	N.A.	N.A.	13.19
NP15	4.25	-3.75	4.25-4.25	N.A.	N.A.	11.22
SP15	4.50	-5.00	4.50-4.50	N.A.	N.A.	12.21

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-week	05/27	21.25-22.25
Bal-month (off-peak)	05/25	-1.00-0.00
Bal-month (off-peak)	05/24	-3.50-2.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
Belden/PG&E	119	h	Calif.	PMO	Unk	02/07/11
Columbia/EnergyNW	1146	n	Wash.	PMO	Unk	04/06/11
Colusa/PG&E	668	g	Calif.	PMO, MO	Unk	05/22/11
Devil Canyon-1-4/CDWR	240	h	Calif.	PMO	Unk	05/26/11
Diablo Canyon-2/PG&E	1150	n	Calif.	PMO	Unk	05/01/11
Encina-2/Cabrillo	104	g	Calif.	PMO	Unk	05/25/11
Encina-4/Cabrillo	300	g	Calif.	PMO	Unk	04/30/11
Encina-5/Cabrillo	330	g	Calif.	PMO	Unk	05/26/11
Helms-2/PG&E	407	h	Calif.	PMO	Unk	05/08/11
Huntington-4/AES	227	g	Calif.	MO	Unk	05/26/11
Inland Empire-1/Inland	376	g	Calif.	PMO	Unk	05/22/11
Los Medanos/Calpine	561	g	Calif.	PMO	Unk	05/25/11
Moss Landing-2/Dynegy	510	g	Calif.	PMO	Unk	05/09/11
Sunrise-2/Edison	490	g	Calif.	PMO	Unk	05/06/11

quarter moved up 10 cents to about \$33.35/MWh. In California, SP15 on-peak June financial swaps climbed 50 cents with bids at \$34.75 and offers at \$35.50/MWh on ICE. SP15 Q3 moved up \$1 to about \$45.90/MWh. NP15 June climbed \$1 to about \$32.75/MWh. In the Southwest, Palo Verde on-peak June rose \$1 to about \$39.25/MWh and Q3 rose 75 cents to about \$44.75/MWh.

WEST POWER MARKETS

Most dailies move higher; terms advance

Most western day-ahead on-peak prices for Wednesday-Thursday delivery were bumped up Tuesday by higher spot gas prices and continued heat in the Southwest. Forwards in the West advanced as the NYMEX July natural gas futures contract closed at \$4.357/MMBtu on Tuesday, 10.1 cents higher than Monday's settle price.

In the Desert Southwest, Palo Verde on-peak next-day prices were about \$1 higher, trading around \$44.75/MWh on IntercontinentalExchange. Palo Verde off-peak prices gained about \$4.50, trading between \$11 and \$18/MWh on ICE. High temperatures in Phoenix, Arizona were forecast around 110 degrees today and Thursday, a few degrees lower than Tuesday's forecast high. OPAL spot gas was up 14 cents, trading around \$4.09/MMBtu on ICE. The Western Electricity Coordinating Council forecast Southwest demand peaking around 27,655 MW Tuesday, down slightly from Monday's peak of 27,900 MW.

In the Pacific Northwest, Mid-Columbia on-peak next-day prices lost about \$4 day-on-day, trading between \$17.50 and \$25.75/MWh on ICE. Mid-C off-peak prices were flat, trading around negative-\$4.50/MWh on ICE. The forecast for Portland, Oregon showed highs around 67 degrees today with showers. Rockies spot gas traded up about 9 cents, around \$4.055/MMBtu on ICE. The Bonneville Power Administration showed wind generation at 285 MW at 2 p.m. EDT, and hydroelectric output at 14,044 MW. Wind generation in BPA's balancing area was forecast peaking around 2,750 MW at 5 p.m. EDT. WECC forecast Northwest load peaking Tuesday at 51,157 MW, down from Monday's peak of 51,990 MW.

In Southern California, SP15 next-day on-peak financial swaps gained about \$3.50, trading around \$36.75/MWh on ICE. SP15 off-peak took on \$4.25 to \$16.75/MWh. SP15 on-peak next week swaps were bid at \$52 and offered at \$55/MWh on ICE. PG&E Citygates spot gas was up about 6 cents to 4.60/MMBtu on ICE. The high temperature in Sacramento, California was forecast in the mid-70s Wednesday with showers. The California Independent System Operator showed wind generation around 645 MW at 2 p.m. EDT. The ISO forecast the state's demand to peak Tuesday at 34,550 MW, falling about 2,500 MW today to 32,080 MW.

Most western July on-peak terms were up Tuesday, as natural gas prices strengthened. In California, SP15 on-peak July finan-

Day-ahead markets for delivery Jun 29,30(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
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On-Peak

COB	24.70	-5.97	23.25-28.00	15	400	29.46
Mid-C	19.18	-4.95	17.50-26.25	293	8,100	24.67
Palo Verde	44.17	0.45	43.75-45.00	26	825	38.51
Mead	44.41	0.56	43.50-46.00	9	350	38.86
Mona	43.00	2.00	43.00-43.00	N.A.	N.A.	31.76
Four Corners	46.75	0.00	46.75-46.75	N.A.	N.A.	40.02
NP15	35.00	-1.00	35.00-35.00	N.A.	N.A.	35.33
SP15	36.75	3.50	36.75-36.75	N.A.	N.A.	36.98

Off-Peak

COB	-0.31	-0.35	-0.50-0.00	13	325	1.68
Mid-C	-5.23	-0.69	-6.50-0.10	183	4,975	-2.36
Palo Verde	12.83	2.73	11.00-18.00	26	875	10.30
Mead	13.09	2.86	11.50-15.50	15	575	10.81
Mona	13.00	3.00	13.00-13.00	N.A.	N.A.	6.28
Four Corners	15.25	5.75	15.25-15.25	N.A.	N.A.	8.70
NP15	12.00	1.50	12.00-12.00	N.A.	N.A.	8.36
SP15	17.00	4.50	17.00-17.00	N.A.	N.A.	10.69

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-week	06/28	19.50-20.50
Bal-month	06/27	23.25-24.25
Bal-month	06/24	28.00-29.25
Bal-month	06/23	25.50-26.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
Belden/PG&E	119	h	Calif.	PMO	Unk	02/07/11
Columbia/EnergyNW	1146	n	Wash.	PMO	Unk	04/06/11
Colusa/PG&E	668	g	Calif.	PMO, MO	Unk	06/27/11
Encina-1/PG&E	106	g	Calif.	MO	Unk	06/27/11
Inland Empire-2/Edison	366	g	Calif.	MO	Unk	06/15/11
Mountainview-4/Edison	525	g	Calif.	PMO	Unk	06/26/11

cial swaps gained \$1.25 with bids at \$48.50 and offers at \$49/MWh on ICE around 2:30 p.m. EDT. SP15 August swaps rose 75 cents to about \$49.50/MWh, and the third quarter climbed 90 cents to about \$48.50/MWh. NP15 July jumped \$1.50 to about \$45.50/MWh. In the Northwest, Mid-Columbia on-peak July fell 25 cents to about \$29.50/MWh, August rose 25 cents to about \$37.75/MWh, and Mid-Columbia Q3 inched up 20 cents to about \$35.85/MWh. In the Southwest, Palo Verde on-peak July rose 25 cents to about \$47.75/MWh, and August gained 75 cents to about \$46.75/MWh. Palo Verde Q3 was up 50 cents to about \$45.85/MWh.

WEST POWER MARKETS

Day-ahead prices surge for Sunday delivery

Day-ahead power prices shot up Thursday even as spot natural gas prices slipped and normal temperatures were expected. The NYMEX September gas futures contract declined by 7.4 cents to settle at \$4.244/MMBtu after the Energy Information Administration reported a slightly larger-than-anticipated injection to gas storage.

In the Pacific Northwest, Mid-Columbia hub off-peak prices gained about \$5 on IntercontinentalExchange trading between \$15 and \$24/MWh. Mid-C on-peak next-week was bid at \$38 and offered at \$39/MWh. Off-peak next-week had bids at \$3.50 but no offers.

Portland, Oregon, had high temperatures forecast in the low 80s Sunday, normal for this time of year. The Bonneville Power Administration's wind generation was 1 MW at 2 p.m. EDT, and hydro generation around 11,485 MW. BPA forecast its wind generation peaking Thursday close to 2,150 MW around 7 p.m. PDT. Rockies spot gas prices shed about 7 cents to trade around \$3.97/MMBtu on ICE.

In California SP15 off-peak financial swaps jumped up \$13.50 to trade around \$36.50/MWh. NP15 off-peak swaps took on \$10, with bids at \$31.65 and offers at \$34.75/MWh. SP15 next-week swaps were bid at \$45 and offered at \$46.50/MWh. The California Independent System Operator's wind generation was around 325 MW at 2 p.m. EDT. The ISO forecast Sunday's peak load around 37,780 MW, rising about 4,225 MW Monday to 42,005 MW. PG&E city-gate gas prices lost about 3 cents, trading around \$4.54/MMBtu on ICE. High temperatures in Sacramento, California, were forecast in low to mid-90s Sunday, and Burbank was expected to have highs in the mid-80s.

In the Desert Southwest, Palo Verde off-peak prices jumped about \$12 to around \$35/MWh on ICE. The high temperature in Phoenix, Arizona, was forecast around 106 degrees Sunday. OPAL spot gas prices sank about 10 cents, trading around \$3.925/MMBtu on ICE.

Most western August on-peak terms tumbled, as did natural gas prices in late trading. In California, SP15 on-peak August financial swaps fell 25 cents with bids at \$44.10 and offers at \$44.50/MWh on ICE around 2:30 p.m. EDT. SP15 September swaps lost 75 cents to about \$43.75/MWh, and the fourth quarter fell 30 cents to about \$41.35/MWh.

Day-ahead markets for delivery Jul 31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	N.A.	N.A.	N.A.-N.A.	N.A.	N.A.	36.89
Mid-C	N.A.	N.A.	N.A.-N.A.	N.A.	N.A.	31.40
Palo Verde	N.A.	N.A.	N.A.-N.A.	N.A.	N.A.	45.23
Mead	N.A.	N.A.	N.A.-N.A.	N.A.	N.A.	45.11
Mona	N.A.	N.A.	N.A.-N.A.	N.A.	N.A.	44.16
Four Corners	N.A.	N.A.	N.A.-N.A.	N.A.	N.A.	47.99
NP15	N.A.	N.A.	N.A.-N.A.	N.A.	N.A.	38.54
SP15	N.A.	N.A.	N.A.-N.A.	N.A.	N.A.	41.20

Off-Peak

COB	24.71	6.00	16.00-26.65	14	475	10.70
Mid-C	19.68	3.90	15.00-24.00	85	2,450	6.19
Palo Verde	36.81	14.06	35.00-38.00	13	325	23.60
Mead	39.50	15.25	39.50-39.50	N.A.	N.A.	24.32
Mona	28.00	8.00	28.00-28.00	N.A.	N.A.	19.96
Four Corners	30.00	8.75	30.00-30.00	N.A.	N.A.	22.98
NP15	32.25	9.50	32.25-32.25	N.A.	N.A.	19.56
SP15	36.50	13.50	36.50-36.50	N.A.	N.A.	22.38

West off-peak is for all day Sunday delivery

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-week	07/26	18.25-19.25
Bal-month	07/26	34.50-35.50
Bal-month	07/22	36.00-37.00
Bal-month (off-peak)	07/26	18.00-19.00
Bal-month (off-peak)	07/25	14.75-15.75
Bal-month (off-peak)	07/22	12.00-13.00
Next-week	07/26	39.50-40.50
SP15		
Bal-month	07/22	43.00-44.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
Columbia/EnergyNW	1146	n	Wash.	PMO	Unk	04/06/11
Inland Empire-2/Edison	366	g	Calif.	MO	Unk	06/15/11
Mountainview-3/Edison	525	g	Calif.	PMO	Unk	07/27/11
Mountainview-4/Edison	525	g	Calif.	PMO	Unk	07/26/11

NP15 August rose 25 cents to about \$42.25/MWh. In the Northwest, Mid-Columbia on-peak August dropped \$1 to about \$37/MWh, September shed 75 cents to about \$37.75/MWh, and Q4 fell 40 cents to about \$38.50/MWh. In the Southwest, Palo Verde on-peak August was down 75 cents to about \$45/MWh, September fell 50 cents to about \$40/MWh, and Q4 fell 35 cents to about \$37.90/MWh.

WEST POWER MARKETS

Dailies give ground as terms surge

Weaker spot gas and milder temperatures pushed Western day-ahead on-peak prices lower Tuesday. Western term markets were stronger, and the NYMEX October natural gas futures contract rose 7.9 cents to settle at \$3.909/MMBtu.

In the Pacific Northwest, Mid-Columbia on-peak next-day prices traded around \$32/MWh on IntercontinentalExchange, down 70 cents from Monday trades. Mid-C off-peak traded \$1 lower, around \$21/MWh on ICE. Mid-C next-week swaps were bid at \$37 and offered at \$41.50/MWh, while Rockies spot gas gave up 8 cents going to \$3.675/MMBtu on ICE. High temperatures in Portland, Oregon were forecast in the low 70s for Wednesday, with lows in the mid-50s. The Bonneville Power Administration's wind generation was around 2,030 MW around 2 p.m. EDT, and hydropower at 8,730 MW. Wind was expected to peak around 2,700 MW at 2 p.m. PDT. The Western Electricity Coordinating Council forecast Northwest load peaking Tuesday at 53,895 MW, about 1,200 MW higher than Monday's peak of 52,675 MW.

In the Desert Southwest, Palo Verde on-peak next-day prices traded around \$39.50/MWh on ICE, down \$2.65 from the index. Off-peak prices shed \$1.25 to \$24.75/MWh. Wednesday's high temperature in Phoenix was forecast at 111 degrees. OPAL spot gas tumbled 7 cents on ICE to \$3.745/MMBtu. WECC forecast Southwest load peaking at 28,250 MW Tuesday, up from Monday's peak of 26,665 MW.

In California, SP15 next-day on-peak financial swaps lost \$4 trading around \$40.50/MWh. SP15 off-peak swaps were trading \$2 lower around \$25/MWh. NP15 on-peak swaps gave up \$1.50 to trade around \$39/MWh on ICE. SP15 on-peak next-week swaps were bid at \$45 and offered at \$53.75/MWh on ICE. Pacific Gas & Electric city-gates spot was unchanged around \$4.225/MMBtu on ICE. The high temperature in Sacramento was forecast for Wednesday in the upper 80s, with lows in the high 50s. Burbank was expected to reach a high of 86 on Wednesday. The California Independent System Operator's wind generation was at 490 MW at 9:30 a.m. EDT. The ISO predicted its load to peak Tuesday at 38,945 MW, falling Wednesday to 37,190 MW.

In the Northwest term markets, Mid-Columbia on-peak September rose \$1.65 with bids at \$35.75 and offers at \$35.95/MWh on ICE around 2:30 p.m. EDT. Mid-C off-peak September

Day-ahead markets for delivery Aug 31(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	35.28	-1.76	33.50-36.35	10	275	37.05
Mid-C	31.93	-0.76	30.75-32.85	181	4,875	34.10
Palo Verde	39.52	-2.63	39.00-40.00	33	1,050	42.37
Mead	40.31	-1.94	40.15-40.50	10	325	43.34
Mona	37.00	-4.00	37.00-37.00	N.A.	N.A.	41.72
Four Corners	39.25	-3.50	39.25-39.25	N.A.	N.A.	43.31
NP15	37.25	-3.25	37.25-37.25	N.A.	N.A.	39.17
SP15	40.50	-4.00	40.50-40.50	N.A.	N.A.	42.25
Off-Peak						
COB	22.43	-2.63	22.00-23.00	14	375	22.78
Mid-C	20.70	-1.27	19.00-21.25	92	2,475	20.04
Palo Verde	24.34	-1.66	24.00-24.75	6	200	26.10
Mead	25.00	-2.75	25.00-25.00	N.A.	N.A.	27.59
Mona	20.50	-2.50	20.50-20.50	N.A.	N.A.	21.72
Four Corners	23.00	-2.25	23.00-23.00	N.A.	N.A.	24.82
NP15	24.25	-3.50	24.25-24.25	N.A.	N.A.	25.44
SP15	25.00	-2.00	25.00-25.00	N.A.	N.A.	26.18

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	08/25	33.00-34.00
SP15		
Bal-month	08/25	41.00-41.75

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Columbia/EnergyNW	1146	n	Wash.	PMO, MO" Unk	04/06/11	
La Paloma-1/LPGC	260	g	Calif.	PMO, MO" Unk	08/29/11	
Mexlcall-1/Sempra	625	g	Mex	PMO, MO" Unk	08/09/11	
Mountainview-3/Edison	525	g	Calif.	PMO	Unk	08/22/11
Mountainview-4/Edison	525	g	Calif.	PMO	Unk	08/27/11
Ormond Beach-1/GenOn	741	g	Calif.	MO	Unk	08/01/11
Ormond Beach-2/GenOn	775	g	Calif.	MO	Unk	08/01/11
Palomar/SDG&E	565	g	Calif.	PMO	Unk	08/28/11

jumped 85 cents to about \$26.60/MWh. Mid-Columbia on-peak fourth-quarter gained 55 cents to about \$36.20/MWh. In California, SP15 on-peak September financial swaps were \$2.05 stronger with bids at \$42.75 and offers at \$43.15/MWh on ICE. SP15 Q4 took on 90 cents to about \$39.25/MWh. NP15 September climbed \$1.80 to about \$40.90/MWh.

In the Southwest, Palo Verde on-peak September gained \$1.65 to about \$39.50/MWh, and Q4 was up 70 cents to about \$35.45/MWh.

WEST POWER MARKETS

Dailies and terms drop back in region

Western day-ahead prices for Friday delivery ahead of the new-month lost ground Wednesday morning, pushed lower by weaker spot gas prices. Term markets also dipped as the NYMEX October natural gas futures contract expired 6.8 cents lower at \$3.759/MMBtu. The NYMEX November contract, which took prompt-month position, settled at \$3.799, down 7.6 cents.

In the Pacific Northwest, Mid-Columbia on-peak next-day prices shed \$1 to trade around \$31/MWh on IntercontinentalExchange. Mid-C off-peak traded in a close spread to on-peak, pushed together by low wind generation and lower overnight temperatures, around \$28.50/MWh and 65 cents below the for-Wednesday index. High temperatures in Portland, Oregon, were forecast in the low 70s Friday, a drop of 11 degrees from Thursday's expected high. The Bonneville Power Administration's wind generation was at 60 MW at 1:45 p.m. EDT, and hydropower was around 8,335 MW.

In the desert Southwest, Palo Verde on-peak next-day prices traded around \$37.75/MWh on ICE, down 50 cents on the index. Off-peak prices stayed still around \$23.60/MWh. The high temperature in Phoenix was forecast steady around 105 degrees Friday. OPAL spot gas slipped 7 cents on ICE to \$3.73/MMBtu.

In California, SP15 next-day on-peak financial swaps moved down \$3.50 trading around \$38.25/MWh, and SP15 off-peak was \$1 lower, around \$26.50/MWh. NP15 on-peak swaps shed \$2 with bids at \$38.75 and offers at \$39/MWh, and off-peak traded at \$27.50/MWh. SP15 on-peak next-week swaps showed bids at \$35 and offers at \$36.50/MWh on ICE. Sacramento had high temperatures forecast in the mid-80s Friday, 8 degrees lower than Thursday's forecast high. Burbank highs were expected to remain in the low 80s. The California Independent System Operator's wind generation was around 30 MW at 1:45 p.m. EDT. The ISO predicted its load to peak Friday at 36,225 MW, a drop of about 800 MW from Thursday's expected peak of 37,025.

In the Northwest term markets, Mid-C on-peak October lost 75 cents with bids at \$31.20 and offers at \$31.30/MWh on ICE around 2:30 p.m. EDT. Mid-C off-peak October dropped 80 cents to about \$27.80/MWh. Mid-Columbia on-peak fourth-quarter fell 60 cents

Day-ahead markets for delivery Sep 30(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	34.73	-2.28	34.50-35.25	25	650	39.02
Mid-C	30.71	-1.30	29.75-33.00	132	3,300	33.80
Palo Verde	37.49	-0.79	37.00-38.25	21	600	40.03
Mead	38.50	-1.50	38.50-38.50	N.A.	N.A.	40.77
Mona	33.00	-4.00	33.00-33.00	N.A.	N.A.	36.09
Four Corners	35.00	-1.50	35.00-35.00	N.A.	N.A.	39.25
NP15	39.00	-2.00	39.00-39.00	N.A.	N.A.	39.71
SP15	38.25	-3.50	38.25-38.25	N.A.	N.A.	41.53

Off-Peak						
COB	30.50	-0.29	30.50-30.50	N.A.	N.A.	30.00
Mid-C	28.30	-0.83	27.50-28.75	97	2,625	27.96
Palo Verde	23.61	-0.02	23.00-24.25	21	825	26.33
Mead	25.00	0.25	25.00-25.00	N.A.	N.A.	27.35
Mona	21.00	-1.50	21.00-21.00	N.A.	N.A.	22.39
Four Corners	23.25	-0.25	23.25-23.25	N.A.	N.A.	25.31
NP15	27.50	-1.50	27.50-27.50	N.A.	N.A.	28.46
SP15	26.50	-1.00	26.50-26.50	N.A.	N.A.	28.96

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-week	09/28	30.50-31.50
Bal-month	09/26	31.50-32.50
Bal-month	09/23	31.25-32.25
Bal-month (off-peak)	09/23	27.50-28.50
SP15		
Bal-month	09/23	38.50-39.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Eastwood-7/SCE	200	h	Calif.	PMO, MO	Unk	09/12/11
Helms-2/PG&E	407	h	Calif.	MO	Unk	09/22/11
Moss Landing-6/Dynergy	754	g	Calif.	PMO	Unk	09/26/11
Ormond Beach-1/GenOn	741	g	Calif.	MO	Unk	08/01/11
Mountainview-3/Edison	525	g	Calif.	PMO	Unk	09/27/11
Mountainview-4/Edison	525	g	Calif.	PMO	Unk	09/27/11

to about \$34.05/MWh. In California, SP15 on-peak October financial swaps were 90 cents weaker with bids at \$37.40 and offers at \$37.65/MWh on ICE. SP15 Q4 dropped 65 cents to about \$36.85/MWh. NP15 October shed 35 cents to about \$36.65/MWh. In the Southwest, Palo Verde on-peak October dipped 25 cents to about \$35/MWh and Q4 inched down 10 cents to about \$34/MWh.

WEST POWER MARKETS

Dailies edge up as terms gain ground

Western day-ahead on-peak prices for Monday delivery were slightly stronger Friday, while temperatures were forecast steady. Term markets surged as the NYMEX December natural gas futures contract settled at \$3.923/MMBtu, 15.9 cents above Thursday's \$3.764/MMBtu close.

In the Pacific Northwest, Mid-Columbia hub on-peak gained \$1.10 on IntercontinentalExchange, trading around \$29.25/MWh. Off-peak prices, trading for all-day Sunday and regular Monday delivery, gained 50 cents over the Platts for-Friday index, trading around \$26/MWh. High temperatures in Portland, Oregon, were forecast in the low- to mid-50s through Monday with rain on Sunday and lows in the upper 30s to mid-40s. The Bonneville Power Administration's wind generation was at 10 MW at 1:30 p.m. EDT, while hydro generation was at 9,330 MW. Rockies spot gas dropped 6 cents day-on-day, trading around \$3.40/MMBtu on ICE.

In California, SP15 on-peak financial swaps were \$1.75 higher on ICE, trading around \$34.75/MWh. Off-peak prices gained \$5 going to \$29.50/MWh. NP15 on-peak swaps were unchanged with bids at \$34.25 and offers at \$35/MWh on ICE. Off-peak was bid at \$28.50/MWh, a \$2.75 premium to dailies, without offers. SP15 bal-week had bids at \$33.05 and offers at \$38/MWh, while next week was bid at \$34 and offered at \$38/MWh. NP15 bal-week was bid at \$32.80 and offered at \$40.50/MWh on ICE. High temperatures in California through Monday ranged from the upper-70s in Sacramento to the low-80s in Burbank. Lows were forecast in the upper 40s to low-50s. The California Independent System Operator's wind generation was around 90 MW at 1:30 p.m. EDT. The ISO forecast Sunday's peak load around 27,210 MW, and Monday's around 29,640 MW.

Pacific Gas & Electric city-gate gas prices stayed still, trading around \$3.855/MMBtu on ICE.

In the Desert Southwest, Palo Verde on-peak prices stayed still, trading around \$34/MWh. Off-peak prices gained about \$2.75 to around \$27.75/MWh on ICE. High temperatures in Phoenix were forecast to inch up to around 90 degrees Monday, with lows in the lower 60s.

In the Northwest term markets, Mid-C on-peak November gained \$1.25 with bids at \$31.75 and offers at \$32.15/MWh on the ICE around 2:30 p.m. EDT. Mid-C on-peak December picked up \$1.25 to about \$36.75/MWh. Mid-C on-peak first-quarter took on 70 cents at about \$31.40/MWh. In California, SP15 on-peak November financial swaps were \$1.65 stronger with bids at \$34.55 and offers at \$34.90/MWh on ICE. SP15 on-peak December climbed

Day-ahead markets for delivery Oct 31(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	31.00	0.21	31.00-31.00	N.A.	N.A.	28.92
Mid-C	29.11	0.99	28.75-29.75	240	6,325	26.83
Palo Verde	33.87	-0.11	33.00-34.25	35	975	34.79
Mead	33.75	0.50	33.75-33.75	N.A.	N.A.	34.52
Mona	32.00	1.25	32.00-32.00	N.A.	N.A.	30.63
Four Corners	33.00	0.00	33.00-33.00	N.A.	N.A.	32.98
NP15	34.75	0.25	34.75-34.75	N.A.	N.A.	34.36
SP15	34.75	1.75	34.75-34.75	N.A.	N.A.	34.78
Off-Peak						
COB	27.91	1.66	27.00-30.50	20	500	26.37
Mid-C	26.09	0.55	24.50-29.00	68	1,950	24.96
Palo Verde	28.00	3.00	28.00-28.00	N.A.	N.A.	24.22
Mead	28.25	3.50	28.25-28.25	N.A.	N.A.	24.27
Mona	27.00	3.75	27.00-27.00	N.A.	N.A.	21.48
Four Corners	27.25	3.25	27.25-27.25	N.A.	N.A.	22.97
NP15	28.75	3.00	28.75-28.75	N.A.	N.A.	25.81
SP15	29.50	5.00	29.50-29.50	N.A.	N.A.	24.83

West off-peak includes all day Sunday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month (off-peak)	10/26	26.00-27.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Colgate-2/PCWA	176	h	Calif.	PMO	Unk	10/24/11
Crockett/CCLP	240	g	Calif.	PMO	Unk	10/24/11
Eastwood-7/SCE	200	h	Calif.	PMO, MO	Unk	09/12/11
Elk Hills/EHP	552	g	Calif.	PMO	Unk	10/26/11
Haas-1,2/PG&E*	144	h	Calif.	PMO	Unk	10/17/11
Helms-2/PG&E	407	h	Calif.	MO	Unk	09/22/11
La Rosita/InterGen	322	g	Mex.	PMO	Unk	10/27/11
Mexicali/Sempra	180	g	Mex.	PMO	Unk	10/01/11
Moss Landing-1/Dynegy	510	g	Calif.	MO	Unk	10/25/11
Moss Landing-7/Dynegy	755	g	Calif.	PMO	Unk	10/24/11
Mountainview-4/Edison	525	g	Calif.	PMO	Unk	10/23/11
Ormond Beach-1/GenOn	741	g	Calif.	MO	Unk	08/01/11
Palo Verde-1/APS	1311	n	Ariz.	PMO	Unk	10/07/11
Pittsburg-5/GenOn	312	g	Calif.	MO	Unk	10/27/11
Shiloh-3/PG&E	102	w	Calif.	PMO	Unk	10/25/11
Starwood/Midway	120	g	Calif.	PMO	Unk	10/25/11
Sunrise-2/Edison	590	g	Calif.	PMO	Unk	10/25/11

\$1.25 to about \$35.35/MWh while Q1 jumped up \$1.05 to about \$36.10/MWh. NP15 November rose \$1.60 to about \$35.75/MWh. In the Southwest, Palo Verde on-peak November was up \$1.50 to about \$33/MWh. Palo Verde on-peak December gained \$1 to about \$33.25/MWh and Q1 rose \$1.10 to about \$33.50/MWh.

WEST POWER MARKETS

Dailies finish mixed as terms advance

Western day-ahead prices for Wednesday delivery were mixed Tuesday, while spot gas continued to climb. Terms rose as the NYMEX January natural gas futures contract settled at \$3.633/MMBtu, 10.8 cents above Monday's \$3.525/MMBtu close, on forecasts of cooler weather.

In the Pacific Northwest, Mid-C on-peak next-day prices took on 65 cents to around \$30.50/MWh on IntercontinentalExchange. Mid-C off-peak prices inched up about 10 cents to around \$25.50/MWh. High temperatures in Portland, Oregon were forecast in the mid-40s with lows expected in the mid-30s. The Bonneville Power Administration's wind generation was 1 MW at 1:30 p.m. EST, but was expected to spike to 2,750 MW around 7 p.m. PST. Hydropower was around 8,910 MW. OPAL next-day gas was trading 19 cents higher day-on-day, around \$3.42/MMBtu. Northwest load was projected to peak around 55,120 MW Tuesday, down from Monday's peak of 56,215 MW.

In the Desert Southwest, Palo Verde on-peak next-day prices traded around \$30.25/MWh on ICE, up about 10 cents. Off-peak prices were 75 cents higher around \$22.50/MWh. High temperatures in Phoenix, Arizona Wednesday were forecast in the mid-70s, with lows around 50. Palo Verde on-peak bal-month was bid at \$29.25 and offered at \$41/MWh on ICE. Southwest load was forecasted peaking around 14,490 MW Tuesday, up slightly from Monday's peak of 14,375 MW.

In California, SP15 next-day on-peak financial swaps were down about \$1, trading around \$32.50/MWh on ICE. SP15 off-peak eased 50 cents to \$23/MWh. NP15 on-peak slipped about 50 cents with bids at \$33.50 and offers at \$34.75/MWh; off-peak was down \$1 on ICE with bids at \$23.75 and offers at \$24.25/MWh. Pacific Gas & Electric city-gates spot gas traded 6 cents higher, around \$3.89/MMBtu on ICE. High temperatures in Sacramento were forecast near 60 Wednesday with lows around 40. Burbank had highs forecast in the mid-70s, with lows expected in the mid-40s. The California Independent System Operator's wind generation was at 20 MW at 1:30 p.m. EST. The ISO projected its load to peak Tuesday at 30,795 MW, falling Wednesday to 30,350 MW.

In the Northwest term markets, Mid-C on-peak December rose 50 cents with bids at \$34.05 and offers at \$34.40/MWh on ICE around 2:30 p.m. EST. January rose 75 cents to about \$31.25/MWh, and the first quarter climbed 85 cents to about \$29.35/MWh. In California, SP15 on-peak December financial terms rose 50 cents with bids at \$33.50 and offers at \$33.70/MWh. January swaps surged \$1 to about \$35/MWh, and Q1

Day-ahead markets for delivery Nov 30(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	31.91	0.02	31.50-32.50	14	400	35.40
Mid-C	30.37	0.50	29.75-31.25	166	4,650	33.47
Palo Verde	30.39	0.26	29.75-30.75	24	700	32.94
Mead	31.51	-0.03	31.25-32.00	10	325	33.05
Mona	30.50	-0.50	30.50-30.50	N.A.	N.A.	32.89
Four Corners	30.25	-0.25	30.25-30.25	N.A.	N.A.	32.83
NP15	34.25	-0.50	34.25-34.25	N.A.	N.A.	36.30
SP15	32.50	-1.00	32.50-32.50	N.A.	N.A.	34.49
Off-Peak						
COB	27.25	0.97	27.25-27.25	N.A.	N.A.	28.81
Mid-C	25.53	0.15	25.00-26.00	93	2,425	27.87
Palo Verde	22.33	0.60	21.00-22.50	5	250	24.15
Mead	22.75	0.00	22.75-22.75	N.A.	N.A.	24.73
Mona	22.50	-0.25	22.50-22.50	N.A.	N.A.	24.73
Four Corners	22.00	-0.25	22.00-22.00	N.A.	N.A.	24.26
NP15	24.00	-1.00	24.00-24.00	N.A.	N.A.	27.04
SP15	23.00	-0.50	23.00-23.00	N.A.	N.A.	25.38

Near-term markets (\$/MWh)

Contract	Transacted	Deal
No term markets reported		

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Coolwater-4/GenOn	246	g	Calif.	PMO	Unk	11/27/11
Eastwood-7/SCE	200	h	Calif.	"PMO, MO"	Unk	09/12/11
Elk Hills/Occidental	551	g	Calif.	MO	Unk	11/27/11
Harbor Cogen/Harbor	109	g	Calif.	PMO	Unk	11/21/11
Helms-1/PG&E	407	h	Calif.	MO	Unk	11/19/11
Helms-2/PG&E	407	h	Calif.	PMO	Unk	09/22/11
Helms-3/PG&E	404	h	Calif.	"PMO, MO"	Unk	11/12/11
Intermountain-2/IPA	900	g	Utah	MO	Unk	11/27/11
Kerckhoff-1/PG&E	154	h	Calif.	PMO	Unk	11/06/11
La Paloma-1/LPGC	260	g	Calif.	"PMO, MO"	Unk	11/28/11
Luz Solar-3-7/Various	175	s	Calif.	PMO	Unk	11/28/11
Luz Solar-8,9/Various"	184	s	Calif.	PMO	Unk	11/28/11
Mountainview-3/Edison	525	g	Calif.	PMO	Unk	11/28/11
Shiloh-3/PG&E	102	w	Calif.	PMO	Unk	10/25/11
Sunrise-2/Edison	590	g	Calif.	PMO	Unk	11/27/11
Vincent QFs/Various	316	g	Calif.	PMO	Unk	11/28/11

rose 85 cents to about \$34.50/MWh. NP15 December rose 50 cents to about \$34.75/MWh. In the Southwest, Palo Verde on-peak December jumped \$1.25 to about \$30.75/MWh, January rose \$1.10 to about \$32.25/MWh, and Q1 moved up \$1.10 to about \$32.25/MWh.

WEST POWER MARKETS

Dailies decline as terms finish mixed

Western on-peak day-ahead prices for Friday and Saturday delivery ahead of the New Year's holiday continued to slide Wednesday with slightly higher temperatures in the forecast. Terms finished mixed as the NYMEX January natural gas futures contract expired 2.8 cents lower, at \$3.084/MMBtu. The NYMEX February contract, which takes prompt-month position Thursday, settled at \$3.121, down 2.9 cents.

In the Pacific Northwest, Mid-Columbia on-peak prices lost about 35 cents to trade around \$27/MWh on IntercontinentalExchange. Off-peak gained roughly 50 cents to \$24.50/MWh. The Bonneville Power Administration's wind generation was 2,000 MW at 1:45 p.m. EST, and hydro-power was around 8,730 MW. High temperatures in Portland, Oregon, were forecast in the mid-40s through Saturday with lows between 35 and 40, and rain. OPAL next-day gas was trading 2 cents lower, around \$3.09/MMBtu.

In the Desert Southwest, Palo Verde on-peak next-day prices shed nearly \$3, trading around \$28.25/MWh on ICE. Off-peak prices were down about 25 cents to \$23.50/MWh. High temperatures in Phoenix were forecast in the low 70s through Saturday with lows in the upper 40s.

California high temperatures through Saturday were forecast in the mid-70s in Burbank and the high 50s in Sacramento, with lows in the 40s throughout the state. SP15 next-day on-peak financial swaps were down \$2, trading around \$28.50/MWh on ICE. SP15 off-peak gained 50 cents to trade around \$24/MWh. NP15 on-peak was down \$2 with bids at \$28.80 and offers at \$29.50/MWh. NP15 off-peak had bids at \$24.50 and offers at \$25.50, roughly unchanged. Pacific Gas & Electric city-gates spot gas traded 2 cents lower, around \$3.445/MMBtu on ICE. The Cal-ISO's wind generation was around 115 MW at 1:45 p.m. EST. The ISO projected its load to peak Friday at 28,525 MW, falling Saturday to 26,205 MW.

In the Northwest term markets, Mid-Columbia on-peak January rose 25 cents with bids at \$29.10 and offers at \$29.45/MWh on ICE around 2:30 p.m. EST. February rose 25 cents to about \$28.25/MWh, and the first quarter rose 25 cents to about \$28/MWh. In California, SP15 on-peak

Day-ahead markets for delivery Dec 30, 31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	28.18	-3.47	28.00-28.75	10	250	34.18
Mid-C	26.95	-0.39	26.25-27.75	162	4,225	32.12
Palo Verde	29.60	-1.46	26.75-30.00	19	750	32.04
Mead	30.00	-1.00	30.00-30.00	N.A.	N.A.	32.60
Mona	27.00	-0.50	27.00-27.00	N.A.	N.A.	32.23
Four Corners	28.25	-1.00	28.25-28.25	N.A.	N.A.	31.92
NP15	29.25	-1.75	29.25-29.25	N.A.	N.A.	33.82
SP15	28.50	-2.00	28.50-28.50	N.A.	N.A.	32.59
Off-Peak						
COB	24.50	-0.50	24.50-24.50	N.A.	N.A.	30.14
Mid-C	24.52	0.48	23.50-25.25	93	2,525	29.24
Palo Verde	23.55	-0.19	23.25-23.75	17	500	25.12
Mead	23.50	-0.25	23.50-23.50	N.A.	N.A.	26.03
Mona	22.50	-0.50	22.50-22.50	N.A.	N.A.	25.66
Four Corners	23.25	0.00	23.25-23.25	N.A.	N.A.	24.94
NP15	25.25	0.50	25.25-25.25	N.A.	N.A.	26.81
SP15	24.00	0.50	24.00-24.00	N.A.	N.A.	25.41

Near-term markets (\$/MWh)

Contract	Transacted	Deal

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Agua Caliente/NRG	100	s	Ariz.	PMO	Unk	12/12/11
Coolwater-4/GenOn	246	g	Calif.	PMO	Unk	11/27/11
Eastwood-7/SCE	200	h	Calif.	PMO/MO	Unk	09/12/11
Encina-1/Cabrillo	106	g	Calif.	MO	Unk	12/26/11
Helms-1/PG&E	407	h	Calif.	MO	Unk	11/19/11
Helms-2/PG&E	407	h	Calif.	PMO	Unk	09/22/11
Helms-3/PG&E	404	h	Calif.	PMO/MO	Unk	11/12/11
Huntington-3/AES	225	g	Calif.	MO	Unk	12/19/11
Huntington-4/AES	227	g	Calif.	MO	Unk	12/19/11
Kerckhoff-1/PG&E	154	h	Calif.	PMO	Unk	12/25/11
Pine Flat Hydro/PG&E	210	h	Calif.	PMO	Unk	12/07/11
Sunrise-2/Edison	590	g	Calif.	PMO	Unk	12/22/11

January financial terms were unchanged with bids at \$31.45 and offers at \$31.75/MWh. February fell 25 cents to about \$31.50/MWh, and Q1 edged down 15 cents to about \$31.50/MWh. NP15 January stayed at about \$31.25/MWh. In the Southwest, Palo Verde on-peak January fell 25 cents to about \$30.25/MWh, February fell 25 cents to about \$30.25/MWh, and Q1 slid 30 cents to about \$30.35/MWh.

Weekly Water Quality System Status

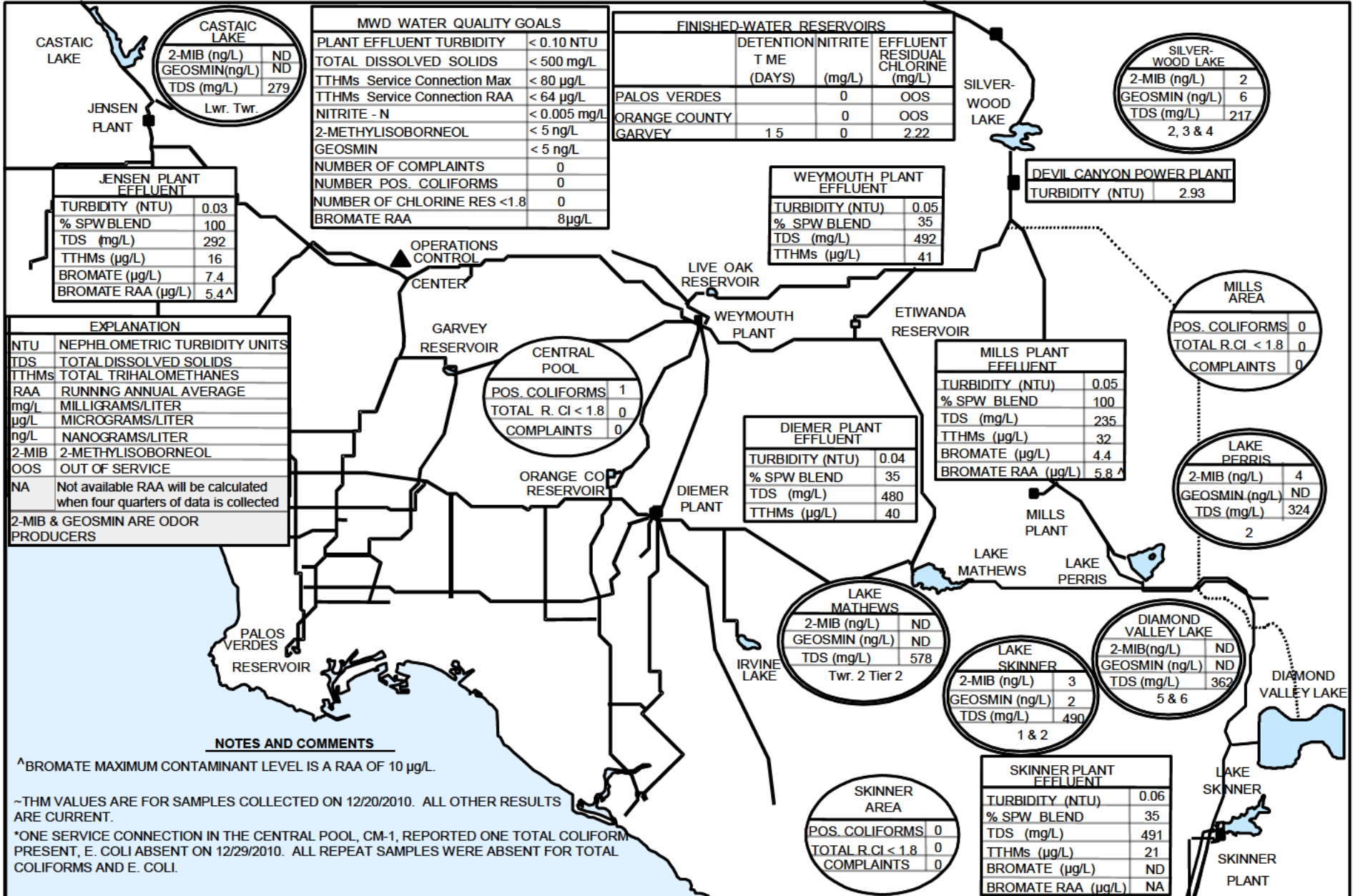
Wednesday, January 05, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

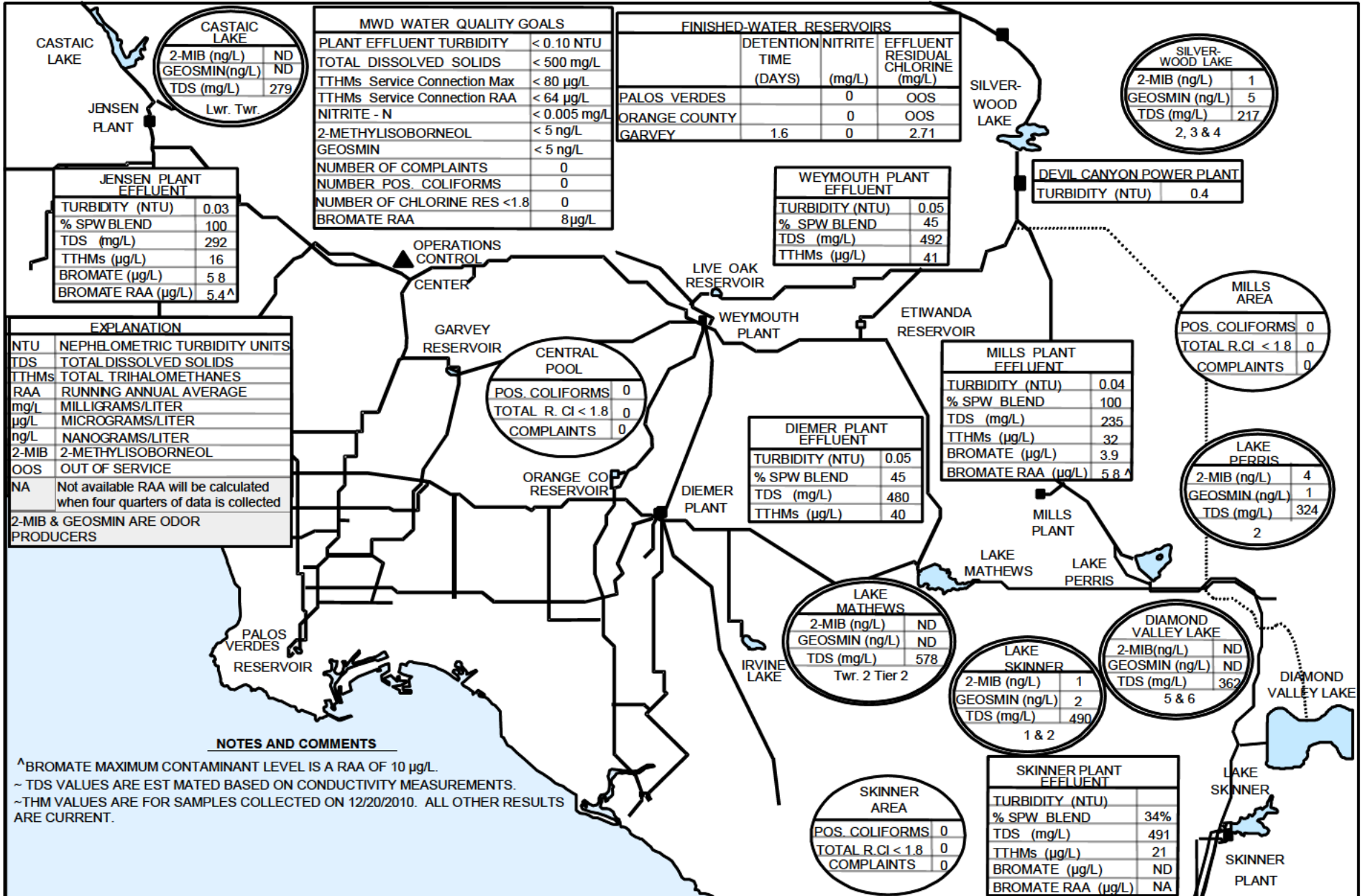
Wednesday, January 12, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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Weekly Water Quality System Status

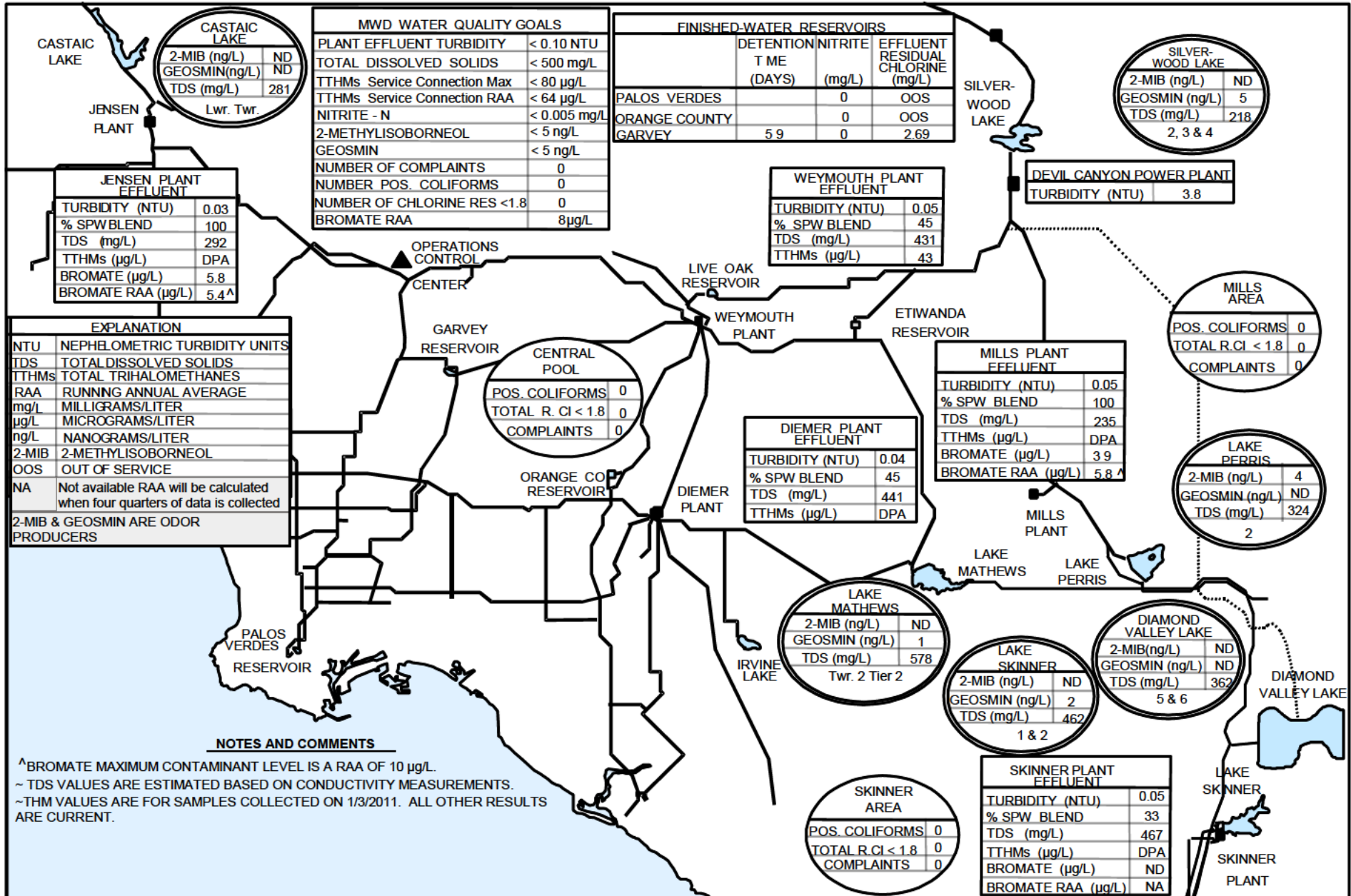
Wednesday, January 19, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



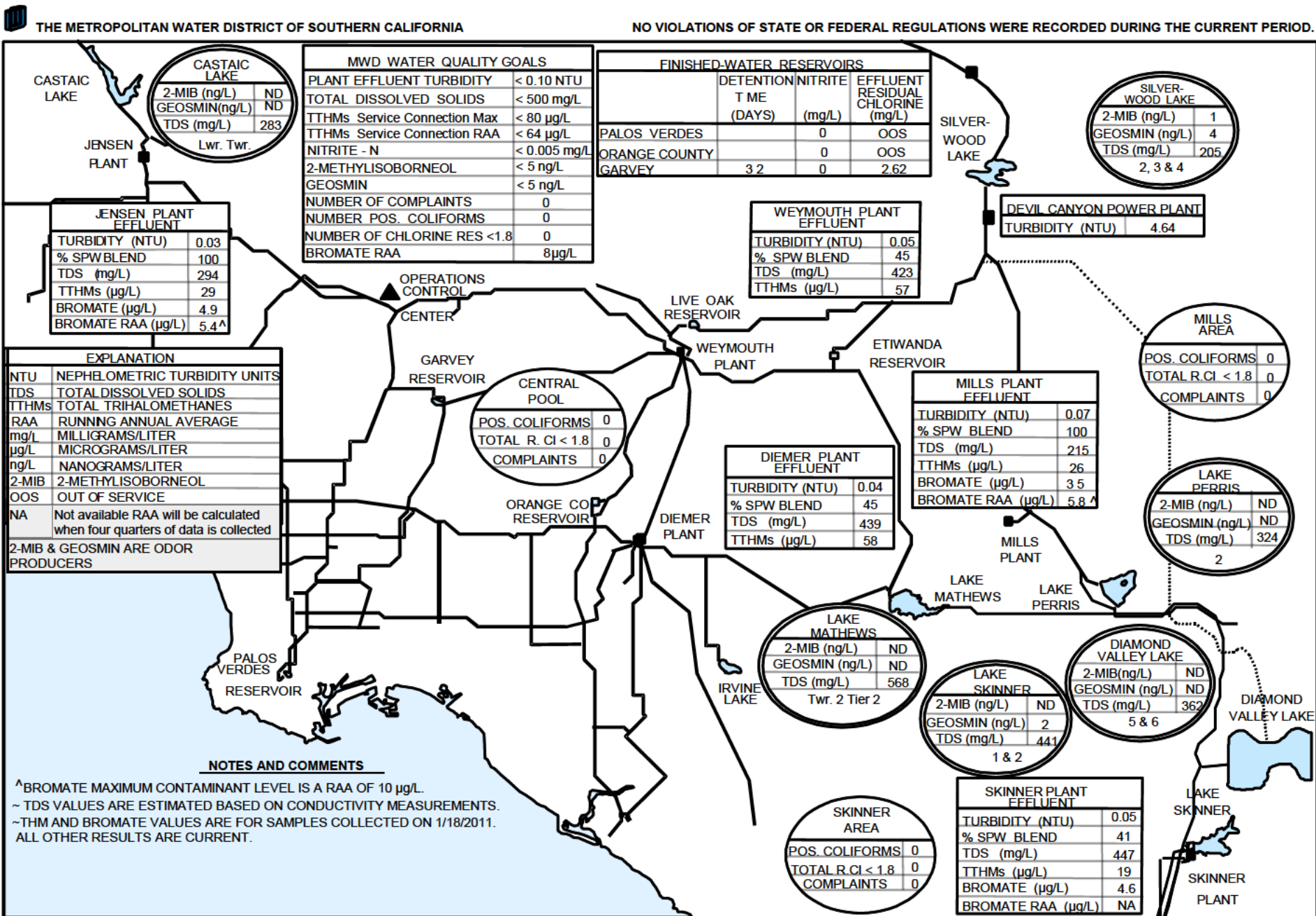
MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Tuesday, January 25, 2011

DTX-1122



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

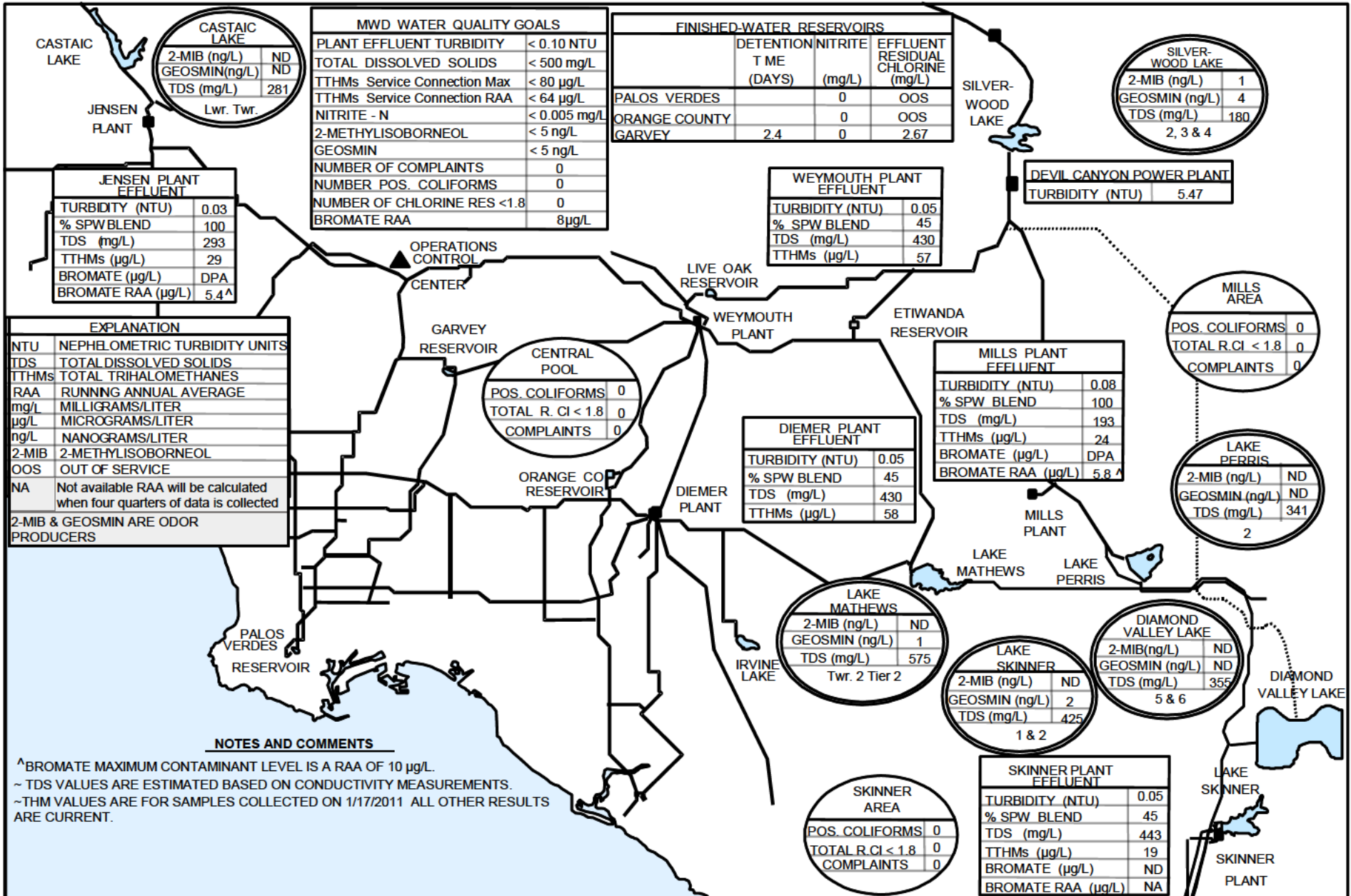
Wednesday, February 02, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

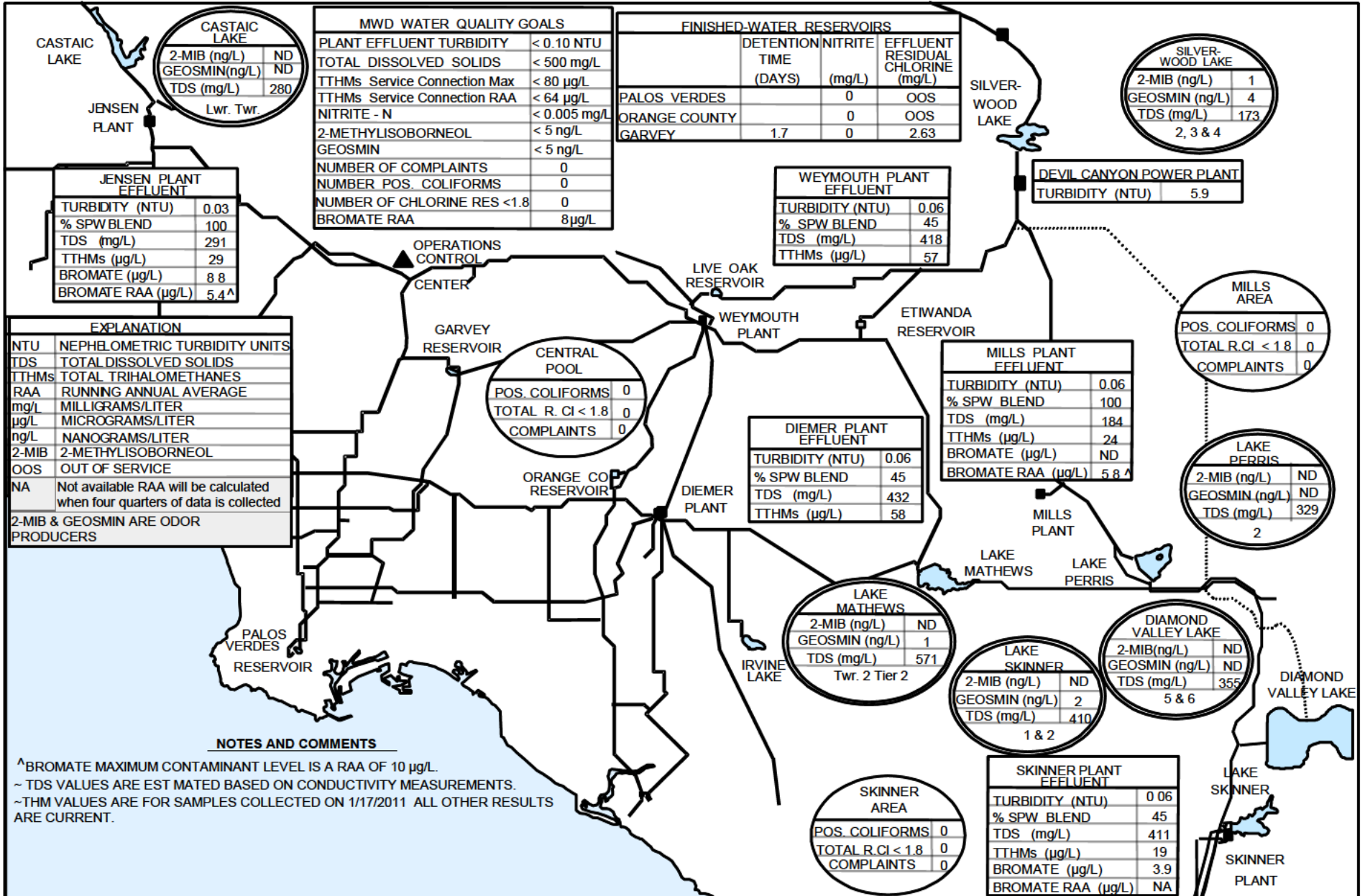
Tuesday, February 08, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

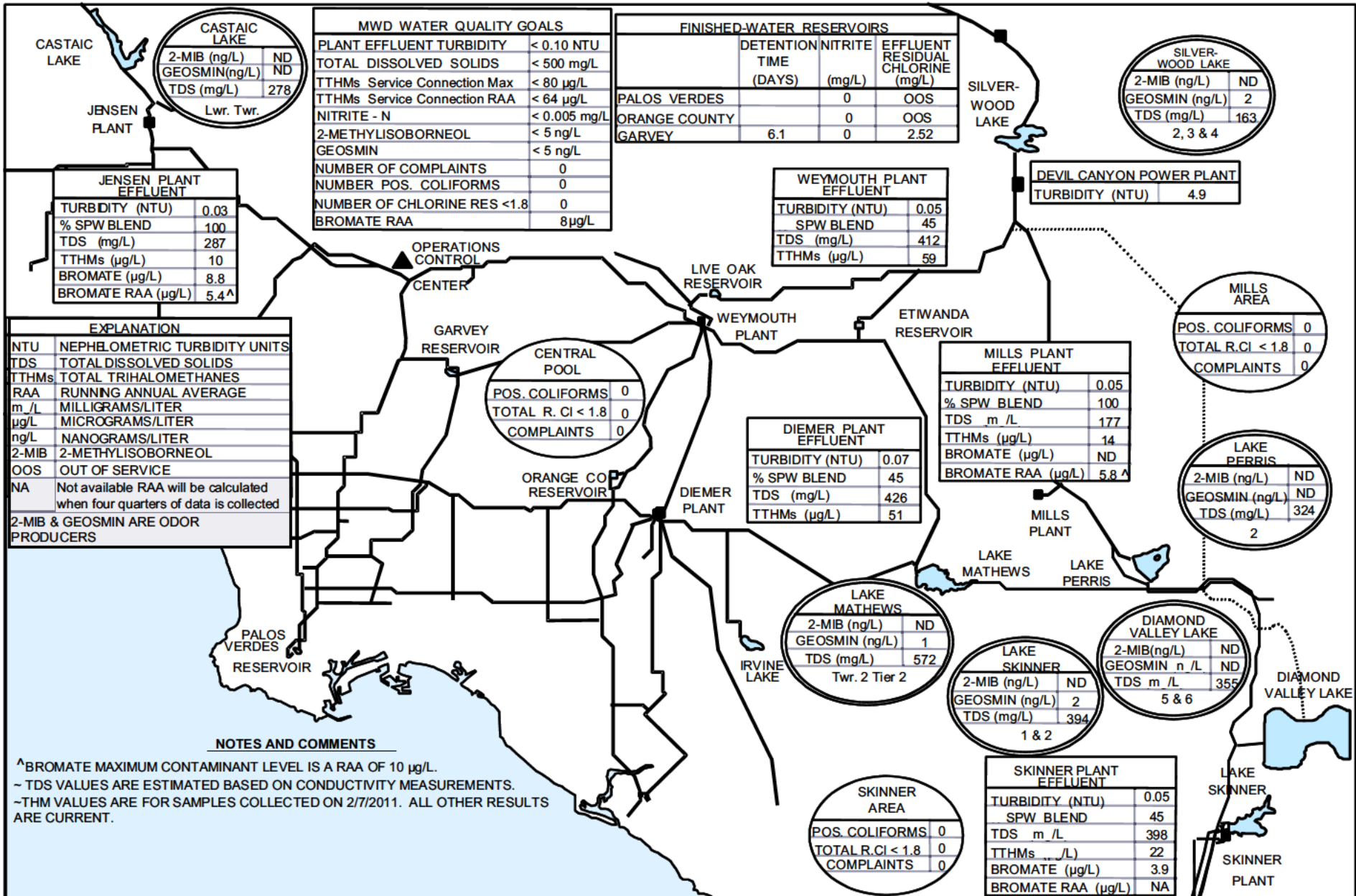
Wednesday, February 16, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

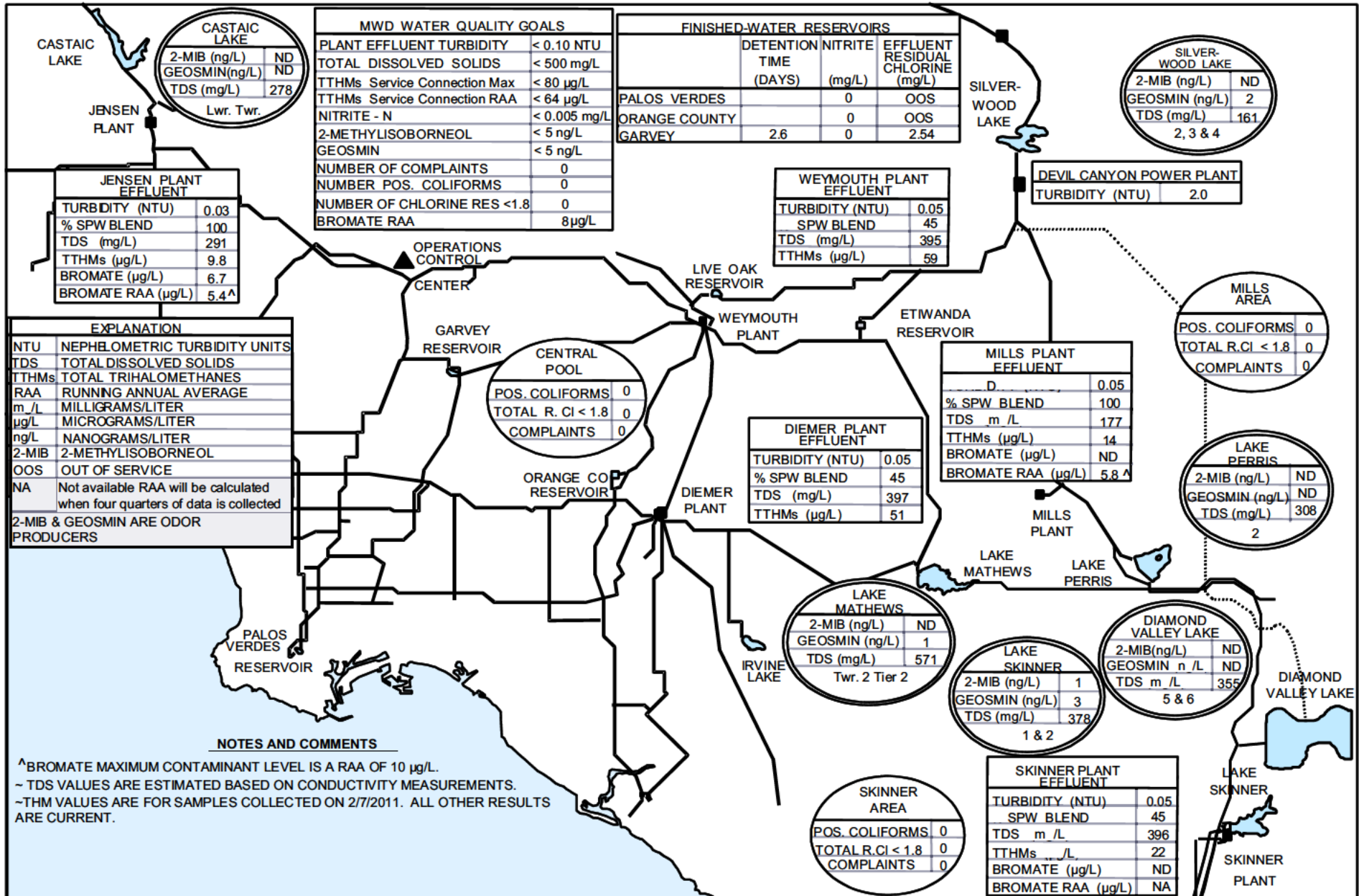
Wednesday, February 23, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

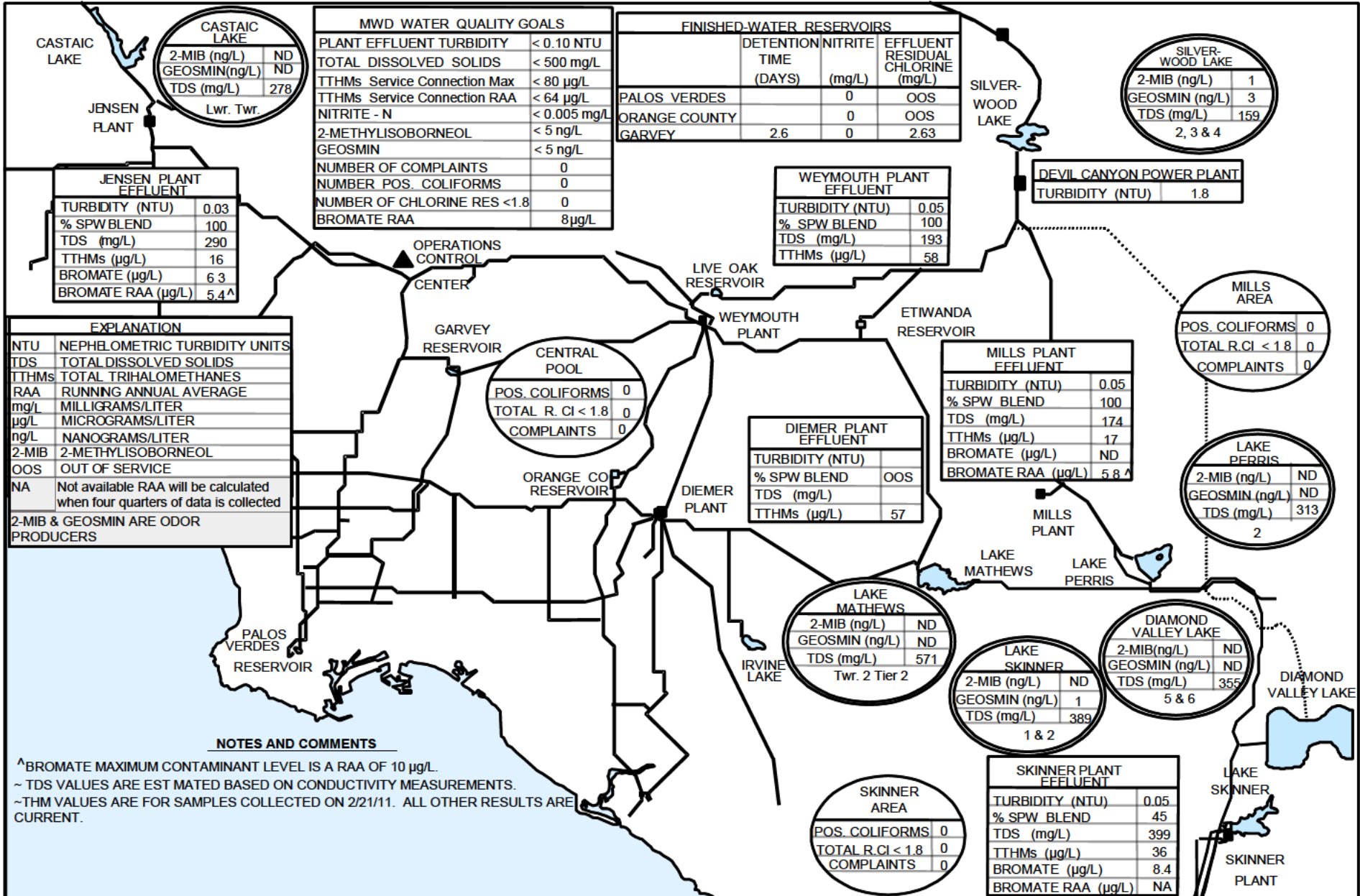
Wednesday, March 02, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

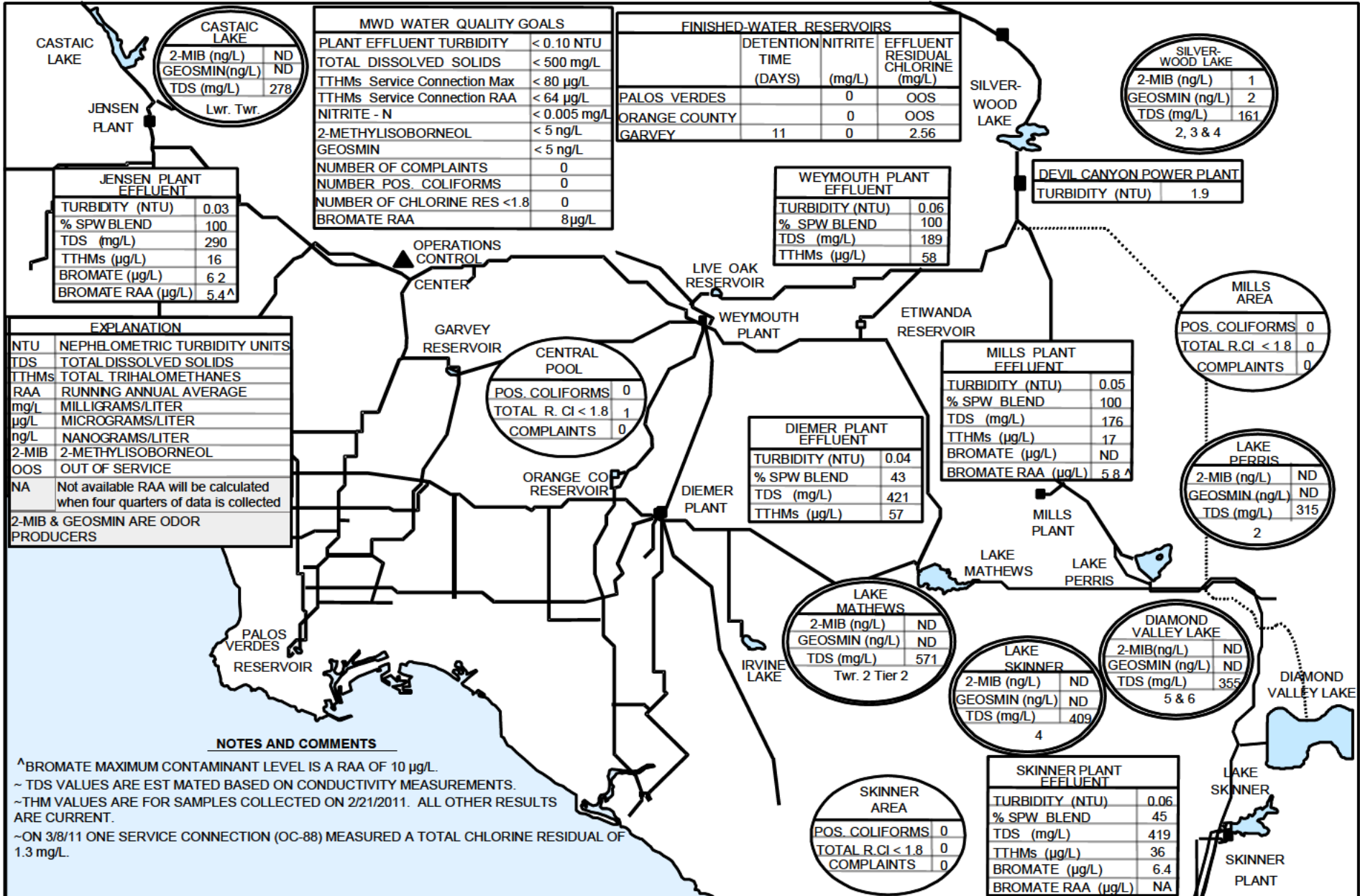
Wednesday, March 09, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

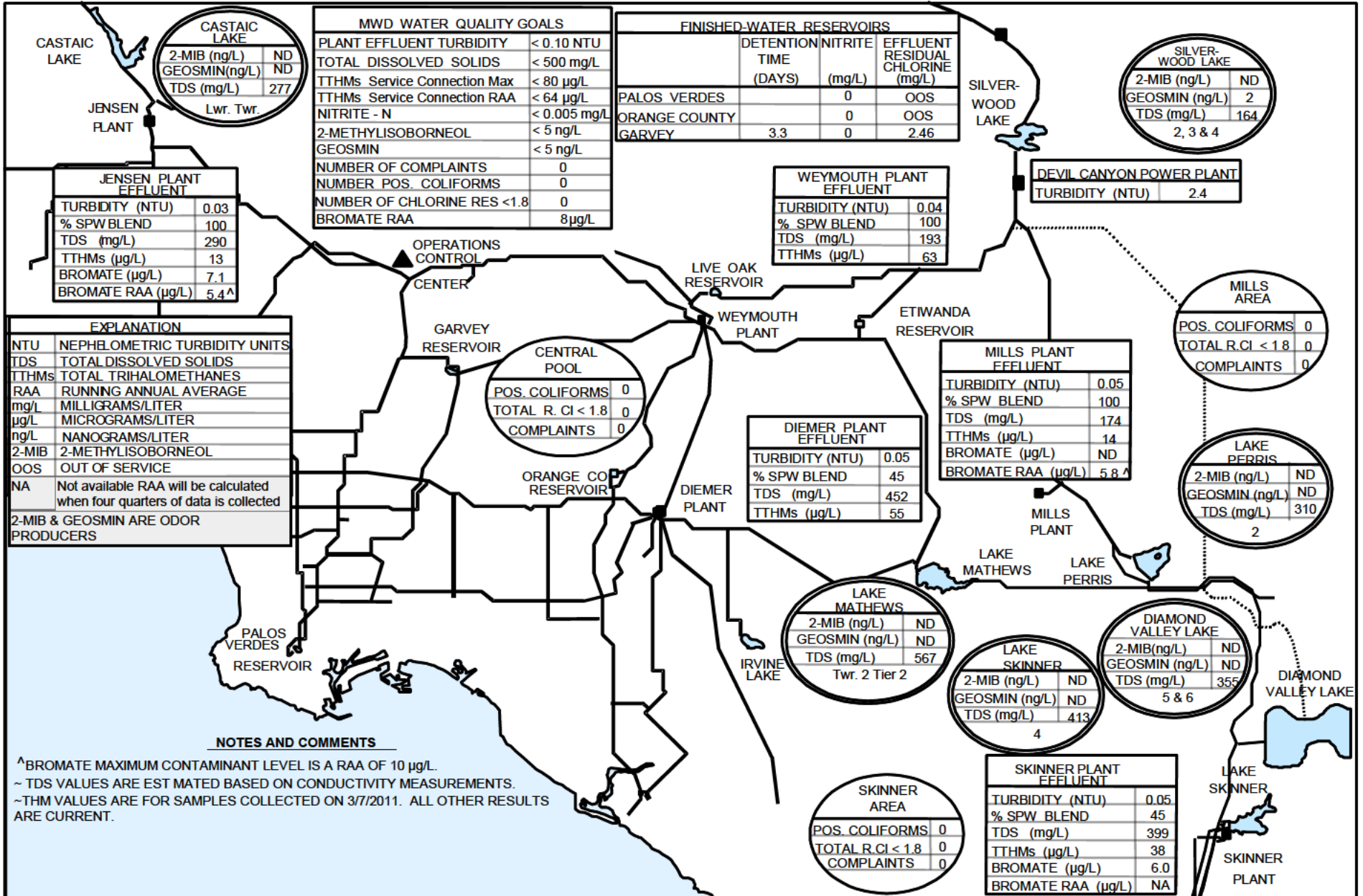
Wednesday, March 16, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

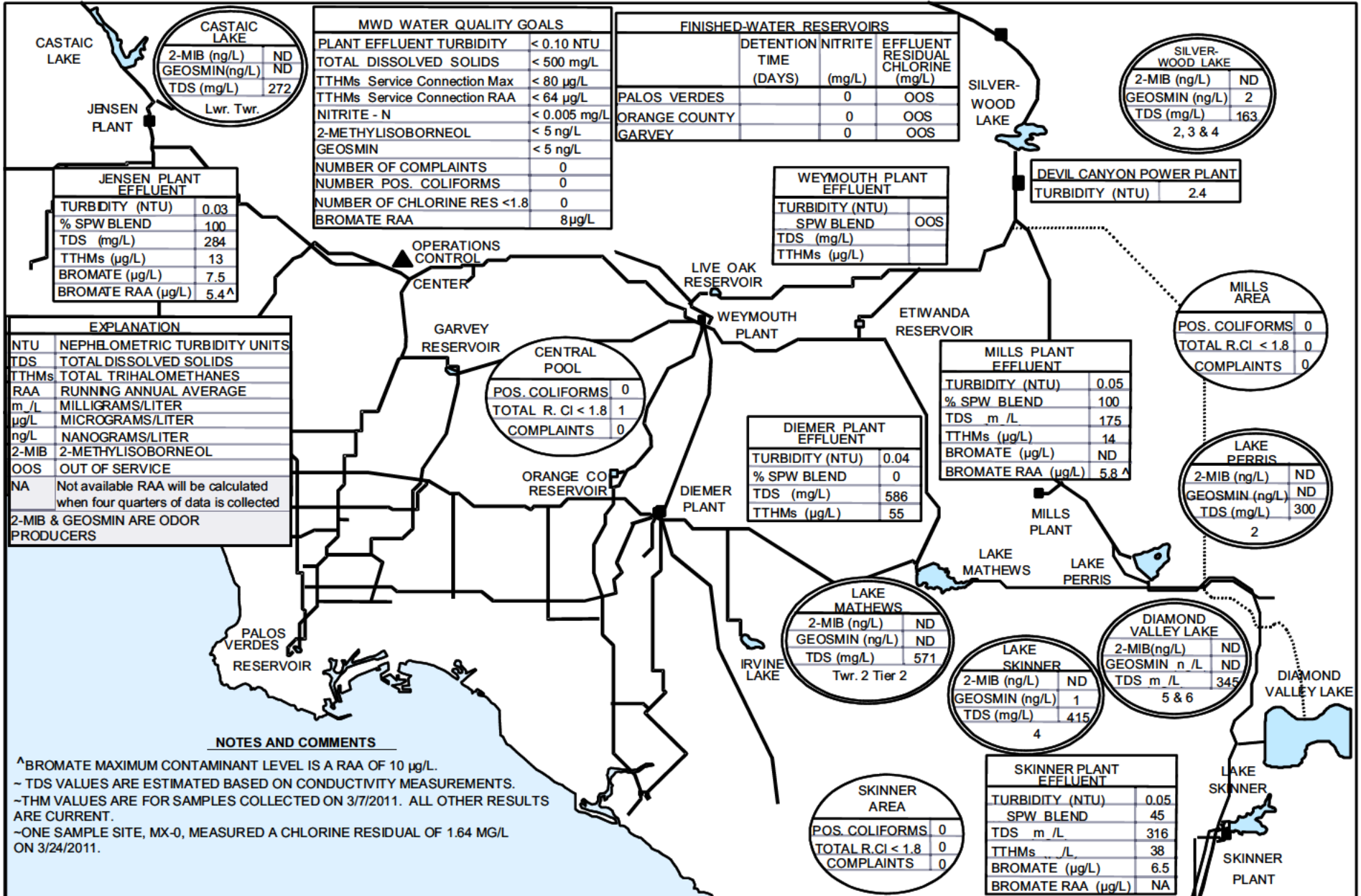
Wednesday, March 23, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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Weekly Water Quality System Status

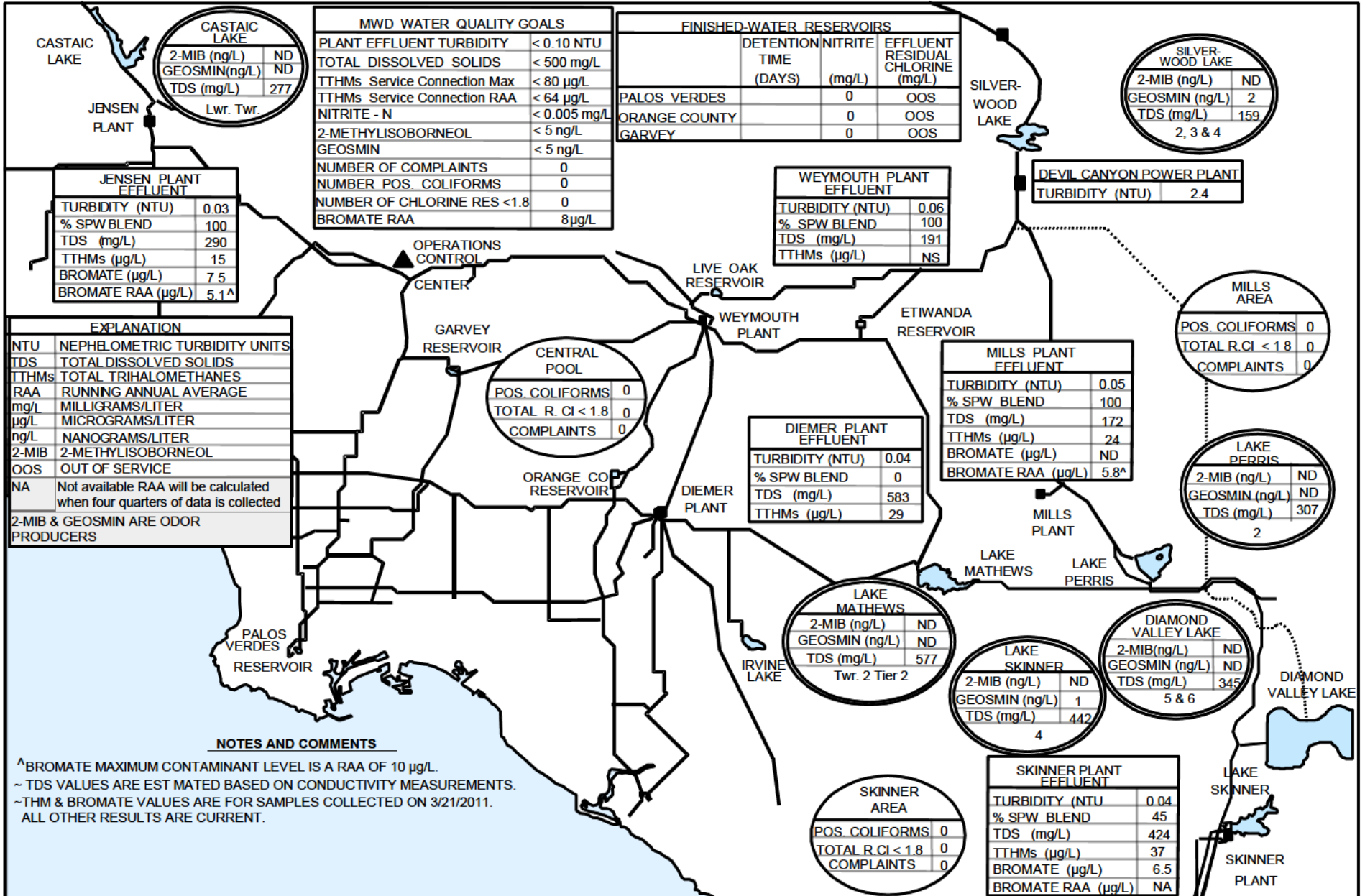
Tuesday, March 29, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

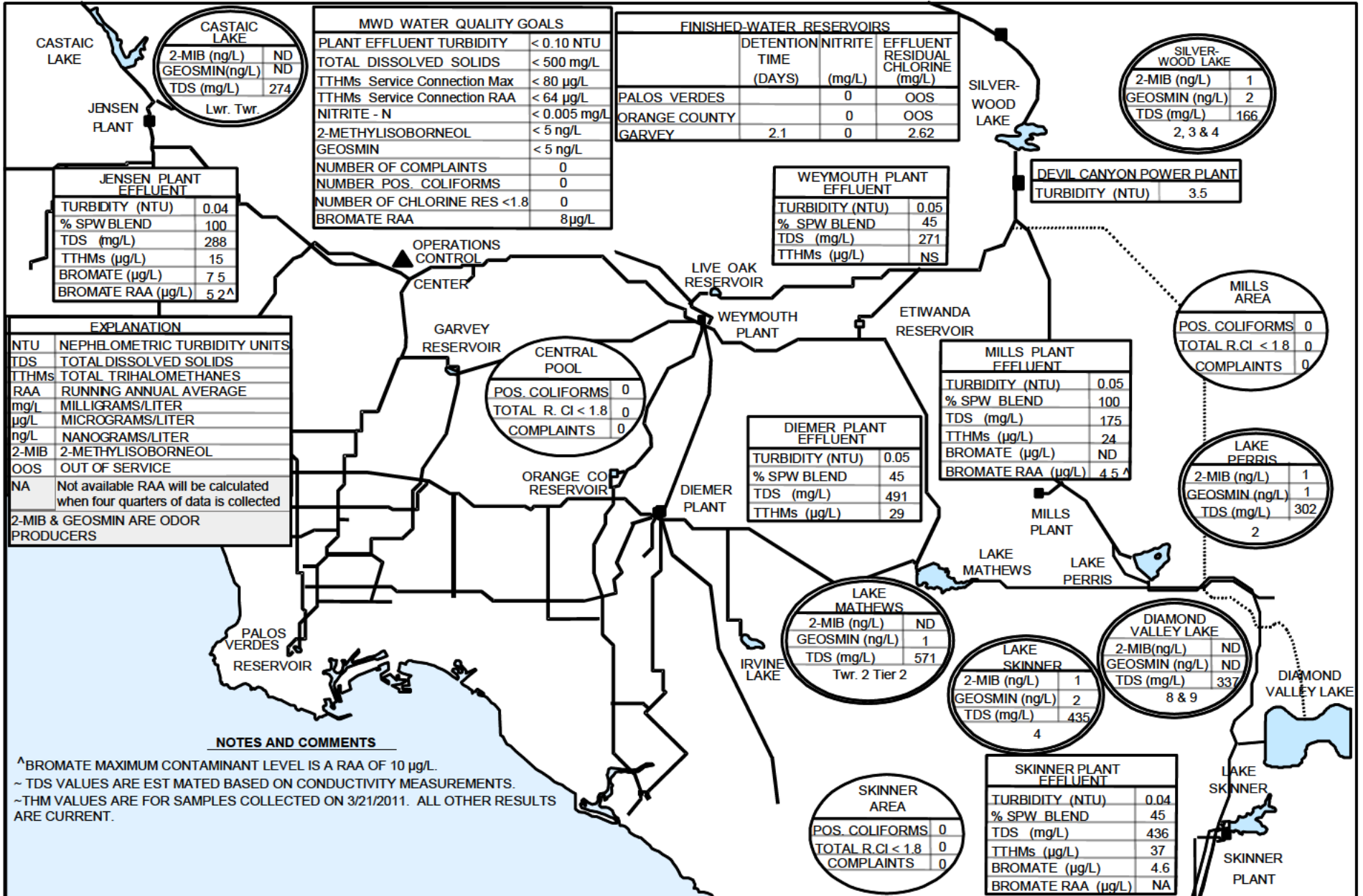
Wednesday, April 06, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

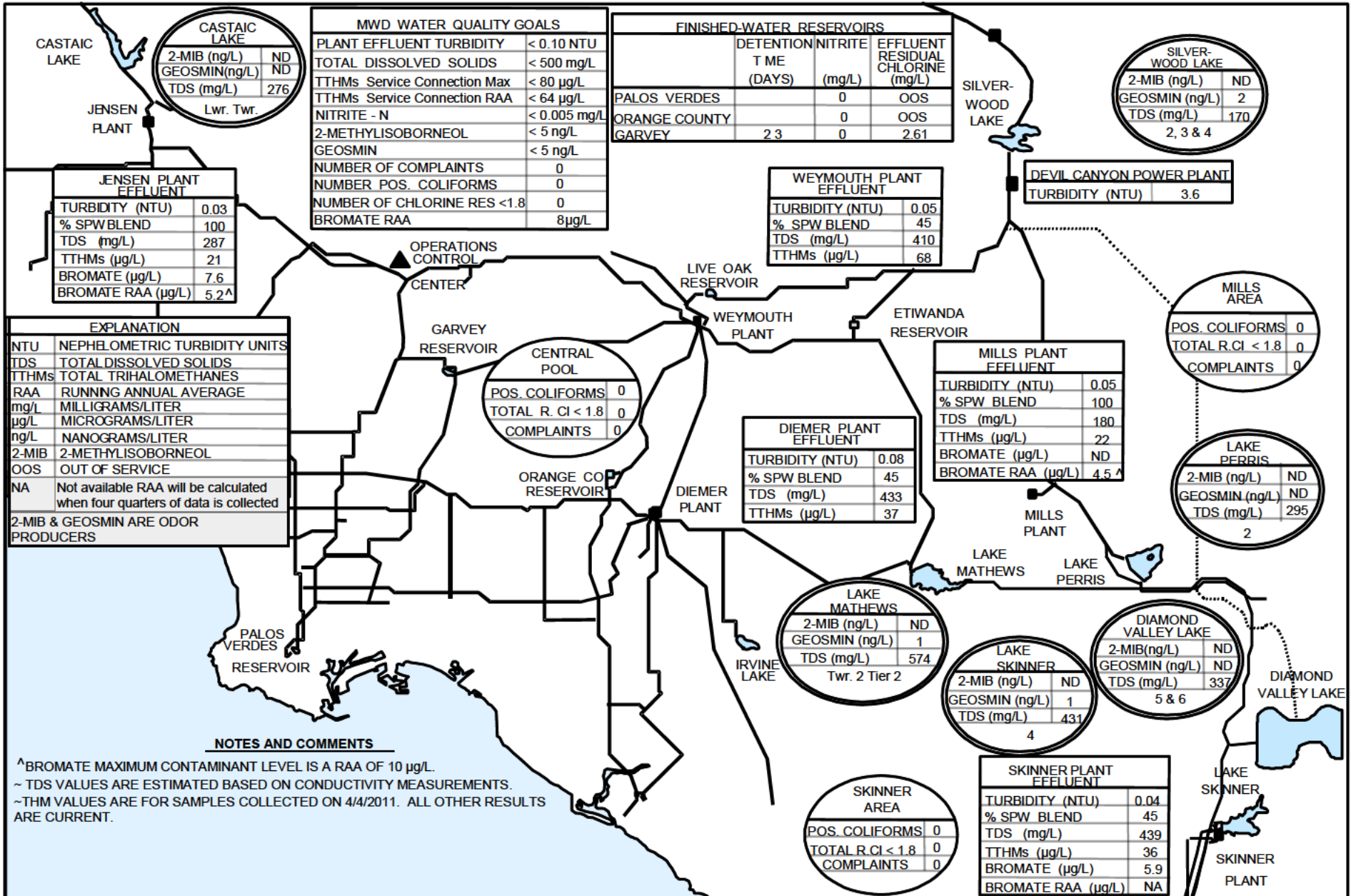
Wednesday, April 13, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

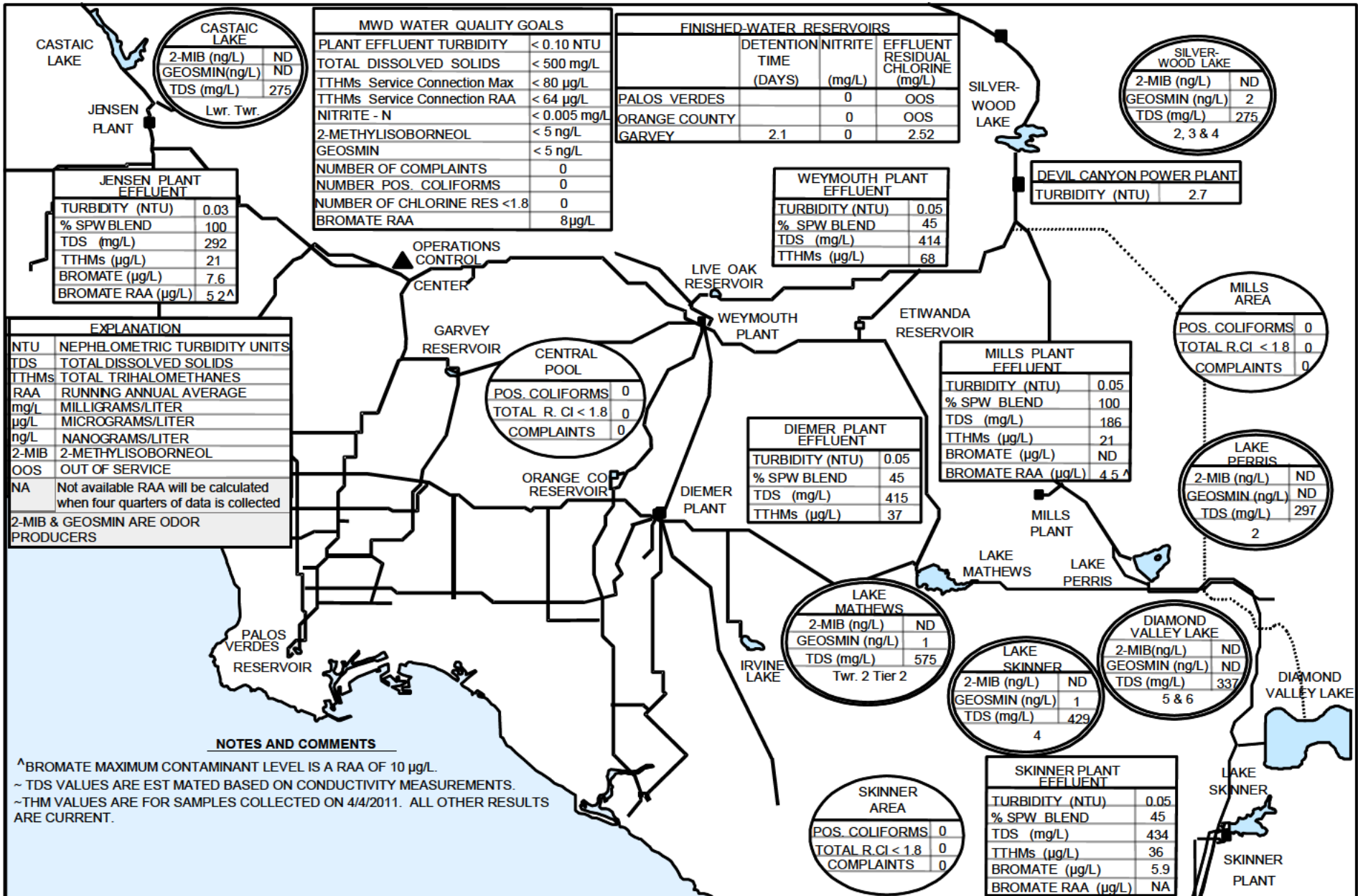
Wednesday, April 20, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

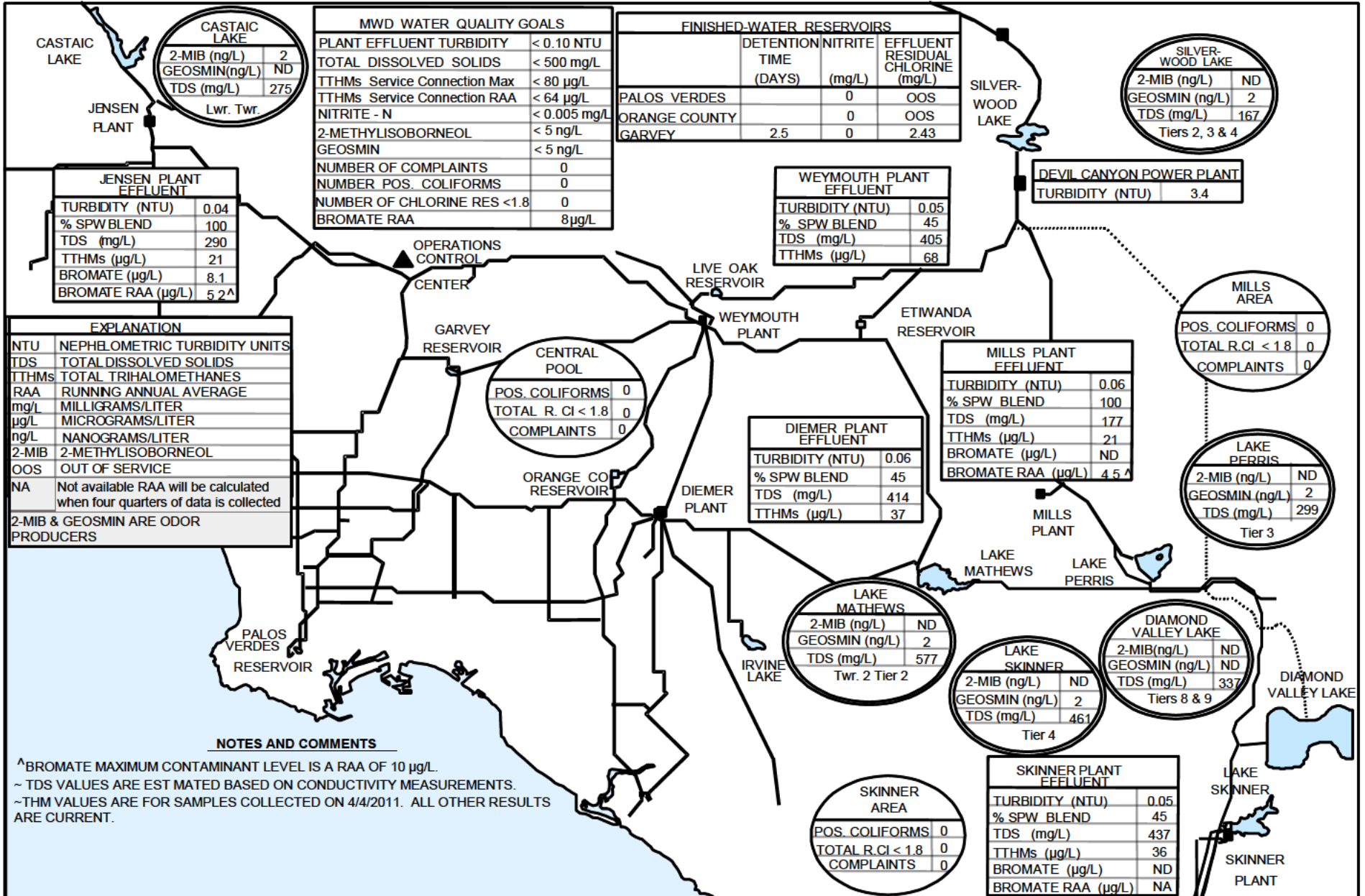
Wednesday, April 27, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

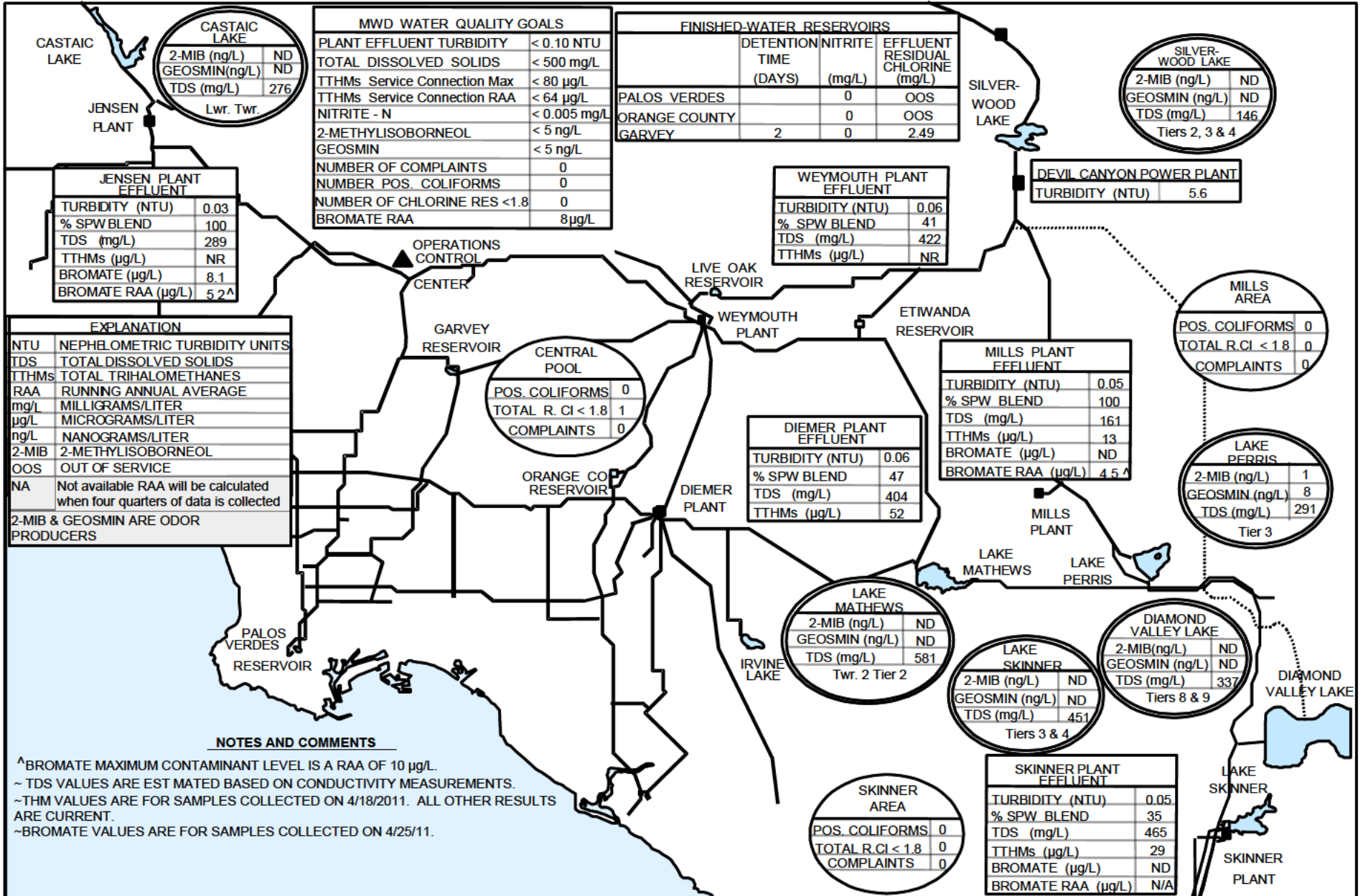
Wednesday, May 04, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

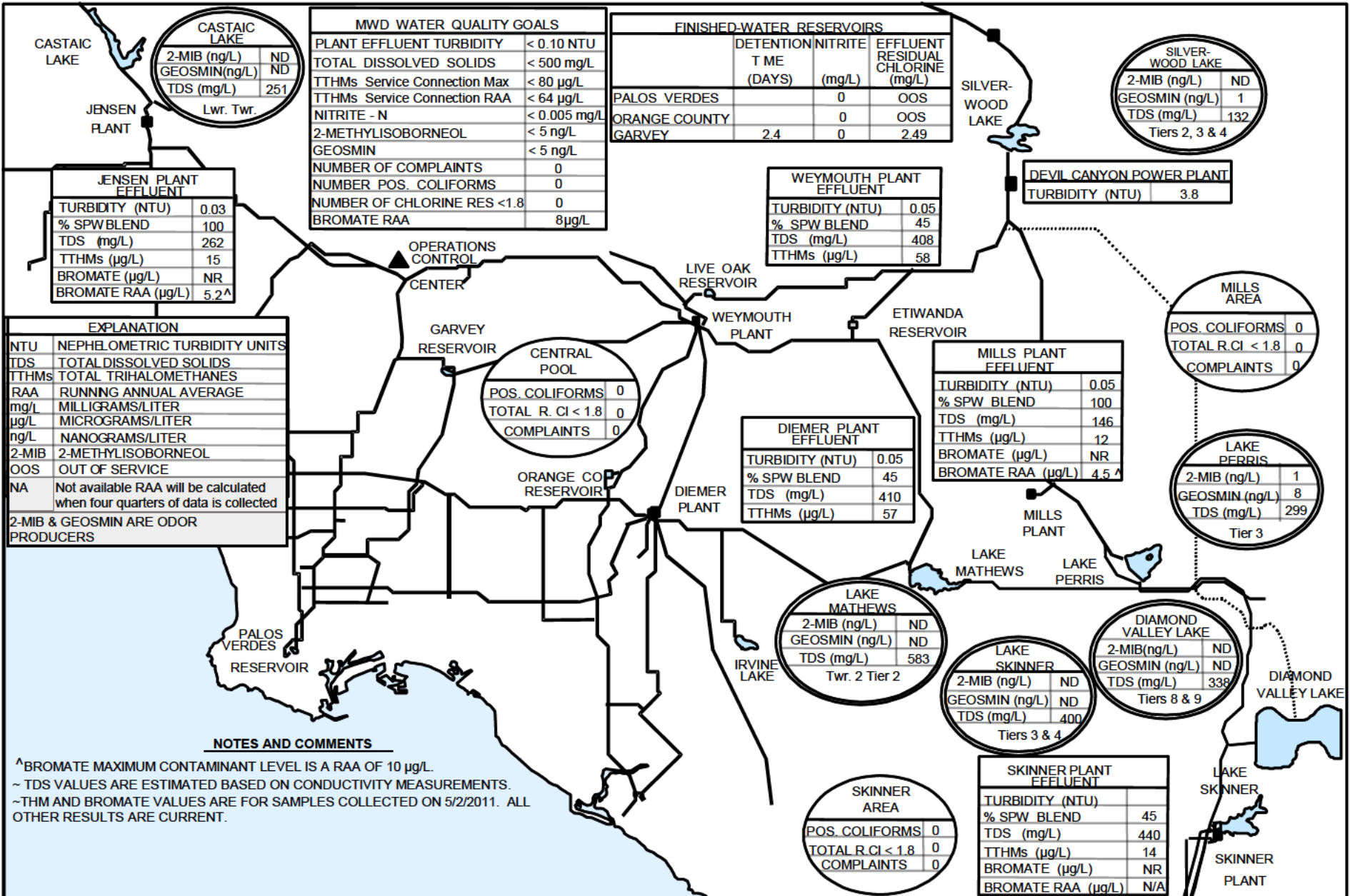
Wednesday, May 11, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

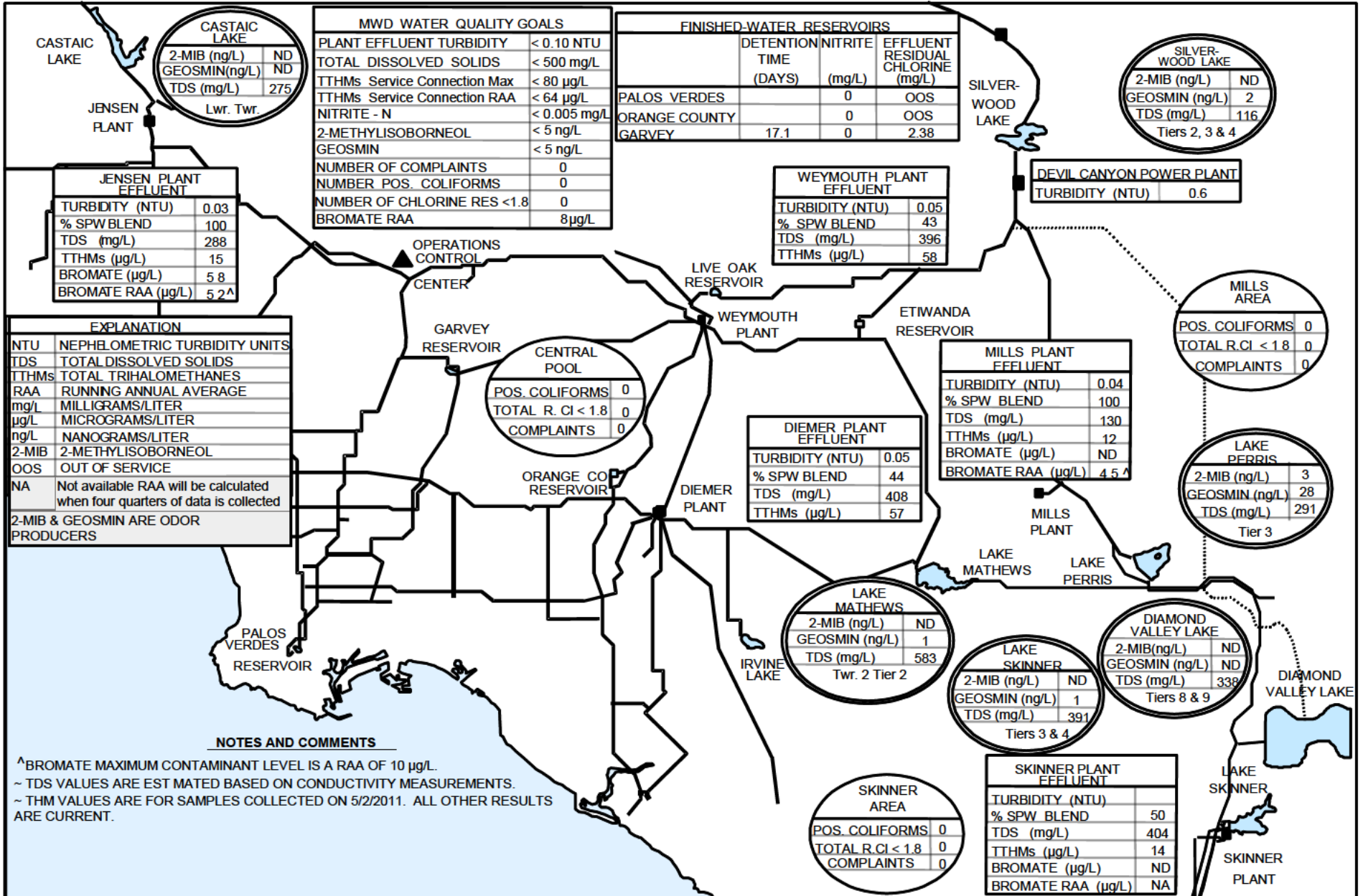
Wednesday, May 18, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



EXPLANATION	
NTU	NEPHELOMETRIC TURBIDITY UNITS
TDS	TOTAL DISSOLVED SOLIDS
TTHMs	TOTAL TRIHALOMETHANES
RAA	RUNNING ANNUAL AVERAGE
mg/L	MILLIGRAMS/LITER
µg/L	MICROGRAMS/LITER
ng/L	NANOGRAMS/LITER
2-MIB	2-METHYLISOBORNEOL
OOS	OUT OF SERVICE
NA	Not available RAA will be calculated when four quarters of data is collected
2-MIB & GEOSMIN ARE ODOR PRODUCERS	

NOTES AND COMMENTS

[^]BROMATE MAXIMUM CONTAMINANT LEVEL IS A RAA OF 10 µg/L.
 ~ TDS VALUES ARE EST MATED BASED ON CONDUCTIVITY MEASUREMENTS.
 ~ THM VALUES ARE FOR SAMPLES COLLECTED ON 5/2/2011. ALL OTHER RESULTS ARE CURRENT.

MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

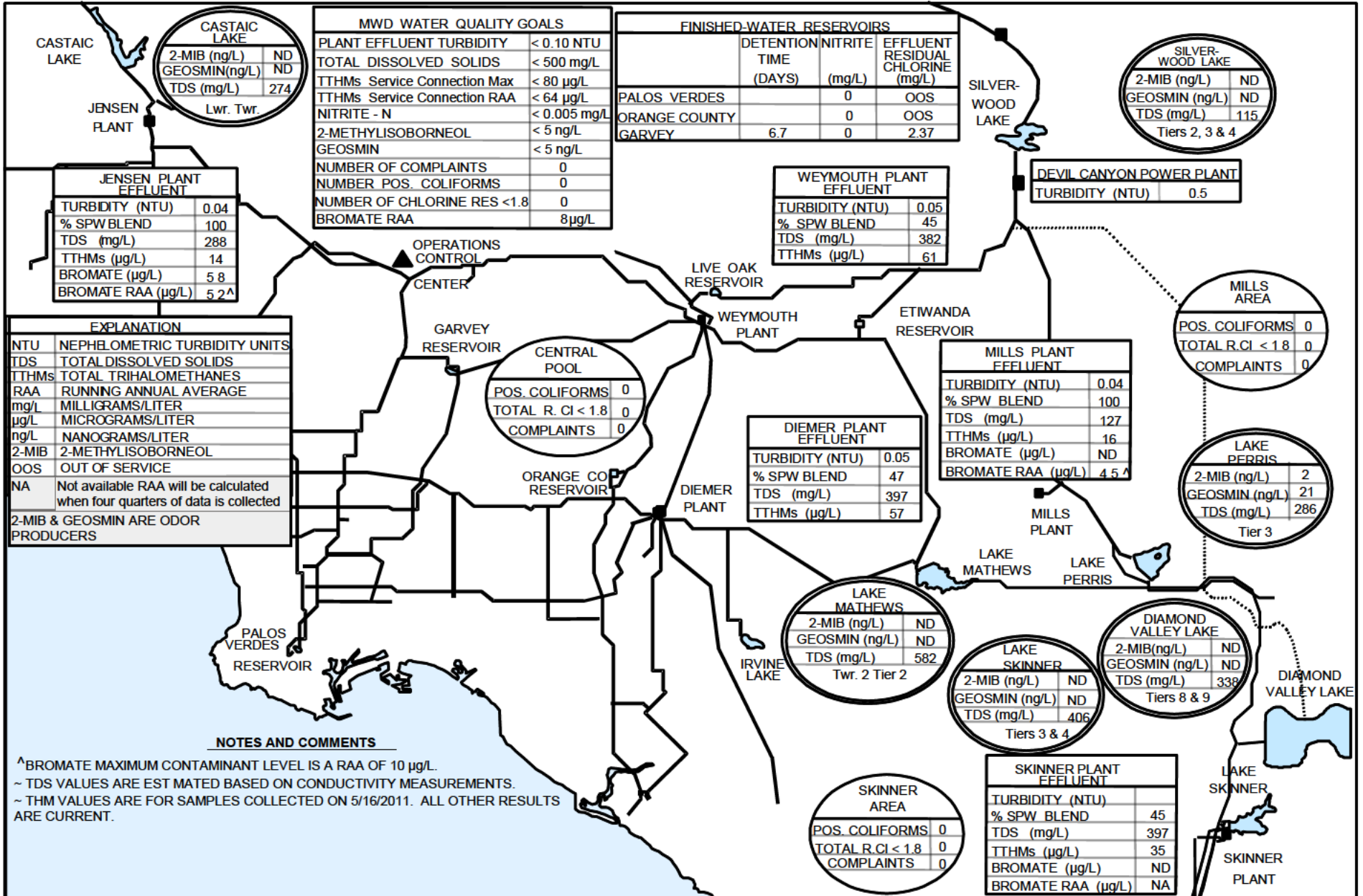
Wednesday, May 25, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

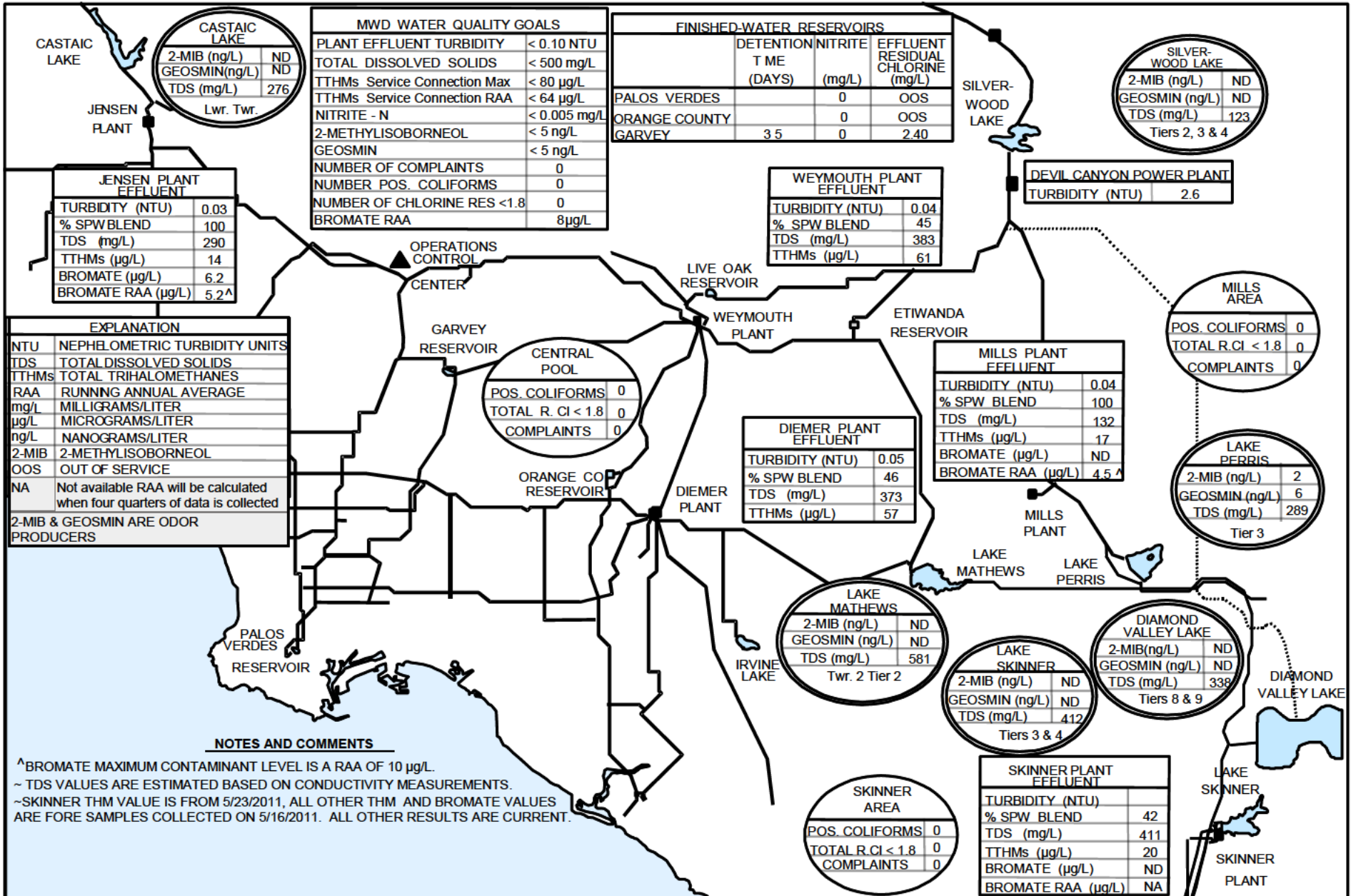
Wednesday, June 01, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

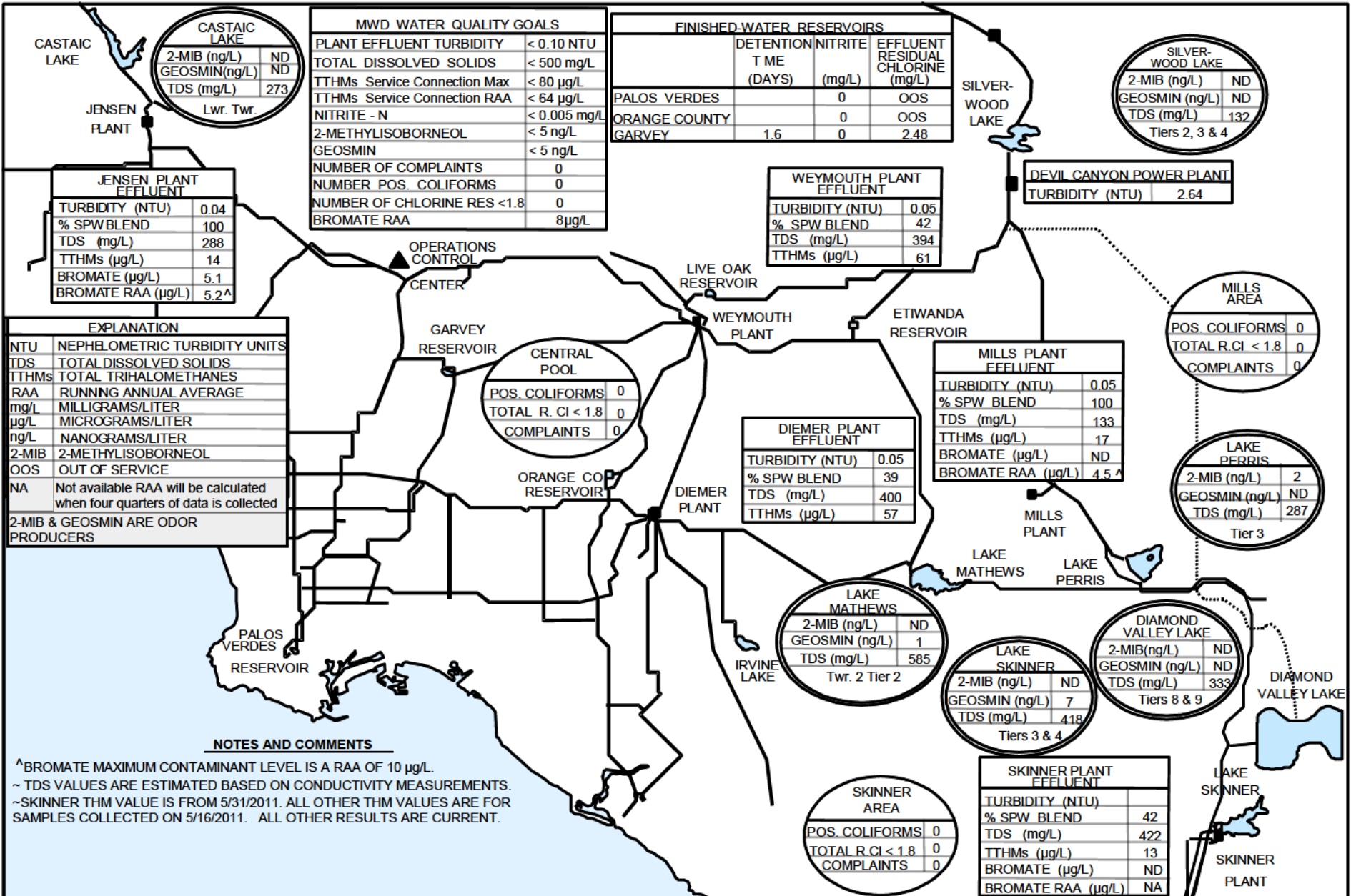
Wednesday, June 08, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

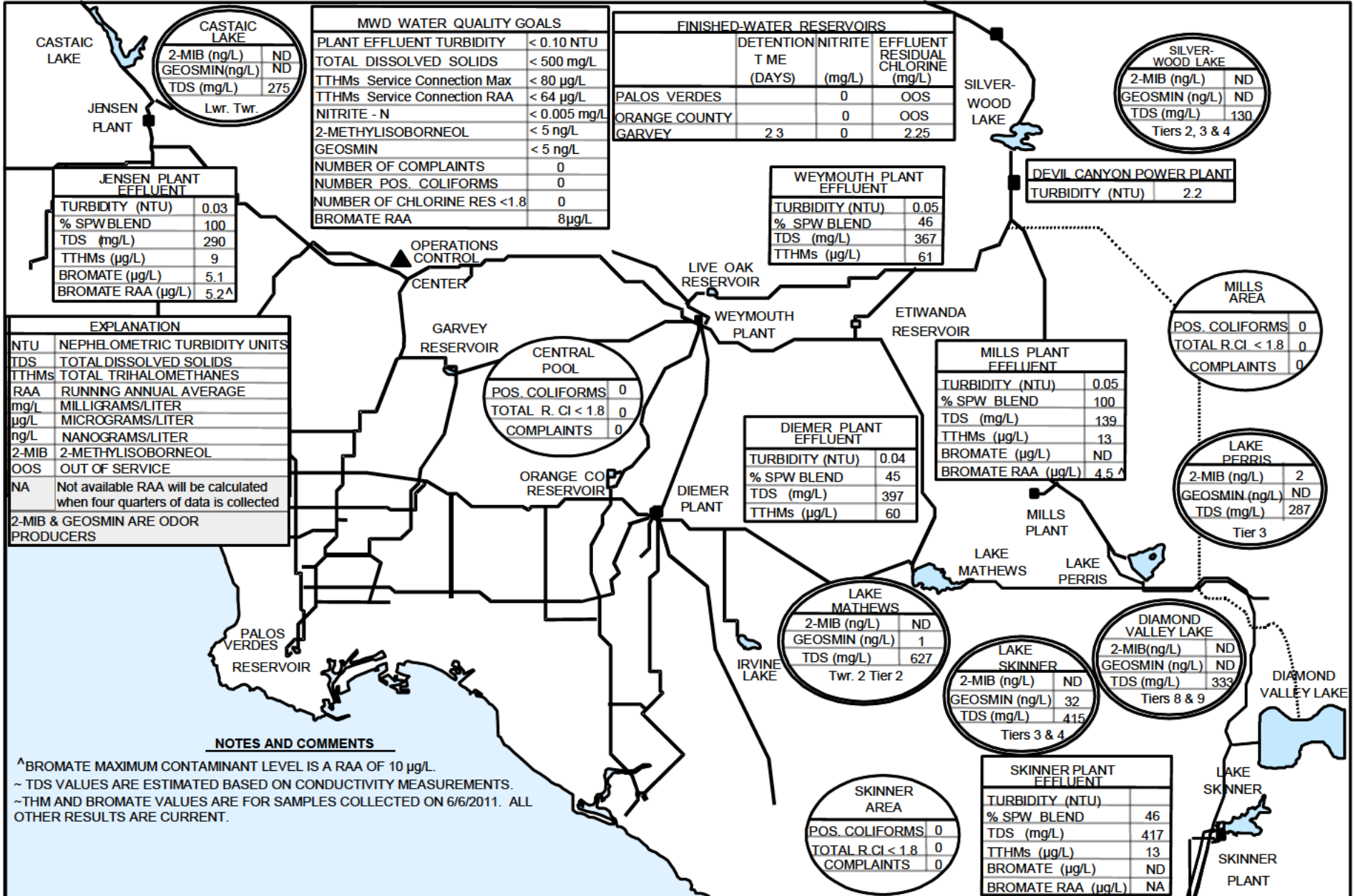
Tuesday, June 14, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

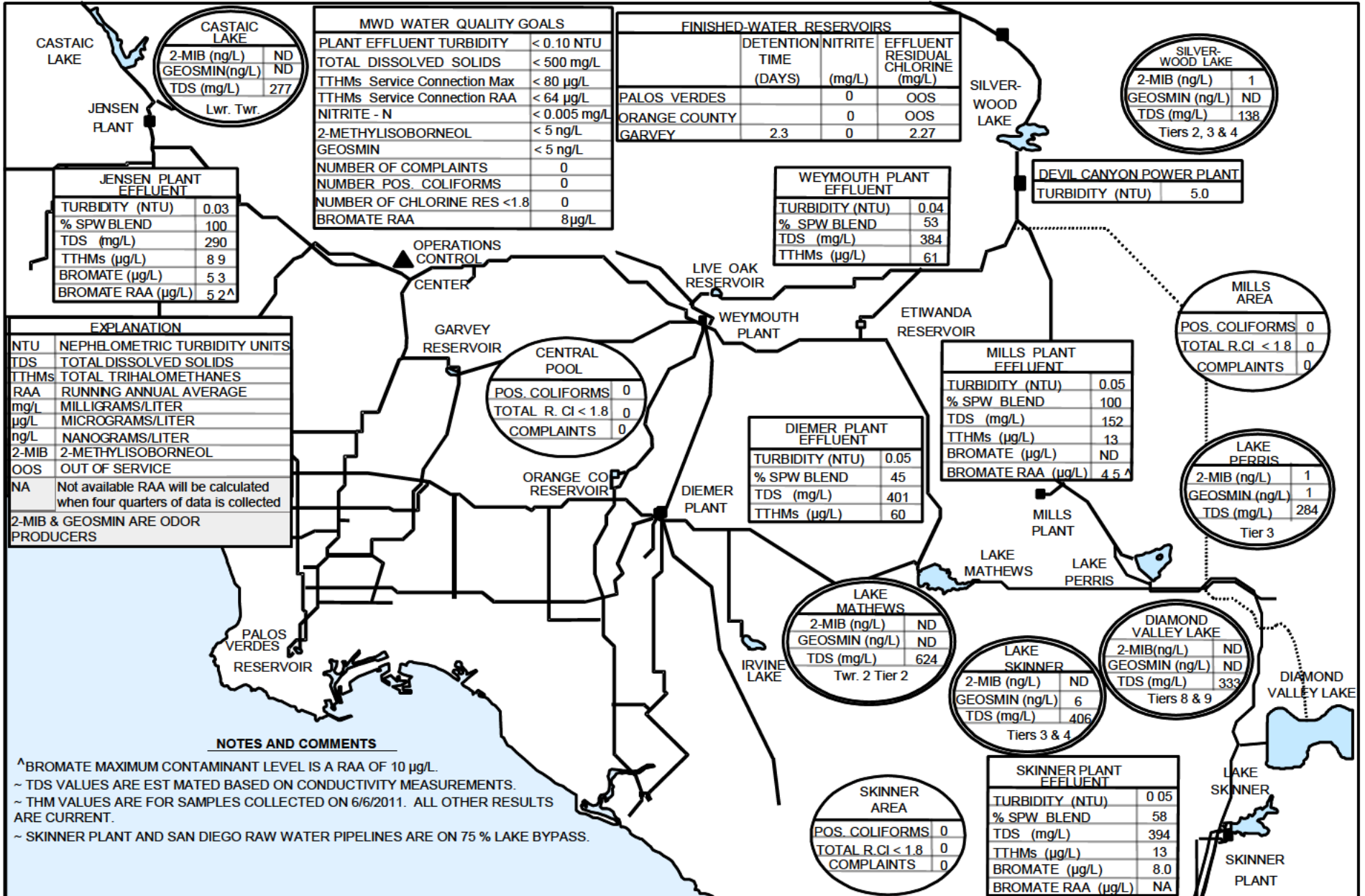
Wednesday, June 22, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

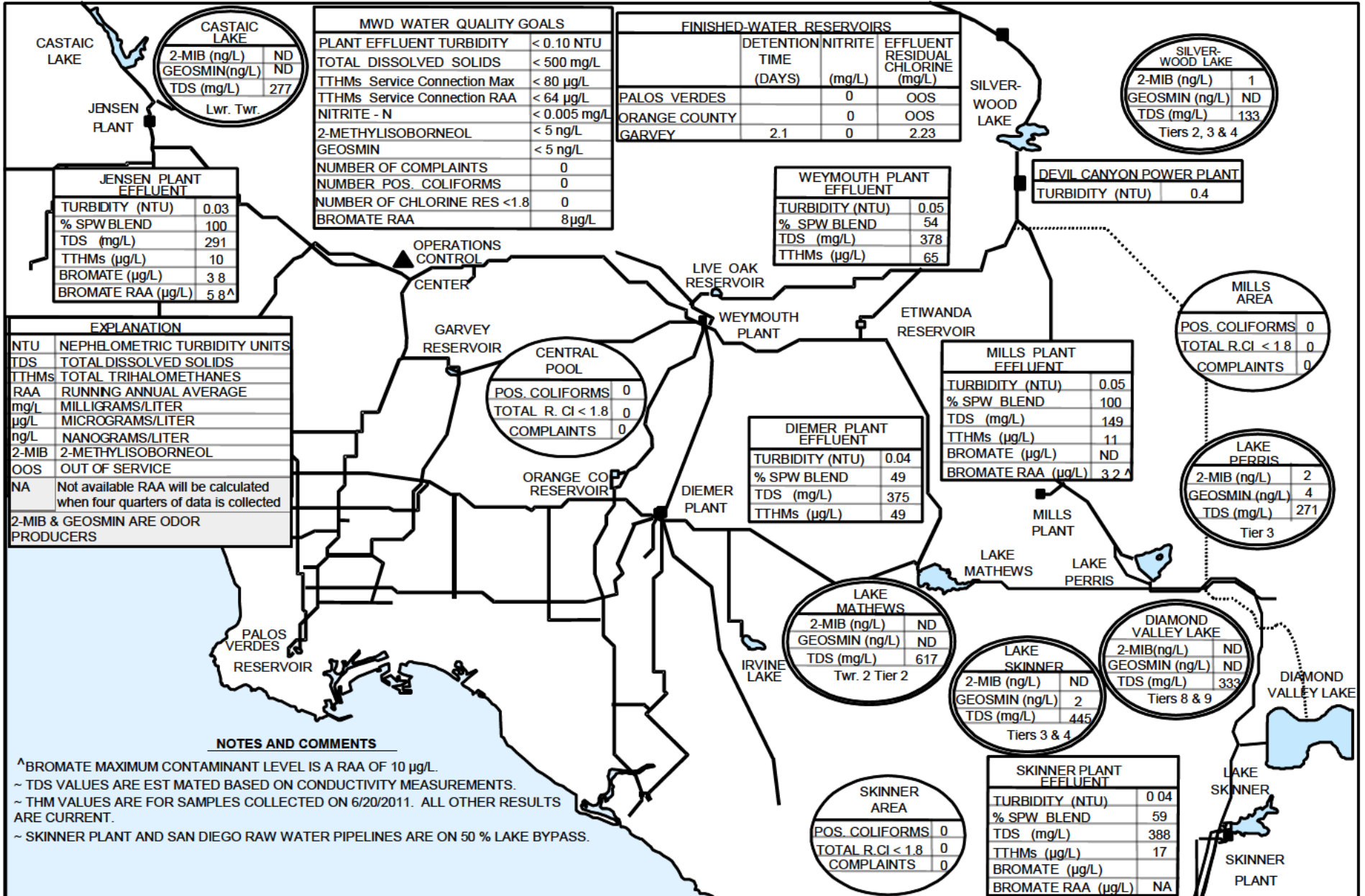
Wednesday, June 29, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

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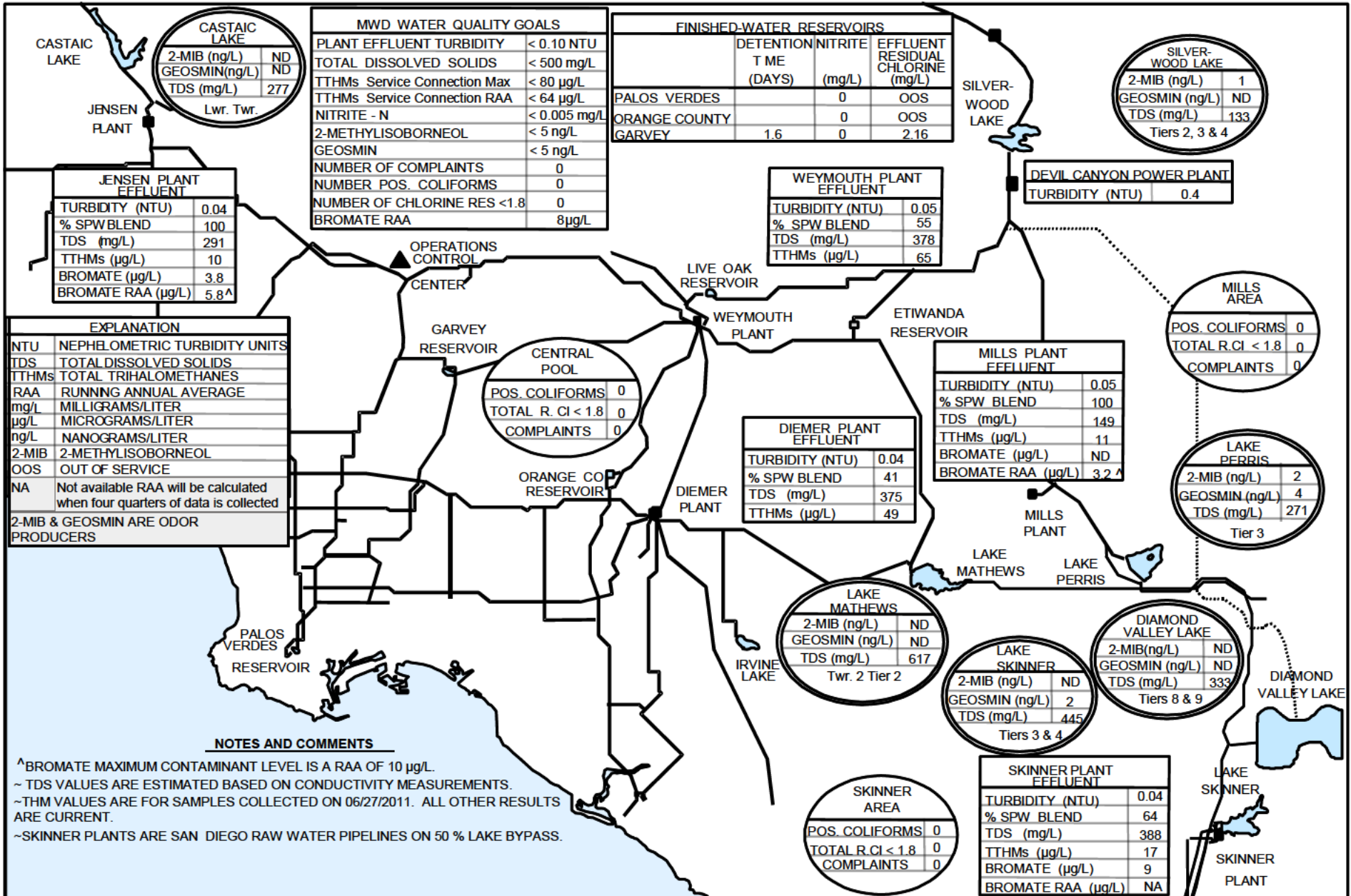
Wednesday, July 06, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

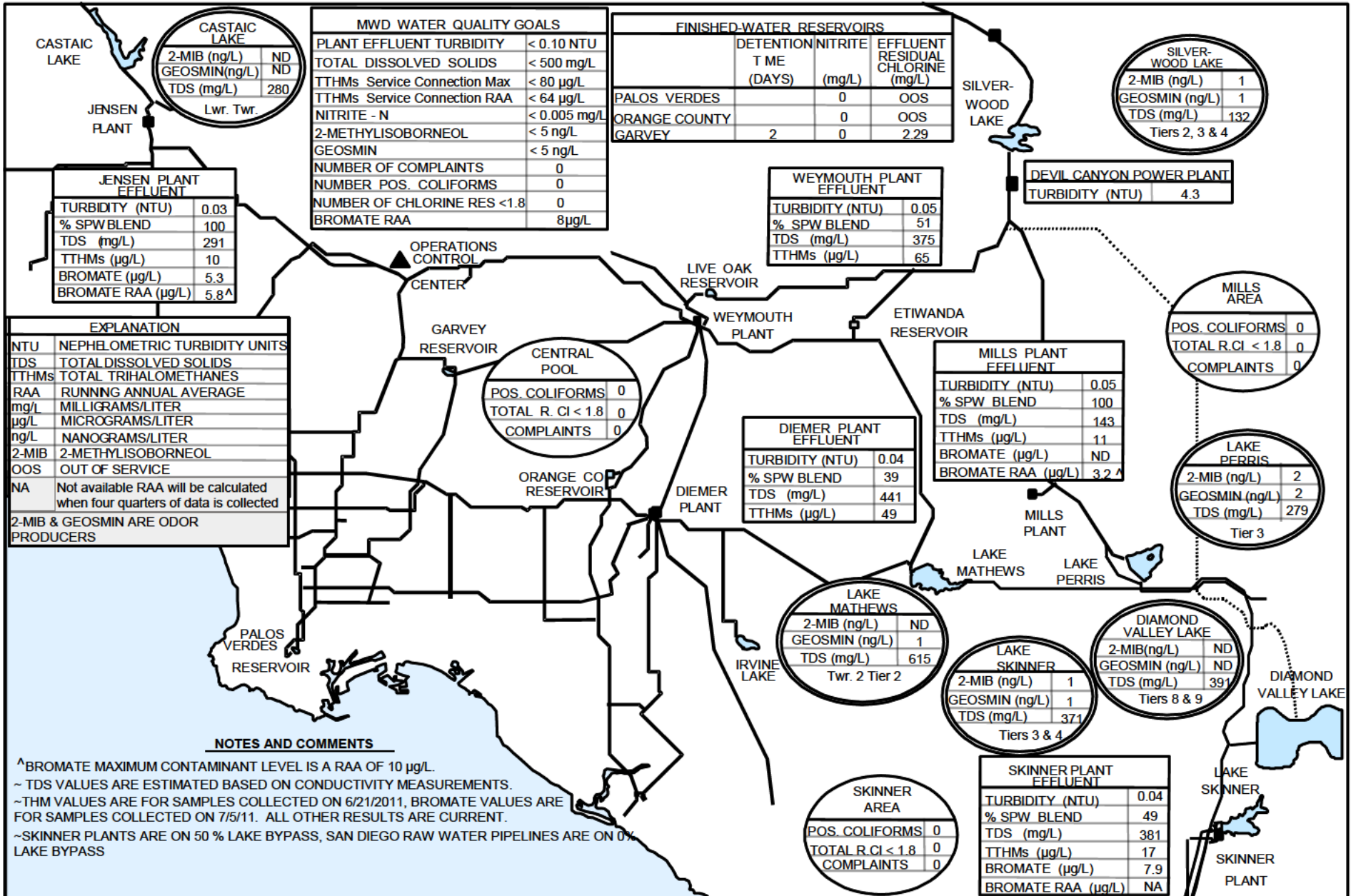
Wednesday, July 13, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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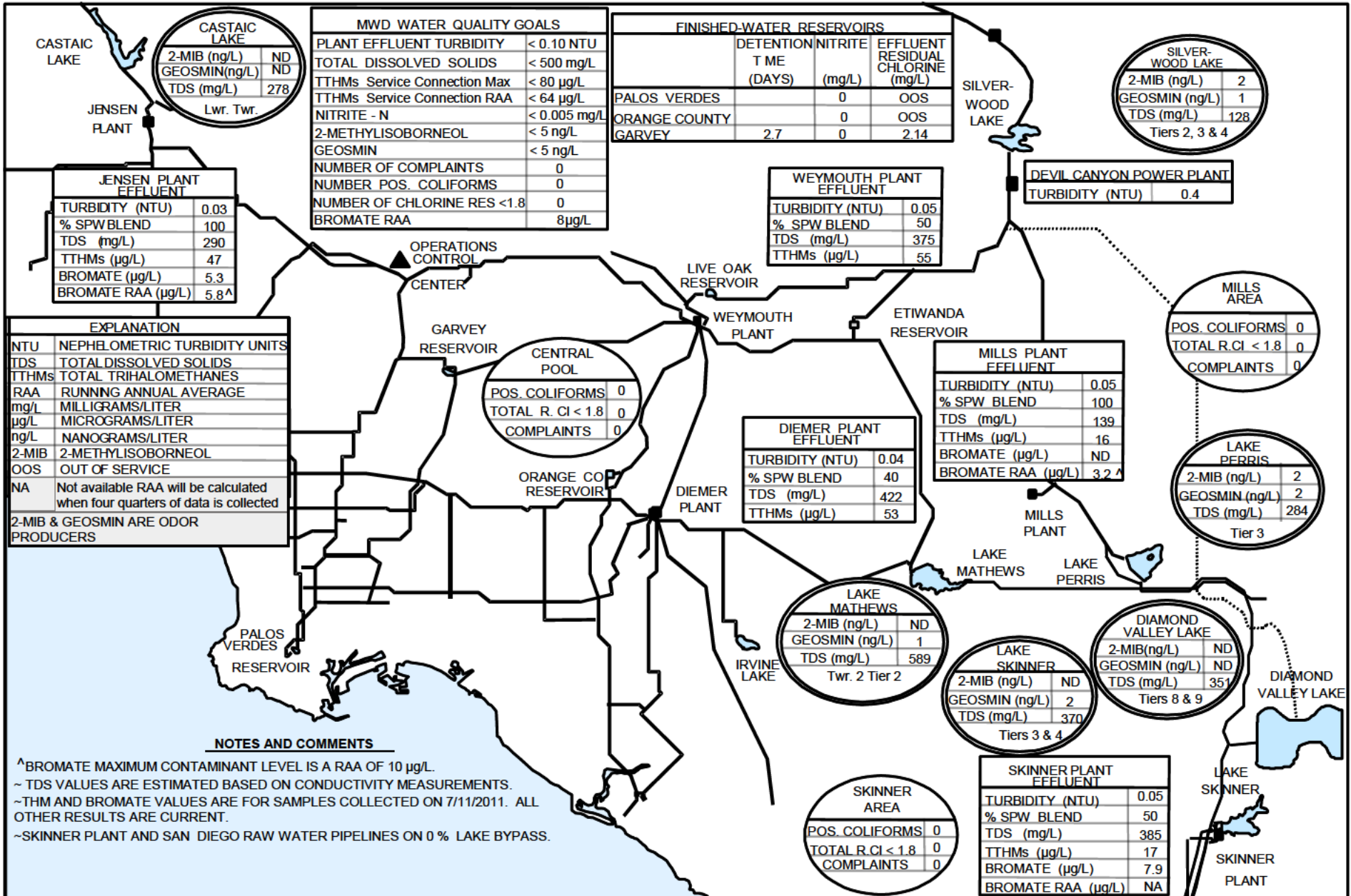
Wednesday, July 20, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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Weekly Water Quality System Status

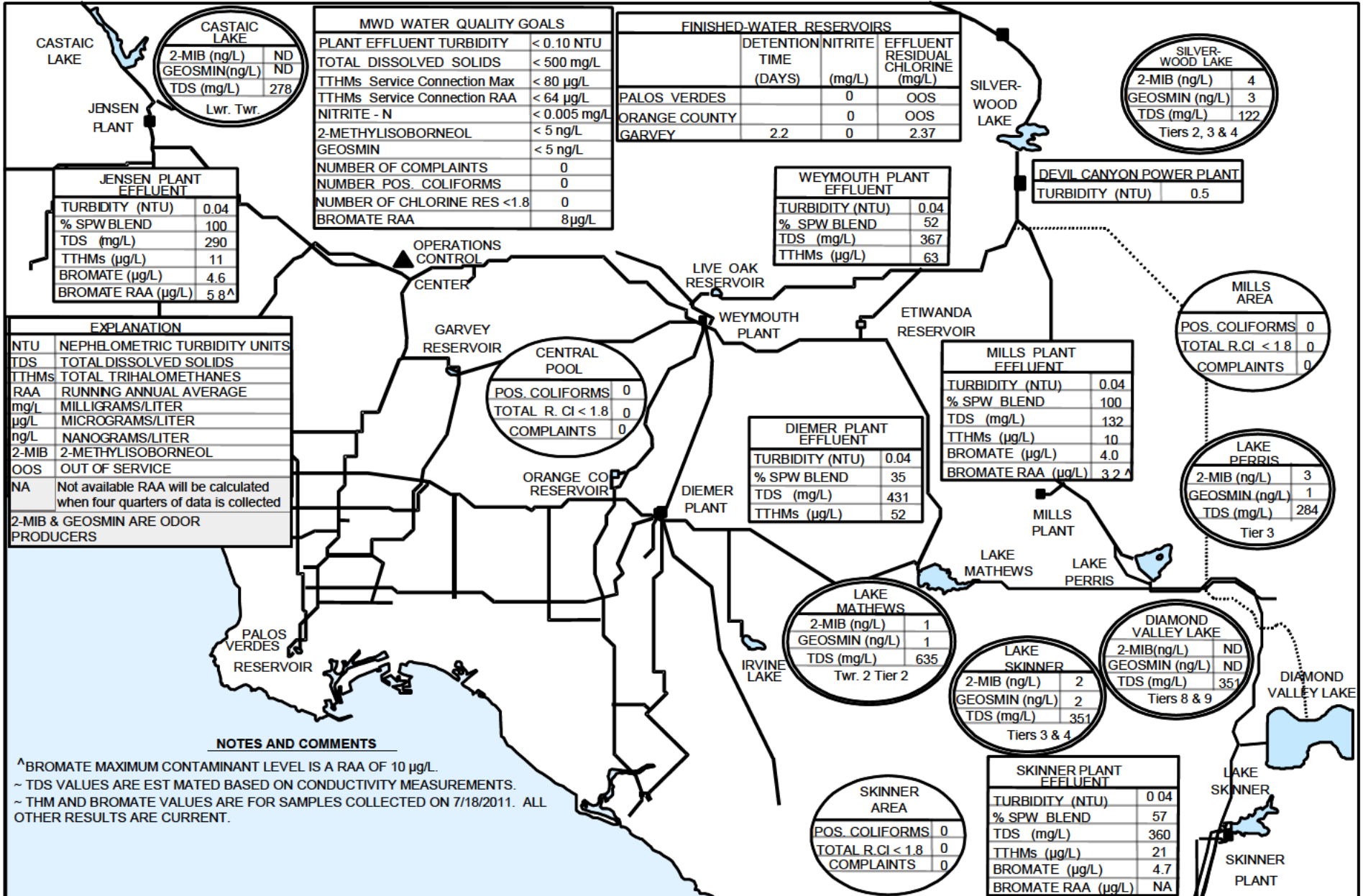
Wednesday, July 27, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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Weekly Water Quality System Status

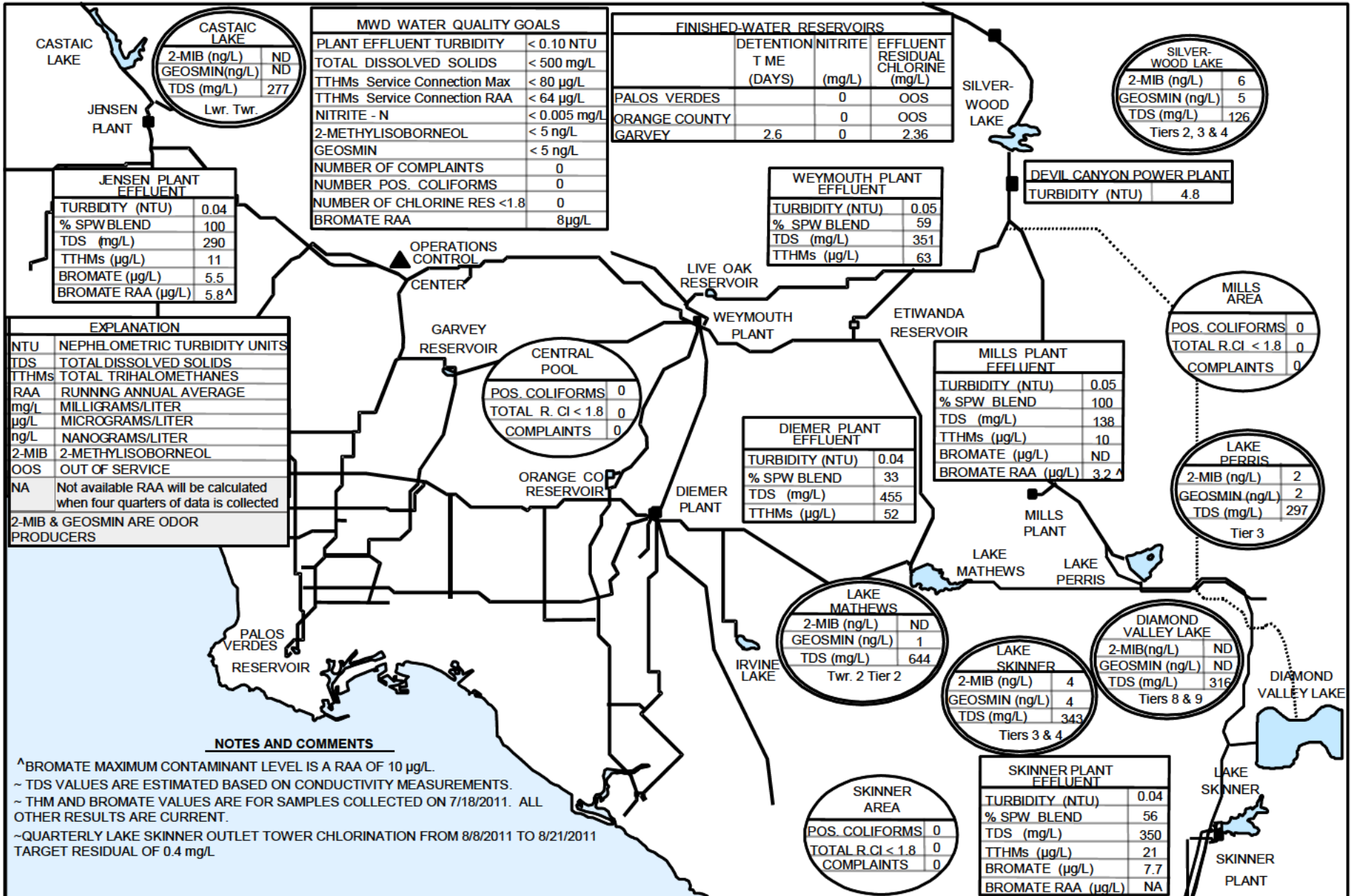
Wednesday, August 03, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

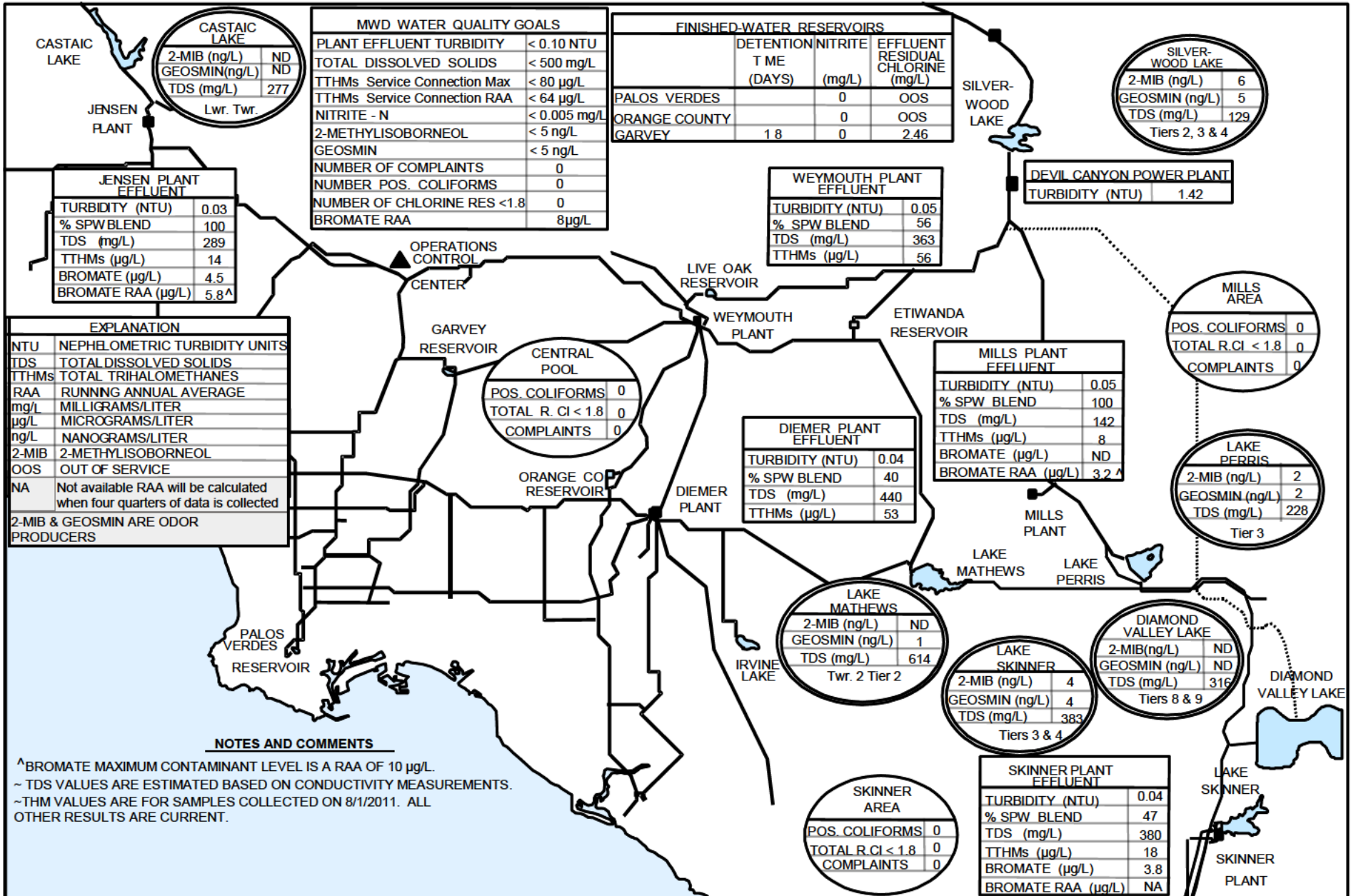
Wednesday, August 10, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

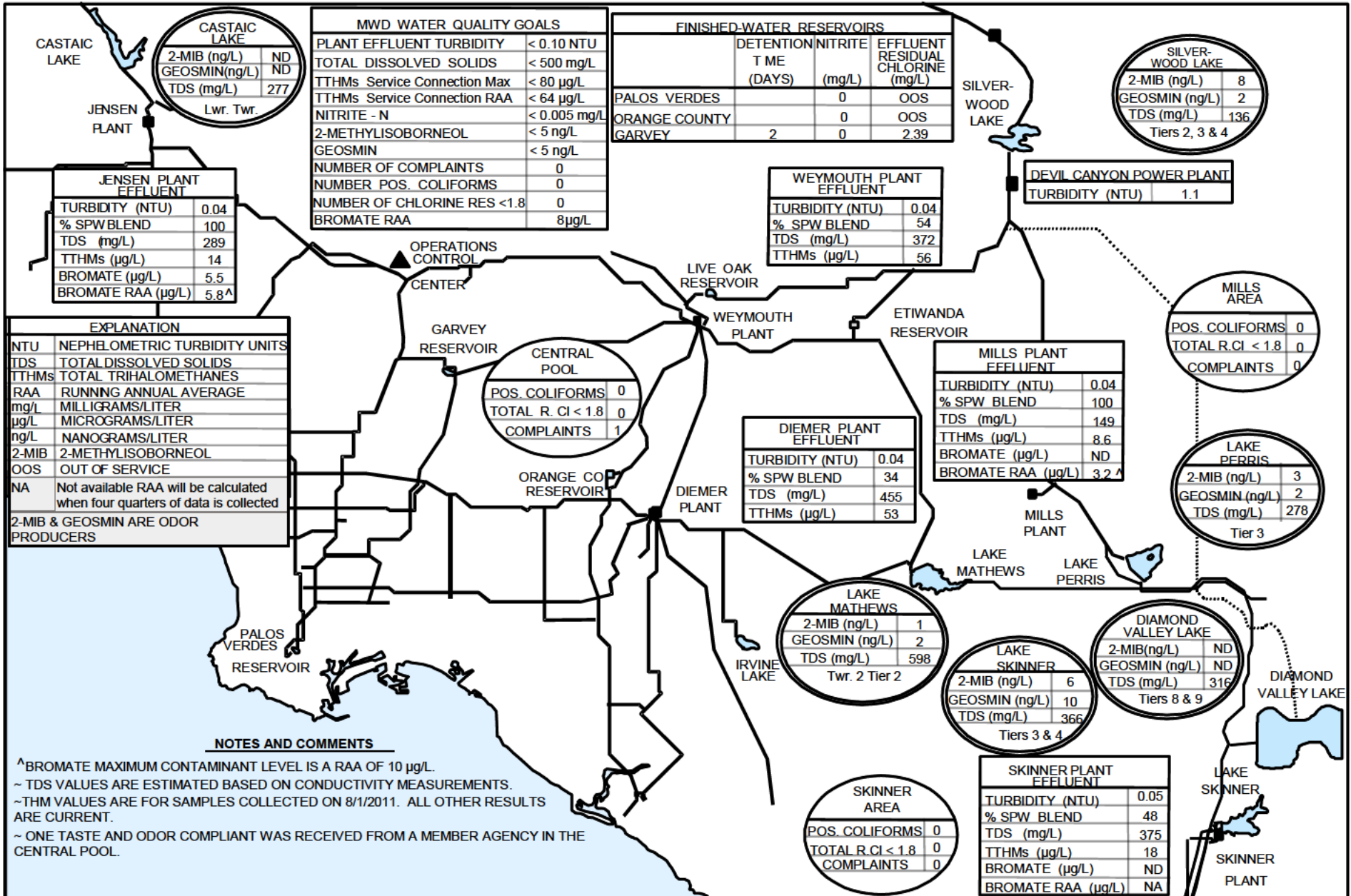
Wednesday, August 17, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

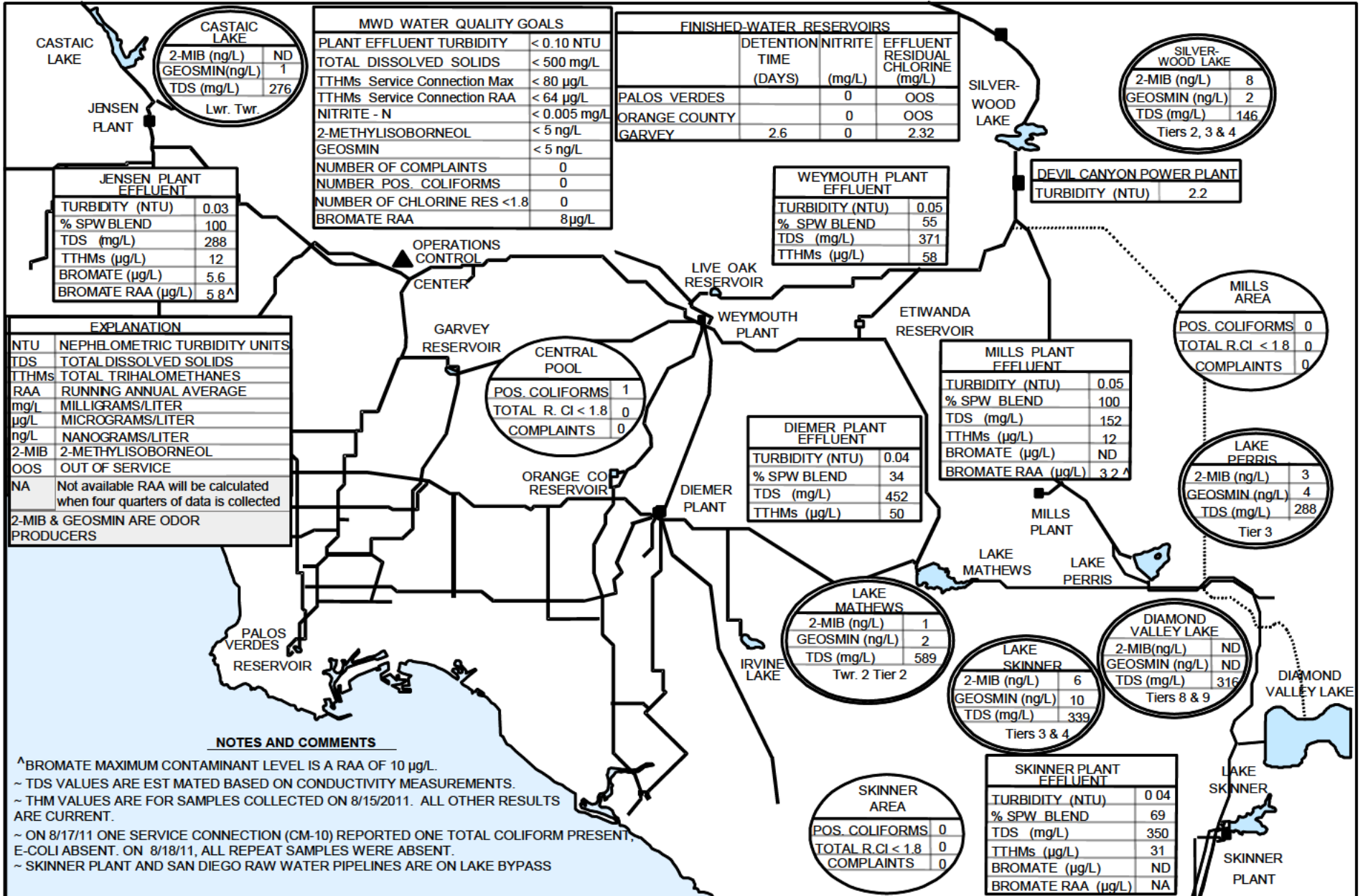
Wednesday, August 24, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

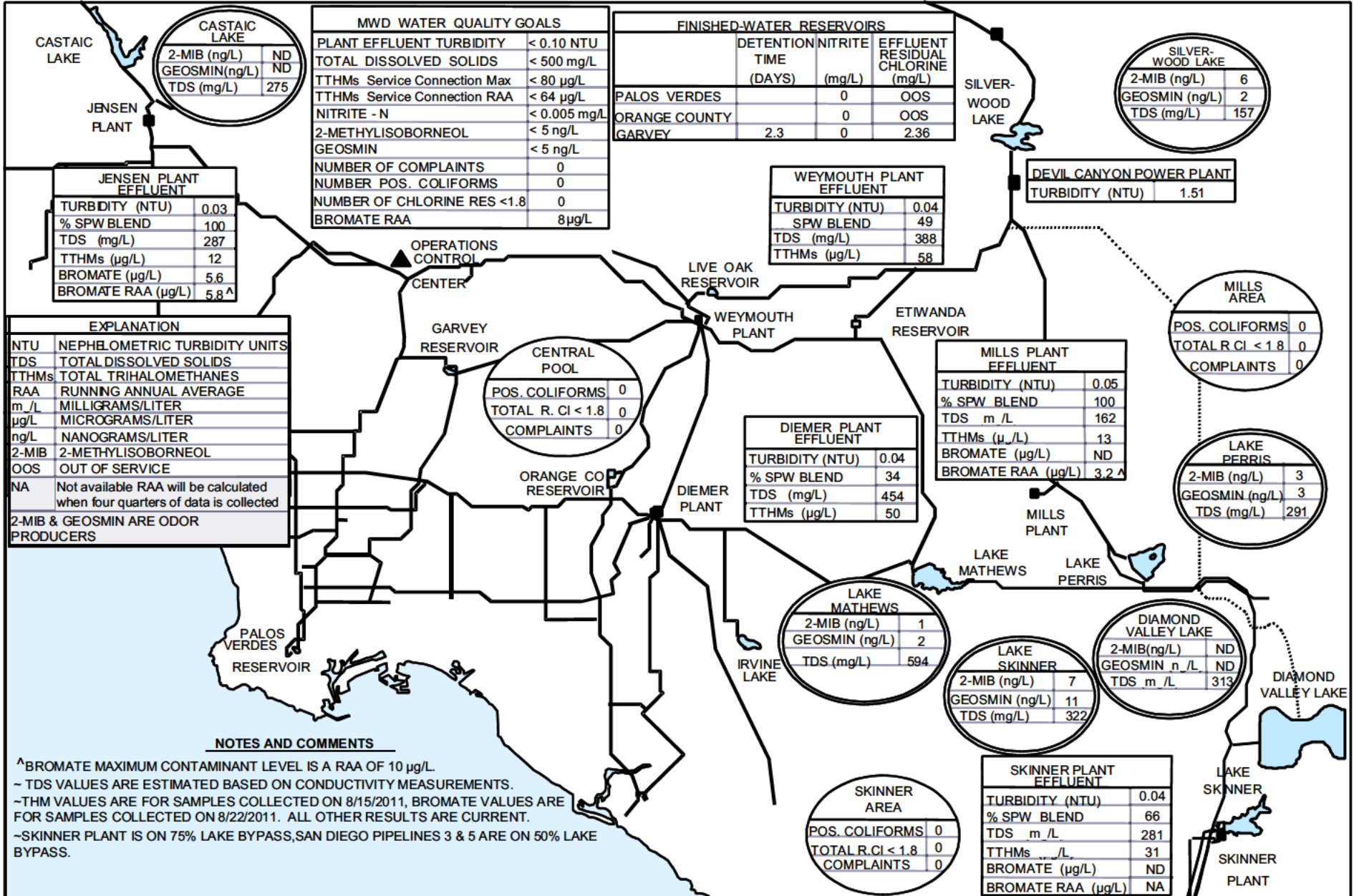
Wednesday, August 31, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

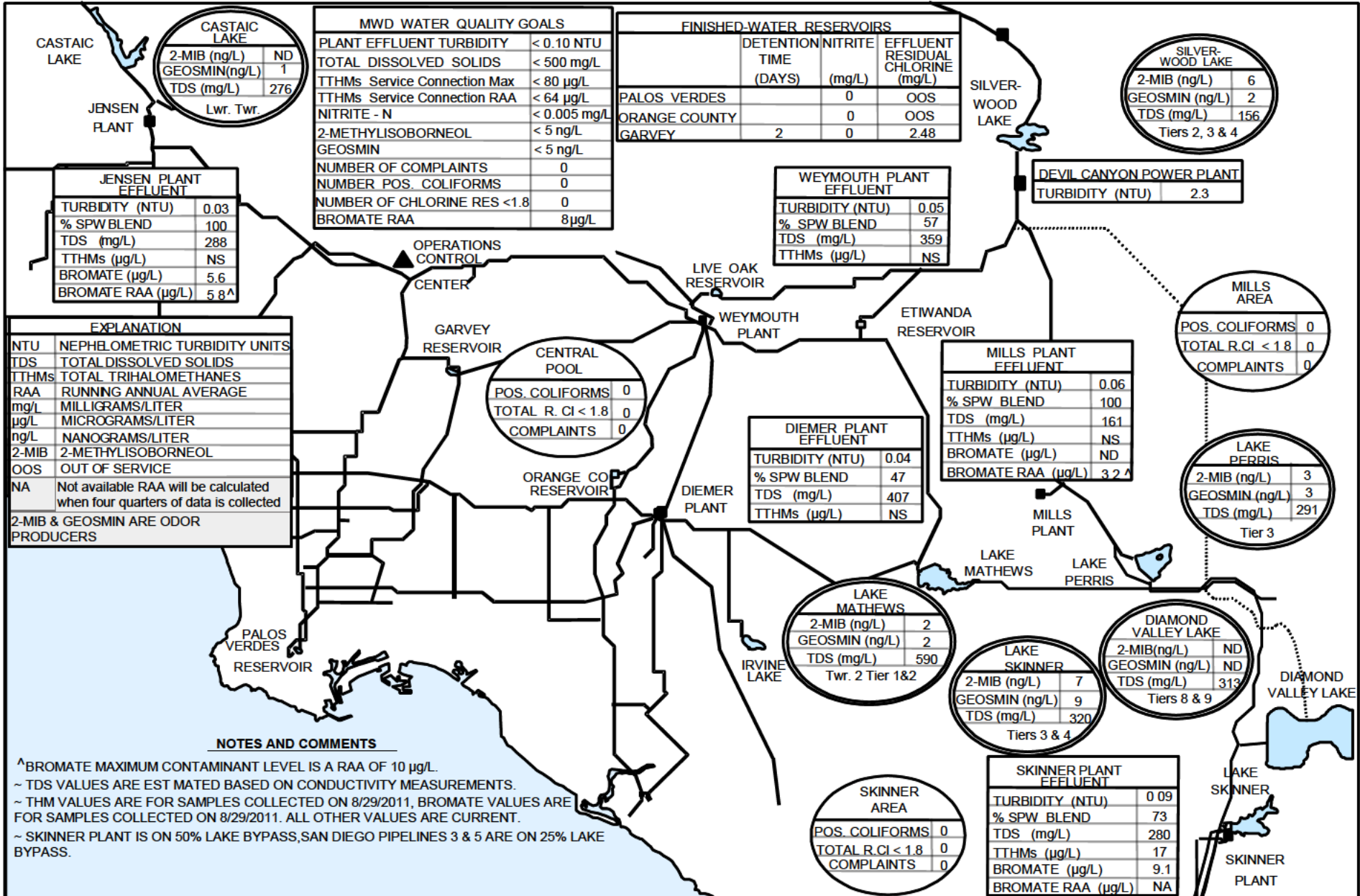
Wednesday, September 07, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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Weekly Water Quality System Status

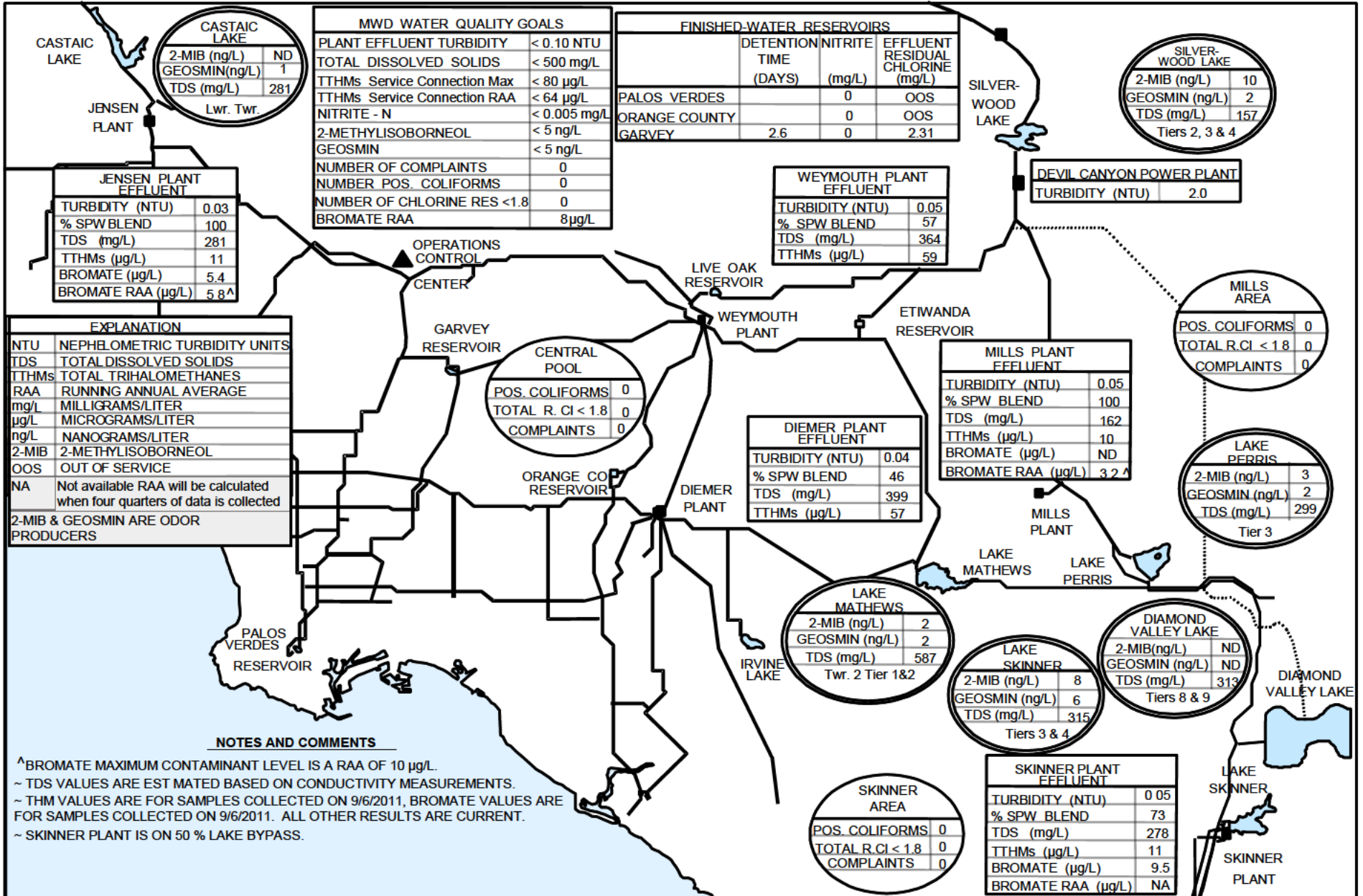
Wednesday, September 14, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



Weekly Water Quality System Status

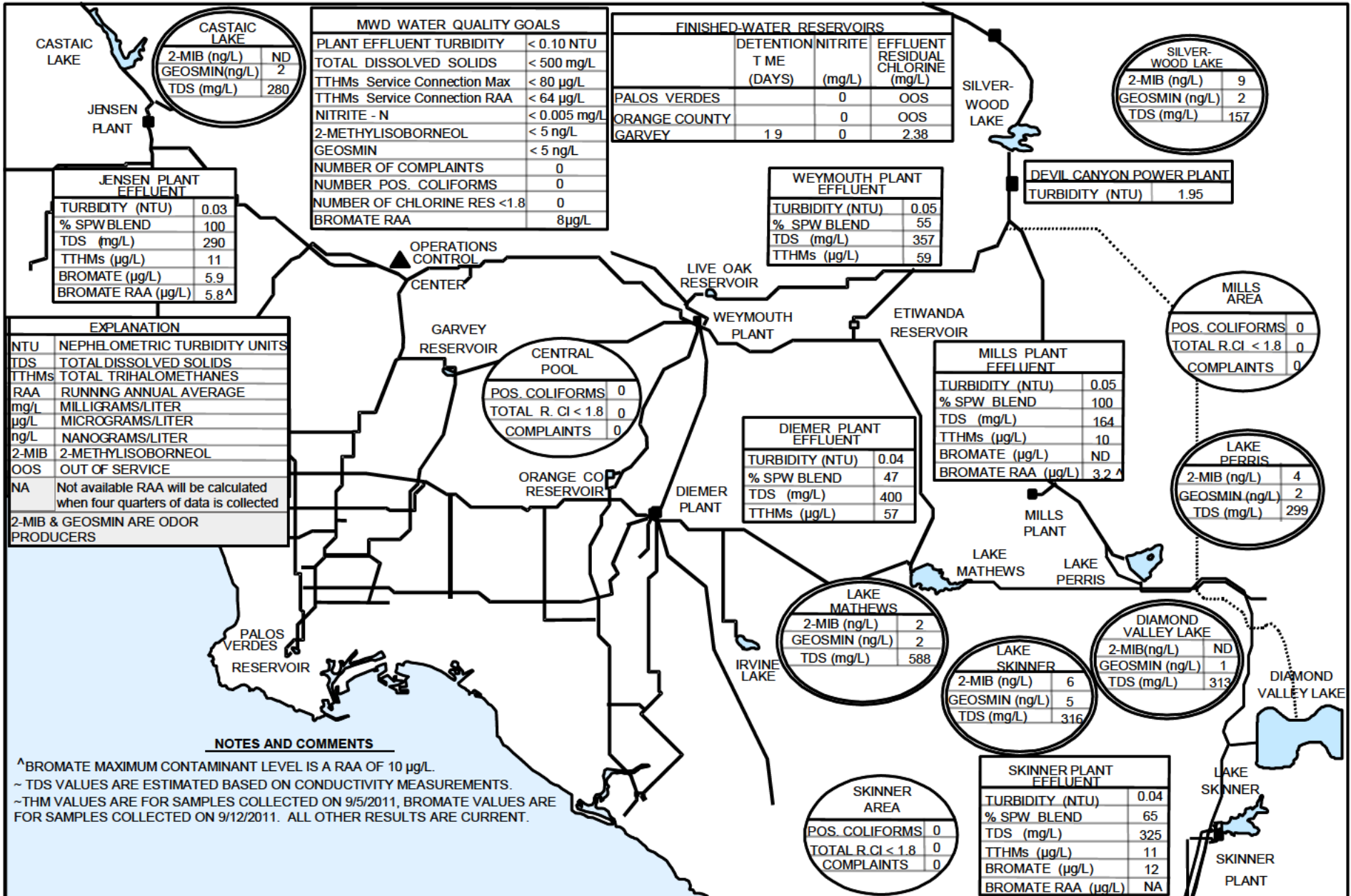
Wednesday, September 21, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

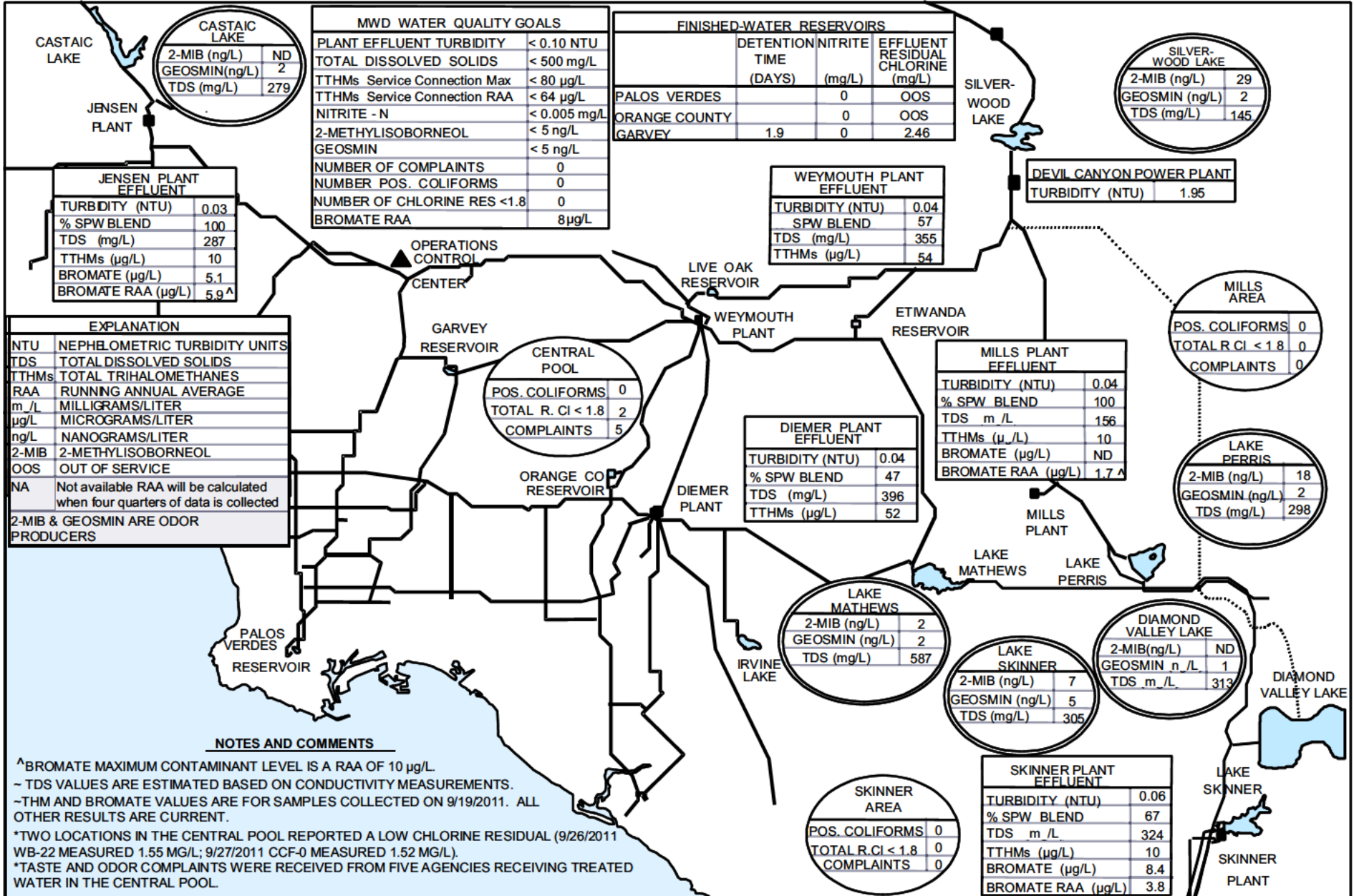
Wednesday, September 28, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

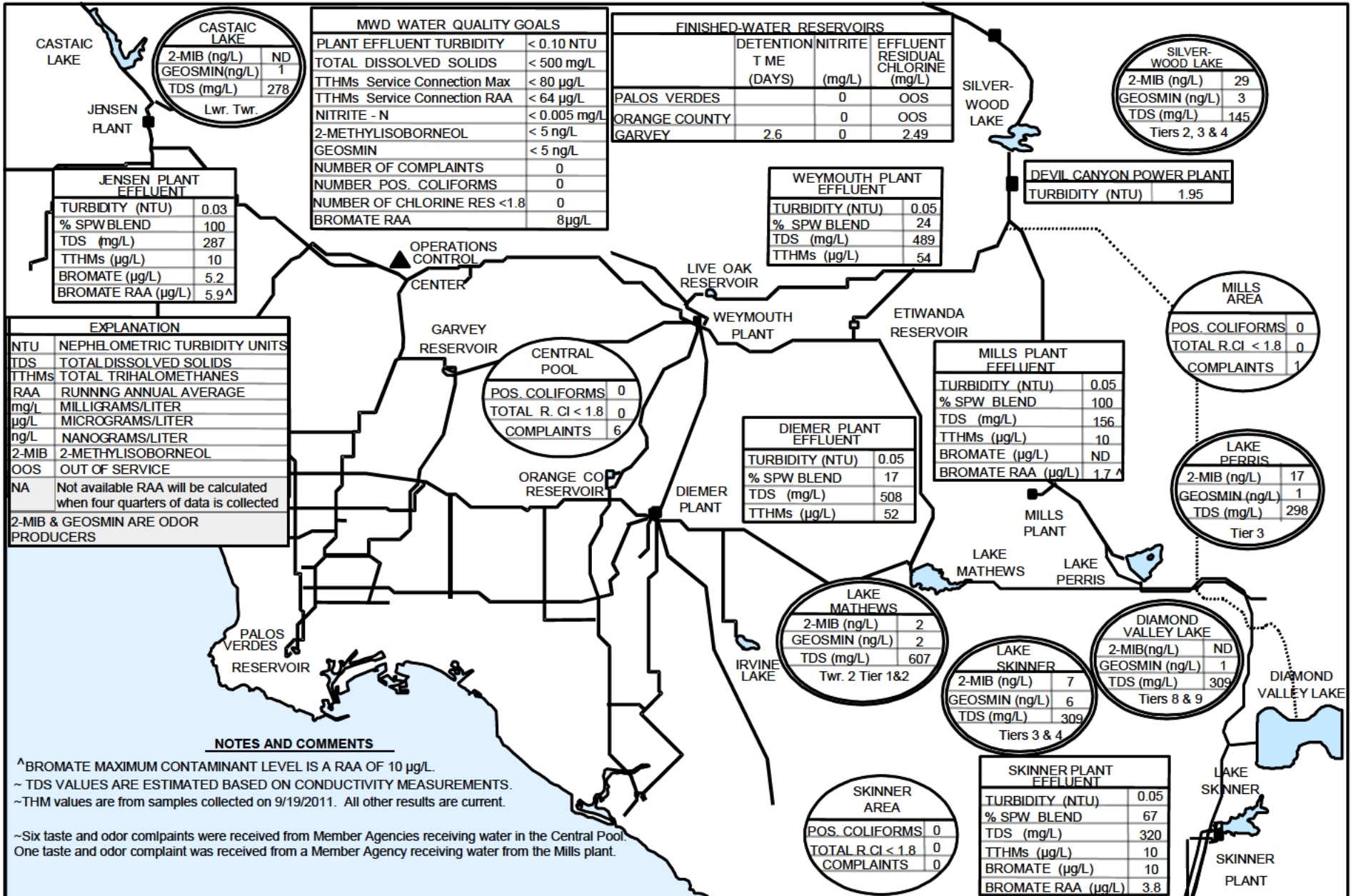
Thursday, October 06, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

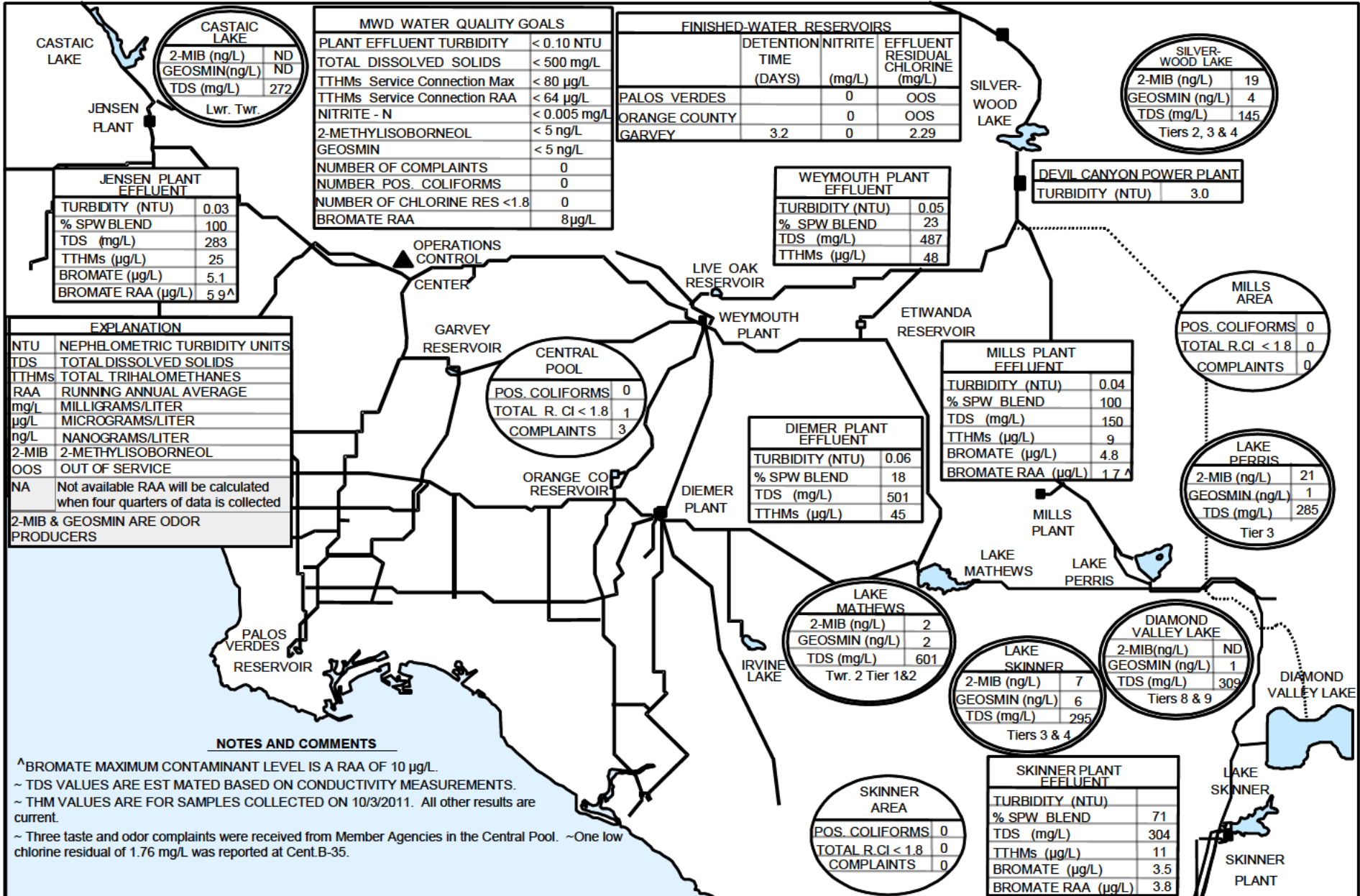
Wednesday, October 12, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

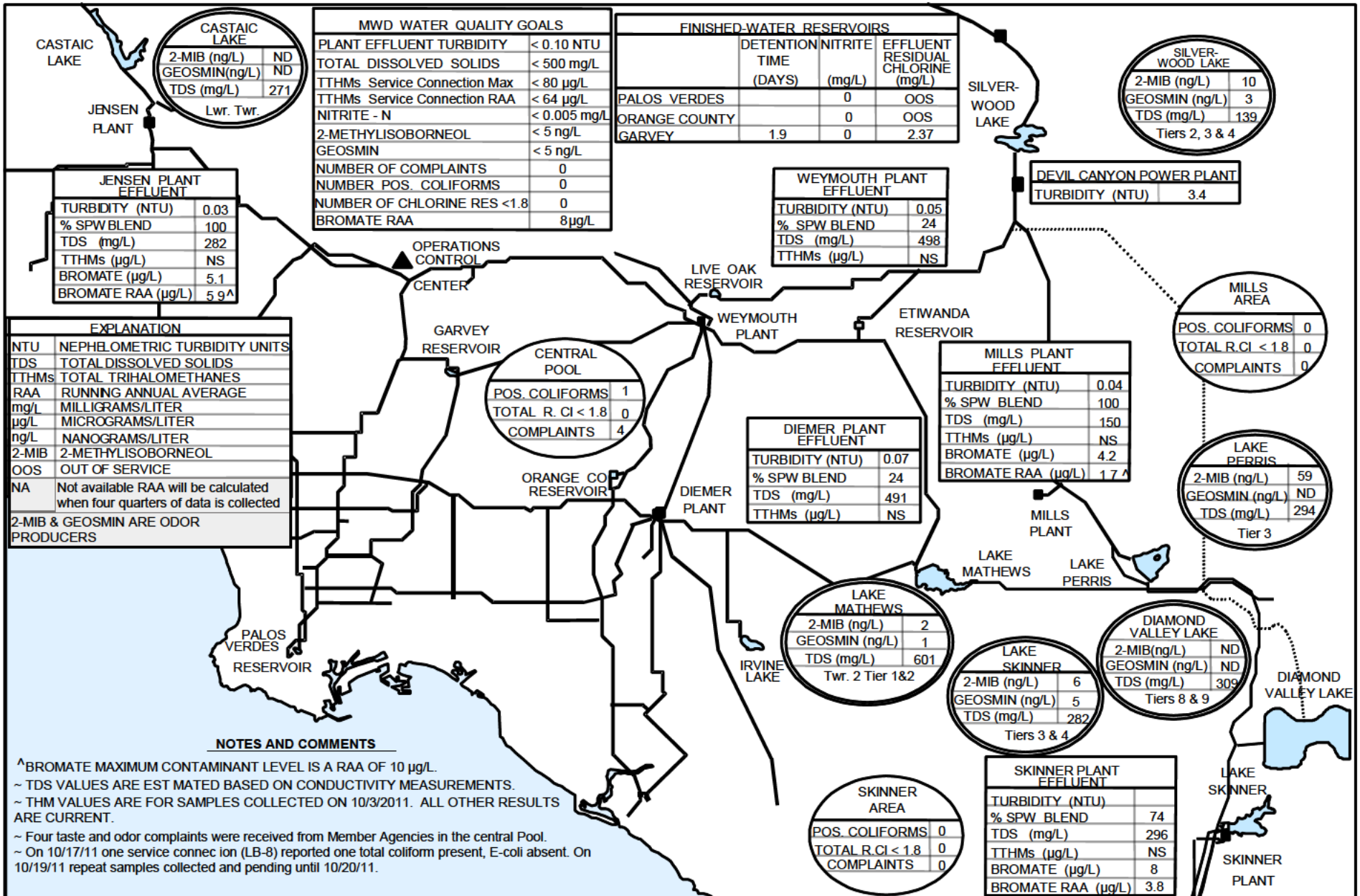
Thursday, October 20, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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Weekly Water Quality System Status

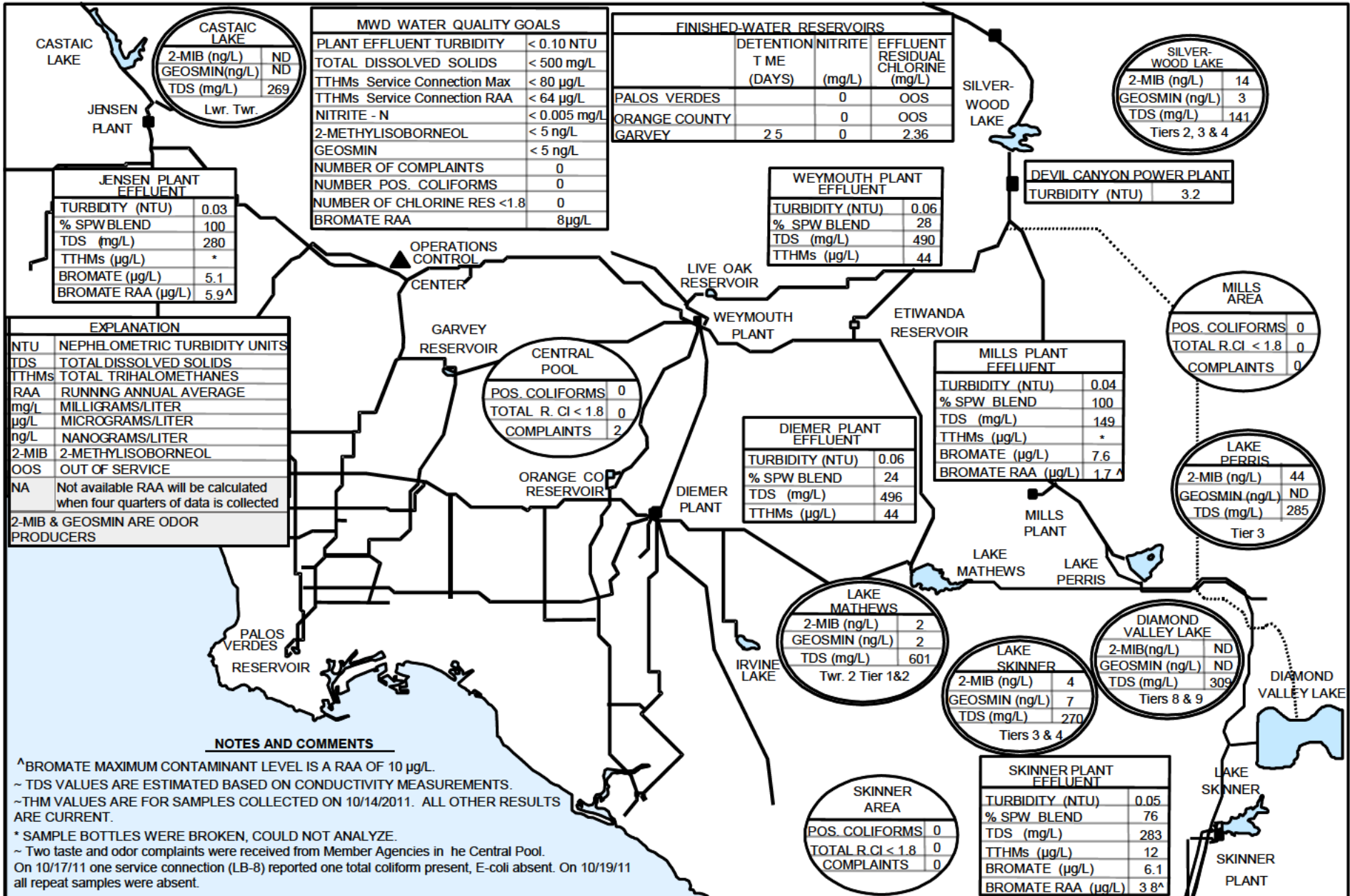
Thursday, October 27, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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Weekly Water Quality System Status

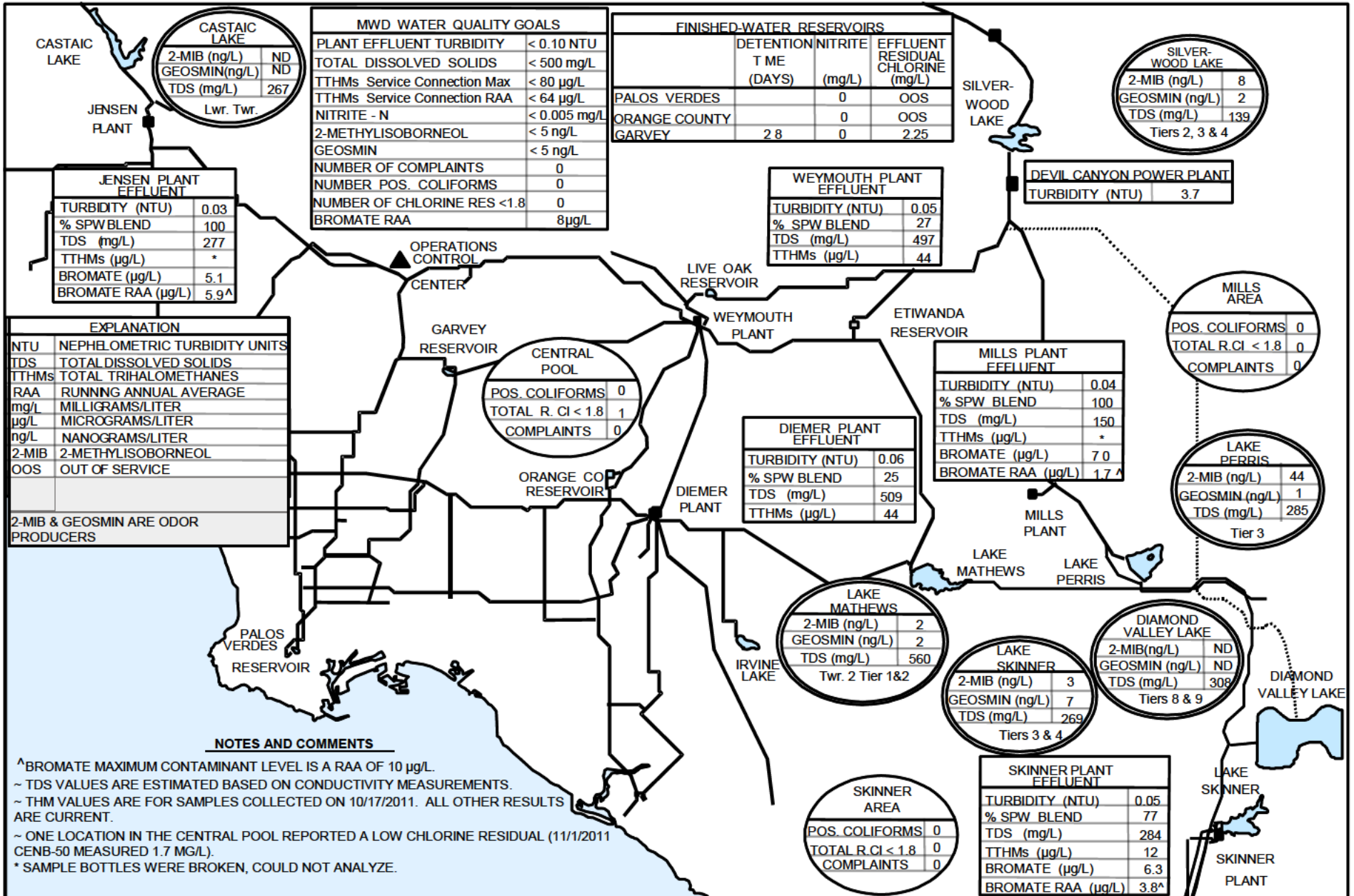
Wednesday, November 02, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

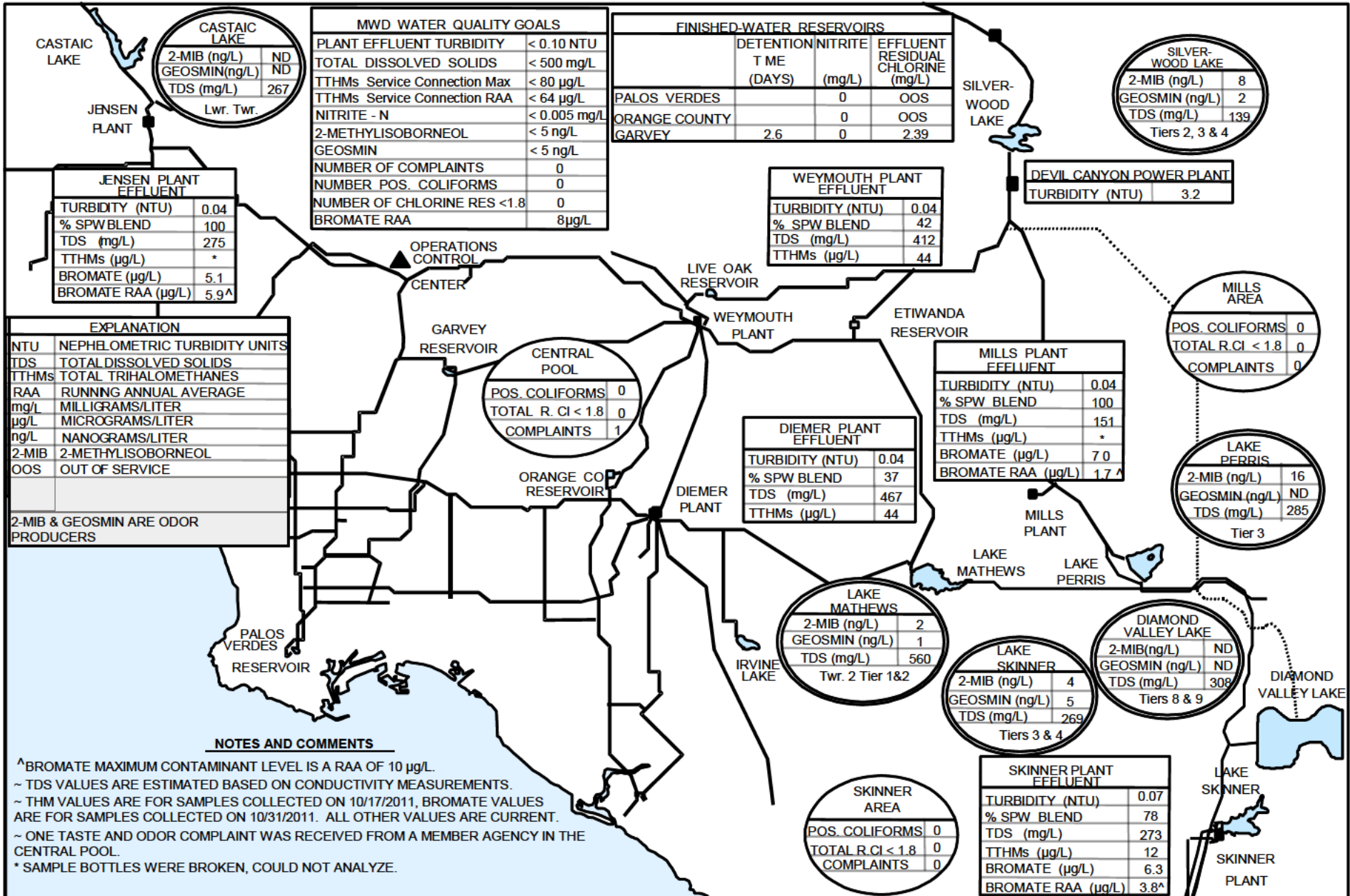
Tuesday, November 08, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

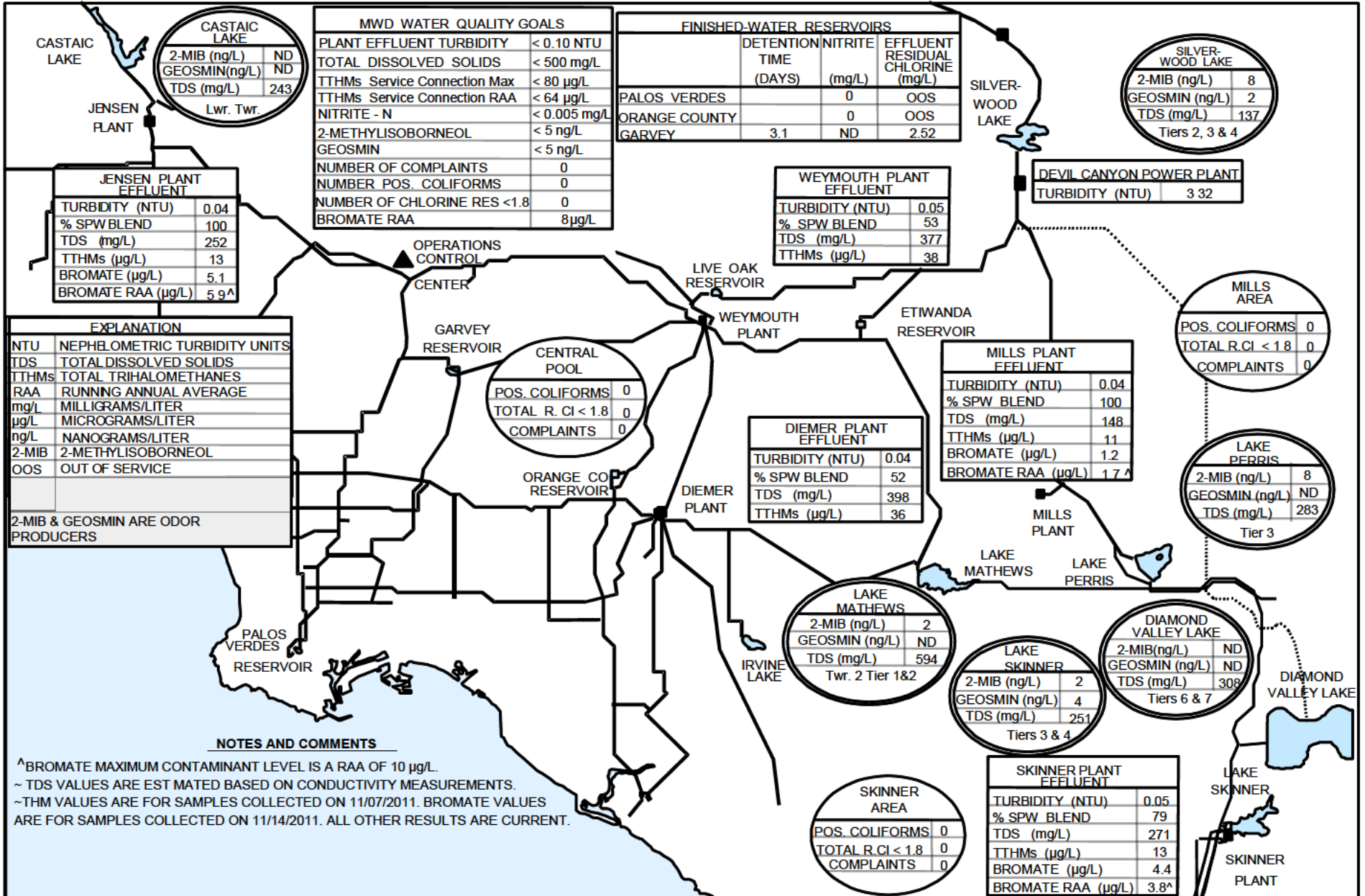
Wednesday, November 16, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

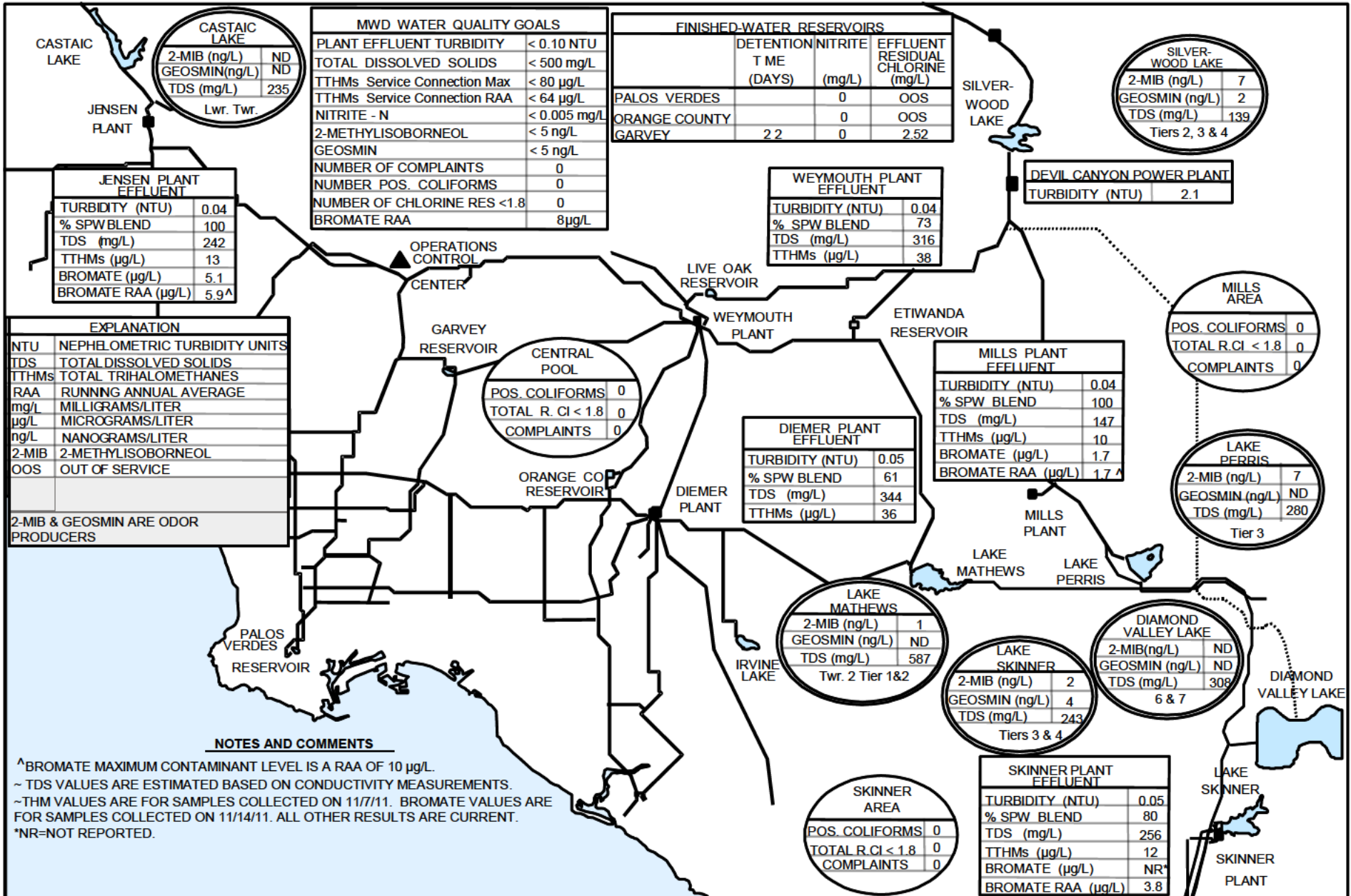
Wednesday, November 23, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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Weekly Water Quality System Status

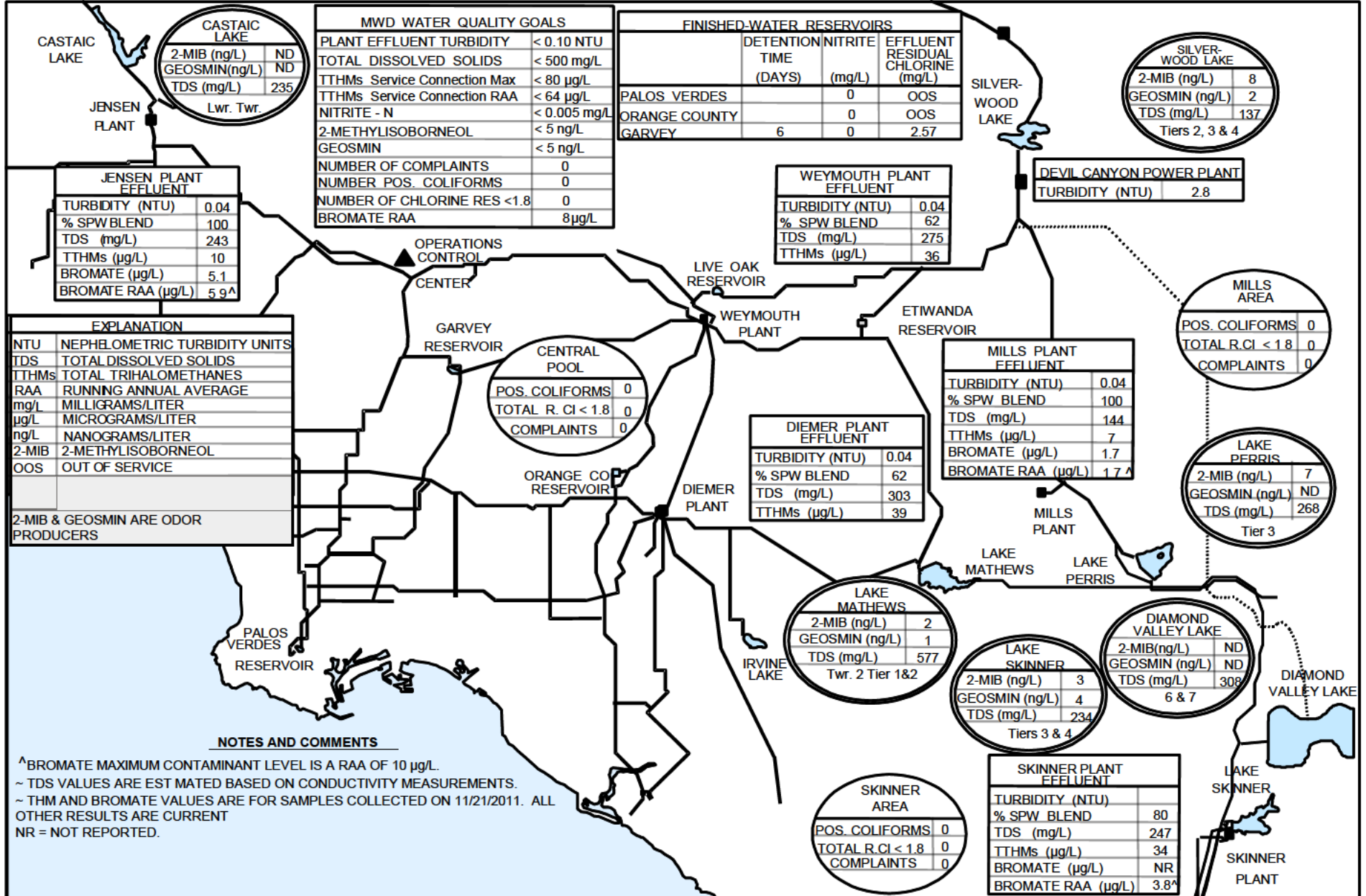
Wednesday, November 30, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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Weekly Water Quality System Status

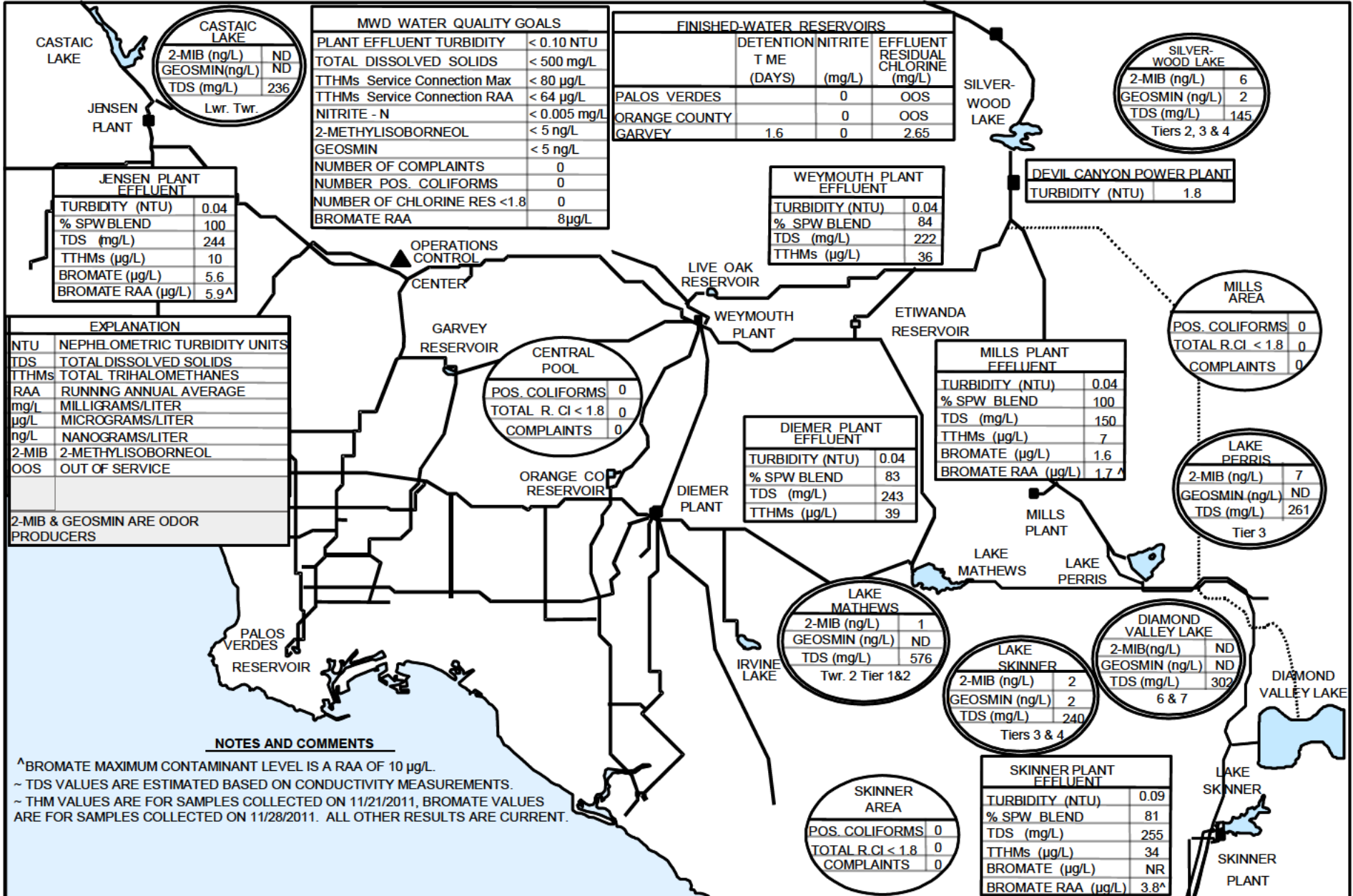
Wednesday, December 07, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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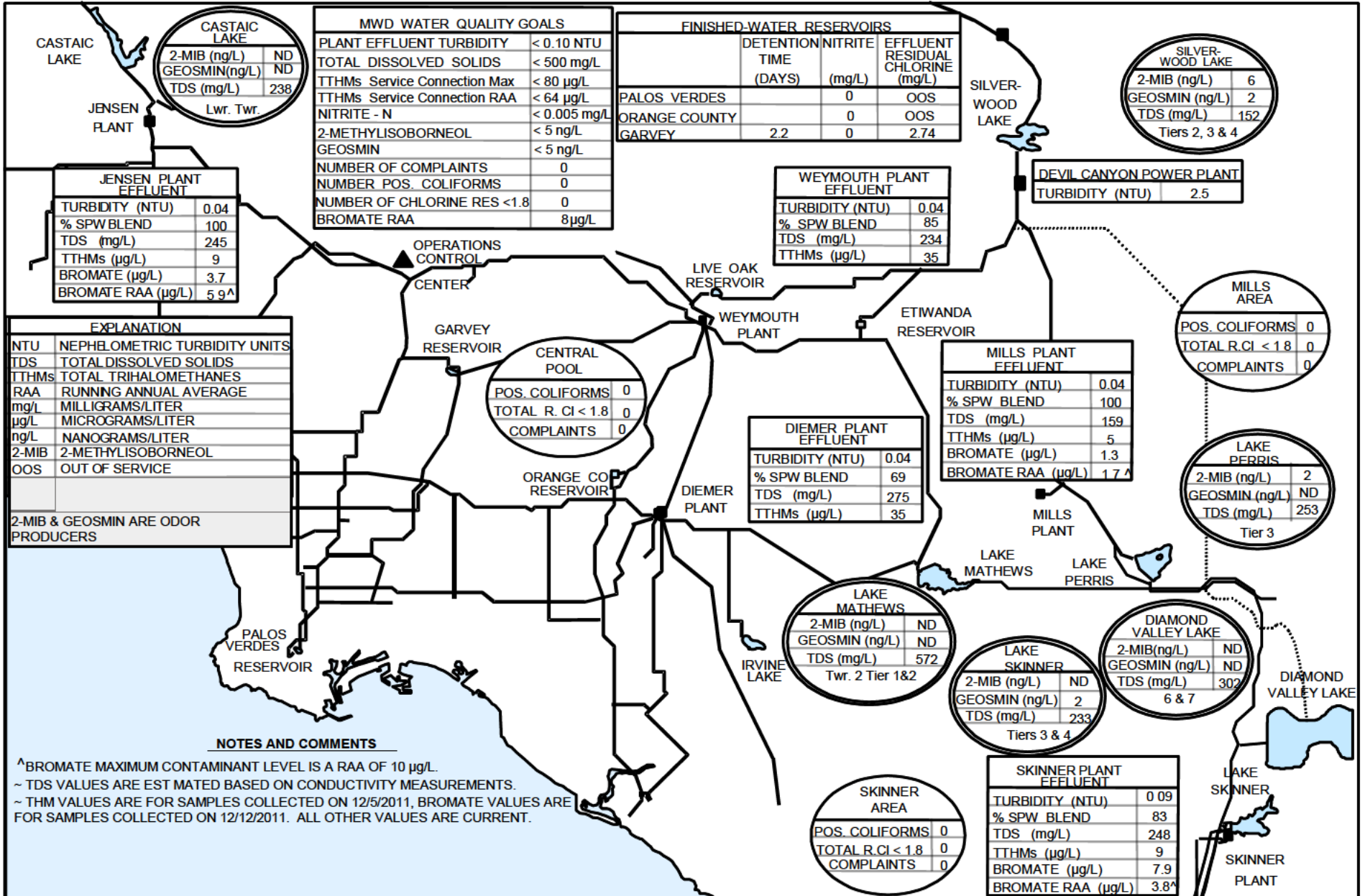
Wednesday, December 14, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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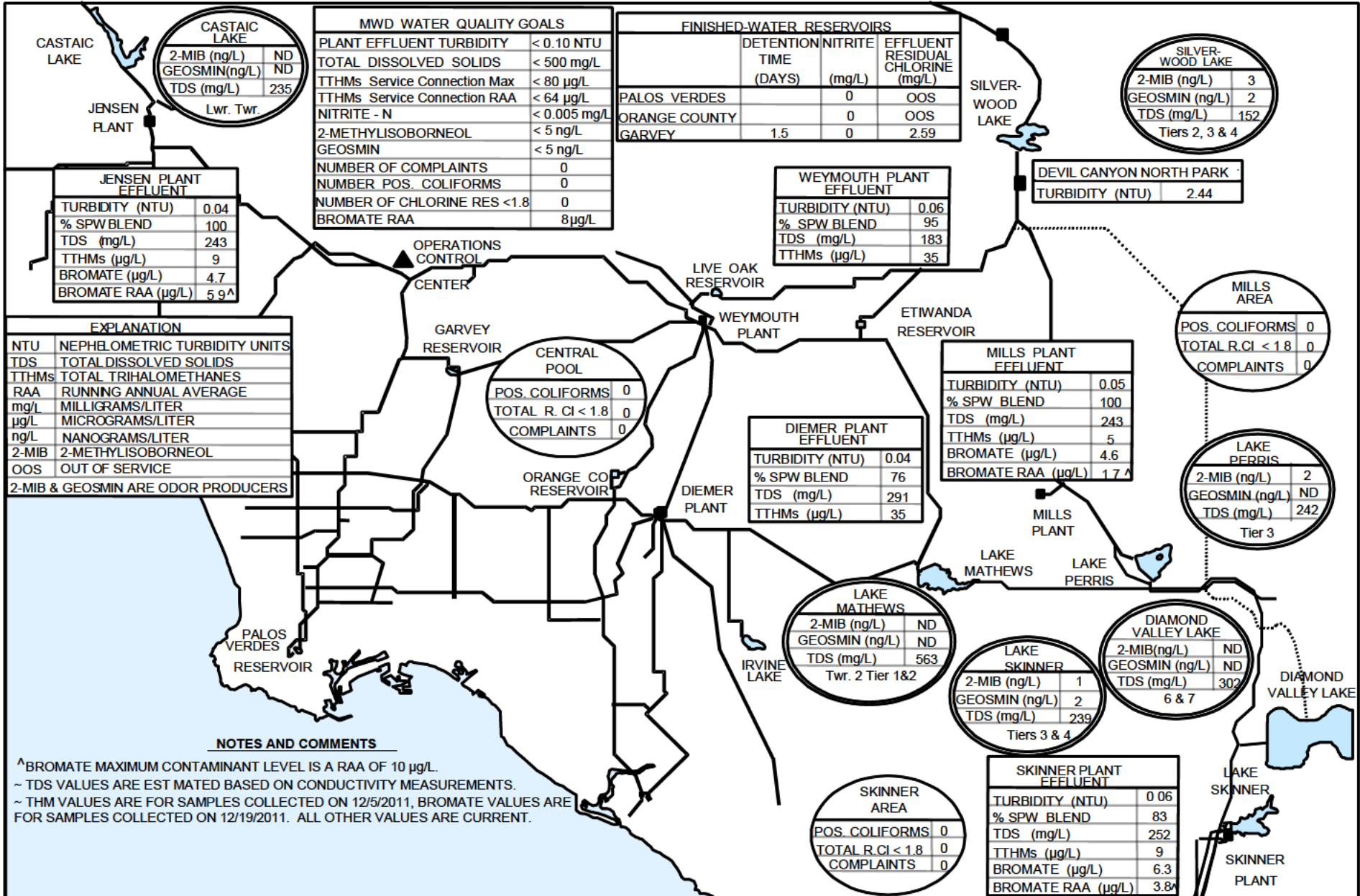
Tuesday, December 20, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



[^]BROMATE MAXIMUM CONTAMINANT LEVEL IS A RAA OF 10 µg/L.
 ~ TDS VALUES ARE EST MATED BASED ON CONDUCTIVITY MEASUREMENTS.
 ~ THM VALUES ARE FOR SAMPLES COLLECTED ON 12/5/2011, BROMATE VALUES ARE FOR SAMPLES COLLECTED ON 12/19/2011. ALL OTHER VALUES ARE CURRENT.

MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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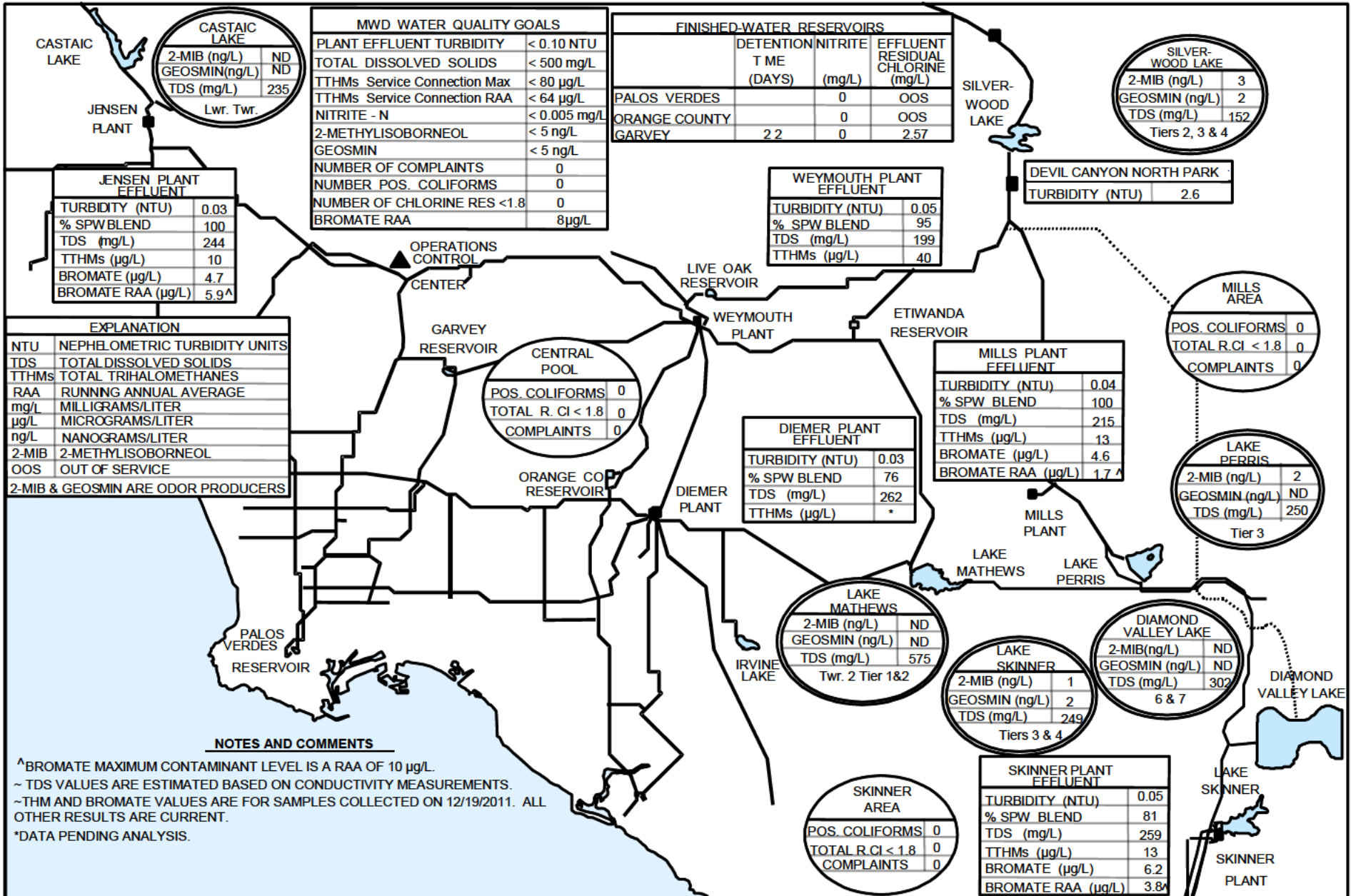
Thursday, December 29, 2011

DTX-1122



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



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WEST POWER MARKETS

Dailies move up as terms decline

Western day-ahead on-peak prices for Tuesday delivery were marginally stronger Monday on higher spot gas prices, while off-peak prices slipped. Term markets dropped back as the NYMEX March natural gas futures contract settled at \$2.713/MMBtu, 4.3 cents lower than Friday's close.

In the Pacific Northwest, Mid-Columbia on-peak prices gained about 20 cents trading around \$24.25/MWh on IntercontinentalExchange. Mid-C off-peak prices were down about 65 cents from weekend packages, trading around \$21.75/MWh. OPAL spot gas jumped up 14 cents to around \$2.68/MMBtu on ICE. High temperatures in Portland, Oregon, were forecast around 50 for Tuesday, with lows around 40 and continued rain. The Bonneville Power Administration showed wind generation around 2,940 MW at 1:15 p.m. EST, and hydro generation was at 8,780 MW. Wind was expected to peak Tuesday around 1,350 MW.

Mid-C on-peak balance-of-the-week swaps had bids at \$24/MWh without offers on ICE. Northwest load was projected rising Monday to 54,440 MW from Sunday's peak of 53,570 MW.

In the desert Southwest, Palo Verde on-peak prices took on 45 cents, trading around \$26.25/MWh on ICE. Palo Verde off-peak prices slipped \$1.30 to \$19.50/MWh. Tuesday high temperature in Phoenix was forecast in the low 70s with lows in the low 40s. Southwest peak load was projected near 14,670 MW Monday, higher than Sunday's peak of 14,145 MW.

In California, SP15 on-peak financial swaps gained about 20 cents to trade around \$28.45/MWh on ICE. SP15 off-peak was down \$1.25 trading near \$21/MWh. NP15 on-peak gained 25 cents to \$29.50/MWh, while off-peak shed \$1.25 to \$22.25/MWh on ICE. SP15 on-peak bal-week swaps had bids at \$27.75 and offers at \$30/MWh. Next-week was bid at \$28.25 and offered at \$40/MWh. High temperatures in Sacramento were forecast in the upper 50s Tuesday with lows in the upper 30s. Burbank highs were expected at 70 degrees, with lows in the lower 50s. Pacific Gas & Electric spot gas prices gained 9 cents to around \$3.055/MMBtu on ICE. The California Independent System Operator forecast the state's demand to peak Tuesday at 29,795 MW, just over Monday's peak of 29,250 MW. Cal-ISO wind generation was around 20 MW at 1:15 p.m. EST.

In the Northwest term markets, Mid-Columbia on-peak February decreased about 25 with bids at \$24.50 and offers at \$24.70/MWh on ICE around 2:30 p.m. EST. Mid-C off-peak February slipped 25 cents to about \$22/MWh. Mid-C on-peak second-quarter 2012 slipped 25 cents to about \$20.60/MWh. Mid-C on-peak third-quarter 2012 fell 25 cents to \$31.50/MWh. In California, SP15 on-peak February financial swaps were down 25 cents with bids at \$28.35 and offers at \$28.60/MWh on ICE. SP15 Q2 2012 moved down 50 cents to about \$28.60/MWh. NP15 February came off 25 cents to about \$28.75/MWh. In the Southwest, Palo Verde on-peak February fell 25 cents to about \$26.25/MWh and Q2 2012 fell 50 cents to about \$29/MWh.

Day-ahead markets for delivery Jan 31(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	27.06	0.01	27.00-27.25	6	225	27.67
Mid-C	24.10	0.04	23.75-24.75	133	3,425	26.02
Palo Verde	26.25	0.43	26.25-26.25	N.A.	N.A.	26.95
Mead	28.00	0.50	28.00-28.00	N.A.	N.A.	28.27
Mona	25.00	0.50	25.00-25.00	N.A.	N.A.	25.12
Four Corners	26.00	0.25	26.00-26.00	N.A.	N.A.	26.39
NP15	29.50	0.25	29.50-29.50	N.A.	N.A.	29.40
SP15	28.50	0.25	28.50-28.50	N.A.	N.A.	28.73
Off-Peak						
COB	22.27	-0.73	21.75-22.75	13	325	23.79
Mid-C	21.52	-0.88	21.00-22.75	117	2,950	23.83
Palo Verde	19.49	-1.31	19.00-19.75	35	1,100	20.93
Mead	20.66	-1.34	20.25-21.00	15	500	21.92
Mona	17.00	-1.50	17.00-17.00	N.A.	N.A.	19.27
Four Corners	19.00	-1.50	19.00-19.00	N.A.	N.A.	20.28
NP15	22.00	-1.50	22.00-22.00	N.A.	N.A.	23.42
SP15	21.00	-1.25	21.00-21.00	N.A.	N.A.	22.45

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month (off-peak)	01/24	20.50-21.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Alamitos-3/AES	332	g	Calif.	PMO	Unk	01/09/12
Caribou-4-5/PG&E	122	h	Calif.	PMO	Unk	01/17/12
Colusa/PG&E	668	g	Calif.	PMO	Unk	01/26/12
Contra Costa-6/GenOn	337	g	Calif.	PMO	Unk	01/22/12
Coolwater-4/GenOn	246	g	Calif.	PMO	Unk	11/27/11
Eastwood-7/SCE	200	h	Calif.	PMO/MO	Unk	09/12/11
Encina-2/Cabrillo	104	g	Calif.	PMO	Unk	01/07/12
Encina-3/Cabrillo	110	g	Calif.	PMO	Unk	01/22/12
Helms-1/PG&E	407	h	Calif.	MO	Unk	11/19/11
Helms-2/PG&E	407	h	Calif.	PMO	Unk	09/22/11
Helms-3/PG&E	404	h	Calif.	PMO/MO	Unk	11/12/11
Inland Empire-1/IEEC	376	g	Calif.	MO	Unk	01/27/12
Intermountain-1/IPA	900	g	Utah	MO	Unk	01/06/12
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/12
Luz Solar 3-7/Various	175	s	Calif.	PMO	Unk	01/04/12
Luz Solar 8-9/Various	184	s	Calif.	PMO	Unk	01/04/12
Mandalay-2/GenOn	215	g	Calif.	PMO	Unk	01/28/12
Moss Landing-6/Dynegy	754	g	Calif.	PMO	Unk	01/25/12
Ormond Beach-1/GenOn	741	g	Calif.	PMO	Unk	01/23/12
Palomar/SDG&E	565	g	Calif.	PMO	Unk	01/12/12
Pine Flat Hydro/PG&E	210	h	Calif.	PMO	Unk	12/07/11
Pittsburg-5/GenOn	312	g	Calif.	PMO	Unk	01/23/12
Pittsburg-7/GenOn	682	g	Calif.	PMO	Unk	01/23/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12

WEST POWER MARKETS

Dailies move lower; terms also down

Western day-ahead prices for Wednesday delivery fell off Tuesday as spot gas sank, while forwards in the region were mostly lower as the NYMEX April natural gas futures contract Tuesday settled 8.4 cents lower at \$2.519/MMBtu.

In the Pacific Northwest, Mid-Columbia next-day on-peak power shed \$3 to trade around \$25.25/MWh on IntercontinentalExchange. Mid-C off-peak tumbled \$4.20 trading around \$21.50/MWh. The Bonneville Power Administration's wind generation was near 15 MW at 1:30 p.m. EST Tuesday, but was forecast rising to 3,000 MW Wednesday. Hydropower was at 10,230 MW. OPAL next-day gas lost 13 cents to \$2.405/MMBtu. High temperatures in Portland, Oregon were forecast in the upper mid-40s Wednesday with lows in the mid-30s and a chance of snow.

In the desert Southwest, Palo Verde on-peak next-day power eased off 50 cents to trade at \$27/MWh on ICE. Off-peak prices were down about \$2.15 at \$18.50/MWh. High temperatures in Phoenix, Arizona were forecast in the low 70s Wednesday, higher than Tuesday's expected high, with lows in the mid-40s.

In California, SP15 next-day on-peak financial swaps shed \$1.50 to trade at \$28.50/MWh on ICE. SP15 off-peak was \$2.25 lower at \$19.50/MWh. NP15 on-peak swaps were about \$2 lower with bids at \$28.15 and offers at \$28.65/MWh. NP15 off-peak was bid at \$20.05 and offered at \$20.75/MWh, \$2 below Monday prices. PG&E Citygates spot gas lost 11 cents to trade around \$2.77/MMBtu on ICE. Wednesday high temperatures throughout California were forecast from the mid-50s in Sacramento to the mid-60s in Burbank with rain expected. Lows were forecast in the 40s. The Cal-ISO's wind generation was about 1,825 MW at 1:30 p.m. EST. The ISO projected its load to peak at 30,340 MW Tuesday, slipping to 29,795 MW Wednesday.

Western term power markets were mostly lower Tuesday. In California, SP15 on-peak March financial swaps were unchanged with bids at \$26.50 and offers at \$26.85/MWh on ICE around 2:30 p.m. EST. SP15 April was down 25 cents to about \$25.75/MWh. SP15 third quarter lost 40 cents going to about \$33.60/MWh. NP15 March slipped 25 cents to about \$25.50/MWh. In the Northwest, Mid-Columbia on-peak March was up 25 cents to about \$22.50/MWh and April was unchanged around \$19.50/MWh. Mid-C Q2 was down 15 cents to about \$17/MWh and Q3 was off 45 cents to about \$27.40/MWh. In the Southwest, Palo Verde March was up 50 cents to about \$25.25/MWh and April was down about \$24.50/MWh. Palo Verde Q3 peeled back 60 cents to about \$32.90/MWh.

Day-ahead markets for delivery Feb 29(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	26.50	-2.41	26.50-26.50	N.A.	N.A.	26.34
Mid-C	25.11	-3.20	24.00-25.75	174	4,700	24.50
Palo Verde	26.56	-0.93	25.50-27.50	12	350	26.16
Mead	28.50	-0.57	28.50-28.50	N.A.	N.A.	28.04
Mona	26.50	-0.50	26.50-26.50	N.A.	N.A.	25.90
Four Corners	28.50	-0.50	28.50-28.50	N.A.	N.A.	26.21
NP15	28.50	-1.75	28.50-28.50	N.A.	N.A.	27.52
SP15	28.50	-1.50	28.50-28.50	N.A.	N.A.	29.05
Off-Peak						
COB	22.00	-3.08	20.00-23.00	5	150	22.14
Mid-C	21.91	-3.77	20.25-23.00	104	2,700	22.18
Palo Verde	18.26	-2.41	18.00-19.00	19	550	19.85
Mead	19.75	-2.25	19.75-19.75	N.A.	N.A.	21.52
Mona	18.50	-1.50	18.50-18.50	N.A.	N.A.	19.59
Four Corners	19.50	-1.00	19.50-19.50	N.A.	N.A.	19.97
NP15	20.50	-1.75	20.50-20.50	N.A.	N.A.	21.53
SP15	19.50	-2.25	19.50-19.50	N.A.	N.A.	21.53

Near-term markets (\$/MWh)

Contract	Tranacted	Deal
Mid-C		
Bal-month	02/22	24.25-25.25
Bal-month (off-peak)	02/22	22.00-23.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Alamitos-4/AES	335	g	Calif.	PMO	Unk	02/27/12
Alamitos-6/AES	495	g	Calif.	PMO	Unk	02/24/12
Delta Energy/Calpine	880	g	Calif.	PMO	Unk	02/27/12
Eastwood-7/SCE	200	h	Calif.	PMO/MO	Unk	09/12/11
Etiwanda-3/GenOn	320	g	Calif.	PMO	Unk	02/01/12
Etiwanda-4/GenOn	320	g	Calif.	PMO	Unk	02/24/12
Helms-1/PG&E	407	h	Calif.	MO	Unk	11/19/11
Helms-3/PG&E	404	h	Calif.	PMO/MO	Unk	11/12/11
Intermountain-1/IPA	900	g	Utah	MO		4108601/06/12
La Rosita/Intergen	322	g	Mex.	PMO/MO	Unk	02/27/12
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/12
Mandalay-2/GenOn	215	g	Calif.	PMO	Unk	01/28/12
Morro Bay-3/Dynegy	325	g	Calif.	PMO	Unk	02/27/12
Moss Landing-6/Dynegy	754	g	Calif.	PMO	Unk	01/25/12
Ormond Beach-2/GenOn	775	g	Calif.	PMO	Unk	02/24/12
Palomar/SDG&E	565	g	Calif.	PMO	Unk	01/12/12
Pittsburg-5/GenOn	312	g	Calif.	PMO	Unk	01/23/12
Pittsburg-6/GenOn	317	g	Calif.	PMO	Unk	02/06/12
Pittsburg-7/GenOn	682	g	Calif.	PMO	Unk	01/23/12
Redondo-7/AES	506	g	Calif.	PMO	Unk	02/01/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Starwood/Midway	119	g	Calif.	MO	Unk	02/25/12

WEST POWER MARKETS

Dailies and terms both post losses

Western day-ahead prices for Friday and Saturday delivery were mostly lower Thursday, with Northwest off-peak prices dipping below \$0/MWh with more rain in the forecast. Terms dropped back as NYMEX May natural gas futures settled 13.3 cents lower than Wednesday's settlement at \$2.149/MMBtu.

In the Pacific Northwest, Mid-C next-day on-peak power plunged \$5.45 to trade around \$10/MWh on IntercontinentalExchange. Mid-C off-peak lost about 40 cents trading between negative \$0.50 and \$0.20/MWh. The Bonneville Power Administration's wind generation was near 1,699 MW at 2 p.m. EDT, and hydropower was around 13,675 MW. OPAL next-day gas gained 3 cents trading around \$1.87/MMBtu. Mid-C on-peak balance-of-the-month swaps had bids at \$14.75 and offers at \$16/MWh on ICE. Next week was bid at \$11.50 and offered at \$14.50/MWh.

Temperatures in Portland, Oregon were forecast slightly cooler with highs in the mid-50s Friday and Saturday with lows in the low 40s and rain.

In the desert Southwest, Palo Verde on-peak next-day power inched up 15 cents trading near \$20.75/MWh on ICE. Off-peak prices were 90 cents weaker near \$14.75/MWh. High temperatures in Phoenix were forecast climbing up to 90 degrees Friday and Saturday, with lows in the mid-60s.

In California, SP15 next-day on-peak financial swaps dropped \$1 trading at \$24.75/MWh on ICE. SP15 off-peak slipped 25 cents to \$16/MWh. NP15 on-peak swaps offloaded more than \$1 with bids at \$20.50 and offers at \$21.15/MWh. Pacific Gas & Electric city-gates spot gas lost 6 cents to around \$2.38/MMBtu on ICE. High temperatures in Southern California were forecast near 80 degrees Friday, slipping to 70 Saturday with lows in the 50s. Sacramento highs were expected near 70 Friday and 60 Saturday, with rain and lows down to 39 degrees. SP15 on-peak next week traded at \$25.25/MWh. Bal-month was offered at \$30/MWh without bids on ICE. The Cal-ISO's wind generation was about 1,395 MW at 2 p.m. EDT. The ISO projected its peak load falling into the weekend, from 28,536 MW Thursday, 27,030 MW Friday and 25,310 MW Saturday.

In the Northwest term markets, Mid-Columbia on-peak April fell 25 cents with bids at \$14.75 and offers at \$15/MWh on the ICE around 2:30 p.m. EDT. May fell 25 cents to about \$14.50/MWh, and the third quarter lost 60 cents to trade around \$24.65/MWh. In California, SP15 on-peak April financial terms fell 50 cents with bids at \$23.85 and offers at \$24.10/MWh. May swaps shed 75 cents to about \$24.50/MWh, and Q3 sagged 80 cents to about \$33.35/MWh. NP15 April slid 75 cents to about \$21.75/MWh. In the Southwest, Palo Verde on-peak April fell 50 cents to about \$21.25/MWh, May tumbled \$1 to about \$23/MWh, and Q3 inched down 10 cents to about \$32/MWh.

Day-ahead markets for delivery Mar 30-31(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	15.50	-4.09	15.50-15.50	N.A.	N.A.	21.35
Mid-C	11.95	-3.50	7.00-13.25	217	5,725	18.56
Palo Verde	20.25	-0.35	20.00-20.50	12	425	22.58
Mead	21.25	0.30	21.25-21.25	N.A.	N.A.	23.71
Mona	17.75	-0.25	17.75-17.75	N.A.	N.A.	21.16
Four Corners	20.75	-0.50	20.75-20.75	N.A.	N.A.	23.09
NP15	21.00	-1.00	21.00-21.00	N.A.	N.A.	23.72
SP15	24.75	-1.00	24.75-24.75	N.A.	N.A.	24.85
Off-Peak						
COB	3.32	-0.83	2.50-4.00	28	750	15.56
Mid-C	-0.08	-0.22	-0.50-0.25	225	6,625	13.30
Palo Verde	14.63	-1.01	14.25-15.25	17	600	17.58
Mead	14.43	-1.05	13.00-14.75	12	375	18.05
Mona	13.00	-0.50	13.00-13.00	N.A.	N.A.	16.77
Four Corners	13.66	-1.59	13.25-14.00	7	200	17.70
NP15	11.50	-2.00	11.50-11.50	N.A.	N.A.	18.15
SP15	16.00	-0.25	16.00-16.00	N.A.	N.A.	18.21

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month (off-peak)	03/23	3.50-4.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Alamitos-6/AES	495	g	Calif.	PMO	Unk	02/24/12
Coolwater-3/GenOn	245	g	Calif.	PMO	Unk	03/25/12
El Segundo-4/NRG	335	g	Calif.	MO	Unk	03/28/12
Etiwanda-4/GenOn	320	g	Calif.	PMO	Unk	02/24/12
Gilroy Cogeneration/Calpine	120	g	Calif.	PMO	Unk	03/25/12
Helms-1/PG&E	407	h	Calif.	MO	Unk	11/19/11
Helms-3/PG&E	404	h	Calif.	PMO/MO	Unk	11/12/11
Huntington-1/AES	225	g	Calif.	PMO	Unk	03/28/12
Intermountain-1/IPA	900	g	Utah	MO	4108601	06/12
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/12
Mandalay-2/GenOn	215	g	Calif.	PMO	Unk	01/28/12
Meldyn Merchant/Unk	494	g	Calif.	PMO	Unk	03/25/12
Moss Landing-7/Dynergy	755	g	Calif.	PMO	Unk	03/25/12
Palo Verde-3/APS	1346	n	Ariz.	PMO	Unk	03/16/12
Palomar/SDG&E	565	g	Calif.	PMO	Unk	01/12/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12

WEST POWER MARKETS

Dailies end mostly higher; terms advance

Western day-ahead power prices were mostly higher Friday with the for-Monday premium giving some lift to deals. Terms rose as the NYMEX June natural gas futures contract settled 6 cents higher at \$2.186/MMBtu.

In California, NP15 on-peak financial dailies for Monday delivery were about \$3 with deals in the mid-\$20s/MWh on IntercontinentalExchange. NP15 off-peak values were up about \$3 with prices around \$19.25/MWh. SP15 on-peak financial dailies jumped about \$4 into the upper \$20s/MWh on ICE. SP15 off-peak prices rose more than \$4 to the low \$20s/MWh. Real-time prices in California were mixed in the afternoon, with Southern California showing a premium at times. SP15 real-time prices were in the low \$60s/MWh around 2:35 p.m. EDT, compared with NP15 real-time prices around \$19/MWh. Generation in Southern California remains tight with its nuclear generating stations.

The California Independent System Operator forecast Friday's peak around 27,842 MW; 26,042 MW for Saturday; 27,569 MW for Sunday; and 29,144 MW for Monday. Cal-ISO reported wind generation below 200 MW around 2:25 p.m. EDT. PG&E citygates spot gas was around \$2.30/MMBtu in morning trading, down about 7 cents from previous day. In the Southwest, Palo Verde on-peak was nearly unchanged around \$19.50/MWh on the ICE. Palo Verde off-peak prices climbed about \$2.25 to around \$17/MWh. Opal spot gas was around \$1.92/MMBtu, down about 6 cents.

In the Northwest, Mid-Columbia on-peak dailies were down \$1 with prices averaging near \$8.50/MWh on the ICE. Mid-C off-peak was nearly flat averaging below \$0/MWh on the ICE. The Bonneville Power Administration showed wind generation in its region was around 2,800 MW and hydro generation was around 13,800 MW around 2:20 p.m. EDT. BPA is forecasting wind to remain strong throughout most of Friday and then begin to drop late Friday and fall to around 500 MW by around 8:00 a.m. PDT Saturday.

In the Northwest term markets, Mid-C on-peak May dropped \$1.75 with bids at \$12.90 and offers at \$13.25/MWh on ICE around 2:30 p.m. EDT. June lost \$1.25 to about \$15.25/MWh, and the third quarter edged down 15 cents to about \$25/MWh. In California, SP15 on-peak May financial terms rose 25 cents with bids at \$27.65 and offers at \$27.85/MWh. June swaps climbed 50 cents to about \$28/MWh, and Q3 rose 35 cents to about \$37.25/MWh. NP15 May rose 25 cents to about \$24.25/MWh. In the Southwest, Palo Verde on-peak May rose 25 cents to about \$23.25/MWh, June surged up \$2 to about \$27.25/MWh, and Q3 inched up 10 cents to about \$32.25/MWh.

Day-ahead markets for delivery Apr 30(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	11.32	-0.66	10.50-12.50	14	350	17.70
Mid-C	8.47	-0.97	6.75-11.50	177	4,800	15.06
Palo Verde	19.75	0.03	19.75-19.75	N.A.	N.A.	21.51
Mead	21.50	1.25	21.50-21.50	N.A.	N.A.	22.82
Mona	19.75	1.25	19.75-19.75	N.A.	N.A.	20.10
Four Corners	20.75	1.25	20.75-20.75	N.A.	N.A.	21.89
NP15	24.50	2.25	24.50-24.50	N.A.	N.A.	24.15
SP15	28.75	4.25	28.75-28.75	N.A.	N.A.	29.33
Off-Peak						
COB	2.50	-1.00	2.50-2.50	N.A.	N.A.	5.19
Mid-C	-0.07	-0.20	-1.75-2.00	165	4,375	2.10
Palo Verde	16.75	2.09	14.75-17.25	23	900	15.32
Mead	19.00	3.25	19.00-19.00	N.A.	N.A.	16.05
Mona	16.50	2.00	16.50-16.50	N.A.	N.A.	15.23
Four Corners	16.25	1.25	16.25-16.25	N.A.	N.A.	15.82
NP15	18.75	2.00	18.75-18.75	N.A.	N.A.	16.58
SP15	21.25	4.25	21.25-21.25	N.A.	N.A.	18.65

West off-peak includes all day Sunday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	04/25	12.00-13.00
Bal-month	04/24	13.50-14.50
Bal-month (off-peak)	04/25	0.25-1.25

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Belden Hydro/PG&E	119	h	Calif.	PMO	Unk	04/10/12
Coolwater-4/Genon	246	g	Calif.	MO	Unk	04/26/12
Crockett	240	g	Calif.	PMO	Unk	04/22/12
Diablo Canyon-1/PG&E	1197	n	Calif.	PMO	Unk	04/22/12
Diablo Canyon-2/PG&E	1118	n	Calif.	MO	Unk	04/25/12
El Segundo-3/NRG	335	g	Calif.	PMO	Unk	04/15/12
El Segundo-4/NRG	335	g	Calif.	PMO	Unk	04/15/12
Helms-1/PG&E	407	h	Calif.	MO	Unk	11/19/11
Helms-3/PG&E	404	h	Calif.	PMO/MO	Unk	11/12/11
Inland Empire-1/IEEC	376	g	Calif.	PMO	Unk	04/23/12
Inland Empire-2/IEEC	366	g	Calif.	PMO	Unk	04/01/12
Intermountain-1/IPA	900	g	Utah	MO	05/27/12	
01/06/12						
Los Esteros/Calpine	188	g	Mex.	PMO	Unk	01/02/12
Martinez Cogen	115	g	Calif.	PMO	Unk	04/02/12
Raesfeld/SVP	147	g	Calif.	PMO	Unk	04/08/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Sunrise-2/Edison	590	g	Calif.	PMO/MO	Unk	04/25/12

WEST POWER MARKETS

Dailies and terms both close higher

Western day-ahead on-peak prices for Thursday delivery traded higher Wednesday with soaring temperatures throughout much of the region. Terms also rose, even as the NYMEX July natural gas futures contract settled 6.7 cents lower at \$2.418/MMBtu.

In the Pacific Northwest, Mid-Columbia next-day on-peak power inched up 30 cents to \$14.25/MWh on IntercontinentalExchange. Mid-C off-peak power gained about \$2.25 trading around \$2.25/MWh. The Bonneville Power Administration's wind generation was near 1,570 MW at 2 p.m. EDT, and hydropower was around 12,850 MW. Wind was forecast to have a moderate peak Thursday, around 2,500 MW. OPAL next-day gas fell 5 cents for the second consecutive day, trading around \$2.25/MMBtu. High temperatures in Portland, Oregon, were forecast staying in the mid-70s Thursday, with lows near 60 and rain showers.

In the desert Southwest, Palo Verde on-peak next-day power moved up \$1.50 to \$29.50/MWh on ICE. Off-peak prices were 25 cents higher near \$17.25/MWh. High temperatures in Phoenix, Arizona were forecast near 108 degrees Thursday and rising to 113 on Friday, nearly 10 degrees above normal. Lows Thursday were forecast around 72 degrees.

In California, SP15 next-day on-peak financial swaps gained \$2.25 trading around \$35.75/MWh on ICE. SP15 off-peak swaps were 75 cents stronger to \$19.25/MWh. NP15 on-peak was about \$2.50 higher trading at \$31/MWh. Pacific Gas and Electric city-gates spot gas fell 12 cents to around \$2.695/MMBtu on ICE, while SoCal city-gates shed 9 cents to \$2.615/MMBtu. Highs in California Thursday were forecast from the upper 80s in Burbank to the mid-90s in Sacramento, with lows in the upper 50s. Sacramento was expecting to hit 99 degrees Friday. The Cal-ISO's wind generation was about 1,210 MW at 2 p.m. EDT. The ISO projected its peak load Wednesday around 32,340 MW, rising nearly 4,000 MW Thursday to about 36,075 MW. SP15 on-peak next week swaps were bid at \$32 and offered at \$34.50/MWh on ICE.

In the Northwest, Mid-C on-peak June gained 50 cents with bids at \$15.30 and offers at \$15.50/MWh on ICE around 2:30 p.m. EDT. July stayed at about \$23.75/MWh, and the third quarter was unchanged at about \$26.10/MWh. In California, SP15 on-peak June financial terms rose 25 cents with bids at \$31.50 and offers at \$31.75/MWh. July swaps rose 25 cents to about \$39.75/MWh, and Q3 edged up 15 cents to about \$38.25/MWh. NP15 June rose 25 cents to about \$26.50/MWh. In the Southwest, Palo Verde on-peak June rose 25 cents to about \$28/MWh, July fell 25 cents to about \$34.25/MWh, and Q3 inched down 10 cents to about \$32.90/MWh.

Day-ahead markets for delivery May 31(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	21.92	1.42	20.00-24.20	13	500	17.17
Mid-C	14.03	0.10	12.25-15.25	114	3,275	10.70
Palo Verde	29.73	1.73	29.25-30.00	14	375	26.75
Mead	30.00	0.75	29.50-30.50	6	175	27.81
Mona	28.50	1.50	28.50-28.50	N.A.	N.A.	26.40
Four Corners	29.00	2.50	29.00-29.00	N.A.	N.A.	26.40
NP15	31.50	3.00	31.50-31.50	N.A.	N.A.	26.47
SP15	35.75	2.25	35.75-35.75	N.A.	N.A.	31.36
Off-Peak						
COB	11.11	2.52	10.00-11.75	12	450	5.75
Mid-C	2.10	1.77	0.25-3.75	144	4,300	0.00
Palo Verde	17.00	0.00	17.00-17.00	N.A.	N.A.	16.89
Mead	18.25	0.45	18.25-18.25	N.A.	N.A.	17.71
Mona	17.50	1.00	17.50-17.50	N.A.	N.A.	16.94
Four Corners	16.75	0.75	16.75-16.75	N.A.	N.A.	16.21
NP15	19.75	1.50	19.75-19.75	N.A.	N.A.	17.02
SP15	19.25	0.75	19.25-19.25	N.A.	N.A.	18.40

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	05/25	14.75-15.75

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Ace Cogen	118	g	Calif.	PMO	Unk	05/13/12
Delta/Calpine	880	g	Calif.	PMO	Unk	05/30/12
Diablo Canyon-1/PG&E	1197	n	Calif.	PMO	Unk	04/22/12
Encina-5/Cabrillo	330	g	Calif.	PMO	Unk	05/07/12
Helms-1/PG&E	407	h	Calif.	MO	Unk	11/19/11
Inland Empire-2/IEEC	366	g	Calif.	PMO	Unk	04/01/12
Intermountain-1/IPA	900	g	Utah	MO	Unk	01/06/12
La Paloma-2/LPGC	260	g	Calif.	PMO	Unk	05/03/12
Los Esteros/Calpine	188	g	Mex.	PMO	Unk	01/02/12
Mariposa/Diamond	196	g	Calif.	PMO	Unk	05/23/12
Martinez Cogen	115	g	Calif.	PMO	Unk	04/02/12
Pastoria/Calpine	751	g	Calif.	PMO	Unk	04/29/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12

WEST POWER MARKETS

Dailies move little; terms wind up mixed

Western day-ahead on-peak dailies for Friday and Saturday delivery made small moves Thursday on the IntercontinentalExchange as some spot gas prices slipped. Terms finished mixed as the NYMEX August natural gas futures contract fell 7.6 cents Thursday to settle at \$2.722/MMBtu.

In the Pacific Northwest, Mid-Columbia next-day on-peak power traded around \$14/MWh on ICE, down roughly 85 cents. Mid-C off-peak power rose about 20 cents, trading around \$0/MWh. The Bonneville Power Administration's wind generation was 7 MW at 2 p.m. EDT, and was expected to peak near 2,000 MW late Friday. Hydropower was around 13,965 MW Thursday afternoon. OPAL next-day gas fell 16 cents to around \$2.645/MMBtu. High temperatures in Portland, Oregon, were forecast steady in the 70s into the weekend, with lows near 60 and rain showers Saturday.

Mid-C on-peak next week swaps were bid at \$9.50 and offered at \$16/MWh on ICE.

In the desert Southwest, Palo Verde on-peak next-day power rose 25 cents to \$32/MWh on ICE. Off-peak prices were 75 cents higher near \$16/MWh. High temperatures in Phoenix were forecast near 111 degrees Friday and 113 degrees Saturday, with lows in the 80s.

In California, SP15 next-day on-peak financial swaps were down \$3.25 trading around \$30.50/MWh on ICE. SP15 off-peak swaps traded steady around \$17.50/MWh. NP15 on-peak fell about \$3 with bids at \$27 and offers at \$27.75/MWh. High temperatures in Southern California were forecast staying in the 80s into the weekend, while Northern California highs were forecast in the low 90s. SP15 on-peak next week swaps were bid at \$32 and offered at \$35.75/MWh on ICE. Pacific Gas and Electric city-gates spot gas traded near \$2.99/MMBtu, down 7 cents, while SoCal city-gates gas was unchanged at \$2.96/MMBtu. The Cal-ISO's wind generation was about 900 MW at 2 p.m. EDT. The ISO projected its peak load falling over the next few days, from 34,965 MW Thursday to 33,650 MW Friday and 30,875 MW Saturday.

In the Northwest term markets, Mid-C on-peak July gained 75 cents with bids at \$18.35 and offers at \$18.75/MWh on ICE around 2:30 p.m. EDT. August rose 25 cents to about \$24.50/MWh, and September rose 25 cents to about \$25.75/MWh. In California, SP15 on-peak July financial terms fell 25 cents with bids at \$38.50 and offers at \$38.90/MWh. August swaps shed 50 cents to about \$40.50/MWh, and September fell 50 cents to about \$36.75/MWh. NP15 July was unchanged at about \$33.50/MWh. In the Southwest, Palo Verde on-peak July rose 25 cents to about \$34.75/MWh, August rose 25 cents to about \$35/MWh, and September stayed at about \$31.75/MWh.

Day-ahead markets for delivery Jun 29-30(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/MWh
On-Peak						
COB	19.82	-1.77	18.75-20.75	34	1,225	16.19
Mid-C	13.55	-1.30	12.00-16.00	216	5,750	9.04
Palo Verde	32.98	1.24	30.00-35.50	19	500	29.23
Mead	34.50	1.25	33.00-37.00	6	225	30.27
Mona	34.00	0.25	34.00-34.00	N.A.	N.A.	28.60
Four Corners	39.25	0.89	39.25-39.25	N.A.	N.A.	29.67
NP15	27.00	-3.25	27.00-27.00	N.A.	N.A.	28.72
SP15	30.50	-3.25	30.50-30.50	N.A.	N.A.	31.43
Off-Peak						
COB	8.78	-0.10	6.25-11.00	29	900	6.27
Mid-C	-0.05	0.13	-0.25-0.35	183	4,875	-1.28
Palo Verde	16.00	0.75	16.00-16.00	N.A.	N.A.	17.27
Mead	16.91	0.16	15.75-17.50	6	225	18.23
Mona	16.00	0.50	16.00-16.00	N.A.	N.A.	16.73
Four Corners	16.75	0.25	16.75-16.75	N.A.	N.A.	16.77
NP15	17.75	1.75	17.75-17.75	N.A.	N.A.	19.06
SP15	18.00	0.50	18.00-18.00	N.A.	N.A.	19.11

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	06/25	11.00-12.00
Bal-month (off-peak)	06/26	-1.50—
0.50		
Next-week (off-peak)	06/28	0.00-1.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Helms-1/PG&E	407	h	Calif.	MO	Unk	11/19/11
La Paloma-2/LPGC	260	g	Calif.	PMO	Unk	05/03/12
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/12
Mandalay-1/GenOn	215	g	Calif.	MO	Unk	06/17/12
Mariposa/Diamond	196	g	Calif.	PMO	Unk	05/23/12
Martinez Cogen	115	g	Calif.	PMO	Unk	04/02/12
Mountalnview-3/Edison	525	g	Calif.	PMO	Unk	06/27/12
Ormond Beach-2/GenOn	775	g	Calif.	MO	Unk	06/21/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Tracy/GWF	328	g	Calif.	MO	Unk	06/18/12

WEST POWER MARKETS

Dailies drop back, but terms move up

Western day-ahead on-peak prices for Tuesday delivery fell Monday, despite higher spot natural gas prices. Terms advanced, and the NYMEX September natural gas futures contract settled 19.9 cents higher at \$3.214/MMBtu.

In the Pacific Northwest, Mid-Columbia on-peak prices lost about \$1.15 to trade near \$25/MWh on IntercontinentalExchange. Mid-C off-peak prices rose \$2 from weekend packages, trading around \$1.50/MWh. The Bonneville Power Administration showed wind generation around 3,165 MW at 2 p.m. EDT, and was forecast to peak near 2,550 MW late on Tuesday. Hydro generation was at 11,875 MW. OPAL spot gas surged 12 cents to trade at about \$2.925/MMBtu on ICE. High temperatures in Portland, Oregon, were forecast in the upper 70s Tuesday, up a couple degrees, with lows around 54.

Mid-C on-peak balance-of-the-week swaps were bid at \$23 and offered at \$28/MWh. Next week swaps were bid at \$24.25 and offered at \$29/MWh.

In the desert Southwest Palo Verde on-peak prices were down \$2.85 to around \$31.25/MWh on ICE. Palo Verde off-peak prices tumbled about \$7.45 to \$18/MWh. Tuesday high temperatures in Phoenix were forecast at 100 degrees, with lows around 81 and thunder storms.

In California SP15 on-peak financial swaps were down \$4.75 to trade around \$35.75/MWh on ICE. SP15 off-peak was down about \$7 with bids at \$20.50 and offers at \$21/MWh. NP15 on-peak dipped \$3 to \$19/MWh. High temperatures in Sacramento, California, were forecast near 99 degrees Tuesday, with lows near 57. Burbank was expecting a high of 90 with lows in the mid-60s. The California Independent System Operator forecast Monday peak demand at 38,870 MW, inching lower Tuesday to 38,785 MW. Cal-ISO wind generation was around 115 MW at 2 p.m. EDT. SP15 on-peak bal-week swaps traded at around \$36.50/MWh. Next week swaps traded at \$38.50/MWh. Pacific Gas and Electric spot gas prices gained 13 cents trading at about \$3.205/MMBtu on ICE. SoCal gas rose 6 cents to \$3.145/MMBtu.

In the Northwest term markets, Mid-C on-peak August rose 75 cents with bids at \$27.25 and offers at \$27.75/MWh on ICE around 2:30 p.m. EDT. September rose \$1 to about \$27.25/MWh, and the fourth quarter climbed \$1.30 to about \$31.65/MWh. In California, SP15 on-peak August financial terms rose 50 cents with bids at \$39.15 and offers at \$39.50/MWh. September swaps surged up \$1.50 to about \$37.75/MWh, and Q4 gained \$1.30 to about \$35.90/MWh. NP15 August rose 75 cents to about \$34/MWh. In the Southwest, Palo Verde on-peak August rose \$1 to about \$34.50/MWh, September was up \$1.25 to about \$32.75/MWh, and Q4 jumped \$1.65 to about \$32.25/MWh.

Day-ahead markets for delivery Jul 31(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	29.14	-3.36	28.75-30.25	7	175	29.07
Mid-C	24.62	-1.56	23.50-25.50	125	3,200	22.29
Palo Verde	31.25	-2.86	31.25-31.25	N.A.	N.A.	33.16
Mead	32.25	-3.13	32.25-32.25	N.A.	N.A.	34.38
Mona	34.00	-4.00	34.00-34.00	N.A.	N.A.	35.92
Four Corners	39.00	-4.50	39.00-39.00	N.A.	N.A.	36.85
NP15	32.25	-2.25	32.25-32.25	N.A.	N.A.	31.68
SP15	35.50	-5.00	35.50-35.50	N.A.	N.A.	36.46
Off-Peak						
COB	8.08	0.05	7.75-10.00	60	1,725	9.95
Mid-C	1.43	1.92	0.00-3.25	201	5,450	1.37
Palo Verde	18.12	-7.34	18.00-18.25	20	625	19.78
Mead	19.04	-7.55	19.00-19.25	7	350	20.82
Mona	18.00	-4.00	18.00-18.00	N.A.	N.A.	19.14
Four Corners	18.00	-7.00	18.00-18.00	N.A.	N.A.	19.37
NP15	19.25	-2.75	19.25-19.25	N.A.	N.A.	20.24
SP15	21.00	-7.00	21.00-21.00	N.A.	N.A.	22.40

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	07/26	26.50-27.75
Bal-month (off-peak)	07/27	4.75-5.75

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Belden/P&G&E	119	h	Calif.	MO	Unk	07/15/12
Helms-1/P&G&E	407	h	Calif.	MO	Unk	11/19/11
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/12
Martinez Cogen	115	g	Calif.	PMO	Unk	04/02/12
San Onofre-2/SCE	1,124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1,126	n	Calif.	MO	Unk	01/31/12
Tracy/GWF	328	g	Calif.	MO	Unk	06/18/12

WEST POWER MARKETS

Dailies end mostly lower; terms rise

Western day-ahead on-peak power for Thursday and Friday delivery ahead of Labor Day was mostly down in trading on the IntercontinentalExchange Wednesday, with lower loads projected. Terms rose, and the NYMEX September natural gas futures contract rolled off the board at \$2.634/MMBtu, up 2 cents from Tuesday's close. The October contract, which takes the prompt-month position on Thursday, settled 5.2 cents higher at \$2.685/MMBtu.

In the Pacific Northwest, Mid-Columbia next-day on-peak power bucked the trend, rising \$1.65 to about \$25.50/MWh on the ICE. Mid-C off-peak power slipped 65 cents, trading around \$16.75/MWh. High temperatures in Portland, Oregon, were forecast in the mid-60s Thursday but rising to the upper 70s Friday. OPAL next-day gas was down 3 cents to around \$2.595/MMBtu. The Bonneville Power Administration's wind generation was about 695 MW at 2 p.m. EDT, and hydropower was near 9,870 MW.

Mid-C on-peak balance-of-the-week swaps were bid at \$18 and offered at \$23/MWh. Next week swaps had bids at \$28.50 and offers at \$32/MWh.

In the desert Southwest, Palo Verde on-peak next-day power fell \$4, trading around \$35.50/MWh on ICE. Palo Verde off-peak prices were down 85 cents near \$19.25/MWh. High temperatures in Phoenix were forecast around 109 degrees Thursday but falling to 102 on Friday, with lows in the mid-80s.

In California, SP15 next-day on-peak financial swaps shed \$3 to trade around \$42.75/MWh on ICE. SP15 off-peak was down 25 cents at \$22/MWh. NP15 had bids at \$35.50 and offers at \$37.50/MWh, down roughly 75 cents. High temperatures in Northern and Southern California were forecast in the mid-80s to mid-90s through Friday, with lows in the mid-50s up to 70 degrees. The California Independent System Operator forecast peak demand Wednesday at 42,370 MW, Thursday at 40,125 MW and Friday at 36,585 MW. Wind power was 150 MW at 2 p.m. EDT. SP15 on-peak bal-week swaps were bid at \$32 and offered at \$37.25/MWh on ICE. Pacific Gas and Electric city-gates spot gas dropped 1 cent, trading at \$2.885/MMBtu. SoCal city-gates gas inched up 1 cent to \$2.91/MMBtu.

In the Northwest term markets, Mid-C on-peak September surged up \$1 with bids at \$25.85 and offers at \$26.25/MWh on ICE around 2:30 p.m. EDT. October rose 25 cents to about \$23.75/MWh, and the fourth quarter rose 25 cents to about \$28.10/MWh. In California, SP15 on-peak September financial terms jumped \$2 with bids at \$37.60 and offers at \$38/MWh. October gained \$1.25 to about \$35/MWh, and Q4 rose 75 cents to about \$33.40/MWh. NP15 September climbed \$1.50 to about \$33/MWh. In the Southwest, Palo Verde on-peak September rose 25 cents to about \$32.25/MWh, October was up 50 cents to about \$29.25/MWh, and Q4 rose 50 cents to about \$28.90/MWh.

Day-ahead markets for delivery Aug 30-31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	30.31	-1.94	29.00-32.00	20	500	38.11
Mid-C	25.03	1.17	24.25-28.00	81	2,025	31.06
Palo Verde	35.00	-4.54	34.50-35.25	9	450	42.92
Mead	36.50	-3.00	36.50-36.50	N.A.	N.A.	44.92
Mona	34.00	-7.00	34.00-34.00	N.A.	N.A.	44.48
Four Corners	36.25	-5.75	36.25-36.25	N.A.	N.A.	45.82
NP15	36.00	-1.25	36.00-36.00	N.A.	N.A.	41.00
SP15	42.00	-3.75	42.00-42.00	N.A.	N.A.	44.32
Off-Peak						
COB	19.45	-0.30	18.25-20.25	23	600	19.89
Mid-C	17.34	-0.04	15.25-18.25	154	4,700	16.77
Palo Verde	19.26	-0.84	19.00-19.50	24	1,025	21.51
Mead	20.64	-1.36	20.45-21.00	7	300	23.37
Mona	18.00	-2.00	18.00-18.00	N.A.	N.A.	21.22
Four Corners	20.25	0.00	20.25-20.25	N.A.	N.A.	22.12
NP15	21.25	-0.25	21.25-21.25	N.A.	N.A.	23.00
SP15	22.00	-0.25	22.00-22.00	N.A.	N.A.	24.13

Near-term markets (\$/MWh)

Contract	Transected	Deal
Mid-C		
Bal-month	08/28	25.00-26.00
Bal-month	08/27	25.00-26.00
Bal-month (off-peak)	08/23	18.75-19.75
SP15		
Bal-month	08/23	37.75-40.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Belden/PG&E	119	h	Calif.	MO	Unk	07/15/12
Colgate-2/PCWA	175	h	Calif.	PMO	Unk	08/26/12
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/12
Martinez Cogen	115	g	Calif.	PMO	Unk	04/02/12
Pittsburg-6/GenOn	317	g	Calif.	MO	Unk	08/28/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Tracy/GWF	328	g	Calif.	MO	Unk	08/26/12

WEST POWER MARKETS

Dailies finish flat; terms surge

Western day-ahead on-peak power for Saturday delivery ahead of the new month showed little movement Thursday on the IntercontinentalExchange, while off-peak power for Saturday-Sunday delivery got a boost. Terms jumped, and the November NYMEX natural gas futures contract settled 8.2 cents higher at \$3.297/MMBtu.

In the Pacific Northwest, Mid-Columbia next-day on-peak power shed about 35 cents to around \$25.25/MWh on IntercontinentalExchange. Mid-C off-peak moved up about 85 cents, trading above on-peak near \$26/MWh. A Western power trader said the altered Saturday-Sunday delivery schedule and low wind generation projections for Sunday pushed all-day-Sunday off-peak prices higher. High temperatures in Portland were forecast in the mid-60s to low 70s through the weekend, with lows in the mid-50s. OPAL next-day gas was 8 cents higher to around \$2.942/MMBtu.

The Bonneville Power Administration's wind generation was about 7 MW at 2 p.m. EDT, and hydropower was near 7,320 MW.

In the desert Southwest, Palo Verde on-peak next-day power gained 45 cents, trading around \$32.25/MWh on ICE. Palo Verde off-peak traded at about \$26.75/MWh, up roughly \$8.50. High temperatures in Phoenix were forecast in the low 100s over the weekend, a few degrees above normal, with lows in the 70s. Palo Verde on-peak balance-of-the-week swaps were bid at \$34 and offered at \$38/MWh on ICE.

In California, SP15 next-day on-peak financial swaps gained 50 cents to trade around \$45/MWh on ICE. SP15 off-peak soared \$13.50 to \$35.50/MWh. NP15 on-peak was about \$1.50 higher with bids at \$38.50 and offers at \$41/MWh on ICE. California high temperatures were forecast in the mid- to upper 90s through the weekend, about 10 to 15 degrees above normal. Lows were expected in the 60s and 70s. The California Independent System Operator forecast peak demand Saturday at 34,105 MW, slipping Sunday to 34,040 MW. Wind generation was 100 MW at 2 p.m. EDT. SP15 on-peak bal-month swaps were bid at \$39.50/MWh without offers on ICE. Bal-week swaps traded at \$51.50/MWh. Pacific Gas and Electric city-gates spot gas was trading up 13 cents near \$3.614/MMBtu, and SoCal city-gates gained 4 cents to about \$3.36/MMBtu on ICE.

In the Northwest, Mid-Columbia on-peak October advanced 85 cents with bids at \$28 and offers at \$28.45/MWh on ICE around 2:30 p.m. EDT. The fourth quarter rose 55 cents to about \$32.15/MWh, and the first quarter of 2013 was virtually unchanged at about \$33.15/MWh. In California, SP15 on-peak October financial terms surged \$2 with bids at

Day-ahead markets for delivery Sep 29(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	29.93	-1.54	29.25-30.50	17	425	30.84
Mid-C	25.32	-0.30	24.75-25.75	146	4,250	25.69
Palo Verde	31.44	-0.36	31.25-31.75	8	400	30.49
Mead	32.51	-0.57	32.25-32.80	7	225	31.60
Mona	29.00	-2.00	29.00-29.00	N.A.	N.A.	30.13
Four Corners	32.25	0.25	32.25-32.25	N.A.	N.A.	31.17
NP15	39.00	0.50	39.00-39.00	N.A.	N.A.	35.82
SP15	45.00	0.50	45.00-45.00	N.A.	N.A.	41.99

Off-Peak						
COB	28.75	2.35	28.00-30.00	16	400	25.19
Mid-C	25.67	1.04	24.50-26.75	94	2,575	23.20
Palo Verde	27.00	6.65	27.00-27.00	N.A.	N.A.	22.87
Mead	26.50	5.25	26.50-26.50	N.A.	N.A.	23.63
Mona	26.00	6.75	26.00-26.00	N.A.	N.A.	21.35
Four Corners	25.50	5.50	25.50-25.50	N.A.	N.A.	22.63
NP15	31.00	8.50	31.00-31.00	N.A.	N.A.	24.65
SP15	35.50	13.50	35.50-35.50	N.A.	N.A.	26.18

West off-peak includes all day Sunday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
SP15		
Bal-week	09/27	50.75-51.75

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Colgate-2/PCWA	175	h	Calif.	PMO	Unk	08/26/12
CVSR/NRG	210	s	Calif.	PMO/MO	Unk	09/25/12
Elk Hills/EHP	551	g	Calif.	MO	Unk	09/26/12
Helms-2/PG&E	407	h	Calif.	PMO	Unk	09/16/12
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/12
Mandalay-1/GenOn	215	g	Calif.	MO	Unk	09/16/12
Martinez Cogen	115	g	Calif.	PMO	Unk	04/02/12
Palomar/SDG&E	575	g	Calif.	PMO	Unk	09/23/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Vincent	316	g	Calif.	PMO	Unk	09/24/12
Windstar/WWE	120	w	Calif.	PMO	Unk	09/24/12

\$41.75 and offers at \$42/MWh. Q4 climbed 90 cents to about \$38.90/MWh, and Q1 rose 50 cents to about \$41.90/MWh. NP15 October added \$2.25 going to about \$36.25/MWh. In the Southwest, Palo Verde on-peak October moved up \$1 to about \$31.50/MWh, Q4 was up 60 cents to about \$31.35/MWh, and Q1 rose 40 cents to about \$32.65/MWh.

WEST POWER MARKETS

Dailies and terms wind up mixed

Western day-ahead power prices were mixed with higher spot gas prices across the region. Terms wound up mixed, and the NYMEX December natural gas futures contract dropped 11.2 cents to settle at \$3.691/MMBtu.

In California, NP15 on-peak financial dailies for Wednesday delivery were in the low \$40s/MWh on IntercontinentalExchange, up about 75 cents. NP15 off-peak was up about 50 cents in the upper \$20s/MWh. SP15 on-peak financial dailies were in the low \$40s/MWh up about \$2, while off-peak prices were up about 75 cents in the upper \$20s/MWh. Spot natural gas for Pacific Gas and Electric city-gates was up about 2 cents to around \$3.94/MMBtu and SoCal Gas city-gate was at about \$3.78/MMBtu, up about 23 cents.

The California Independent System Operator forecast peak demand for Tuesday around 31,381 MW and 30,678 MW for Wednesday. Wind generation in the Cal-ISO footprint was around 175 MW after 2 p.m. EDT.

In the Southwest, Palo Verde on-peak prices were in the mid-\$30s/MWh on the ICE, up about 25 cents. Palo Verde off-peak prices were in the upper \$20s/MWh, about 25 cents down.

In the Northwest, Mid-Columbia on-peak dailies were averaging in the low \$30s/MWh, down about \$2.25. Mid-C off-peak was averaging in the mid-\$20s/MWh on the ICE, down about \$2. Opal spot natural gas was around \$3.51/MMBtu, up about 12 cents. The Bonneville Power Administration reported wind generation around 418 MW and hydro generation around 7,732 MW around 2 p.m. EDT.

In the Northwest term markets, Mid-C on-peak November dropped \$1.25 with bids at \$33.75 and offers at \$34/MWh on the Intercontinental Exchange around 2:30 p.m. EDT. December slid \$1 to about \$37.75/MWh, and the first quarter of 2013 fell 80 cents to about \$33.85/MWh. In California, SP15 on-peak November financial terms fell 25 cents with bids at \$40.75 and offers at \$41.20/MWh. December shed 75 cents to about \$39/MWh, and Q1 fell 75 cents to about \$42.25/MWh. NP15 November gained 50 cents to about \$39.75/MWh. In the Southwest, Palo Verde on-peak November terms rose 25 cents to about \$32.25/MWh, December fell 25 cents to about \$34.50/MWh, and Q1 slipped down 50 cents to about \$34/MWh.

Day-ahead markets for delivery Oct 31(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	34.39	-2.38	33.15-35.75	12	300	35.01
Mid-C	30.91	-2.66	28.50-33.50	155	4,100	32.51
Palo Verde	35.16	-0.19	34.00-36.00	10	275	33.57
Mead	35.25	0.18	35.25-35.25	N.A.	N.A.	34.45
Mona	35.25	-0.25	35.25-35.25	N.A.	N.A.	33.18
Four Corners	35.00	0.00	35.00-35.00	N.A.	N.A.	33.62
NP15	43.25	1.00	43.25-43.25	N.A.	N.A.	40.20
SP15	41.75	2.00	41.75-41.75	N.A.	N.A.	42.81
Off-Peak						
COB	26.25	-1.25	26.25-26.25	N.A.	N.A.	28.46
Mid-C	24.26	-2.02	22.00-26.50	70	1,825	27.57
Palo Verde	26.75	-0.54	26.75-26.75	N.A.	N.A.	26.16
Mead	27.50	-0.50	27.50-27.50	N.A.	N.A.	27.20
Mona	26.00	0.00	26.00-26.00	N.A.	N.A.	25.23
Four Corners	26.50	-1.00	26.50-26.50	N.A.	N.A.	25.68
NP15	29.50	0.50	29.50-29.50	N.A.	N.A.	28.99
SP15	28.50	0.75	28.50-28.50	N.A.	N.A.	28.97

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-week	10/24	31.75-32.50
Bal-month	10/29	33.75-34.25
Bal-month	10/25	32.50-33.25
Bal-month	10/24	32.50-33.00
Bal-month (off-peak)	10/24	27.50-28.00
SP15		
Bal-month	10/24	40.75-41.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Ace Cogen	118	g	Calif.	MO	Unk	10/25/12
Alta Wind/Tera-Gen	1020	w	Calif.	PMO	Unk	10/29/12
Colgate-2/PCWA	175	h	Calif.	PMO	Unk	08/26/12
Collierville-1&2/NCPA	247	h	Calif.	PMO	Unk	10/28/12
Crocket/Crocket	240	g	Calif.	PMO	Unk	10/28/12
Desert Star/SDG&E	494	g	Calif.	PMO	Unk	10/28/12
Elk Hills/Elk Hills	552	g	Calif.	PMO	Unk	10/28/12
Gateway/PG&E	590	g	Calif.	PMO	Unk	10/10/12
Harbor/Harbor	109	g	Calif.	PMO	Unk	10/29/12
Kerkhoff-1/PG&E	154	h	Calif.	PMO	Unk	09/30/12
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/12
Moss Landing-6/Dynergy	754	g	Calif.	PMO	Unk	10/28/12
Pine Flat/CDWR	210	h	Calif.	PMO	Unk	10/29/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Tracy/GWF	328	g	Calif.	PMO	Unk	10/04/12
Vincent	316	w	Calif.	PMO	Unk	10/18/12
Windstar	120	w	Calif.	PMO	Unk	10/18/12

WEST POWER MARKETS

Dailies end mixed; terms finish flat to lower

Western day-ahead power prices were mixed early Wednesday as packages traded for Thursday-Friday delivery to accommodate end-of-the-month scheduling. Terms ended flat to lower.

The NYMEX December natural gas futures contract expired at \$3.696/MMBtu, 7.3 cents lower than Tuesday's close. The January contract, which takes prompt-month position on Thursday, settled at \$3.801, down 9.1 cents.

In California, NP15 on-peak financial dailies were nearly unchanged with prices in the upper \$30s/MWh on the IntercontinentalExchange. NP15 off-peak held steady in the upper \$20s/MWh. SP15 on-peak financial dailies jumped about \$1.20 in the low to mid-\$40s/MWh and off-peak prices gained more than \$1.50 in the low \$30s/MWh. Spot natural gas for PG&E city-gates were down about 4 cents to about \$4.02/MMBtu and SoCal Gas city-gate was down about 2 cents to around \$3.97/MMBtu.

The California Independent System Operator forecast peak demand for Wednesday around 31,275 MW and 31,416 MW for Thursday. Wind generation in the Cal-ISO footprint was more than 800 MW around 2 p.m. EST. In the Southwest, Palo Verde on-peak prices slipped about 50 cents the upper \$20s/MWh on the ICE. Palo Verde off-peak prices added more than 50 cents in the mid-\$20s/MWh.

In the Northwest, Mid-Columbia on-peak dailies fell more than \$1.75 with prices in the upper \$20s/MWh. Mid-C off-peak moved down more than 50 cents to the mid-\$20s/MWh on the ICE. Opal spot natural gas eased about 6 cents to about \$3.71/MMBtu. The Bonneville Power Administration showed wind generation around 10 MW and hydro generation around 9,733 MW around 2:10 p.m. EST.

In the Northwest term markets, Mid-Columbia on-peak December dropped 50 cents with bids at \$32.25 and offers at \$33/MWh on the Intercontinental Exchange around 2:30 pm EST. January fell 50 cents to about \$32.75/MWh, and the first quarter of 2013 was virtually unchanged at about \$31.60/MWh. In California, SP15 on-peak December financial terms were unmoved with bids at \$39 and offers at \$39.25/MWh. January slid 50 cents to about \$42.75/MWh, and Q1 fell 25 cents to about \$42.75/MWh. NP15 December stayed at about \$37.50/MWh. In the Southwest, Palo Verde on-peak December terms fell 25 cents to about \$33/MWh, January shed 75 cents to about \$34/MWh, and Q1 fell 75 cents to about \$33.50/MWh.

Day-ahead markets for delivery Nov 29,30(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	32.36	-0.70	32.00-32.85	10	250	33.04
Mid-C	28.69	-1.80	28.40-29.50	206	5,400	28.87
Palo Verde	28.97	-0.69	28.75-29.00	5	250	29.20
Mead	30.98	-0.27	30.65-31.25	5	125	31.26
Mona	29.25	-0.25	29.25-29.25	N.A.	N.A.	29.19
Four Corners	29.00	-0.25	29.00-29.00	N.A.	N.A.	29.11
NP15	37.00	0.25	37.00-37.00	N.A.	N.A.	38.99
SP15	44.00	1.25	44.00-44.00	N.A.	N.A.	39.84
Off-Peak						
COB	28.41	0.17	28.00-28.70	6	150	28.68
Mid-C	26.23	-0.63	25.80-26.55	92	2,500	26.53
Palo Verde	26.54	0.63	26.25-26.75	32	1,125	25.81
Mead	28.50	1.00	28.50-28.50	N.A.	N.A.	27.70
Mona	26.25	0.50	26.25-26.25	N.A.	N.A.	25.42
Four Corners	25.75	-0.25	25.75-25.75	N.A.	N.A.	25.74
NP15	28.50	0.00	28.50-28.50	N.A.	N.A.	29.93
SP15	33.00	1.75	33.00-33.00	N.A.	N.A.	30.25

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	11/21	31.00-31.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
AV Solar-1/First Solar	140	s	Calif.	PMO	Unk	11/20/12
Colgate-2/PCWA	175	h	Calif.	PMO	Unk	08/26/12
DonVonRaesfeld/SVP	148	g	Calif.	PMO	Unk	11/26/12
Elk Hills/Oxy	552	g	Calif.	PMO	Unk	11/20/12
El Segundo-4/NRG	335	g	Calif.	MO	Unk	11/26/12
Haas-1&2/PG&E	144	h	Calif.	PMO	Unk	11/26/12
Huntington-3/AES	225	g	Calif.	PMO	Unk	11/01/12
Huntington-4/AES	215	g	Calif.	PMO	Unk	11/01/12
LaPaloma-4/LaPaGenCo	260	g	Calif.	PMO	Unk	11/18/12
LaRosita/Energia de Baja	322	g	Calif.	PMO	Unk	11/26/12
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/12
North Sky River/NSRE	160	w	Calif.	PMO	Unk	11/20/12
Pastoria/Calpine	751	g	Calif.	PMO	Unk	11/26/12
Redondo-5/AES	179	g	Calif.	PMO	Unk	11/26/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Shiloh/Iberdrola	353	w	Calif.	PMO	Unk	11/26/12

WEST POWER MARKETS

Dailies move higher; terms also up

Western dailies were up Friday as colder weather on Sunday and Monday approached much of the region. Terms in the region also advanced. The NYMEX February natural gas futures contract settled 5.7 cents higher on Friday, at \$3.469/MMBtu, on a wave of buying after the contract dropped in the previous session, sources said.

Mid-Columbia day-ahead on-peak was up about 50 cents at \$26.50/MWh for delivery on Monday. Mid-C day-ahead off-peak was up 50 cents at about \$25.50/MWh on IntercontinentalExchange, with the inclusion of all day Sunday in the off-peak package. Portland was expecting a drop in temperatures to continue through Sunday and down into low 20s on Monday morning. The Bonneville Power Administration's wind generation on Friday morning was 25 MW, down from more than 1,000 MW on Thursday afternoon. Hydropower was up about 3,000 MW to 11,907 MW.

In California, SP15 next-day on-peak was up more than \$3 and at \$36.25/MWh. SP15 day-ahead off-peak rose \$3 to about \$31/MWh on ICE. NP15 day-ahead on-peak increased \$2 to \$34.50/MWh. NP15 day-ahead off-peak jumped more than \$3 to \$30.25/MWh. While Sacramento forecasts had steady highs in the low- to mid-50s into Monday, lows were expected around 30 on Sunday and Monday. Burbank was expecting a similar cooling trend, although its lows were projected to be in the high 30s. The California Independent System Operator forecast peak demand to be at 29,714 MW on Friday and more than 27,670 MW on Saturday. Renewable generation was at 2,818 MW while wind was around 75 MW.

Palo Verde on-peak next-day rose 25 cents to trade around \$31.25/MWh. Meanwhile, Palo Verde day-ahead off-peak increased \$3 to trade near \$29.25/MWh. Phoenix was expecting to see high temperatures rise to the upper 60s on Saturday before returning to around 60 Sunday and Monday. Natural gas prices in the West were mixed with a half-cent rise at Opal to 3.395/MMBtu, an 8.5-cent drop at PG&E city-gate to 3.665/MMBtu and a 7-cent decline at SoCal city-gate to 3.600/MMBtu.

Most western January on-peak terms rose Friday, as did February natural gas futures in late trading. In the Northwest, Mid-Columbia on-peak January was unchanged with bids at \$28.50 and offers at \$29/MWh on ICE around 2:30 p.m. EST. The first quarter crept up 15 cents to about \$27.25/MWh,

Day-ahead markets for delivery Dec 31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	28.75	1.25	28.00-29.50	6	150	28.82
Mid-C	26.38	0.29	26.00-27.75	101	2,725	26.20
Palo Verde	31.32	0.31	30.75-31.50	23	625	29.71
Mead	32.00	0.50	32.00-32.00	N.A.	N.A.	31.43
Mona	34.50	4.50	34.50-34.50	N.A.	N.A.	29.60
Four Corners	31.75	1.25	31.75-31.75	N.A.	N.A.	30.14
NP15	34.75	2.25	34.75-34.75	N.A.	N.A.	36.39
SP15	35.25	2.25	35.25-35.25	N.A.	N.A.	38.77
Off-Peak						
COB	27.25	0.67	27.25-27.25	N.A.	N.A.	24.19
Mid-C	25.65	0.28	25.25-26.25	81	2,300	21.91
Palo Verde	29.26	3.01	29.26-29.26	N.A.	N.A.	25.31
Mead	30.00	2.25	30.00-30.00	N.A.	N.A.	27.28
Mona	29.00	3.25	29.00-29.00	N.A.	N.A.	24.27
Four Corners	28.75	3.25	28.75-28.75	N.A.	N.A.	25.24
NP15	30.25	3.25	30.25-30.25	N.A.	N.A.	27.70
SP15	31.25	3.25	31.25-31.25	N.A.	N.A.	28.95

West off-peak includes all day Sunday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
No data available		

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
AV Solar-1/First Solar	140	s	Calif.	PMO	Unk	11/20/12
Colgate-2/PCWA	175	h	Calif.	PMO	Unk	08/26/12
Haas-1&2/PG&E	144	h	Calif.	PMO	Unk	11/26/12
Helms-2/PG&E	407	h	Calif.	PMO	Unk	12/02/12
Huntington-3/AES	225	g	Calif.	PMO	Unk	11/01/12
Huntington-4/AES	215	g	Calif.	PMO	Unk	11/01/12
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/12
Moss Landing-6/Dynegy	754	g	Calif.	PMO	Unk	12/27/12
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	PMO	Unk	01/31/12

and the second quarter rose 25 cents to about \$20.65/MWh. In California, SP15 on-peak January financial terms surged up 75 cents with bids at \$42.50 and offers at \$43/MWh. Q1 climbed 60 cents to about \$43/MWh, and Q2 rose 50 cents to about \$42.75/MWh. NP15 January rose 25 cents to about \$39/MWh. Palo Verde January jumped \$1 to about \$30/MWh, Q1 rose 35 cents to about \$30.25/MWh, and Q2 rose 50 cents to about \$33.75/MWh.

Weekly Water Quality System Status

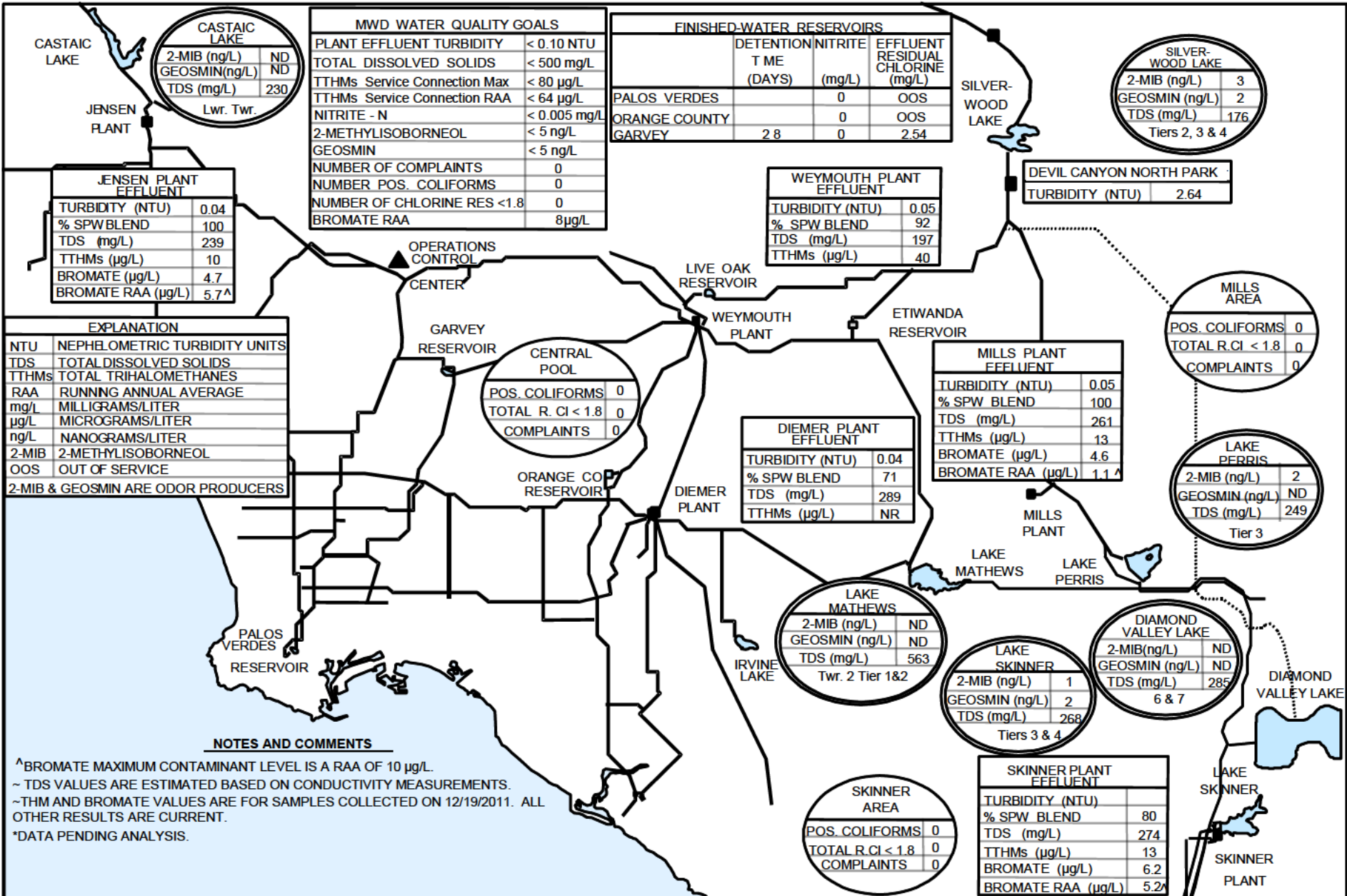
Wednesday, January 04, 2012

DTX-1124



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

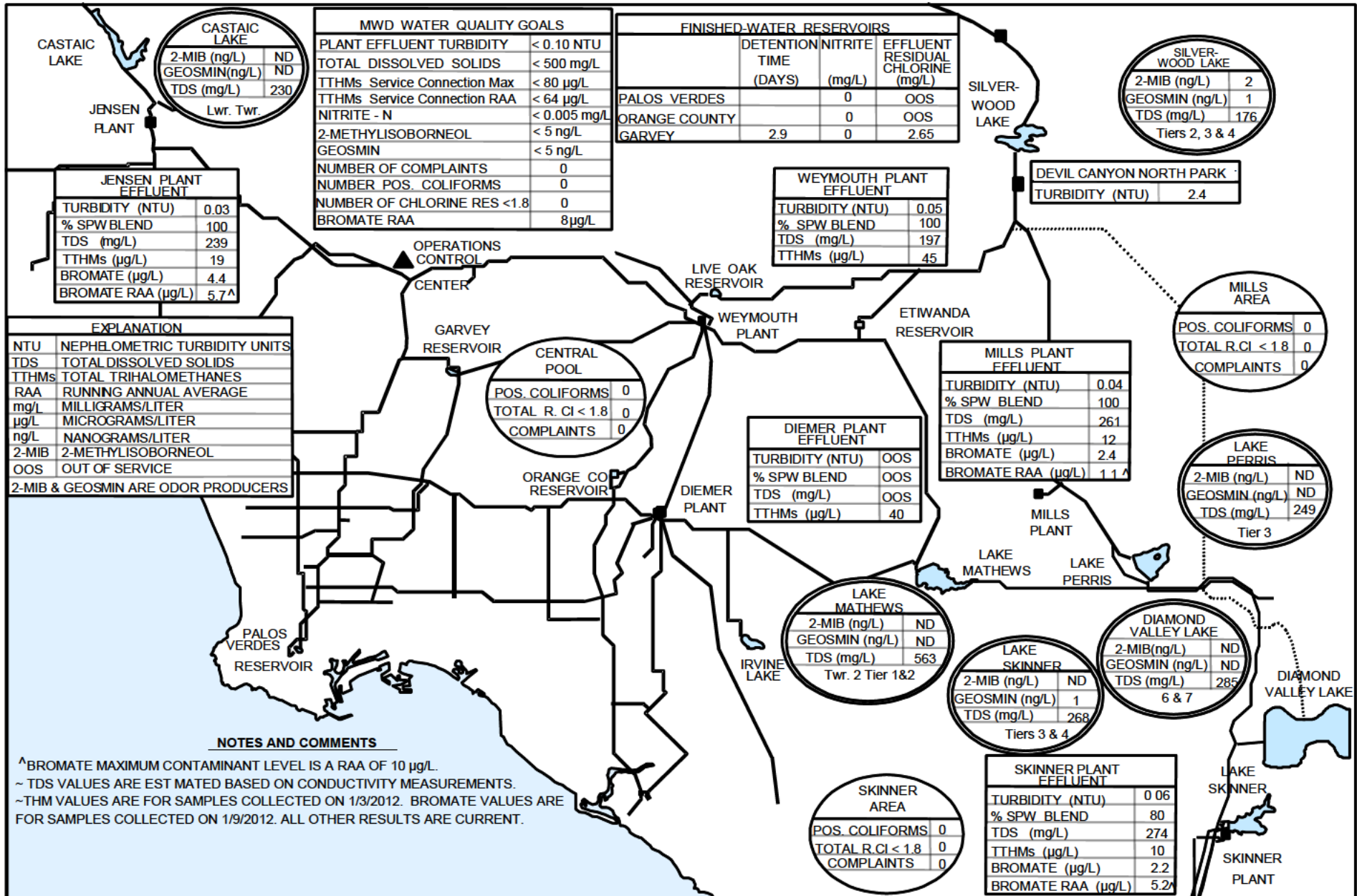
Wednesday, January 11, 2012

DTX-1124



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

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Weekly Water Quality System Status

Wednesday, January 18, 2012

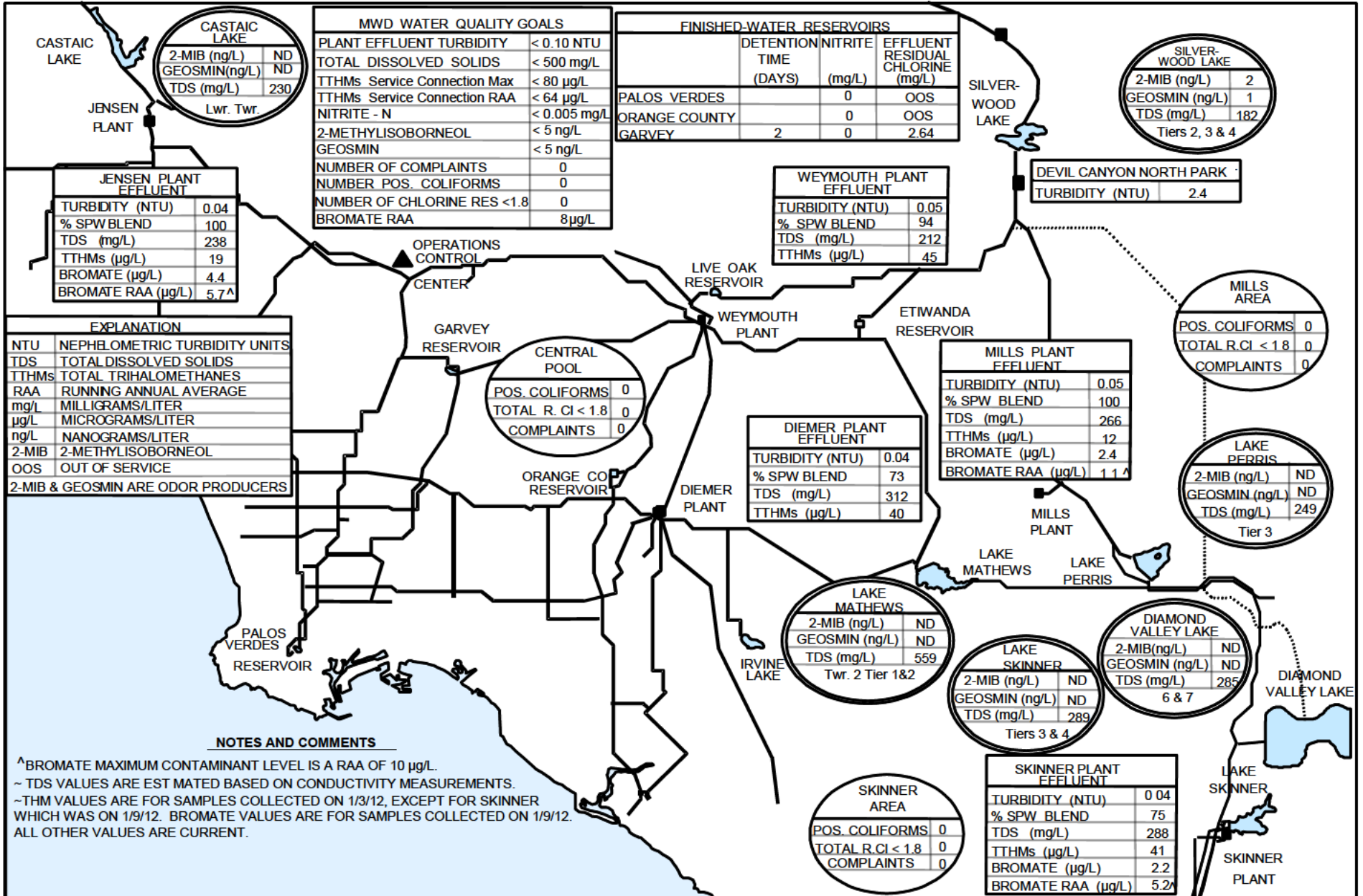
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Weekly Water Quality System Status

Thursday, January 26, 2012

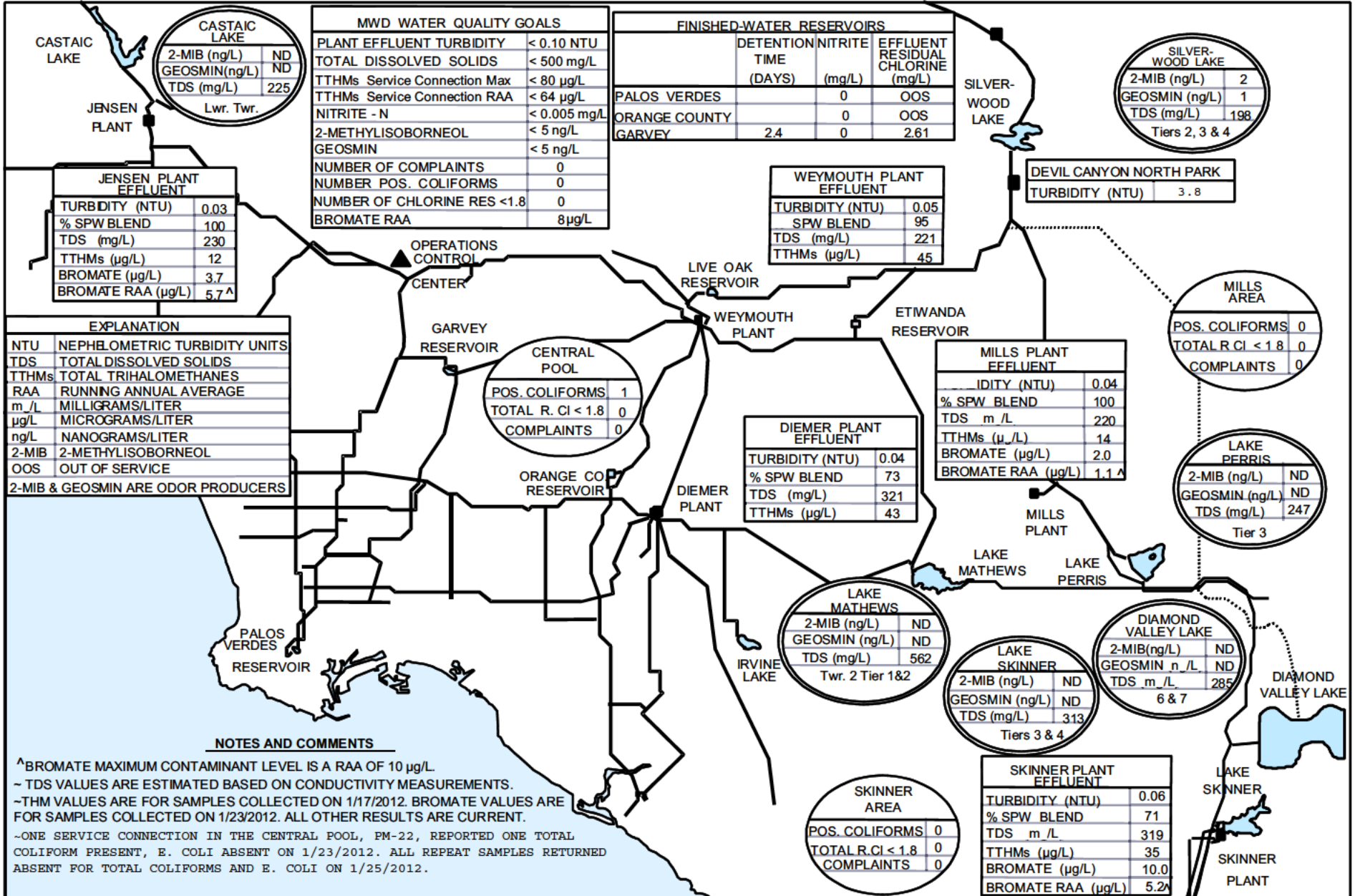
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Printed On: 1/27/2012 11:47:26



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Weekly Water Quality System Status

Wednesday, February 01, 2012

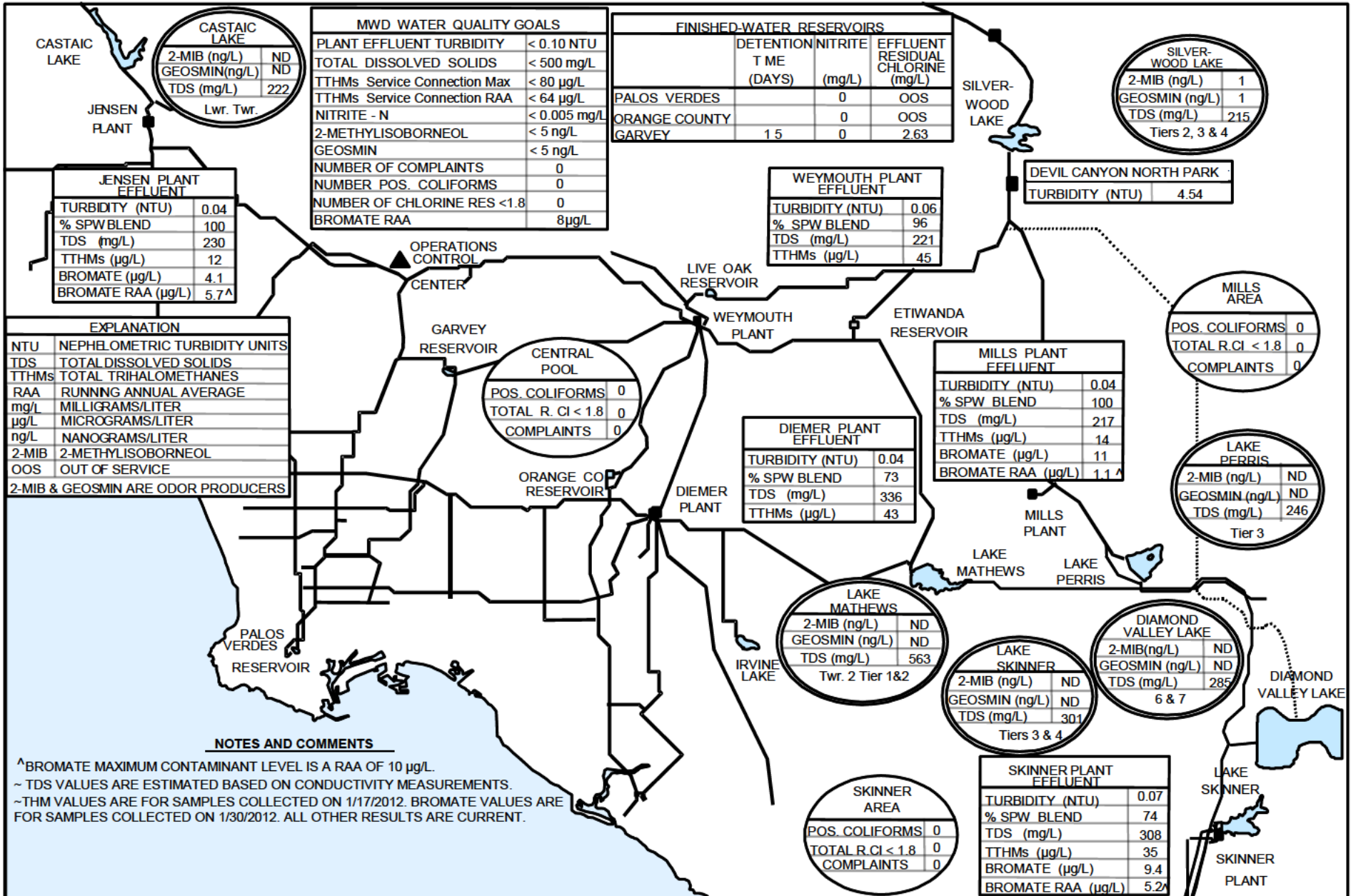
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Weekly Water Quality System Status

Wednesday, February 08, 2012

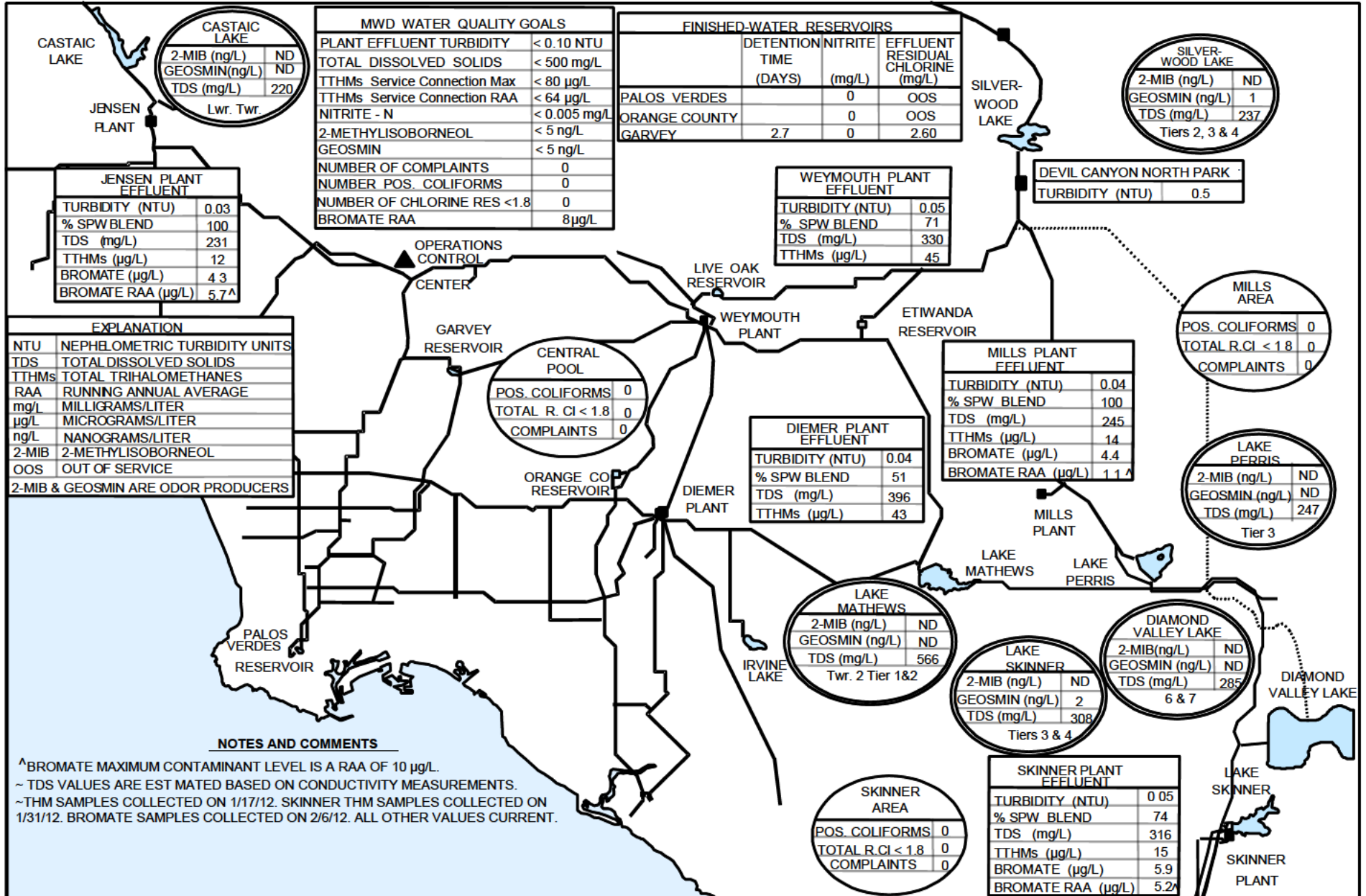
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Printed On: 2/9/2012 2:39:51 PM



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Weekly Water Quality System Status

Wednesday, February 15, 2012

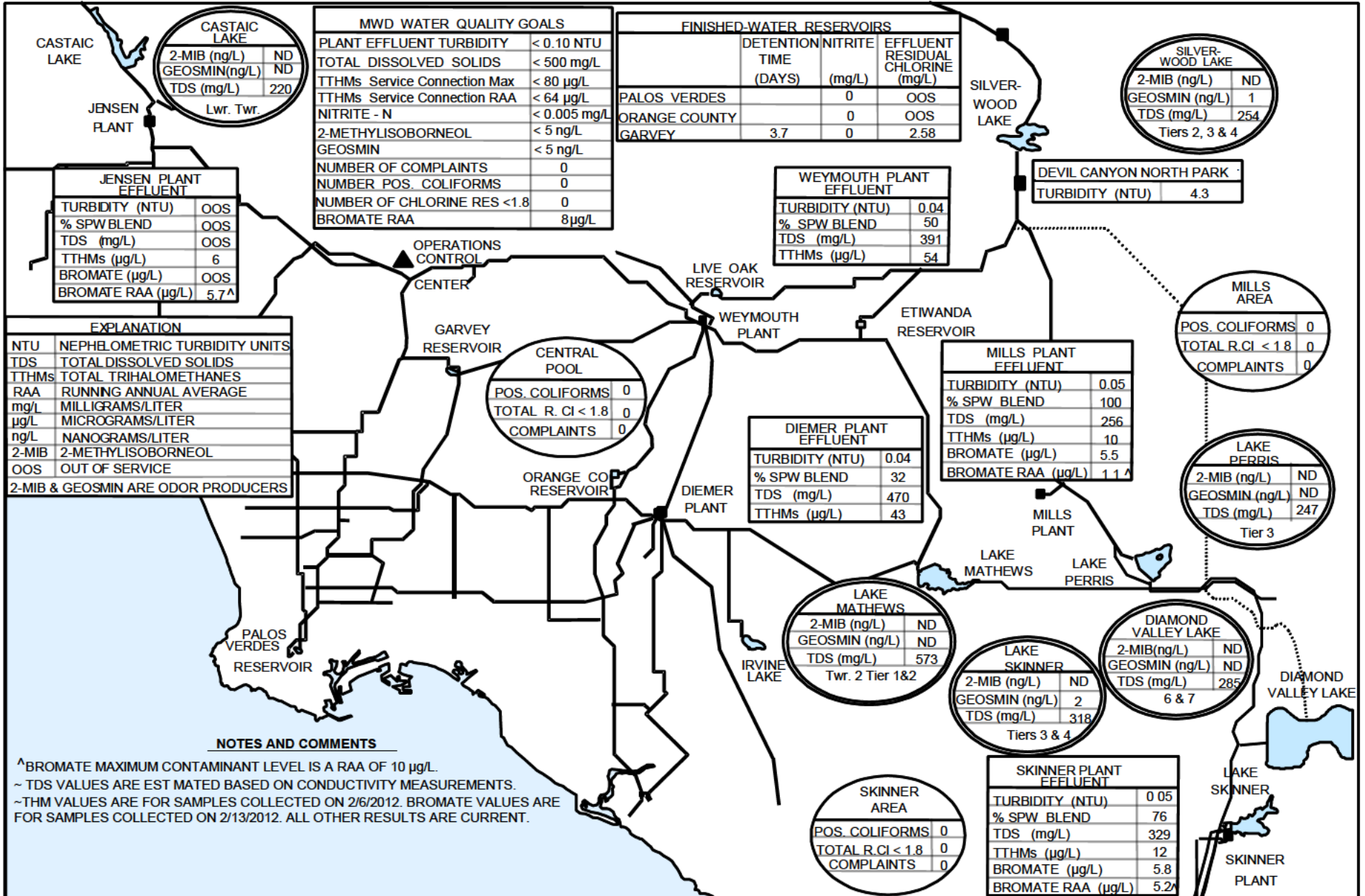
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Weekly Water Quality System Status

Thursday, February 23, 2012

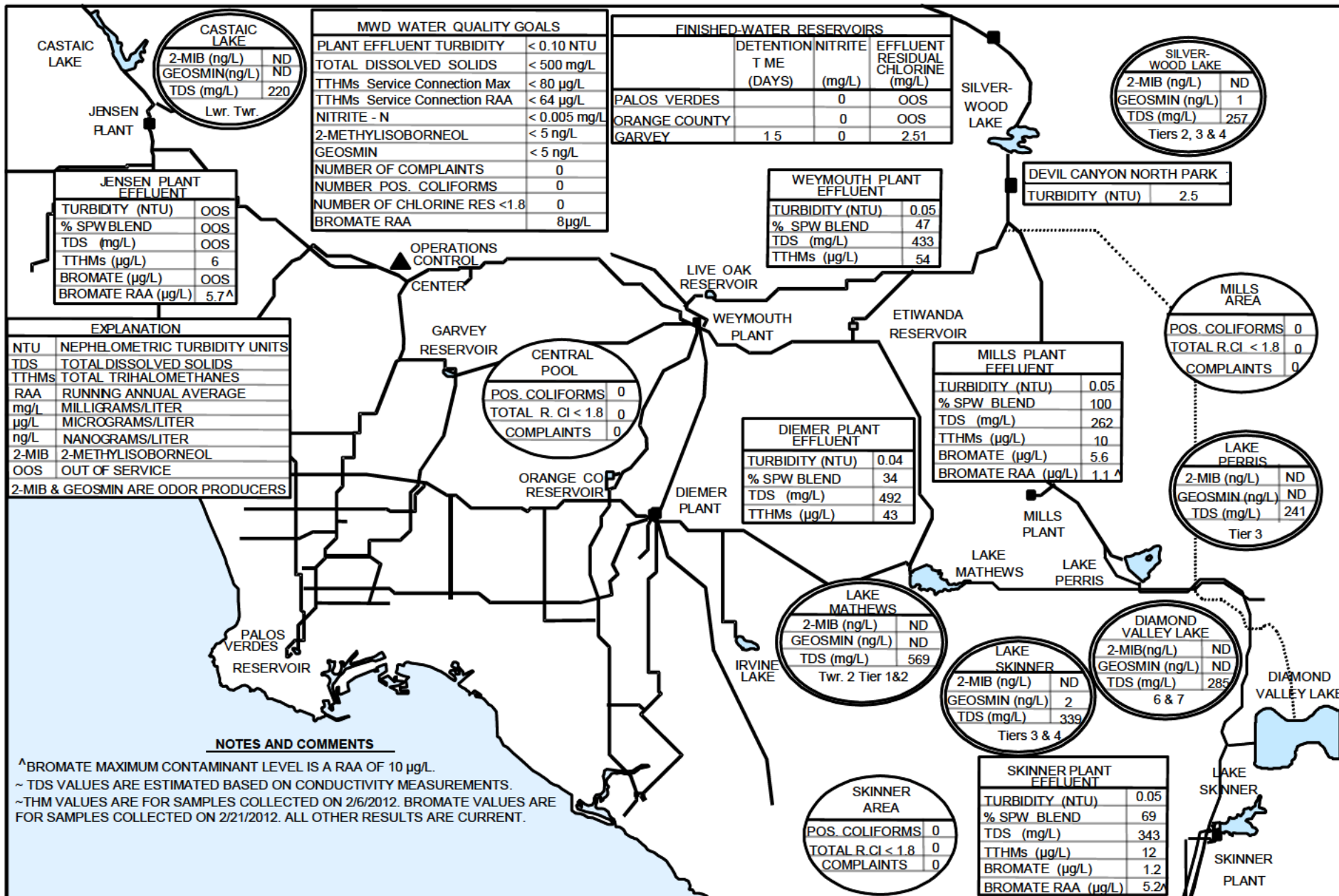
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Weekly Water Quality System Status

Wednesday, February 29, 2012

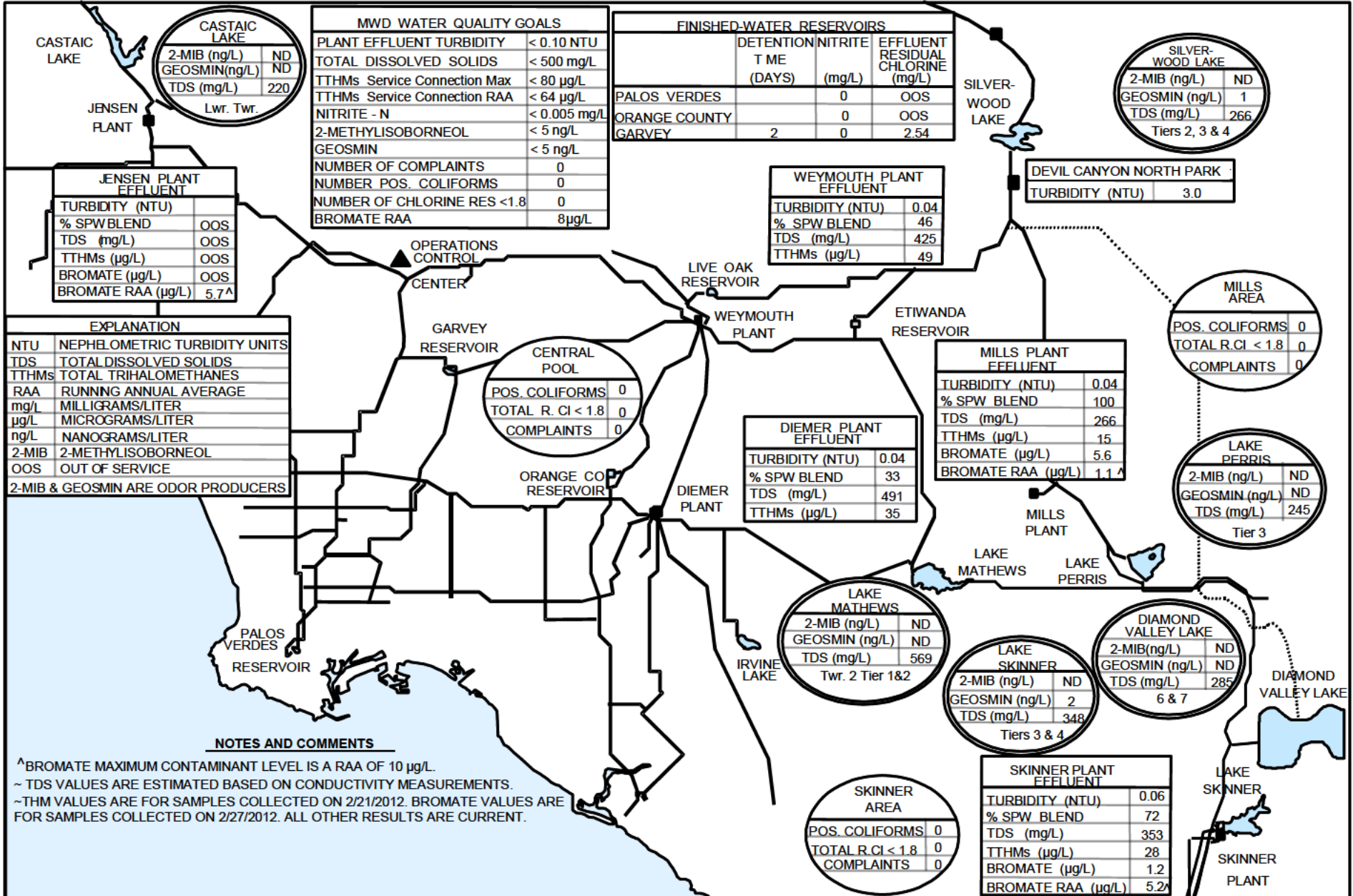
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Weekly Water Quality System Status

Wednesday, March 07, 2012

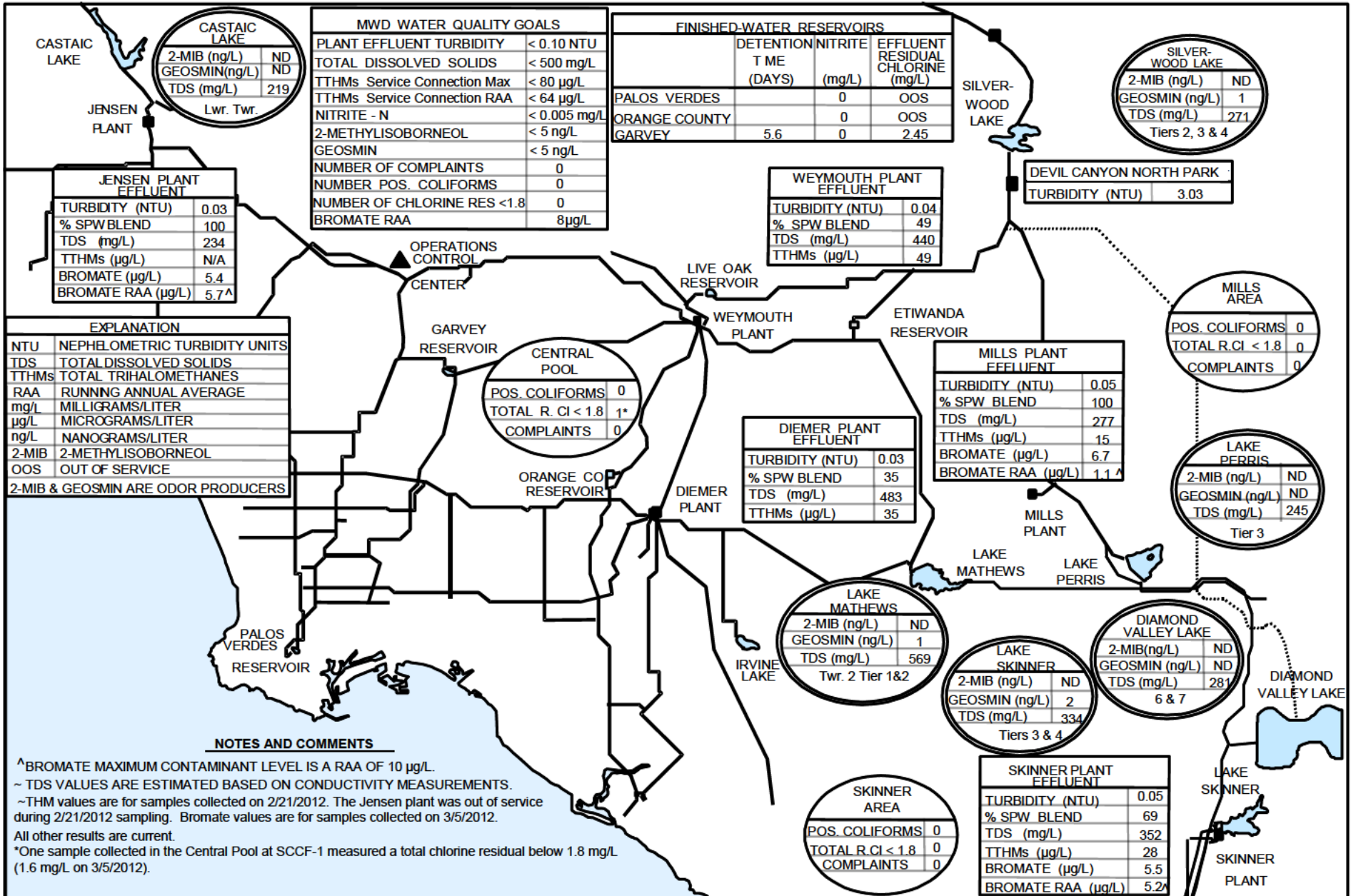
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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

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MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

Wednesday, March 14, 2012

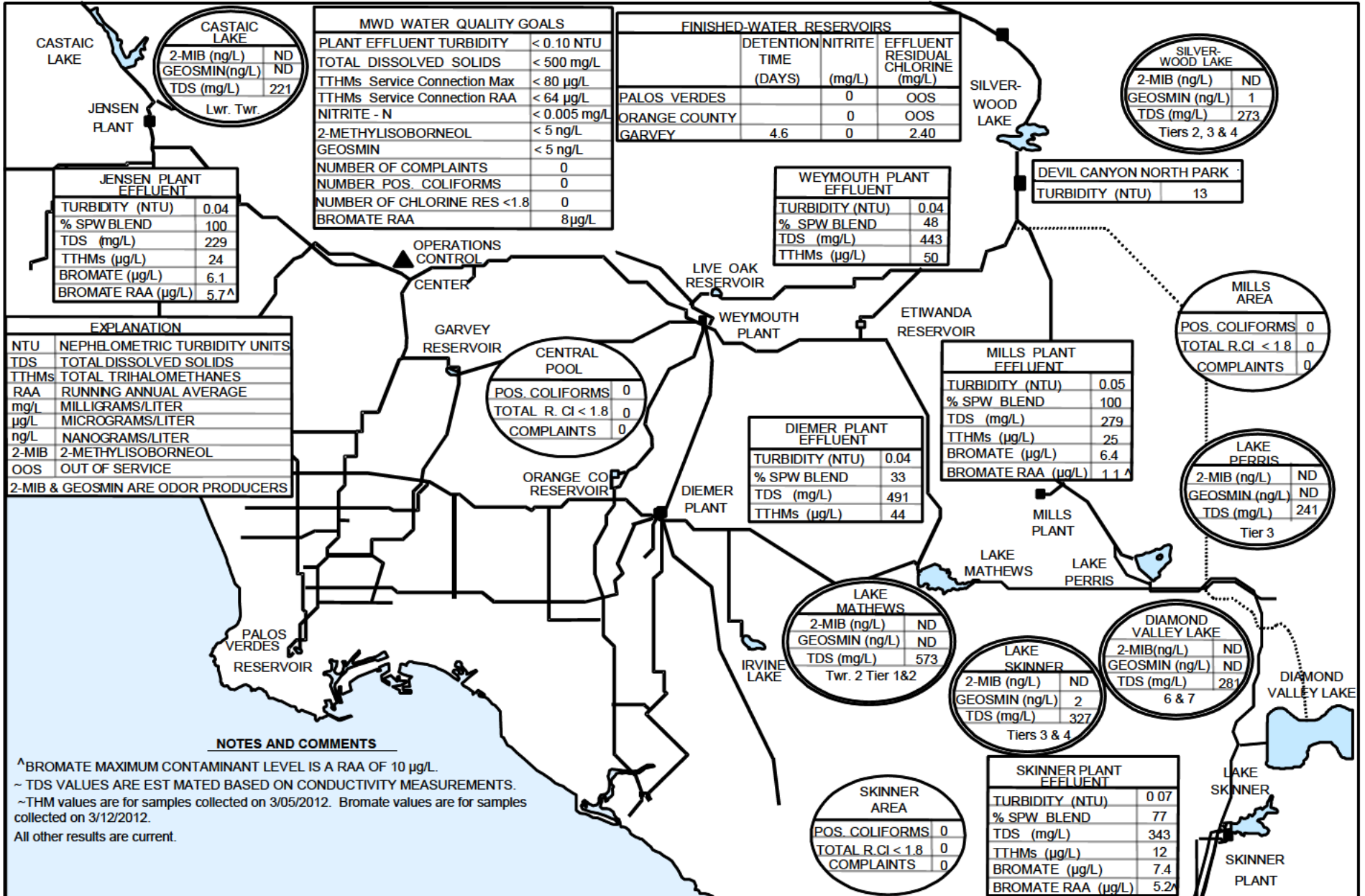
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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

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MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

Wednesday, March 21, 2012

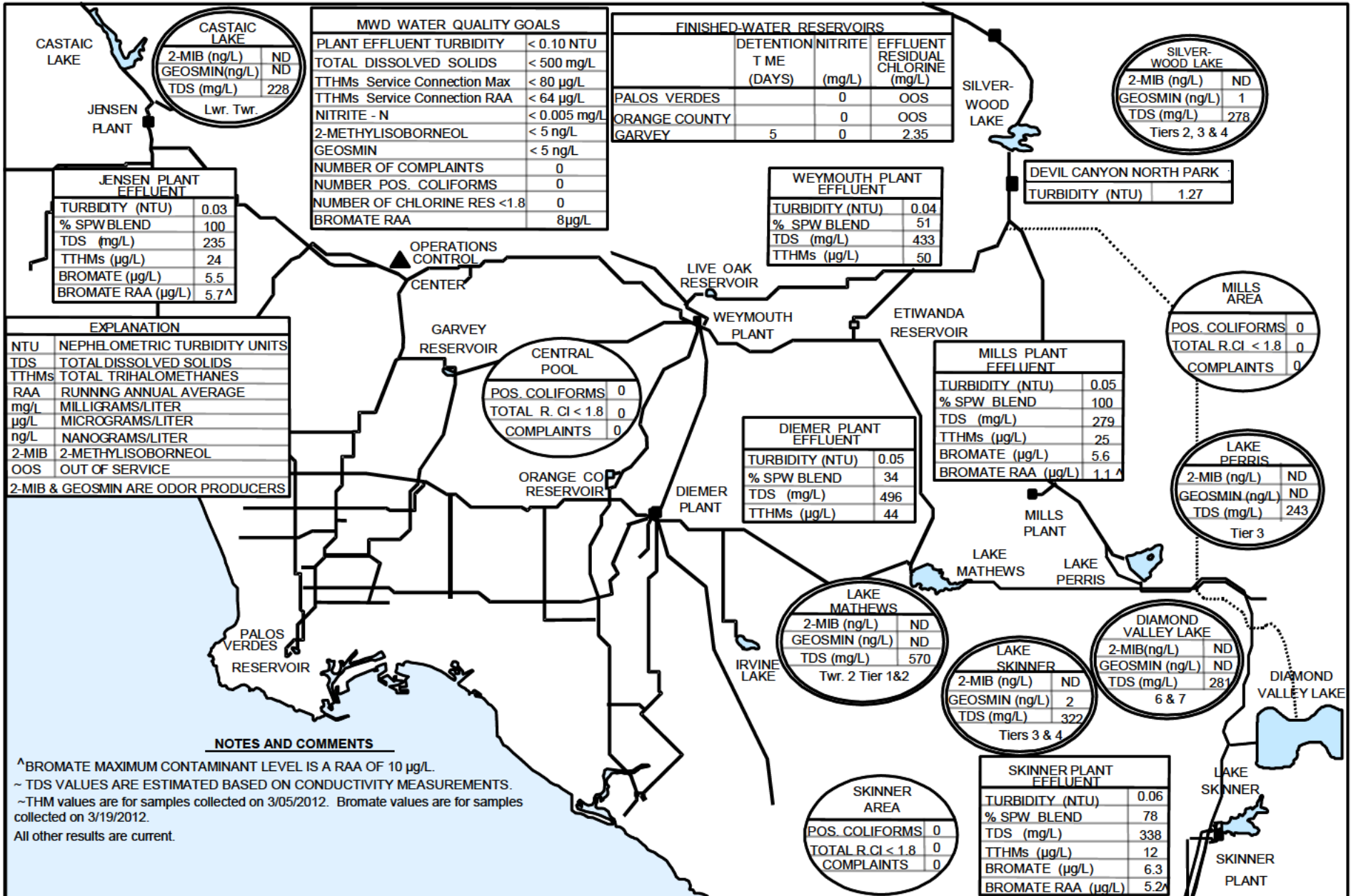
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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

NO VIOLATIONS OF STATE OR FEDERAL REGULATIONS WERE RECORDED DURING THE CURRENT PERIOD.



MWD WATER QUALITY GOALS MEET OR EXCEED ALL STATE AND FEDERAL REGULATIONS.

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Weekly Water Quality System Status

Wednesday, March 28, 2012

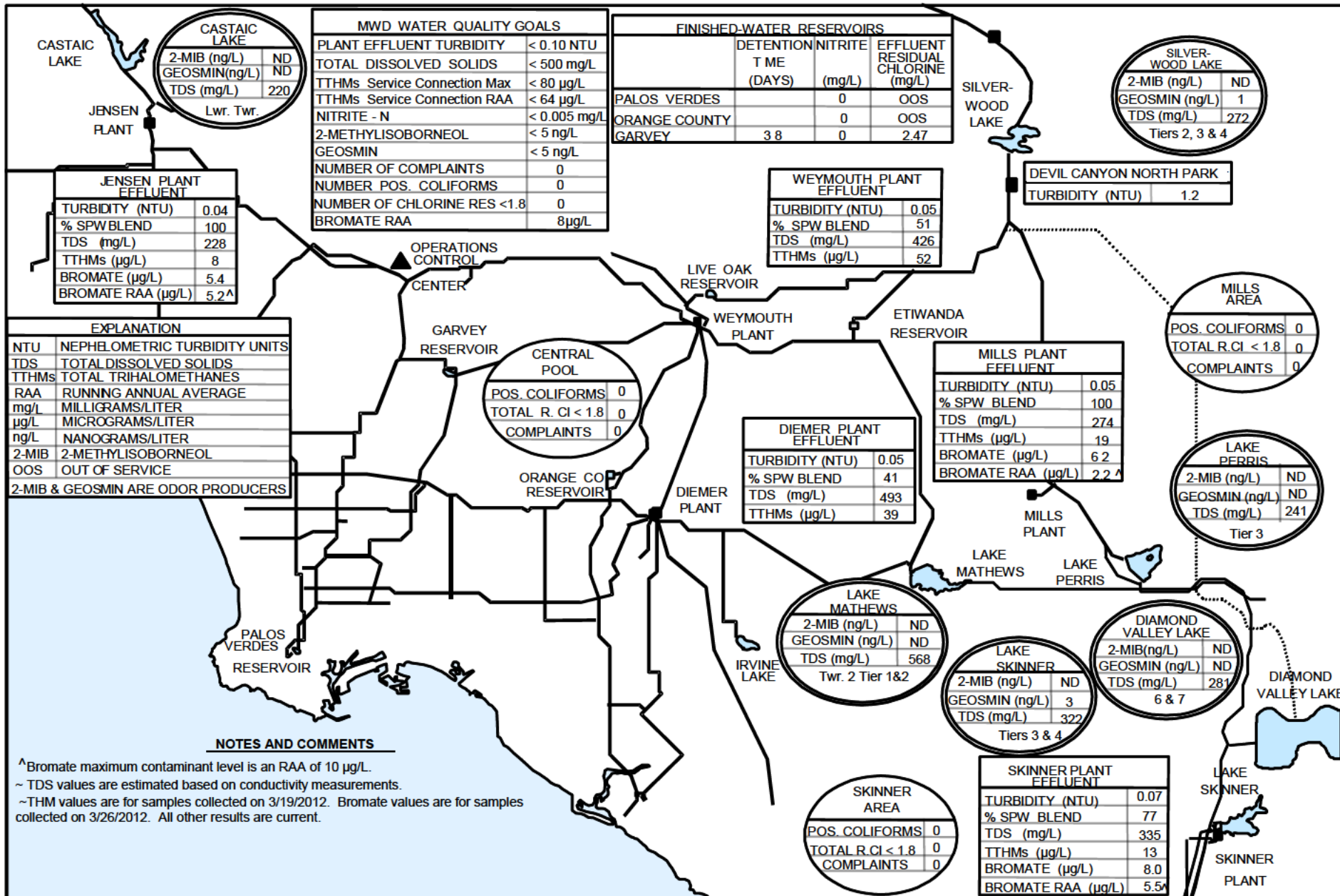
DTX-1124

Printed On: 3/28/2012 11:53:25 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

Wednesday, April 04, 2012

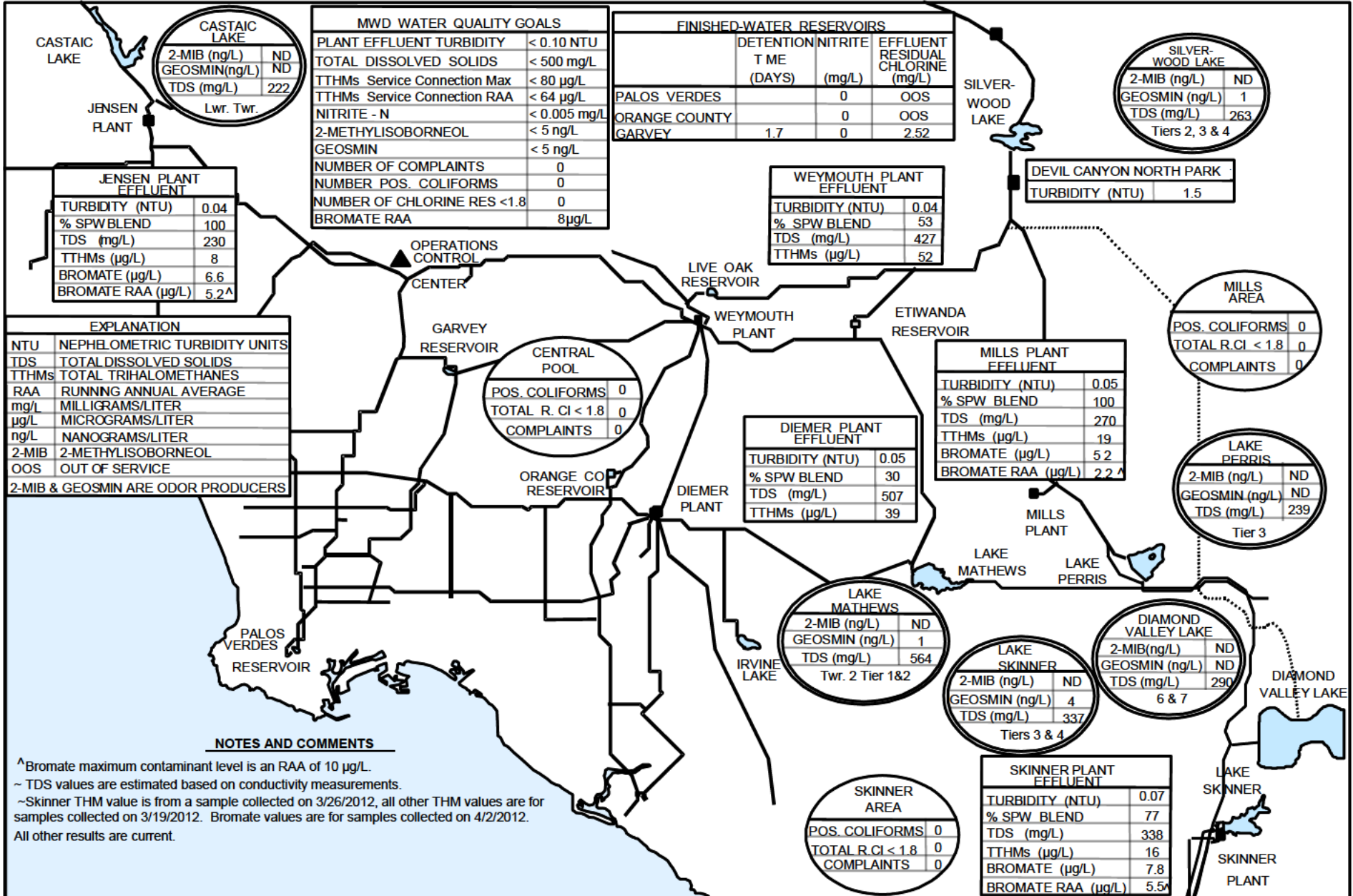
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Printed On: 4/4/2012 2:48:37 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



NOTES AND COMMENTS

[^]Bromate maximum contaminant level is an RAA of 10 µg/L.
 ~ TDS values are estimated based on conductivity measurements.
 ~ Skinner THM value is from a sample collected on 3/26/2012, all other THM values are for samples collected on 3/19/2012. Bromate values are for samples collected on 4/2/2012.
 All other results are current.

MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, April 11, 2012

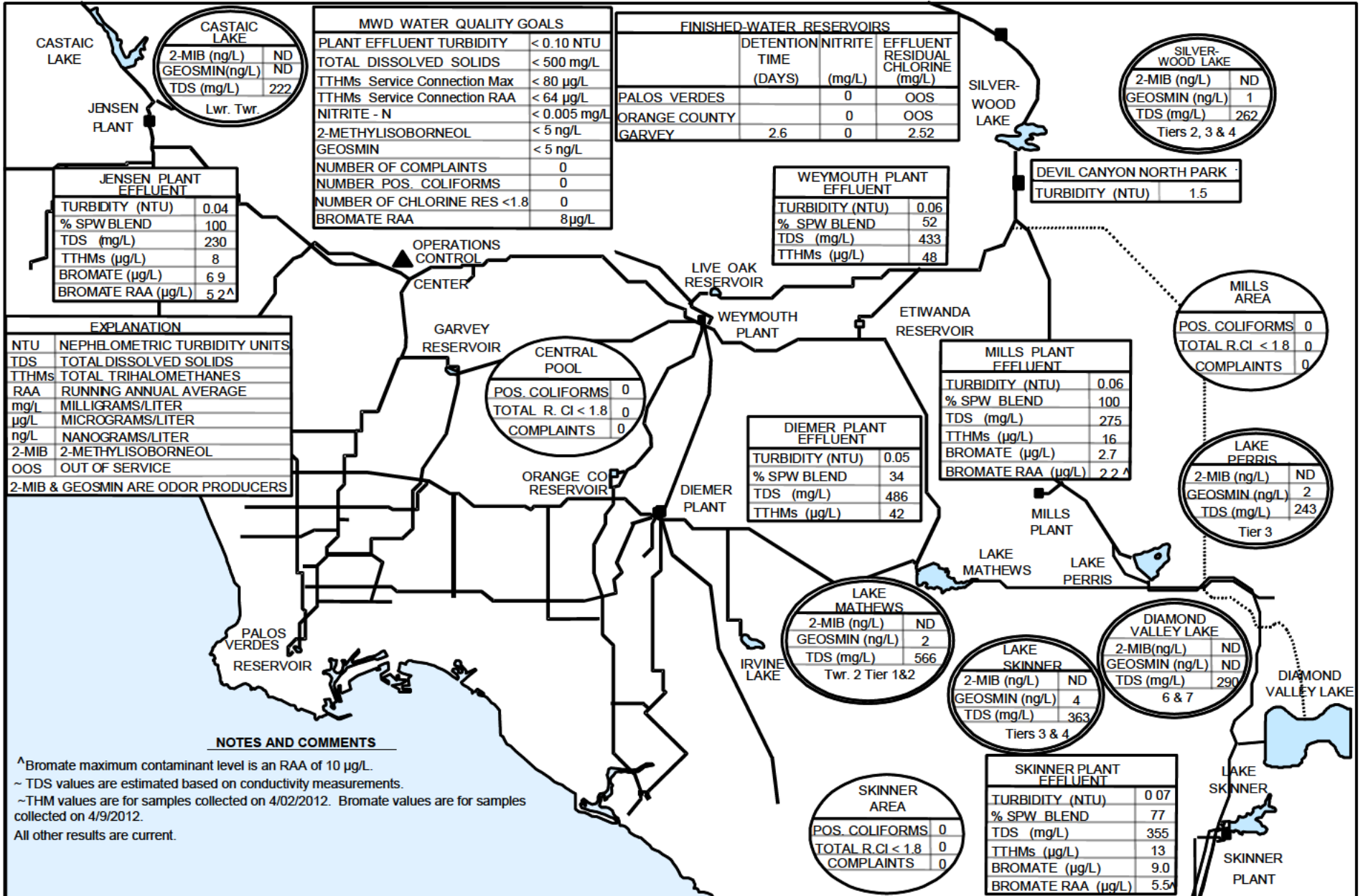
DTX-1124

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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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Weekly Water Quality System Status

Wednesday, April 18, 2012

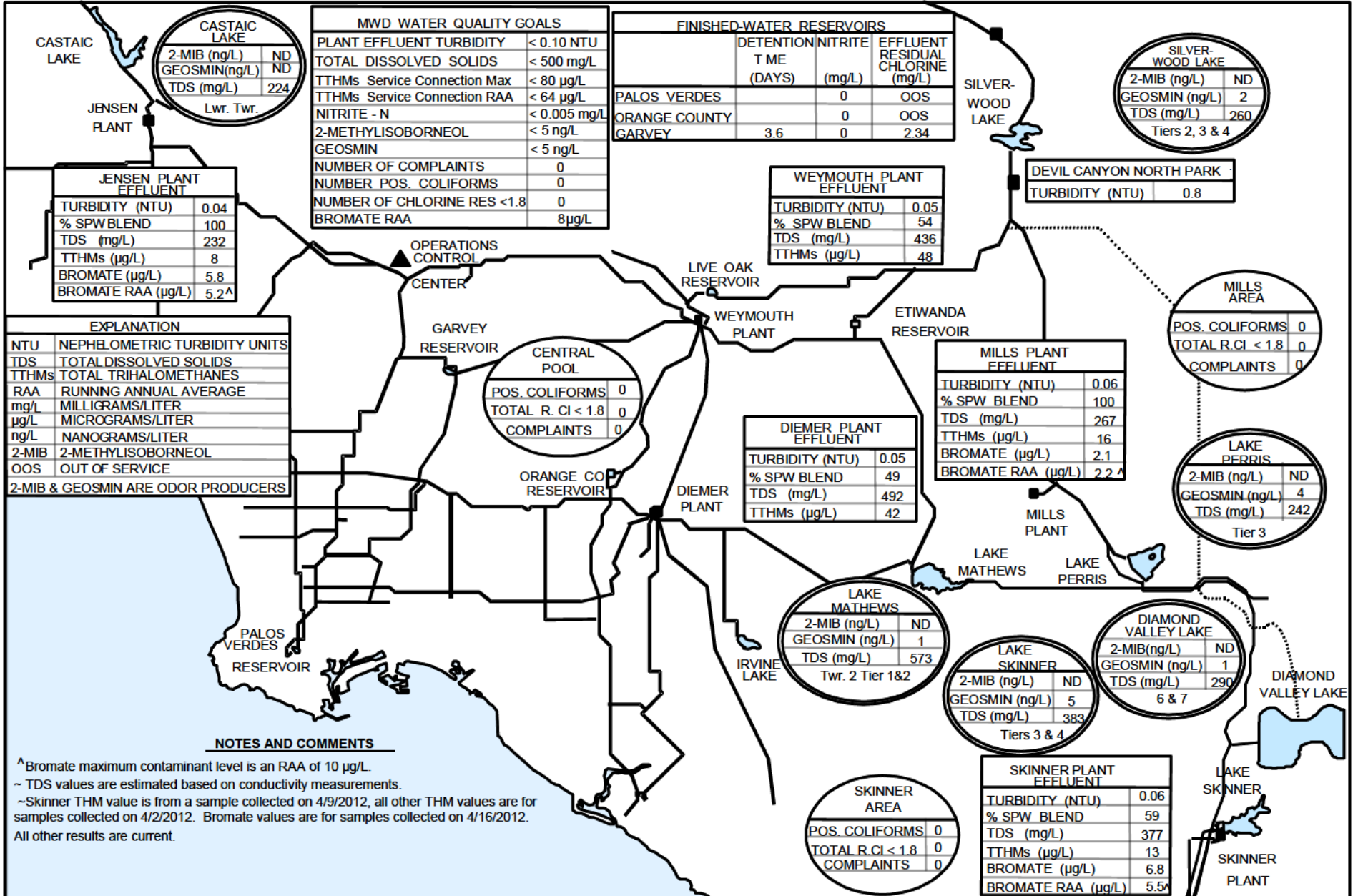
DTX-1124

Printed On: 4/18/2012 12:53:44 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, April 25, 2012

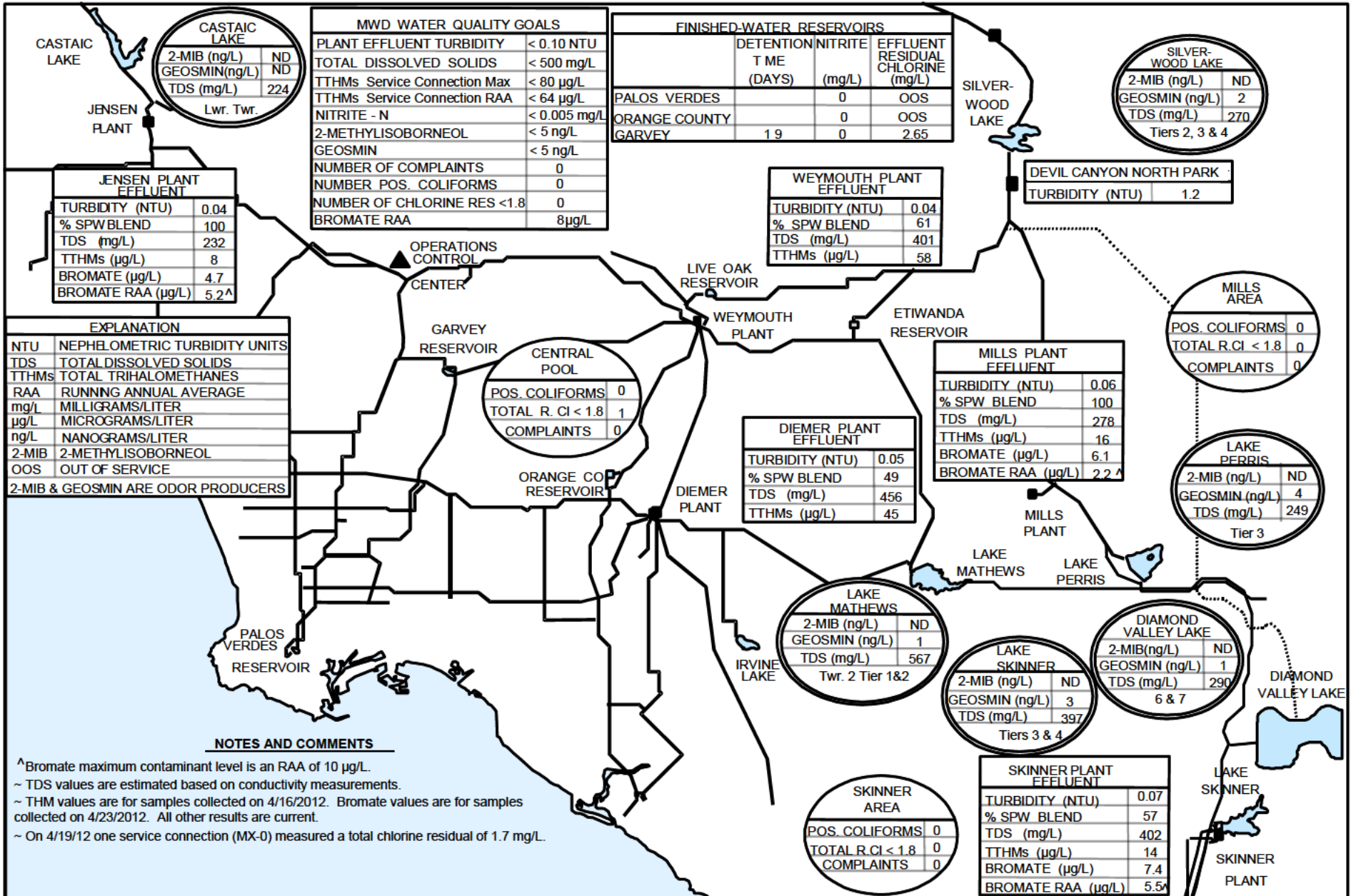
DTX-1124

Printed On: 4/25/2012 8:20:53 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, May 02, 2012

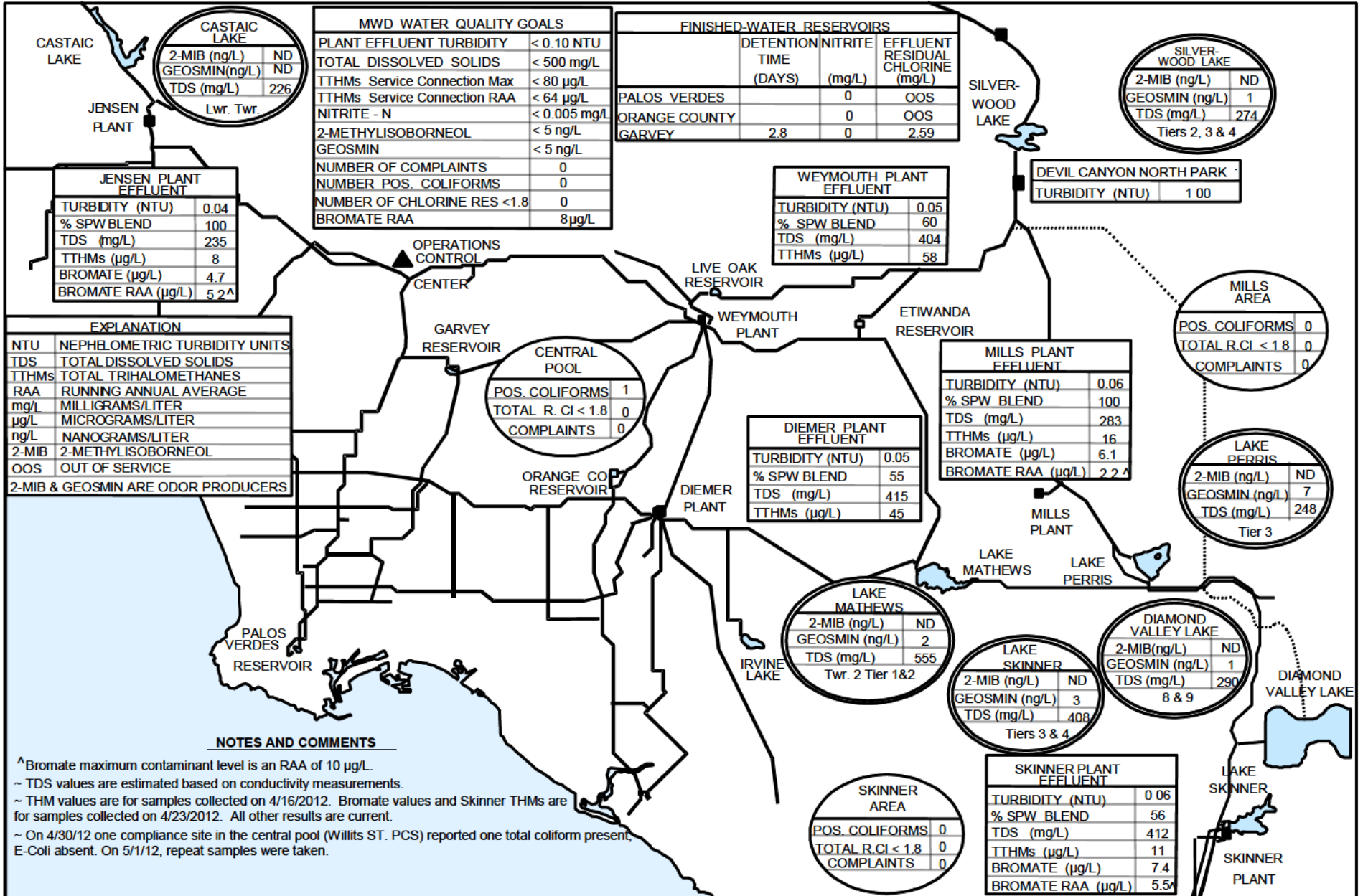
DTX-1124

Printed On: 5/2/2012 3:41:44 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, May 09, 2012

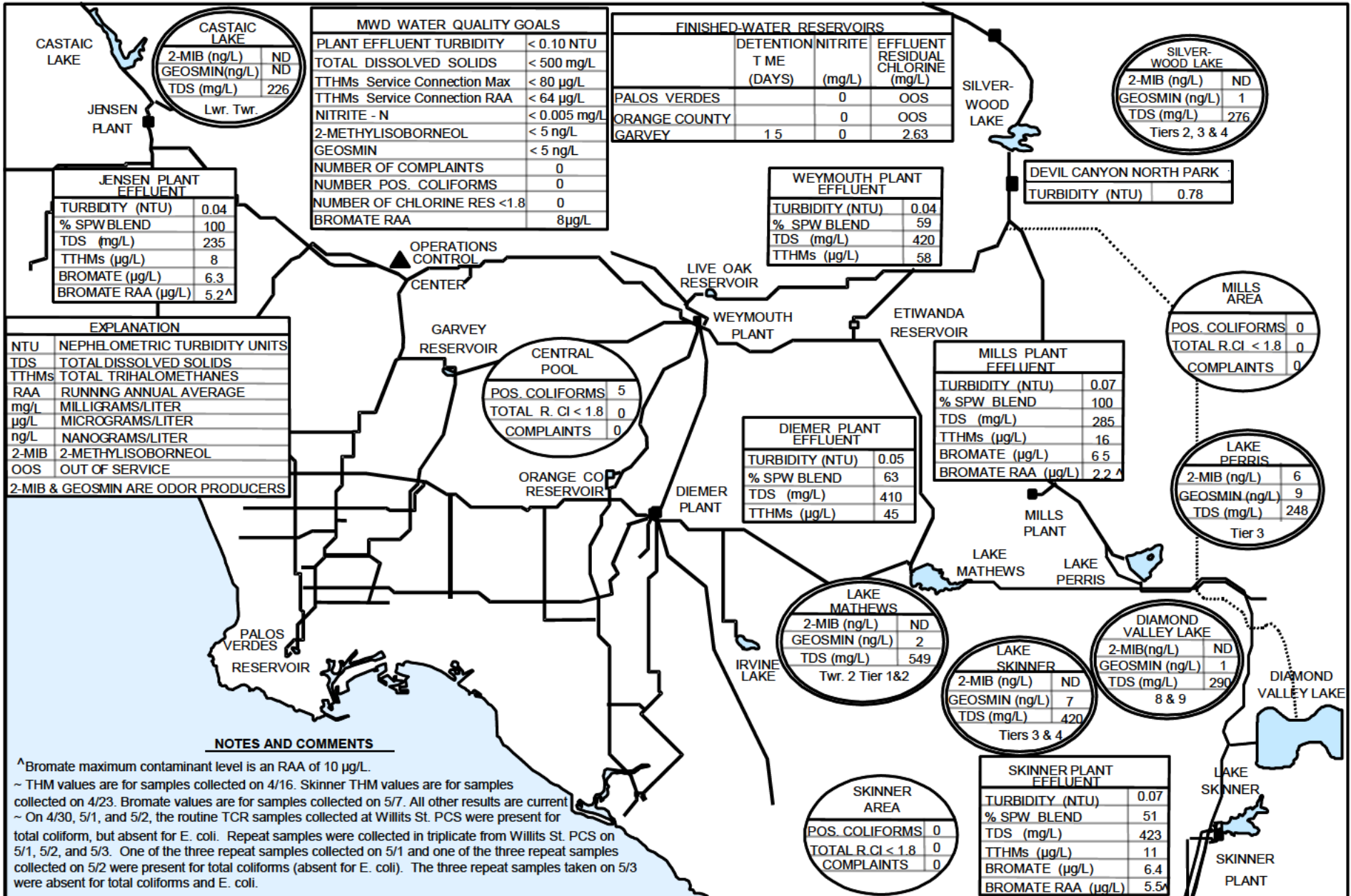
DTX-1124

Printed On: 5/9/2012 1:09:37 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, May 16, 2012

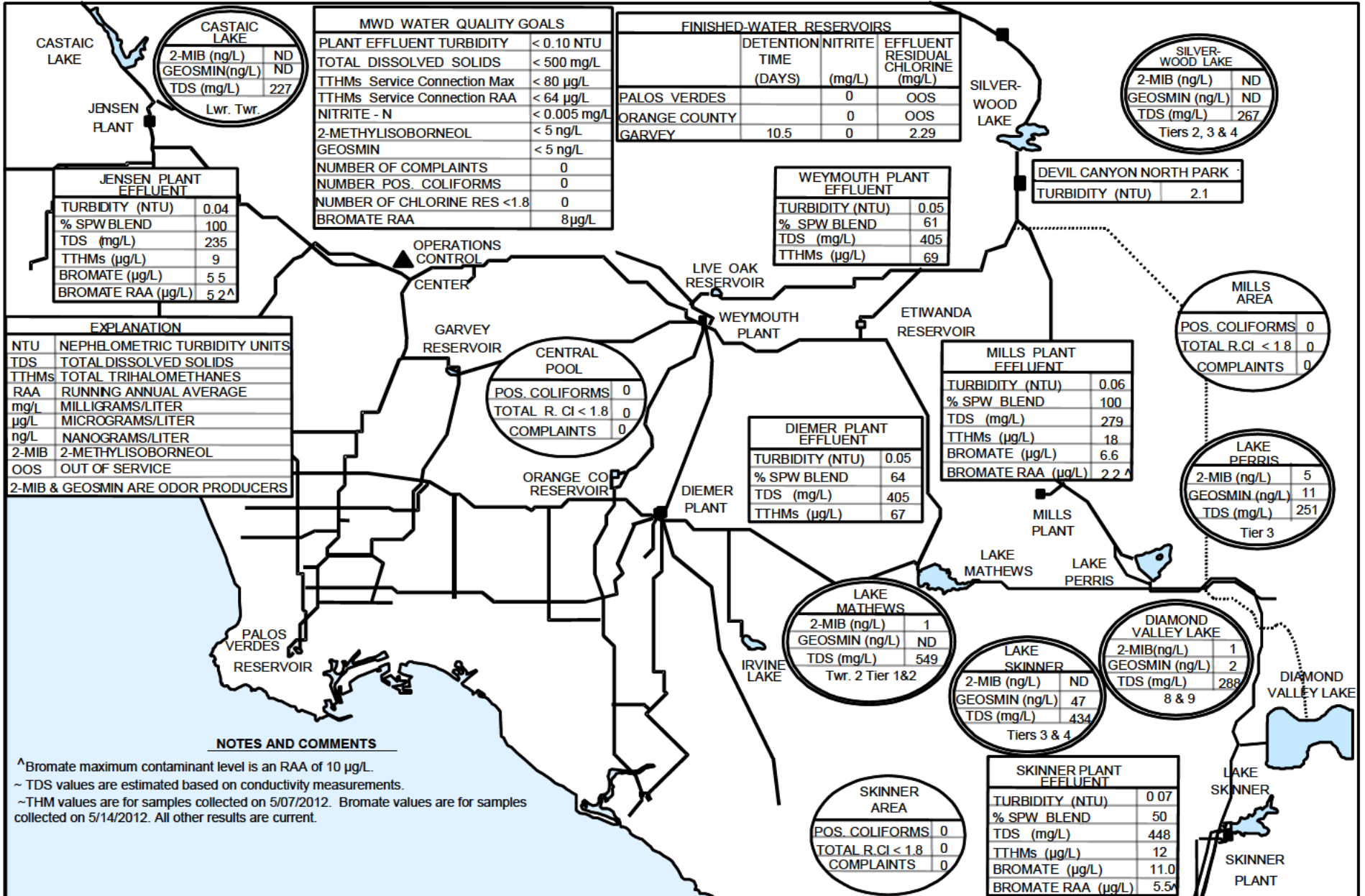
DTX-1124

Printed On: 5/16/2012 3:58:51 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, May 23, 2012

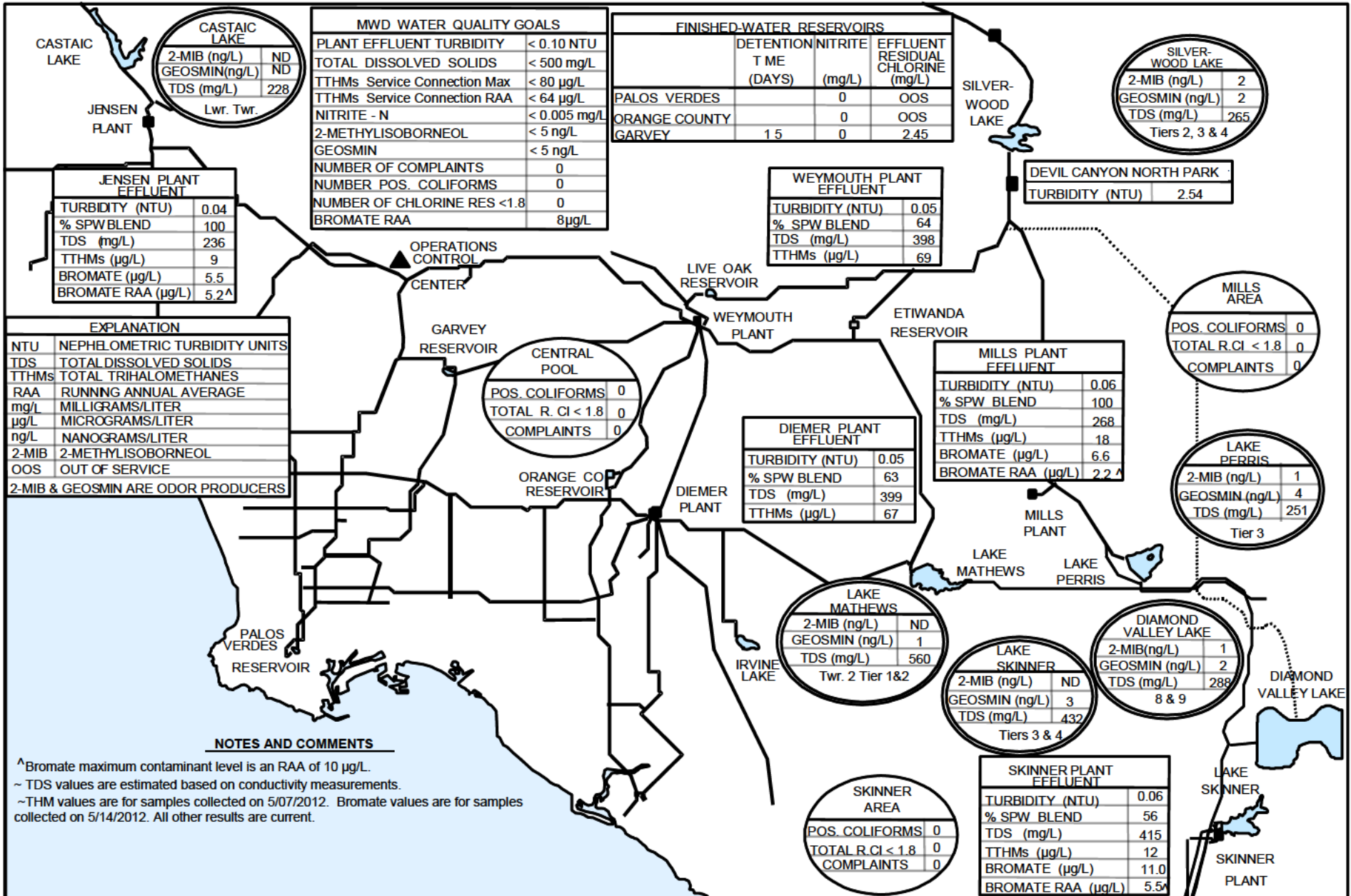
DTX-1124

Printed On: 5/23/2012 9:06:16 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, May 31, 2012

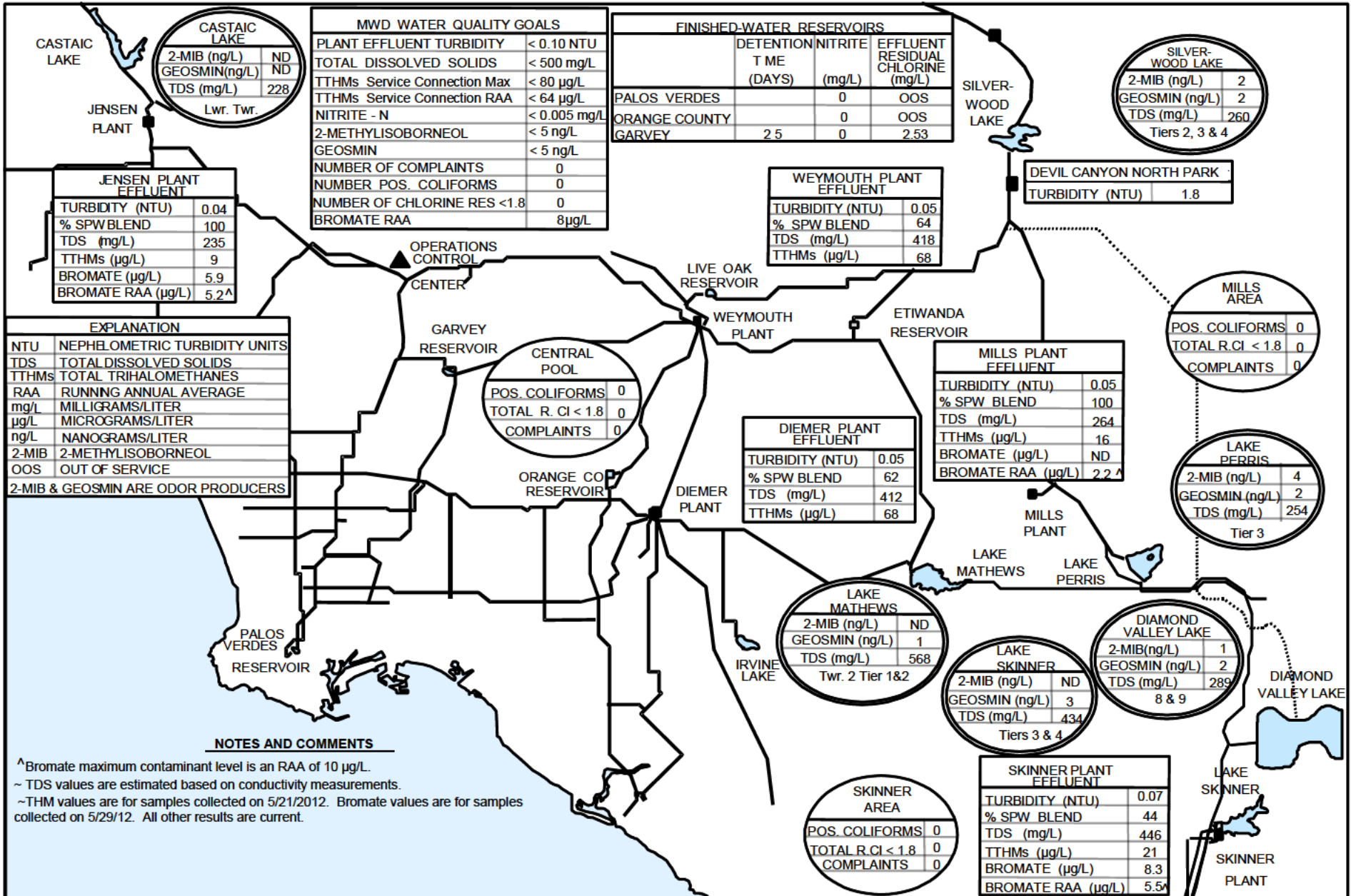
DTX-1124

Printed On: 5/31/2012 12:51:19 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



EXPLANATION

NTU	NEPHELOMETRIC TURBIDITY UNITS
TDS	TOTAL DISSOLVED SOLIDS
TTHMs	TOTAL TRIHALOMETHANES
RAA	RUNNING ANNUAL AVERAGE
mg/l	MILLIGRAMS/LITER
µg/L	MICROGRAMS/LITER
ng/L	NANOGRAMS/LITER
2-MIB	2-METHYLISOBORNEOL
OOS	OUT OF SERVICE
2-MIB & GEOSMIN ARE ODOR PRODUCERS	

NOTES AND COMMENTS

^ Bromate maximum contaminant level is an RAA of 10 µg/L.
 ~ TDS values are estimated based on conductivity measurements.
 ~ THM values are for samples collected on 5/21/2012. Bromate values are for samples collected on 5/29/12. All other results are current.

MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, June 13, 2012

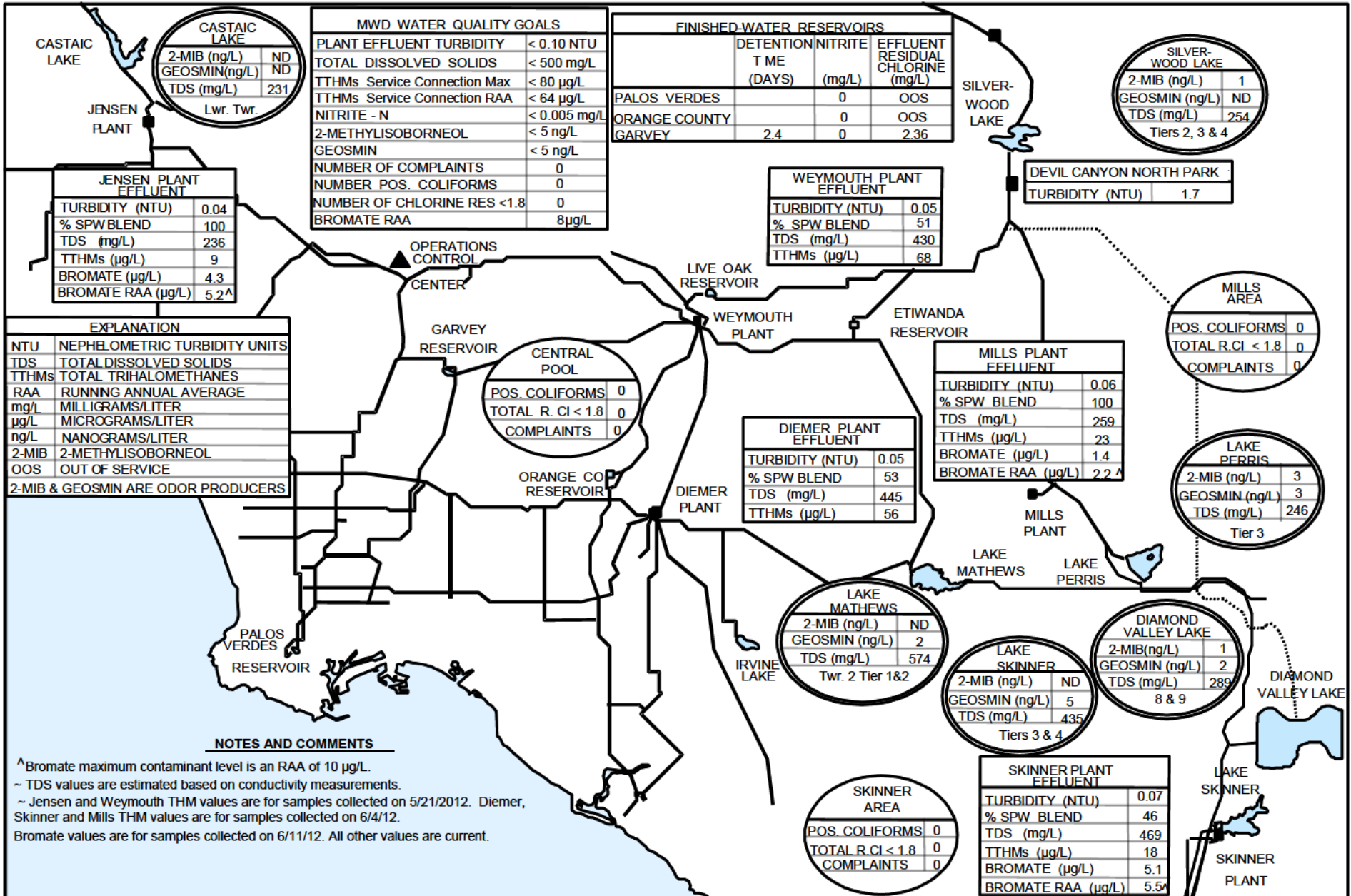
DTX-1124

Printed On: 6/13/2012 2:40:41 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, June 20, 2012

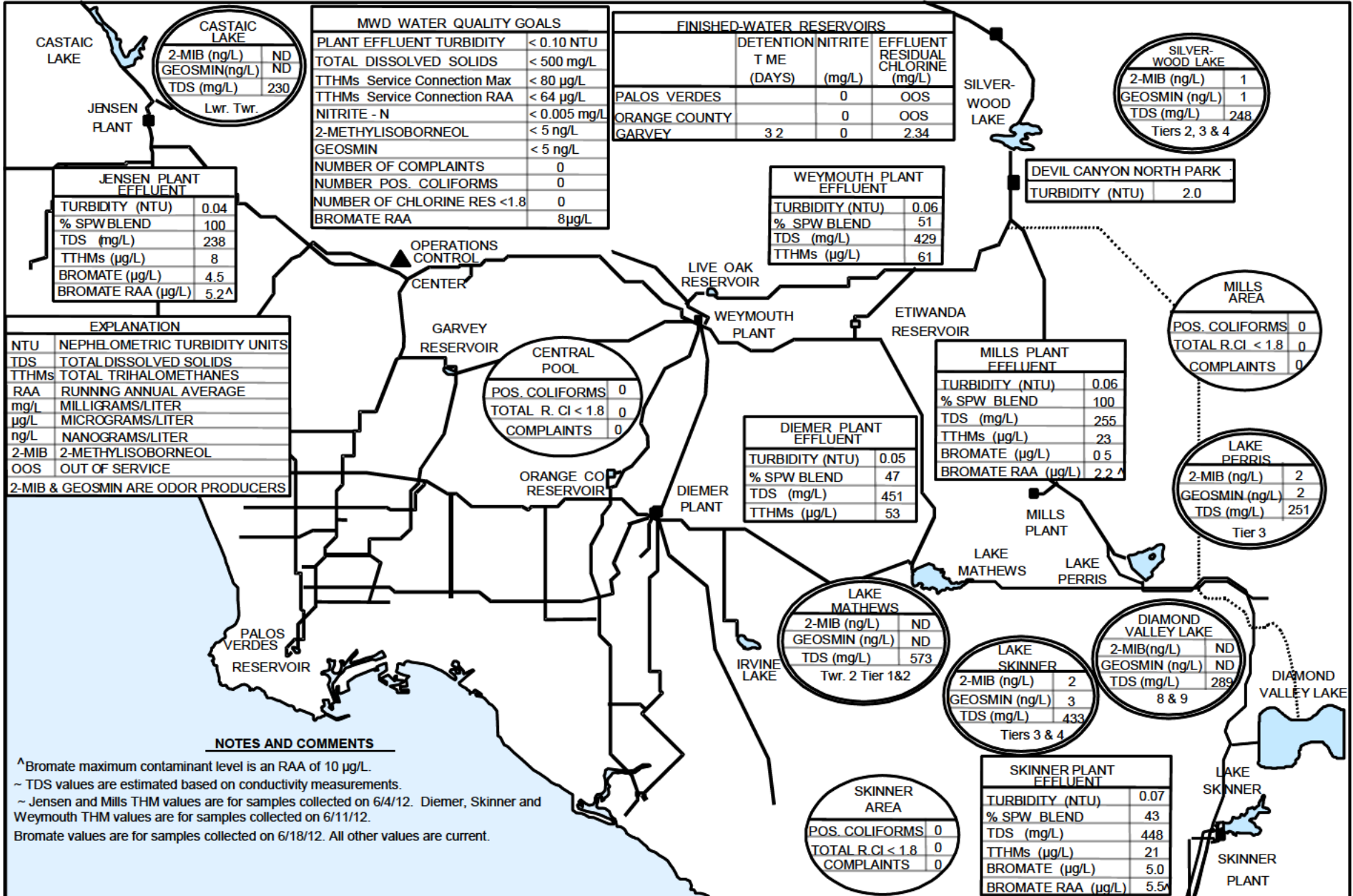
DTX-1124

Printed On: 6/20/2012 12:50:28 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, June 27, 2012

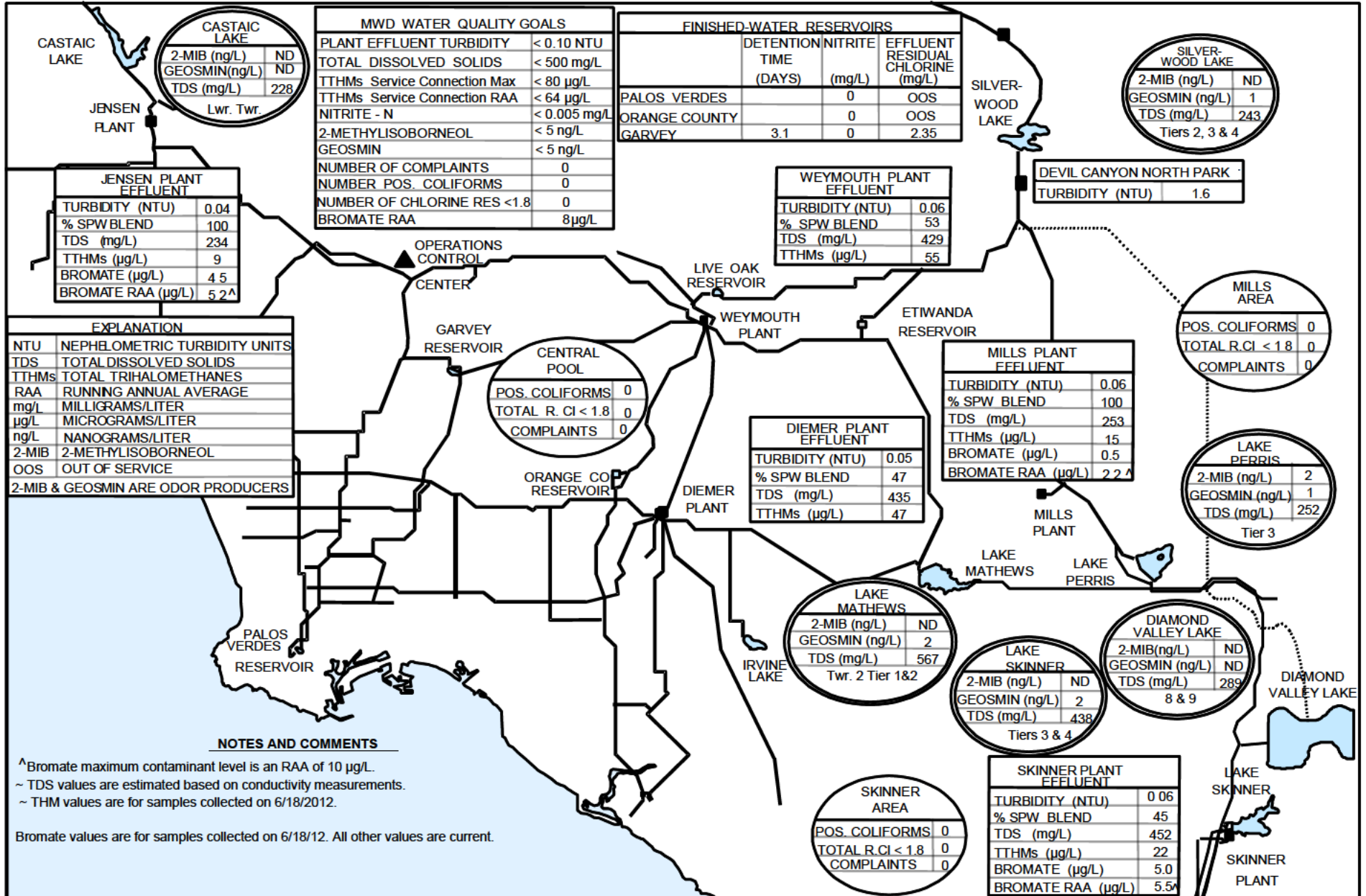
DTX-1124

Printed On: 6/27/2012 3:17:02 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, July 05, 2012

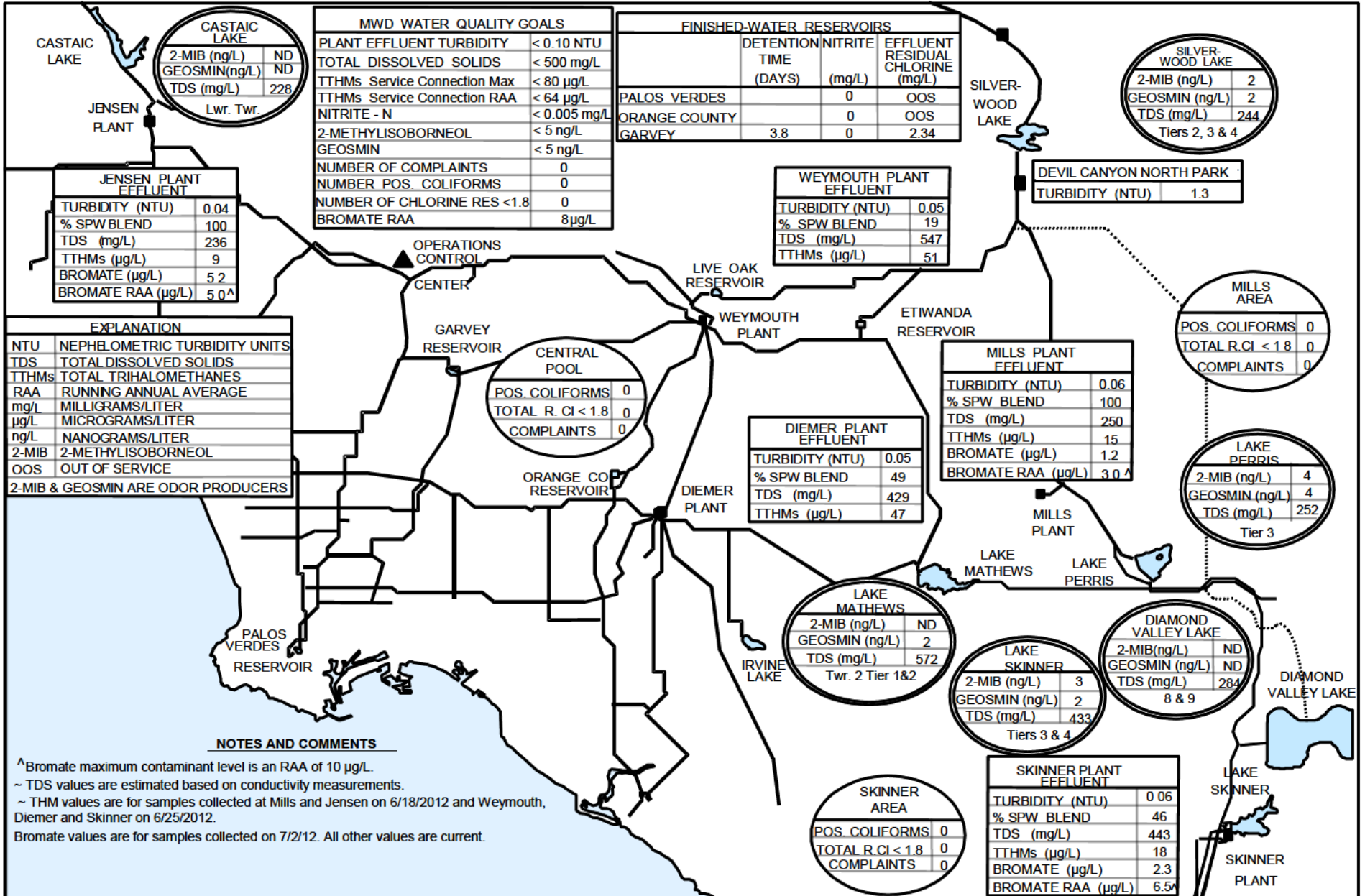
DTX-1124

Printed On: 7/5/2012 3:31:01 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



Weekly Water Quality System Status

Wednesday, July 11, 2012

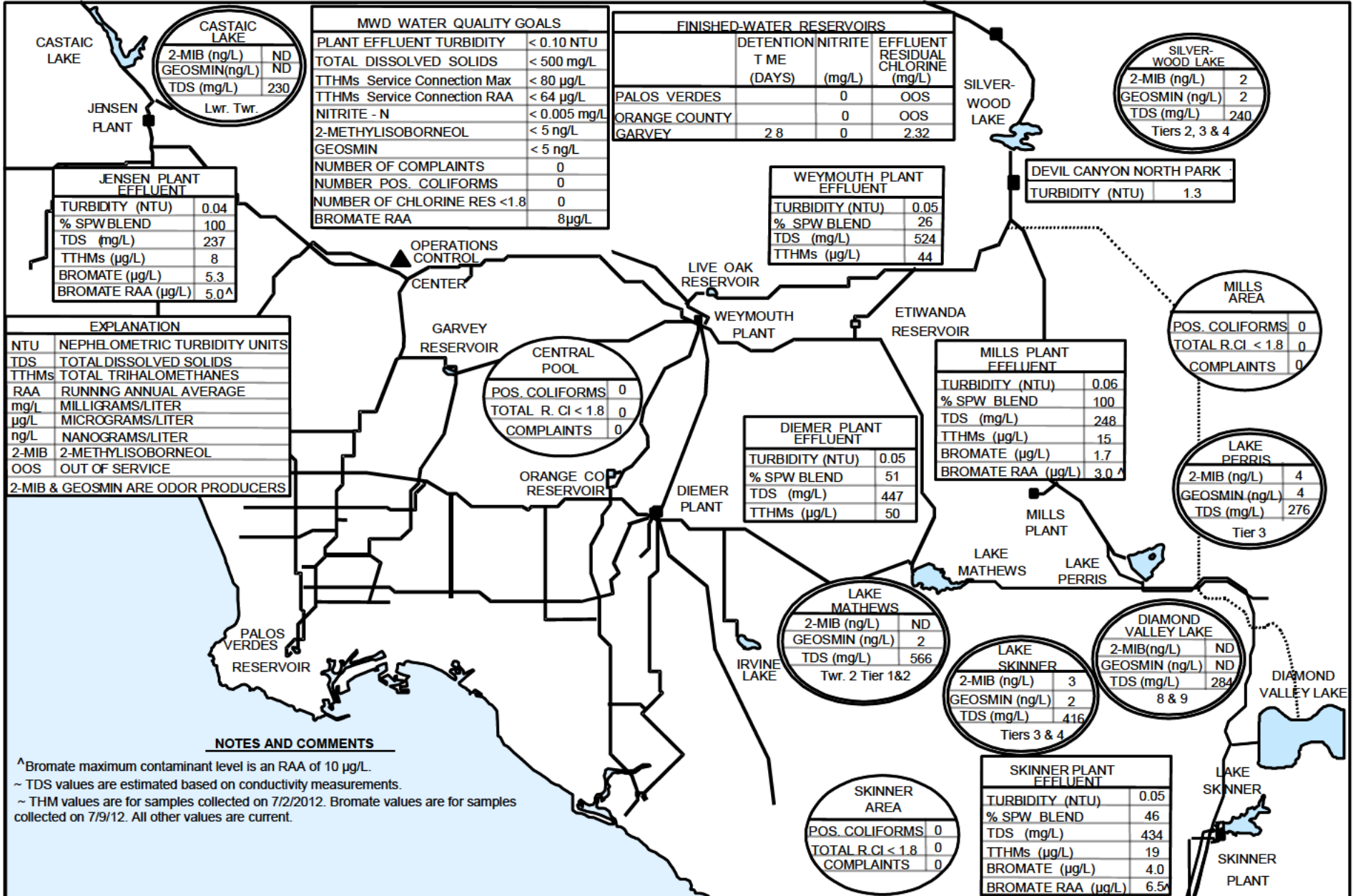
DTX-1124

Printed On: 7/11/2012 1:32:56 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, July 18, 2012

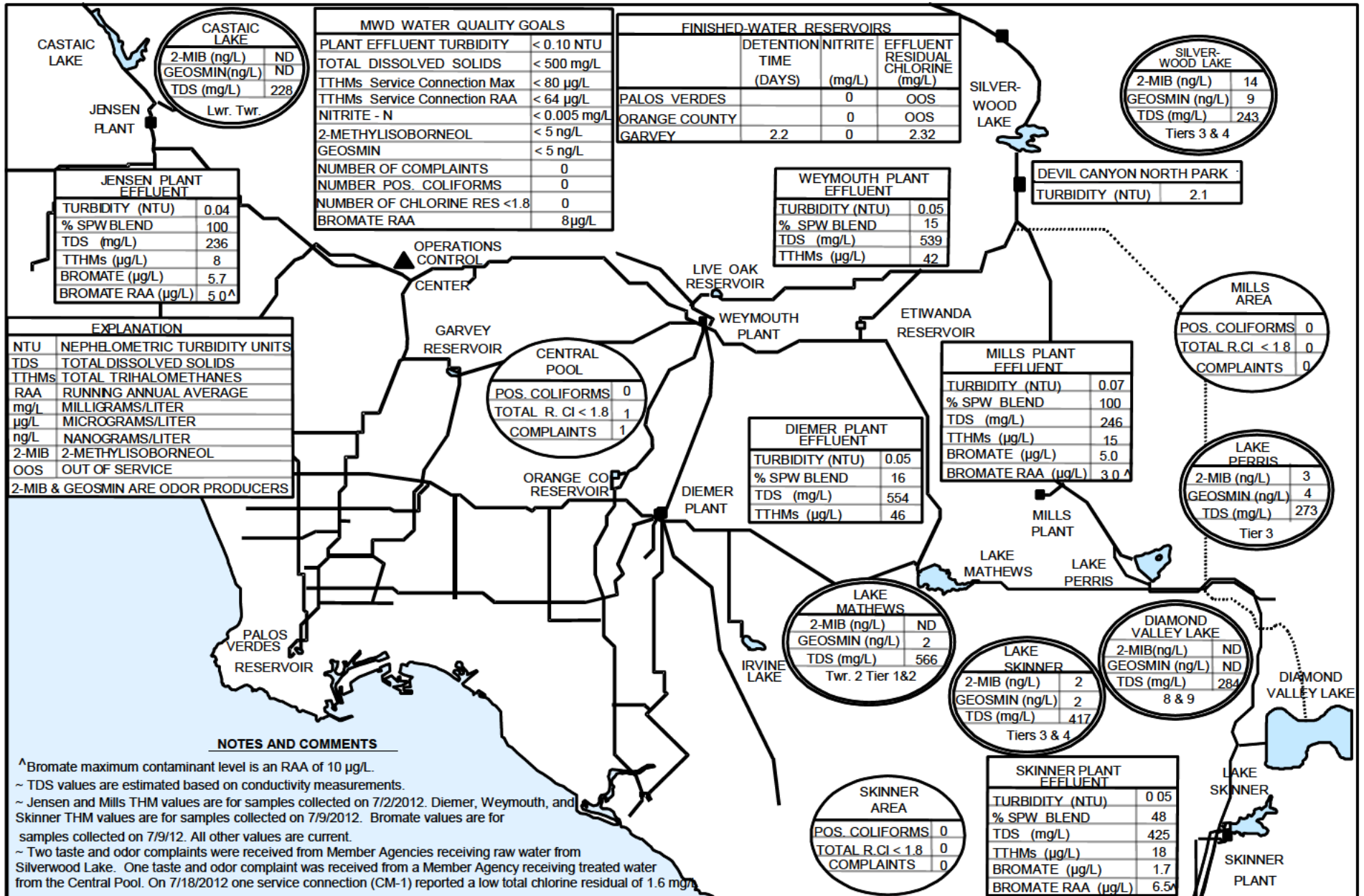
DTX-1124

Printed On: 7/18/2012 3:53:24 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, July 25, 2012

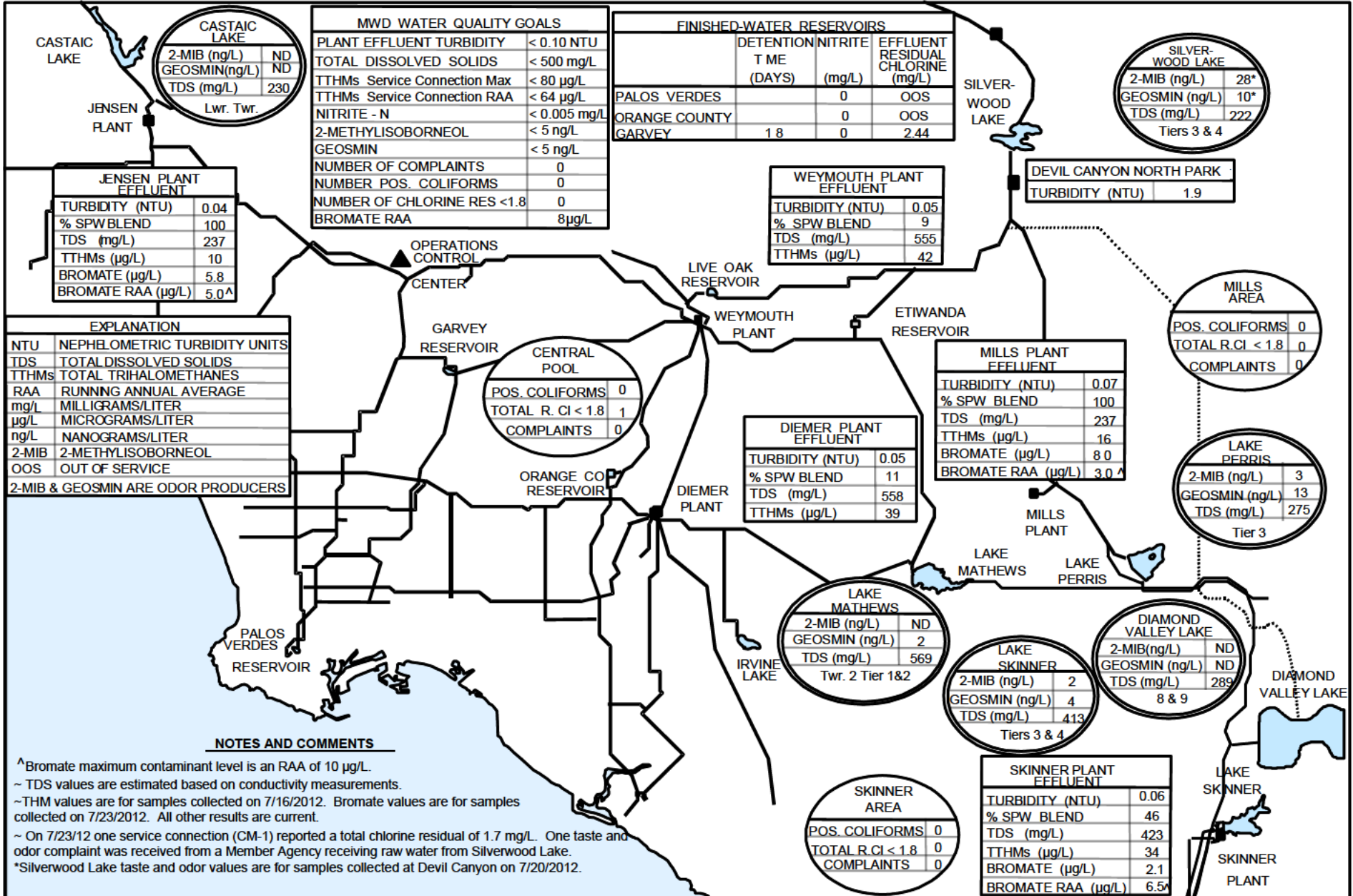
DTX-1124

Printed On: 7/25/2012 12:19:25 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, August 08, 2012

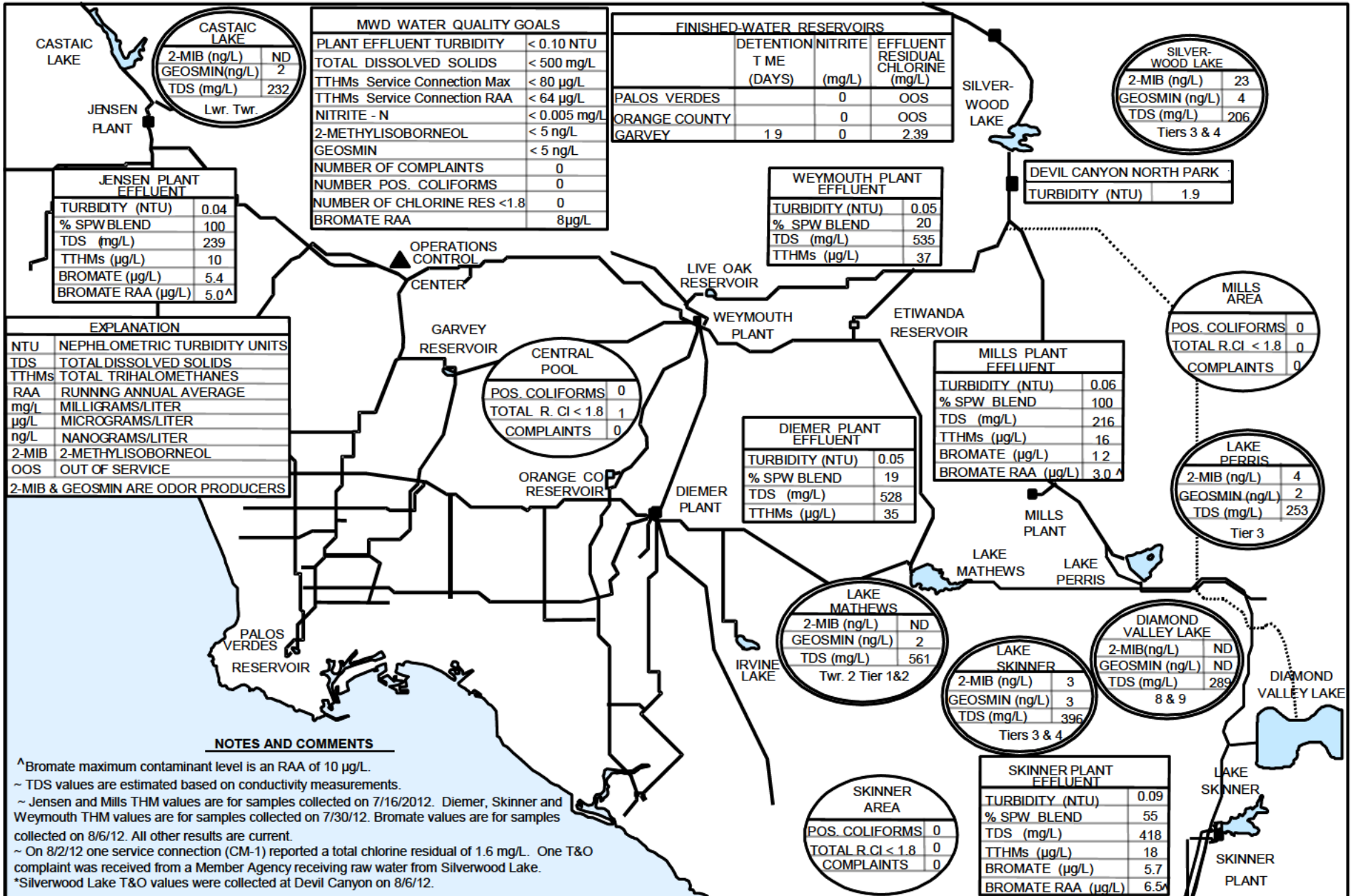
DTX-1124

Printed On: 8/8/2012 11:44:54 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, August 15, 2012

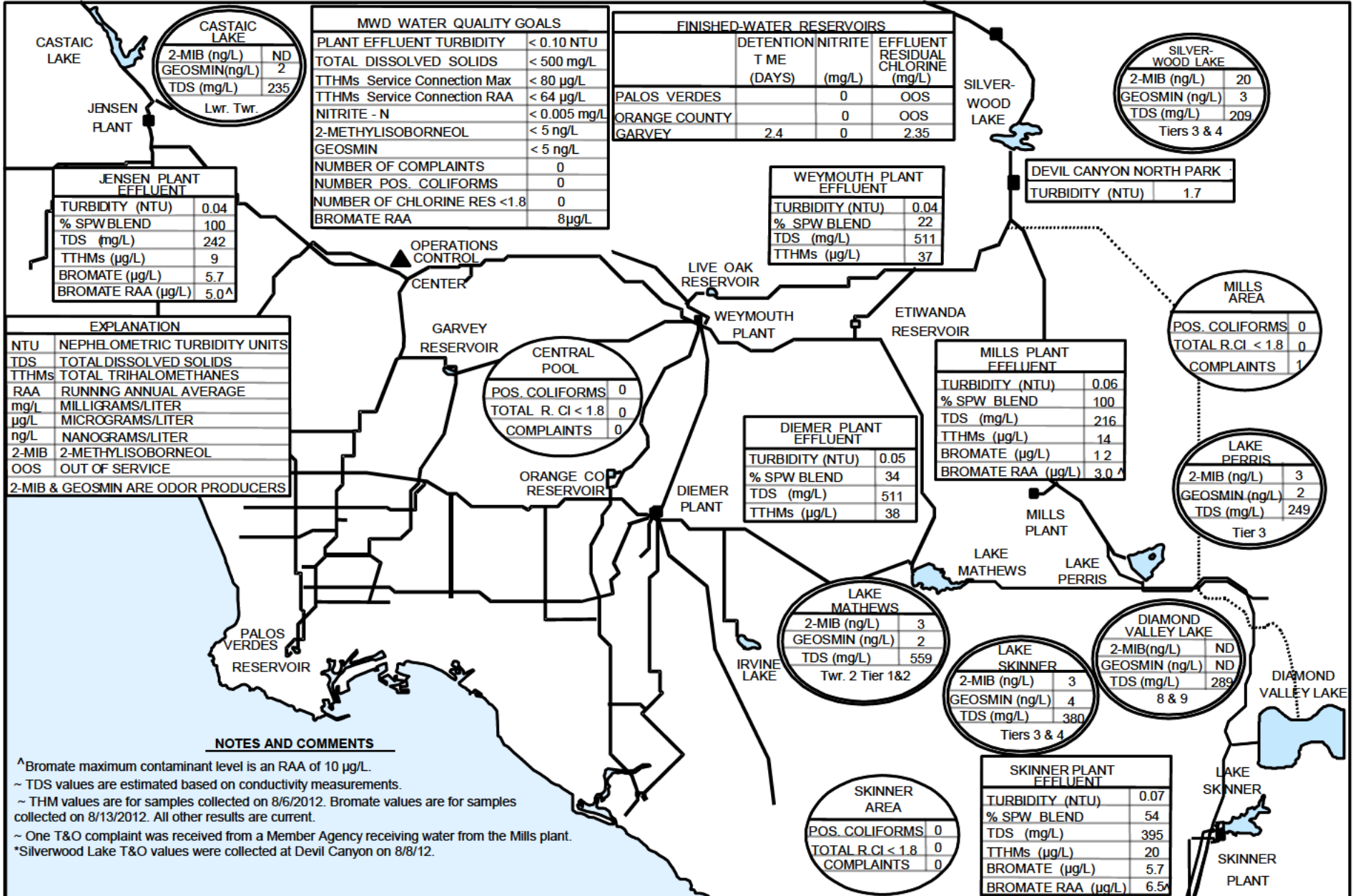
DTX-1124

Printed On: 8/15/2012 1:45:10 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, August 23, 2012

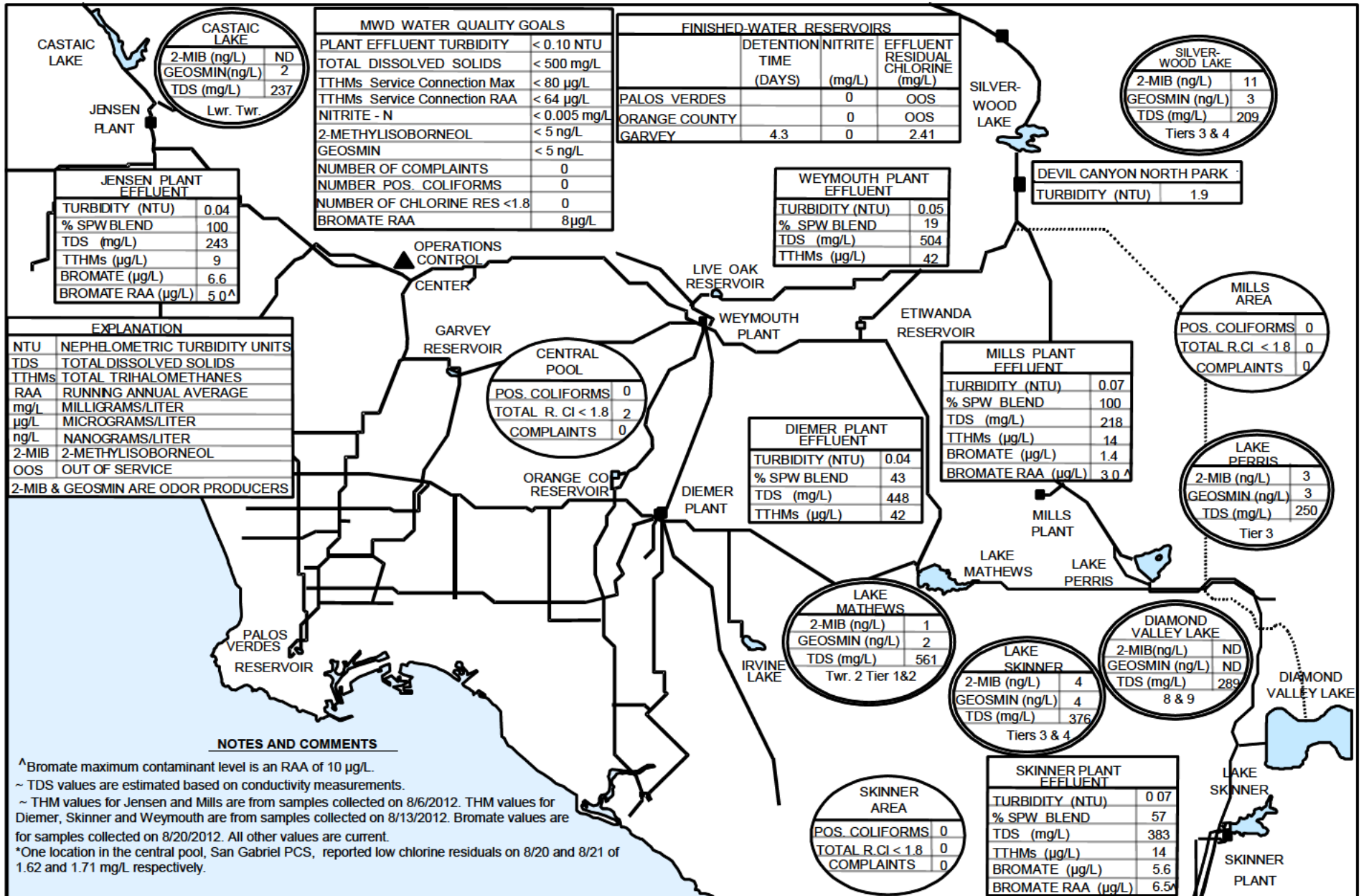
DTX-1124

Printed On: 8/23/2012 2:48:32 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, August 29, 2012

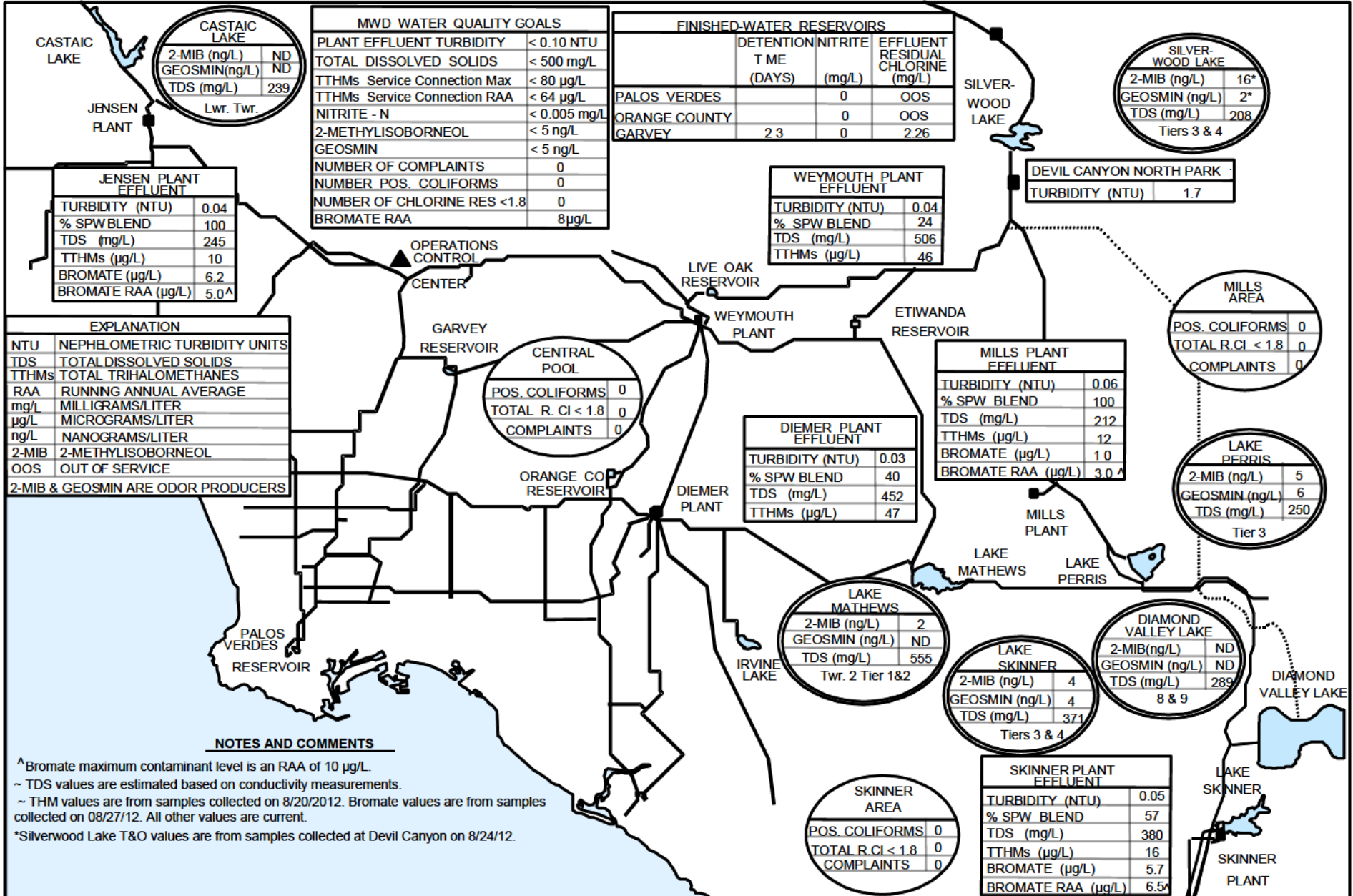
DTX-1124

Printed On: 8/29/2012 10:45:17 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, September 12, 2012

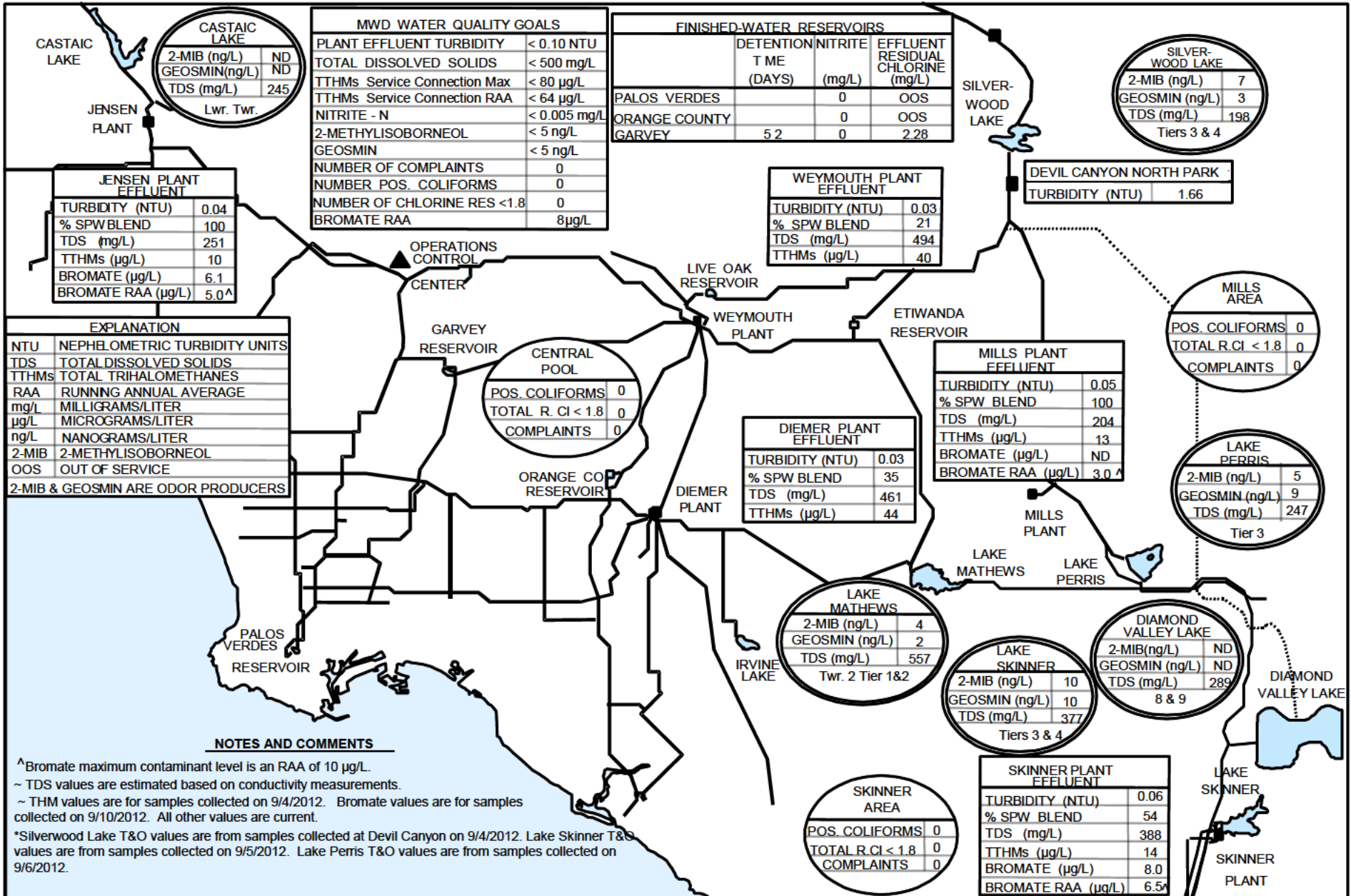
DTX-1124

Printed On: 9/12/2012 3:47:45 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, September 19, 2012

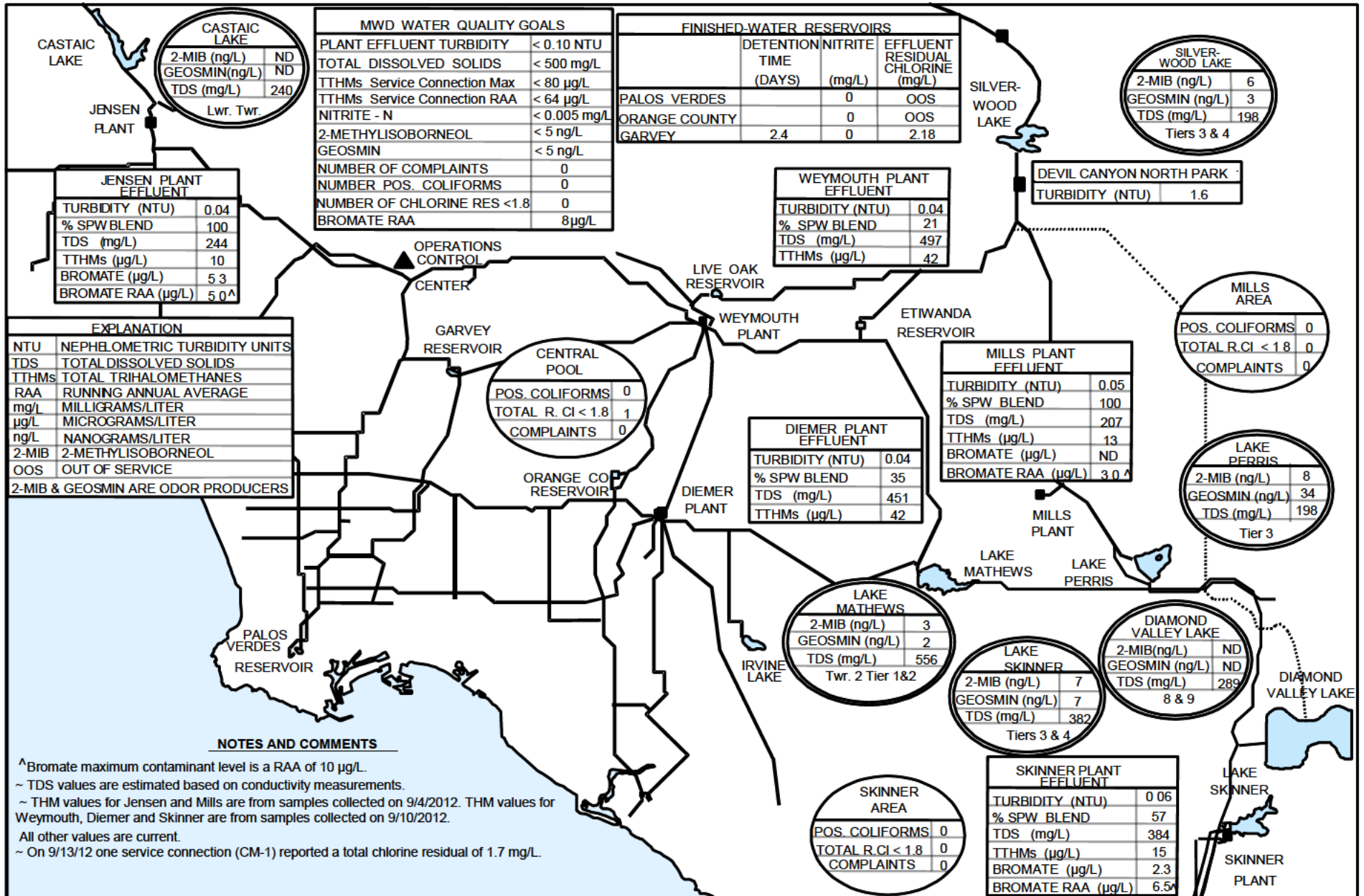
DTX-1124

Printed On: 9/19/2012 2:57:31 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, September 26, 2012

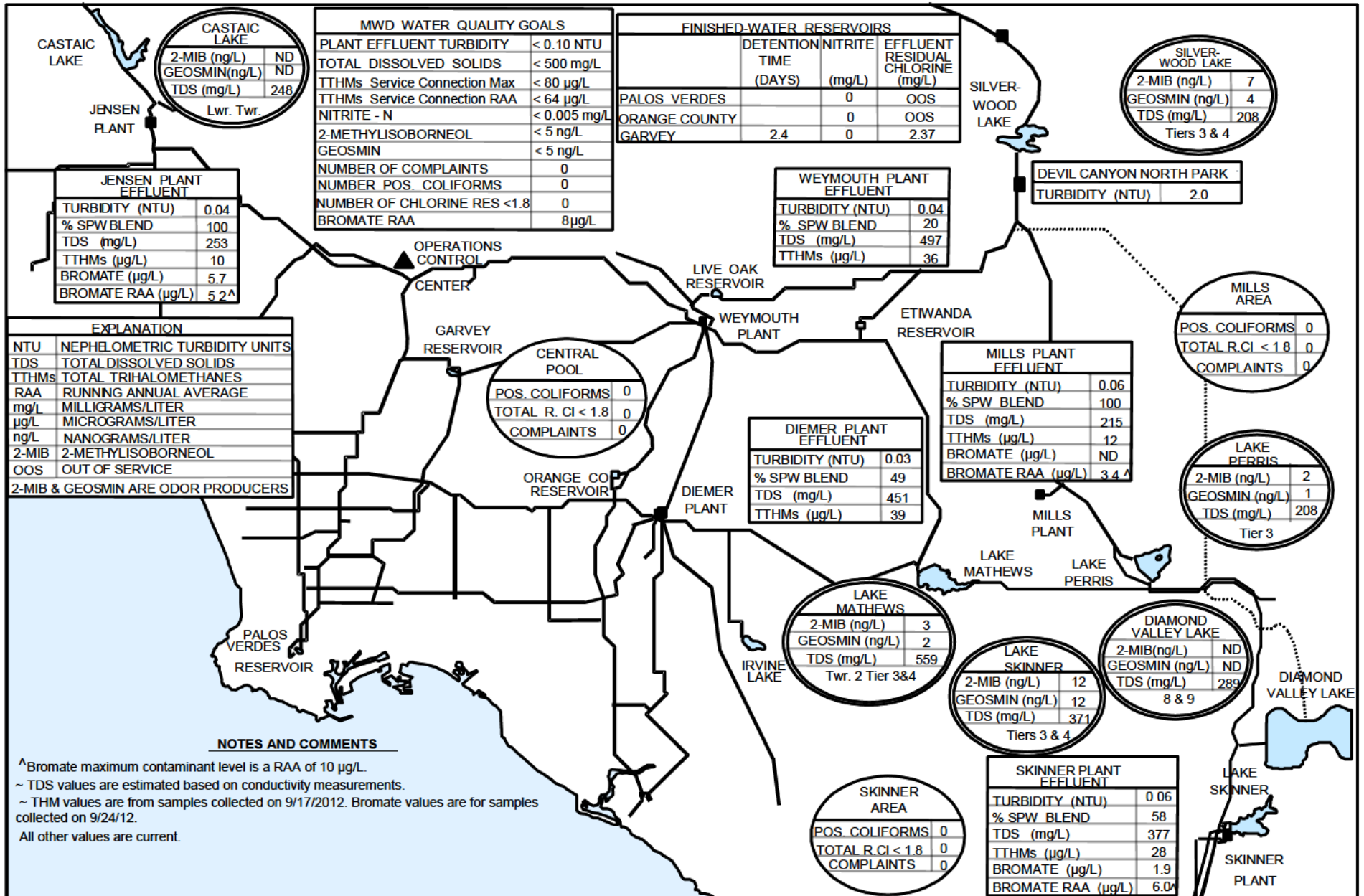
DTX-1124

Printed On: 9/26/2012 12:51:10 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 3, 2012

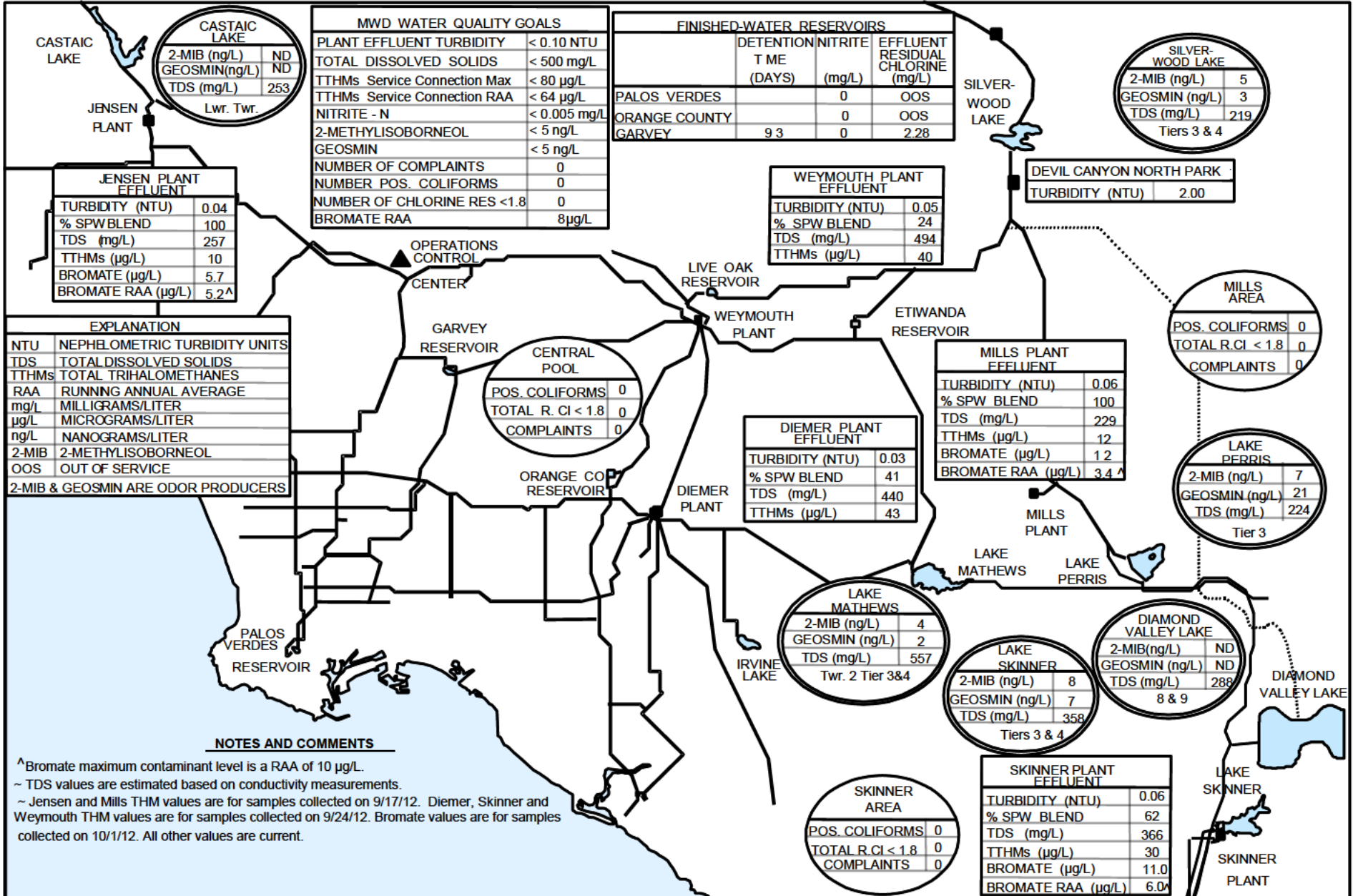
DTX-1124

Printed On: 10/3/2012 12:31:55 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 10, 2012

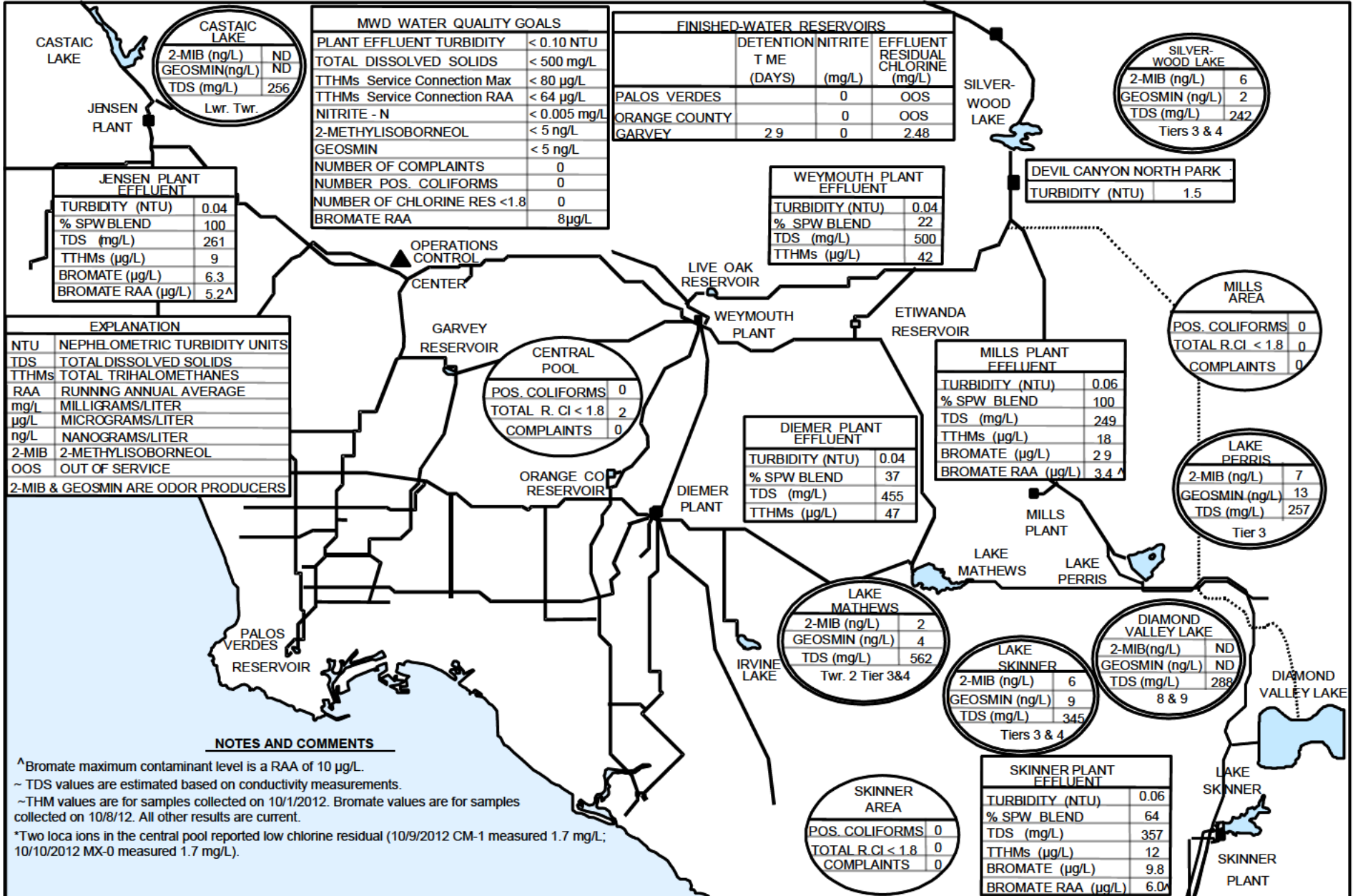
DTX-1124

Printed On: 10/10/2012 12:42:09 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 17, 2012

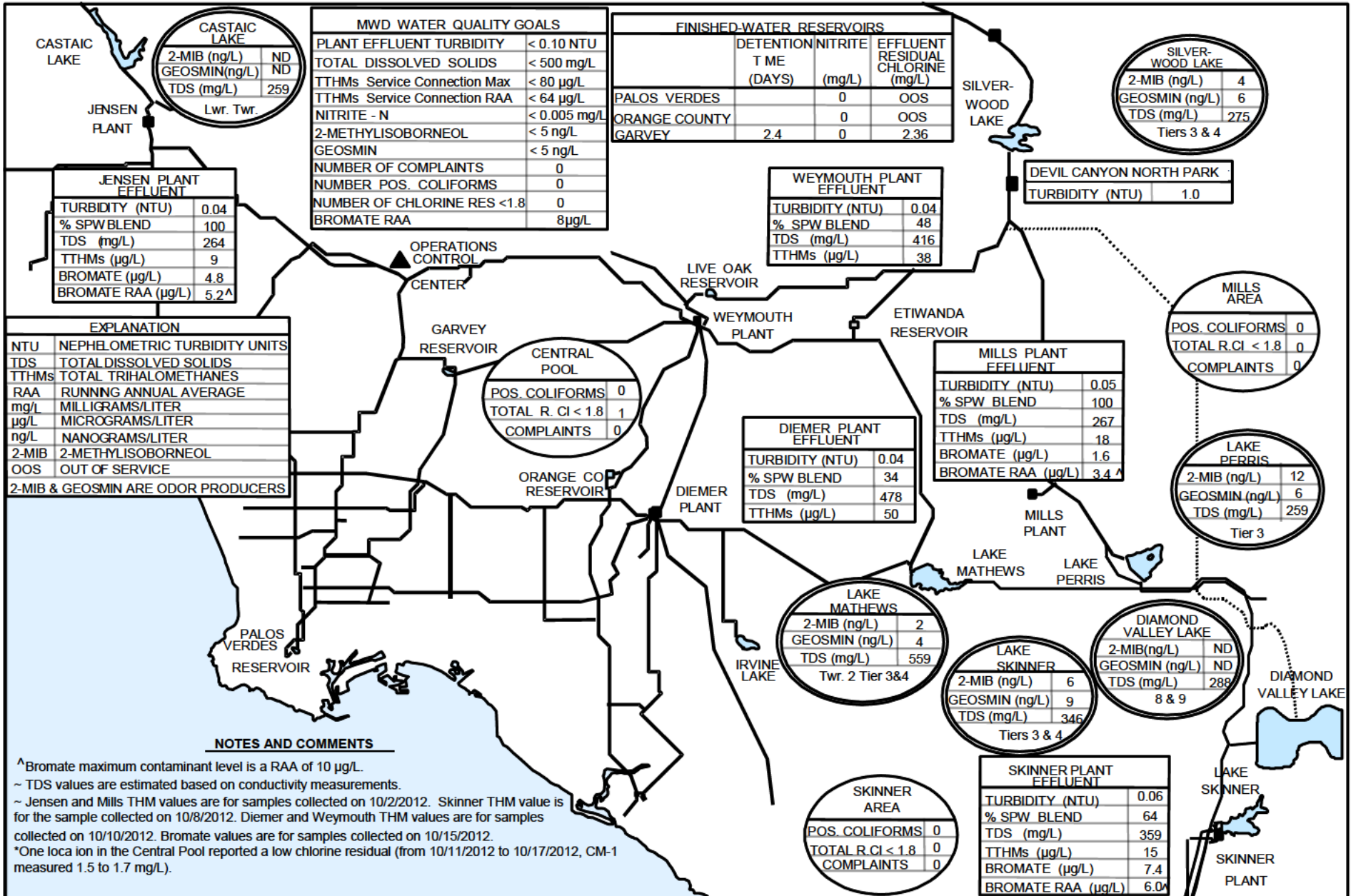
DTX-1124

Printed On: 10/17/2012 3:25:01 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 24, 2012

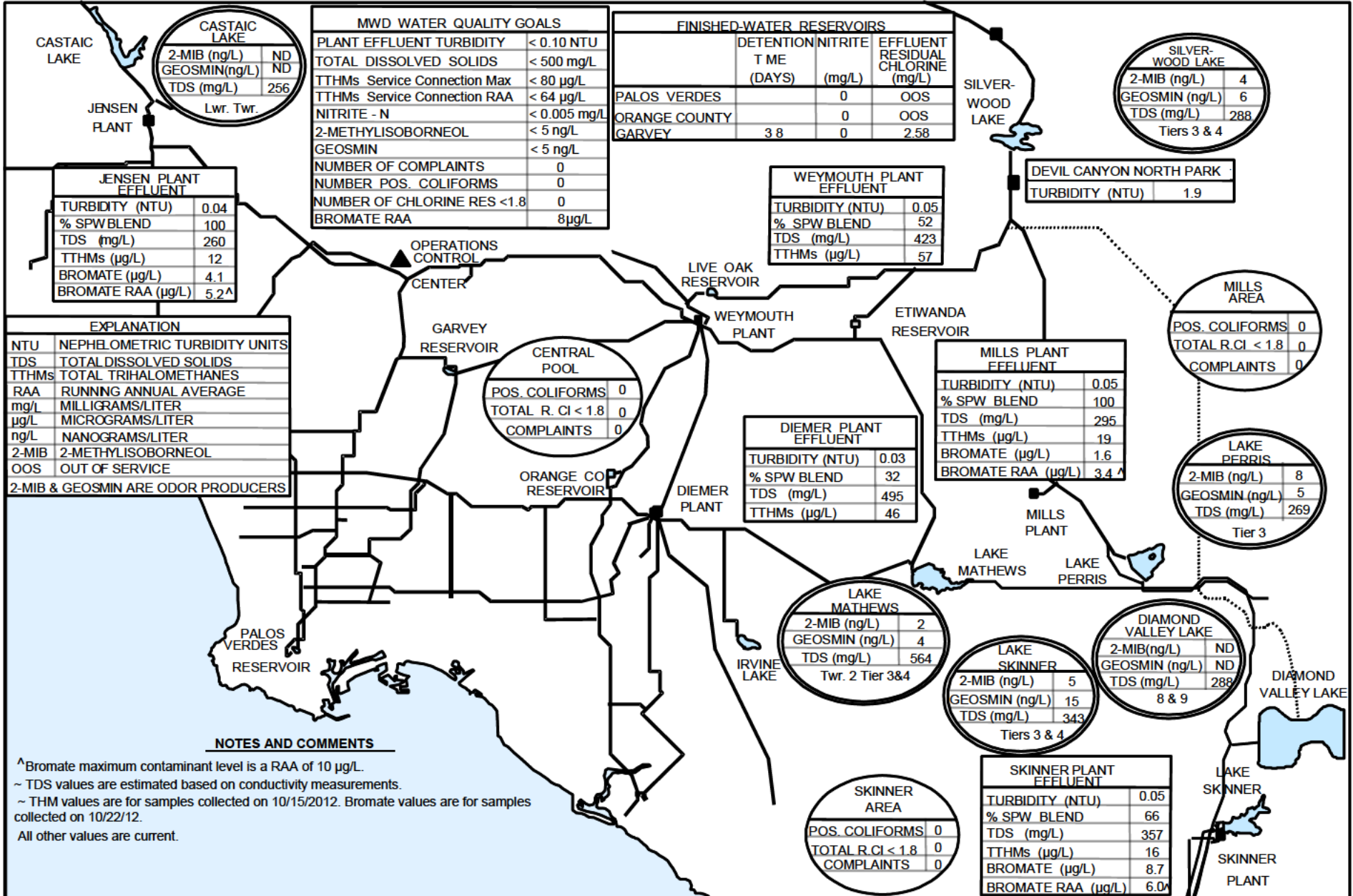
DTX-1124

Printed On: 10/24/2012 11:29:48 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 31, 2012

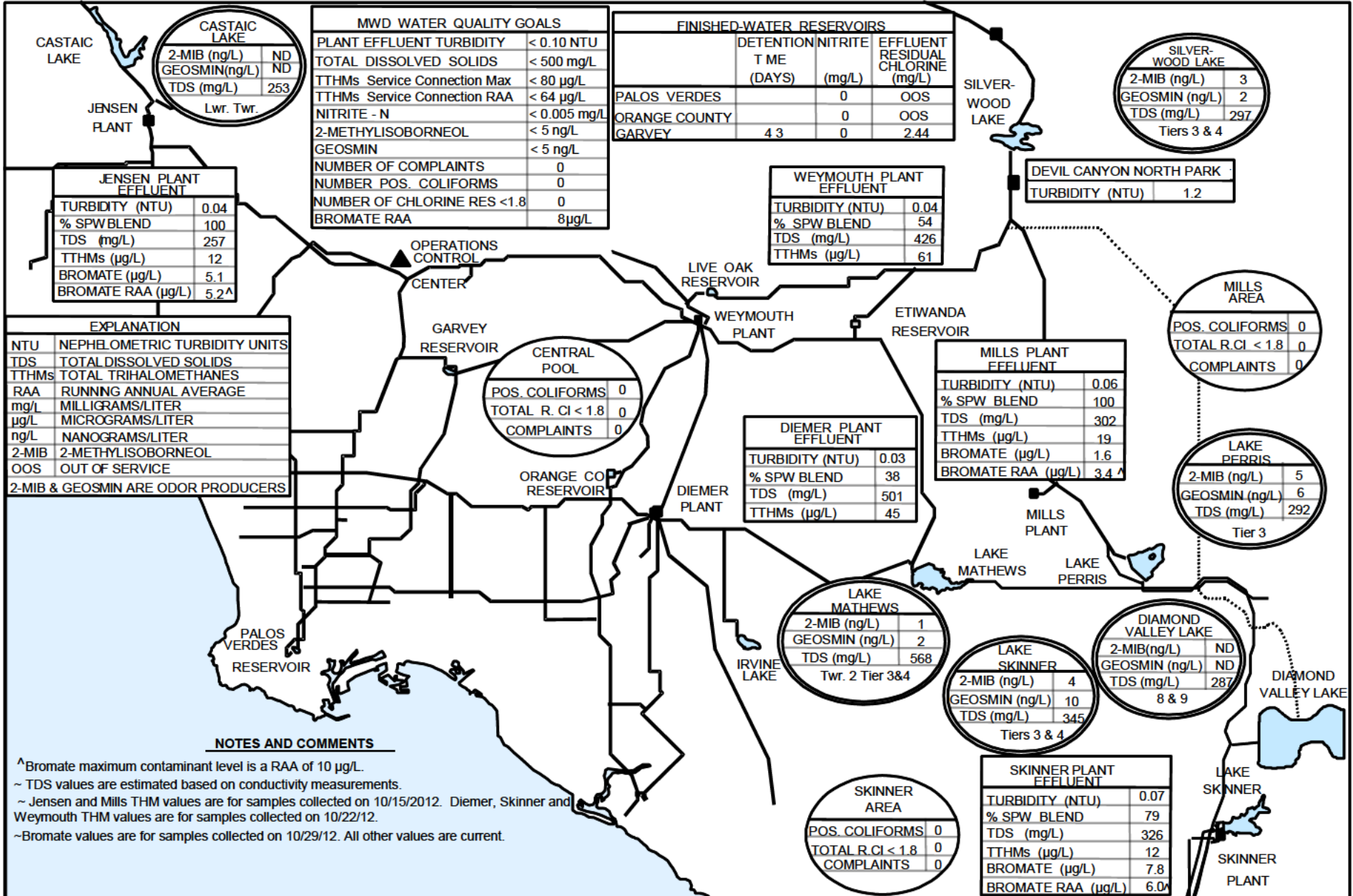
DTX-1124

Printed On: 10/31/2012 12:57:12 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, November 07, 2012

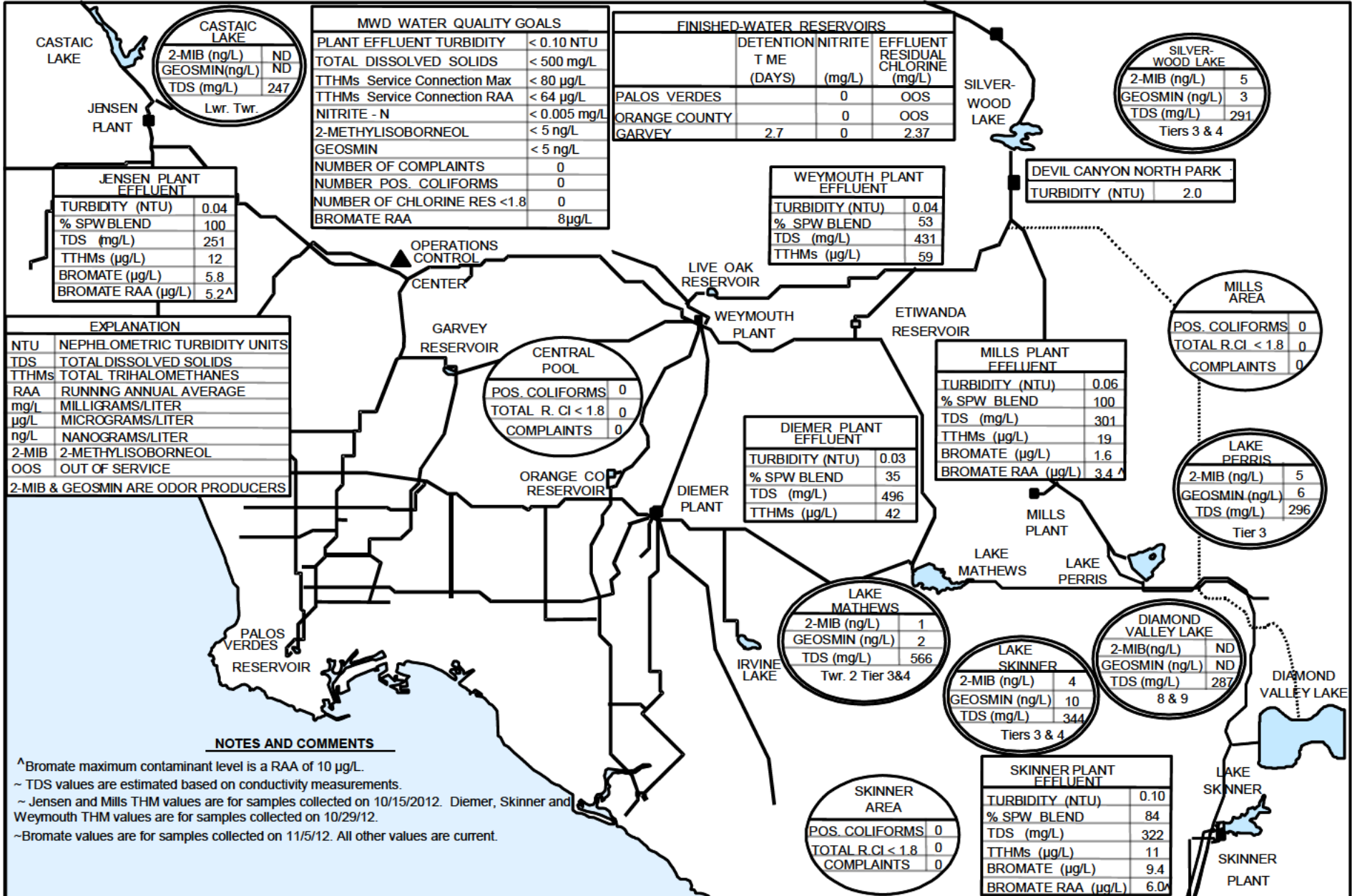
DTX-1124

Printed On: 11/7/2012 2:48:08 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, November 14, 2012

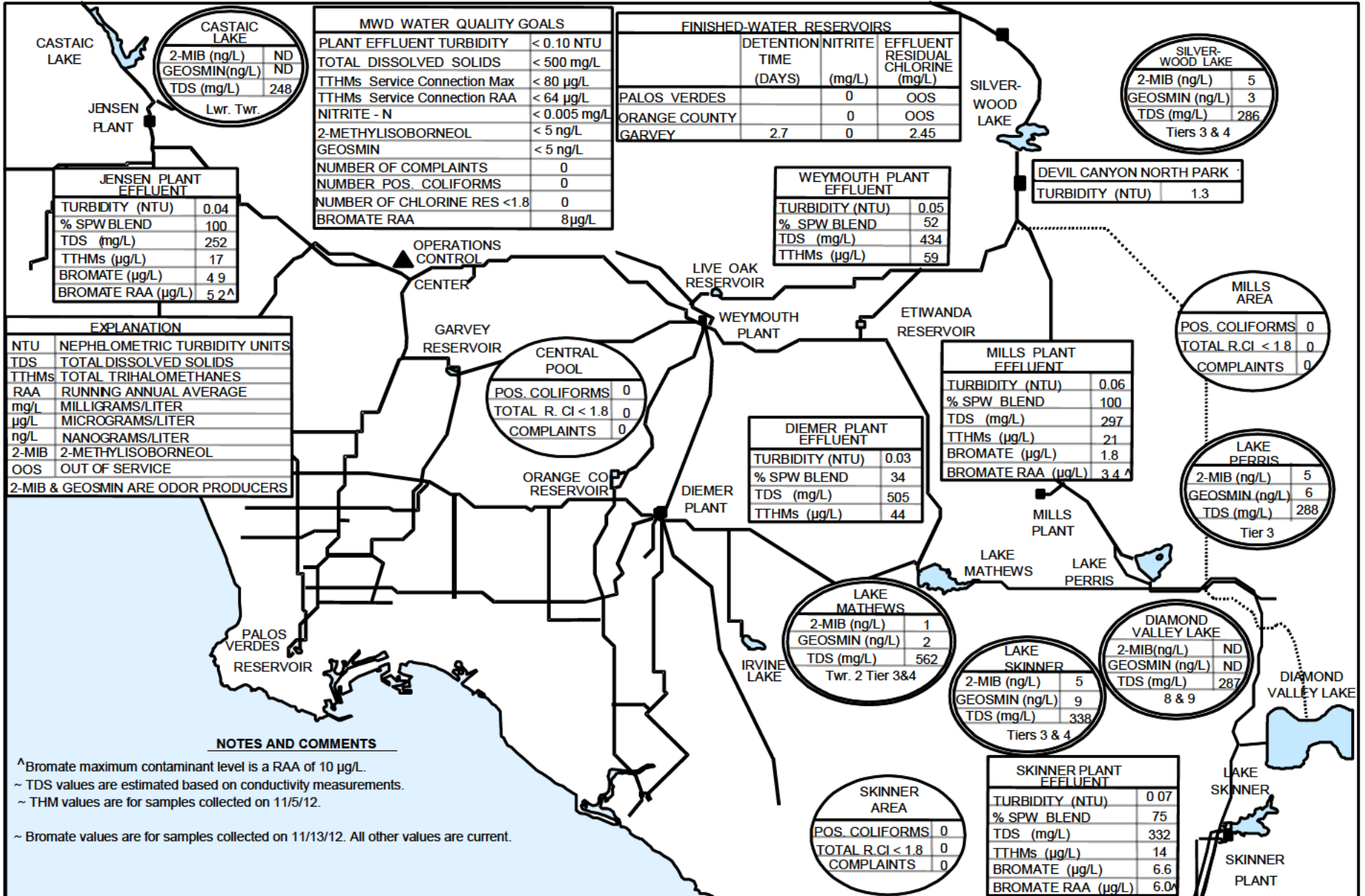
DTX-1124

Printed On: 11/14/2012 2:51:00 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, November 21, 2012

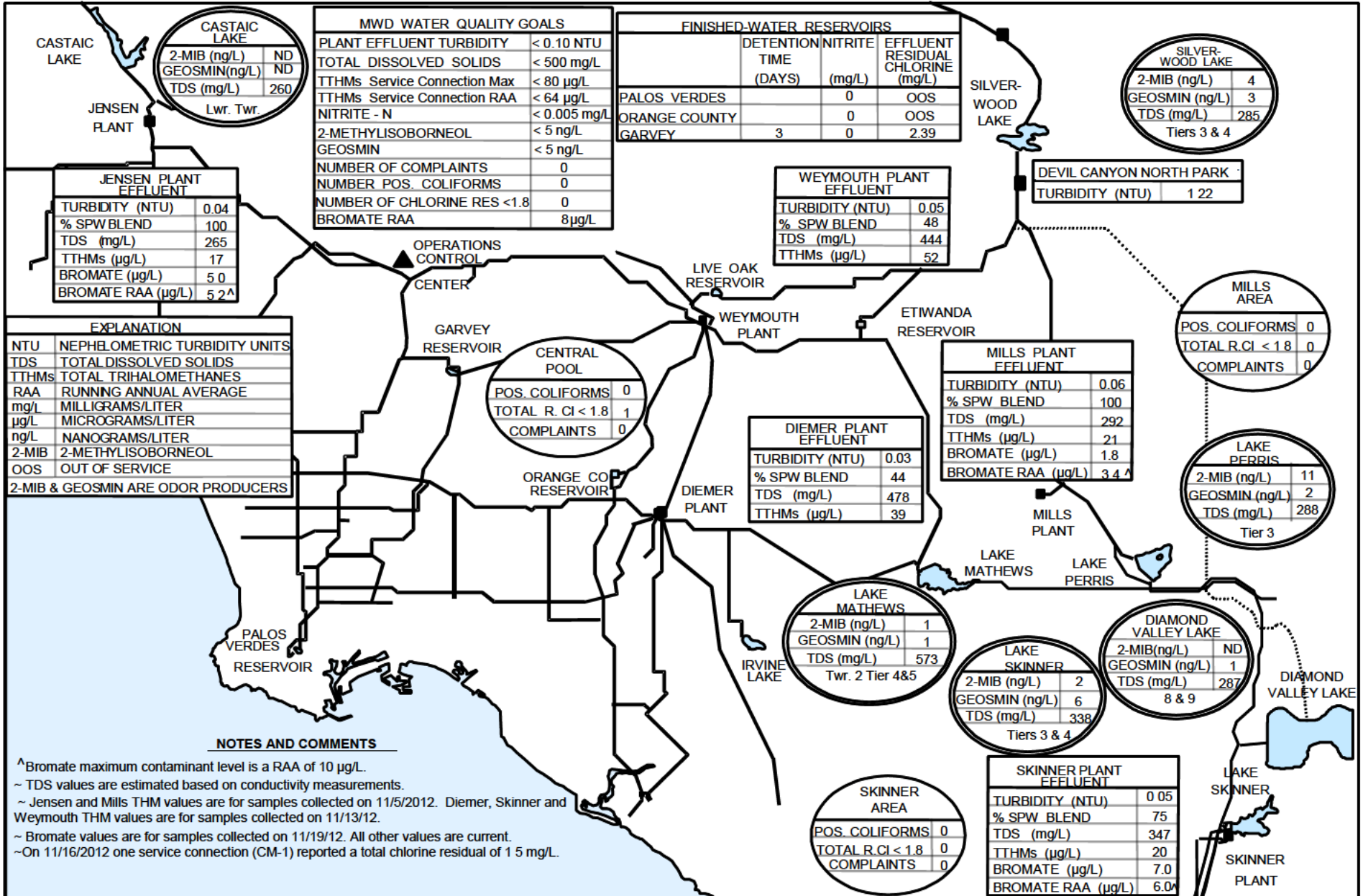
DTX-1124

Printed On: 11/21/2012 10:13:02 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, November 28, 2012

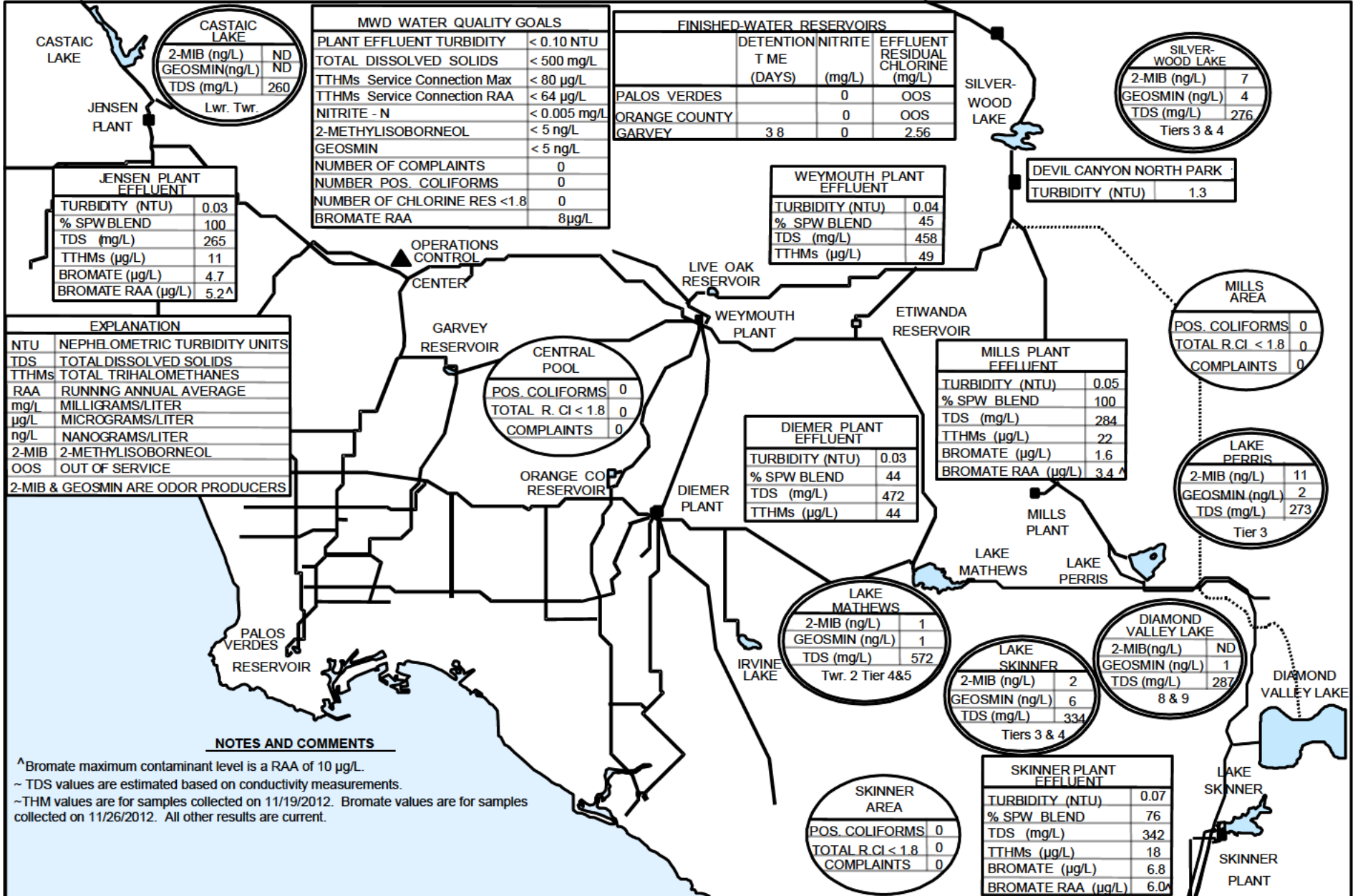
DTX-1124

Printed On: 11/28/2012 10:13:03 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, December 05, 2012

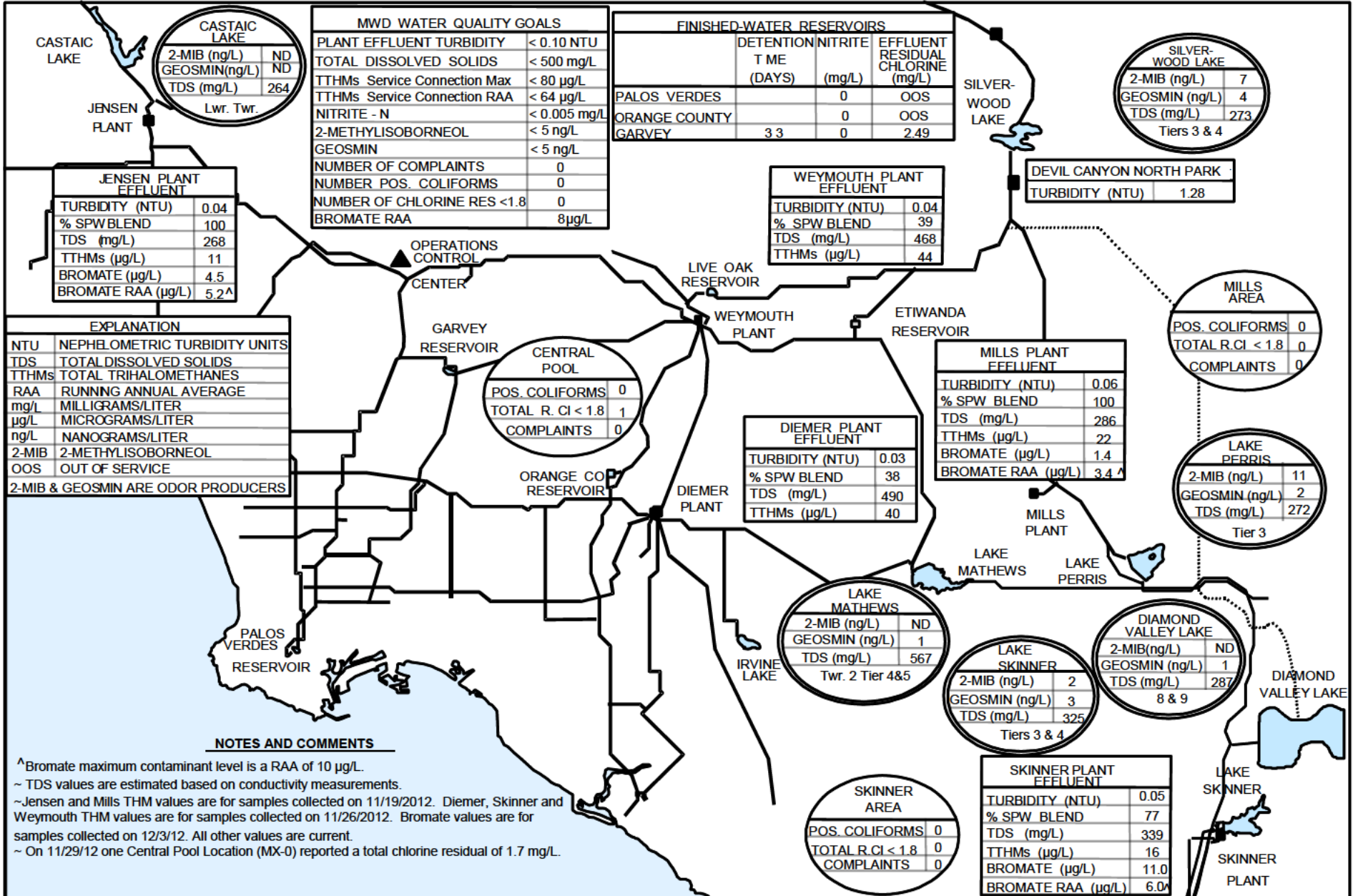
DTX-1124

Printed On: 12/5/2012 8:48:50 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, December 12, 2012

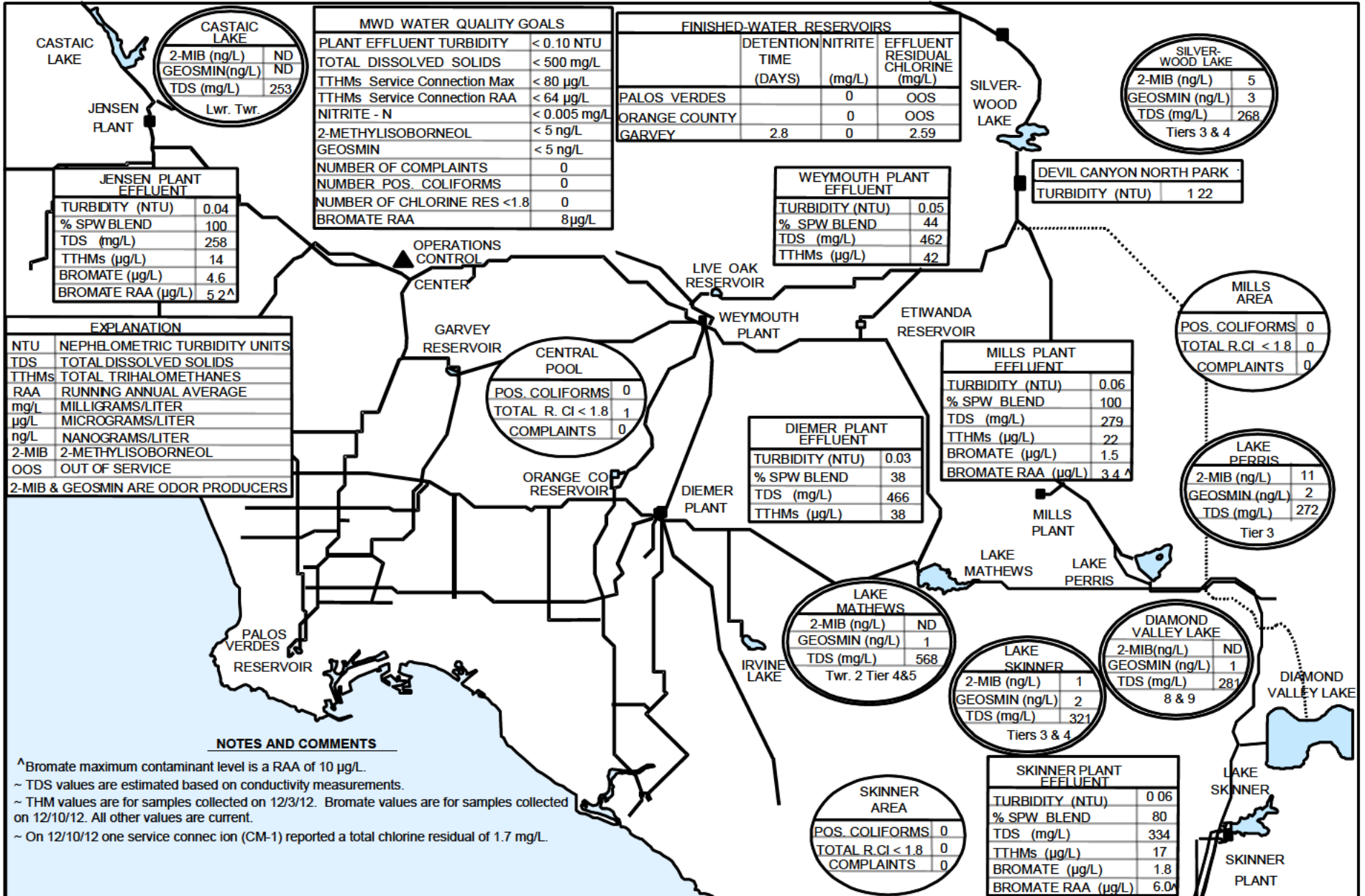
DTX-1124

Printed On: 12/12/2012 2:26:18 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, December 19, 2012

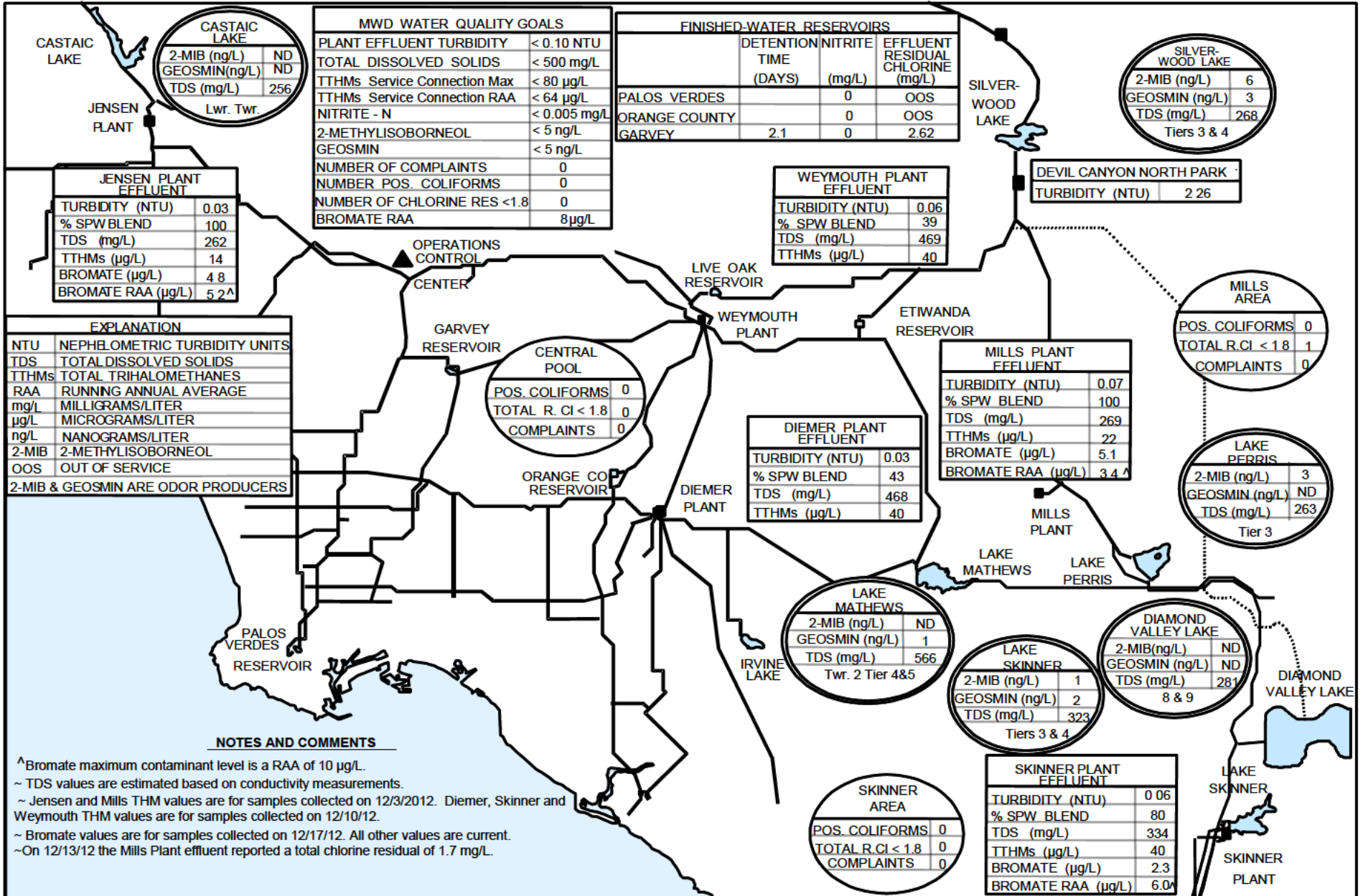
DTX-1124

Printed On: 12/19/2012 10:06:05 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, December 26, 2012

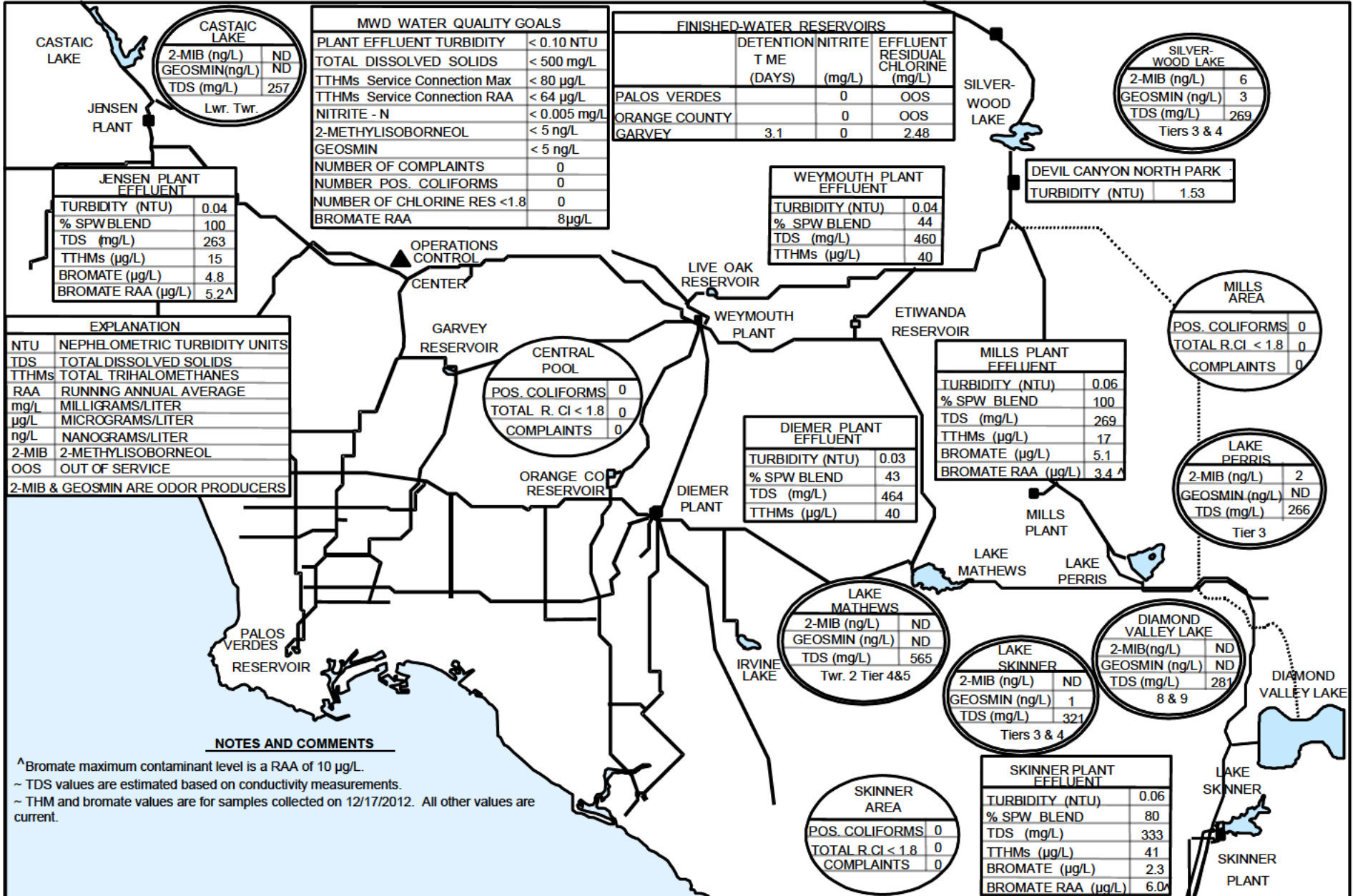
DTX-1124

Printed On: 12/26/2012 4:37:26 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
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WEST POWER MARKETS

Dailies end mostly higher; terms gain ground

Western dailies were mostly up Wednesday with higher natural gas prices and increased demand expected in California. Terms moved up, and the NYMEX March natural gas futures contract settled 7.7 cents higher Wednesday, at \$3.258/MMBtu.

In the Northwest, Mid-Columbia day-ahead on-peak for delivery on Thursday rose more than \$1 to trade between \$25 and \$26.50/MWh on IntercontinentalExchange. Mid-C day-ahead off-peak was up around \$2, trading between \$21.50 and \$24/MWh. Portland forecasts for Thursday showed highs in the upper 40s, compared with the low 40s Wednesday. Lows near 40 on Wednesday were expected to drop to the high 30s Thursday.

The Bonneville Power Administration's wind at 11 a.m. PST Wednesday was 4,200 MW and its hydropower was at 9,155 MW.

In California, SP15 next-day on-peak climbed about \$2.75 to trade between \$46.25 and \$47/MWh. SP15 day-ahead off-peak was roughly \$3.50 higher, trading between \$34 and \$36/MWh. NP15 day-ahead on-peak was more than 50 cents higher to trade between \$38.50 and \$38.75/MWh. NP15 day-ahead off-peak increased about 50 cents to \$31.25/MWh. Also in California, Sacramento forecasts had high 60s for Thursday, up from the mid-60s Wednesday, while lows were expected to be around 40. Burbank highs for Thursday were forecast in the low 70s while lows were steady above 50.

The California Independent System Operator projected peak demand to hit 29,972 MW Thursday, up from 29,894 MW expected Wednesday. Wind was about 300 MW at 11 a.m. PST on Wednesday while renewables were at 2,041 MW.

In the desert Southwest, Palo Verde next-day on-peak was about flat, trading between \$30.25 and \$32.25/MWh. Palo Verde day-ahead off-peak was also flat, trading between \$23.50 and \$24.50/MWh.

Phoenix forecasts for Thursday had highs near 70, up from about 60 the day before, and lows moving to the low 40s from the from mid-40s.

Natural gas prices were up in the Rockies and California. Opal jumped 11.5 cents to \$3.280/MMBtu, PG&E city-gate rose 6.3 cents to \$3.623/MMBtu, and SoCal city-gate climbed 6.5 cents to \$3.570/MMBtu.

In the Northwest term markets, Mid-C on-peak February surged up 65 cents with bids at \$29.40 and offers at \$29.75/MWh on ICE around 2:30 p.m. EST. March rose 25 cents to about \$28.75/MWh, and the second quarter climbed 45 cents to about \$24.10/MWh. In California, SP15 on-peak February financial terms rose 75 cents with bids at \$47.50 and offers at \$48/MWh. March rose 75 cents to about \$46.25/MWh, and Q2 moved up 95 cents to about \$46.10/MWh. NP15 February rose 25 cents to about \$41.25/MWh. Palo Verde February rose 25 cents to about \$32/MWh, March was up 50 cents to about \$31.75/MWh, and Q2 advanced 80 cents to about \$33.90/MWh.

Day-ahead markets for delivery Jan 31(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	29.18	1.20	29.00-29.50	14	475	31.38
Mid-C	26.18	1.67	25.50-27.00	142	3,925	28.97
Palo Verde	31.23	0.00	30.25-32.25	32	875	31.50
Mead	31.50	-0.25	31.50-31.50	N.A.	N.A.	32.06
Mona	28.00	1.00	28.00-28.00	N.A.	N.A.	31.03
Four Corners	29.00	-0.50	29.00-29.00	N.A.	N.A.	30.87
NP15	39.75	1.75	39.75-39.75	N.A.	N.A.	39.89
SP15	46.75	3.00	46.75-46.75	N.A.	N.A.	46.15
Off-Peak						
COB	25.50	1.50	25.50-25.50	N.A.	N.A.	27.12
Mid-C	23.67	2.35	22.50-24.50	101	2,675	25.35
Palo Verde	23.84	-0.08	23.70-24.50	11	300	25.49
Mead	24.75	-0.50	24.75-24.75	N.A.	N.A.	26.88
Mona	23.00	1.00	23.00-23.00	N.A.	N.A.	24.69
Four Corners	23.50	0.50	23.50-23.50	N.A.	N.A.	25.56
NP15	32.50	1.75	32.50-32.50	N.A.	N.A.	33.62
SP15	35.00	1.50	35.00-35.00	N.A.	N.A.	38.20

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-week	01/30	27.25-28.25
Bal-month	01/29	23.00-24.00
Bal-month	01/28	26.25-27.25
Bal-month	01/24	29.00-30.00
Bal-month (off-peak)	01/25	25.25-26.25
Bal-month (off-peak)	01/24	25.75-26.75
SP15		
Bal-month	01/24	48.00-49.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Alamitos-3/AES	332	g	Calif.	PMO	Unk	01/21/13
Colgate-2/PCWA	176	h	Calif.	PMO	Unk	08/26/12
Encina-2/NRG	104	g	Calif.	PMO	Unk	01/06/13
Encina-3/NRG	110	g	Calif.	PMO	Unk	01/21/13
Etiwanda-3/RRI	320	g	Calif.	PMO	Unk	01/27/13
Harbor Cogen/Southwest	109	g	Calif.	PMO	Unk	01/13/13
Helms-2/PG&E	407	h	Calif.	PMO	Unk	12/02/12
Huntington-3/AES	225	g	Calif.	PMO	Unk	11/01/12
Huntington-4/AES	215	g	Calif.	PMO	Unk	11/01/12
La Paloma-3/PG&E	256	g	Calif.	PMO	Unk	01/10/13
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/13
Luz Solar/Luz Solar	175	s	Calif.	MO	Unk	01/21/13
Mandalay-2/RRI	216	g	Calif.	PMO	Unk	01/28/13
Mexicali/Sempra	180	g	Calif.	PMO	Unk	01/21/13
Ormond Beach-2/RRI	741	g	Calif.	PMO	Unk	01/28/13
Pittsburg-5/NRG	312	g	Calif.	PMO	Unk	01/28/13
Redondo-7/AES	506	g	Calif.	PMO	Unk	01/27/13
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Sentinel/CPV	728	g	Calif.	MO	Unk	01/17/13
Sunrise/Edison	590	g	Calif.	PMO	Unk	01/23/13

WEST POWER MARKETS

Dailies finish mixed; most terms advance

Western dailies were mixed Wednesday with warmer weather forecast in the region and higher spot natural gas prices. Most terms rose, and the NYMEX April natural gas futures contract settled 2.2 cents lower at \$3.434/MMBtu.

In the Northwest, Mid-Columbia day-ahead on-peak came off nearly \$2.25 to trade between \$32 and \$35/MWh for delivery on Thursday. Mid-C day-ahead off-peak was down about \$2.50 to trade between \$29.50 and \$33.50/MWh. Portland, Oregon, forecasts for Wednesday were warmer with highs in the upper 50s and lows in the mid-40s. A narrower high-low range from the mid-50s to 50 was on tap for Thursday.

The Bonneville Power Administration's wind generation at 11 a.m. PST Wednesday was 627 MW and hydropower was 8,759 MW.

In California, SP15 next-day on-peak rose almost \$1, trading between \$49.75 and \$51/MWh. SP15 day-ahead off-peak fell \$1 to about \$37.50/MWh. NP15 day-ahead on-peak was up 25 cents to about \$42.25/MWh. NP15 day-ahead off-peak climbed \$1.50 to about \$36/MWh. Sacramento, California, highs were expected to move from around 70 on Wednesday to the low 70s on Thursday, with lows also moving up from the low 40s to about 45. In Burbank, highs were seen shifting from 70 to the low 70s. Lows in the upper 40s were projected to increase to about 55 Thursday.

The California Independent System Operator projected peak demand to hit 28,653 MW on Wednesday and 28,684 MW on Thursday. Renewable generation was 3,426 MW and wind was about 200 MW at 11 a.m. PST on Wednesday.

In the desert Southwest, Palo Verde next-day on-peak lost roughly \$2 with trades between \$31.75 and \$33/MWh. Palo Verde day-ahead off-peak dropped \$2.50 to about \$29.25/MWh.

Phoenix highs were seen jumping from about 70 to the low 70s as lows were expected to increase from the low 40s to the upper 40s.

Next day natural gas prices rose in the Rockies and California. Opal climbed 4.5 cents to \$3.510/MMBtu, Pacific Gas and Electric city-gate jumped 5.6 cents to \$3.781/MMBtu, and SoCal city-gate was up 3.7 cents to \$3.777/MMBtu.

In the Northwest term markets, Mid-C on-peak March shed 75 cents with bids at \$31 and offers at \$31.50/MWh on ICE around 2:30 p.m. EST. April lost 75 cents to about \$28.50/MWh, and the second quarter fell 70 cents to about \$25.65/MWh. In California, SP15 on-peak March financial terms gained 50 cents with bids at \$47 and offers at \$47.50/MWh. April rose 25 cents to about \$47.25/MWh, and Q2 stayed at about \$47/MWh. NP15 March moved up 50 cents to about \$40.50/MWh, and Q2 crept up 15 cents to about \$39.25/MWh. Palo Verde March climbed 50 cents to about \$33/MWh, April stayed at about \$32.50/MWh, and Q2 was virtually unchanged at about \$34.65/MWh.

Day-ahead markets for delivery Feb 28(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	35.08	-2.17	33.75-37.00	16	400	31.35
Mid-C	33.37	-2.24	32.00-35.00	153	4,050	28.82
Palo Verde	32.09	-2.63	30.50-33.00	22	675	31.76
Mead	34.50	-1.50	34.50-34.50	N.A.	N.A.	33.04
Mona	34.25	-2.00	34.25-34.25	N.A.	N.A.	30.93
Four Corners	32.50	-2.50	32.50-32.50	N.A.	N.A.	31.32
NP15	43.00	1.00	43.00-43.00	N.A.	N.A.	40.01
SP15	50.25	0.75	50.25-50.25	N.A.	N.A.	46.45
Off-Peak						
COB	32.42	-3.74	32.00-33.25	15	400	29.64
Mid-C	32.31	-2.72	30.50-33.50	99	2,600	27.91
Palo Verde	29.00	-2.75	29.00-29.00	N.A.	N.A.	27.43
Mead	30.25	-5.25	30.25-30.25	N.A.	N.A.	28.91
Mona	27.00	-1.25	27.00-27.00	N.A.	N.A.	25.98
Four Corners	29.25	-5.25	29.25-29.25	N.A.	N.A.	27.40
NP15	36.00	1.50	36.00-36.00	N.A.	N.A.	33.96
SP15	37.25	-1.00	37.25-37.25	N.A.	N.A.	37.64

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	02/21	30.50-31.50
Bal-month (off-peak)	02/21	27.75-28.75

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Alamitos-4/AES	336	g	Calif.	PMO	Unk	02/03/13
Alamitos-5/AES	498	g	Calif.	PMO	Unk	02/11/13
Alta Wind/Terra-Gen	1002	w	Calif.	MO	Unk	02/26/13
Colgate-2/PCWA	337	h	Calif.	PMO	Unk	02/26/13
Contra Costa-7/NRG	337	g	Calif.	MO	Unk	02/26/13
Contra Costa-7/NRG	337	g	Calif.	MO	Unk	02/26/13
Diablo Canyon-2/PG&E	1150	n	Calif.	PMO	Unk	02/03/13
Eastwood/SCE	200	h	Calif.	PMO	Unk	02/04/13
El Segundo-4/NRG	335	g	Calif.	PMO	Unk	02/18/13
Empire-2/Inland Empire	366	g	Calif.	MO	Unk	02/18/13
Encina-4/Cabrillo	300	g	Calif.	PMO	Unk	02/18/13
Encina-5/Cabrillo	330	g	Calif.	PMO	Unk	02/18/13
Etiwanda-3/RRR	320	g	Calif.	PMO	Unk	01/27/13
Helms-2/PG&E	407	h	Calif.	PMO	Unk	12/02/12
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/13
Mandalay-1/RRR	215	g	Calif.	PMO	Unk	02/10/13
Martinez Cogen	115	g	Calif.	PMO	Unk	02/25/13
Mexicali/Energia Azteca	180	g	Calif.	PMO	Unk	02/20/13
Mountainview-4	525	g	Calif.	PMO	Unk	02/26/13
Ocotillo/Pattern	265	w	Calif.	PMO	Unk	02/26/13
Ormond Beach-2/RRR	775	g	Calif.	PMO	Unk	02/25/13
Pittsburg-7/NRG	682	g	Calif.	PMO	Unk	02/18/13
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Sentinel/CPV	728	g	Calif.	MO	Unk	01/17/13
Sunrise/Edison	590	g	Calif.	PMO	Unk	01/23/13

WEST POWER MARKETS

Dailies, terms end up mostly lower

Western dailies were mostly down Wednesday morning despite higher spot natural gas prices in the region. Most terms also fell, and NYMEX May natural gas futures Wednesday closed 7.7 cents higher at \$4.068/MMBtu, the first time the front-month contract has settled above \$4 in 18 months.

In the Northwest, Mid-Columbia day-ahead on-peak tumbled about \$7 to trade between \$28 and \$32/MWh for delivery on Friday and Saturday. Mid-C day-ahead off-peak prices dropped more than \$5 with trades between \$27.25 and \$29.25/MWh for delivery on Friday, Saturday and all day Sunday.

Portland forecasts had highs increasing from the high 50s to the low 70s and then retreating to the high 60s Sunday. Expected lows were steady around 46 before hitting the low 50s Sunday.

The Bonneville Power Administration's wind at 7 a.m. PDT Wednesday was 6 MW and its hydropower was 10,593 MW.

In California, SP15 next-day on-peak lost more than \$3, to trade between \$48 and \$50/MWh. SP15 day-ahead off-peak was up 25 cents to trade between \$41 and \$42.50/MWh. NP15 day-ahead on-peak dropped \$3.25 to about \$43.25/MWh. NP15 day-ahead off-peak declined almost 50 cents with trades between \$37.25 and \$37.50/MWh.

Projected highs in Sacramento, California, were mostly in the low 70s, with the exception of 81 on Friday. Forecast lows were between 50 and the mid-50s. In Burbank, forecast highs were from the upper 60s to 70 while lows were from the high 40s to around 50.

The California Independent System Operator projected peak demand to hit 28,372 MW Wednesday, 28,602 MW Thursday, 27,790 MW Friday, 25,763 MW Saturday and 26,203 MW Sunday. Renewables were 3,822 MW and wind was about 2,050 MW at 7 a.m. PDT Wednesday.

In the desert Southwest, Palo Verde next-day on-peak fell nearly 50 cents with trades between \$36 and \$36.50/MWh. Palo Verde day-ahead off-peak rose more than \$2.50, to trade between \$29 and \$31.75/MWh.

Phoenix forecast highs around 90 through Sunday, with the exception of 88 on Friday. Expected lows were steady declining from the mid-60s to the high 50s.

Next day natural gas prices rose in the Rockies and California. Opal inched up 3.6 cents to \$3.946/MMBtu, PG&E city-gate gained 6.8 cents to \$4.233/MMBtu, and SoCal city-gate was up 6.3 cents to \$4.253/MMBtu.

Day-ahead prices for Thursday in the California ISO auction cleared mostly lower Wednesday afternoon. SP15 on-peak cleared \$1.21 higher at \$47.60/MWh as demand was forecast higher in the Southern California region. SP15 off-peak prices fell 49 cents to \$36.70/MWh. NP15 on-peak lost \$2.35 to \$41.01/MWh and NP15 off-peak dropped 80 cents to \$36.18/MWh. ZP26 on-peak gave up \$2.72 to \$39.96/MWh and ZP26 off-peak fell 35 cents to \$35.56/MWh.

In the Northwest term markets, Mid-C on-peak April fell 25 cents with bids at \$29.50 and offers at \$30/MWh on ICE around 2:30 p.m. EDT. The second quarter crept up 15 cents to about \$25.50/MWh, and the third quarter gained 55 cents to about

Day-ahead markets for delivery Mar 29-30 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	33.25	-6.60	33.00-34.50	19	500	34.92
Mid-C	30.01	-7.11	27.25-32.00	206	5,475	32.58
Palo Verde	36.14	-0.59	35.75-36.50	18	550	33.34
Mead	38.00	-1.00	38.00-38.00	N.A.	N.A.	35.21
Mona	36.50	-2.00	36.50-36.50	N.A.	N.A.	33.70
Four Corners	36.25	-2.25	36.25-36.25	N.A.	N.A.	33.88
NP15	43.25	-3.25	43.25-43.25	N.A.	N.A.	42.64
SP15	49.50	-3.25	49.50-49.50	N.A.	N.A.	51.39
Off-Peak						
COB	30.64	-4.30	30.00-30.75	13	350	32.34
Mid-C	27.90	-5.33	27.25-29.25	110	2,925	30.34
Palo Verde	30.25	2.00	30.25-30.25	N.A.	N.A.	27.72
Mead	31.25	0.25	31.25-31.25	N.A.	N.A.	30.07
Mona	31.25	3.00	31.25-31.25	N.A.	N.A.	28.31
Four Corners	30.25	0.75	30.25-30.25	N.A.	N.A.	28.12
NP15	37.25	-0.25	37.25-37.25	N.A.	N.A.	36.19
SP15	41.50	0.75	41.50-41.50	N.A.	N.A.	40.87

West off-peak includes all day Sunday.

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	03/20	34.25-34.75

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
ACE Cogen/ACE Cogen	118	c	Calif.	MO	Unk	03/03/13
Alamitos-3/AES	332	g	Calif.	MO	Unk	03/20/13
Alamitos-4/AES	336	g	Calif.	PMO	Unk	02/03/13
Alamitos-5/AES	498	g	Calif.	PMO	Unk	03/20/13
Alamitos-6/AES	495	g	Calif.	PMO	Unk	03/17/13
Belden/PG&E	119	h	Calif.	PMO	Unk	03/18/13
Coolwater-4/NRG	246	g	Calif.	PMO	Unk	03/13/13
Crockett Cogen/EIF	240	g	Calif.	PMO	Unk	03/21/13
Delta Center/Delta Energy	880	g	Calif.	PMO	Unk	03/24/13
Desert Star/SDG&E	495	g	Calif.	PMO	Unk	03/26/13
Encina-1/Cabrillo	106	g	Calif.	PMO	Unk	03/24/13
Etiwanda-3/NRG	320	g	Calif.	MO	Unk	03/10/13
Etiwanda-4/NRG	320	g	Calif.	PMO	Unk	03/03/13
Harbor Cogen/Black Hills	109	g	Calif.	PMO	Unk	03/18/13
Helms-2/PG&E	407	h	Calif.	PMO	Unk	12/02/12
Huntington Beach-1/AES	226	g	Calif.	PMO	Unk	03/11/13
Intermountain Power-2	900	c	Calif.	MO	Unk	03/17/13
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/13
Mandalay-1/NRG	215	g	Calif.	PMO	Unk	02/10/13
Moss Landing-6/Dynergy	754	g	Calif.	PMO	Unk	03/18/13
Mountainview-4/SCE	525	g	Calif.	PMO	Unk	02/26/13
Otay Mesa/Calpine	604	g	Calif.	PMO	Unk	03/03/13
Redondo-6/AES	175	g	Calif.	PMO	Unk	03/24/13
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Sentinel/CPV	728	g	Calif.	MO	Unk	01/17/13
Sunrise/Edison	586	g	Calif.	PMO	Unk	01/23/13

\$42.90/MWh. In California, SP15 on-peak April financial terms fell 25 cents with bids at \$51 and offers at \$51.75/MWh. Q2 stayed at about \$51/MWh, and Q3 inched up 15 cents to about \$59/MWh. NP15 April fell 25 cents to about \$44/MWh, and Q2 stayed at about \$43.75/MWh. Palo Verde April rose 25 cents to about \$37/MWh, Q2 was virtually unchanged at about \$39.15/MWh, and Q3 surged up 65 cents to about \$48.25/MWh.

WEST POWER MARKETS

Dailies finish mostly lower, but terms spike

Western dailies were mostly down Monday morning with lower peak demand forecast in California, some lower forecast temperatures, and despite higher spot natural gas prices in the region.

Terms surged, and the NYMEX June natural gas futures contract rose 16.9 cents Monday to settle at \$4.392/MMBtu.

In the Northwest, Mid-Columbia day-ahead on-peak was up more than \$4 to trade between \$33 and \$36.95/MWh on IntercontinentalExchange for delivery on Tuesday. Mid-C day-ahead off-peak lost more than 25 cents in trades between \$20 and \$27/MWh with the transition away from Sunday peak hours. The Mid-C on-peak balance-of-the-month package was bid at \$28.50/MWh.

Portland, Oregon, expected steady highs near the mid-50s through Tuesday. Lows were projected in the high 30s. The Bonneville Power Administration's wind generation at 7 a.m. PDT Monday was 3,575 MW and hydropower was 10,596 MW.

In California, SP15 next-day on-peak declined more than \$4.25 to trade between \$57.75 and \$61.50/MWh. SP15 day-ahead off-peak shed \$12.25 to around \$37.75/MWh. NP15 day-ahead on-peak fell more than 25 cents about \$48.50/MWh. NP15 day-ahead off-peak lost more than \$4 to around \$39.75/MWh.

Sacramento, California, highs were expected around 90 Tuesday, about a 5-degree drop. Forecast lows were up slightly from the high 50s to low 60s.

The California Independent System Operator projected peak demand to hit 31,781 MW on Monday and 30,940 on Tuesday. Renewable generation was 3,712 MW and wind was about 2,000 MW at 7 a.m. PDT on Monday.

In the desert Southwest, Palo Verde next-day on-peak was up about \$1 to trade between \$33 and \$36.95/MWh on the ICE. Palo Verde day-ahead off-peak prices retreated more than \$3, trading between \$29.70 and \$31/MWh on the ICE.

Phoenix forecasts had highs in the low 100s through Tuesday, an increase of about 5 degrees. Lows were expected from around 70 to the low 70s.

Next-day natural gas rose in the Rockies and California. Opal was up 16.2 cents to \$4.057/MMBtu, PG&E city-gate added 14.8 cents to \$4.328/MMBtu, and SoCal city-gate gained 16.5 cents to \$4.395/MMBtu.

Day-ahead auction prices in the California ISO were mostly down Monday afternoon following the lower demand forecast. SP15 on-peak fell \$15.30 to \$47.58/MWh and SP15 off-peak dropped \$1.25 to \$33.67/MWh. NP15 on-peak slid \$4.28 to \$44.82/MWh as NP15 off-peak declined 37 cents to \$33.64/MWh. ZP26 on-peak prices retreated \$4.25 to \$43.84/MWh while ZP26 off-peak gained \$4.98 to \$32.46/MWh.

In the Northwest term markets, Mid-Columbia on-peak May added \$2.75 with bids at \$31.15 and offers at \$31.75/MWh on ICE around 2:30 p.m. EDT. June jumped \$1.75 to about \$27.25/

Day-ahead markets for delivery Apr 30 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	39.44	4.72	38.50-40.00	7	225	36.01
Mid-C	35.43	3.96	33.00-36.95	100	2,750	31.07
Palo Verde	42.83	1.08	41.50-44.50	22	650	37.46
Mead	44.50	1.00	44.50-44.50	N.A.	N.A.	39.10
Mona	36.50	2.00	36.50-36.50	N.A.	N.A.	33.24
Four Corners	38.17	0.92	34.00-40.00	5	150	36.79
NP15	48.25	-0.50	48.25-48.25	N.A.	N.A.	47.06
SP15	58.75	-4.50	58.75-58.75	N.A.	N.A.	56.34
Off-Peak						
COB	29.00	1.75	29.00-29.00	N.A.	N.A.	24.43
Mid-C	24.19	-0.37	20.00-27.00	166	4,600	18.55
Palo Verde	30.28	-3.17	29.50-31.00	11	375	29.29
Mead	30.25	-2.86	30.25-30.25	N.A.	N.A.	29.75
Mona	25.25	-1.75	25.25-25.25	N.A.	N.A.	22.82
Four Corners	26.00	-5.25	26.00-26.00	N.A.	N.A.	27.86
NP15	35.75	-4.00	35.75-35.75	N.A.	N.A.	36.33
SP15	37.25	-12.75	37.25-37.25	N.A.	N.A.	40.78

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month (off-peak)	04/25	22.00-23.00
Bal-month (off-peak)	04/24	20.25-20.75

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
ACE Cogen/Constellation	118	g	Calif.	MO	Unk	04/28/13
Catalina Solar-1&2/EDF	110	s	Calif.	MO	Unk	04/01/13
Crockett Cogen/EIF	240	g	Calif.	PMO	Unk	03/21/13
Desert Star/SDG&E	495	g	Calif.	PMO	Unk	03/24/13
Empire-1/Inland Empire	376	g	Calif.	PMO	Unk	04/01/13
Gilroy Cogen/Calpine	120	g	Calif.	PMO	Unk	04/01/13
Helms-2/PG&E	407	h	Calif.	PMO	Unk	12/02/12
Huntington Beach-3/AES	225	g	Calif.	PMO	Unk	04/14/13
Huntington Beach-4/AES	215	g	Calif.	PMO	Unk	04/14/13
Intermountain Power-2	900	c	Calif.	MO	Unk	03/17/13
La Paloma-2/La Pa Genco	260	g	Calif.	MO	Unk	04/28/13
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	01/02/13
Malburg/City of Vernon	134	g	Calif.	PMO	Unk	04/01/13
Mandalay-1/NRG	215	g	Calif.	PMO	Unk	02/10/13
Mexicali/Sempra	118	g	Calif.	MO	Unk	04/25/13
Mountainview-4	525	g	Calif.	PMO	Unk	04/23/13
San Onofre-2/SCE	1,124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1,126	n	Calif.	MO	Unk	01/31/12
Sentinel/CPV	728	g	Calif.	PMO	Unk	04/24/13

MWh, and the third quarter rose \$1.50 cents to about \$45.50/MWh. In California, SP15 on-peak May financial terms rose \$1.50 with bids at \$59.25 and offers at \$59.75/MWh. June jumped \$2 to about \$54.25/MWh, and Q3 climbed \$2 to about \$63.50/MWh. NP15 May rose \$1.50 to about \$48.25/MWh, and Q3 surged up \$2.15 to about \$56.40/MWh. Palo Verde May rose \$1.25 to about \$40.50/MWh, June gained \$1.50 to about \$44.25/MWh, and Q3 rose \$1.20 to about \$50.85/MWh.

WEST POWER MARKETS

Dailies, terms both finish mostly higher

Western dailies and terms were mostly higher Wednesday with higher demand expected in California on Thursday. The NYMEX June natural gas futures contract posted a preliminary expiration of \$4.148/MMBtu, down 2.6 cents.

In the Northwest, Mid-Columbia day-ahead on-peak was down about \$1 to trade between \$32.50 and \$35.250/MWh for delivery on Thursday and Friday. Mid-C day-ahead off-peak was up more nearly \$4 to trade between \$9 and \$15/MWh. The Mid-C on-peak balance-of-the-month package was bid at \$7 on IntercontinentalExchange.

Portland, Oregon, forecast highs were for around 60 through Thursday. Projected lows were for the low 50s.

The Bonneville Power Administration's wind at 7 a.m. PDT Wednesday was 106 MW and its hydropower was 12,194 MW.

In California, SP15 next-day on-peak was up around \$3.50 to trade between \$52.50 and \$54.50/MWh. SP15 day-ahead off-peak rose \$5 to about \$37/MWh. NP15 day-ahead on-peak was up about \$3.50 to around \$47/MWh. NP15 day-ahead off-peak increased more than \$2.25 to about \$34.50/MWh.

Sacramento, California, expected highs above 85 Thursday, up about five degrees from Wednesday. Forecast lows were for the mid- to high 50s. Burbank expected highs in the mid- to upper 80s with lows around 60.

The California Independent System Operator projected peak demand to hit 31,263 MW on Wednesday and 33,016 MW on Thursday. Renewables were 4,882 MW and wind was about 3,000 MW at 7 a.m. PDT on Wednesday.

In the desert Southwest, Palo Verde next-day on-peak prices were up more than 25 cents to trade between \$38.50 and \$40/MWh. Palo Verde day-ahead off-peak was about flat at around \$27/MWh.

Phoenix highs were forecast in the upper 90s through Thursday. Expected lows were for the low to mid-70s.

Next day natural gas were mixed in the Rockies and California. Opal was up 1.6 cents to \$3.950/MMBtu, PG&E city-gate was up less than 1 cent to \$4.253/MMBtu, and SoCal city-gate was down less than 1 cent to \$4.298/MMBtu.

Most day-ahead prices in the California ISO auction were up Wednesday afternoon following the higher peak demand forecast. SP15 on-peak rose 90 cents to \$48.11/MWh while SP15 off-peak was down \$1.24 to \$34.88/MWh. NP15 on-peak gained \$2.04 to \$46.59/MWh and NP15 off-peak added \$1.50 to \$34.72/MWh. ZP26 on-peak was up \$1.32 to \$44.84/MWh as ZP26 off-peak also increased \$1.32 to \$33.82/MWh.

In the Northwest term markets, Mid-C on-peak June jumped \$1.25 with bids at \$34.60 and offers at \$35/MWh on ICE around 2:30 p.m. EDT. July rose 50 cents to about \$44.75/MWh, and the third quarter was constant at about \$45.40/MWh. In California, SP15 on-peak June financial terms gained 50 cents

Day-ahead markets for delivery May 30-31(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	37.08	-1.00	36.00-39.00	14	375	36.40
Mid-C	34.27	-0.83	32.50-40.00	150	4,125	33.97
Palo Verde	39.07	0.28	38.50-43.00	33	900	38.09
Mead	40.75	0.50	40.75-40.75	N.A.	N.A.	39.64
Mona	34.75	-2.50	34.75-34.75	N.A.	N.A.	35.63
Four Corners	40.50	1.72	40.50-40.50	N.A.	N.A.	37.75
NP15	47.75	3.50	47.75-47.75	N.A.	N.A.	43.76
SP15	54.25	4.00	54.25-54.25	N.A.	N.A.	51.49
Off-Peak						
COB	18.75	6.75	18.75-18.75	N.A.	N.A.	16.30
Mid-C	11.84	3.86	9.00-15.50	181	4,675	12.14
Palo Verde	27.00	0.07	26.50-28.00	19	775	26.33
Mead	27.26	0.34	26.65-28.50	10	300	27.16
Mona	20.50	0.25	20.50-20.50	N.A.	N.A.	22.28
Four Corners	26.00	1.00	26.00-26.00	N.A.	N.A.	24.78
NP15	33.75	1.75	33.75-33.75	N.A.	N.A.	32.08
SP15	37.00	5.00	37.00-37.00	N.A.	N.A.	35.79

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	05/28	34.25-34.75
Bal-month (off-peak)	05/28	5.00-7.50
Bal-month (off-peak)	05/23	11.75-12.25

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Contra Costa-6/NRG	337	g	Calif.	MO	Unk	05/01/13
Contra Costa-7/NRG	337	g	Calif.	PMO	Unk	05/01/13
Desert Star/SDG&E	495	g	Calif.	PMO	Unk	03/24/13
Empire-2/Inland Empire	366	g	Calif.	PMO	Unk	05/20/13
Encina-1/Cabrillo	106	g	Calif.	MO	Unk	05/27/13
Encina-5/Cabrillo	330	g	Calif.	PMO	Unk	04/29/13
Huntington Beach-3/AES	225	g	Calif.	PMO	Unk	04/14/13
Huntington Beach-4/AES	215	g	Calif.	PMO	Unk	04/14/13
La Paloma-1/La Paloma	260	g	Calif.	PMO	Unk	05/27/13
La Paloma-2/La Paloma	260	g	Calif.	PMO	Unk	05/12/13
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	05/27/13
Morrow Bay-4/Dynegy	325	g	Calif.	MO	Unk	05/27/13
Moss Landing-2/Dynegy	510	g	Calif.	PMO	Unk	05/22/13
Ocotillo/Pattern	265	w	Calif.	MO	Unk	05/16/13
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12
Sunrise/Edison	586	g	Calif.	MO	Unk	05/16/13
Valley Solar/NRG	210	s	Calif.	PMO	Unk	05/12/13

with bids at \$51.50 and offers at \$52/MWh. July stayed at about \$59.50/MWh, and Q3 crept down 15 cents to about \$60.35/MWh. NP15 June surged 75 cents to about \$44.75/MWh, and Q3 inched down 15 cents to about \$53.50/MWh. Palo Verde June stayed at about \$42/MWh, July stayed at about \$50.50/MWh, and August eased down 15 cents to about \$49/MWh.

WEST POWER MARKETS

Dailies go mostly higher, but terms slide

Western dailies were mostly higher Thursday morning amid rising temperatures, the inclusion of peak hours in Sunday off-peak prices, and the partial shutdown of the Diablo Canyon nuclear plant in California.

Terms tumbled, and the NYMEX August natural gas futures posted a preliminary settlement of \$3.582/MMBtu Thursday, down 15.5 cents

In the Pacific Northwest, Mid-Columbia day-ahead on-peak was down slightly to trade between \$26 and \$37.25/MWh for delivery on Saturday and all day Sunday. Mid-C day-ahead off-peak was up \$8.70 slightly to trade between \$23 and \$26.50/MWh on IntercontinentalExchange. Portland, Oregon, should have highs were from the mid- to high 80s through Sunday, about 10 degrees above normal, while expected lows were in the mid-60s.

The Bonneville Power Administration's wind at 7 a.m. PDT Thursday was 17 MW and its hydropower was 11,606 MW.

In California, SP15 next-day on-peak added around 79 cents to trade between \$57 and \$57.50/MWh. SP15 day-ahead off-peak was up \$13 to trade between \$45.50 and \$46.25/MWh. NP15 day-ahead on-peak was up more than \$1 to trade between \$52.50 and \$53/MWh. NP15 day-ahead off-peak gained \$8.75 to about \$42/MWh.

Sacramento, California, expected highs to reach above 105 by Sunday, around 15 degrees above normal. Forecasts for Burbank had highs between in the upper 90s through Sunday.

The California Independent System Operator projected peak demand to hit 41,309 MW on Thursday, 43,265 MW on Friday, 41,236 MW on Saturday, and 40,378 MW on Sunday. Renewables were 3,367 MW and wind was more than 1,350 MW at 7 a.m. PDT on Thursday.

Diablo Canyon-1, a 1,073-MW resource, was offline to allow a leaking weld inside the reactor to be repaired. A Nuclear Regulatory Commission spokeswoman said Wednesday that the repair should be simple and quick.

In the desert Southwest, Palo Verde next-day on-peak was up almost \$6 to trade between \$42 and \$43.50/MWh. Palo Verde day-ahead off-peak was about flat, trading between \$24.75 and \$25/MWh.

Phoenix expected highs to reach above 115 by Sunday with lows above 90 or about 10 degrees above normal.

Next-day natural gas prices were mixed in the Rockies and California. Opal was down less than 1 cent to \$3.531/MMBtu, Pacific Gas and Electric city-gate lost 1.8 cents to \$3.807/MMBtu, and SoCal city-gate rose 5.3 cents to \$3.978/MMBtu.

Day-ahead prices were up in the California Independent System Operator auction Wednesday afternoon following the weather forecasts. SP15 on-peak added \$8.46 to \$63.26/MWh and SP15 off-peak climbed \$1.85 to \$35.48/MWh. NP15 on-peak gained \$8.67 to \$59.60/MWh while NP15 off-peak was up \$1.46 to \$34.95/MWh. ZP26 on-peak jumped \$9.91 to \$60.88/MWh as ZP26 off-peak rose \$1.73 to \$34.98/MWh.

Day-ahead markets for delivery Jun 29 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	40.98	2.48	39.75-42.00	10	275	36.03
Mid-C	35.97	0.44	35.00-37.25	153	3,900	33.71
Palo Verde	46.01	3.41	45.00-49.00	13	400	38.49
Mead	55.11	9.01	51.60-58.00	5	250	41.65
Mona	48.75	4.25	48.75-48.75	N.A.	N.A.	38.76
Four Corners	51.25	5.50	51.25-51.25	N.A.	N.A.	41.12
NP15	52.75	1.25	52.75-52.75	N.A.	N.A.	43.34
SP15	57.25	0.75	57.25-57.25	N.A.	N.A.	47.77

Off-Peak*

COB	30.35	11.45	28.00-33.00	22	575	22.78
Mid-C	24.63	8.80	23.00-26.50	119	3,125	20.46
Palo Verde	32.07	7.32	31.00-33.00	18	525	27.34
Mead	34.75	8.59	34.75-34.75	N.A.	N.A.	28.19
Mona	25.00	5.00	25.00-25.00	N.A.	N.A.	21.35
Four Corners	30.50	6.50	30.50-30.50	N.A.	N.A.	25.74
NP15	42.00	8.75	42.00-42.00	N.A.	N.A.	33.08
SP15	46.00	13.00	46.00-46.00	N.A.	N.A.	35.13

*West off-peak includes all day Sunday.

Near-term markets (\$/MWh)

Contract	Tranacted	Deal
Mid-C		
Bal-month	06/25	36.75-37.25
Bal-month	06/24	34.00-34.50
Bal-month	06/21	31.00-32.50
Bal-month (off-peak)	06/25	21.50-23.00
Bal-month (off-peak)	06/24	16.50-17.75
Bal-month (off-peak)	06/21	17.00-22.00
Next-week	06/26	46.00-47.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Contra Costa-6/NRG	337	g	Calif.	MO	Unk	05/01/13
Contra Costa-7/NRG	337	g	Calif.	PMO	Unk	05/01/13
Diablo Canyon-1/PG&E	1150	n	Calif.	PMO	Unk	06/26/13
Huntington Beach-3/AES	225	g	Calif.	PMO	Unk	04/14/13
Huntington Beach-4/AES	215	g	Calif.	PMO	Unk	04/14/13
Los Esteros/Calpine	188	g	Calif.	PMO	Unk	05/27/13
Mexcali/Sempra	180	g	Calif.	MO	Unk	05/02/13
Morro Bay-3/Dynergy	325	g	Calif.	PMO	Unk	06/24/13
Morro Bay-4/Dynergy	325	g	Calif.	MO	Unk	06/24/13
Ocotillo/Pattern	265	w	Calif.	MO	Unk	05/16/13
San Luis/CDWR	374	h	Calif.	MO	Unk	06/26/13
San Onofre-2/SCE	1124	n	Calif.	PMO	Unk	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Unk	01/31/12

In the Northwest term markets, Mid-Columbia on-peak July tanked \$2.50 with bids at \$38.50 and offers at \$39.50/MWh on ICE around 2:30 p.m. EDT. The third quarter dropped \$2.15 to about \$40/MWh, and the fourth quarter fell \$1.50 to about \$35.35/MWh. In California, SP15 on-peak July financial terms dived \$2.25 with bids at \$53 and offers at \$53.50/MWh. Q3 skidded \$2 to about \$53/MWh, and Q4 fell \$1.75 to about \$45.60/MWh. NP15 July slid \$2.25 to about \$48.25/MWh, and Q3 fell \$1.70 to about \$48.15/MWh. Palo Verde July fell \$1.25 to about \$43.25/MWh, Q3 dipped \$1.50 to about \$41.85/MWh, and Q4 fell \$1.20 to about \$34.90/MWh.

WEST POWER MARKETS

Dailies, terms finish with mixed results

Western dailies were mixed Tuesday amid higher demand expected in California and close to flat spot natural gas prices. Terms also ended mixed, and the NYMEX September natural gas futures contract fell 4 cents Tuesday to a preliminary settlement price of \$3.432/MMBtu.

In the Northwest, Mid-Columbia day-ahead on-peak was down almost 75 cents to trade between \$38 and \$43/MWh for delivery on Wednesday. Mid-C day-ahead off-peak fell more than \$1.25 to trade between \$20.25 and \$24.50/MWh. The Mid C on-peak balance-of-the-month package was bid at \$47.25/MWh.

Portland, Oregon's forecast highs were for the low 80s on Wednesday, up slightly from Tuesday's projected high. Expected lows were for the high 50s to the low 60s.

The Bonneville Power Administration's wind at 7 a.m. PDT Tuesday was 2,096 MW, and its hydropower was 8,144 MW.

The Columbia Generating Station was back at full capacity after water heater maintenance at the reactor.

In California, SP15 next-day on-peak rose about 75 cents to trade between \$45.75 and \$46.25/MWh. SP15 day-ahead off-peak was down slightly to trade between \$33 and \$33.25/MWh. NP15 day-ahead on-peak dropped 75 cents to around \$41.25/MWh. NP15 day-ahead off-peak retreated more than 75 cents to trade between \$30.50 and \$32.25/MWh.

Sacramento, California, expected highs near 90 on Wednesday with lows around the mid-50s. Forecast highs for Burbank were for the lows 80s through Wednesday and anticipated lows were in the low 60s.

Cal-ISO projected peak demand to hit 34,342 MW on Tuesday and 35,120 MW on Wednesday. Renewables were 3,207 MW and wind was about 1,350 MW at 7 a.m. PDT on Tuesday.

In the desert Southwest, Palo Verde next-day on-peak was up more than \$3.50 to trade between \$40 and \$44/MWh. Palo Verde day-ahead off-peak climbed slightly to trade between \$24.50 and \$24.75/MWh.

Phoenix expected highs around 105 on Wednesday, up slightly, and lows in the low 80s.

Next-day natural gas prices were near flat in the Rockies and California. Opal was down less than 1 cent to \$3.321/MMBtu, Pacific Gas and Electric city-gate fell less than 1 cent to \$3.715/MMBtu, and SoCal city-gate added 2 cents to \$3.765/MMBtu.

Most day-ahead prices were mostly up in the California Independent System Operator auction Tuesday afternoon. SP15 on-peak fell \$3.36 to \$43.92/MWh, and SP15 off-peak rose \$1.58 to \$35.18/MWh. NP15 on-peak gained 74 cents to \$40.77/MWh, while NP15 off-peak added 30 cents to \$32.11/MWh. ZP26 on-peak was up \$1.89 to \$41.15/MWh, as ZP26 off-peak climbed \$1.02 to \$30.12/MWh.

In the Northwest, Mid-Columbia on-peak August futures

Day-ahead markets for delivery Jul 31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	40.93	1.18	39.65-42.50	11	300	49.96
Mid-C	40.21	-0.77	38.00-43.00	178	4,550	45.52
Palo Verde	41.93	3.08	40.00-44.50	13	375	48.15
Mead	44.05	2.35	42.75-46.25	9	250	54.03
Mona	43.75	3.25	43.75-43.75	N.A.	N.A.	52.64
Four Corners	46.00	5.75	46.00-46.00	N.A.	N.A.	51.11
NP15	41.00	0.50	41.00-41.00	N.A.	N.A.	49.35
SP15	46.00	1.00	46.00-46.00	N.A.	N.A.	51.74
Off-Peak						
COB	21.25	-3.25	21.25-21.25	N.A.	N.A.	22.80
Mid-C	22.49	-1.39	20.50-25.00	138	3,675	20.75
Palo Verde	24.50	0.00	24.50-24.50	N.A.	N.A.	27.35
Mead	25.42	0.67	24.40-26.00	9	350	29.25
Mona	23.75	-1.00	23.75-23.75	N.A.	N.A.	25.29
Four Corners	24.00	0.75	24.00-24.00	N.A.	N.A.	26.92
NP15	31.50	-0.75	31.50-31.50	N.A.	N.A.	34.26
SP15	33.00	-0.25	33.00-33.00	N.A.	N.A.	35.68

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	07/25	44.00-45.00
Bal-month	07/24	41.25-41.75
Next-week	07/30	55.50-57.50
SP15		
Bal-month	07/24	47.00-47.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Alamitos-6/AES	495	g	Calif.	MO	Unk	07/21/13
Contra Costa-6/NRG	337	g	Calif.	PMO	Unk	05/01/13
Contra Costa-7/NRG	337	g	Calif.	PMO	Unk	05/01/13
El Segundo-3/NRG	335	g	Calif.	MO	Unk	07/23/13
El Segundo-4/NRG	335	g	Calif.	MO	Unk	07/28/13
El Segundo-5-8/NRG	520	g	Calif.	MO	Unk	07/21/13
Huntington Beach-3/AES	225	g	Calif.	PMO	Unk	04/14/13
Huntington Beach-4/AES	215	g	Calif.	PMO	Unk	04/14/13
Mexicali/Sempra	180	g	Calif.	PMO	Unk	07/22/13
San Onofre-2/SCE	1124	n	Calif.	PMO	Retired	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Retired	01/31/12

were down 75 cents, with bids at \$46.50/MWh and offers at \$46.75/MWh on ICE around 2:30 p.m. EDT. Mid-C off-peak August slipped \$1 to about \$29.25/MWh. In California, SP15 on-peak August futures came off 50 cents, with bids at \$49.10/MWh and offers at \$49.50/MWh on ICE. NP15 August rose 25 cents to \$45.50/MWh. In the Southwest, Palo Verde August futures moved up 75 cents, with bids at \$43.50/MWh and offers at \$45/MWh on ICE.

WEST POWER MARKETS

Dailies finish mixed; terms move up

Western power dailies were mixed Thursday morning, with lower demand expected in California and higher natural gas prices in the region. Terms surged, and the NYMEX October natural gas futures contract posted a preliminary settlement Thursday of \$3.618/MMBtu, up 3.6 cents from Wednesday's close.

In the Northwest, Mid-Columbia day-ahead on-peak was down around \$2.50 to trade between \$39 and \$43/MWh for delivery on Friday and Saturday. Mid-C day-ahead off-peak prices fell around 25 cents to trade between \$27 and \$28 /MWh.

Portland, Oregon's forecast highs were in the mid-80s on Saturday, up about 10 degrees. Expected lows were in the low to high 60s.

The Bonneville Power Administration's wind at 7 am PDT Thursday was 252 MW, and its hydropower was 6,407 MW.

In California, SP15 next-day on-peak dropped about \$4.75 to trade between \$49.25 and \$49.75/MWh. SP15 day-ahead off-peak added around 50 cents to trade between \$35 and \$35.50/MWh. NP15 day-ahead on-peak lost about \$3.25 to trade between \$46.25 and \$46.50/MWh. NP15 day-ahead off-peak was around 25 cents higher to trade between \$34.25 and \$34.50/MWh.

Sacramento, California, expected highs in the low 90s and lows in the low 60s through Saturday. Forecast highs for Burbank were around 90 on Saturday, down more than five degrees, and anticipated lows were in the low 70s.

The California Independent System Operator projected peak demand to hit 42,441 MW on Thursday, 41,123 MW on Friday, and 37,930 MW on Saturday. Renewables were 2,774 MW and wind was about 1,050 MW at 7 am PDT on Thursday.

In the desert Southwest, Palo Verde next-day on-peak was down slightly, trading between \$37.50 and \$38.50/MWh. Palo Verde day-ahead off-peak was up about 50 cents to trade between \$26.50 and \$27.50/MWh.

Phoenix expected highs near 100 on Saturday, up about five degrees from Friday's forecast, and lows in the low 80s.

Next-day natural gas prices rose in the Rockies and California. Opal was up 1.6 cents to \$3.481/MMBtu, Pacific Gas and Electric city-gate added 4.7 cents to \$3.962/MMBtu, and SoCal city-gate gained 4.9 cents to \$3.874/MMBtu.

Day-ahead prices were up in the California Independent System Operator auction Thursday afternoon. SP15 on-peak rose \$1.85 to \$52.46/MWh, as SP15 off-peak added \$3.15 to \$38.13/MWh. NP15 on-peak gained 86 cents to \$49.64/MWh, and NP15 off-peak was up \$1.33 to \$35.45/MWh. ZP26 on-peak climbed \$1.09 to \$48.57, while ZP26 off-peak increased \$1.26 to \$34.82/MWh.

In the Northwest term markets, Mid-C on-peak September rose 50 cents with bids at \$40 and offers at \$40.25/MWh on ICE around 2:30 pm EDT. October rose 50 cents to about \$35.75/MWh, and the fourth quarter rose 55 cents to about \$38.15/

Day-ahead markets for delivery Aug 30-31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	43.75	-4.25	41.40-45.00	11	275	41.41
Mid-C	41.82	-2.65	38.00-43.00	170	4,525	38.99
Palo Verde	38.15	-0.22	37.50-39.75	24	675	38.32
Mead	41.75	-1.75	41.25-42.00	6	150	42.58
Mona	45.00	-6.50	45.00-45.00	N.A.	N.A.	44.31
Four Corners	41.50	-2.75	41.50-41.50	N.A.	N.A.	42.30
NP15	46.25	-3.50	46.25-46.25	N.A.	N.A.	42.29
SP15	49.50	-5.00	49.50-49.50	N.A.	N.A.	45.44
Off-Peak						
COB	28.45	-1.12	27.75-29.00	10	375	27.59
Mid-C	27.51	-0.33	27.00-28.00	26	825	25.76
Palo Verde	26.98	0.31	26.25-27.50	27	1,250	26.10
Mead	28.25	0.25	28.25-28.25	N.A.	N.A.	28.42
Mona	27.00	0.50	27.00-27.00	N.A.	N.A.	25.44
Four Corners	26.73	0.20	26.40-27.00	8	300	26.26
NP15	34.50	0.25	34.50-34.50	N.A.	N.A.	34.20
SP15	35.50	0.50	35.50-35.50	N.A.	N.A.	34.68

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	08/27	41.25-41.75
Bal-month	08/26	39.00-40.00
Bal-month	08/23	36.50-38.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Colgate-2/PCWA	176	h	Calif.	MO	Unk	08/26/13
Contra Costa-6/NRG	337	g	Calif.	PMO	Unk	05/01/13
Contra Costa-7/NRG	337	g	Calif.	PMO	Unk	05/01/13
Desert Sunlight/NextEra	300	s	Calif.	MO	Unk	08/15/13
El Segundo-3/NRG	335	g	Calif.	MO	Unk	07/23/13
Huntington Beach-3/AES	225	g	Calif.	PMO	Unk	04/14/13
Huntington Beach-4/AES	215	g	Calif.	PMO	Unk	04/14/13
Mexicali/Sempre	180	g	Calif.	PMO	Unk	07/22/13
Pine Flat/USACE	210	h	Calif.	PMO	Unk	08/11/13
San Onofre-2/SCE	1124	n	Calif.	PMO	Retired	01/09/12
San Onofre-3/SCE	1126	n	Calif.	MO	Retired	01/31/12

MWh. In California, SP15 on-peak September added \$1 with bids at \$50 and offers at \$50.50/MWh. October advanced 75 cents to about \$47/MWh, and fourth quarter rose 50 cents to about \$46/MWh. NP15 September spiked \$1.25 to about \$46.50/MWh, and fourth quarter rose 65 cents to about \$43.15/MWh. Palo Verde September rose 75 cents to about \$38/MWh, October went up \$1.25 to about \$36.50/MWh, and the Q4 on-peak package had no bids or offers in late trading.

WEST POWER MARKETS

Most dailies rise; terms end mixed

Most Western power dailies were up Friday morning as California expected higher demand on Monday and on-peak Sunday hours were included in off-peak prices. Terms finished mixed, and the NYMEX November natural gas futures posted a preliminary settlement of \$3.589/MMBtu, up 2.2 cents.

In the Northwest, Mid-Columbia day-ahead on-peak was down nearly \$2.75 to trade between \$23 and \$26/MWh for delivery on Monday. Mid-C day-ahead off-peak fell more than \$1.50 to trade between \$23.25 and \$25/MWh for delivery on all day Sunday and Monday.

Portland, Oregon's forecasts had highs from the upper 50s to mid-60s through Monday. Expected lows were from 50 to 55.

The Bonneville Power Administration's wind output was 2,456 MW, and its hydro output was 6,611 MW at 7 am PDT on Friday.

In California, SP15 next-day on-peak added more than \$3.25 to trade between \$43 and \$43.25/MWh. SP15 day-ahead off-peak gained \$4.75 to about \$36.50/MWh. NP15 day-ahead on-peak rose \$1 to around \$40.25/MWh. NP15 day-ahead off-peak added \$2.50 to about \$35.25/MWh.

Sacramento, California, expected highs from the low 70s to 80 and lows from the high 40s to the high 50s. Forecast highs for Burbank were from the low 80s to 90 and anticipated lows were near 60.

The California Independent System Operator projected peak demand to be 29,817 MW on Friday, 29,191 MW on Saturday, 29,332 MW on Sunday, and 31,755 MW on Monday. Renewables were 2,870 MW, and wind was about 1,250 MW at 7 am PDT on Friday.

In the desert Southwest, Palo Verde next-day on-peak was up nearly \$2.50 to trade between \$28.50 and \$33/MWh. Palo Verde day-ahead off-peak also climbed more than \$2.50 to about \$26/MWh.

Phoenix expected highs around 90 and lows from the mid-60s to 70.

Next-day natural gas prices were slightly weaker in the Rockies and California. Opal was down 1.7 cents to \$3.238/MMBtu, Pacific Gas and Electric city-gate fell 1.5 cents to \$3.830/MMBtu, and SoCal city-gate dropped 1.9 cents to \$3.606/MMBtu.

Day-ahead prices were mixed in the California Independent System Operator auction Friday afternoon. SP15 on-peak gained 13 cents to \$46.63/MWh, as SP15 off-peak added 92 cents to \$33.30/MWh. NP15 on-peak was down \$3.45 to \$37.57/MWh, and NP15 off-peak rose 66 cents to \$33.67/MWh. ZP26 on-peak fell \$3.19 to \$36.15, while ZP26 off-peak increased 76 cents to \$32.48/MWh.

Day-ahead markets for delivery Sep 30 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	29.99	-0.04	29.75-30.25	21	650	41.96
Mid-C	24.27	-2.82	23.00-26.00	94	2,375	38.09
Palo Verde	31.92	2.14	28.50-33.00	23	700	36.74
Mead	33.16	1.97	33.00-33.75	5	350	40.08
Mona	26.00	-1.00	26.00-26.00	N.A.	N.A.	38.22
Four Corners	28.50	-0.50	28.50-28.50	N.A.	N.A.	38.79
NP15	40.25	1.00	40.25-40.25	N.A.	N.A.	45.23
SP15	43.25	3.50	43.25-43.25	N.A.	N.A.	48.91

Off-Peak						
COB	26.04	0.10	25.75-26.25	15	475	30.83
Mid-C	24.04	-1.44	23.25-24.50	24	650	29.34
Palo Verde	26.04	2.62	25.75-26.15	11	400	27.83
Mead	24.60	-0.08	22.40-28.00	9	525	28.62
Mona	23.75	3.00	23.75-23.75	N.A.	N.A.	25.09
Four Corners	22.00	-0.50	22.00-22.00	N.A.	N.A.	27.20
NP15	35.25	2.50	35.25-35.25	N.A.	N.A.	35.58
SP15	36.50	4.75	36.50-36.50	N.A.	N.A.	36.88

West off-peak includes all day Sunday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	09/25	27.25-27.75

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Alta-6/TerraGen	150	w	Calif.	MO	Unk	09/25/13
Des Sunlight/NextEra	250	s	Calif.	MO	Unk	09/08/13
Helms-3/PG&E	404	h	Calif.	MO	Unk	09/22/13
Los Esteros/Calpine	180	g	Calif.	PMO	Unk	07/22/13
Mexlcal-1/Sempra	625	g	Calif.	MO	Unk	09/26/13
Pine Flat/USACE	210	h	Calif.	PMO	Unk	08/11/13

In the Northwest, Mid-Columbia on-peak October fell 25 cents with bids at \$30 and offers at \$30.25/MWh on ICE around 2:30 pm EDT. The fourth quarter crept down 15 cents to about \$35.35/MWh, and the first quarter of 2014 had no bids or offers. In California, SP15 on-peak October financial terms were unmoved with bids at \$42 and offers at \$42.25/MWh. Fourth quarter was virtually constant at about \$42.35/MWh, and first quarter inched down 15 cents to about \$43/MWh. NP15 October fell 25 cents to about \$41/MWh, and Q4 fell 25 cents to about \$41.60/MWh. Palo Verde October rose 50 cents to about \$35/MWh, fourth quarter climbed 60 cents to about \$34/MWh, and on-peak first quarter had no bids or offers in late trading.

WEST POWER MARKETS

Most dailies decline; terms finish mixed

Most Western dailies were down Wednesday morning as spot natural gas prices in the region were lower and despite higher peak demand expected in California. Terms ended mixed and the NYMEX December natural gas futures contract posted a preliminary settlement Wednesday of \$3.62/MMBtu, down 0.9 cent.

In the Northwest, Mid-Columbia day-ahead on-peak fell almost \$3.50 to trade between \$35 and \$36.75/MWh for delivery on Thursday. Mid-C day-ahead off-peak was down more than \$7.25 to trade between \$27.75 and \$33/MWh.

Portland, Oregon's forecasts had highs in the upper 50s and lows from high 30s to the high 40s through Thursday.

The Bonneville Power Administration's wind output was 319 MW, and its hydro output was 8,388 MW at 7 am PDT on Wednesday.

Flows at the Grand Coulee Dam were expected to be higher from October 31 through November 4.

In California, SP15 next-day on-peak lost 75 cents to about \$44.50/MWh. SP15 day-ahead off-peak fell more than \$1 to trade between \$34 and \$35/MWh. NP15 day-ahead on-peak was down almost 25 cents to trade between \$41 and \$41.25/MWh. NP15 day-ahead off-peak was flat at about \$35/MWh.

Sacramento, California, expected highs from the upper 60s to the low 70s and lows in the low 40s. Burbank's forecasts had highs from the low 70s to about 80 and lows near 50.

The California Independent System Operator projected peak demand to be 28,879 MW on Wednesday and 29,719 MW on Thursday. Renewables were 2,116 MW, and wind was less than 600 MW at 7 am PDT on Wednesday.

In the desert Southwest, Palo Verde next-day on-peak rose more than 50 cents, trading between \$34.25 and \$34.75/MWh. Palo Verde day-ahead off-peak was down nearly 50 cents to trade between \$27.75 and \$28/MWh.

Phoenix expected highs from near 70 to the mid-70s and lows in the low 50s.

Next-day natural gas prices retreated in the Rockies and California. Opal fell 2 cents to \$3.605/MMBtu, Pacific Gas and Electric city-gate lost less than 1 cent to \$3.932/MMBtu, and SoCal city-gate gave up 5.5 cents to \$3.875/MMBtu.

Most day-ahead prices were mixed in the California Independent System Operator auction Wednesday afternoon.

SP15 on-peak added 22 cents to \$44.82/MWh, as SP15 off-peak gained 37 cents to \$35.16/MWh. NP15 on-peak fell 91 cents to \$40.93/MWh, and NP15 off-peak dropped 15 cents to \$34.85/MWh. ZP26 on-peak shed \$1.67 to \$39.49/MWh, while ZP26 off-peak rose 9 cents to \$34.70/MWh.

In the Northwest, Mid-Columbia on-peak November was unchanged with bids at \$38 and offers at \$38.45/MWh on ICE around 2:30 pm EDT. December fell 25 cents to about \$40.75/MWh, but the first quarter crept up 10 cents to about \$35/

Day-ahead markets for delivery Oct 31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	36.91	-2.79	36.25-37.75	8	275	38.80
Mid-C	35.50	-3.36	35.00-38.75	68	1,775	36.85
Palo Verde	34.50	0.73	34.50-34.50	N.A.	N.A.	34.13
Mead	34.50	0.25	34.50-34.50	N.A.	N.A.	34.88
Mona	33.25	-1.00	33.25-33.25	N.A.	N.A.	33.08
Four Corners	33.50	-0.50	33.50-33.50	N.A.	N.A.	33.32
NP15	41.00	-0.25	41.00-41.00	N.A.	N.A.	40.97
SP15	44.50	-0.75	44.50-44.50	N.A.	N.A.	42.82
Off-Peak						
COB	30.25	-4.25	30.25-30.25	N.A.	N.A.	31.06
Mid-C	29.87	-5.32	27.75-31.25	67	1,750	30.65
Palo Verde	27.75	-0.50	27.75-27.75	N.A.	N.A.	28.11
Mead	28.25	-0.50	28.25-28.25	N.A.	N.A.	28.60
Mona	25.25	-0.50	25.25-25.25	N.A.	N.A.	24.92
Four Corners	27.00	-0.75	27.00-27.00	N.A.	N.A.	26.50
NP15	34.75	-0.25	34.75-34.75	N.A.	N.A.	34.56
SP15	34.25	-1.00	34.25-34.25	N.A.	N.A.	34.74

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	10/29	37.75-38.25
Bal-month	10/24	42.50-43.00
SP15		
Bal-month	10/24	41.50-42.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
ACE Cogen/Constellation	118	g	Calif.	MO	Unk	09/29/13
Colgate-1/PCWA	173	h	Calif.	PMO	Unk	10/03/13
Crockett Cogen/EIF	240	g	Calif.	PMO	Unk	10/27/13
El Segundo-7&8/NRG	264	g	Calif.	MO	Unk	10/23/13
Gateway/PG&E	590	g	Calif.	PMO	Unk	10/24/13
Genesis/NextEra	250	s	Calif.	PMO	Unk	10/10/13
Gilroy Cogen/Calpine	120	g	Calif.	PMO	Unk	10/28/13
Helms-1/PG&E	407	h	Calif.	PMO	Unk	10/07/13
Huntington Beach-1/AES	226	g	Calif.	PMO	Unk	10/28/13
Huntington Beach-2/AES	226	g	Calif.	PMO	Unk	10/28/13
Ivanpah-1/NRG	123	s	Calif.	PMO	Unk	10/10/13
Ivanpah-3/NRG	133	s	Calif.	PMO	Unk	10/10/13
Kerckhoff-1/PG&E	118	h	Calif.	PMO	Unk	10/29/13
Mountain View-3/Iberdrola	525	w	Calif.	PMO	Unk	10/01/13
Pine Flat/USACE	210	h	Calif.	PMO	Unk	10/02/13
Solar Star-1/MidAmerican	310	s	Calif.	MO	Unk	10/01/13
Solar Star-2/MidAmerican	270	s	Calif.	MO	Unk	10/01/13
Sunset Cogen/Midway	240	g	Calif.	MO	Unk	10/29/13
Tracy/Highstar Capital	332	g	Calif.	PMO	Unk	10/28/13

MWh. In California, SP15 on-peak November financial terms were unmoved with bids at \$43.25 and offers at \$43.70/MWh. December stayed at about \$42/MWh, and first quarter rose 25 cents to about \$42.65/MWh. NP15 November rose 25 cents to about \$41.50/MWh, but December fell 25 cents to about \$41.25/MWh. Palo Verde November dipped 50 cents to about \$32.25/MWh, on-peak December had no bids or offers, and first quarter inched down 15 cents to about \$34.25/MWh.

WEST POWER MARKETS

Dailies mixed; terms surge

Western dailies were mixed Tuesday morning, despite lower demand expected in California and weaker spot natural gas prices in the region. Terms surged. The NYMEX December natural gas futures contract rolled off the board Wednesday at \$3.818/MMBtu, settling 2.9 cents higher in a late round of position-squaring ahead of the close.

In the Northwest, Mid-Columbia day-ahead on-peak fell almost \$4.25 to trade between \$34.25 and \$37.25/MWh for delivery on Thursday, Friday, and Saturday because of Thanksgiving. Mid-C day-ahead off-peak was up more than \$1.75, to trade between \$34 and \$35.75/MWh.

Forecasts for Portland, Oregon have highs from 50 to 55 and lows from the mid-30s to the low 40s through Saturday.

The Bonneville Power Administration's wind power output was 1 MW and its hydro output was 9,477 MW at 7 am PST Tuesday.

In California, SP15 next-day on-peak lost more than \$3.75, trading between \$43 and \$44/MWh. SP15 day-ahead off-peak added \$2 to reach about \$38.50/MWh.

NP15 day-ahead on-peak was down \$3.25 to about \$43/MWh. NP15 day-ahead off-peak dropped more than \$2.25 to around \$38.50/MWh.

Sacramento, California, is expecting highs from the upper 50s to the mid-60s, with lows from the high 30s to near 45 through Saturday. Forecasts for Burbank, California have highs from around 65 to 75 and lows at about 50.

The California Independent System Operator projected peak demand to be 30,674 MW on Tuesday, 30,434 MW Wednesday, 24,664 MW Thursday, 27,186 MW Friday and 27,635 MW Saturday. Renewable power output was 1,924 MW at 7 am PST Tuesday, with wind less than 200 MW.

In the desert Southwest, Palo Verde next-day on-peak gave up nearly \$2.50 to trade between \$32.75 and \$34.50/MWh. Palo Verde day-ahead off-peak was up 50 cents to around \$30/MWh.

Phoenix expects highs from near 70 to the low 70s, with lows from the high 40s to the low 50s.

Next-day natural gas prices in the Rockies and California were lower. Opal fell 10.8 cents to \$3.752/MMBtu, PG&E city-gate dropped less than one cent to \$3.994/MMBtu, and SoCal Gas city-gate lost 2.9 cents to \$4.001/MMBtu.

Day-ahead prices were down in the ISO auction on Tuesday afternoon. SP15 on-peak fell \$2.81 to \$44.79/MWh as SP15 off-peak lost \$2.35 to \$36.30/MWh.

NP15 on-peak dropped \$2.59 to \$44.95/MWh and NP15 off-peak slipped \$2.11 to \$36.59/MWh. ZP26 on-peak was down \$2.29 to \$43.44/MWh while ZP26 off-peak decreased \$2.18 to \$35.39/MWh.

Western US on-peak December term prices surged Tuesday, as December natural gas futures rose in late trading.

In the Northwest, Mid-Columbia on-peak December added \$1.75, with bids at \$45.25 and offers at \$46/MWh on the IntercontinentalExchange around 2:30 pm EST. January gained

Day-ahead markets for delivery Nov 29-30 (\$/MWh)

West*	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	36.93	-5.57	36.50-37.00	5	175	40.10
Mid-C	36.21	-4.29	34.25-37.25	82	2,150	37.34
Palo Verde	33.78	-2.22	32.75-34.50	17	500	32.78
Mead	34.50	-3.50	34.50-34.50	N.A.	N.A.	34.51
Mona	34.00	-3.50	34.00-34.00	N.A.	N.A.	34.60
Four Corners	31.00	-5.50	31.00-31.00	N.A.	N.A.	33.67
NP15	41.75	-4.50	41.75-41.75	N.A.	N.A.	42.90
SP15	43.25	-3.75	43.25-43.25	N.A.	N.A.	44.13
Off-Peak						
COB	36.75	3.75	36.75-36.75	N.A.	N.A.	32.20
Mid-C	35.14	2.11	34.50-37.00	61	1,550	30.31
Palo Verde	30.00	0.50	30.00-30.00	N.A.	N.A.	27.98
Mead	31.25	1.50	31.25-31.25	N.A.	N.A.	28.99
Mona	29.00	1.50	29.00-29.00	N.A.	N.A.	26.31
Four Corners	27.00	-1.25	27.00-27.00	N.A.	N.A.	26.38
NP15	38.25	2.00	38.25-38.25	N.A.	N.A.	35.77
SP15	38.50	2.00	38.50-38.50	N.A.	N.A.	36.00

*West off-peak includes all day Thursday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Next-week	11/26	58.00-61.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
ACE Cogen/Constellation	118	g	Calif.	MO	Unk	09/29/13
Alamitos-2/AES	175	g	Calif.	MO	Unk	11/04/13
American Cogen/Calpine	135	g	Calif.	PMO	Unk	11/14/13
Beliden/PG&E	119	h	Calif.	MO	Unk	11/07/13
Coigate-1/PCWA	176	h	Calif.	PMO	Unk	11/25/13
Coram Brodie/Coram	102	w	Calif.	PMO	Unk	11/25/13
Genesis/NextEra	250	s	Calif.	PMO	Unk	10/10/13
Haas-1&2/PG&E	144	h	Calif.	PMO	Unk	11/17/13
Ivanpah-1/NRG	123	s	Calif.	PMO	Unk	10/10/13
Ivanpah-3/NRG	133	s	Calif.	PMO	Unk	10/10/13
Kerckhoff-1/PG&E	154	h	Calif.	PMO	Unk	11/24/13
Metcalf/Calpine	593	g	Calif.	MO	Unk	11/24/13
Pine Flat/USACE	210	h	Calif.	PMO	Unk	10/02/13
Redondo-7/AES	506	g	Calif.	MO	Unk	11/21/13
Shiloh-2/EDF	150	w	Calif.	PMO	Unk	11/25/13
Shiloh-3/EDF	103	w	Calif.	MO	Unk	11/25/13
Shiloh-4/EDF	100	w	Calif.	MO	Unk	11/25/13
Solar Star-1/MidAmerican	310	s	Calif.	MO	Unk	10/01/13
Solar Star-2/MidAmerican	270	s	Calif.	MO	Unk	10/01/13
Tracy/Highstar Capital	332	g	Calif.	PMO	Unk	11/24/13

50 cents to about \$38.50/MWh and the first quarter of 2014 rose 25 cents to \$36/MWh.

In California, SP15 on-peak December financial terms advanced \$1.25, with bids at \$44.50 and offers at \$45/MWh. SP15 January rose 50 cents to \$42.75/MWh and Q1 2014 rose 50 cents to \$43.10/MWh. NP15 December surged \$1.75 to about \$45/MWh, as December rose 25 cents to about \$42/MWh.

Palo Verde December climbed \$1.25 to about \$36.75/MWh, January rose 50 cents to \$35.25/MWh and Q1 2014 rose 50 cents to about \$35/MWh.

WEST POWER MARKETS

West dailies turn lower; forwards up

Western dailies were down on Monday morning as lower peak demand was expected in California and with the move away from on-peak hours in the off-peak package. Terms were higher. The NYMEX February natural gas futures contract settled 5.9 cents higher at \$4.427/MMBtu Monday as traders eyed below-average temperature forecasts for much of the US at the start of January.

Mid-Columbia day-ahead on-peak fell more than \$4.75 to trade between \$40.25 and \$42.25/MWh for delivery on Tuesday. Mid-C day-ahead off-peak lost more than \$5.50 to trade between \$35 and \$37.50/MWh.

Portland, Oregon's forecasts had highs in the upper 40s and lows in the high 30s through Tuesday.

The Bonneville Power Administration's wind output was 74 MW and its hydro output was 8,851 MW at 7 am PST on Monday.

In California, SP15 next-day on-peak dropped more than \$2 to trade between \$46.75 and \$47/MWh. SP15 day-ahead off-peak decreased more than \$4.50 to trade between \$38.75 and \$39.25/MWh. NP15 day-ahead on-peak was down 75 cents to about \$46.75/MWh. NP15 day-ahead off-peak retreated \$2.75 to around \$39.75/MWh. Sacramento, California, expected highs from 60 to the low 60s and lows from 30 to the low 30s. Burbank's forecasts had highs near 70 on Tuesday, down about 10 degrees, and lows in the low 40s.

The California Independent System Operator projected peak demand to be 29,901 MW on Monday and 29,244 MW on Tuesday. Renewables were 1,546 MW and wind was more than 100 MW at 7 am PST on Monday.

In the desert Southwest, Palo Verde next-day on-peak was down nearly 75 cents to trade between \$38.75 and \$39.50/MWh. Palo Verde day-ahead off-peak gave up more than \$2.50 to trade between \$31.75 and \$32.25/MWh.

Phoenix expected highs from the upper 60s to about 70 and lows near 45.

Next-day natural gas prices in the Rockies and California were higher. Opal added 7 cents to \$4.385/MMBtu, PG&E city-gate gained 1.5 cents to \$4.630/MMBtu, and SoCal city-gate rose 4.6 cents to \$4.646/MMBtu.

Day-ahead prices were down in the ISO auction on Monday afternoon following lower peak load forecasts. SP15 on-peak fell \$2.68 to \$45.61/MWh as SP15 off-peak lost 7 cents to \$39.07/MWh.

NP15 on-peak dropped \$2.75 to \$45.17/MWh and NP15 off-peak slid 74 cents to \$38.84/MWh. ZP26 on-peak declined \$2.52 to \$43.78/MWh while ZP26 off-peak gave up 30 cents to \$37.90/MWh.

Western US on-peak January terms moved up Monday, as did February natural gas futures in late trading. February

Day-ahead markets for delivery Dec 31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	41.75	-5.00	41.75-41.75	N.A.	N.A.	56.59
Mid-C	41.39	-4.74	40.25-42.25	88	2,500	55.97
Palo Verde	39.25	-0.75	39.25-39.25	N.A.	N.A.	44.82
Mead	40.25	-0.75	40.25-40.25	N.A.	N.A.	47.10
Mona	40.00	-1.00	40.00-40.00	N.A.	N.A.	51.10
Four Corners	40.25	0.25	40.25-40.25	N.A.	N.A.	48.29
NP15	46.75	-0.75	46.75-46.75	N.A.	N.A.	53.15
SP15	47.00	-1.75	47.00-47.00	N.A.	N.A.	52.14
Off-Peak						
COB	37.50	-5.25	37.50-37.50	N.A.	N.A.	44.77
Mid-C	36.61	-5.34	35.25-38.00	46	1,225	44.02
Palo Verde	31.75	-2.75	31.75-31.75	N.A.	N.A.	36.99
Mead	32.75	-1.50	32.75-32.75	N.A.	N.A.	38.51
Mona	31.00	-3.50	31.00-31.00	N.A.	N.A.	38.48
Four Corners	31.50	-3.00	31.50-31.50	N.A.	N.A.	38.78
NP15	39.75	-2.75	39.75-39.75	N.A.	N.A.	44.44
SP15	39.25	-4.50	39.25-39.25	N.A.	N.A.	44.04

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	12/27	45.00-48.00
Palo Verde		
Bal-month	12/27	39.00-41.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Ace Cogen/Constellation	118	g	Calif.	MO	Unk	09/29/13
Big Creek/SCE	820	h	Calif.	MO	Unk	12/13/13
Ivanpah-1/NRG	123	s	Calif.	PMO	Unk	10/10/13
Ivanpah-3/NRG	133	s	Calif.	PMO	Unk	10/10/13
Mountainview/Iberdrola	525	w	Calif.	MO	Unk	12/17/13
Pine Flat/USACE	210	h	Calif.	PMO	Unk	10/02/13
Solar Star-1/MidAmerican	310	s	Calif.	MO	Unk	10/01/13
Solar Star-2/MidAmerican	270	s	Calif.	MO	Unk	10/01/13

NYMEX gas futures gained 5.9 cents to about \$4.427/MMBtu.

In the Northwest, Mid-Columbia on-peak January rose 50 cents with bids at \$46 and offers at \$46.75/MWh on the IntercontinentalExchange around 2:30 p.m. EST. The first quarter rose 40 cents to about \$42.40/MWh, and the second quarter climbed 90 cents to about \$33.65/MWh.

In California, SP15 on-peak January financial terms added 50 cents with bids at \$48.50 and offers at \$49.75/MWh. Q1 rose 25 cents to about \$49.10/MWh, and Q2 crept up 15 cents to about \$45.40/MWh. NP15 January surged 75 cents to about \$49.25/MWh, and Q1 rose 45 cents to about \$48.10/MWh.

Palo Verde January jumped 50 cents to about \$41/MWh, Q1 rose 25 cents to about \$40.35/MWh, and Q2 advanced 60 cents to about \$39/MWh.

Weekly Water Quality System Status

Wednesday, January 02, 2013

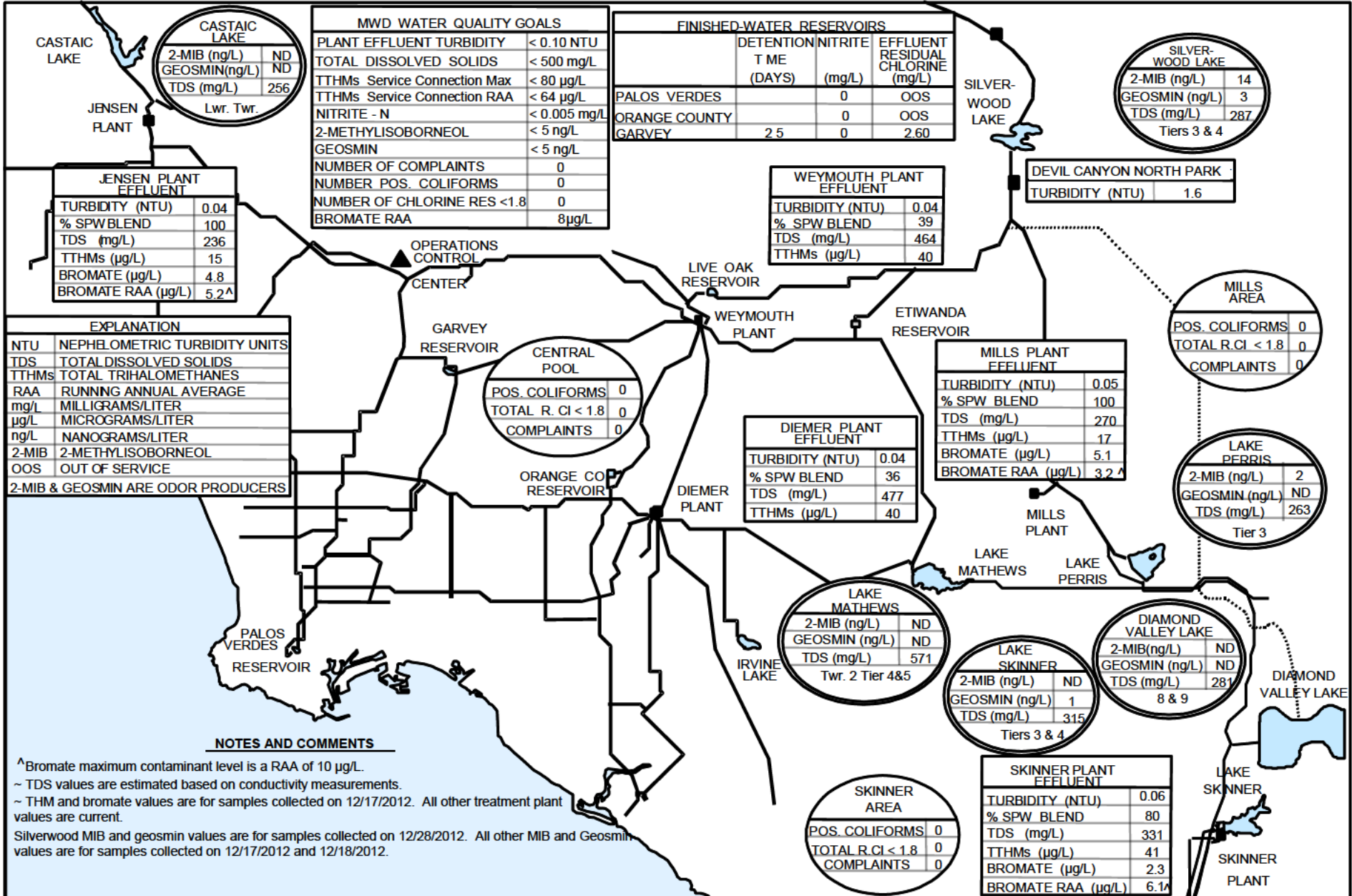
DTX-1126

Printed On: 1/4/2013 1:39:23 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, January 09, 2013

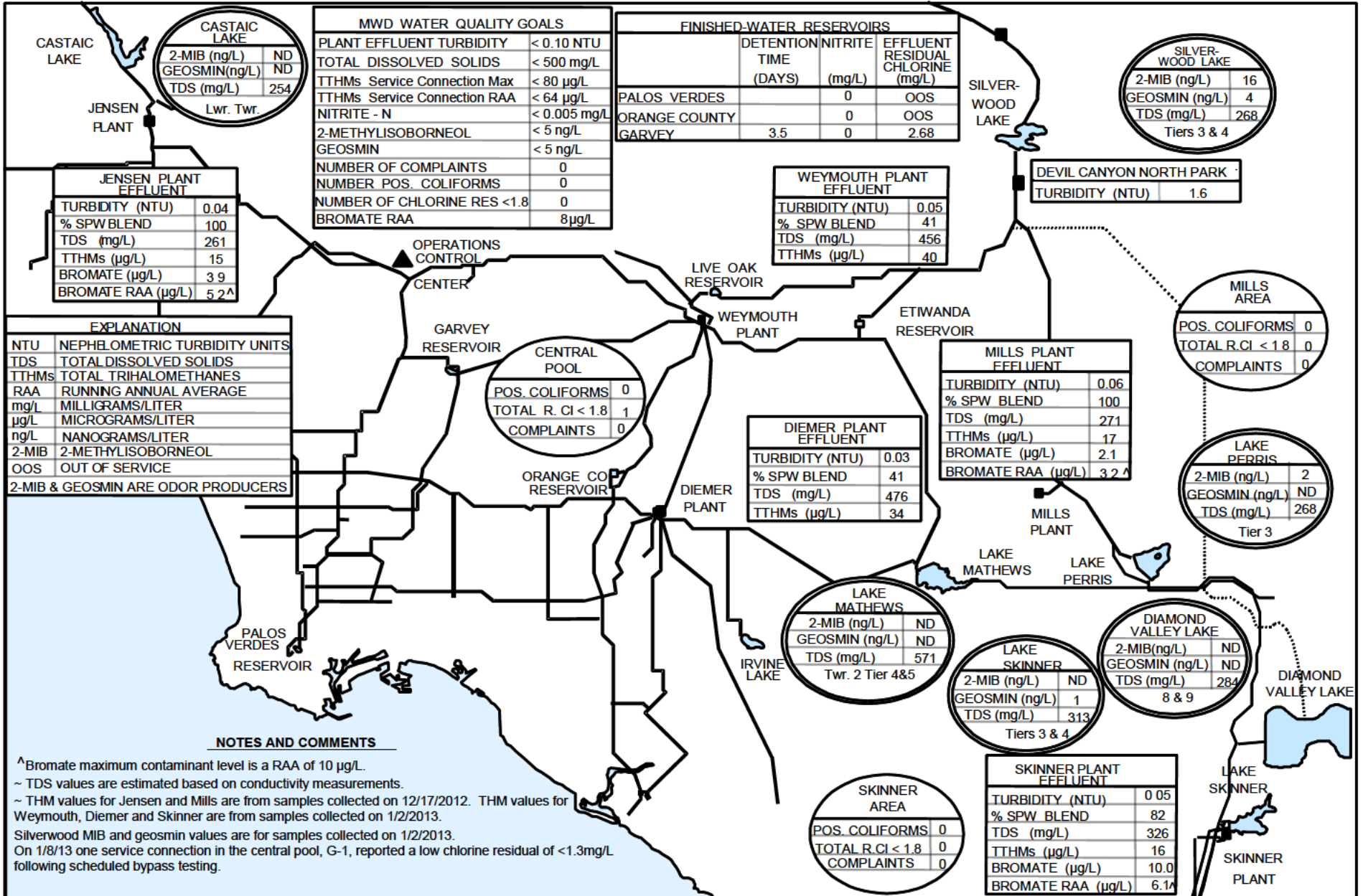
DTX-1126

Printed On: 1/9/2013 2:21:01 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, January 16, 2013

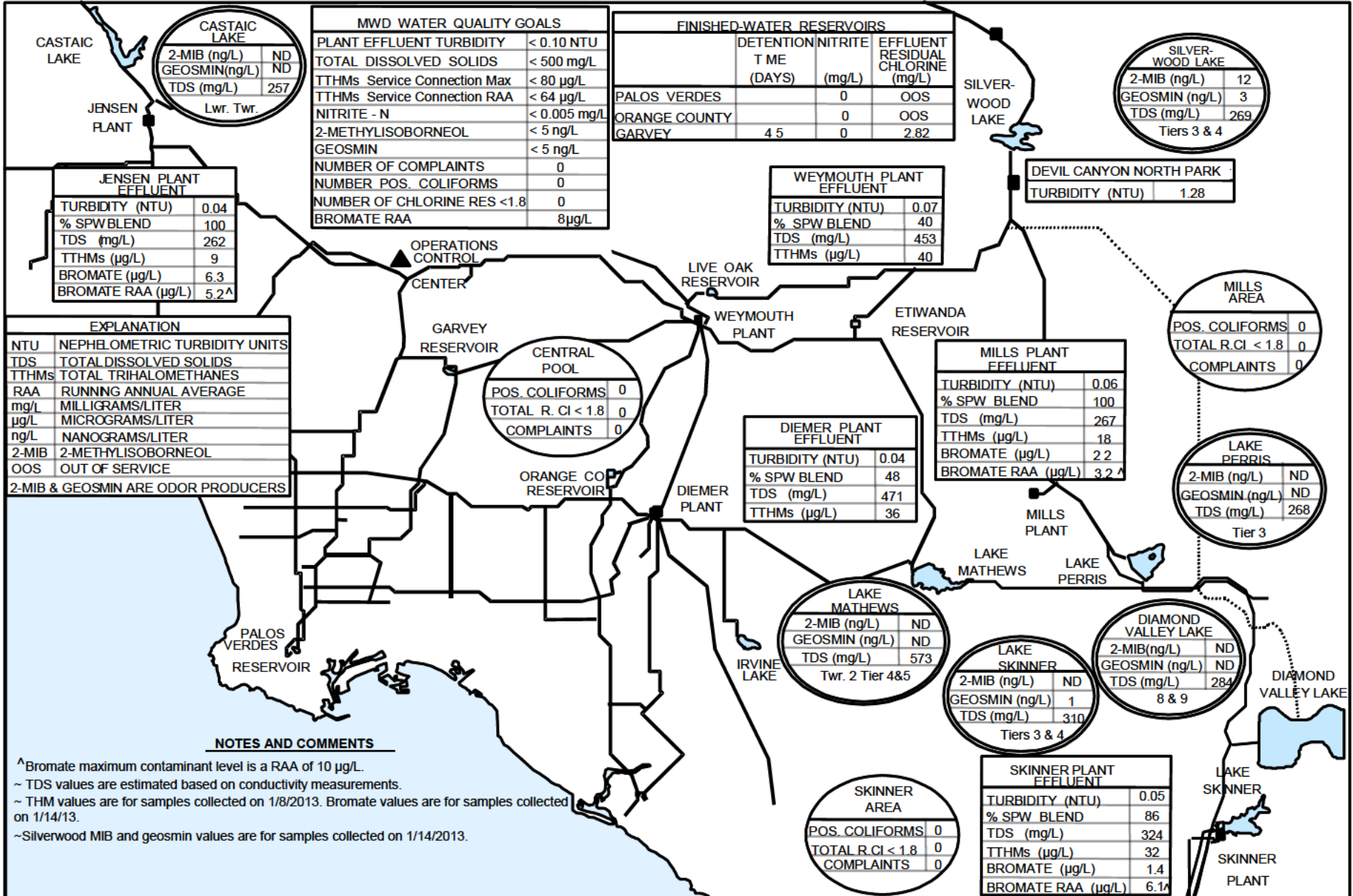
DTX-1126

Printed On: 1/16/2013 12:31:49 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



EXPLANATION

NTU	NEPHELOMETRIC TURBIDITY UNITS
TDS	TOTAL DISSOLVED SOLIDS
TTHMs	TOTAL TRIHALOMETHANES
RAA	RUNNING ANNUAL AVERAGE
mg/l	MILLIGRAMS/LITER
µg/L	MICROGRAMS/LITER
ng/L	NANOGRAMS/LITER
2-MIB	2-METHYLISOBORNEOL
OOS	OUT OF SERVICE
2-MIB & GEOSMIN ARE ODOR PRODUCERS	

NOTES AND COMMENTS

- [^]Bromate maximum contaminant level is a RAA of 10 µg/L.
- ~ TDS values are estimated based on conductivity measurements.
- ~ THM values are for samples collected on 1/8/2013. Bromate values are for samples collected on 1/14/13.
- ~Silverwood MIB and geosmin values are for samples collected on 1/14/2013.

MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, January 24, 2013

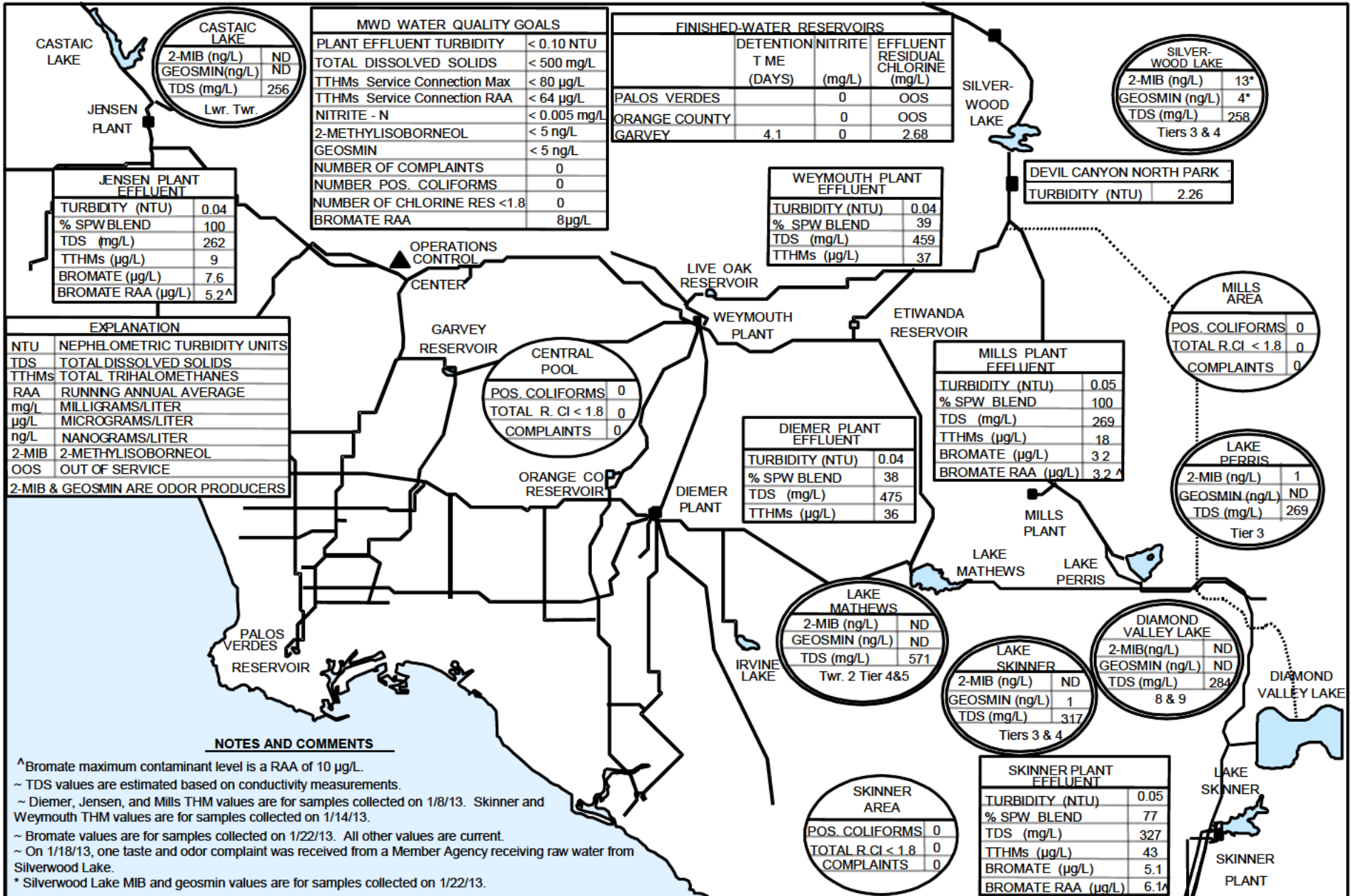
DTX-1126

Printed On: 1/24/2013 11:12:08 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, January 30, 2013

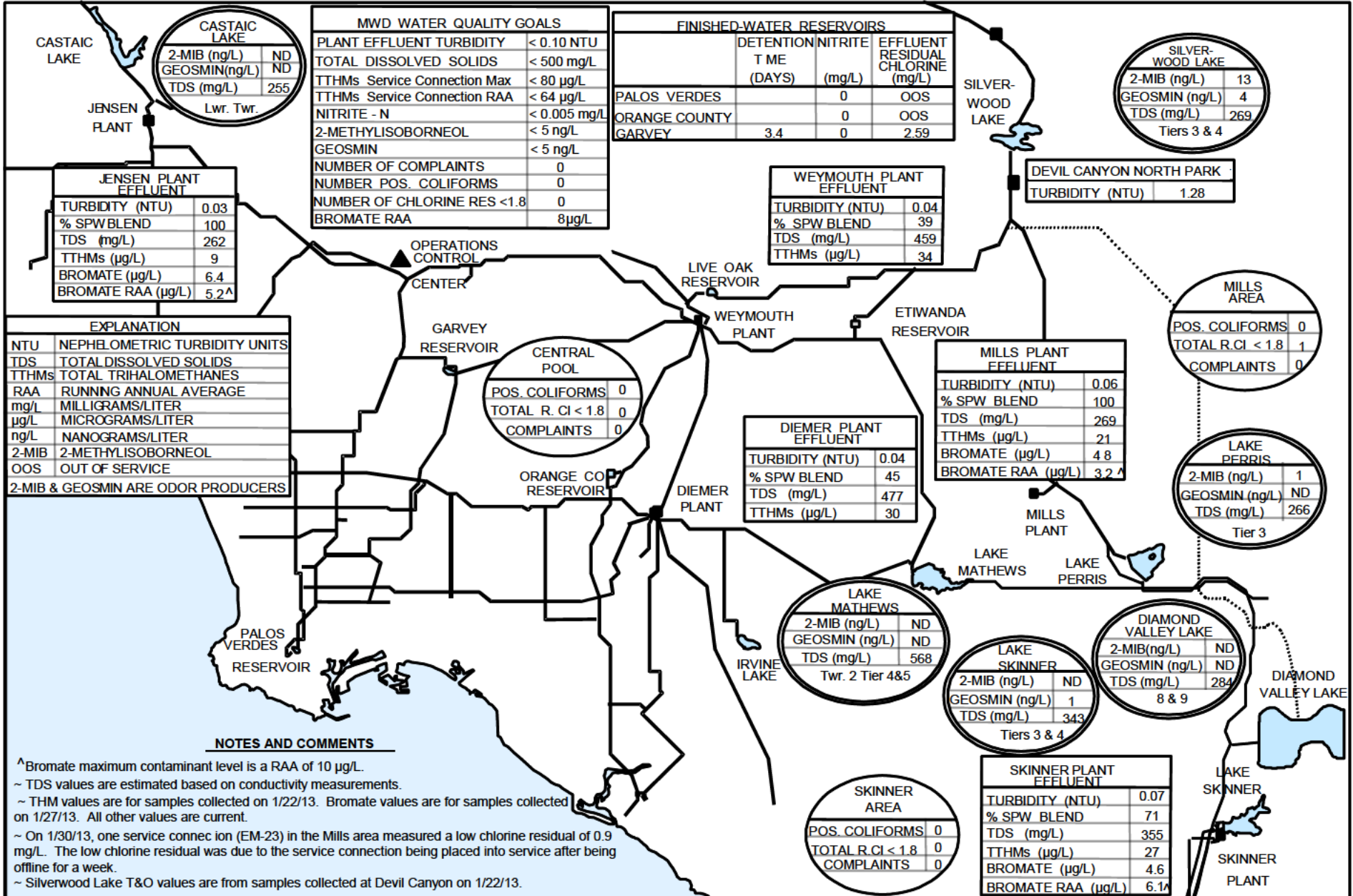
DTX-1126

Printed On: 1/30/2013 12:38:48 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, February 06, 2013

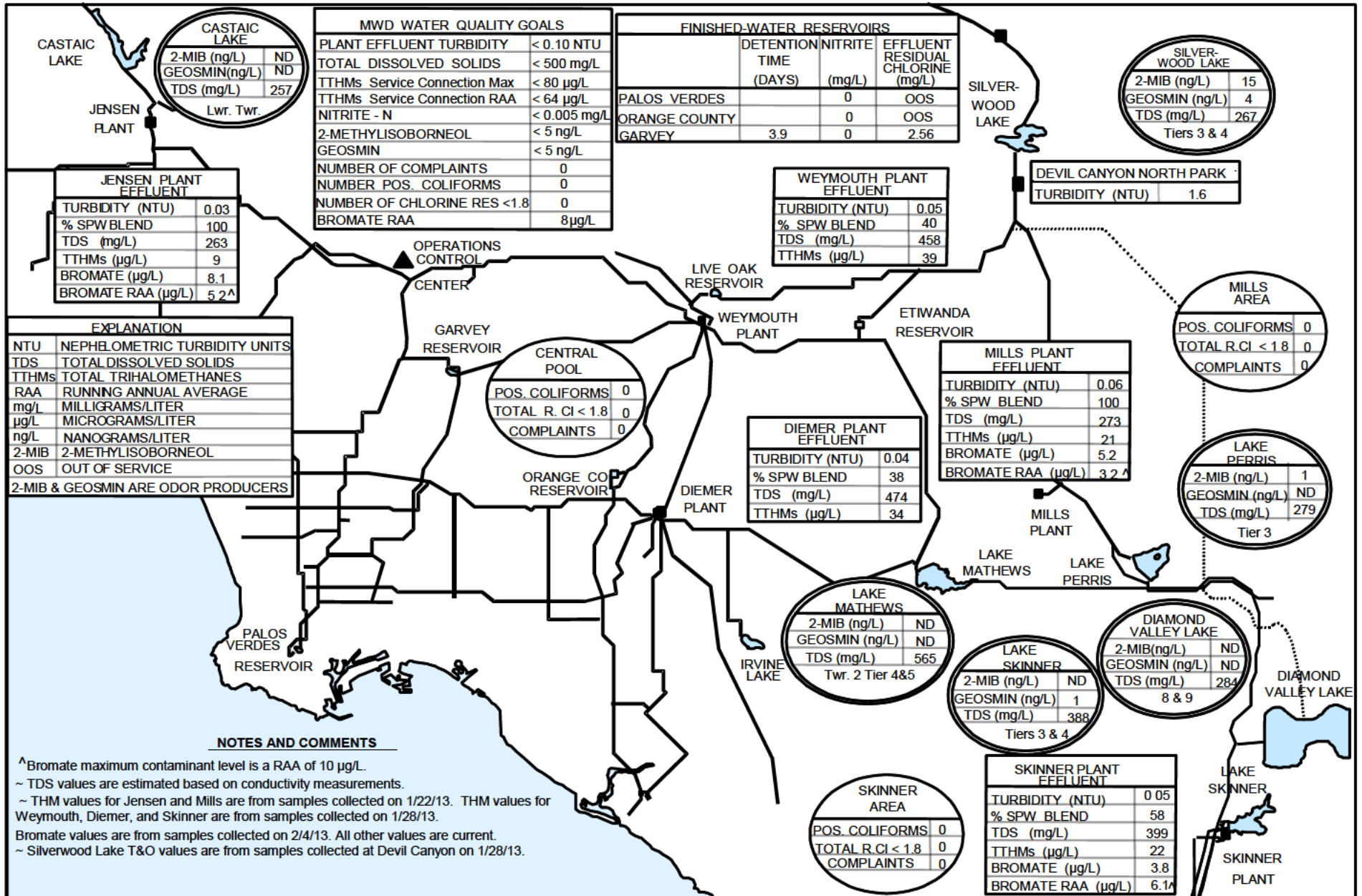
DTX-1126

Printed On: 2/6/2013 3:40:11 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, February 13, 2013

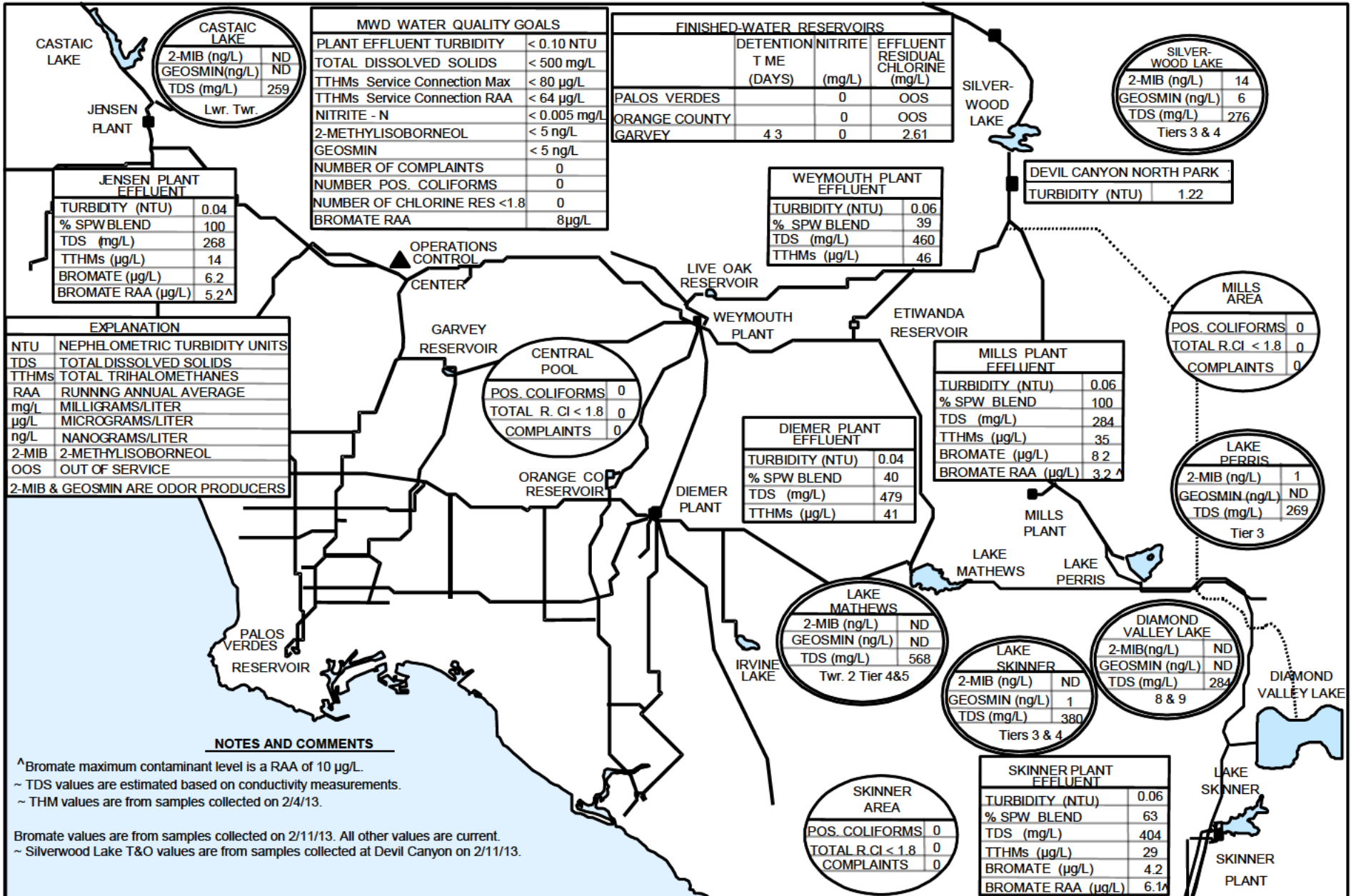
DTX-1126

Printed On: 2/13/2013 1:54:40 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, February 21, 2013

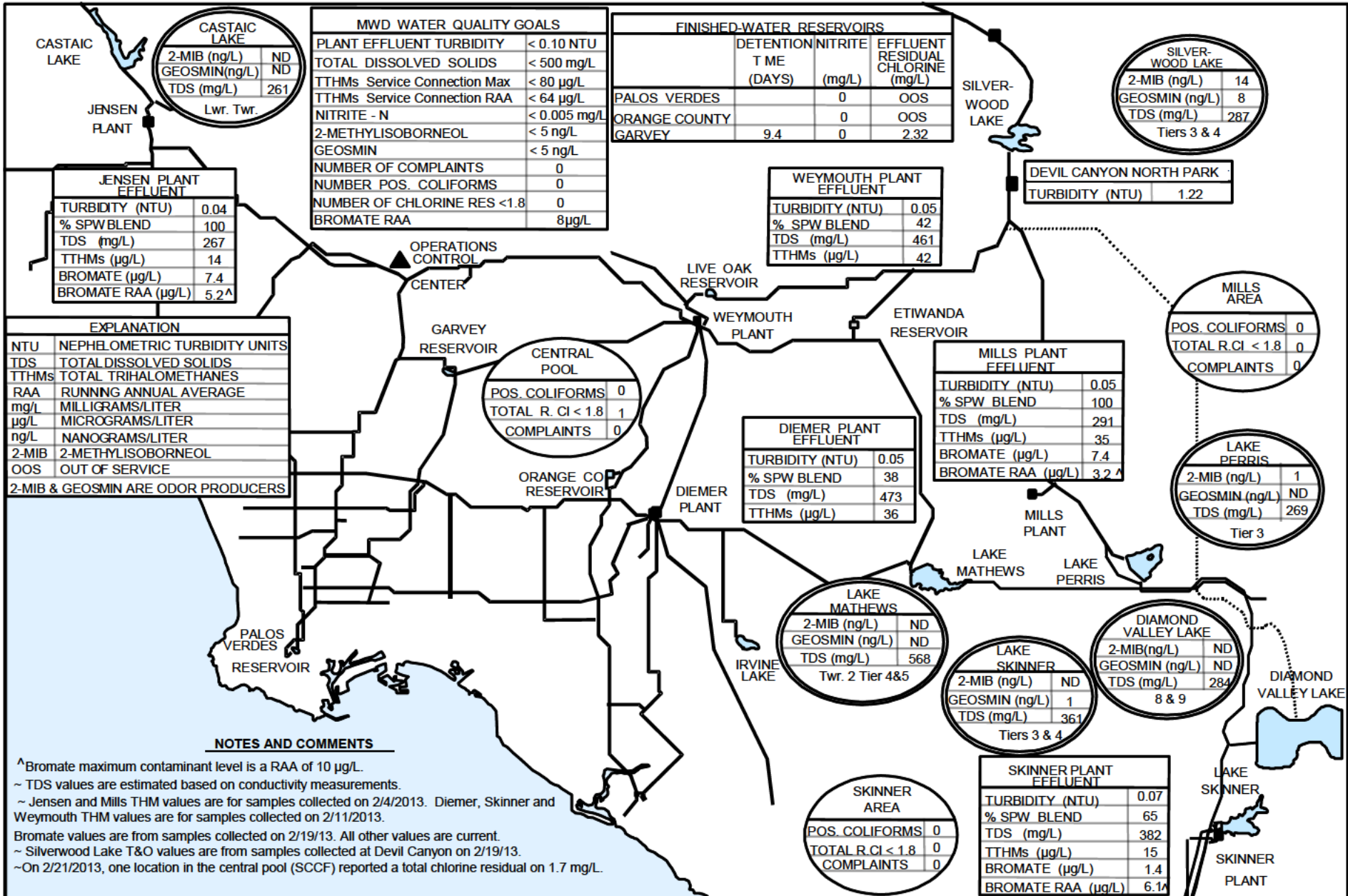
DTX-1126

Printed On: 2/21/2013 2:18:16 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



[^]Bromate maximum contaminant level is a RAA of 10 µg/L.
 ~ TDS values are estimated based on conductivity measurements.
 ~ Jensen and Mills THM values are for samples collected on 2/4/2013. Diemer, Skinner and Weymouth THM values are for samples collected on 2/11/2013.
 Bromate values are from samples collected on 2/19/13. All other values are current.
 ~ Silverwood Lake T&O values are from samples collected at Devil Canyon on 2/19/13.
 ~ On 2/21/2013, one location in the central pool (SCCF) reported a total chlorine residual on 1.7 mg/L.

MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Friday, March 1, 2013

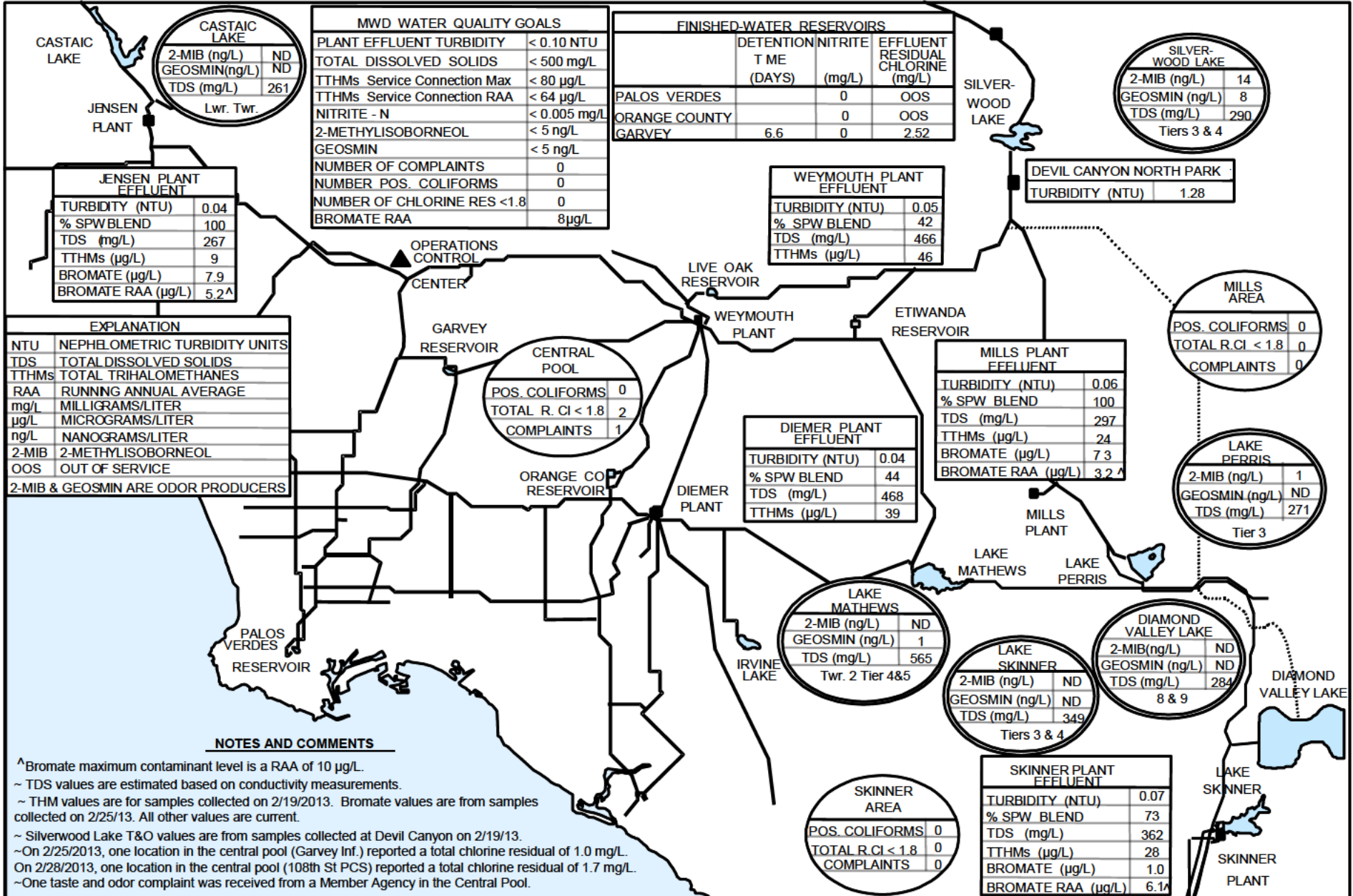
DTX-1126

Printed On: 3/1/2013 8:30:38 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, March 06, 2013

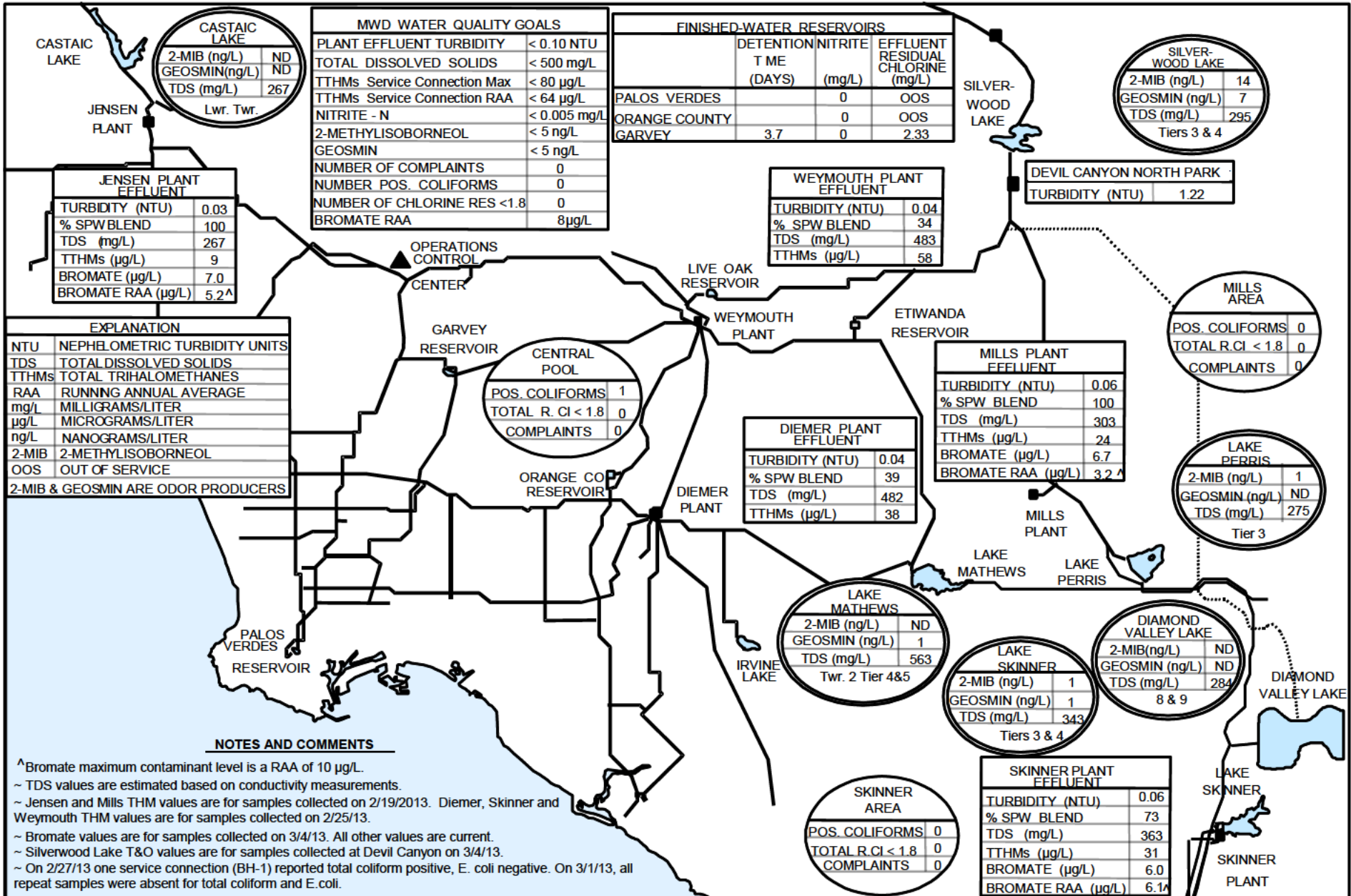
DTX-1126

Printed On: 3/6/2013 1:21:45 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, March 13, 2013

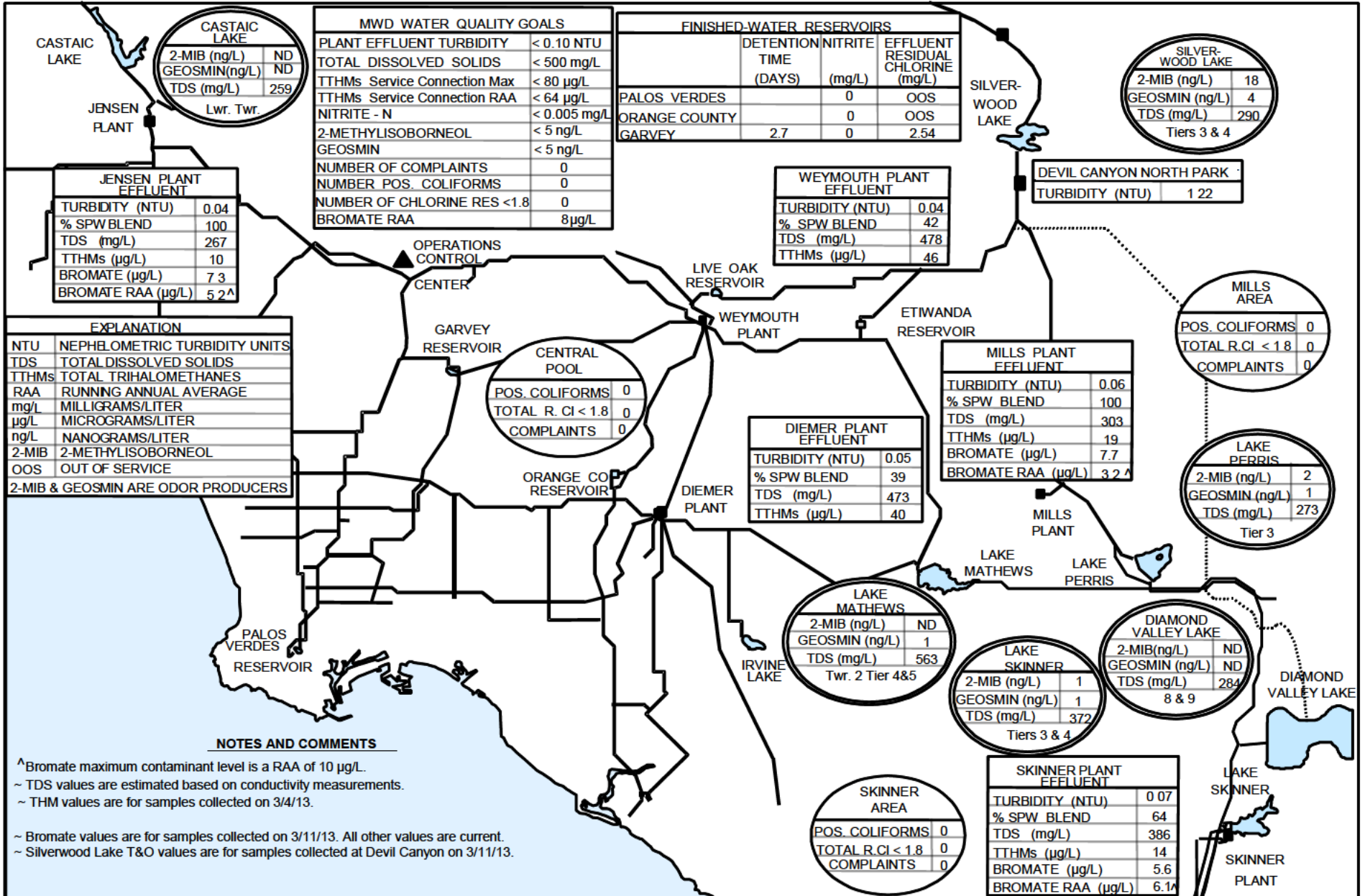
DTX-1126

Printed On: 3/13/2013 2:58:38 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, March 20, 2013

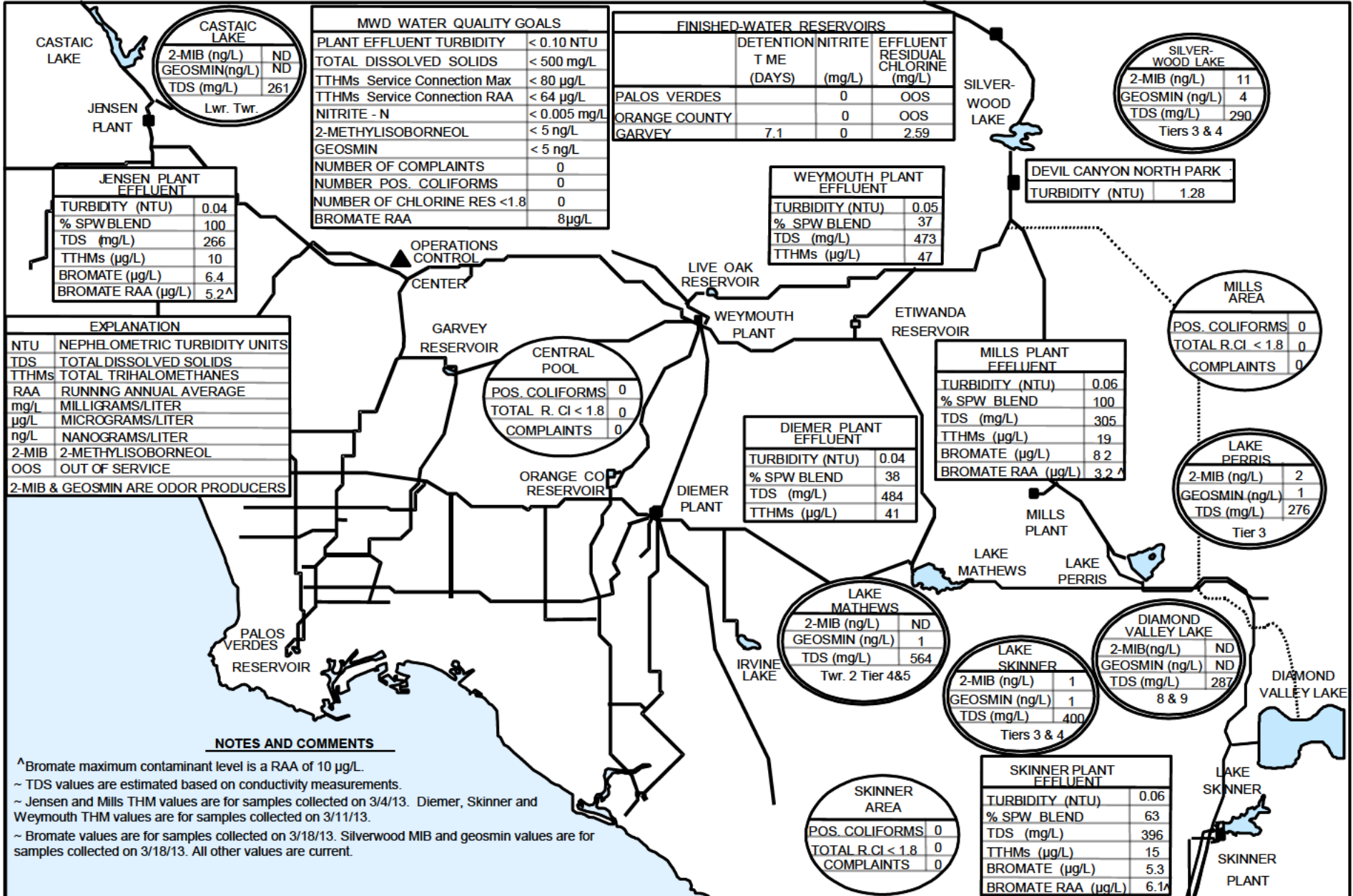
DTX-1126

Printed On: 3/20/2013 1:51:51 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, March 27, 2013

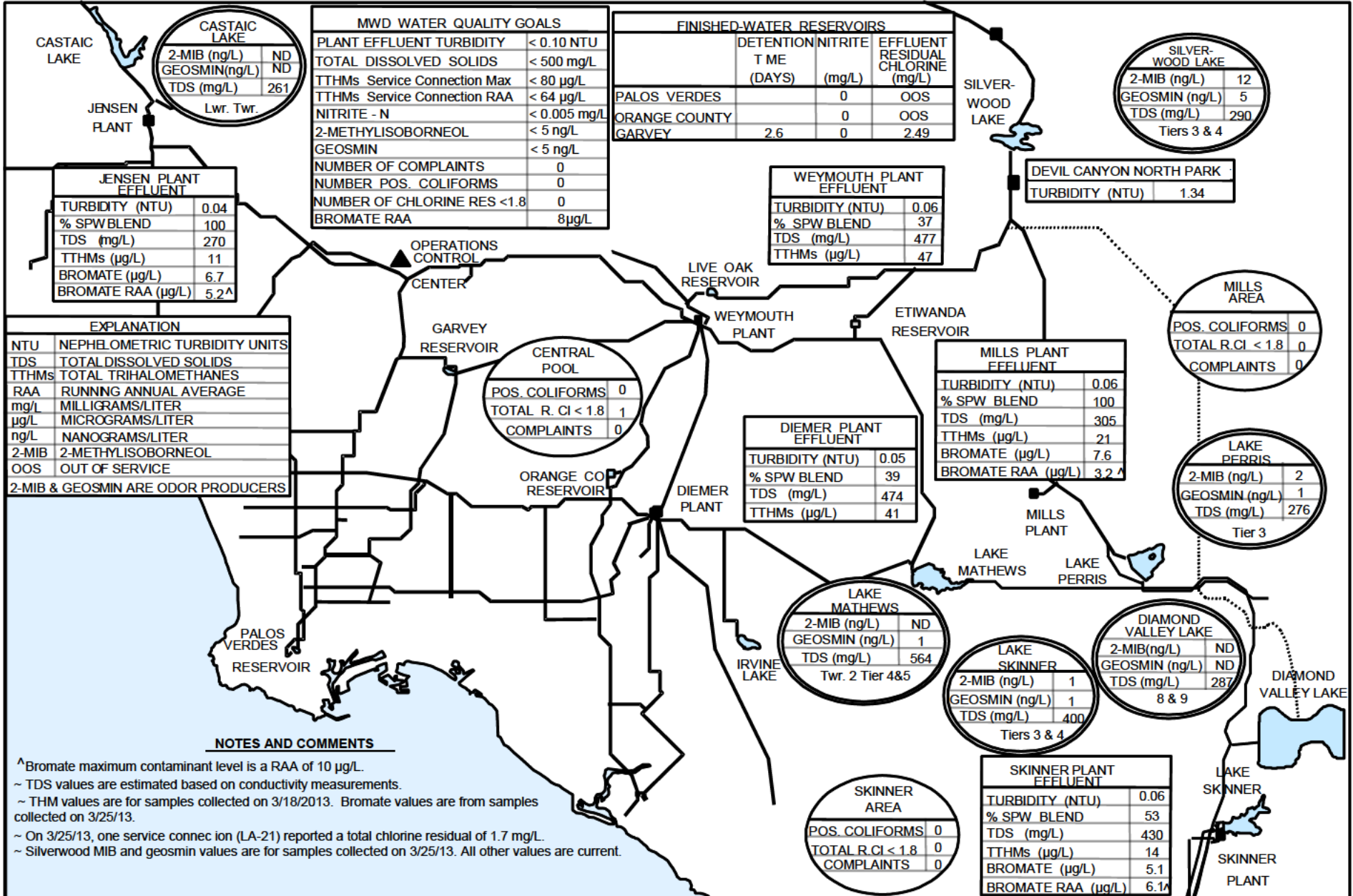
DTX-1126

Printed On: 3/27/2013 1:28:59 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, April 03, 2013

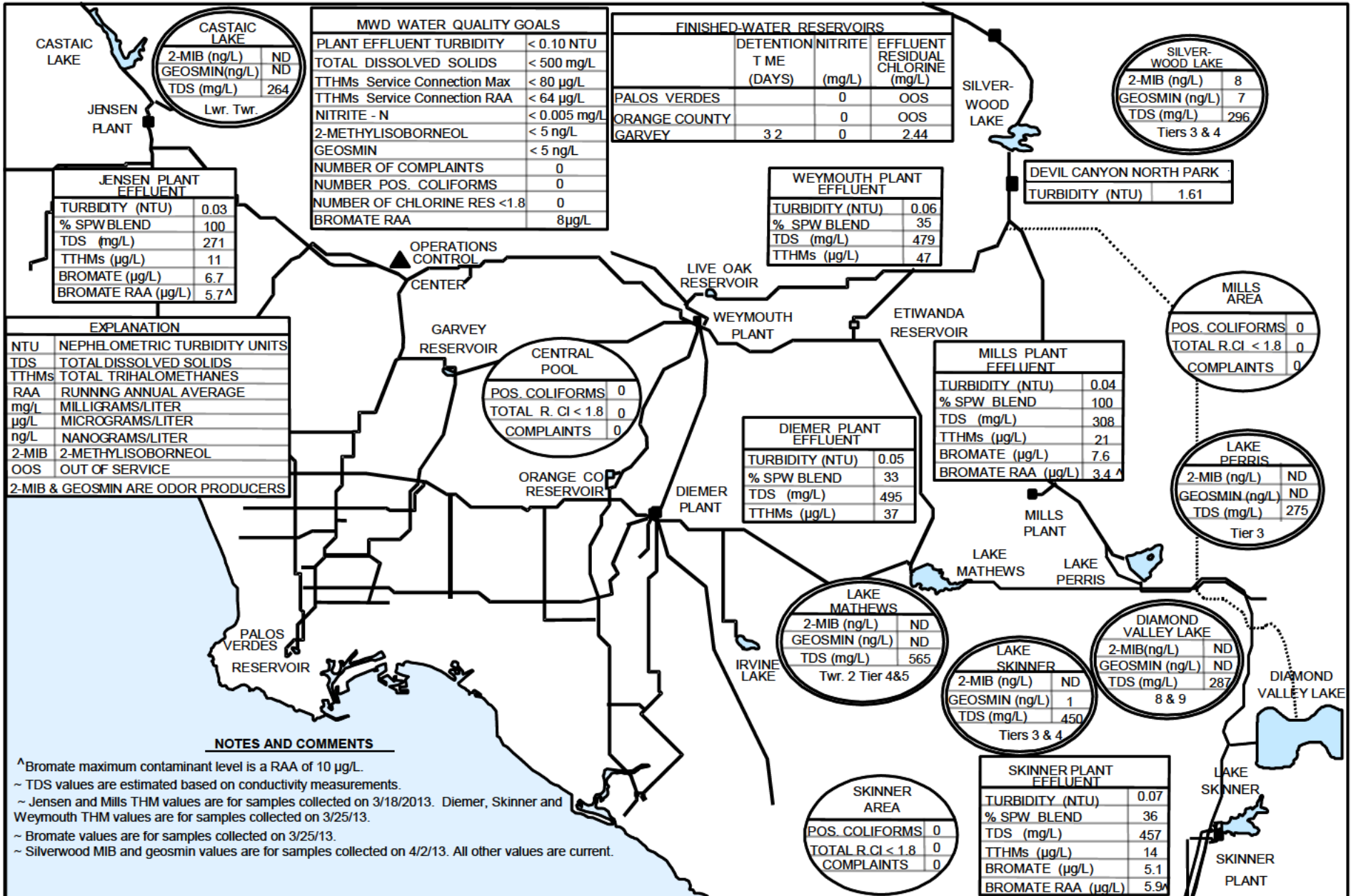
DTX-1126

Printed On: 4/3/2013 10:50:37 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, April 17, 2013

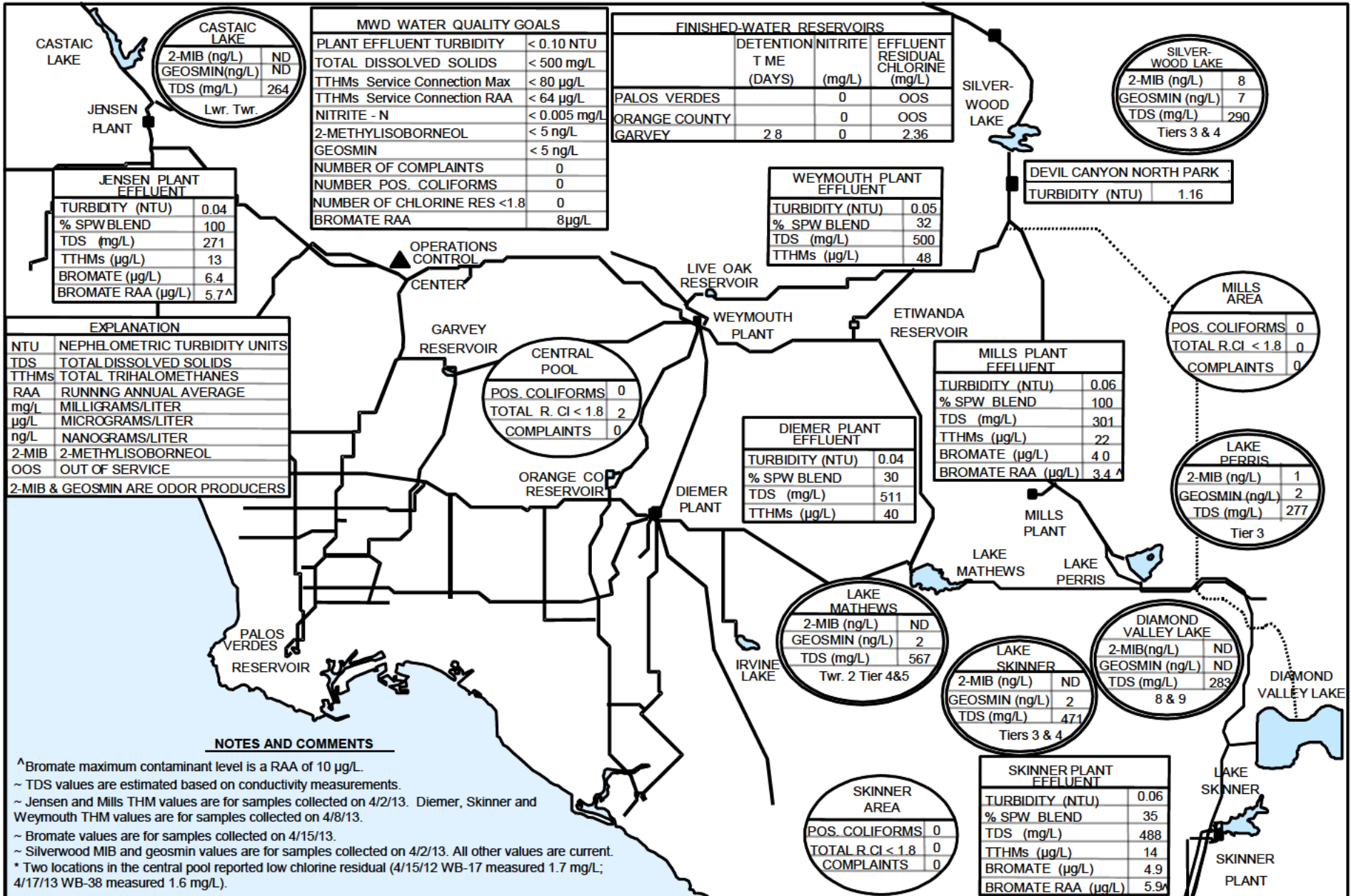
DTX-1126

Printed On: 4/17/2013 2:54:27 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, April 24, 2013

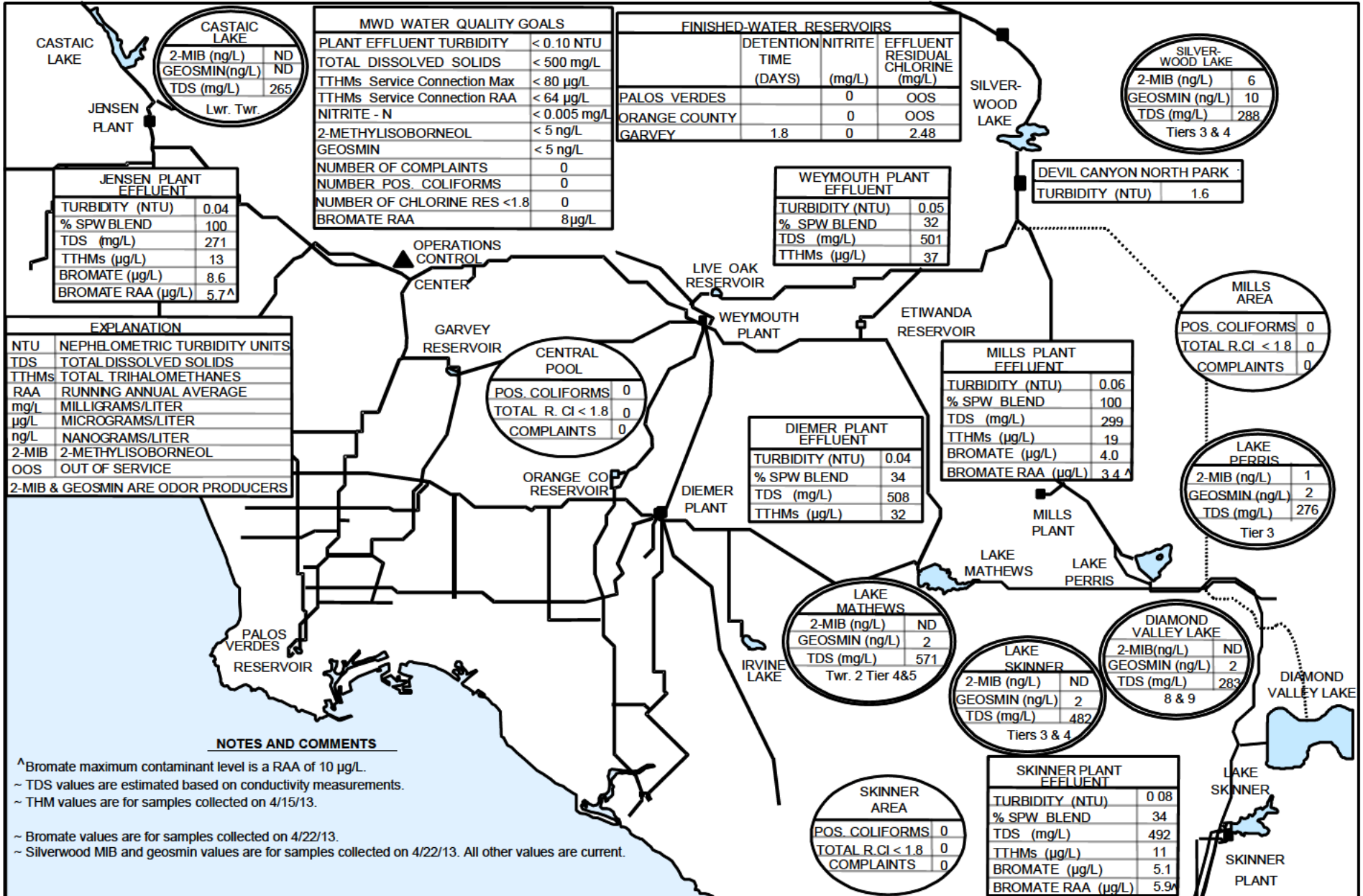
DTX-1126

Printed On: 4/24/2013 10:39:45 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, May 01, 2013

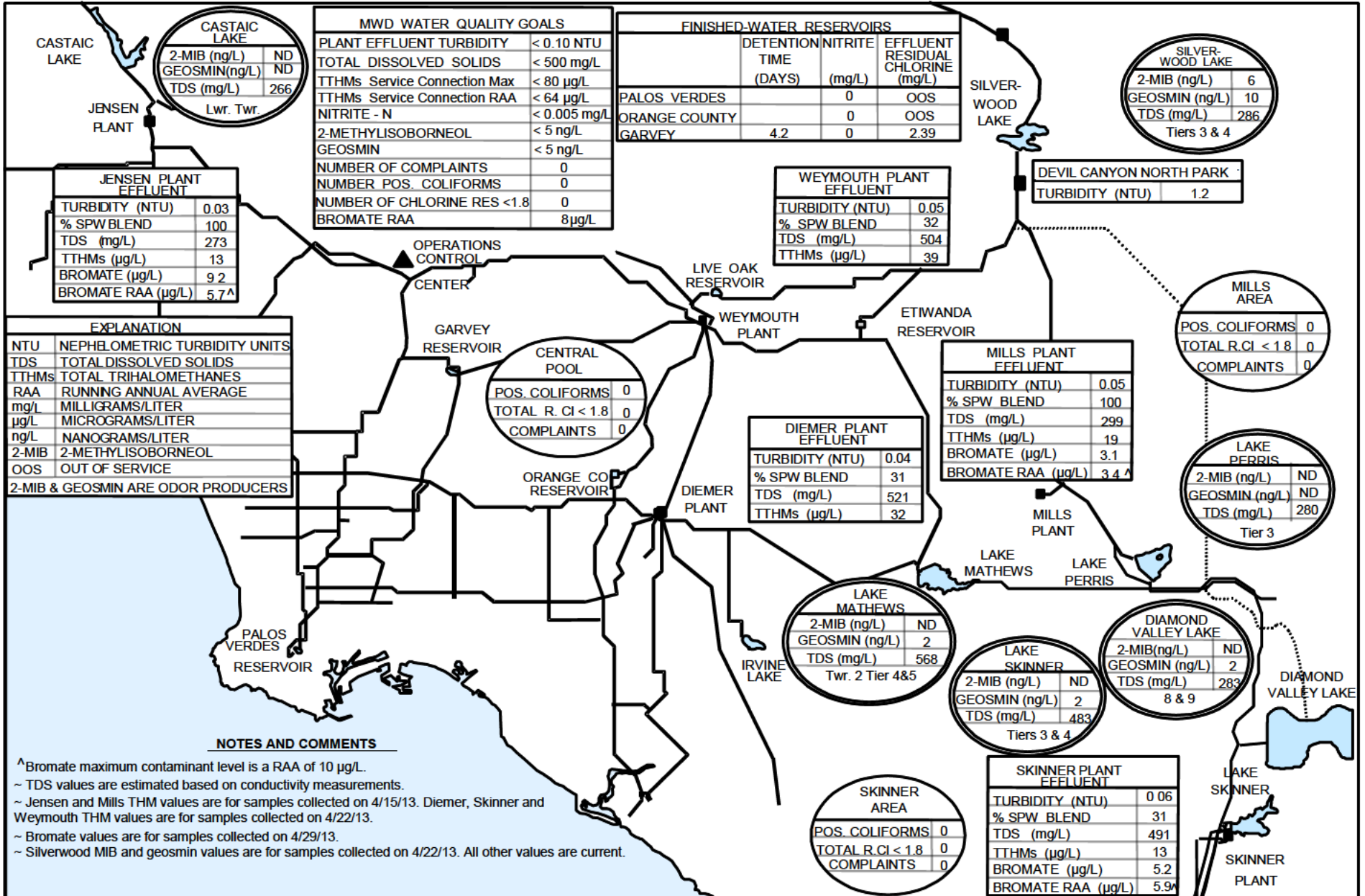
DTX-1126

Printed On: 5/1/2013 2:43:42 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, May 09, 2013

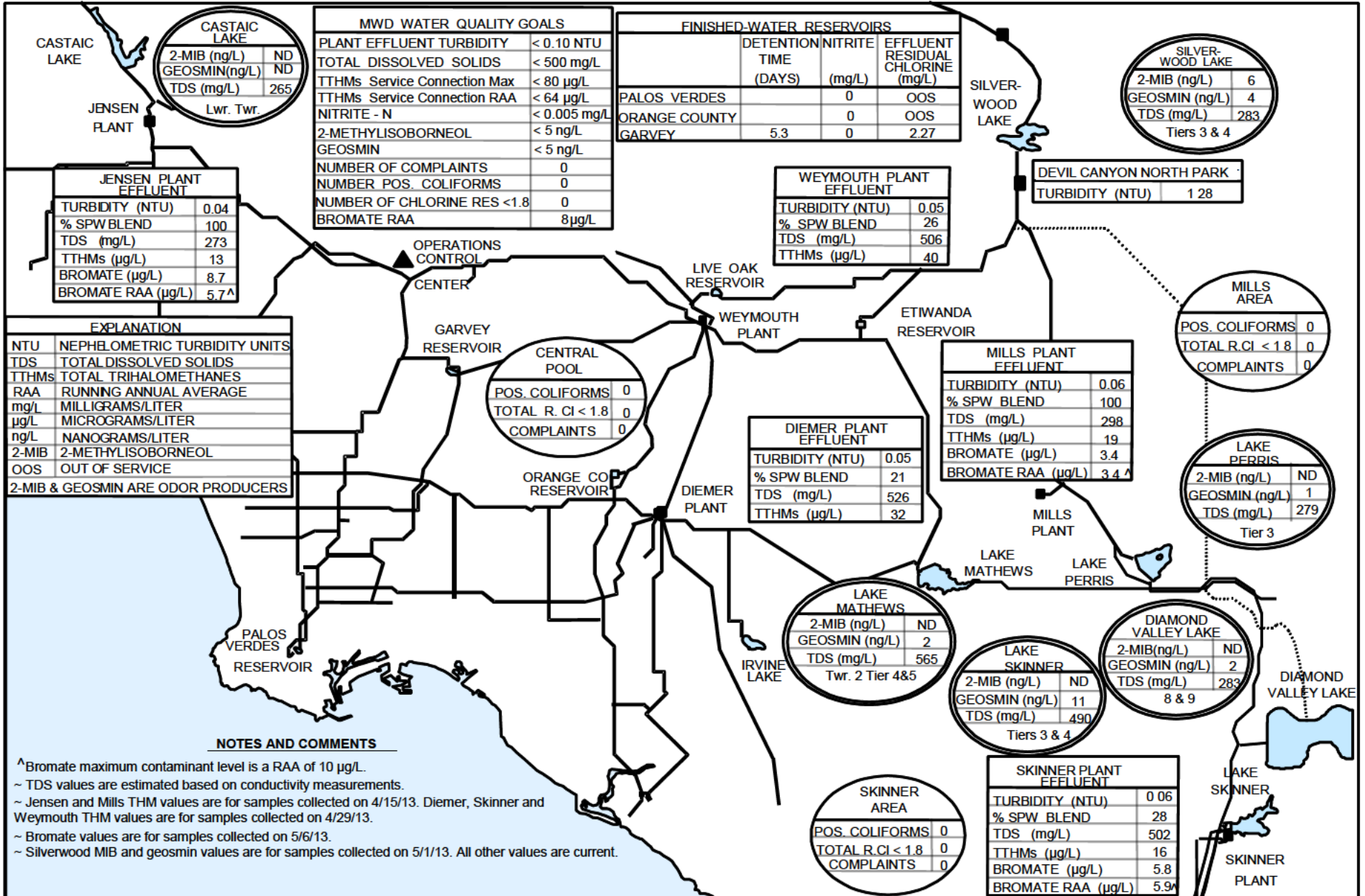
DTX-1126

Printed On: 5/9/2013 4:25:07 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, May 16, 2013

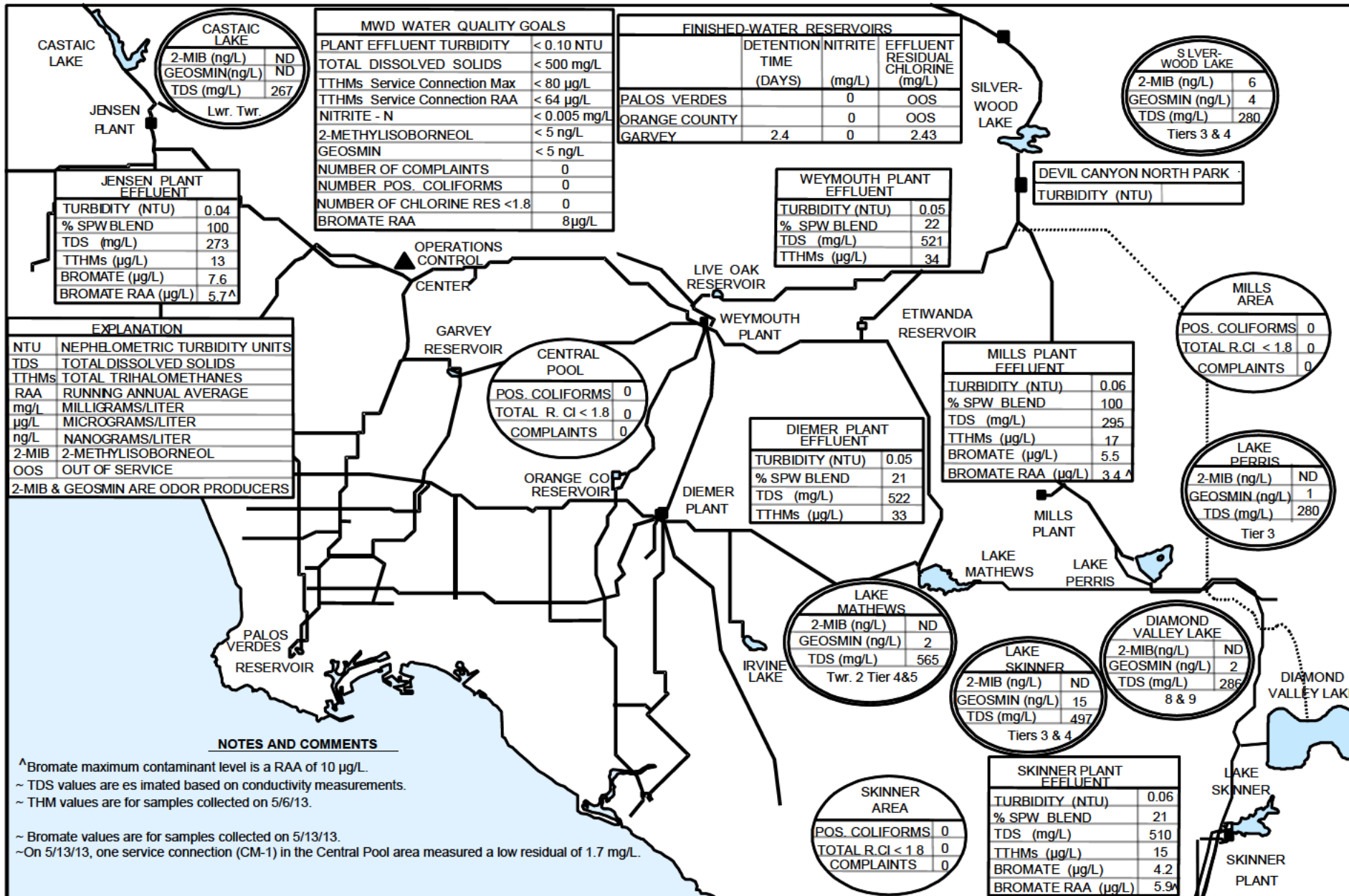
DTX-1126

Printed On: 5/16/2013 11:10:49 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Friday, May 24, 2013

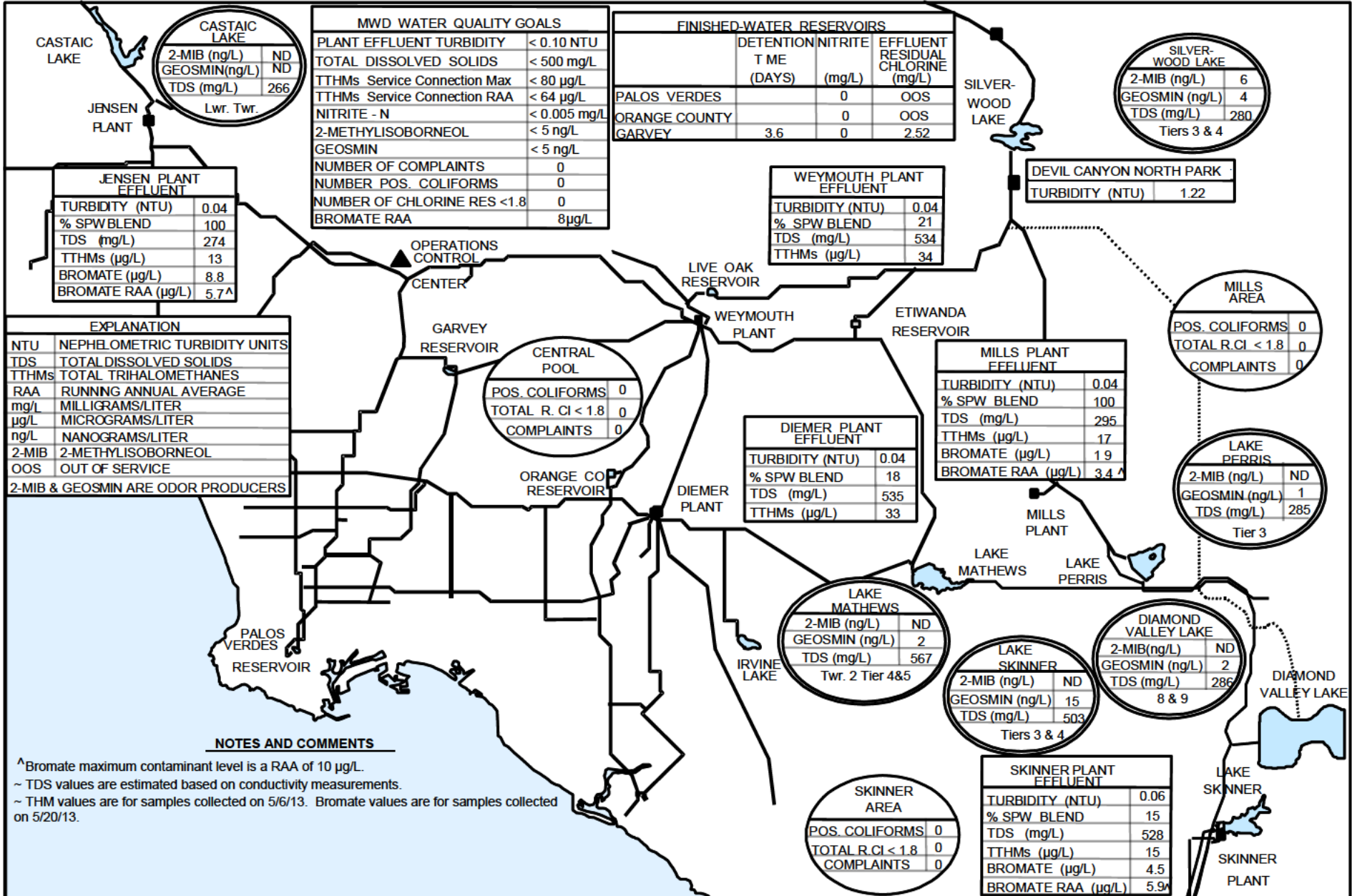
DTX-1126

Printed On: 5/24/2013 10:34:49 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



NOTES AND COMMENTS

[^]Bromate maximum contaminant level is a RAA of 10 µg/L.
~ TDS values are estimated based on conductivity measurements.
~ THM values are for samples collected on 5/6/13. Bromate values are for samples collected on 5/20/13.

MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, May 29, 2013

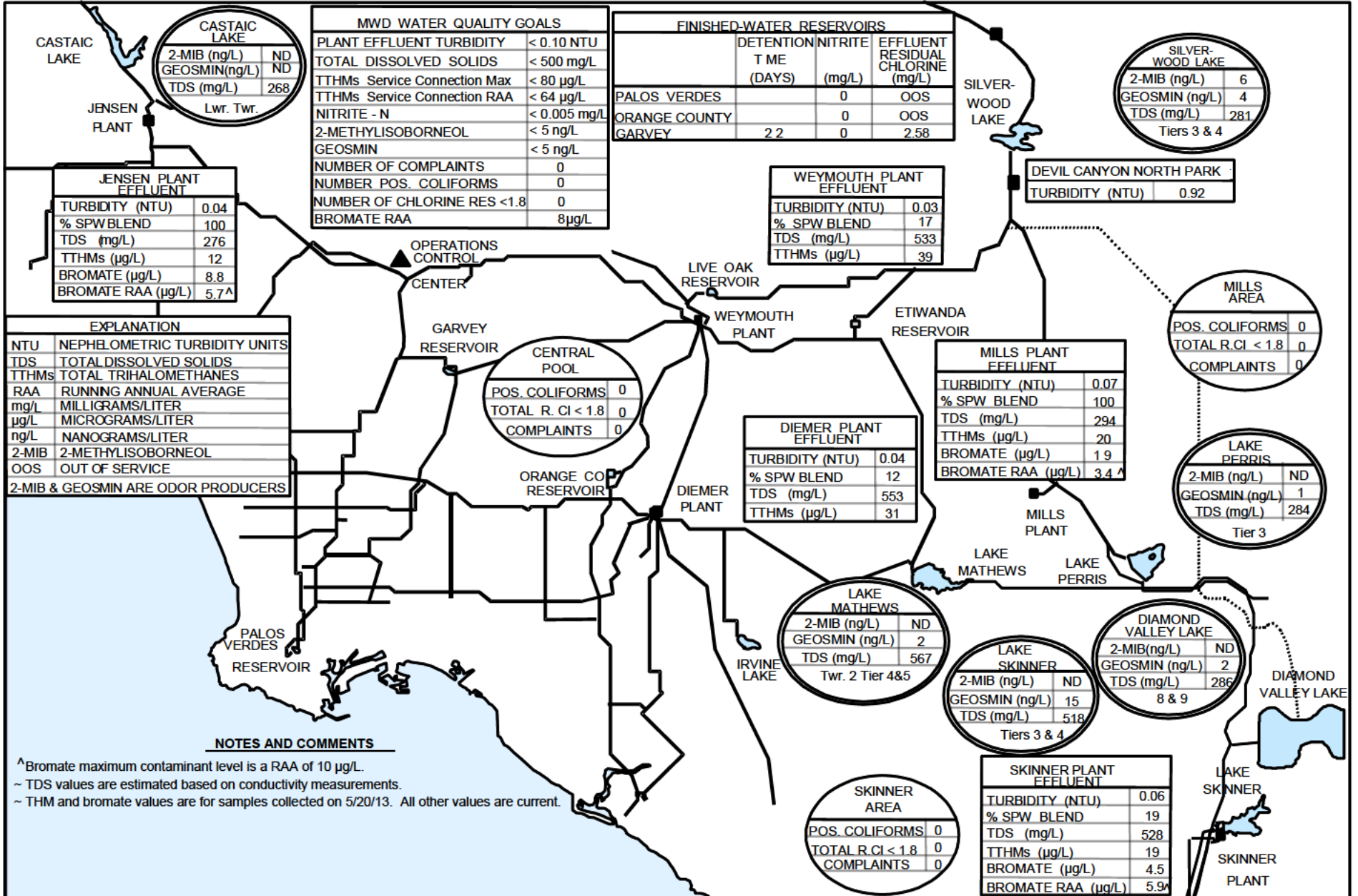
DTX-1126

Printed On: 5/29/2013 11:40:58 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, June 05, 2013

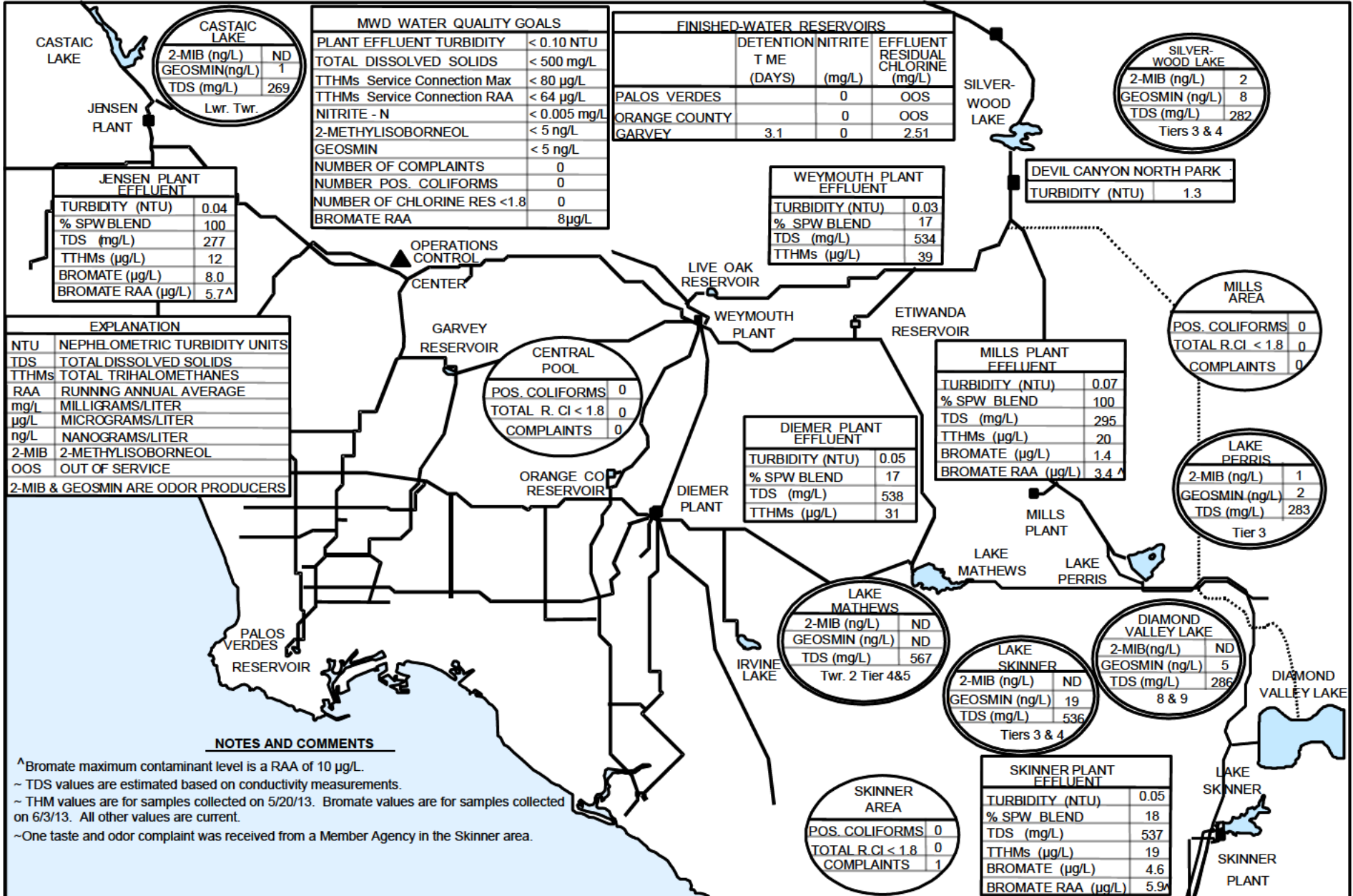
DTX-1126

Printed On: 6/5/2013 2:02:22 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, June 12, 2013

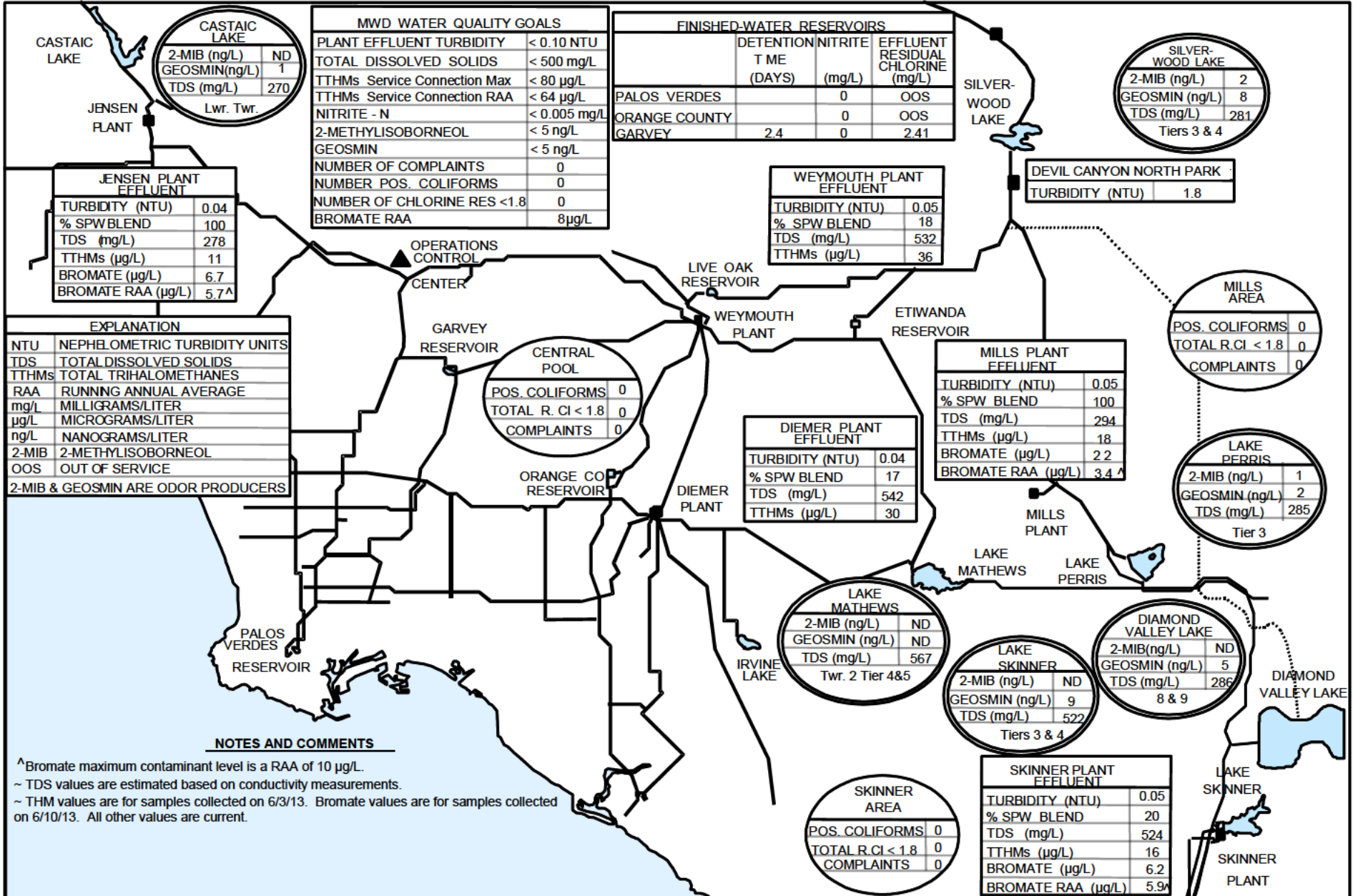
DTX-1126

Printed On: 6/12/2013 9:47:39 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



NOTES AND COMMENTS
[^]Bromate maximum contaminant level is a RAA of 10 µg/L.
 ~ TDS values are estimated based on conductivity measurements.
 ~ THM values are for samples collected on 6/3/13. Bromate values are for samples collected on 6/10/13. All other values are current.

MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, June 19, 2013

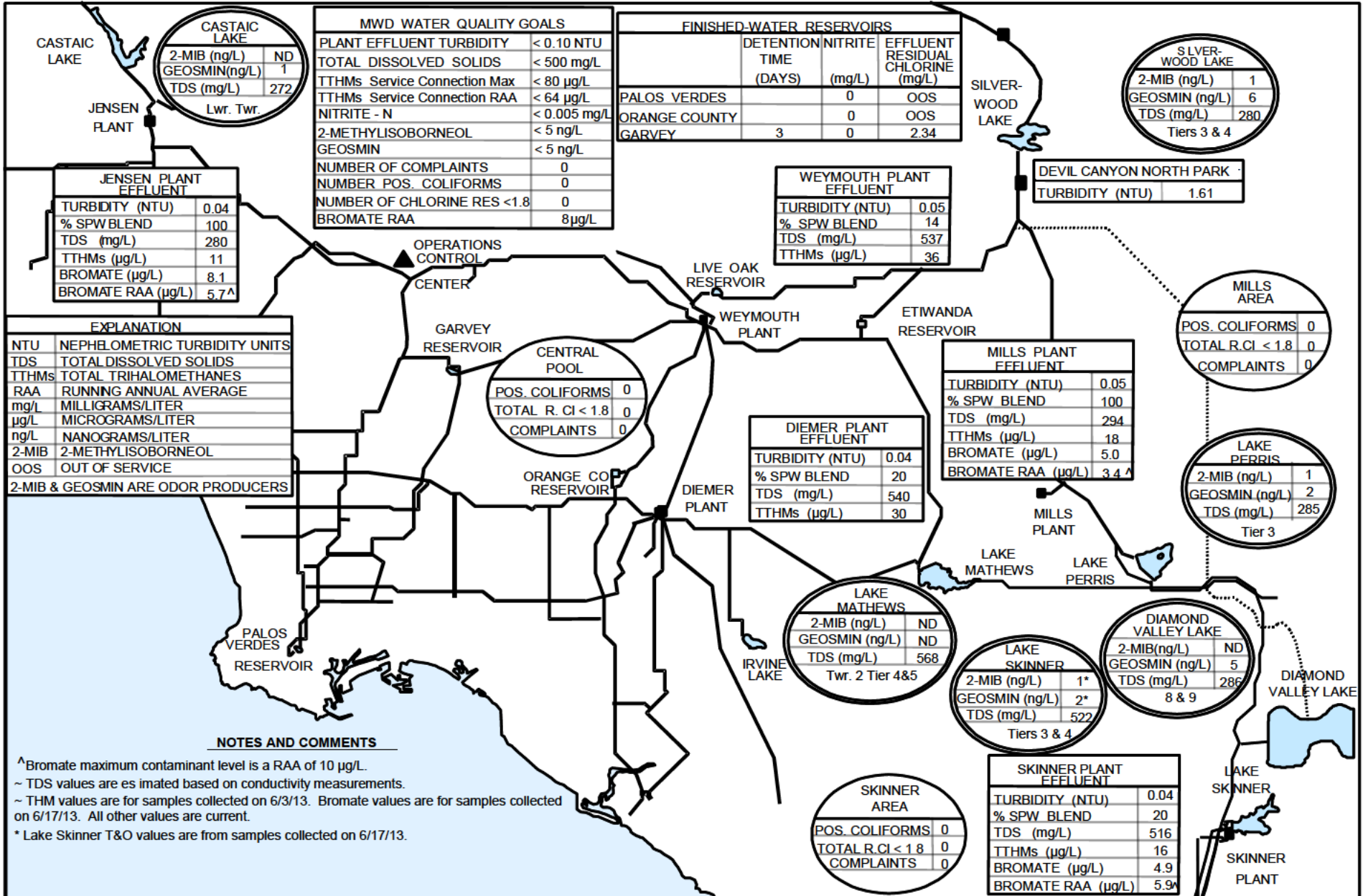
DTX-1126

Printed On: 6/19/2013 2:25:14 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, June 26, 2013

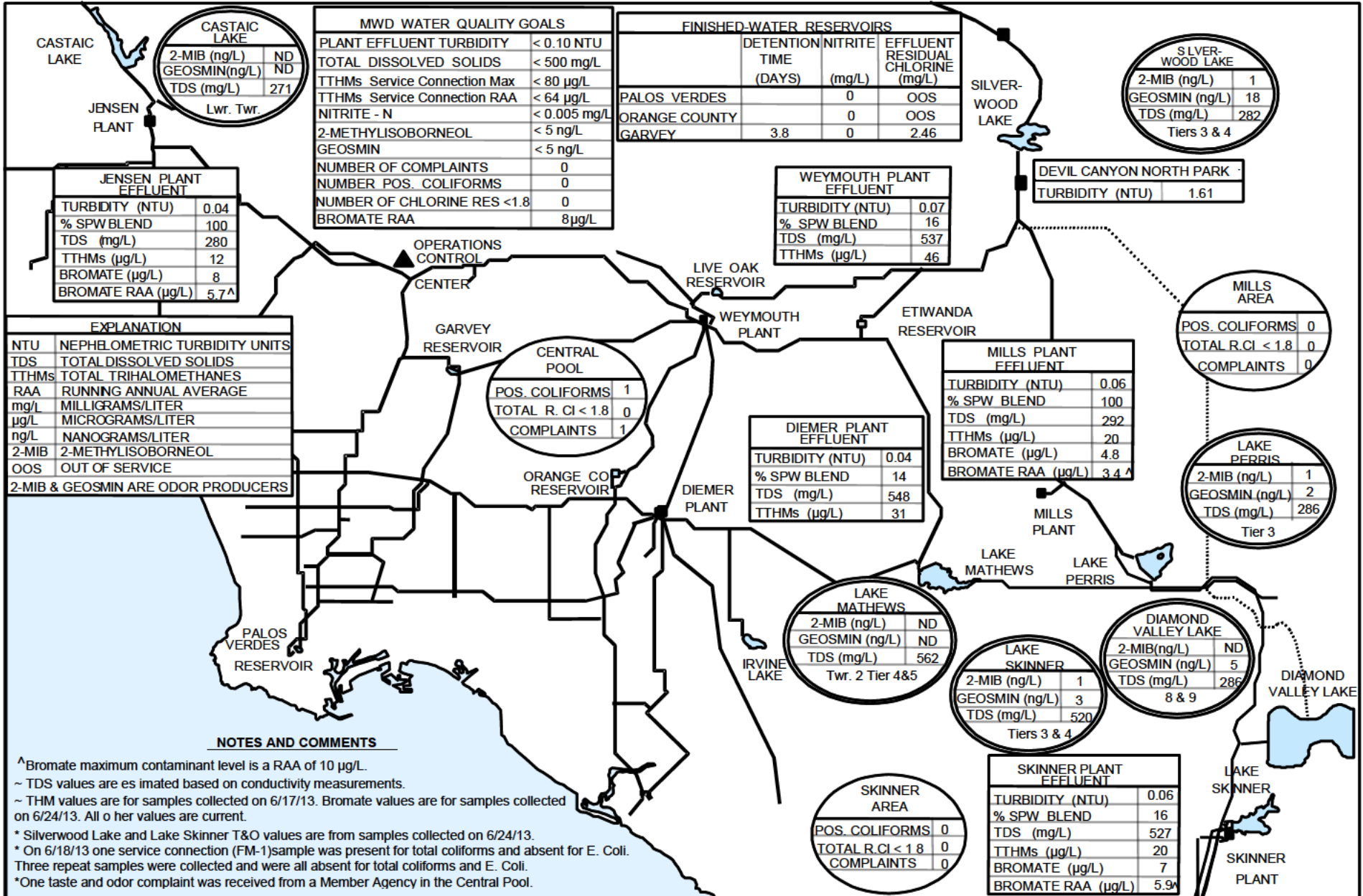
DTX-1126

Printed On: 6/28/2013 11:57:12 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Tuesday, July 02, 2013

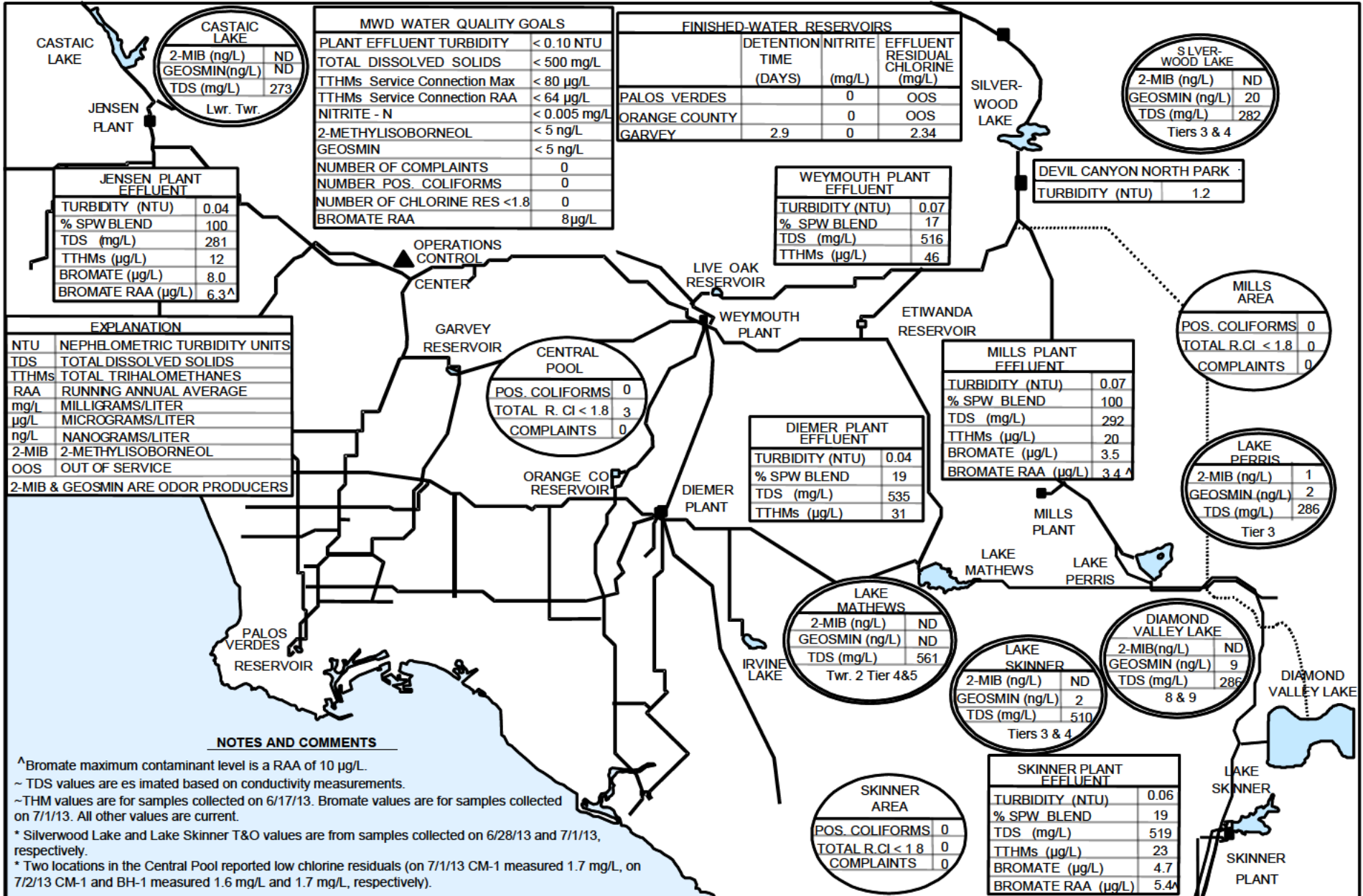
DTX-1126

Printed On: 7/3/2013 5:02:12 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, July 10, 2013

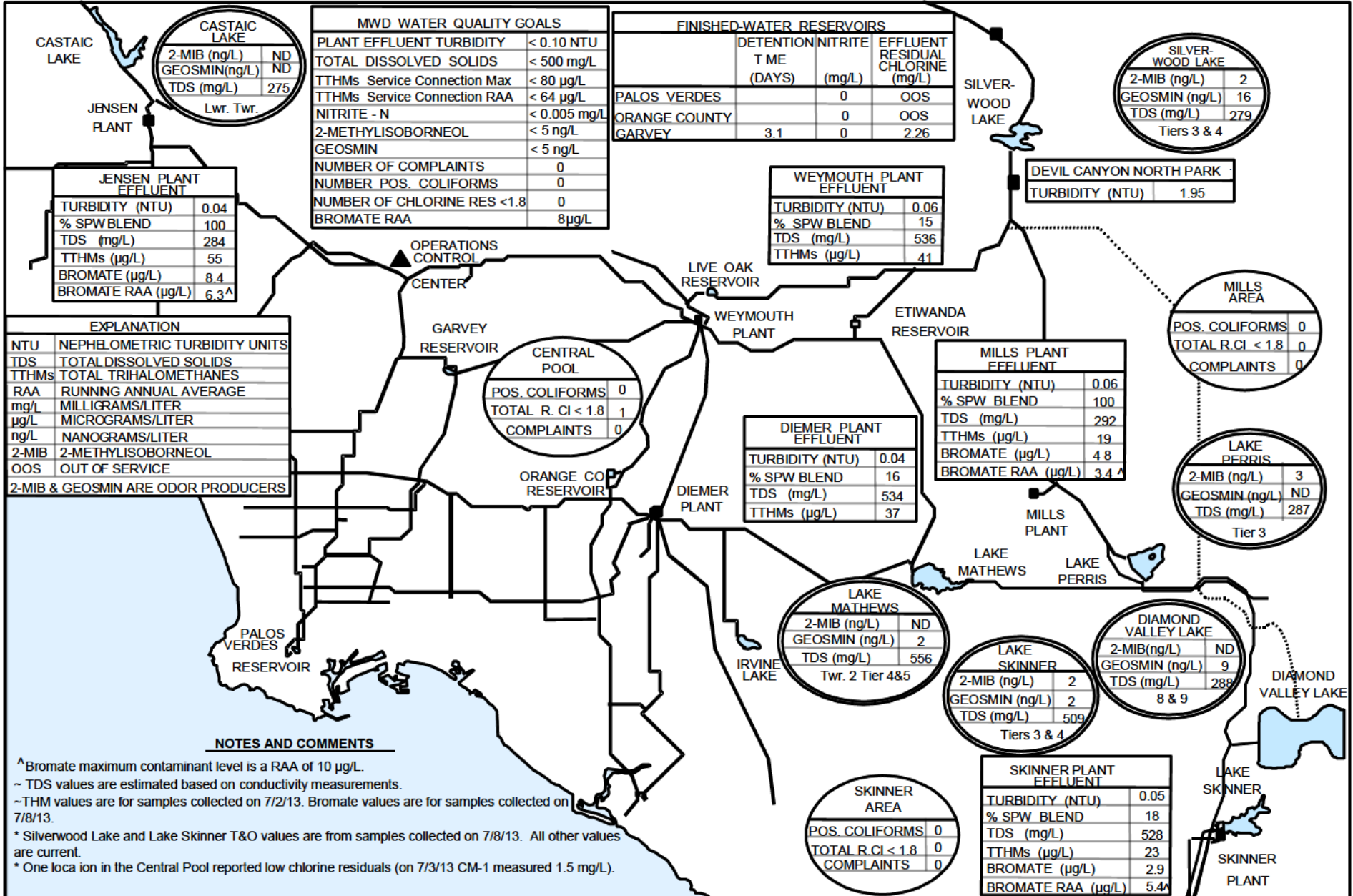
DTX-1126

Printed On: 7/10/2013 12:37:30 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, July 17, 2013

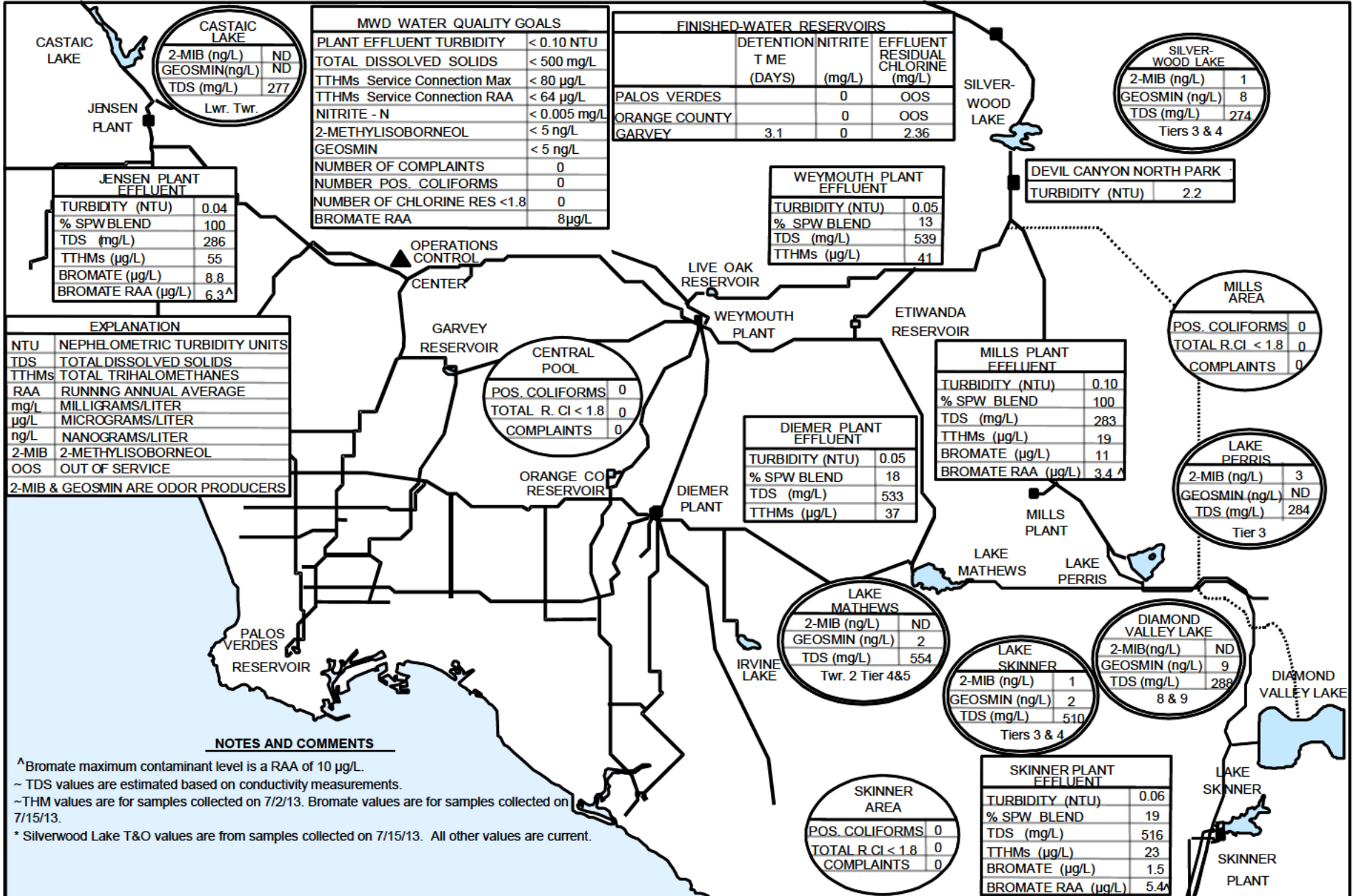
DTX-1126

Printed On: 7/19/2013 7:28:28 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



NOTES AND COMMENTS

[^]Bromate maximum contaminant level is a RAA of 10 µg/L.

~ TDS values are estimated based on conductivity measurements.

~THM values are for samples collected on 7/2/13. Bromate values are for samples collected on 7/15/13.

* Silverwood Lake T&O values are from samples collected on 7/15/13. All other values are current.

Weekly Water Quality System Status

Wednesday, July 24, 2013

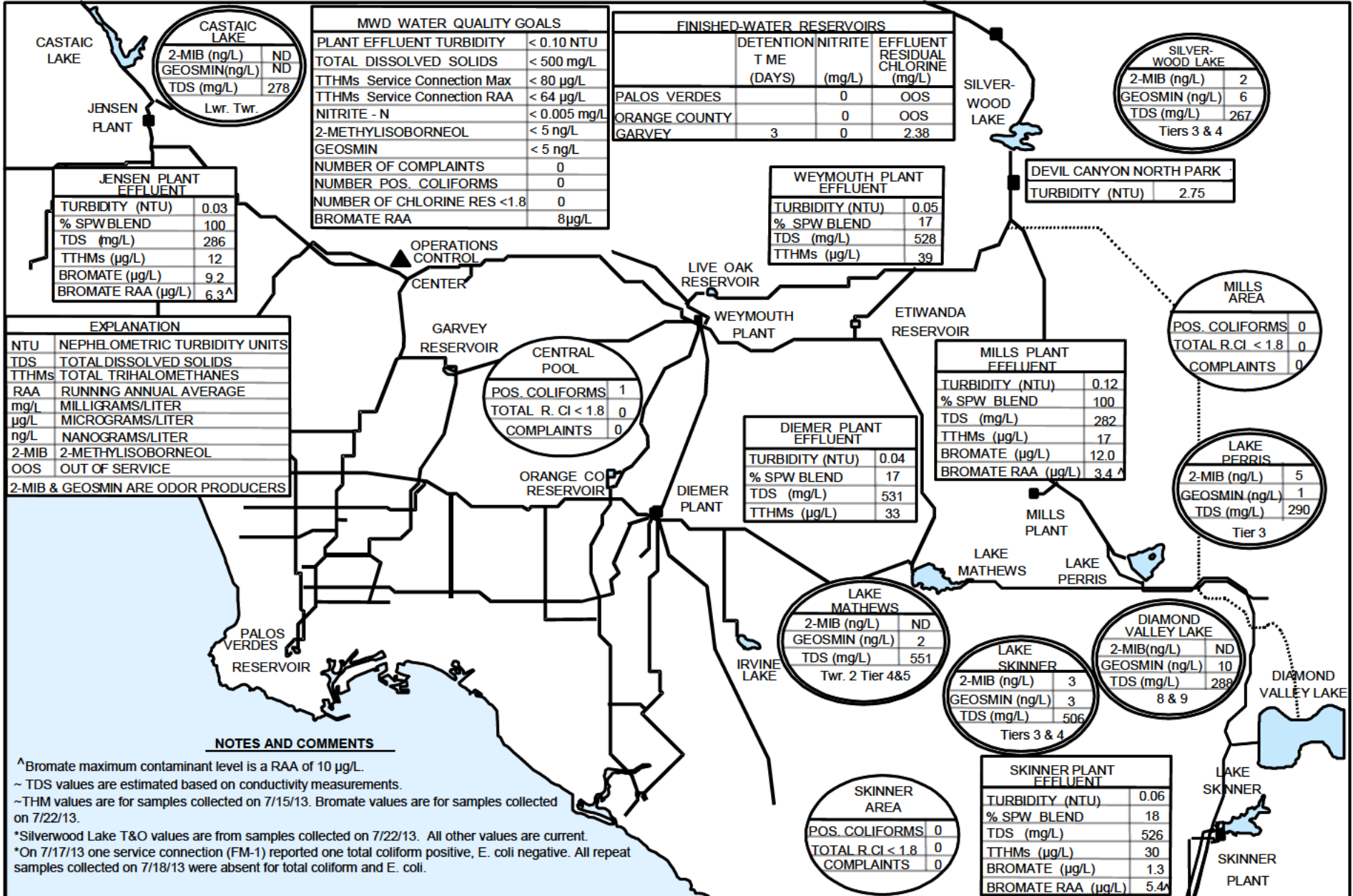
DTX-1126

Printed On: 7/24/2013 3:36:59 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, July 31, 2013

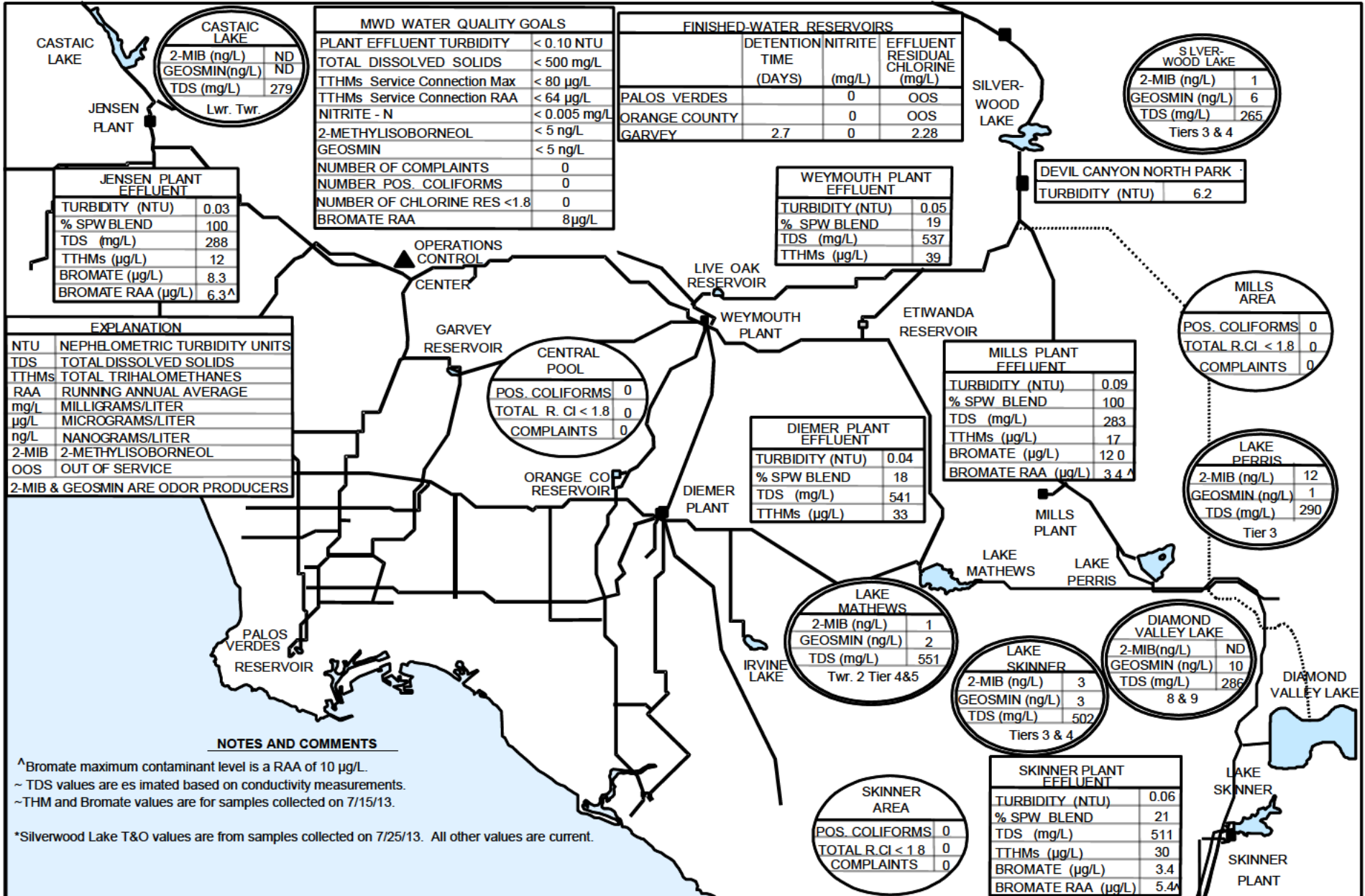
DTX-1126

Printed On: 8/1/2013 3:34:55 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, August 08, 2013

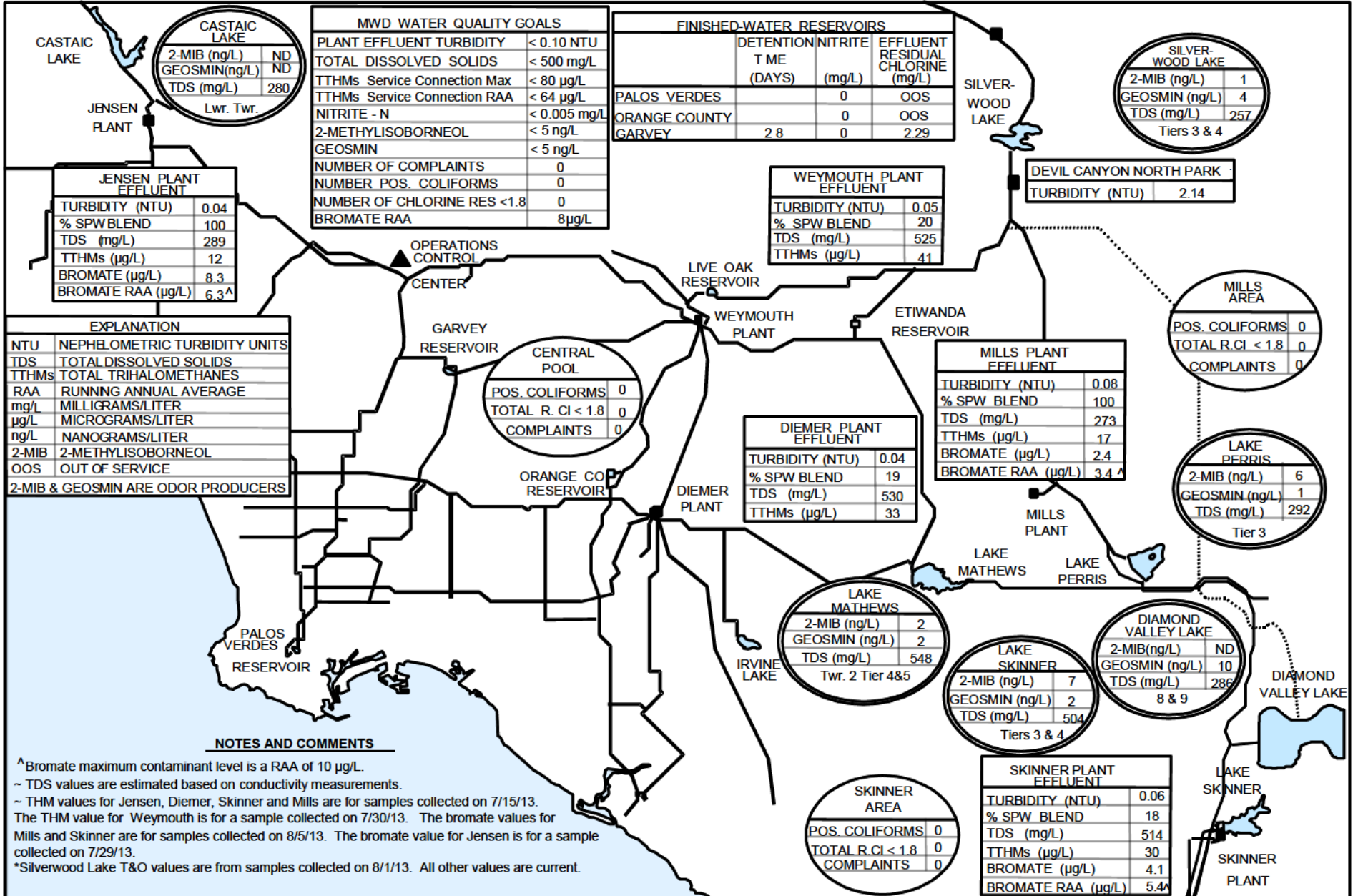
DTX-1126

Printed On: 8/8/2013 3:53:55 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, August 15, 2013

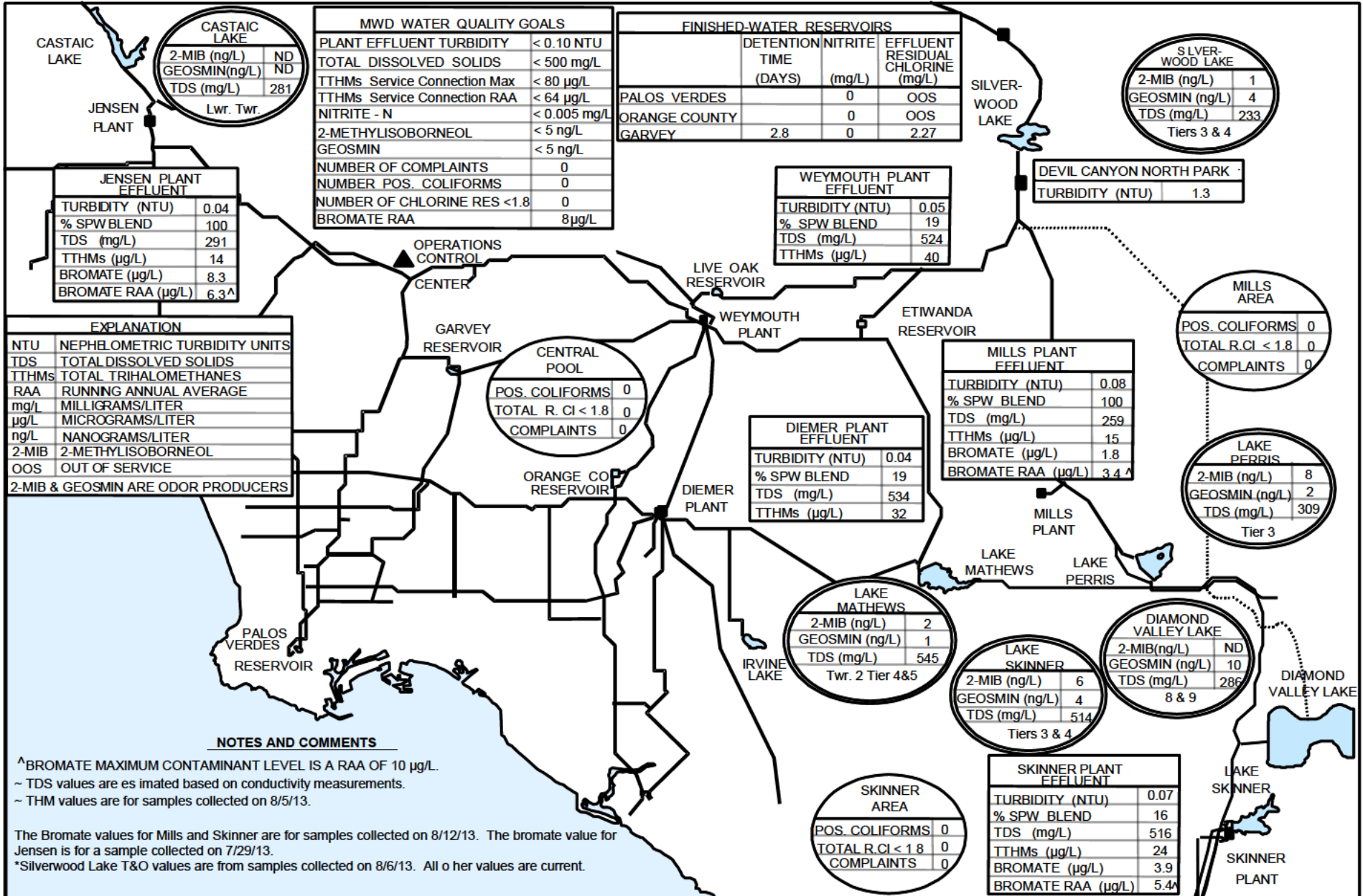
DTX-1126

Printed On: 8/15/2013 1:34:04 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, August 21, 2013

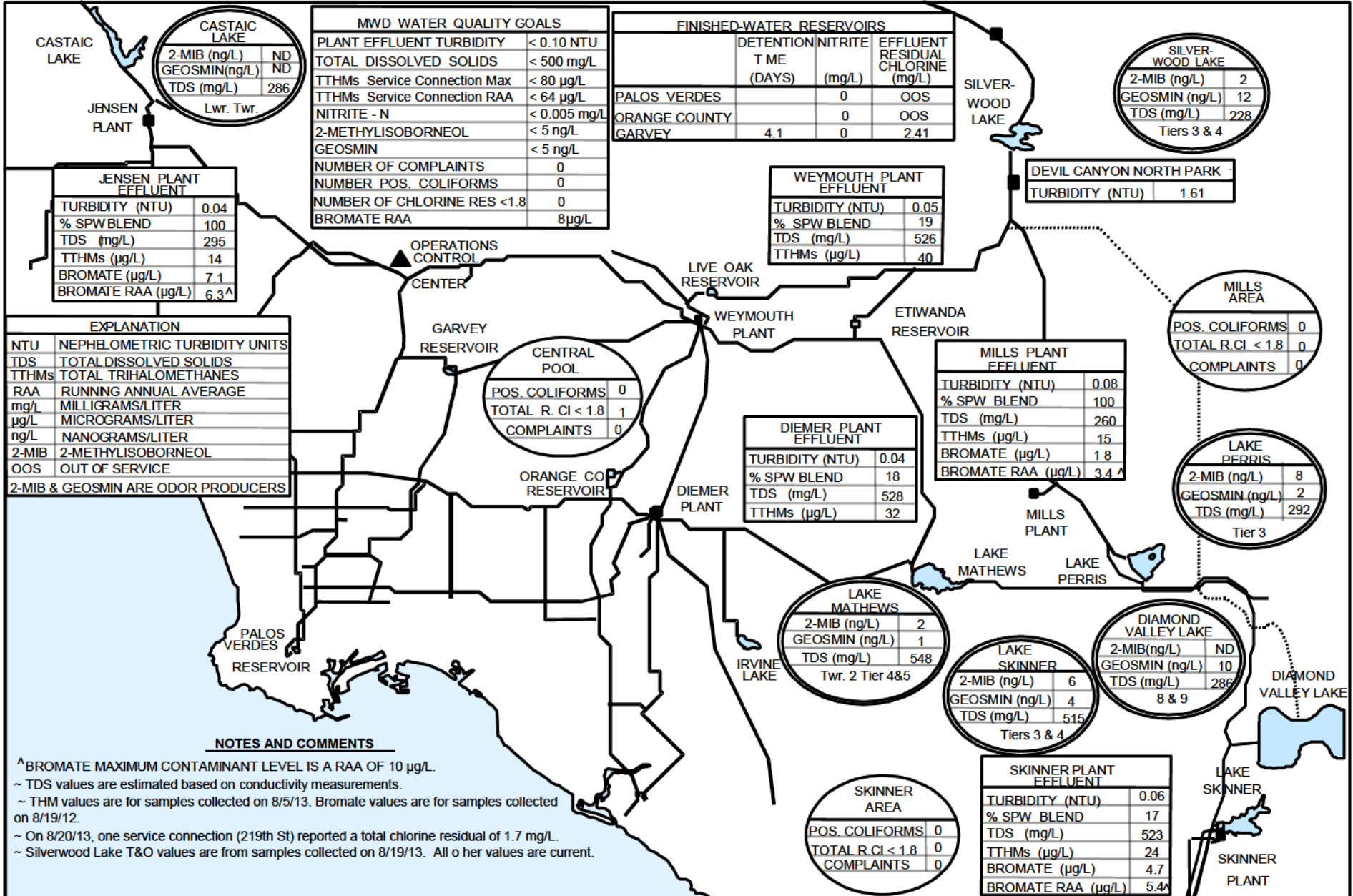
DTX-1126

Printed On: 8/21/2013 2:01:26 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, August 28, 2013

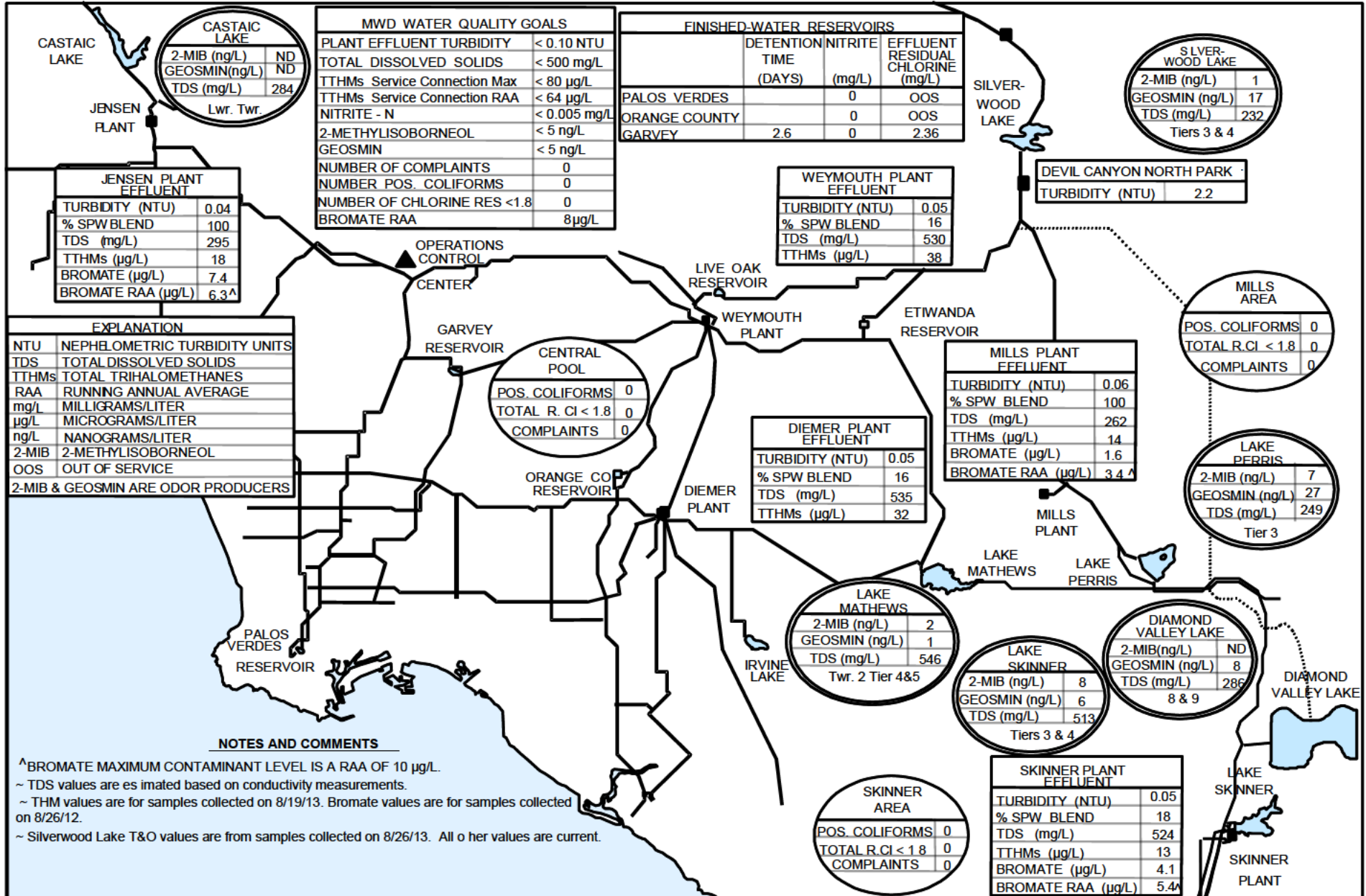
DTX-1126

Printed On: 8/30/2013 8:11:52 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, September 04, 2013

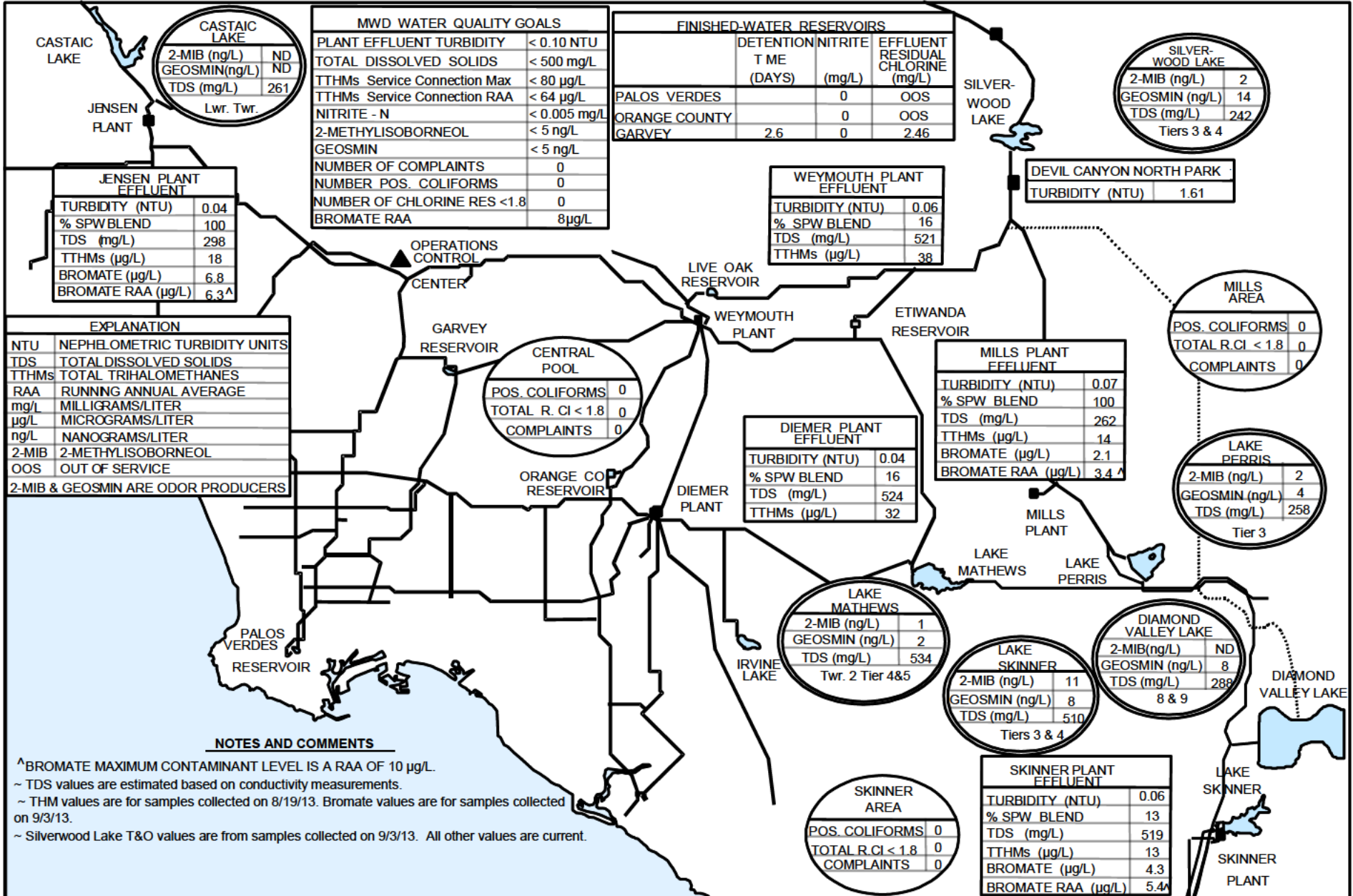
DTX-1126

Printed On: 9/4/2013 12:58:45 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, September 11, 2013

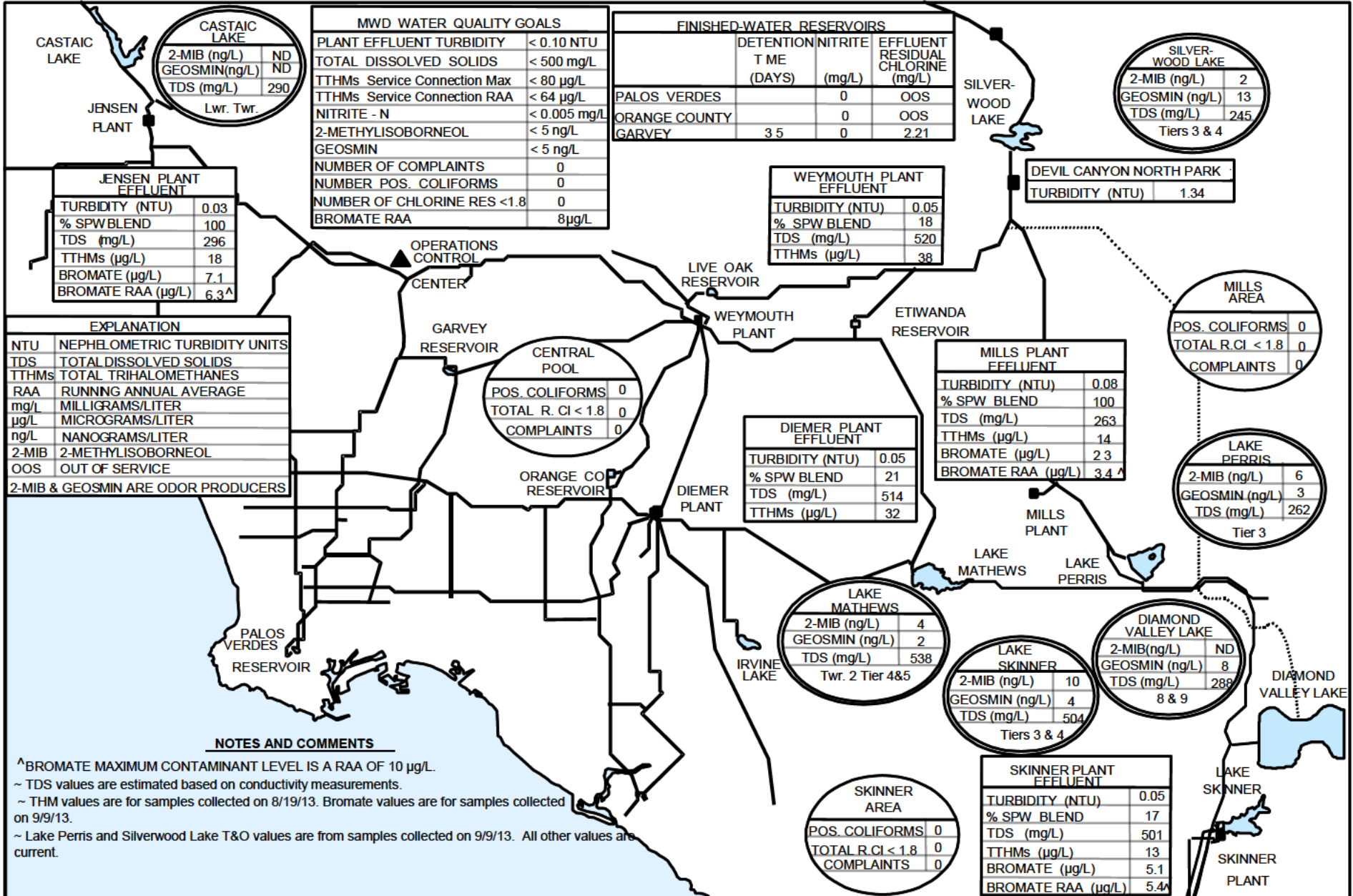
DTX-1126

Printed On: 9/11/2013 12:14:24 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, September 18, 2013

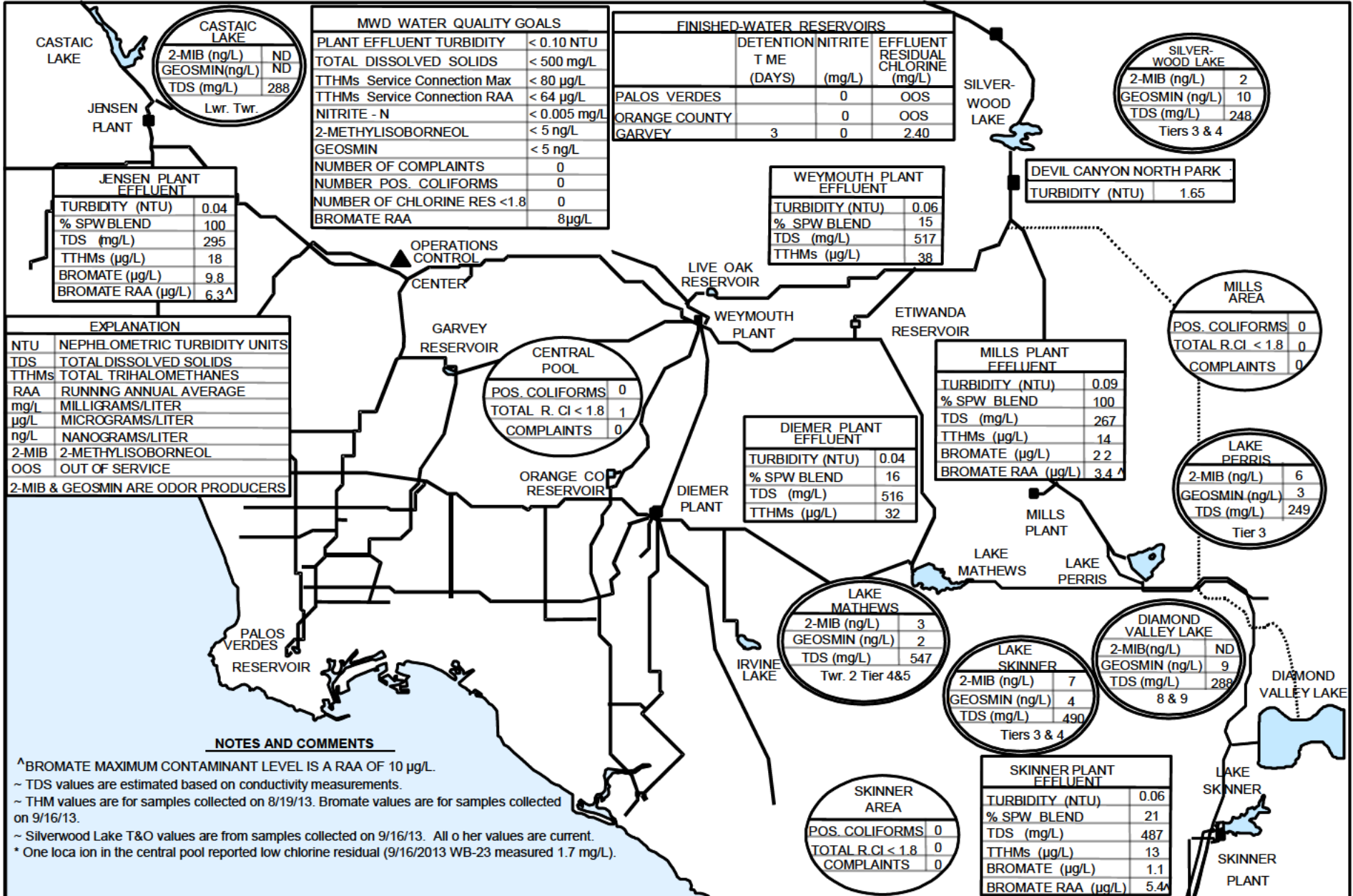
DTX-1126

Printed On: 9/18/2013 2:45:10 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, September 26, 2013

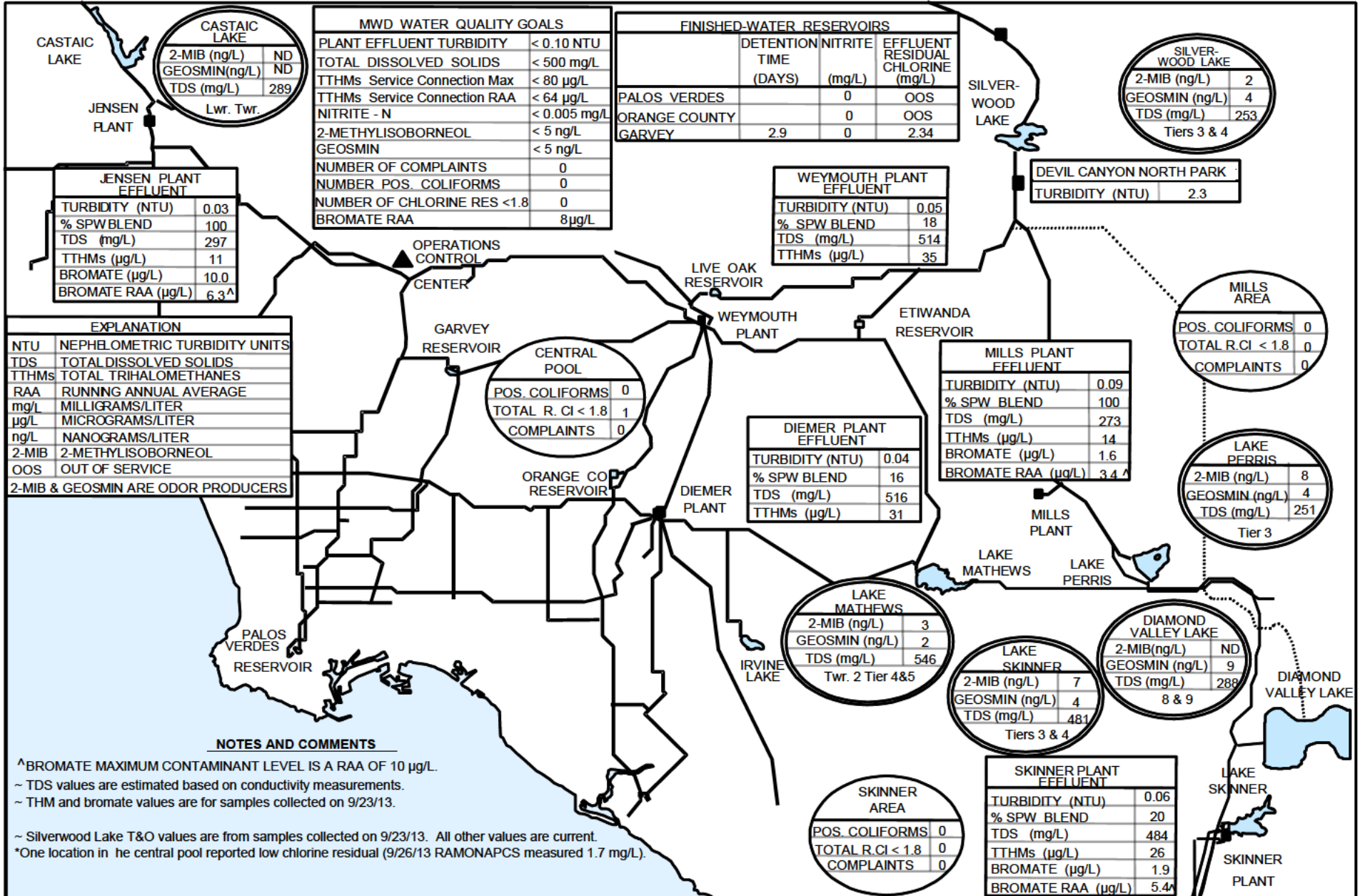
DTX-1126

Printed On: 9/27/2013 8:39:44 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 02, 2013

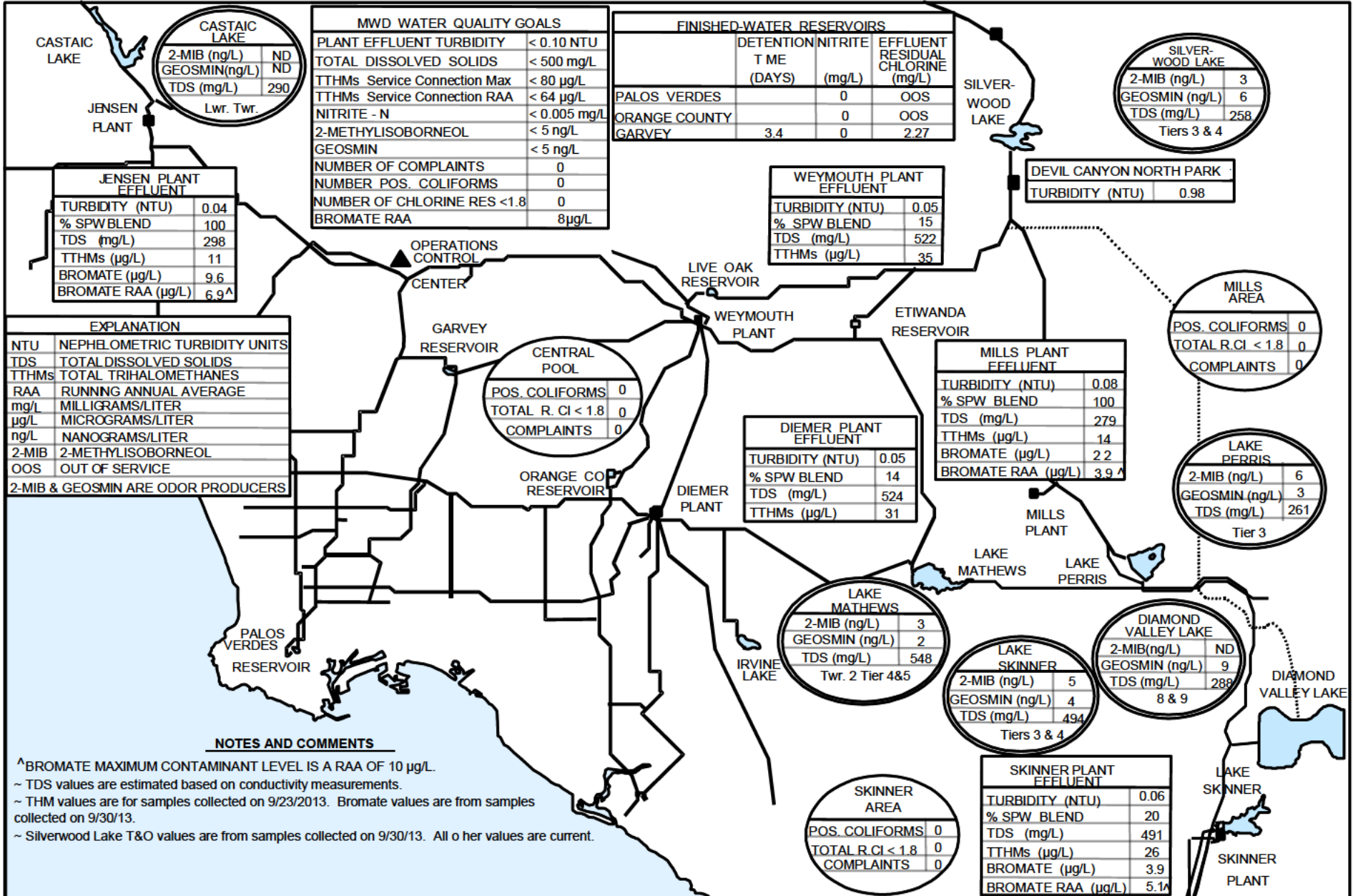
DTX-1126

Printed On: 10/2/2013 1:27:24 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 09, 2013

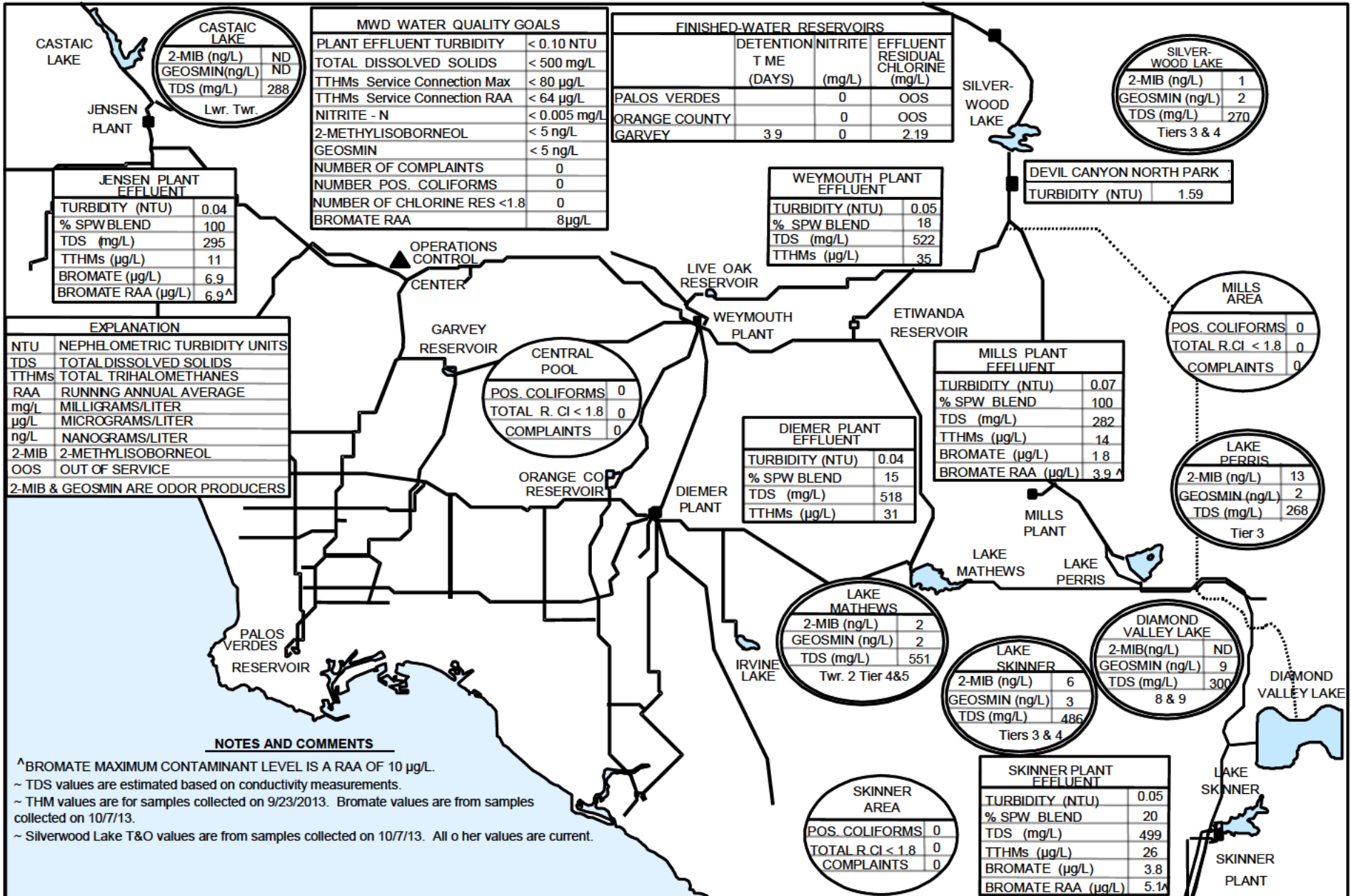
DTX-1126

Printed On: 10/9/2013 2:14:21 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Friday, October 18, 2013

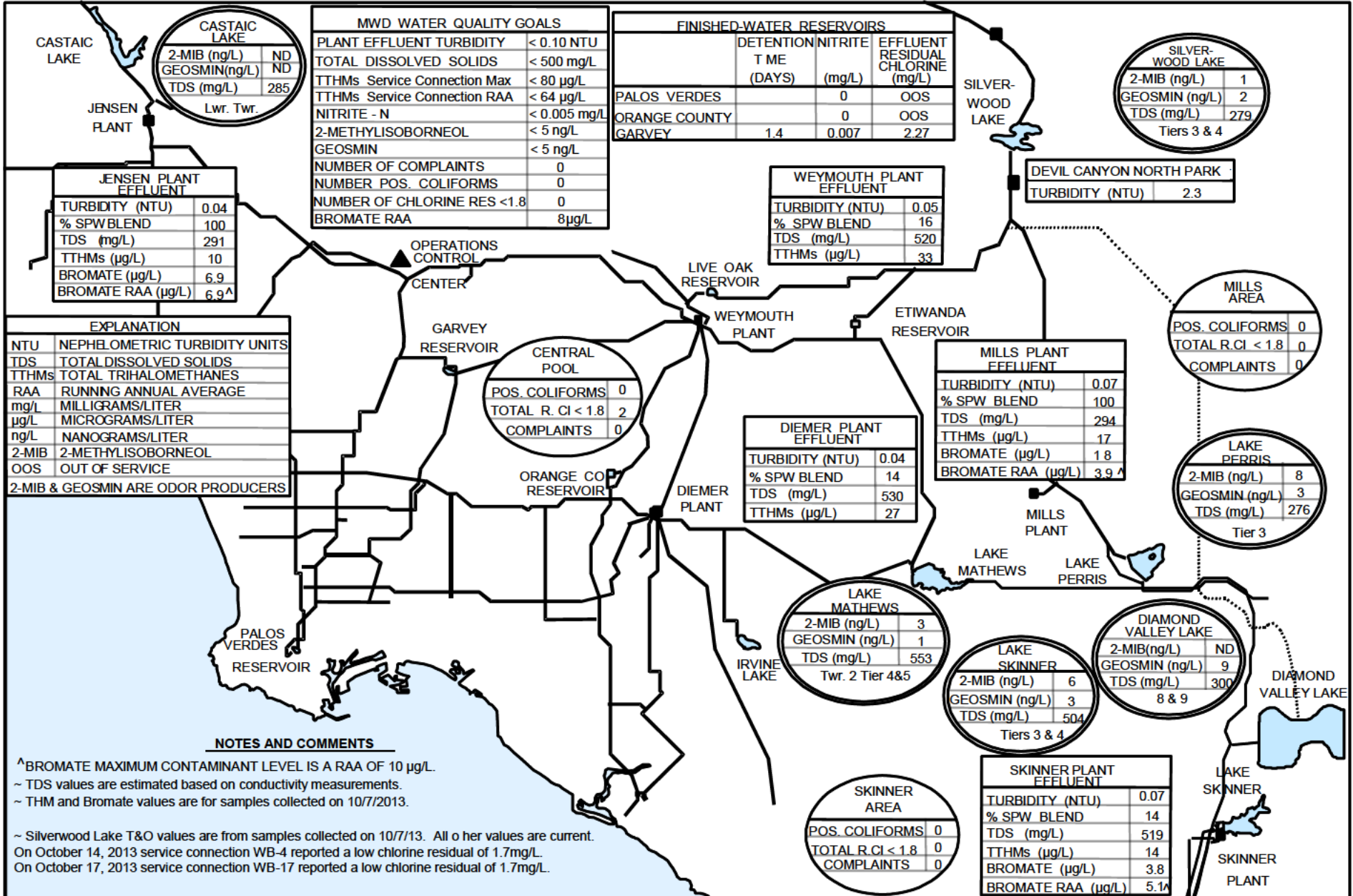
DTX-1126

Printed On: 10/18/2013 10:44:06 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 23, 2013

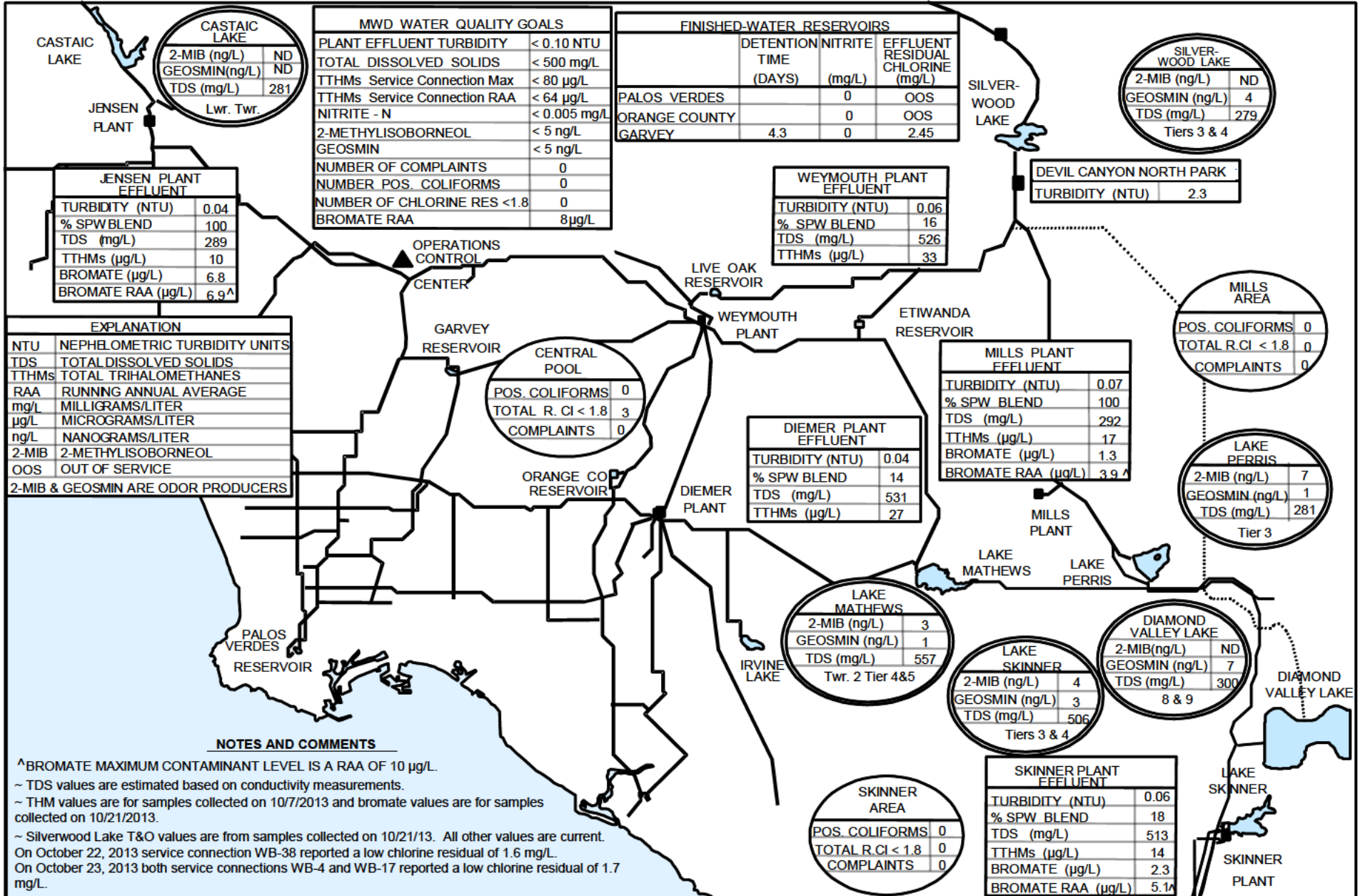
DTX-1126

Printed On: 10/24/2013 4:31:13 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 30, 2013

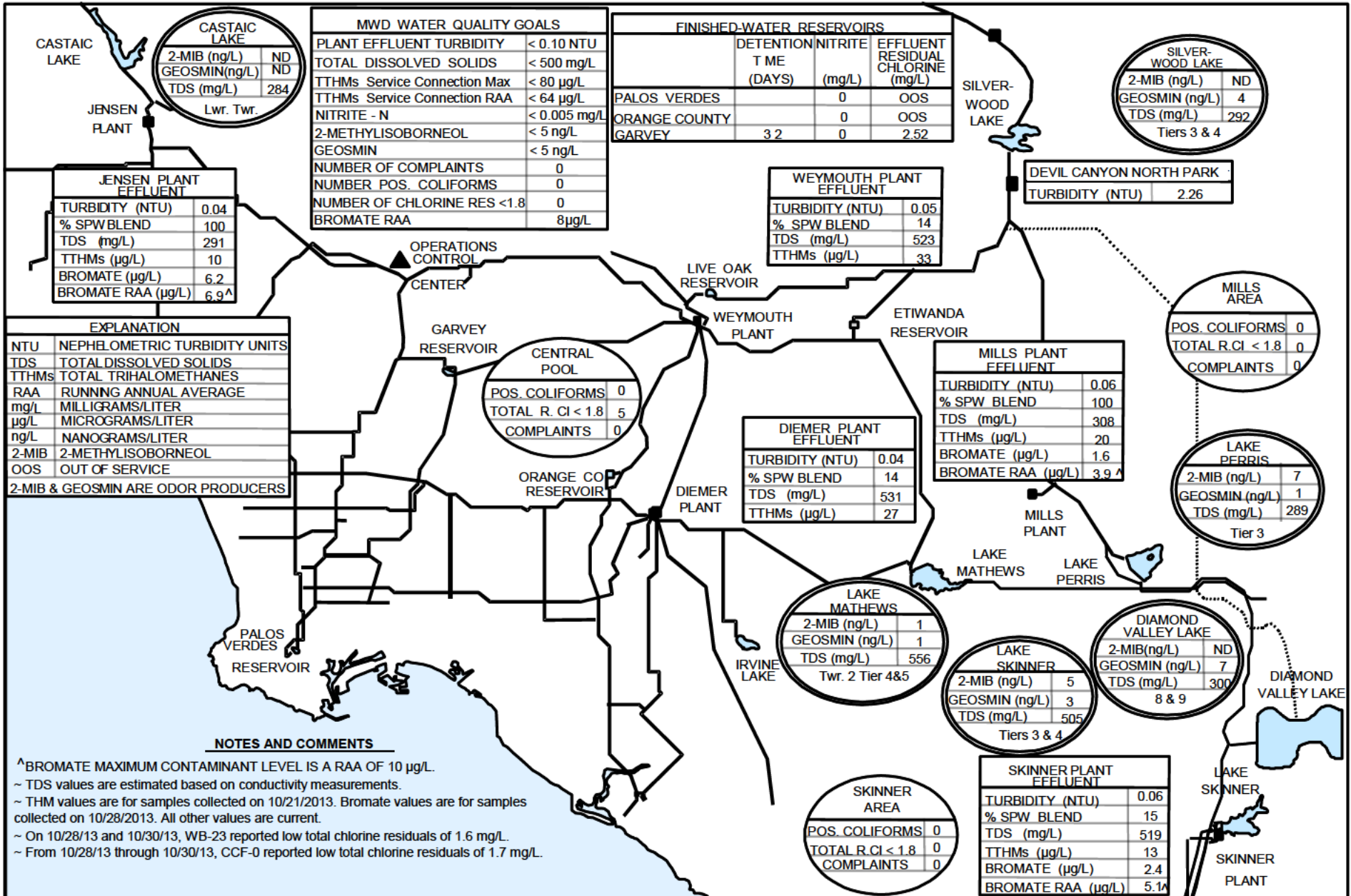
DTX-1126

Printed On: 10/31/2013 1:25:27 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, November 06, 2013

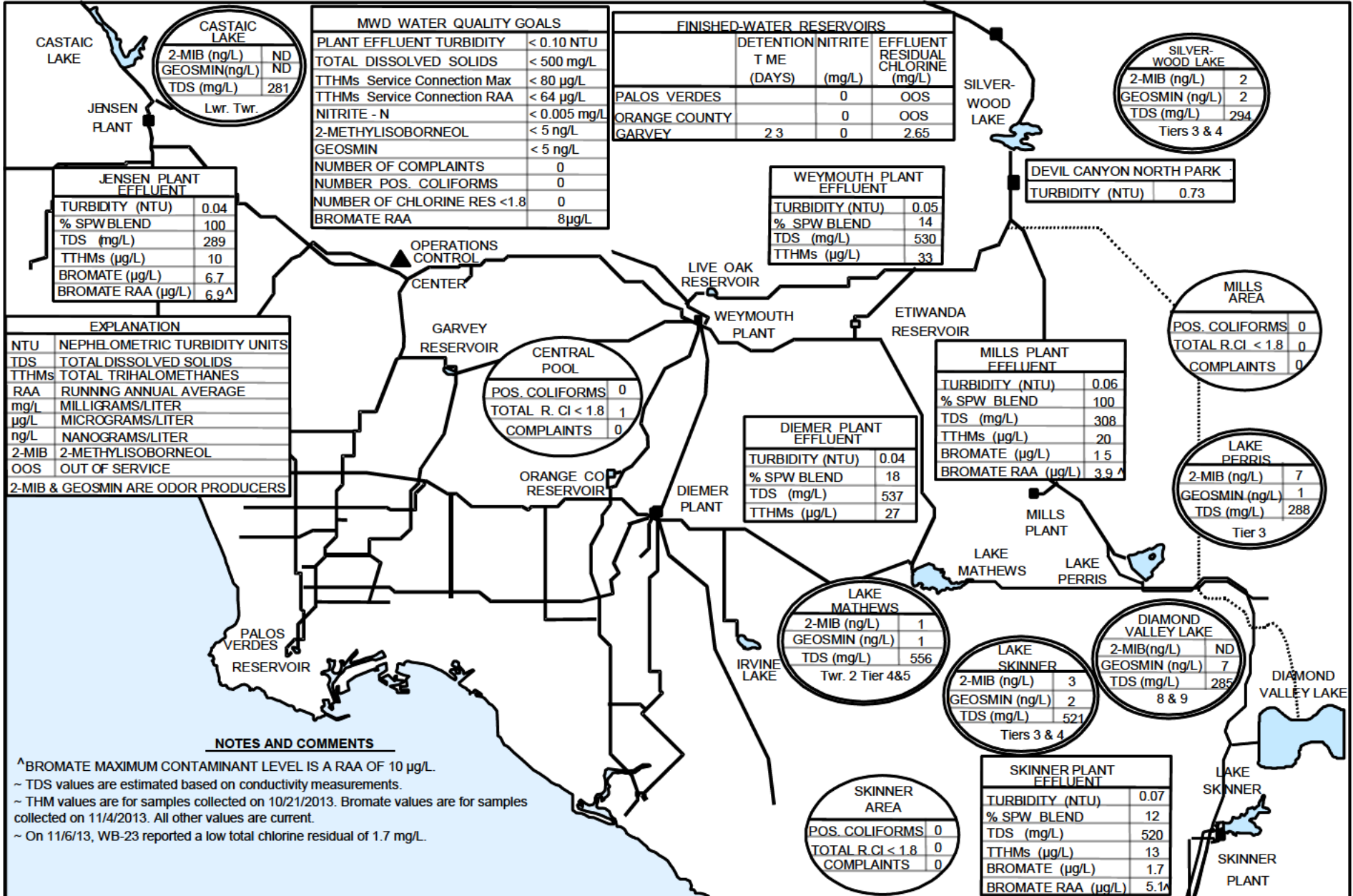
DTX-1126

Printed On: 11/6/2013 1:27:17 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, November 13, 2013

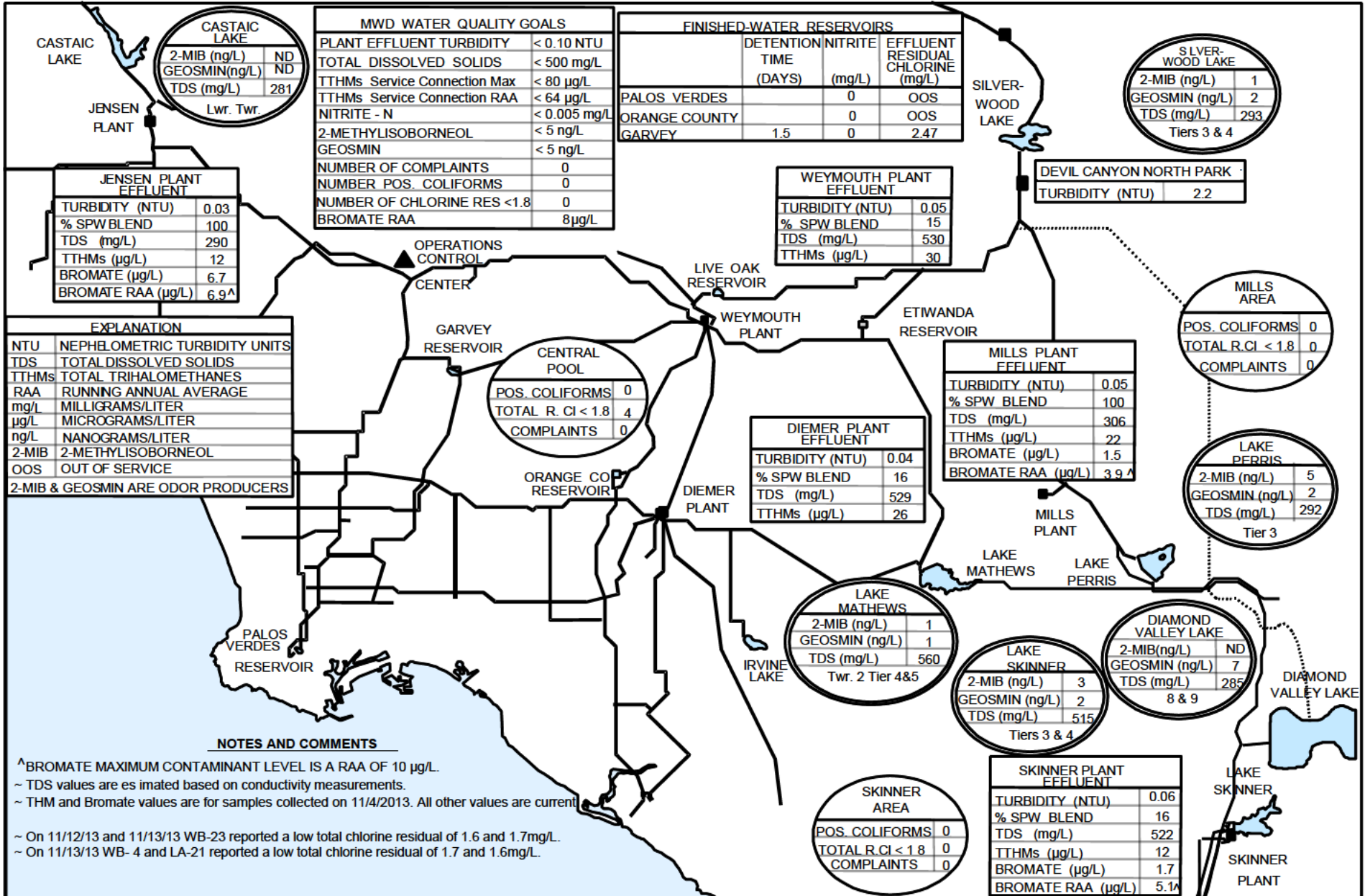
DTX-1126

Printed On: 11/13/2013 3:00:43 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



EXPLANATION	
NTU	NEPHELOMETRIC TURBIDITY UNITS
TDS	TOTAL DISSOLVED SOLIDS
TTHMs	TOTAL TRIHALOMETHANES
RAA	RUNNING ANNUAL AVERAGE
mg/l	MILLIGRAMS/LITER
µg/L	MICROGRAMS/LITER
ng/L	NANOGRAMS/LITER
2-MIB	2-METHYLISOBORNEOL
OOS	OUT OF SERVICE
2-MIB & GEOSMIN ARE ODOR PRODUCERS	

NOTES AND COMMENTS

- ^A BROMATE MAXIMUM CONTAMINANT LEVEL IS A RAA OF 10 µg/L.
- ~ TDS values are estimated based on conductivity measurements.
- ~ THM and Bromate values are for samples collected on 11/4/2013. All other values are current.
- ~ On 11/12/13 and 11/13/13 WB-23 reported a low total chlorine residual of 1.6 and 1.7 mg/L.
- ~ On 11/13/13 WB-4 and LA-21 reported a low total chlorine residual of 1.7 and 1.6 mg/L.

MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, November 20, 2013

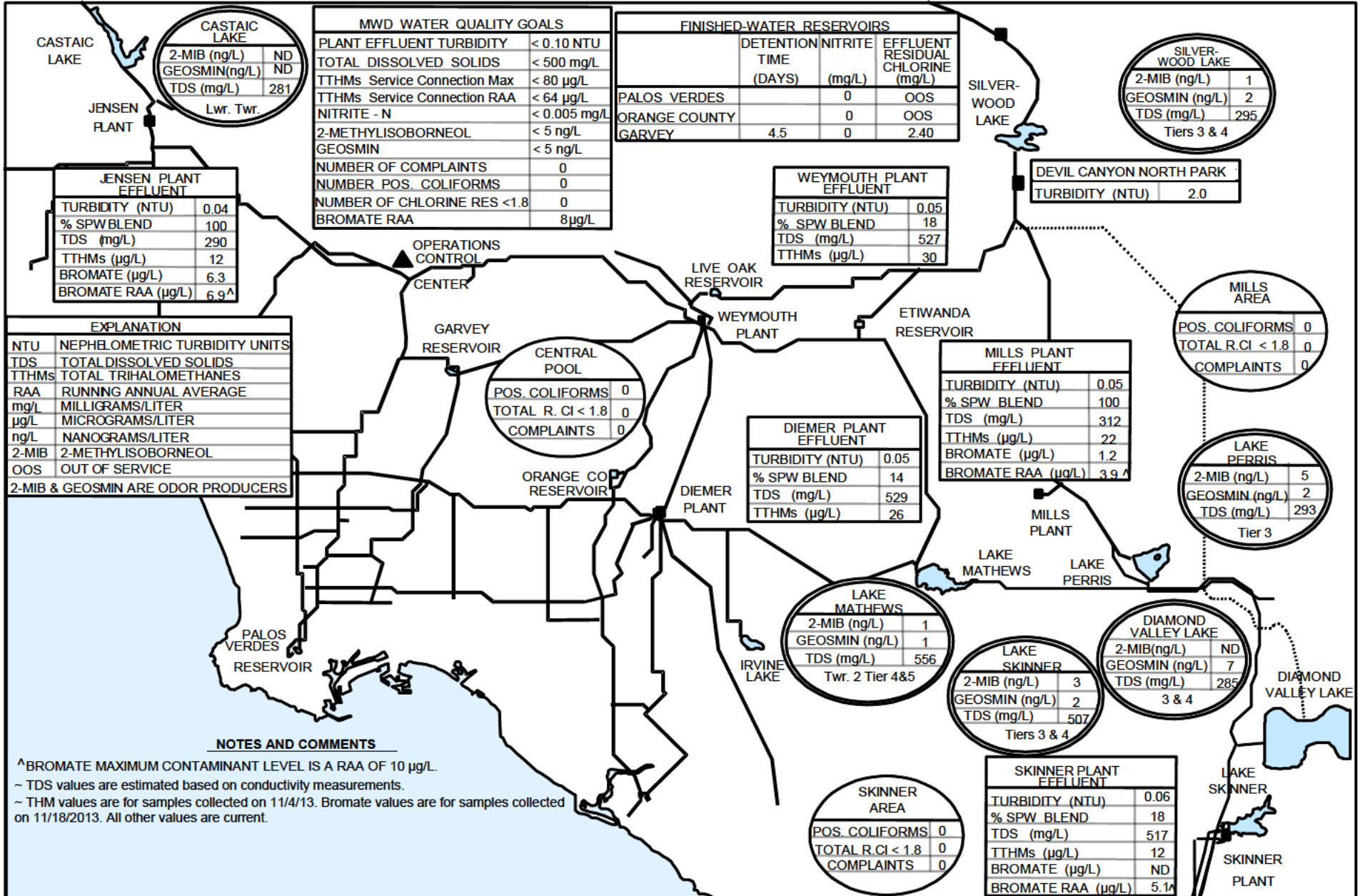
DTX-1126

Printed On: 11/20/2013 11:41:52 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Tuesday, November 26, 2013

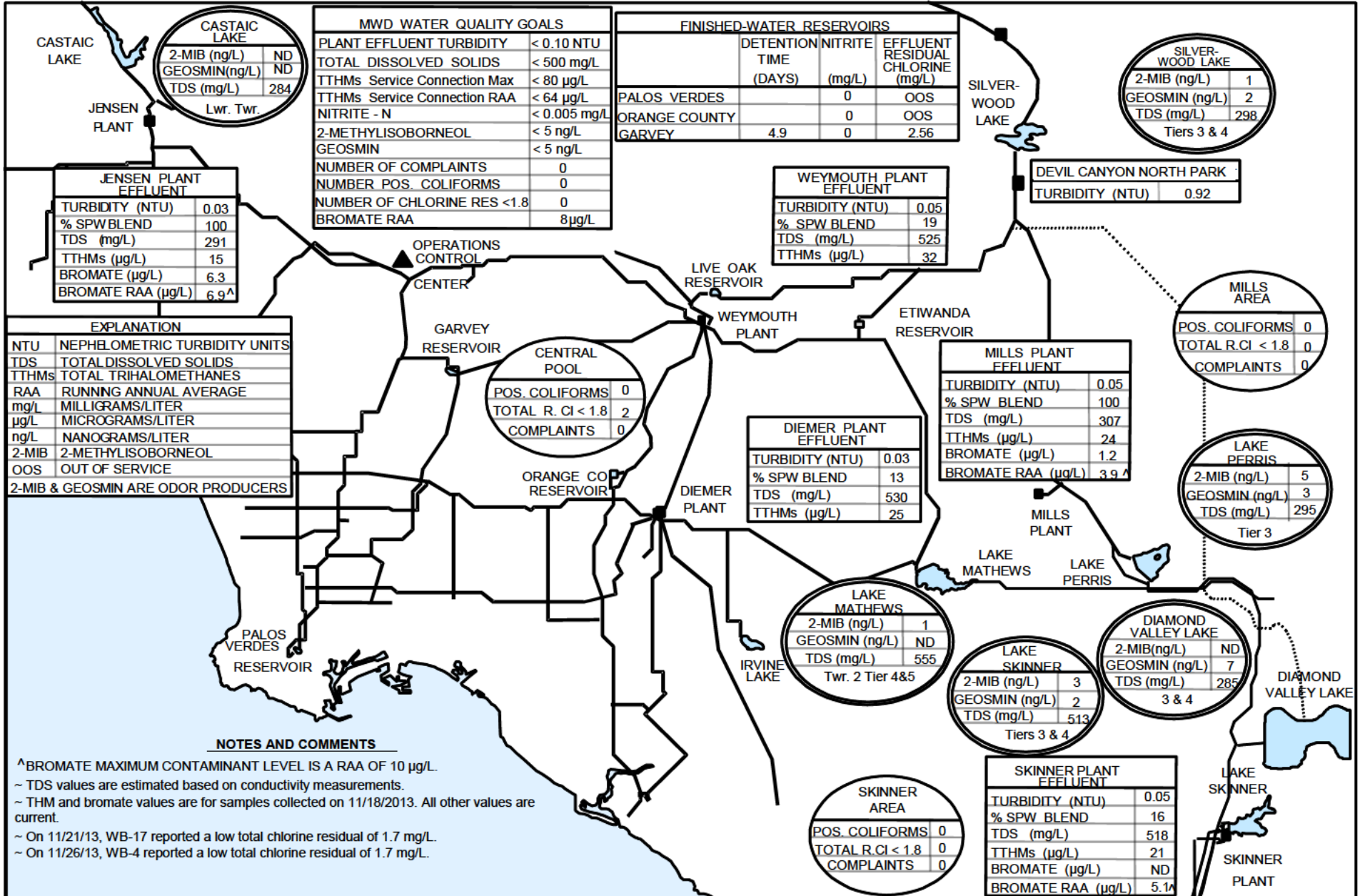
DTX-1126

Printed On: 11/26/2013 10:52:51 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, December 04, 2013

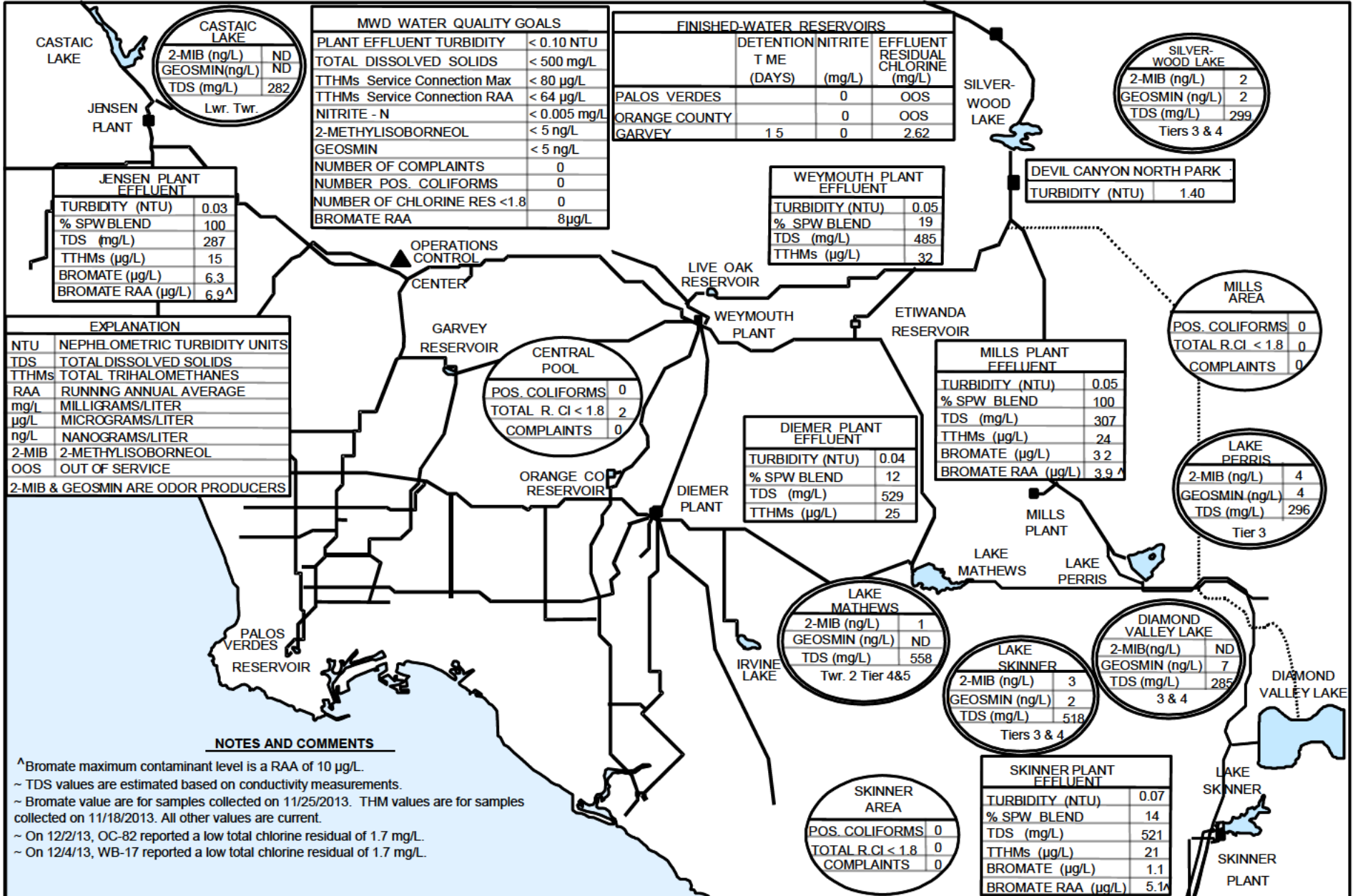
DTX-1126

Printed On: 12/4/2013 11:01:43 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, December 11, 2013

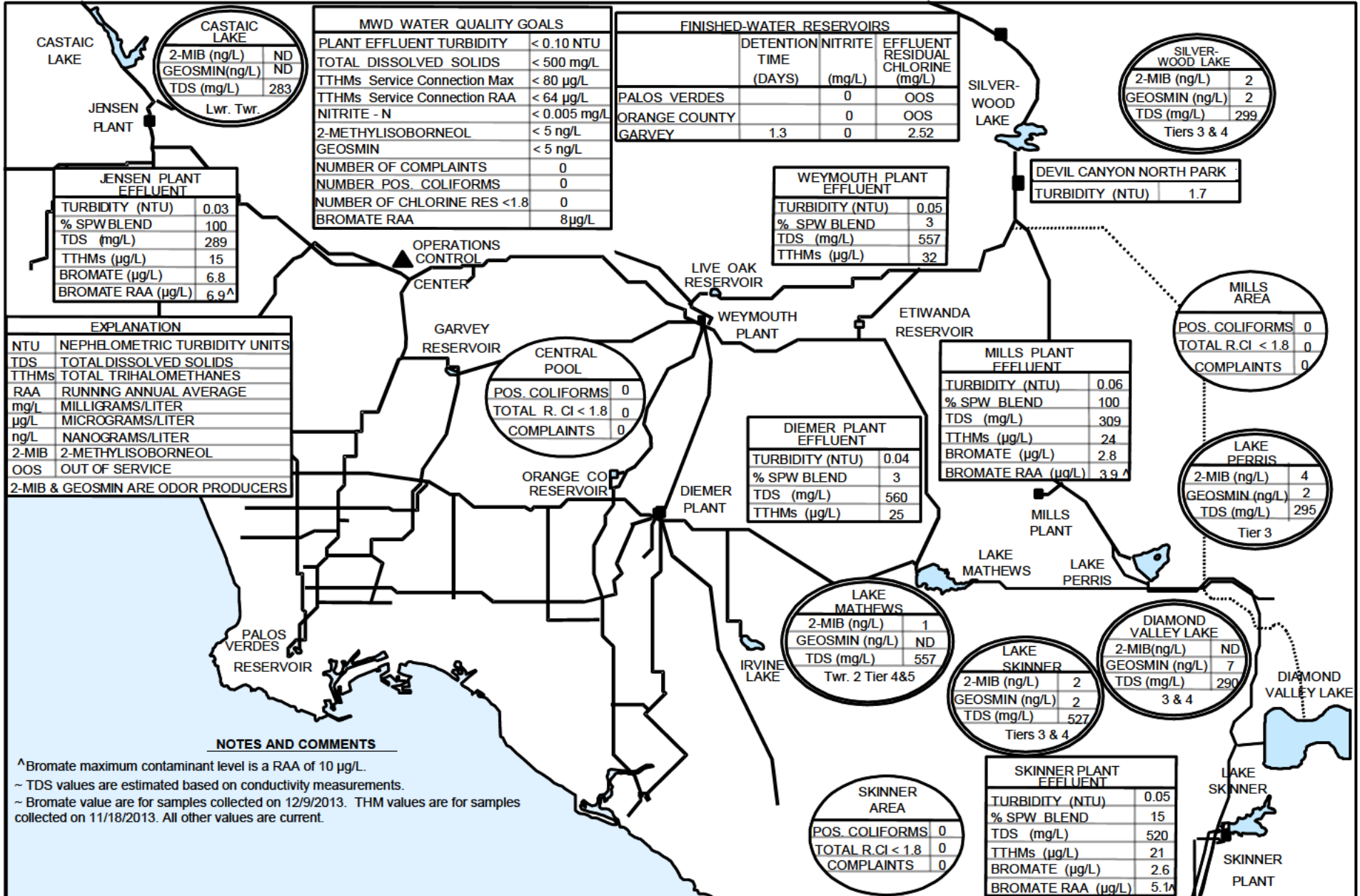
DTX-1126

Printed On: 12/11/2013 10:07:59 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, December 18, 2013

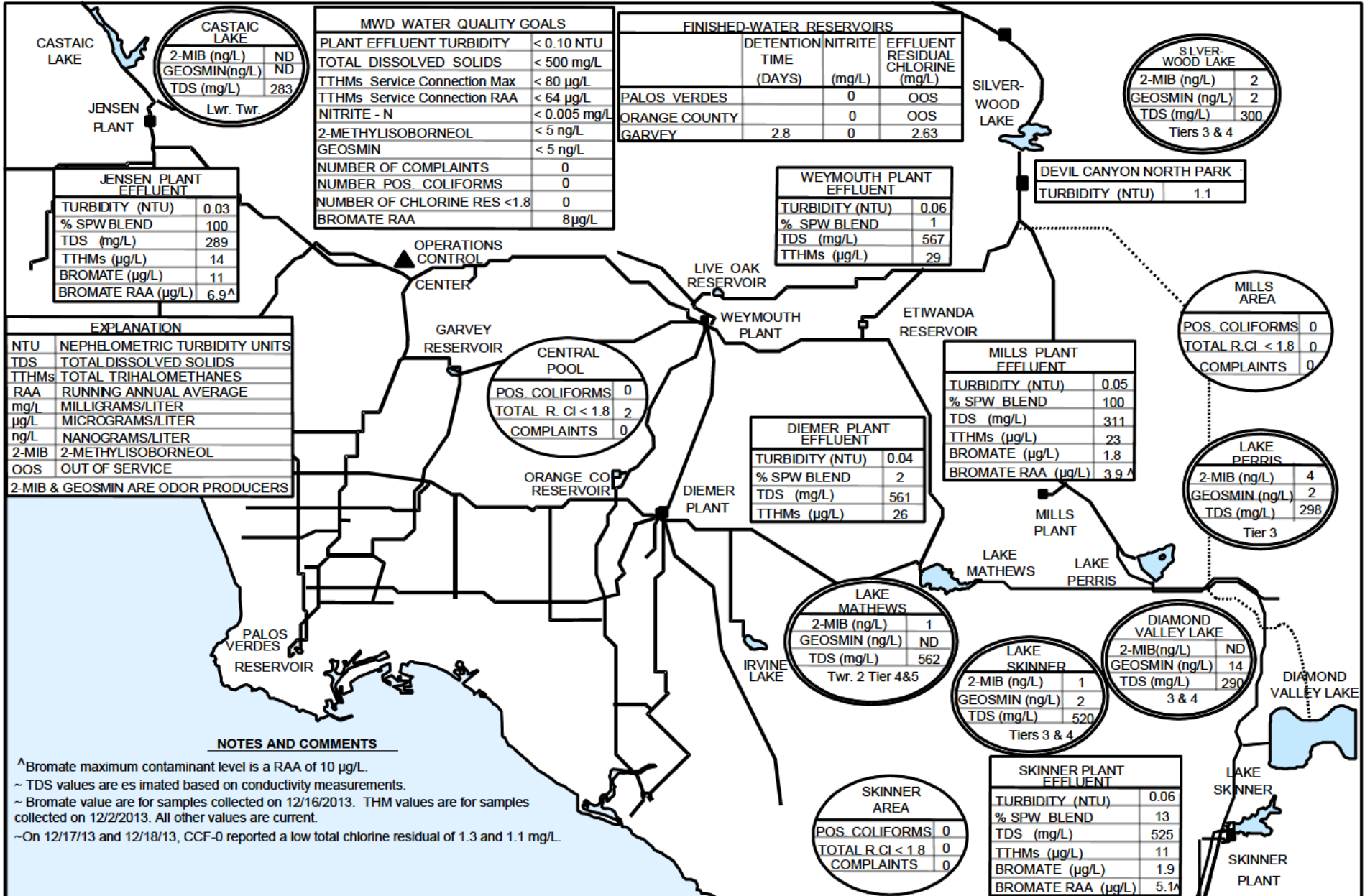
DTX-1126

Printed On: 12/19/2013 2:16:39 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, December 26, 2013

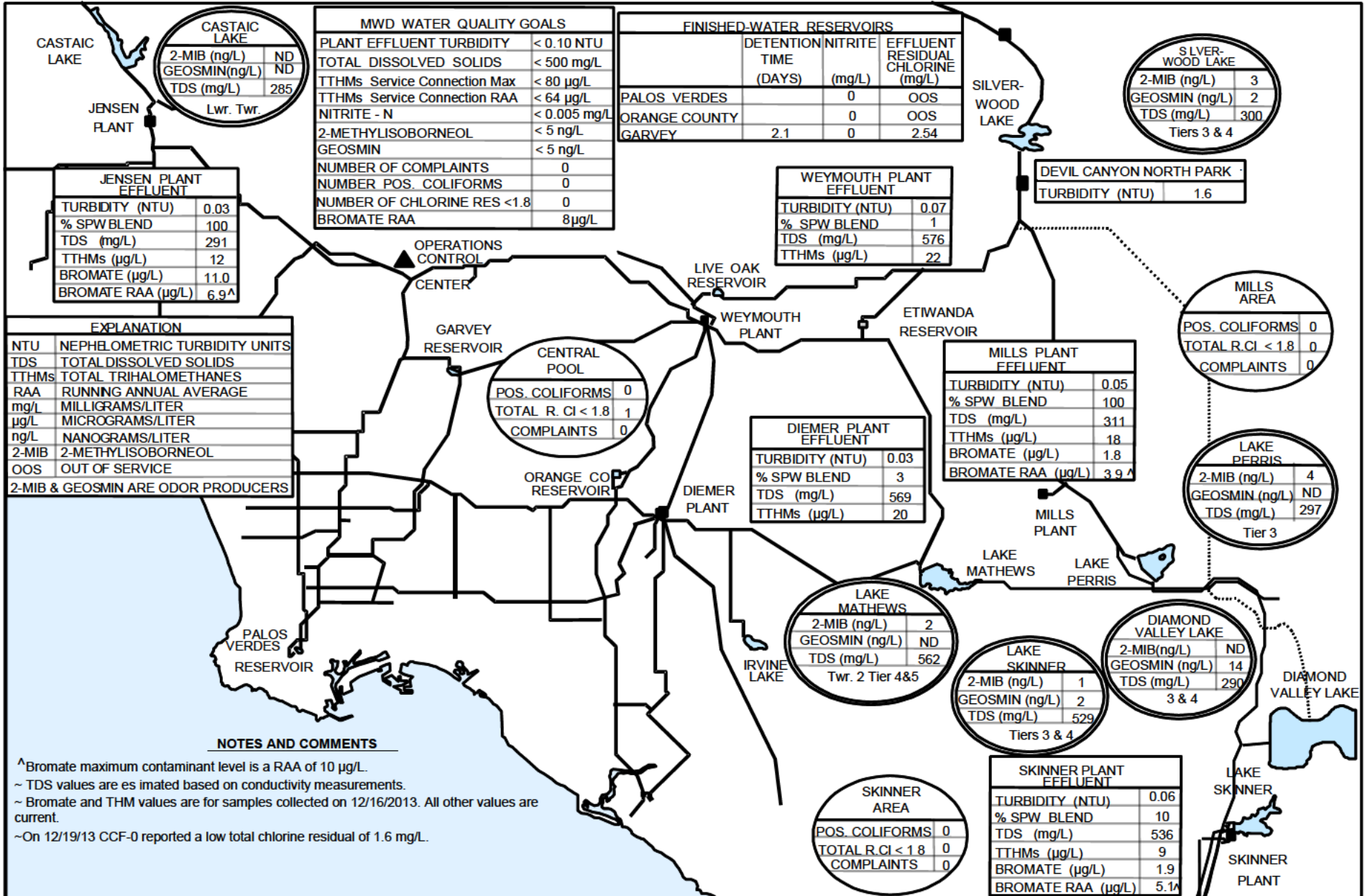
DTX-1126

Printed On: 12/26/2013 2:10:34 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Monday, December 30, 2013

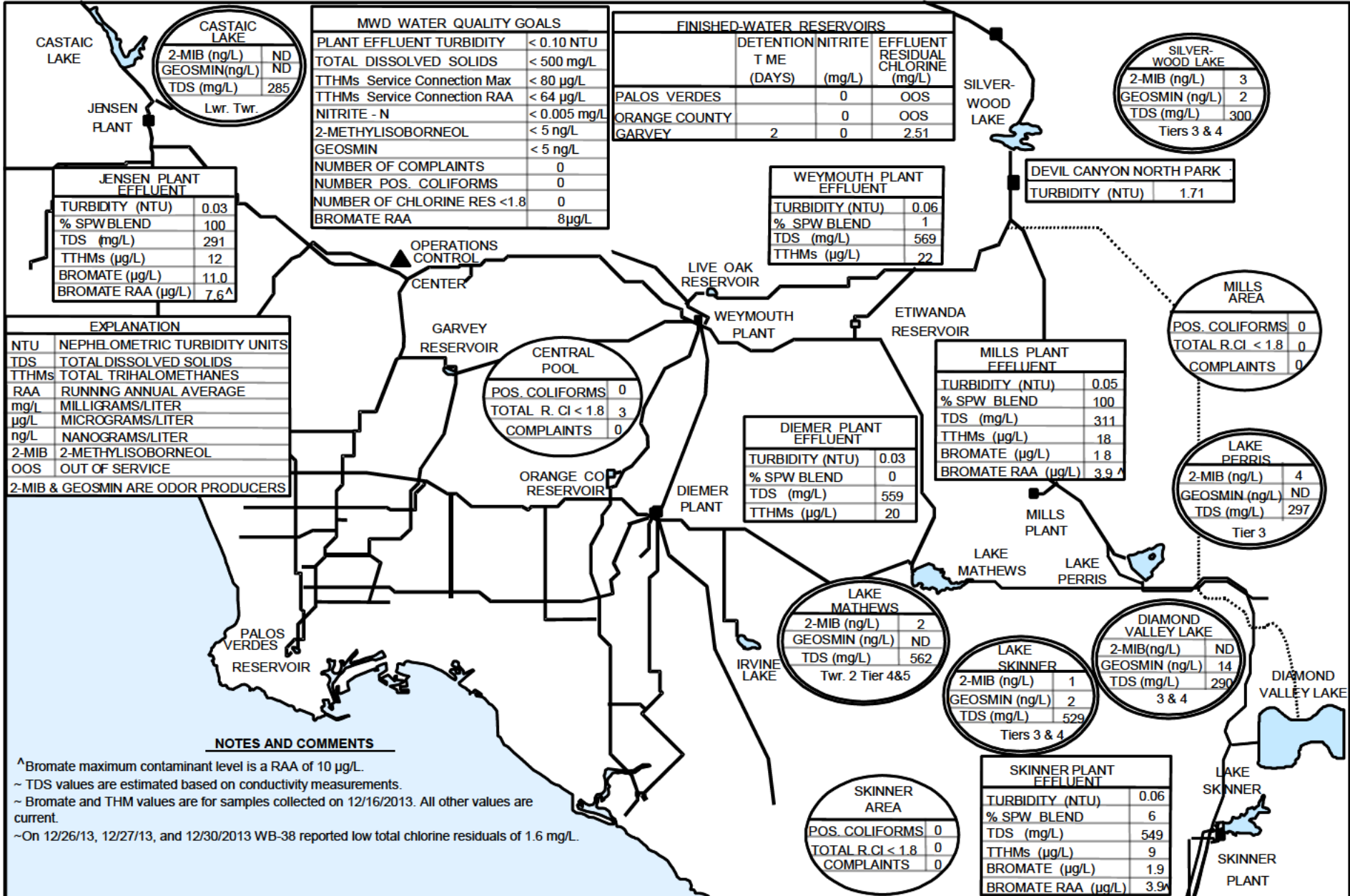
DTX-1126

Printed On: 12/30/2013 1:42:22 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

WEST POWER MARKETS

Dailies flat to up; terms advance

Western day-ahead power was flat to higher early Wednesday as packages traded for two days to accommodate end-of-the-month scheduling. Terms were up sharply.

In California, SP15 on-peak financial dailies for Thursday-Friday delivery edged up about \$1.50 in the low \$50s/MWh and NP15 on-peak for Thursday-Friday added about 75 cents in the low \$50s/MWh. SP15 off-peak gained about \$1 in the low \$40s/MWh and NP15 off-peak added about 75 cents in the low \$40s/MWh. Spot gas in the region gained with PG&E Citygate moving up about 22 cents to around \$5.22/MMBtu and SoCal Citygate spot was 19 cents higher to around \$5.26/MMBtu.

High temperatures on Thursday in California are projected to be in the mid-50s to low 60s with lows in the mid-40s to mid-50s. The California Independent System Operator forecast peak demand for Wednesday around 29,619 MW and 29,438 MW for Thursday. In the Southwest, Palo Verde on-peak for Thursday-Friday was steady in the low \$40s/MWh while off-peak edged up 25 cents in the mid-\$30s/MWh. Spot gas in the Southwest increased with Opal adding about 16 cents to around \$5.05/MMBtu. High temperatures in Phoenix on Thursday are projected to be in the mid-70s with lows in the upper 40s.

In the Northwest, Mid-Columbia on-peak for Thursday-Friday stayed in the upper \$30s/MWh and off-peak fell about \$1.25 to the mid-\$30s/MWh. Hydro generation in the BPA region on Wednesday was about 9,123 MW around 10:00 am EST with wind generation around 92 MW. High temperatures in the Northwest on Thursday are expected in the mid- to upper 40s with lows in the low 40s.

Day-ahead auction prices in the California ISO climbed Wednesday, with spot gas prices on the rise in the region. NP15 on-peak gained \$2.21, clearing around \$52.70/MWh and SP15 on-peak added \$1.95 to about \$53.28/MWh. ZP26 on-peak was up \$2.12, clearing near \$51.44/MWh.

Western US on-peak February terms went up sharply Wednesday, as did February natural gas futures in late trading. February NYMEX gas futures gained 52.4 cents to \$5.557/MMBtu. In the Northwest, Mid-Columbia on-peak February gained \$4.80, with bids at \$53.50 and offers at \$55.25/MWh on the IntercontinentalExchange around 2:30 pm EST. March moved up \$3.20 to about \$47/MWh, and the second quarter rose 80 cents to about \$37.65/MWh. In California, SP15 on-peak February financial terms leaped \$4.25, with bids at \$59.75 and offers at \$60.25/MWh. March jumped \$4.10 to about \$59/MWh, as Q2 climbed \$1.40 to about \$50.15/MWh. NP15 February jumped \$4.75 to about \$59.65/MWh and March surged \$4.25 to \$57.65/MWh. Palo Verde February increased \$4.75 to \$50.75/MWh, March moved up \$4.40 to about \$48.50/MWh and on-peak Q2 had no bids or offers in late trading on ICE.

Day-ahead markets for delivery Jan 30-31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	41.03	0.49	39.50-43.75	18	475	42.89
Mid-C	38.68	0.08	38.00-42.00	76	1,925	40.98
Palo Verde	42.34	-0.14	42.00-42.50	20	650	40.23
Mead	43.75	1.25	43.75-43.75	N.A.	N.A.	42.41
Mona	42.25	1.25	42.25-42.25	N.A.	N.A.	41.13
Four Corners	42.50	0.25	42.50-42.50	N.A.	N.A.	41.88
NP15	51.75	1.50	51.75-51.75	N.A.	N.A.	48.77
SP15	52.00	1.25	52.00-52.00	N.A.	N.A.	49.53
Off-Peak						
COB	39.34	1.56	37.75-40.75	8	200	39.66
Mid-C	36.03	-1.07	35.25-39.75	86	2,325	38.86
Palo Verde	35.25	0.25	35.25-35.25	N.A.	N.A.	33.92
Mead	36.50	0.25	36.50-36.50	N.A.	N.A.	35.79
Mona	35.00	2.00	35.00-35.00	N.A.	N.A.	33.24
Four Corners	33.50	1.25	33.50-33.50	N.A.	N.A.	33.42
NP15	43.75	1.00	43.75-43.75	N.A.	N.A.	42.19
SP15	43.25	1.25	43.25-43.25	N.A.	N.A.	42.13

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month (off-peak)	01/23	42.50-43.75

Generation unit outage report

Plant/Operator	Cap	Fuel	Stato	Status	Return	Shut
West						
Alamitos-3/AES	332	g	Calif.	PMO	Unk	01/13/14
Belden/PG&E	119	h	Calif.	PMO	Unk	01/27/14
Big Creek/SCE	820	h	Calif.	PMO	Unk	01/26/14
Coigate-2/YCWA	176	h	Calif.	PMO	Unk	01/13/14
Colusa/PG&E	668	g	Calif.	PMO	Unk	01/09/14
Coolwater-3/NRG	245	g	Calif.	PMO	Unk	01/05/14
Encina-3/NRG	110	g	Calif.	PMO	Unk	01/20/14
LaPaloma-3/LaPaGenco	256	g	Calif.	PMO	Unk	01/16/14
LaPaloma-4/LaPaGenco	260	g	Calif.	PMO	Unk	01/29/14
LaRosita/Intergen	322	g	Mex.	PMO	Unk	01/14/14
Metcalf/Calpine	593	g	Calif.	PMO	Unk	01/13/14
Morro Bay-4/Dynegy	325	g	Calif.	MO	Unk	01/12/14
Mountainview/SCE	525	g	Calif.	MO	Unk	12/17/13
Otay Mesa/Calpine	604	g	Calif.	PMO	Unk	01/27/14
Pine Flat/USACE	210	h	Calif.	PMO	Unk	10/02/13
Redondo-6/AES	175	g	Calif.	PMO	Unk	01/06/14
Redondo-8/AES	496	g	Calif.	PMO	Unk	01/20/14
Solar Star-1/MidAmerican	310	s	Calif.	MO	Unk	10/01/13
Solar Star-2/MidAmerican	270	s	Calif.	MO	Unk	10/01/13

WEST POWER MARKETS

Dailies down; terms flat to lower

West dailies were down Wednesday as packages traded for Thursday-Friday to accommodate end-of-the-month scheduling. Terms were flat to lower.

In California, SP15 day-ahead on-peak futures fell \$1.25 to about \$56.50/MWh for Thursday-Friday delivery on the InterContinentalExchange. SP15 day-ahead off-peak was down 25 cents to about \$46.50/MWh for Thursday-Friday delivery. SP15 on-peak packages for Saturday had a slight premium at about \$57/MWh. NP15 day-ahead on-peak futures decreased \$1.50 to about \$55/MWh on ICE. NP15 day-ahead off-peak futures were down \$1 to about \$46/MWh for Thursday-Friday delivery. Spot gas in the region edged higher, with PG&E city-gate up 4 cents to about \$5.46/MMBtu and SoCal city-gate up 10 cents to about \$5.45/MMBtu.

High temperatures on Thursday in California are expected in upper 50s to low 60s, with lows in the low to mid-50s. The California Independent System Operator forecast peak demand for Wednesday at 28,266 MW and 28,563 MW for Thursday. In the Southwest, Palo Verde day-ahead on-peak dropped \$4 to about \$43.25/MWh for Thursday-Friday delivery, as day-ahead off-peak lost \$2.50 to about \$35.50/MWh. Spot gas in the Southwest was up 9 cents, with Opal at about \$5.30/MMBtu. High temperatures in Phoenix on Thursday are projected in the upper 70s, with lows in upper 50s.

In the Northwest, Mid-Columbia day-ahead on-peak shed \$5 to about \$47/MWh on ICE and Mid-C day-ahead off-peak decreased \$5.50 to about \$42.75/MWh. High temperatures in the Northwest on Thursday are expected in the low to mid-50s, with lows in the low 40s.

California ISO day-ahead auction prices moved down Wednesday, even with steady demand and firm spot gas prices. SP15 on-peak fell \$6.11, clearing at \$55.30/MWh and NP15 on-peak dropped \$5.49 to \$55.22/MWh. ZP26 on-peak lost \$6.66, going to \$54.56/MWh.

Western US on-peak forwards were flat to lower Wednesday with losses in the natural gas futures. March NYMEX gas futures fell 24.1 cents to \$4.855/MMBtu. In the Northwest, Mid-Columbia on-peak March eased 10 cents to about \$46.25/MWh on the InterContinentalExchange. Mid-C on-peak second quarter lost \$1.30 to about \$32.35/MWh. Mid-C on-peak third quarter was nearly flat at about \$51.50/MWh. In California, SP15 on-peak March financial terms fell 50 cents to about \$57.25/MWh. SP15 Q2 gave up 85 cents to about \$51/MWh and Q3 edged up 25 cents to about \$59.75/MWh. NP15 March gave up 40 cents to about \$55.50/MWh. In the Southwest, Palo Verde on-peak March lost 50 cents to about \$46/MWh.

Day-ahead markets for delivery Feb 27-28 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	49.23	-3.77	49.00-49.50	10	250	73.13
Mid-C	47.16	-4.79	46.00-49.50	84	2,350	73.97
Palo Verde	43.31	-4.00	43.00-44.00	29	775	61.66
Mead	47.00	-5.41	47.00-47.00	N.A.	N.A.	68.08
Mona	41.75	-6.25	41.75-41.75	N.A.	N.A.	63.73
Four Corners	42.75	-5.00	42.75-42.75	N.A.	N.A.	63.50
NP15	55.50	-1.00	55.50-55.50	N.A.	N.A.	71.33
SP15	56.50	-1.25	56.50-56.50	N.A.	N.A.	71.85
Off-Peak						
COB	43.81	-5.14	43.00-44.75	11	325	62.92
Mid-C	42.61	-5.70	42.00-44.00	45	1,150	64.63
Palo Verde	35.50	-2.25	35.50-35.50	N.A.	N.A.	48.89
Mead	40.00	-2.00	40.00-40.00	N.A.	N.A.	51.50
Mona	30.75	-0.75	30.75-30.75	N.A.	N.A.	48.26
Four Corners	32.50	-1.75	32.50-32.50	N.A.	N.A.	46.88
NP15	46.00	-1.00	46.00-46.00	N.A.	N.A.	57.88
SP15	46.50	-0.25	46.50-46.50	N.A.	N.A.	56.92

Near-term markets (\$/MWh)

Contract	Tranacted	Deal
Mid-C		
Bal-month	02/21	68.00-74.00
Bal-month	02/20	65.00-75.00
Bal-month (off-peak)	02/24	51.50-52.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Alamitos-4/AES	336	g	Calif.	PMO	Unk	02/10/14
Alamitos-5/AES	498	g	Calif.	PMO	Unk	02/25/14
Alamitos-6/AES	495	g	Calif.	PMO	Unk	02/25/14
Belden/P&G&E	119	h	Calif.	PMO	Unk	01/27/14
Coigate-2/YCWA	176	h	Calif.	PMO	Unk	01/13/14
Coolwater-3/NRG	245	g	Calif.	PMO	Unk	01/05/14
Diablo-1/P&G&E	1150	n	Calif.	PMO	Unk	02/10/14
Eastwood/SCE	200	h	Calif.	PMO	Unk	02/03/14
Encina-4/NRG	300	g	Calif.	PMO	Unk	02/17/14
Etiwanda-3/NRG	320	g	Calif.	PMO	Unk	02/17/14
Etiwanda-4/NRG	320	g	Calif.	PMO	Unk	02/10/14
Helms-3/P&G&E	404	h	Calif.	PMO	Unk	02/09/14
Intermountain-2/IPP	900	c	Utah	PMO	Unk	02/23/14
Los Esteros/Calpine	294	g	Calif.	PMO	Unk	02/25/14
Metcalf/Calpine	593	g	Calif.	MO	Unk	02/23/14
Morro Bay-3/Dynegy	325	g	Calif.	MO	Unk	02/06/14
Morro Bay-4/Dynegy	325	g	Calif.	MO	Unk	01/12/14
OrmondBch-2/NRG	775	g	Calif.	PMO	Unk	02/02/14
Palomar/SDG&E	575	g	Calif.	PMO	Unk	02/03/14
Pine Flat/USACE	210	h	Calif.	PMO	Unk	10/02/13
Redondo-7/AES	506	g	Calif.	PMO	Unk	02/17/14
Satwood-Midway/Starwood	120	g	Calif.	PMO	Unk	02/25/14
Solar Star-1/MidAmerican	310	s	Calif.	MO	Unk	10/01/13
Solar Star-2/MidAmerican	270	s	Calif.	MO	Unk	10/01/13
Sunrise/Edison	586	g	Calif.	PMO	Unk	02/06/14

WEST POWER MARKETS

West dailies higher; forwards ease

West dailies were higher Friday with the for-Monday premium, higher expected demand, and firmer spot gas prices. Terms were lower.

In the Northwest, Mid-Columbia day-ahead on-peak jumped \$15 to about \$31.50/MWh for Monday delivery on the InterContinentalExchange. Mid-C day-ahead off-peak gained \$8.50 to about \$11.75/MWh for all-day Sunday and Monday delivery. High temperatures in the Northwest on Monday are forecast in the mid-50s with lows in the upper 30s to low 40s.

In California, SP15 day-ahead on-peak futures jumped \$4.50 to about \$51/MWh. SP15 day-ahead off-peak added \$4.50 to about \$42.50/MWh. NP15 day-ahead on-peak futures gained \$4 to about \$50.75/MWh on ICE. NP15 day-ahead off-peak futures added \$4.50 to about \$43.50/MWh. Spot gas in the region was up with PG&E Citygate adding five cents to about \$4.98/MMBtu and SoCal Citygate up one cent to about \$4.80/MMBtu. High temperatures on Monday in California are expected in the low 50s to low 60s with lows in the low 40s to mid-50s.

The California Independent System Operator forecast peak demand for Friday at about 27,619 MW; 25,642 MW for Saturday; 26,310 MW for Sunday; and 28,895 MW for Monday. In the Southwest, Palo Verde day-ahead on-peak gained \$1.50 to about \$41.75/MWh and PV day-ahead off-peak was up \$2 to about \$34.25/MWh. Spot gas in the Southwest was up with Opal rising one cent to about \$4.43/MMBtu. High temperatures in Phoenix on Monday are expected in the low 80s with lows in the mid-50s.

California ISO day-ahead auction prices were down Friday with lower forecast demand over the weekend. SP15 on-peak lost \$4.70 clearing at \$44.94/MWh for Saturday delivery. NP15 on-peak was down \$3.30 to \$44.38/MWh and ZP26 on-peak dipped \$3.39 to \$43.39/MWh.

Western US forwards were lower Friday with NYMEX gas futures moving down. May NYMEX gas futures fell 5.3 cents to \$4.485/MMBtu. In the Northwest, Mid-Columbia on-peak April eased 25 cents to about \$27.75/MWh on the InterContinentalExchange at about 2:30 p.m. EDT. Mid-C off-peak April were unchanged at about \$13/MWh. Mid-C on-peak second quarter lost 65 cents to about \$25/MWh. Mid-C on-peak third quarter dropped 55 cents to about \$45.75/MWh. In California, SP15 on-peak April financial terms lost 40 cents to about \$48.75/MWh. SP15 on-peak Q2 dropped 55 cents to about \$48/MWh and on-peak Q3 was steady at about \$58/MWh. NP15 on-peak April lost 15 cents going to about \$48.25/MWh. In the Southwest, Palo Verde on-peak April added 35 cents to about \$41.25/MWh.

Day-ahead markets for delivery Mar 31 (\$/MWh)

West*	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	35.65	14.55	32.50-37.50	22	875	36.26
Mid-C	31.95	15.26	28.00-34.25	83	2,850	32.01
Palo Verde	41.78	1.53	41.50-42.00	7	200	42.19
Mead	43.00	3.25	43.00-43.00	N.A.	N.A.	44.22
Mona	37.75	6.00	37.75-37.75	N.A.	N.A.	35.81
Four Corners	39.50	3.75	39.50-39.50	N.A.	N.A.	39.24
NP15	52.00	5.25	52.00-52.00	N.A.	N.A.	51.25
SP15	52.00	5.50	52.00-52.00	N.A.	N.A.	52.06
Off-Peak						
COB	20.75	9.78	17.75-22.00	19	950	24.42
Mid-C	12.51	9.47	10.00-15.25	98	3,375	18.01
Palo Verde	34.75	3.50	34.75-34.75	N.A.	N.A.	33.20
Mead	32.25	2.00	32.25-32.25	N.A.	N.A.	33.73
Mona	27.50	7.00	27.50-27.50	N.A.	N.A.	24.67
Four Corners	30.00	4.00	30.00-30.00	N.A.	N.A.	28.02
NP15	43.75	4.75	43.75-43.75	N.A.	N.A.	42.23
SP15	42.75	4.75	42.75-42.75	N.A.	N.A.	41.15

*West off-peak includes all day Sunday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month (off-peak)	03/24	8.50-9.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Alamitos-5/AES	498	g	Calif.	PMO	Unk	03/10/14
Belden/PG&E	119	h	Calif.	PMO	Unk	01/27/14
Big Creek/SCE	820	h	Calif.	PMO	Unk	03/27/14
Blythe/Altagas	493	g	Calif.	PMO	Unk	03/02/14
Colgate-2/YCWA	176	h	Calif.	PMO	Unk	01/13/14
Colusa/PG&E	668	g	Calif.	PMO	Unk	03/15/14
Coolwater-4/NRG	246	g	Calif.	PMO	Unk	03/19/14
Crocket/Crocket	240	g	Calif.	PMO	Unk	03/23/13
D.VonRaesfeld/SVP	148	g	Calif.	MO	Unk	03/20/14
Encina-1/NRG	106	g	Calif.	PMO	Unk	03/23/13
Harbor/Harbor	109	g	Calif.	PMO	Unk	03/17/14
Helms-2/PG&E	407	h	Calif.	PMO	Unk	03/23/13
Helms-3/PG&E	404	h	Calif.	PMO	Unk	02/09/14
Intermountain-1/IPPP	900	c	Utah	PMO	Unk	03/15/14
Ivanpah-2/Brightsource	133	s	Calif.	PMO	Unk	03/24/14
LaPaloma-1/LaPaGenco	260	g	Calif.	PMO	Unk	03/25/14
LaPaloma-2/LaPaGenco	260	g	Calif.	PMO	Unk	03/27/14
LaRosita/Intergen	180	g	Mex.	PMO	Unk	03/18/14
Mandalay-2/NRG	215	g	Calif.	PMO	Unk	03/16/14
Morro Bay-3/Dynegy	325	g	Calif.	MO	Unk	03/03/14
Morro Bay-4/Dynegy	325	g	Calif.	MO	Unk	03/03/14
Palomar/SDG&E	575	g	Calif.	PMO	Unk	02/03/14
Pine Flat/USACE	210	h	Calif.	PMO	Unk	10/02/13
Redondo-5/AES	179	g	Calif.	PMO	Unk	03/17/14
Redondo-7/AES	506	g	Calif.	PMO	Unk	02/17/14
Solar Star-2/MidAmerican	270	s	Calif.	MO	Unk	10/01/13

Daily generation outage references

MO	unplanned maintenance outage	RF	refueling outage
PMO	planned maintenance outage	Unk	unknown
OA	offline/available		
Fuels: Nuclear=n; Coal=c; Natural gas=g; Hydro=h; Wind=w			
Sources: Generation owners, public information and other market sources.			

WEST POWER MARKETS

West dailies, terms mixed

West dailies were mixed Tuesday with warm weather expected to push up demand in California and slightly firmer spot natural gas prices. Terms were also mixed.

In California, SP15 day-ahead on-peak futures added \$1.50 to about \$56.50/MWh for Wednesday delivery on the InterContinentalExchange. SP15 day-ahead off-peak gained \$2 to about \$40/MWh for Wednesday delivery. SP15 balance-of-the-week on-peak was down about \$5 to about \$58/MWh. NP15 day-ahead on-peak futures were up \$3.25 to about \$59.50/MWh on ICE. NP15 day-ahead off-peak futures were steady at about \$41/MWh. NP15 balance-of-the-week on-peak were at about \$55/MWh.

Spot gas in the region was slightly higher with PG&E Citygate adding 1 cent to about \$5.24/MMBtu and SoCal Citygate climbing 5 cents to about \$5.05/MMBtu. High temperatures on Wednesday in California are projected to be in the 80s with lows in the low 50s to low 60s. The California Independent System Operator forecast peak load for Tuesday at about 32,466 MW; 33,905 MW for Wednesday; and 35,263 MW for Thursday. In the Southwest, Palo Verde day-ahead on-peak gained \$2 to about \$41.50/MWh and Palo Verde day-ahead off-peak gained \$1 to about \$32/MWh. High temperatures in Phoenix on Wednesday are predicted to be in the upper 80s with lows in the mid-60s.

In the Northwest, Mid-Columbia day-ahead on-peak fell \$3.25 to about \$36.75/MWh. Mid-C day-ahead off-peak eased \$1 to about \$20.75/MWh. High temperatures in the Northwest on Wednesday are predicted to be in the low 80s with lows in the low to mid-50s.

California ISO day-ahead auction prices continued to go up with demand expected to climb midweek on warm weather. NP15 on-peak gained \$4.35 to clear at about \$58.13/MWh for Wednesday delivery. SP15 on-peak added \$5.76 clearing at \$56.68/MWh and ZP26 on-peak added \$6.07 to about \$52.88/MWh.

Western US forwards were mixed Tuesday with an uptick in NYMEX gas futures. June NYMEX gas futures gained 3.2 cents to \$4.831/MMBtu. In the Northwest, Mid-Columbia on-peak May jumped \$1.10 to about \$29.75/MWh on the InterContinentalExchange at about 2:30 p.m. EDT. Mid-C off-peak May climbed 65 cents to about \$8.25/MWh. Mid-C on-peak June eased 10 cents to about \$29.25/MWh. Mid-C on-peak third quarter rose 75 cents to about \$49/MWh. In California, SP15 on-peak May financial terms decreased \$1.15 to about \$48.50/MWh. SP15 on-peak June fell 25 cents to about \$50.25/MWh and on-peak Q3 shed 10 cents to about \$59.50/MWh. NP15 on-peak May was unchanged at about \$50.50/MWh. In the Southwest, Palo Verde on-peak May gave up five cents to about \$43.75/MWh.

Day-ahead markets for delivery Apr 30 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	47.32	1.36	44.50-49.50	22	575	38.24
Mid-C	36.75	-4.28	35.55-40.00	131	3,700	31.08
Palo Verde	41.04	1.54	40.50-42.25	5	150	40.84
Mead	45.50	2.00	45.50-45.50	N.A.	N.A.	42.70
Mona	41.00	3.50	41.00-41.00	N.A.	N.A.	35.56
Four Corners	40.50	-0.25	40.50-40.50	N.A.	N.A.	38.65
NP15	59.25	3.00	59.25-59.25	N.A.	N.A.	52.78
SP15	56.50	1.50	56.50-56.50	N.A.	N.A.	51.19
Off-Peak						
COB	25.19	-1.82	24.00-28.00	19	625	22.86
Mid-C	20.89	-0.92	18.00-23.00	106	3,175	16.78
Palo Verde	32.25	1.25	32.25-32.25	N.A.	N.A.	32.93
Mead	34.75	0.00	34.75-34.75	N.A.	N.A.	34.65
Mona	28.00	2.00	28.00-28.00	N.A.	N.A.	25.98
Four Corners	30.50	3.50	30.50-30.50	N.A.	N.A.	28.82
NP15	42.00	1.00	42.00-42.00	N.A.	N.A.	41.07
SP15	40.25	2.25	40.25-40.25	N.A.	N.A.	39.74

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	04/25	42.00-43.00
Bal-month	04/24	40.00-42.00
Bal-month	04/23	34.25-35.50

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Alamitos-6/AES	495	g	Calif.	PMO	Unk	04/07/14
Belden/PG&E	119	h	Calif.	PMO	Unk	01/27/14
Colgate-2/YCWA	176	h	Calif.	PMO	Unk	01/13/14
Encina-5/NRG	330	g	Calif.	PMO	Unk	04/20/14
Helms-3/PG&E	404	h	Calif.	PMO	Unk	02/09/14
Lodi/NCPA	302	g	Calif.	PMO	Unk	04/14/14
Malburg/Vernon	134	g	Calif.	PMO	Unk	04/28/14
Morro Bay-3/Dynergy	325	g	Calif.	MO	Unk	03/03/14
Morro Bay-4/Dynergy	325	g	Calif.	MO	Unk	03/03/14
Palo Verde-2/APS	1428	n	Ariz.	PMO	Unk	04/05/14
Pine Flat/USACE	210	h	Calif.	PMO	Unk	10/02/13
Redondo Beach-6/AES	175	g	Calif.	MO	Unk	04/12/14
Richmond Refinery/Chevron	114	g	Calif.	PMO	Unk	04/14/14

WEST POWER MARKETS

West dailies mixed; terms rise

West dailies were mixed Thursday with lower forecast demand and firmer spot natural gas prices. Terms were up.

In California, SP15 day-ahead on-peak futures fell \$2 to about \$48.75/MWh for Friday-Saturday delivery on the InterContinentalExchange. SP15 day-ahead off-peak gained \$2.25 to about \$37.75/MWh for Friday-Saturday delivery. NP15 day-ahead on-peak futures lost \$1.75 to about \$48.25/MWh on ICE. NP15 day-ahead off-peak futures were up 50 cents to about \$38/MWh. Spot gas in the region moved up with PG&E Citygate adding 7 cents to about \$5.10/MMBtu and SoCal Citygate gaining 2 cents to about \$4.97/MMBtu.

High temperatures on Friday in California are expected in the mid-60s to mid-80s with lows in the 50s. The California Independent System Operator forecast peak demand on Thursday at about 32,453 MW; 31,002 MW for Friday; 27,679 for Saturday; and 28,256 MW for Sunday. In the Southwest, Palo Verde day-ahead on-peak edged up 75 cents to about \$43.75/MWh and Palo Verde day-ahead off-peak gained \$2.25 to about \$32.25/MWh.

High temperatures in Phoenix on Friday are expected near 103 with lows in upper 70s. In the Northwest, Mid-Columbia day-ahead on-peak fell \$1.50 to about \$32.25/MWh. Mid-C day-ahead off-peak was nearly flat at about \$0.00/MWh. High temperatures in the Northwest at the end of the week are expected in the low to mid-70s with lows in the upper 40s.

California ISO day-ahead auction prices were down Thursday with lower expected demand. NP15 on-peak fell \$2.07 to clear at \$50.41/MWh, and SP15 on-peak was off \$3.33 to \$50.49/MWh. ZP26 on-peak slipped 46 cents to about \$49.72/MWh.

Western US forwards were higher Thursday even as NYMEX natural gas futures moved down. July NYMEX gas futures fell 5.6 cents to \$4.559/MMBtu. In the Northwest, Mid-Columbia on-peak June added 75 cents to about \$33.50/MWh on the InterContinentalExchange at about 2:30 p.m. EDT. Mid-C off-peak June rose \$1 to about \$5/MWh. Mid-C on-peak July edged up 10 cents to about \$47/MWh. Mid-C on-peak third quarter was off 65 cents to about \$48.75/MWh. In California, SP15 on-peak June financial terms rose 25 cents to about \$51/MWh. SP15 on-peak July advanced 50 cents to about \$58/MWh and on-peak Q3 was down 25 cents to about \$58.25/MWh. NP15 on-peak June climbed 65 cents to about \$51/MWh. In the Southwest, Palo Verde on-peak June edged up 25 cents to about \$45/MWh.

Day-ahead markets for delivery May 30-31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	38.50	-1.56	37.00-40.50	8	350	41.59
Mid-C	32.26	-1.37	30.50-33.50	159	4,225	33.77
Palo Verde	43.75	0.75	43.75-43.75	N.A.	N.A.	42.25
Mead	43.25	-0.75	43.25-43.25	N.A.	N.A.	44.02
Mona	40.00	-1.50	40.00-40.00	N.A.	N.A.	40.70
Four Corners	42.75	0.50	42.75-42.75	N.A.	N.A.	41.21
NP15	49.50	-0.50	49.50-49.50	N.A.	N.A.	52.63
SP15	48.75	-2.00	48.75-48.75	N.A.	N.A.	51.85
Off-Peak						
COB	7.00	0.76	6.00-7.75	11	325	13.02
Mid-C	0.10	0.22	-0.75-0.75	102	3,200	5.81
Palo Verde	32.05	2.30	30.50-33.00	13	475	31.24
Mead	33.75	2.50	33.75-33.75	N.A.	N.A.	33.35
Mona	29.00	2.00	29.00-29.00	N.A.	N.A.	27.07
Four Corners	28.50	-1.50	28.50-28.50	N.A.	N.A.	29.02
NP15	38.00	0.50	38.00-38.00	N.A.	N.A.	39.84
SP15	37.75	2.25	37.75-37.75	N.A.	N.A.	37.99

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	05/19	36.00-37.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Colgate-2/YCWA	176	h	Calif.	PMO	Unk	01/13/14
Desert Star/SDG&E	495	g	Calif.	PMO	Unk	05/08/14
Haas-1,2/PG&E	144	h	Calif.	MO	Unk	05/27/14
Inland Empire-2/GE	366	g	Calif.	PMO	Unk	05/01/14
LaPaloma-4/LaPaGenco	260	g	Calif.	PMO	Unk	05/26/14
Palomar/Sempra	575	g	Calif.	MO	Unk	05/06/14
Richmond/Chevron	114	g	Calif.	PMO	Unk	05/26/14

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WEST POWER MARKETS

West dailies higher; forwards lower

West dailies jumped Friday with demand forecast higher with warmer weather in the mix. Terms were down.

In California, SP15 day-ahead on-peak futures jumped \$7.75 to about \$54.75/MWh for Monday delivery on the InterContinentalExchange. SP15 day-ahead off-peak added \$6.50 to about \$42.75/MWh for all-day Sunday and Monday delivery. NP15 day-ahead on-peak futures were up about \$10 to about \$57/MWh on ICE. Spot gas in the region was down with PG&E Citygate losing 20 cents to about \$4.90/MMBtu and SoCal Citygate off 28 cents to about \$4.67/MMBtu.

High temperatures in California on Monday are forecast in the mid-70s to over 100 with lows in the mid-50s to mid-60s. The California Independent System Operator projected peak demand on Friday at 33,895 MW; 31,680 MW for Saturday; 32,930 MW for Sunday; and jumping up to 39,370 MW for Monday. In the Southwest, Palo Verde day-ahead on-peak gained \$1.50 to about \$47/MWh and Palo Verde day-ahead off-peak was boosted \$7.75 to about \$38/MWh.

High temperatures in Phoenix on Monday are predicted to be around 108 with lows in the low 80s. In the Northwest, Mid-Columbia day-ahead on-peak jumped \$11 to about \$38/MWh. Mid-C day-ahead off-peak advanced \$6 to about \$7.75/MWh. High temperatures in the Northwest on Monday are expected in the low 70s to low 80s with lows in the mid-50s.

California ISO day-ahead auction prices were lower Friday with the typical dip in demand over the weekend. NP15 on-peak gave up \$3.90 dropping down to \$44.07/MWh, and SP15 on-peak shed \$2.70 to \$44.91/MWh. ZP26 on-peak lost \$2.83 clearing at \$43.53/MWh.

Western US forwards were lower Friday with weakness NYMEX gas futures. August NYMEX gas futures eased 3.2 cents to about \$4.409/MMBtu. In the Northwest, Mid-Columbia on-peak July fell 80 cents to about \$45.75/MWh on the InterContinentalExchange at about 2:30 p.m. EDT. Mid-C off-peak July lost 90 cents to about \$25.50/MWh. Mid-C on-peak August gave up about \$1 to about \$50.75/MWh and on-peak third quarter decreased by about \$1.25 to about \$47.50/MWh. In California, SP15 on-peak July financial terms gave up 70 cents to about \$56.25/MWh. SP15 on-peak August gave up 55 cents to about \$58.25/MWh and on-peak Q3 lost 10 cents to about \$57.50/MWh. NP15 on-peak July slipped 35 cents to about \$56.25/MWh.

Day-ahead markets for delivery Jun 30 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	46.83	16.53	46.00-49.00	19	600	40.74
Mid-C	37.54	10.57	35.75-40.00	76	1,950	34.35
Palo Verde	47.00	1.50	47.00-47.00	N.A.	N.A.	45.31
Mead	50.00	2.75	50.00-50.00	N.A.	N.A.	48.01
Mona	44.00	5.00	44.00-44.00	N.A.	N.A.	43.39
Four Corners	47.00	3.00	47.00-47.00	N.A.	N.A.	46.37
NP15	56.75	9.75	56.75-56.75	N.A.	N.A.	50.75
SP15	54.75	7.75	54.75-54.75	N.A.	N.A.	50.90
Off-Peak						
COB	17.57	8.30	15.00-20.00	16	550	19.13
Mid-C	6.98	5.17	3.00-15.00	90	2,525	10.97
Palo Verde	37.50	7.25	37.50-37.50	N.A.	N.A.	33.58
Mead	35.50	3.50	35.50-35.50	N.A.	N.A.	35.03
Mona	28.00	8.00	28.00-28.00	N.A.	N.A.	26.14
Four Corners	33.00	5.50	33.00-33.00	N.A.	N.A.	30.66
NP15	43.00	6.75	43.00-43.00	N.A.	N.A.	39.33
SP15	42.50	6.50	42.50-42.50	N.A.	N.A.	38.34

West off-peak includes all day Sunday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month (off-peak)	06/25	11.00-12.00

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Desert Star/SDG&E	495	g	Calif.	PMO	Unk	05/08/14
Hyatt-Thermalito/CDWR	933	h	Calif.	PMO	Unk	06/25/14
La Paloma-4/Rockland	260	g	Calif.	PMO	Unk	06/26/14
Richmond/Chevron	114	g	Calif.	PMO	Unk	05/26/14

WEST POWER MARKETS

West dailies up; terms mixed

West dailies were higher Wednesday with firm demand and warm weather in the outlook. Terms were mixed.

In California, SP15 day-ahead on-peak futures gained \$2 to about \$55.50/MWh for Thursday delivery on the InterContinentalExchange. SP15 day-ahead off-peak added \$1 to about \$38.50/MWh for Thursday delivery. NP15 day-ahead on-peak futures advanced 50 cents to about \$55.50/MWh on ICE. Spot natural gas in the California was flat to lower with PG&E Citygate holding at about \$4.47/MMBtu while Social Citygate dipped 2 cents to about \$4.46/MMBtu.

The California Independent System Operator projected peak demand on Wednesday at about 43,182 MW; 43,430 MW for Thursday; 42,672 MW for Friday; and falling to 38,198 MW for Saturday. High temperatures in California are forecast to be in the low 70s to 100 with lows going to the upper 50s to upper 60s. In the Southwest, Palo Verde day-ahead on-peak jumped \$5 to about \$47.75/MWh and off-peak rose \$1.50 to about \$32.50/MWh. High temperatures in Phoenix are predicted to be steady at about 107 for Thursday with lows in the upper 80s.

In the Northwest, Mid-Columbia day-ahead on-peak gained \$1.75 to about \$47.50/MWh. Mid-C day-ahead off-peak slipped 50 cents to about \$27.50/MWh. High temperatures in the Pacific Northwest on Thursday were expected to hold in the low to mid-80s with lows in the low 60s.

Western US forwards were mixed Wednesday with NYMEX gas future moving down. September NYMEX gas futures were down 4.4 cents to about \$3.786/MMBtu. In the Northwest, Mid-Columbia on-peak August added 65 cents to about \$43.25/MWh on the InterContinentalExchange at about 2:30 p.m. EDT. Mid-C off-peak August stayed at about \$30.75/MWh. Mid-C on-peak September added 30 cents to about \$41.50/MWh and on-peak fourth quarter was steady at about \$41/MWh. In California, SP15 on-peak August financial terms slipped 10 cents to about \$52.75/MWh. SP15 on-peak September rose 30 cents to about \$51.75/MWh and on-peak Q4 dipped 50 cents to about \$46/MWh. NP15 on-peak August was up 15 cents to about \$52/MWh. Palo Verde on-peak August was off 70 cents to about \$44/MWh.

Day-ahead markets for delivery Jul 31(\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	51.60	1.55	51.50-52.50	9	250	44.92
Mid-C	47.71	1.89	46.25-50.00	71	2,100	39.38
Palo Verde	47.50	4.83	46.75-47.75	25	725	45.73
Mead	49.00	4.00	49.00-49.00	N.A.	N.A.	47.54
Mona	55.00	3.00	55.00-55.00	N.A.	N.A.	51.50
Four Corners	49.50	5.50	49.50-49.50	N.A.	N.A.	47.97
NP15	55.25	0.25	55.25-55.25	N.A.	N.A.	52.38
SP15	55.50	1.75	55.50-55.50	N.A.	N.A.	53.18
Off-Peak						
COB	30.61	-0.07	29.50-32.00	17	675	30.13
Mid-C	27.59	-0.65	27.25-29.00	51	1,300	24.79
Palo Verde	32.50	1.50	32.50-32.50	N.A.	N.A.	33.48
Mead	34.25	1.25	34.25-34.25	N.A.	N.A.	34.95
Mona	30.50	1.00	30.50-30.50	N.A.	N.A.	31.87
Four Corners	31.00	6.00	31.00-31.00	N.A.	N.A.	33.26
NP15	39.00	1.00	39.00-39.00	N.A.	N.A.	39.65
SP15	38.50	1.00	38.50-38.50	N.A.	N.A.	39.65

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month (off-peak)	07/23	29.50-30.25

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
No data available.						

WEST POWER MARKETS

Dailies mixed on altered schedule; terms gain

West dailies were mixed Thursday, with deals trading for the holiday weekend and end-of-the-month scheduling. Term prices increased, as did gas futures.

In California, SP15 day-ahead on-peak futures lost about \$5.50 going to about \$47.75/MWh for Saturday delivery on the InterContinentalExchange. SP15 day-ahead off-peak on ICE gained \$2.75 to about \$40.50/MWh for Saturday and all-day Sunday delivery. NP15 on-peak day-ahead futures on ICE dropped \$5.75 to about \$46/MWh. NP15 off-peak day-ahead on ICE moved up \$4 to about \$41.50/MWh.

Spot natural gas in the California was lower with PG&E Citygate slipping 1 cent to about \$4.55/MMBtu and Socal Citygate losing 8 cents to about \$4.38/MMBtu.

The California Independent System Operator forecast peak demand for Thursday at about 41,890 MW, about 589 MW higher than the actual peak on Wednesday. Friday's peak is expected to be near 40,141 MW; Saturday at about 37,265 MW; and dipping to about 35,851 MW on Sunday.

High temperatures in California over the weekend are expected steady in the low 70s to low 90s with lows in the mid-50s to mid-60s.

In the Southwest, Palo Verde day-ahead on-peak on ICE shed 25 cents to about \$41.50/MWh, while off-peak on ICE added \$3.25 to about \$34.75/MWh for the two-day package.

High temperatures in Phoenix over the weekend are predicted to be near 104 with lows in the mid-80s.

In the Northwest, Mid-Columbia day-ahead on-peak on ICE gave up about \$8.75 to about \$30/MWh with mild weather over the weekend. Mid-C day-ahead off-peak on ICE shed \$2 to about \$29.75/MWh.

High temperatures in the Pacific Northwest on the weekend are predicted to be in the mid-60s to low 70s with lows in the low to upper 50s.

West markets will continue to trade on an altered schedule Friday, with on-peak packages for Tuesday delivery and off-peak packages for all-day Monday and Tuesday delivery.

Western forwards were mostly higher Thursday as October NYMEX gas futures gained 4.1 cents to about \$4.044/MMBtu. Mid-

Day-ahead markets for delivery Aug 30 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	34.45	-7.60	33.00-36.50	8	275	44.27
Mid-C	29.93	-8.77	29.50-30.50	55	1,450	41.99
Palo Verde	41.36	-0.33	41.00-41.75	14	400	41.51
Mead	42.00	-1.75	42.00-42.00	N.A.	N.A.	43.17
Mona	39.00	-5.00	39.00-39.00	N.A.	N.A.	46.32
Four Corners	39.00	4.00	39.00-39.00	N.A.	N.A.	41.94
NP15	46.00	-5.75	46.00-46.00	N.A.	N.A.	51.13
SP15	47.75	-5.50	47.75-47.75	N.A.	N.A.	50.47
Off-Peak						
COB	32.75	-0.12	32.00-35.50	10	325	34.36
Mid-C	29.74	-1.91	29.00-30.00	41	1,100	32.06
Palo Verde	34.86	3.36	34.25-35.00	8	275	32.81
Mead	34.00	1.25	34.00-34.00	N.A.	N.A.	33.76
Mona	28.50	1.50	28.50-28.50	N.A.	N.A.	30.06
Four Corners	29.00	1.50	29.00-29.00	N.A.	N.A.	30.35
NP15	41.25	3.75	41.25-41.25	N.A.	N.A.	40.28
SP15	40.50	2.75	40.50-40.50	N.A.	N.A.	39.65

West off-peak includes all day Sunday

Near-term markets (\$/MWh)

Contract	Transacted	Deal
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Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Electra/P&G&E	102	h	Calif.	PMO	Unk	08/27/14
Pittsburg-5/NRG	312	g	Calif.	MO	Unk	08/27/14

Columbia on-peak September was steady at about \$39.50/MWh on the InterContinentalExchange at about 2:30 p.m. EDT. Mid-C off-peak September edged up 20 cents to about \$32.75/MWh. Mid-C on-peak October increased 25 cents to about \$37/MWh.

In California, SP15 on-peak September financial terms rose 25 cents to about \$50.50/MWh. SP15 on-peak October added 25 cents to about \$48/MWh. NP15 on-peak September slipped 10 cents to about \$50.50/MWh.

Palo Verde on-peak September moved up \$2.50 to about \$41.50/MWh.

WEST POWER MARKETS

Dailies and forwards follow gas higher

West dailies were mostly higher Monday, with demand expected to edge up Tuesday and higher spot natural gas prices. Forward prices in the region also increased, as did gas futures.

In California, SP15 day-ahead on-peak futures gained 75 cents to about \$49.25/MWh for Tuesday delivery on the InterContinentalExchange. SP15 day-ahead off-peak on ICE fell \$4 to about \$37/MWh for Tuesday delivery. SP15 on-peak balance-of-the-week packages on ICE were at about \$54.25/MWh, indicating prices could firm later in the week. NP15 on-peak day-ahead futures on ICE was off \$1 to about \$47/MWh. NP15 off-peak day-ahead futures on ICE fell \$3.75 to about \$37.75/MWh. NP15 on-peak bal-week on ICE were at about \$50.50/MWh.

Spot natural gas in the California was higher with PG&E Citygate gaining 11 cents to about \$4.55/MMBtu and Social Citygate jumping 21 cents to about \$4.40/MMBtu.

The California Independent System Operator forecast peak demand on Monday near 31,887 MW, a rise of about 3,674 MW from Sunday's actual peak. Tuesday's peak was expected to be near 33,172 MW, 32,962 MW for Wednesday and 34,631 MW for Thursday.

High temperatures in California load centers on Tuesday are forecast to be near the low 70s to low 80s.

In the Southwest, Palo Verde day-ahead on-peak on ICE rose \$1.25 to about \$41/MWh, and off-peak on ICE fell \$3.75 to about \$30.25/MWh.

High temperatures in Phoenix are forecast to be in the low 90s for most of the week.

In the Northwest, Mid-Columbia day-ahead on-peak on ICE was down \$1 to about \$33/MWh. Mid-C day-ahead off-peak on ICE gave up \$4.50 dropping down to about \$27.25/MWh.

High temperatures in the Pacific Northwest this week are expected to be in the low to upper 60s.

Western forwards on the InterContinentalExchange jumped Monday as November NYMEX gas futures gained 12.5 cents to about \$4.154/MMBtu.

In California, SP15 on-peak October financial terms moved up \$1 to about \$50.25/MWh on ICE at about 2:30 p.m. EDT. SP15 on-peak November on ICE rose \$1.45 to about \$48/MWh and on-peak December advanced \$1 to about \$47.25/MWh. NP15 on-peak October on ICE added \$1.25 to about \$49/MWh.

In the Northwest, Mid-Columbia on-peak October on ICE edged up 40 cents to about \$37/MWh. Mid-C on-peak November was up 65 cents to about \$38.75/MWh and on-peak December on ICE gained 85 cents to about \$44.50/MWh.

In the Southwest, Palo Verde on-peak October was up \$1.15 to about \$40/MWh.

Day-ahead markets for delivery Sep 30 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	36.25	-2.66	35.75-36.50	15	375	44.42
Mid-C	32.87	-1.07	32.50-33.50	103	2,600	39.83
Palo Verde	41.00	1.25	41.00-41.00	N.A.	N.A.	40.84
Mead	42.00	0.75	42.00-42.00	N.A.	N.A.	42.62
Mona	40.00	0.00	40.00-40.00	N.A.	N.A.	39.79
Four Corners	41.75	1.25	41.75-41.75	N.A.	N.A.	39.46
NP15	47.50	-0.50	47.50-47.50	N.A.	N.A.	50.19
SP15	48.75	0.25	48.75-48.75	N.A.	N.A.	51.49
Off-Peak						
COB	28.21	-6.29	28.00-28.50	14	350	35.00
Mid-C	27.33	-4.44	26.00-28.50	35	875	33.35
Palo Verde	30.50	-3.50	30.50-30.50	N.A.	N.A.	32.74
Mead	32.75	-2.50	32.75-32.75	N.A.	N.A.	34.54
Mona	29.00	-3.00	29.00-29.00	N.A.	N.A.	28.13
Four Corners	29.00	-2.25	29.00-29.00	N.A.	N.A.	27.72
NP15	37.75	-3.75	37.75-37.75	N.A.	N.A.	39.58
SP15	37.25	-3.75	37.25-37.25	N.A.	N.A.	39.33

Near-term markets (\$/MWh)

Contract	Transacted	Deal
No data available.		

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Coolwater-3/NRG	245	g	Calif.	MO	Unk	09/07/14
Coolwater-4/NRG	246	g	Calif.	MO	Unk	09/07/14
Helms-1/PG&E	407	h	Calif.	PMO	Unk	09/28/14
Helms-2/PG&E	407	h	Calif.	PMO	Unk	09/28/14
Helms-3/PG&E	404	h	Calif.	PMO	Unk	09/28/14
Ivanpah-2/BrightSource	133	s	Calif.	MO	Unk	09/25/14
Ivanpah-3/BrightSource	133	s	Calif.	PMO	Unk	09/25/14
LaPaloma-4/LaPaGenco	260	g	Calif.	PMO	Unk	09/28/14
LaRosita/Intergen	322	g	Mex.	PMO	Unk	09/16/14
Mojave/Abengoa	250	s	Calif.	MO	Unk	09/21/14
Pine Flat/KRCD	210	h	Calif.	PMO	Unk	09/03/14

WEST POWER MARKETS

Dailies dip while forwards rise

West dailies dipped Wednesday as packages traded for a Thursday-Friday period to accommodate end-of-the-month scheduling.

In California, SP15 day-ahead on-peak futures fell \$3 to about \$48.50/MWh for Thursday-Friday delivery on the IntercontinentalExchange. SP15 day-ahead off-peak on ICE was off \$1.50 to about \$36.50/MWh for Thursday-Friday delivery. NP15 on-peak day-ahead futures on ICE gave up \$3.50 to about \$46/MWh, and off-peak shed 75 cents to about \$37.50/MWh.

Spot natural gas in the California made some gains with PG&E Citygate adding 10 cents to about \$4.15/MMBtu and Social Citygate moving up 8 cents to about \$3.89/MMBtu.

The California Independent System Operator expected peak demand on Wednesday at about 30,986 MW, about 490 MW higher than Tuesday's actual peak. Thursday's peak is forecast at about 30,301 MW, Friday at about 27,930 MW, and 26,511 MW for Saturday.

High temperatures in Sacramento at the end of the week are forecast to be in the upper 70s Thursday and falling into the upper 60s Friday.

In the Southwest, Palo Verde day-ahead on-peak on ICE gave up \$1.50 to about \$37/MWh, and Palo Verde off-peak on ICE dipped \$1 to about \$29.50/MWh.

High temperatures in Phoenix for later in the week are forecast to be in the low 90s

In the Northwest, Mid-Columbia day-ahead on-peak on ICE lost \$2.50 going to about \$27.25/MWh. Mid-C day-ahead off-peak on ICE fell \$2 to about \$24.75/MWh.

High temperatures in Portland, Oregon, Thursday are expected to be in the low 60s and lower Friday in the upper 50s.

Western US forward prices moved up Wednesday on the IntercontinentalExchange with NYMEX gas futures seeing some strength. November NYMEX gas futures rose 7.9 cents to about \$3.728/MMBtu.

In California, SP15 on-peak November financial added 85 cents going to about \$45/MWh on ICE at about 2:30 p.m. EDT. SP15 on-peak December gained 80 cent moving to about \$44.25/MWh and on-peak first quarter 2015 packages firmed by about 70 cents going to about \$43.75/MWh on ICE.

In the Northwest, Mid-Columbia on-peak November edged up 50 cents to about \$32.25/MWh on ICE. Mid-C on-peak December added 50 cents to about \$39/MWh and Mid-C on-peak Q1 rose 80 cents to about \$34.50/MWh. Mid-C off-peak November jumped \$1 to about \$28/MWh.

In the Southwest, Palo Verde on-peak November advanced 55 cents going up to about \$35.50/MWh.

Day-ahead markets for delivery Oct 30-31 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	30.67	-2.59	29.00-32.50	24	750	38.14
Mid-C	27.21	-2.41	26.25-29.00	74	1,850	32.90
Palo Verde	36.94	-1.56	36.75-37.00	7	225	38.46
Mead	37.75	-2.00	37.75-37.75	N.A.	N.A.	41.31
Mona	33.00	1.50	33.00-33.00	N.A.	N.A.	36.52
Four Corners	37.50	1.00	37.50-37.50	N.A.	N.A.	39.63
NP15	46.50	-3.00	46.50-46.50	N.A.	N.A.	48.86
SP15	45.50	-2.75	45.50-45.50	N.A.	N.A.	49.06
Off-Peak						
COB	27.11	-0.66	26.00-29.00	10	275	31.49
Mid-C	24.77	-1.74	23.50-26.50	25	625	29.35
Palo Verde	29.50	-1.00	29.50-29.50	N.A.	N.A.	31.44
Mead	30.50	-1.25	30.50-30.50	N.A.	N.A.	33.42
Mona	27.00	1.50	27.00-27.00	N.A.	N.A.	28.22
Four Corners	27.00	0.25	27.00-27.00	N.A.	N.A.	29.83
NP15	37.00	-1.25	37.00-37.00	N.A.	N.A.	39.03
SP15	36.25	-1.75	36.25-36.25	N.A.	N.A.	38.82

Near-term markets (\$/MWh)

Contract	Transacted	Deal
Mid-C		
Bal-month	10/24	31.75-32.75

Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Ace/Exelon	118	c	Calif.	MO	Unk	10/01/14
Big Creek/SCE	820	h	Calif.	PMO	Unk	10/01/14
Colgate-1/YCWA	177	h	Calif.	PMO	Unk	10/27/14
Coolwater-3/NRG	245	g	Calif.	MO	Unk	09/07/14
Coolwater-4/NRG	246	g	Calif.	MO	Unk	09/07/14
Diablo Canyon-2/PG&E	1150	n	Calif.	PMO	Unk	10/06/14
Helms-1/PG&E	407	h	Calif.	PMO	Unk	09/28/14
Helms-2/PG&E	407	h	Calif.	PMO	Unk	09/28/14
Helms-3/PG&E	404	h	Calif.	PMO	Unk	09/28/14
Kerckhoff-1/PG&E	154	h	Calif.	PMO	Unk	10/06/14
LaPaloma-4/LaPaGenco	260	g	Calif.	PMO	Unk	10/28/14
LaRosita/Intergen	322	g	Mex.	PMO	Unk	09/16/14
Middle Fork/PCWA	218	h	Calif.	PMO	Unk	10/01/04
Mojave/Abengoa	250	s	Calif.	MO	Unk	09/21/14
Moss Landing-1/Dynegy	510	g	Calif.	PMO	Unk	10/26/14
Mountainview-3/SCE	525	g	Calif.	PMO	Unk	10/26/14
Palo Verde-1/APS	1428	n	Ariz.	PMO	mid-Nov	10/13/14
Pine Flat/KRCD	210	h	Calif.	PMO	Unk	09/03/14
Shiloh-IV/EDF	100	w	Calif.	PMO	Unk	10/27/14

WEST POWER MARKETS

Dailies, forwards mixed heading into weekend

West dailies were mixed Tuesday as packages traded for the weekend.

In California, SP15 day-ahead on-peak dropped \$3.25 to about \$44.25/MWh on the IntercontinentalExchange for Friday and Saturday delivery. SP15 day-ahead off-peak edged up 50 cents to about \$40/MWh on ICE for Friday, Saturday and all-day Sunday delivery. NP15 day-ahead on-peak dropped \$3 to about \$44/MWh. Spot natural gas in the California moved down with PG&E Citygate losing 4 cents to about \$4.47/MMBtu and Socal Citygate was off 5 cents to about \$4.43/MMBtu.

The California Independent System Operator forecast peak demand for Tuesday at about 29,896 MW, about 204 MW lower than Monday's actual peak. Wednesday's peak is forecast at about 30,523 MW, Thursday at about 25,083 MW, 26,995 MW for Friday, and 27,250 MW for Saturday.

High temperatures in Sacramento are forecast in the 60s through the weekend.

In the Southwest, Palo Verde on-peak eased \$1.50 to about \$35.75/MWh and off-peak was nearly flat at about \$32.50/MWh. Phoenix temperatures are projected to in the upper 70s to 80s heading into the weekend.

In the Northwest, Mid-Columbia day-ahead on-peak gained \$1.75 to about \$30.75/MWh and off-peak added \$4 to about \$31.25/MWh. Highs for Portland, Oregon are forecast in the low to mid-50s heading into the weekend. Trading on Wednesday will be done for Monday delivery.

Western forwards on the IntercontinentalExchange were mixed Tuesday with volatility in NYMEX gas futures. December NYMEX gas futures gained 13.1 cents to about \$4.282/MMBtu after being down earlier in the day.

In California, SP15 on-peak December financial futures gained 85 cents to around \$49/MWh on ICE at about 2:30 p.m. EST. SP15 on-peak January moved up 90 cents to about \$48.75/MWh. SP15 on-peak first quarter 2015 packages rose 75 cents to around \$48.25/MWh. NP15 on-peak December increased by 80 cents to about \$49.25/MWh.

In the Northwest, Mid-Columbia on-peak December stayed at about \$40.75/MWh. Mid-C on-peak January slipped 25

Day-ahead markets for delivery Nov 28-29 (\$/MWh)

West	Index	Change	Range	Deals	Volume	Avg \$/Mo
On-Peak						
COB	43.77	2.46	43.00-44.00	10	275	44.69
Mid-C	30.87	1.82	29.00-33.00	108	3,000	33.99
Palo Verde	35.87	-1.50	34.50-36.50	18	575	38.63
Mead	37.25	-2.75	37.25-37.25	N.A.	N.A.	40.29
Mona	31.50	-5.50	31.50-31.50	N.A.	N.A.	36.52
Four Corners	33.75	4.00	33.75-33.75	N.A.	N.A.	37.91
NP15	44.00	3.00	44.00-44.00	N.A.	N.A.	49.31
SP15	44.25	-3.25	44.25-44.25	N.A.	N.A.	49.28
Off-Peak						
COB	36.77	6.47	36.00-38.00	10	275	33.74
Mid-C	31.56	4.37	28.50-34.00	63	1,850	29.34
Palo Verde	32.25	0.00	32.25-32.25	N.A.	N.A.	33.50
Mead	34.00	-1.00	34.00-34.00	N.A.	N.A.	34.76
Mona	27.75	-2.50	27.75-27.75	N.A.	N.A.	29.13
Four Corners	29.50	-2.25	29.50-29.50	N.A.	N.A.	31.45
NP15	39.25	3.00	39.25-39.25	N.A.	N.A.	39.03
SP15	40.00	0.50	40.00-40.00	N.A.	N.A.	39.24

West off-peak includes all day Sunday

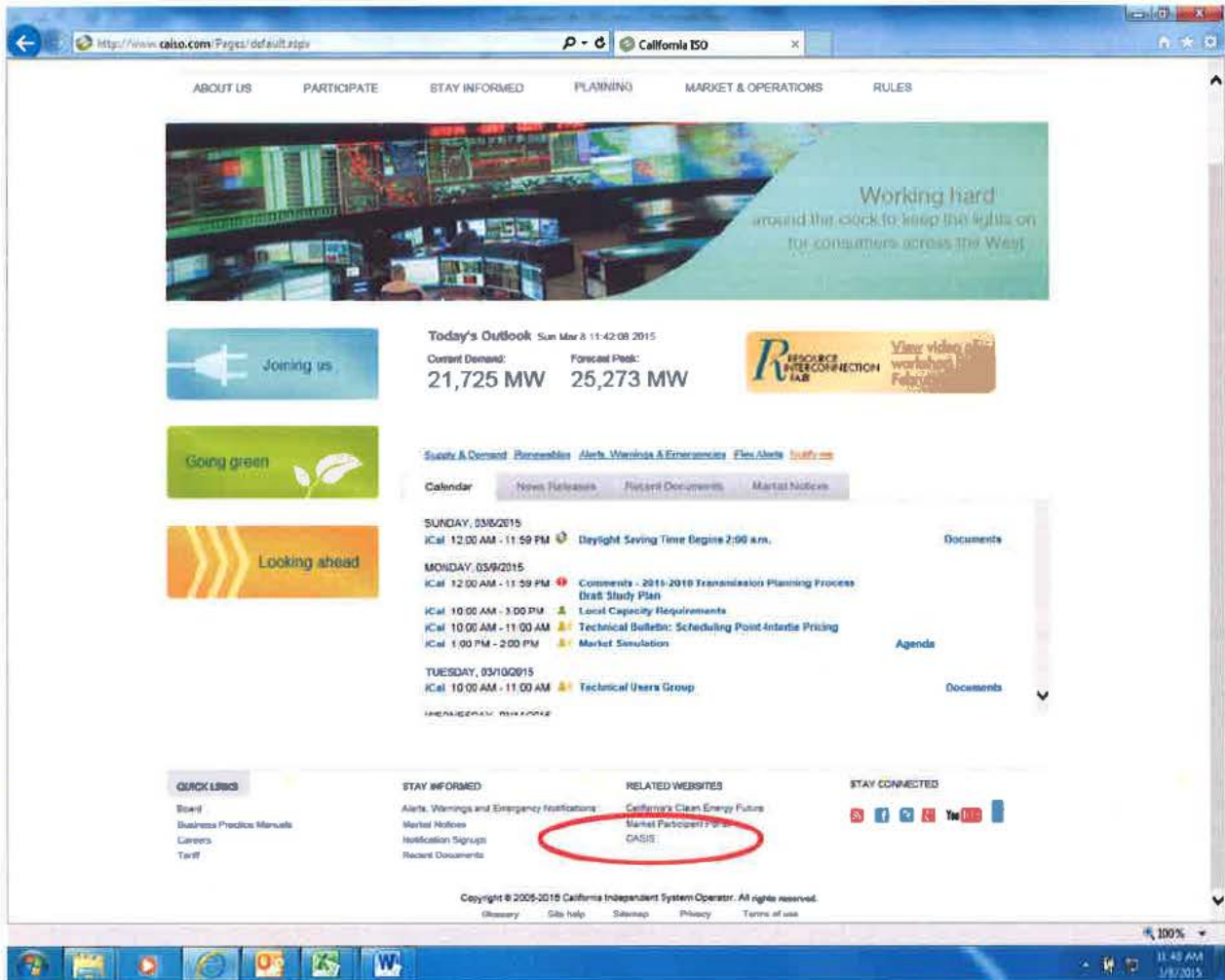
Generation unit outage report

Plant/Operator	Cap	Fuel	State	Status	Return	Shut
West						
Ace/Exelon	118	c	Calif.	MO	Unk	10/01/14
Alamitos-2/AES	175	g	Calif.	PMO	Unk	11/04/14
Colgate-1/YCWA	177	h	Calif.	PMO	Unk	10/27/14
Coolwater-3/NRG	245	g	Calif.	MO	Unk	09/07/14
Coolwater-4/NRG	246	g	Calif.	MO	Unk	09/07/14
Eastwood/SCE	200	h	Calif.	PMO	Unk	11/09/14
Encina-3/NRG	110	g	Calif.	PMO	Unk	11/23/14
Helms-1/PG&E	407	h	Calif.	PMO	Unk	09/28/14
Helms-2/PG&E	407	h	Calif.	PMO	Unk	09/28/14
Helms-3/PG&E	404	h	Calif.	PMO	Unk	09/28/14
Ivanpah-3/BrightSource	133	s	Calif.	MO	Unk	11/24/14
Kerckhoff-1/PG&E	154	h	Calif.	PMO	Unk	10/06/14
LaPaloma-4/LaPaGenco	260	g	Calif.	PMO	Unk	10/28/14
LaRosita-2/Intergen	322	g	Mex.	PMO	Unk	09/16/14
Otay Mesa/Calpine	604	g	Calif.	PMO	Unk	11/20/14
Pine Flat/KRCD	210	h	Calif.	PMO	Unk	09/03/14

cents to around \$38.25/MWh and on-peak Q1 added 30 cents to about \$36/MWh. Mid-C off-peak December added 25 cents going to around \$34.50/MWh.

In the Southwest, Palo Verde on-peak December slipped 50 cents to about \$40/MWh.

Platts ceased publishing an SP15 price survey effective 12/1/2014. Daily energy prices for SP15 are available at:



California Independent System Operator website

Select OASIS link at bottom of page

The screenshot shows the California ISO OASIS interface. A red oval highlights the report parameters in the top navigation bar, including 'Market: DAM', 'Group: SELECT_NODE', and 'Node: TH_SP15_GEN_OFFPEAK-APND'. Below this, the 'Locational Marginal Prices (LMP)' report is displayed as a table with columns for Market, Date, Node, LMP Type, and 24 hourly price points (HE1-HE24). The table contains multiple rows of data for different dates and market types (Congestion, Energy, Loss, LMP). At the bottom of the page, there are quick links, system help, and a footer with copyright information.

Market	Date	Node	LMP Type	HE1	HE2	HE3	HE4	HE5	HE6	HE7	HE8	HE9	HE10	HE11	HE12	HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20	HE21	HE22	HE23	HE24	
DAM	12/01/2014	TH_SP15_GEN_OFFPEAK-APND	Congestion	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
DAM	12/01/2014	TH_SP15_GEN_OFFPEAK-APND	Energy	40.90306	39.88549	38.10740	35.30015	33.78717	43.92846																			
DAM	12/01/2014	TH_SP15_GEN_OFFPEAK-APND	Loss	-8.86388	-9.77572	-8.88038	-8.88000	-8.79186	-8.88614																			
DAM	12/02/2014	TH_SP15_GEN_OFFPEAK-APND	LMP	37.55817	36.10406	35.16784	34.48547	36.55216	40.84573																			
DAM	12/02/2014	TH_SP15_GEN_OFFPEAK-APND	Congestion	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000																			
DAM	12/02/2014	TH_SP15_GEN_OFFPEAK-APND	Energy	36.38822	36.91821	36.01417	35.25156	36.88950	42.12090																			
DAM	12/02/2014	TH_SP15_GEN_OFFPEAK-APND	Loss	-8.83305	-8.81216	-8.84533	-8.78811	-8.83738	-1.17517																			
DAM	12/03/2014	TH_SP15_GEN_OFFPEAK-APND	LMP	35.36187	33.82479	32.34958	31.67170	33.18080	37.42199																			
DAM	12/03/2014	TH_SP15_GEN_OFFPEAK-APND	Congestion	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000																			
DAM	12/03/2014	TH_SP15_GEN_OFFPEAK-APND	Energy	36.12156	34.47288	32.98285	32.15401	33.82888	38.35425																			
DAM	12/03/2014	TH_SP15_GEN_OFFPEAK-APND	Loss	-8.74848	-8.64889	-8.83327	-8.68231	-8.64810	-8.73257																			
DAM	12/04/2014	TH_SP15_GEN_OFFPEAK-APND	LMP	34.58489	31.12523	30.28417	27.45519	30.57514	32.52320																			
DAM	12/04/2014	TH_SP15_GEN_OFFPEAK-APND	Congestion	0.95880	0.21880	0.00000	0.00000	0.00000	0.00000																			
DAM	12/04/2014	TH_SP15_GEN_OFFPEAK-APND	Energy	34.57984	31.84937	31.18884	28.2125	31.51427	33.46353																			
DAM	12/04/2014	TH_SP15_GEN_OFFPEAK-APND	Loss	-8.84403	-8.84274	-8.95447	-8.75008	-8.93813	-8.84033																			
DAM	12/05/2014	TH_SP15_GEN_OFFPEAK-APND	LMP	33.18532	33.03186	32.18084	30.57655	33.31187	37.26312																			
DAM	12/05/2014	TH_SP15_GEN_OFFPEAK-APND	Congestion	0.88880	1.22881	0.77714	0.49081	0.48827	0.88880																			
DAM	12/05/2014	TH_SP15_GEN_OFFPEAK-APND	Energy	33.18931	32.52736	32.16282	30.78653	33.54017	38.06243																			
DAM	12/05/2014	TH_SP15_GEN_OFFPEAK-APND	Loss	-8.81288	-8.75138	-8.77832	-8.81288	-8.72447	-8.78851																			

Report parameter are selected

Weekly Water Quality System Status

Wednesday, January 08, 2014

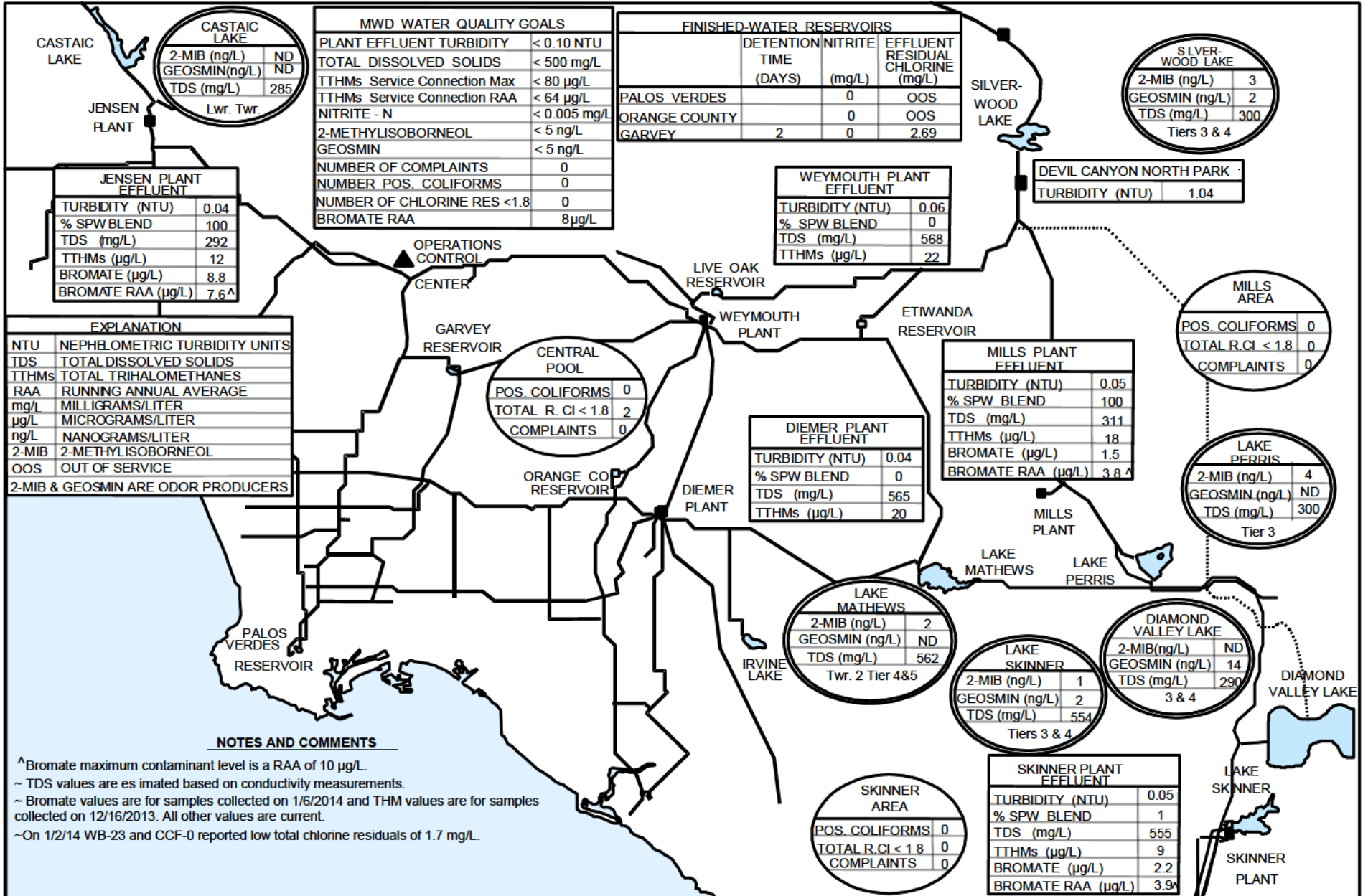
DTX-1128

Printed On: 1/10/2014 10:04:39 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, January 22, 2014

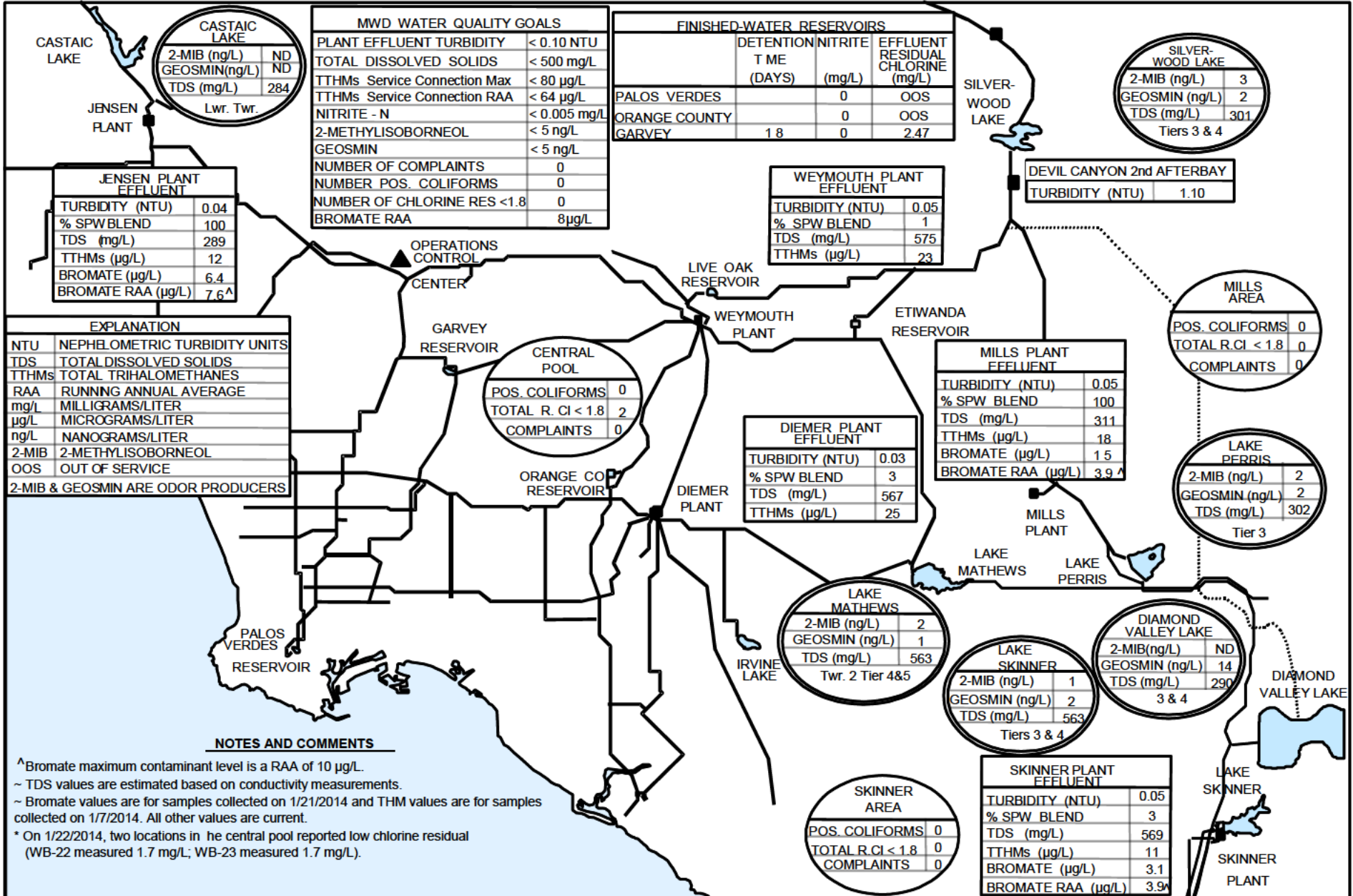
DTX-1128

Printed On: 1/24/2014 10:23:57 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, January 29, 2014

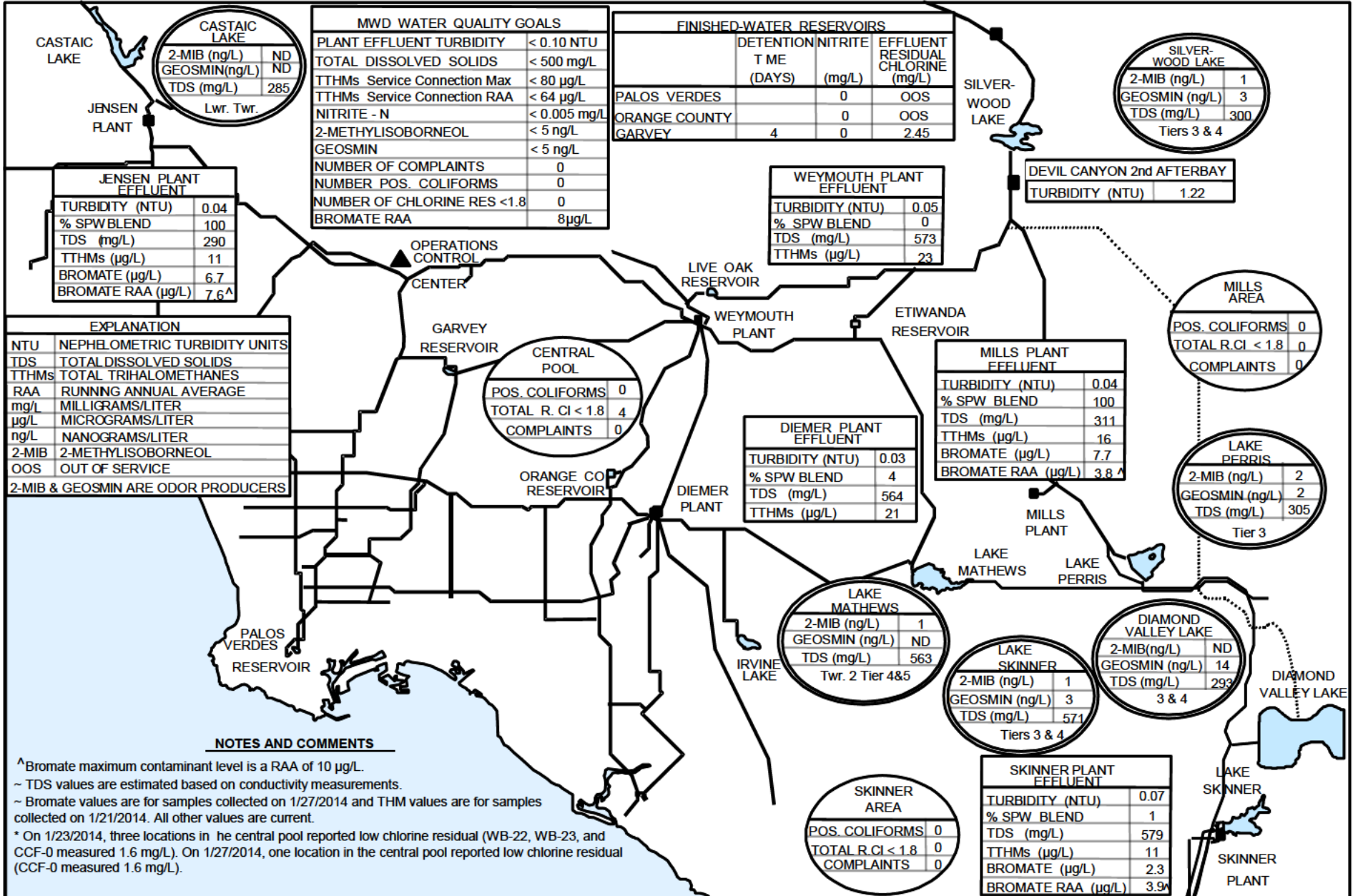
DTX-1128

Printed On: 1/29/2014 3:26:35 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, February 06, 2014

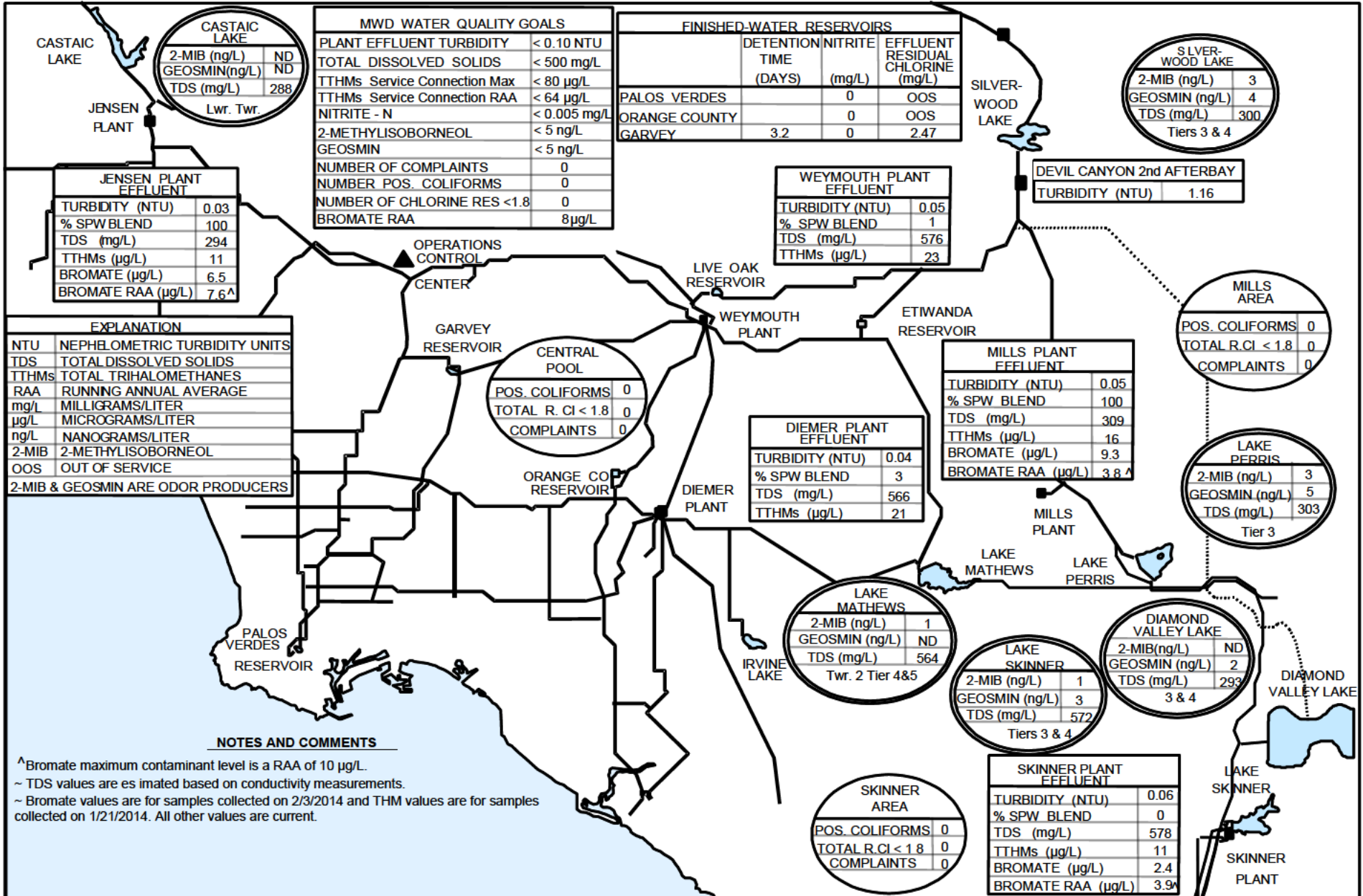
DTX-1128

Printed On: 2/5/2014 1:06:47 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, February 12, 2014

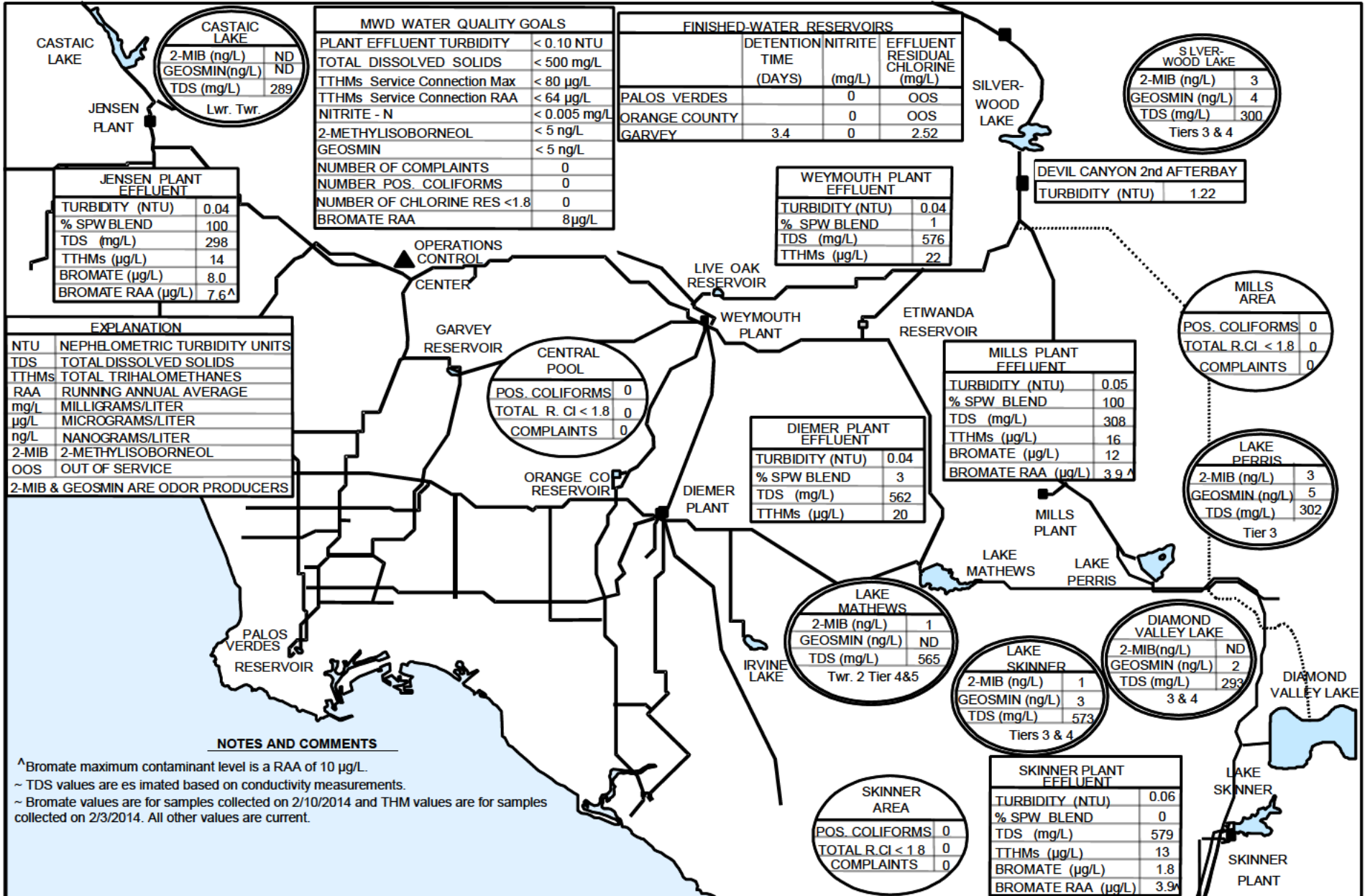
DTX-1128

Printed On: 2/12/2014 8:26:58 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, February 19, 2014

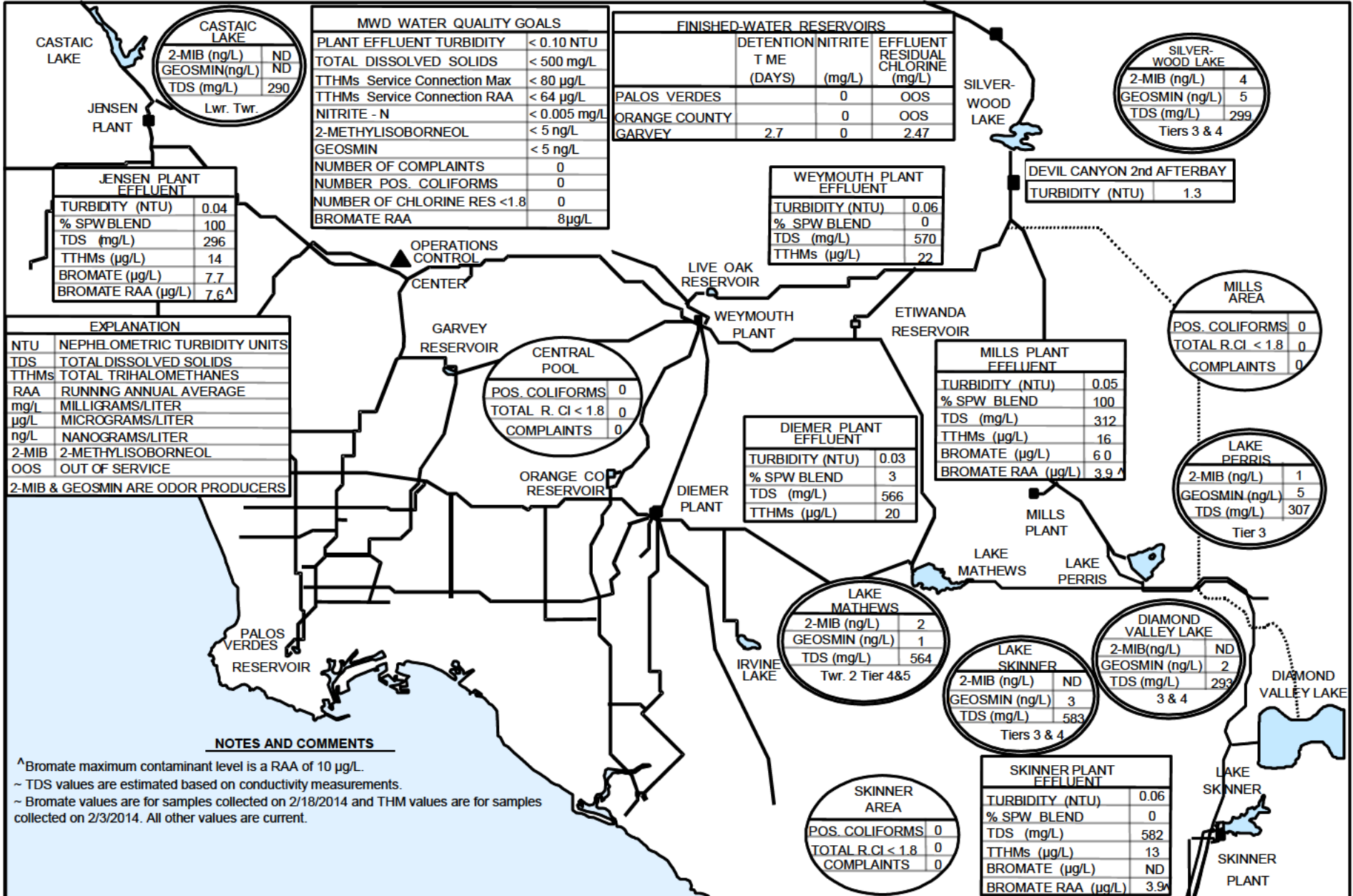
DTX-1128

Printed On: 2/21/2014 8:54:14 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



Weekly Water Quality System Status

Wednesday, February 26, 2014

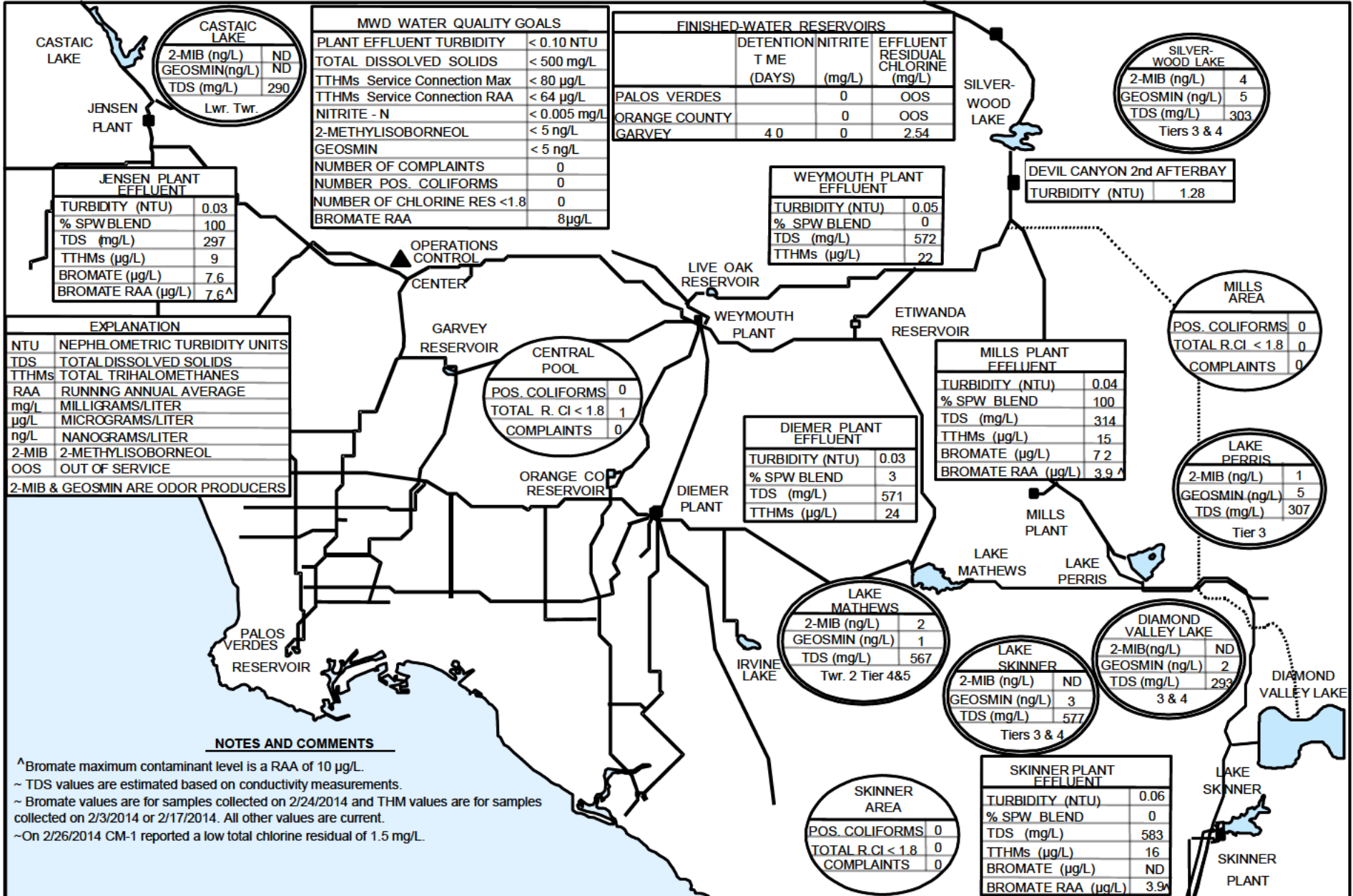
DTX-1128

Printed On: 2/26/2014 2:01:58 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, March 05, 2014

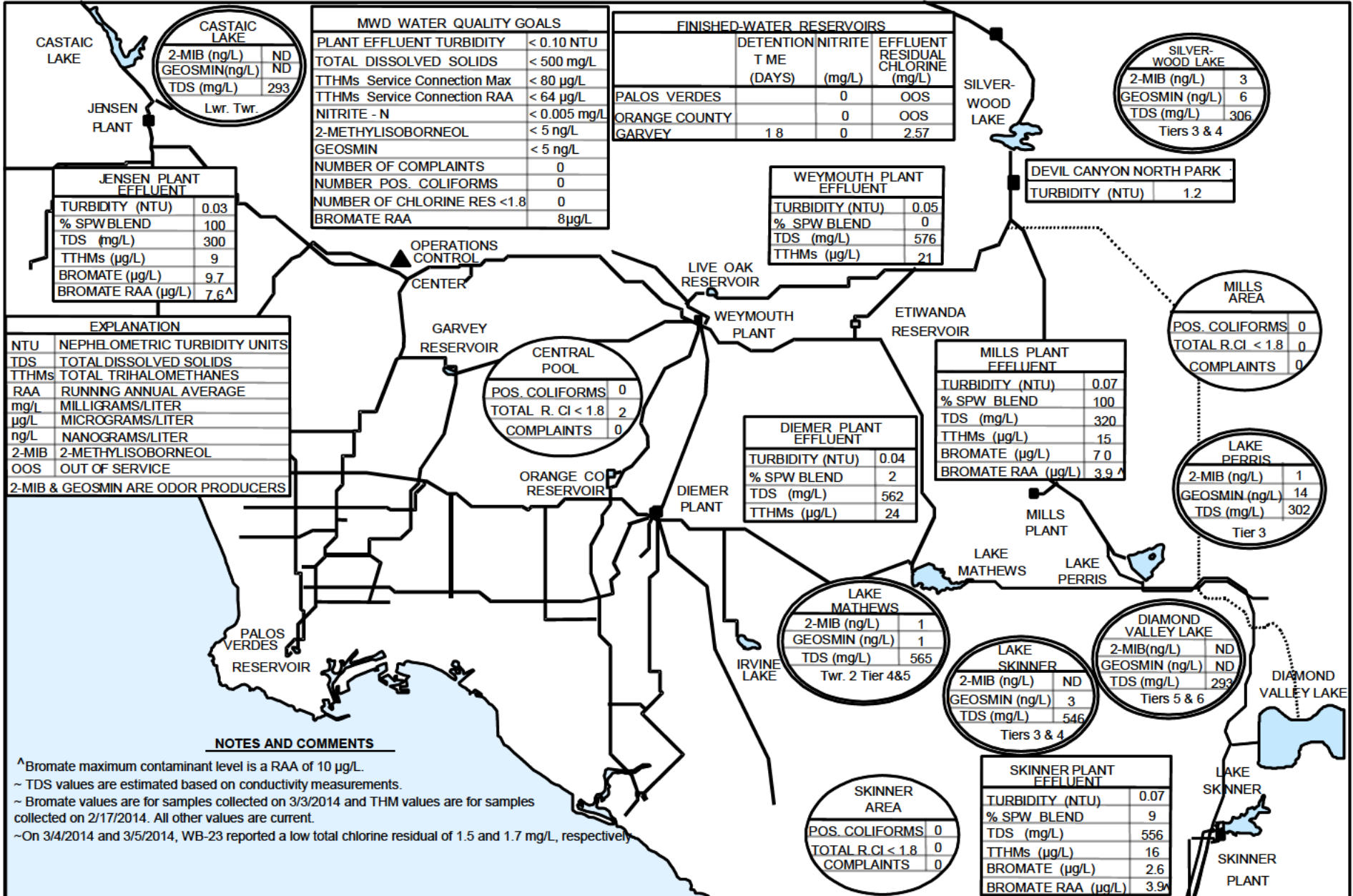
DTX-1128

Printed On: 3/5/2014 1:50:43 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, March 12, 2014

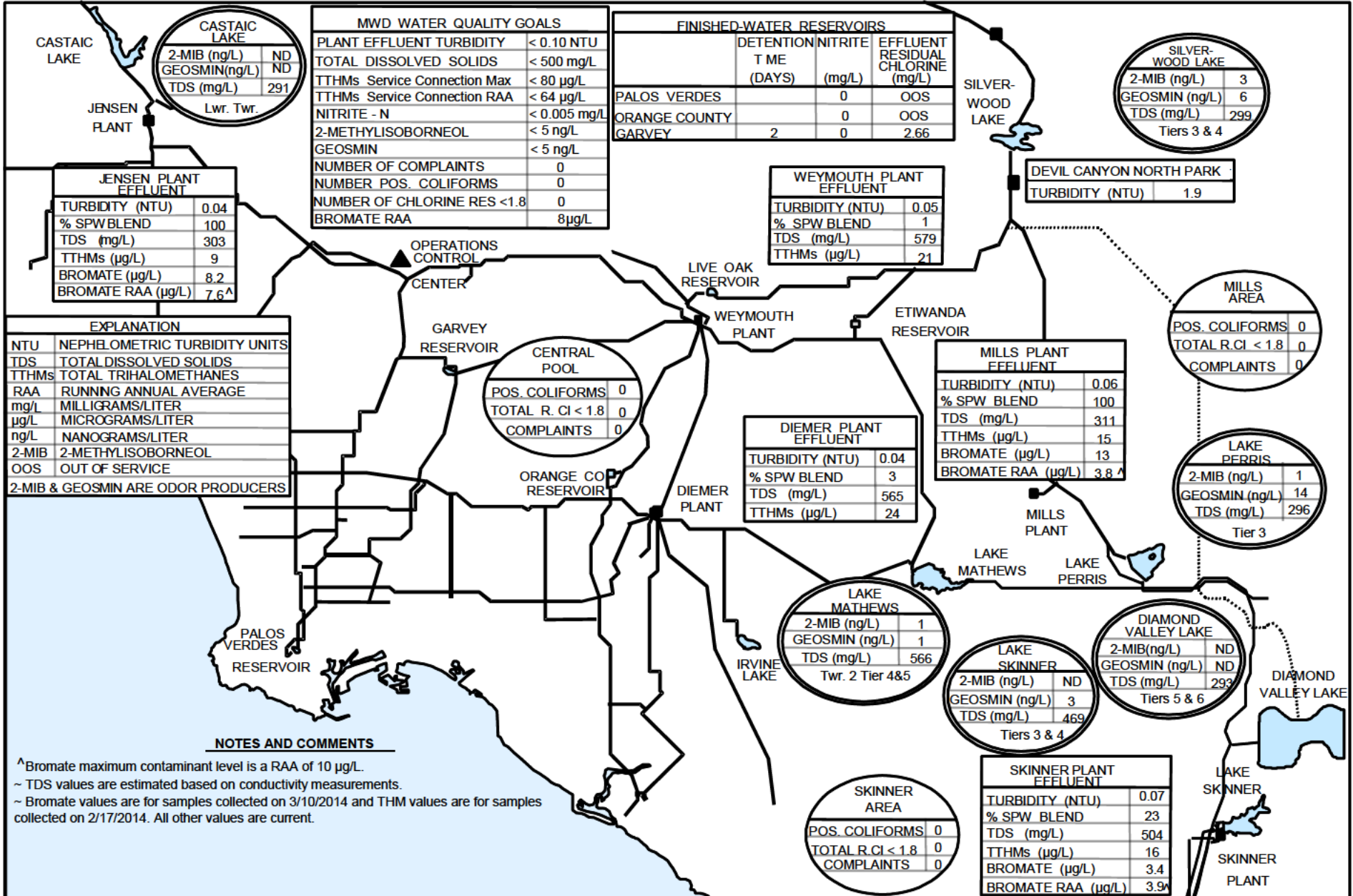
DTX-1128

Printed On: 3/12/2014 12:48:43 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, March 20, 2014

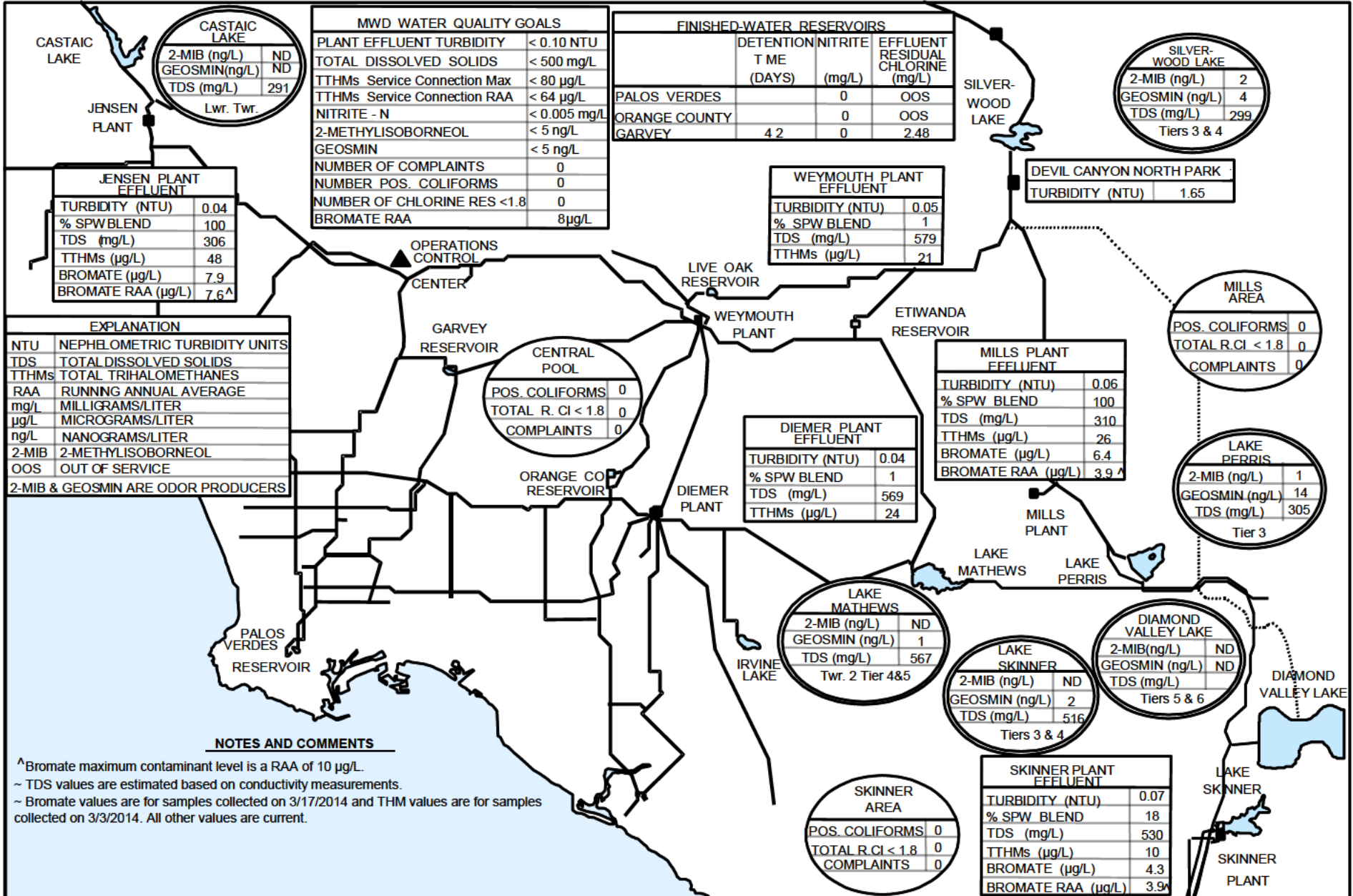
DTX-1128

Printed On: 3/20/2014 3:20:13 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, March 26, 2014

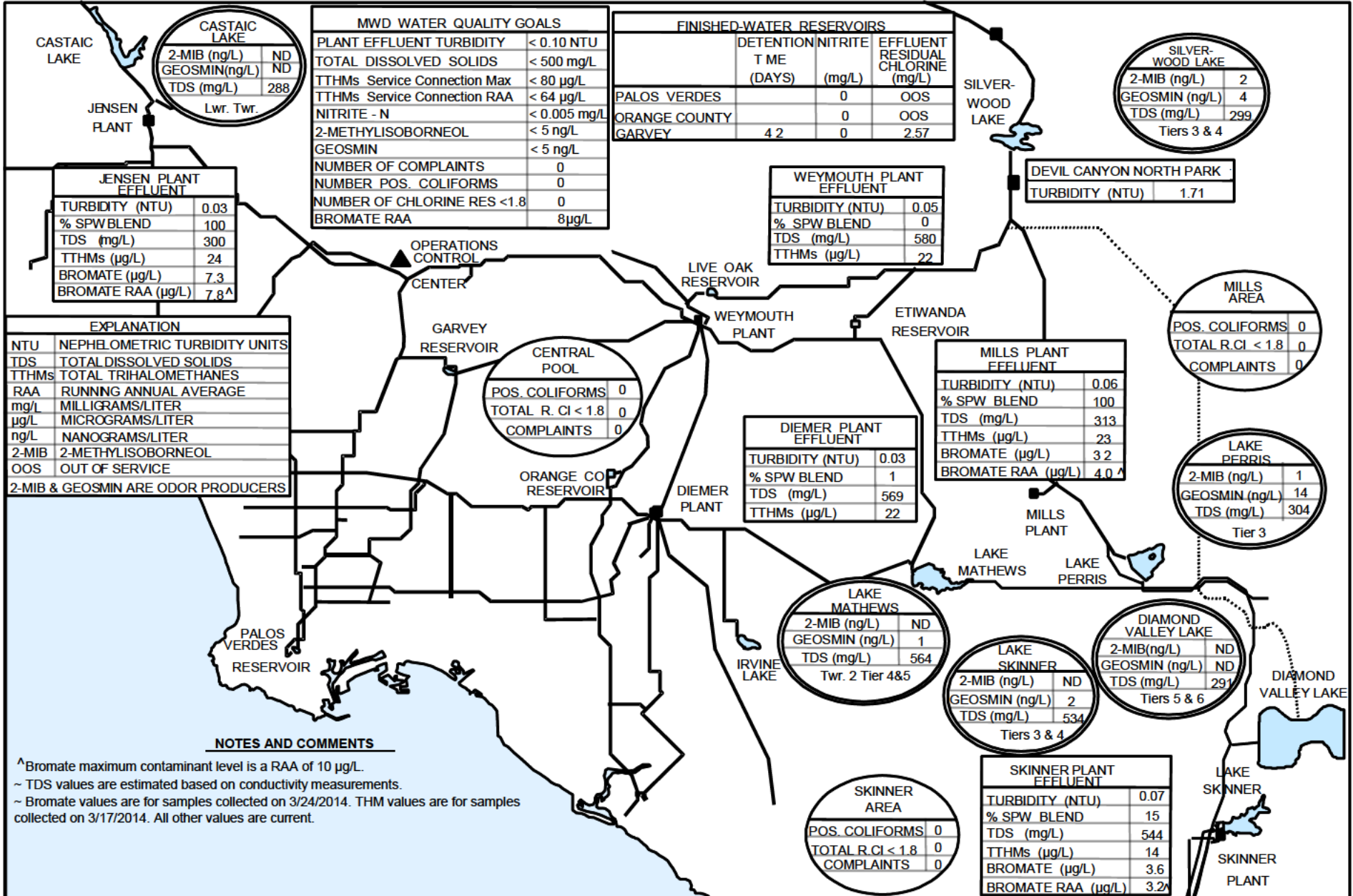
DTX-1128

Printed On: 3/28/2014 8:01:03 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, April 02, 2014

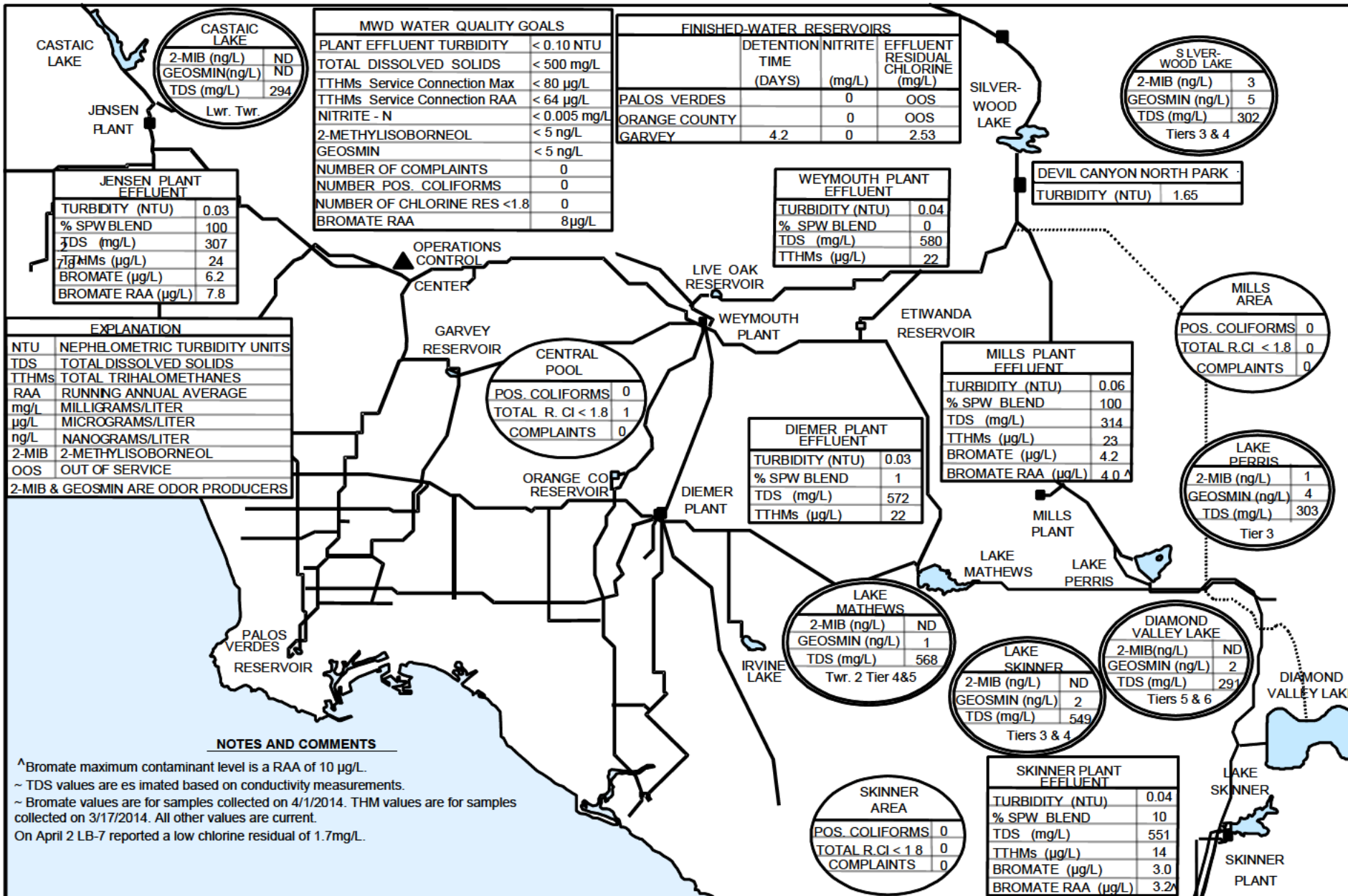
DTX-1128

Printed On: 4/2/2014 2:52:42 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, April 09, 2014

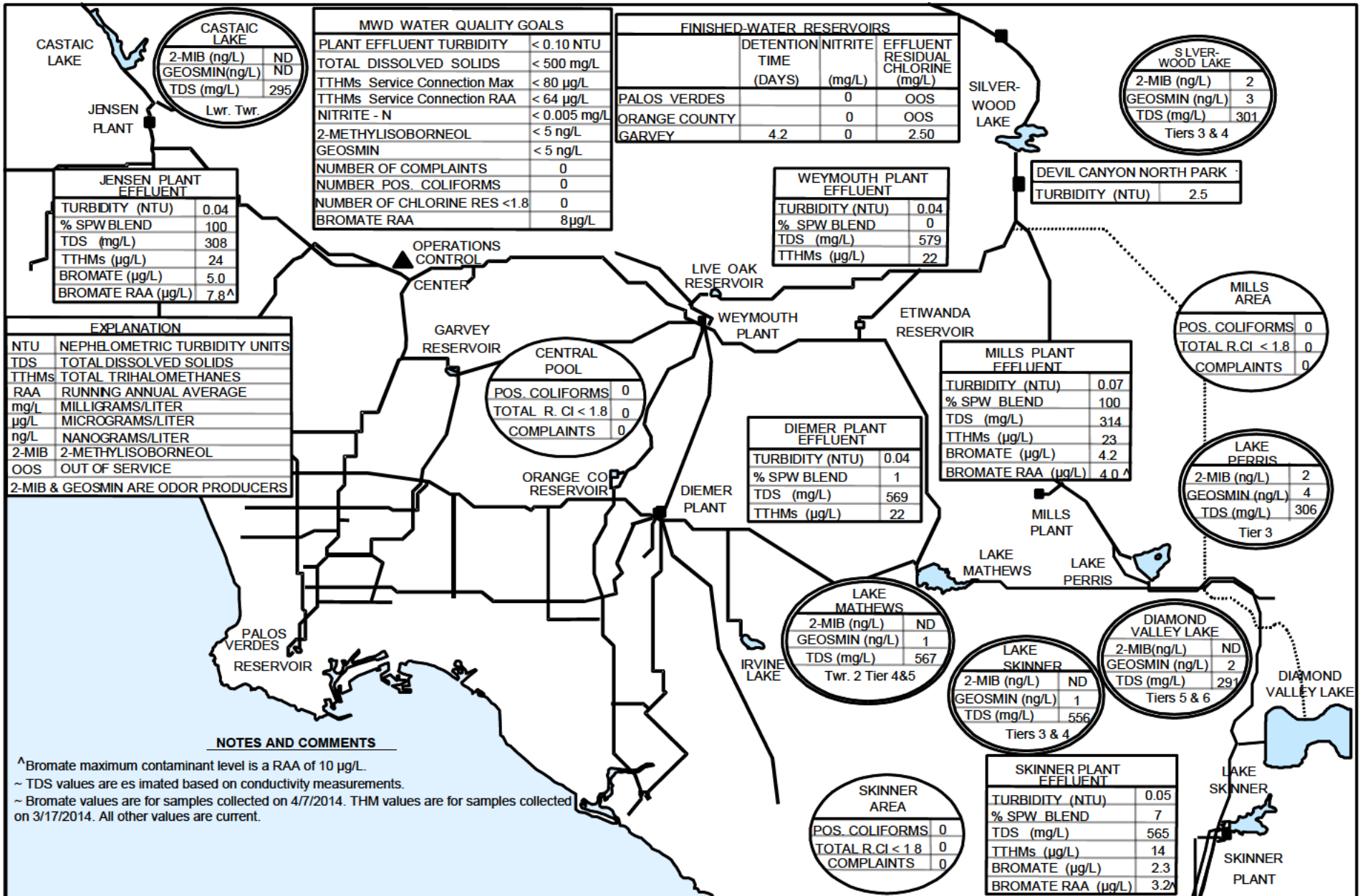
DTX-1128

Printed On: 4/9/2014 11:13:28 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, April 17, 2014

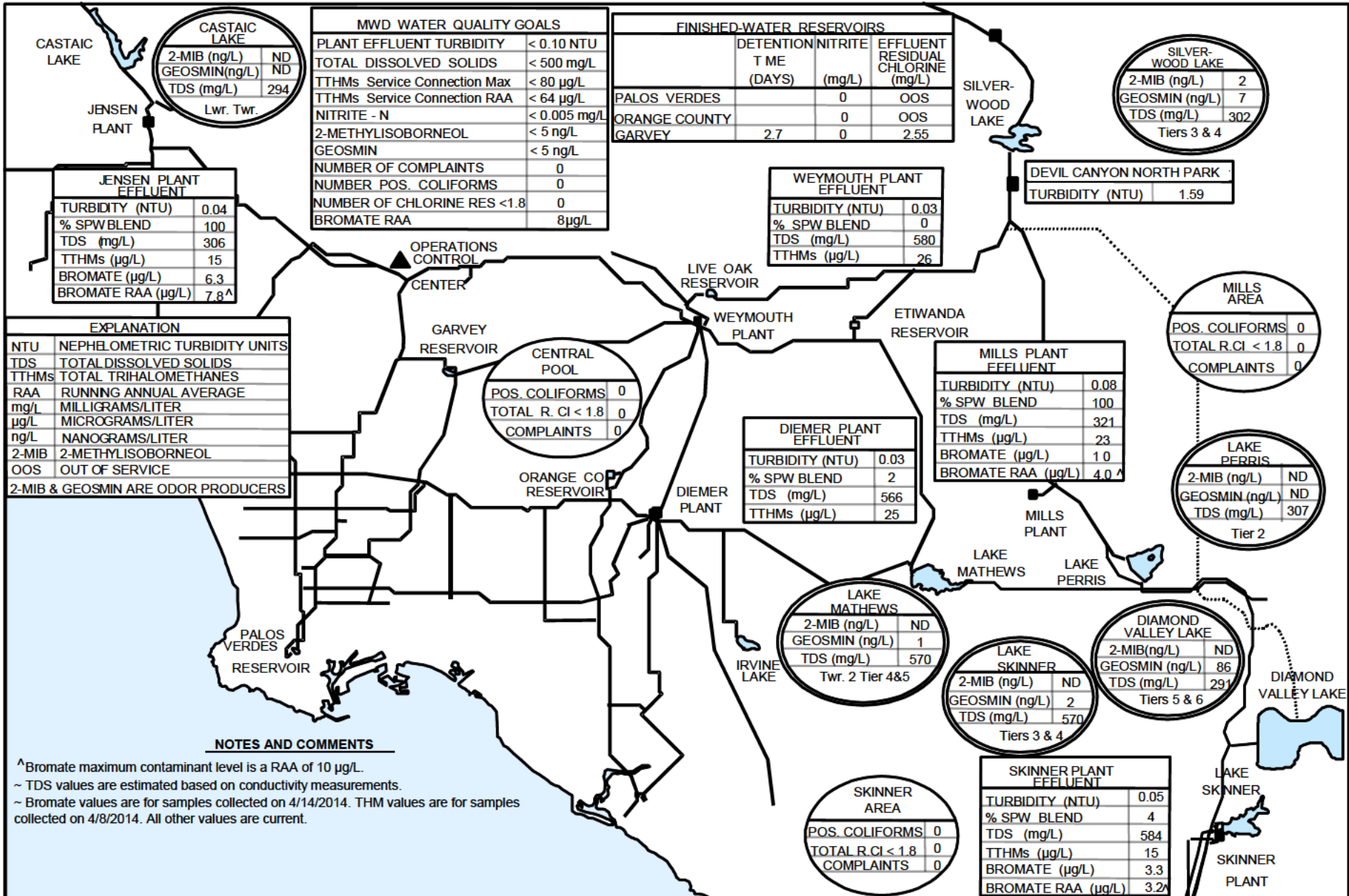
DTX-1128

Printed On: 4/17/2014 2:19:22 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Tuesday, April 22, 2014

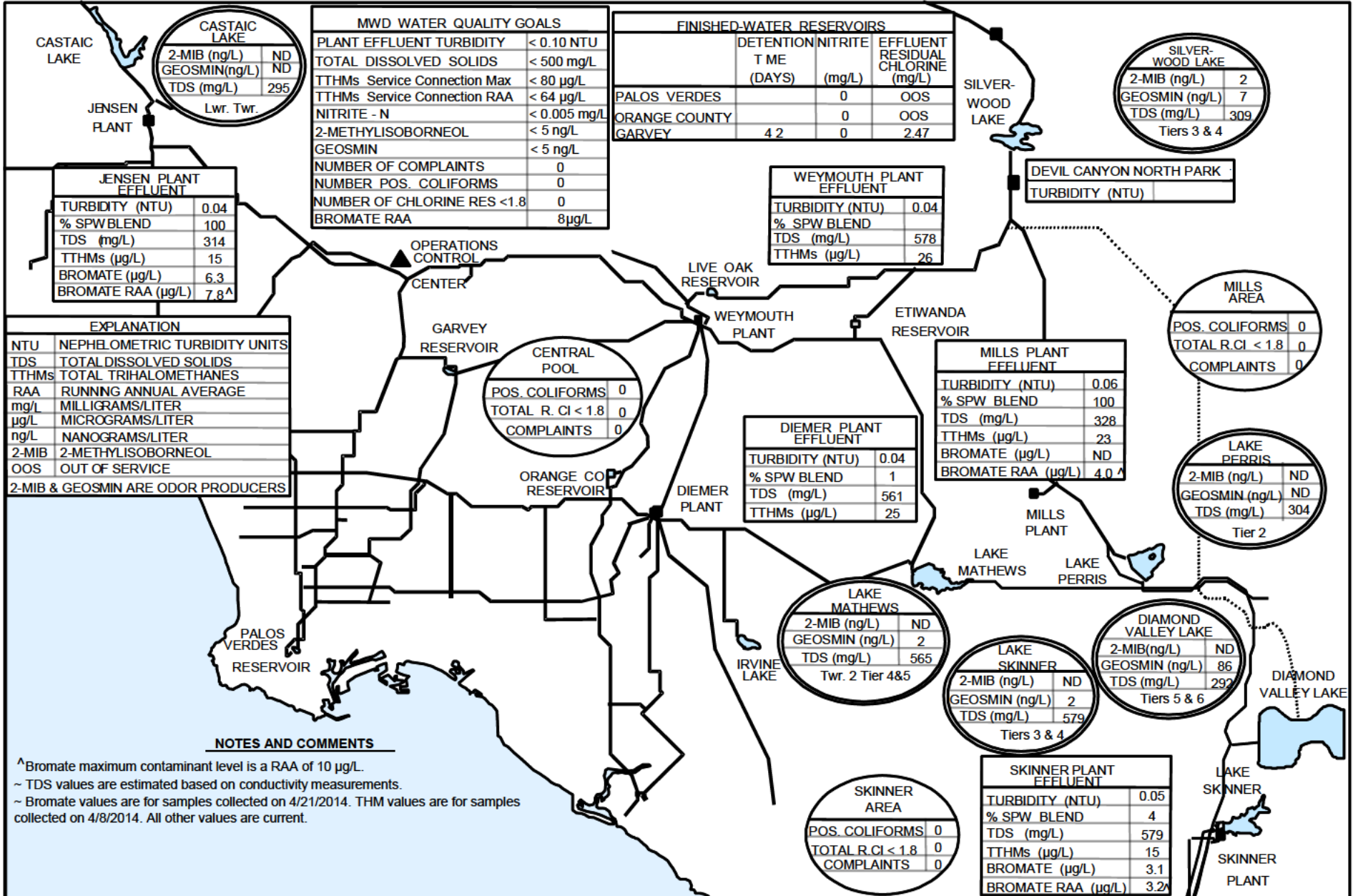
DTX-1128

Printed On: 4/23/2014 2:02:00 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, May 01, 2014

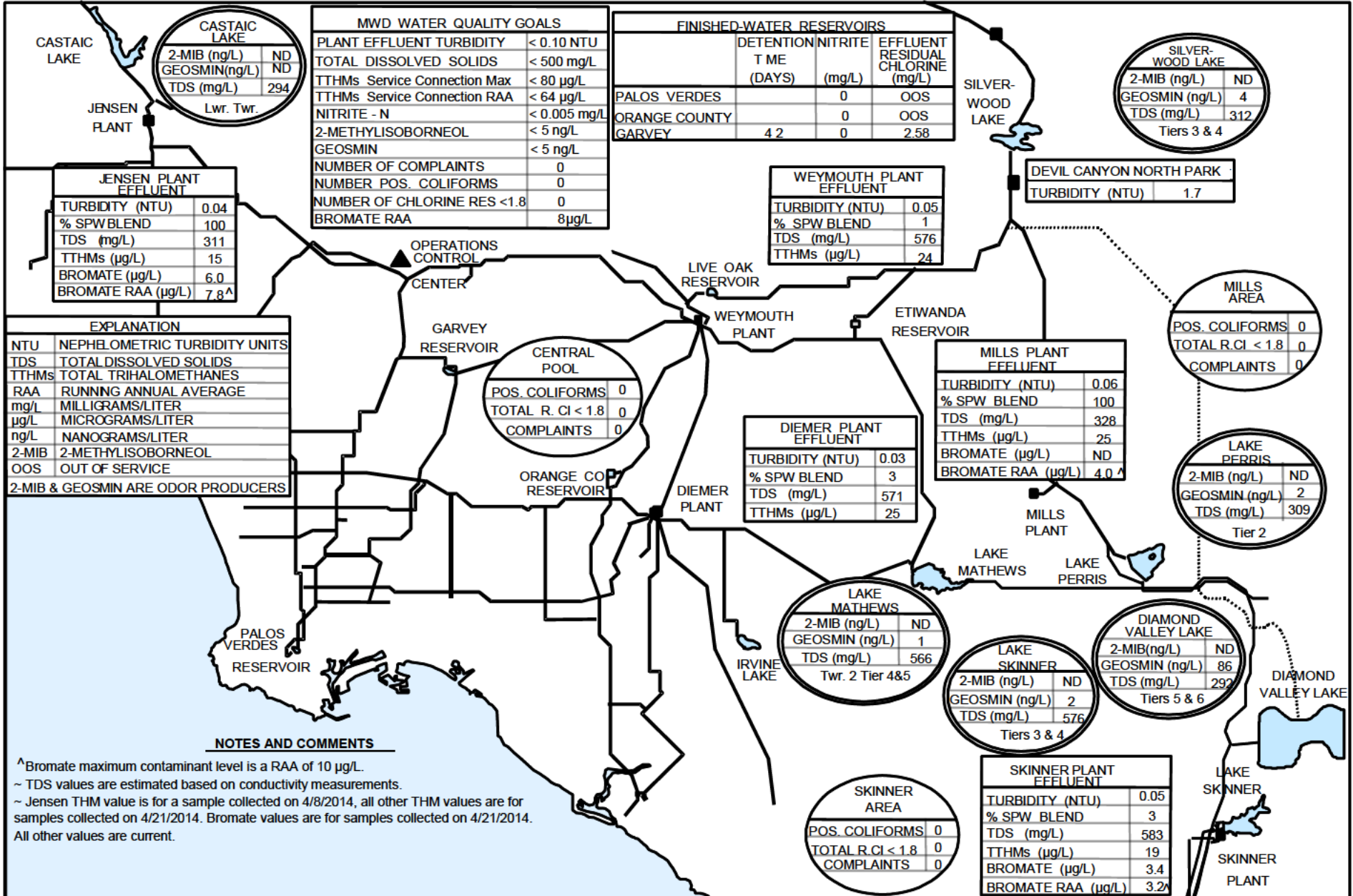
DTX-1128

Printed On: 5/2/2014 1:52:02 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, May 07, 2014

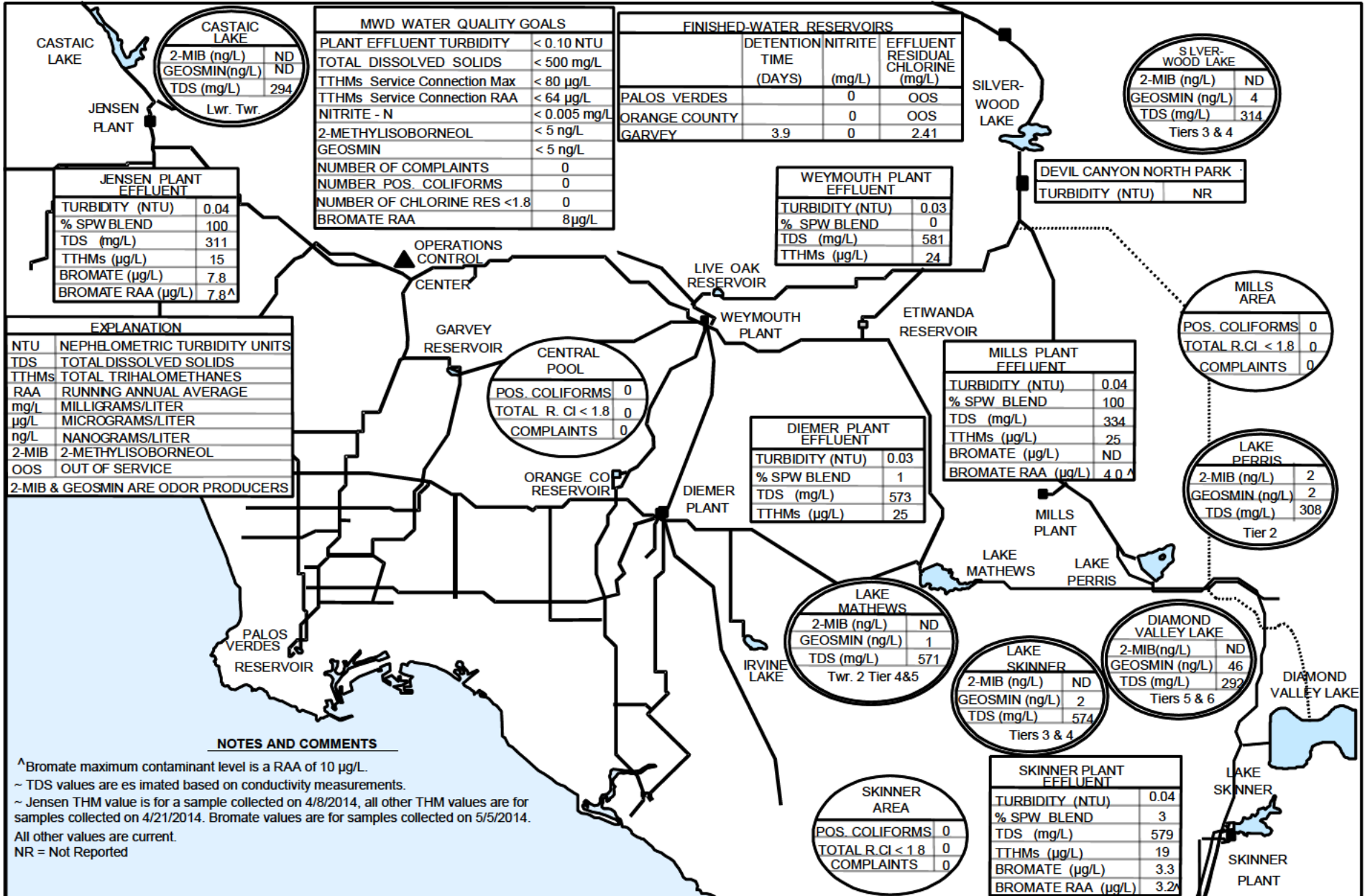
DTX-1128

Printed On: 5/7/2014 11:32:17 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, May 14, 2014

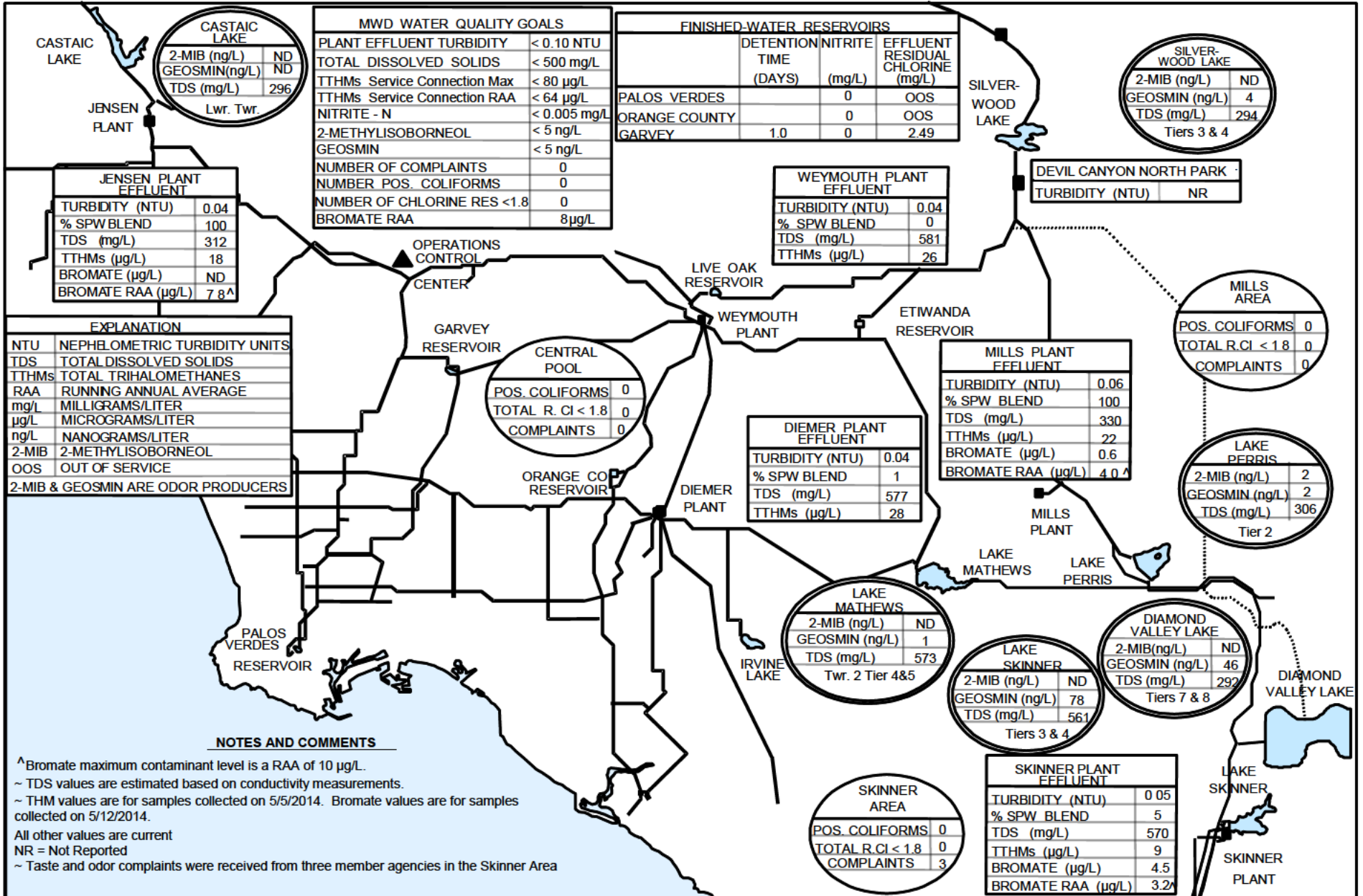
DTX-1128

Printed On: 5/16/2014 6:55:24 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, June 11, 2014

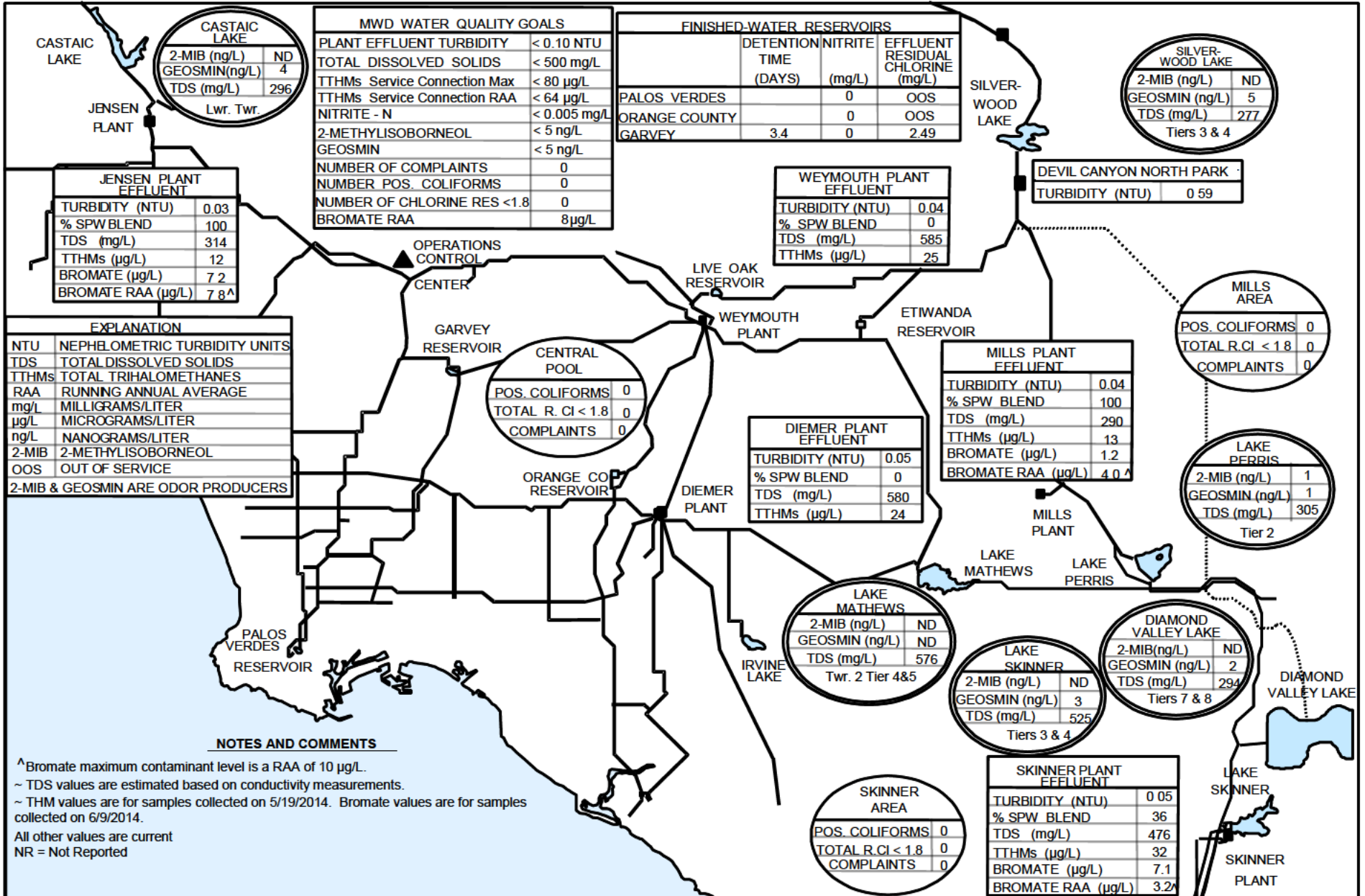
DTX-1128

Printed On: 6/11/2014 2:56:32 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
 VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, June 18, 2014

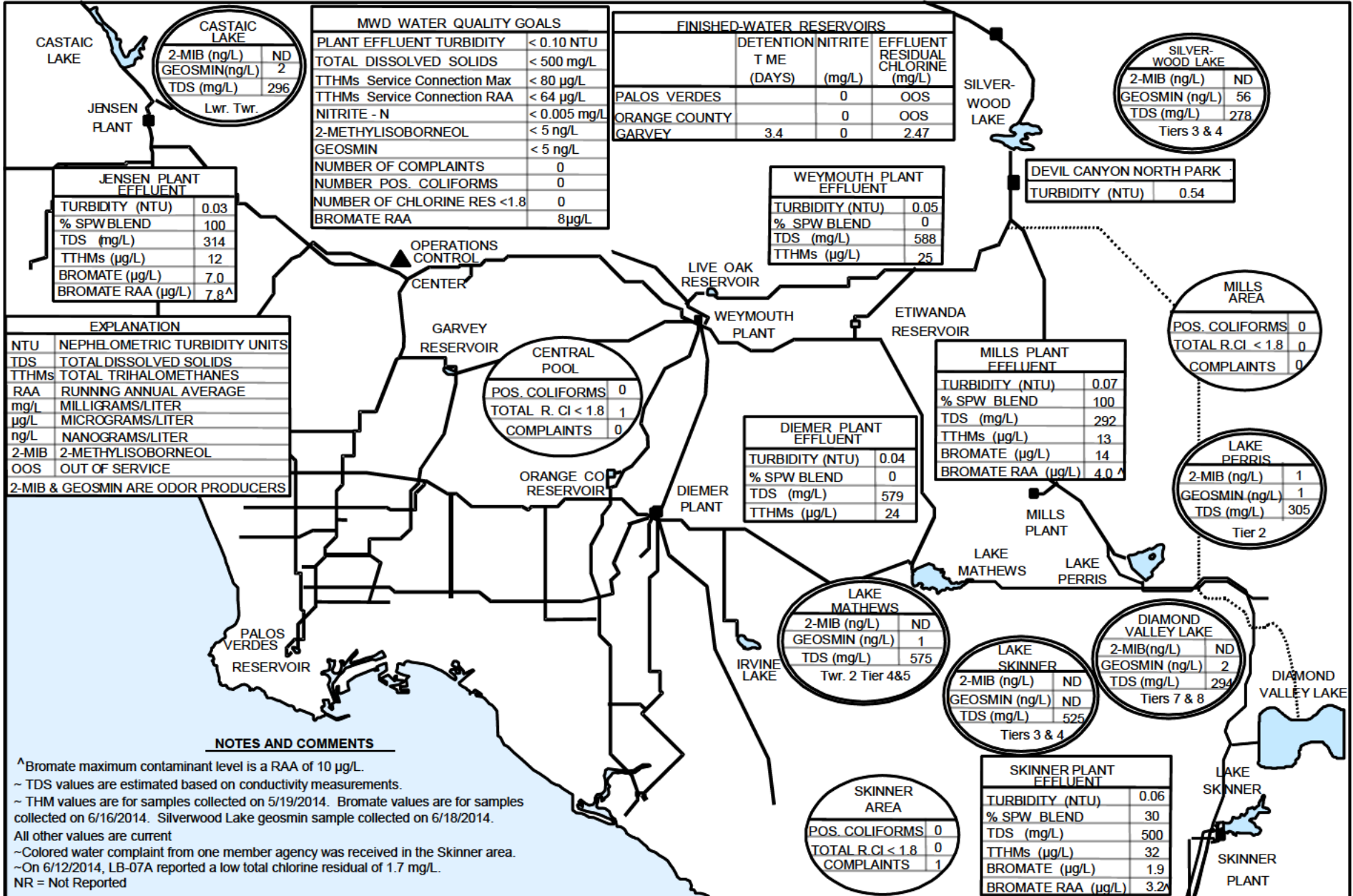
DTX-1128

Printed On: 6/20/2014 1:33:15 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, June 25, 2014

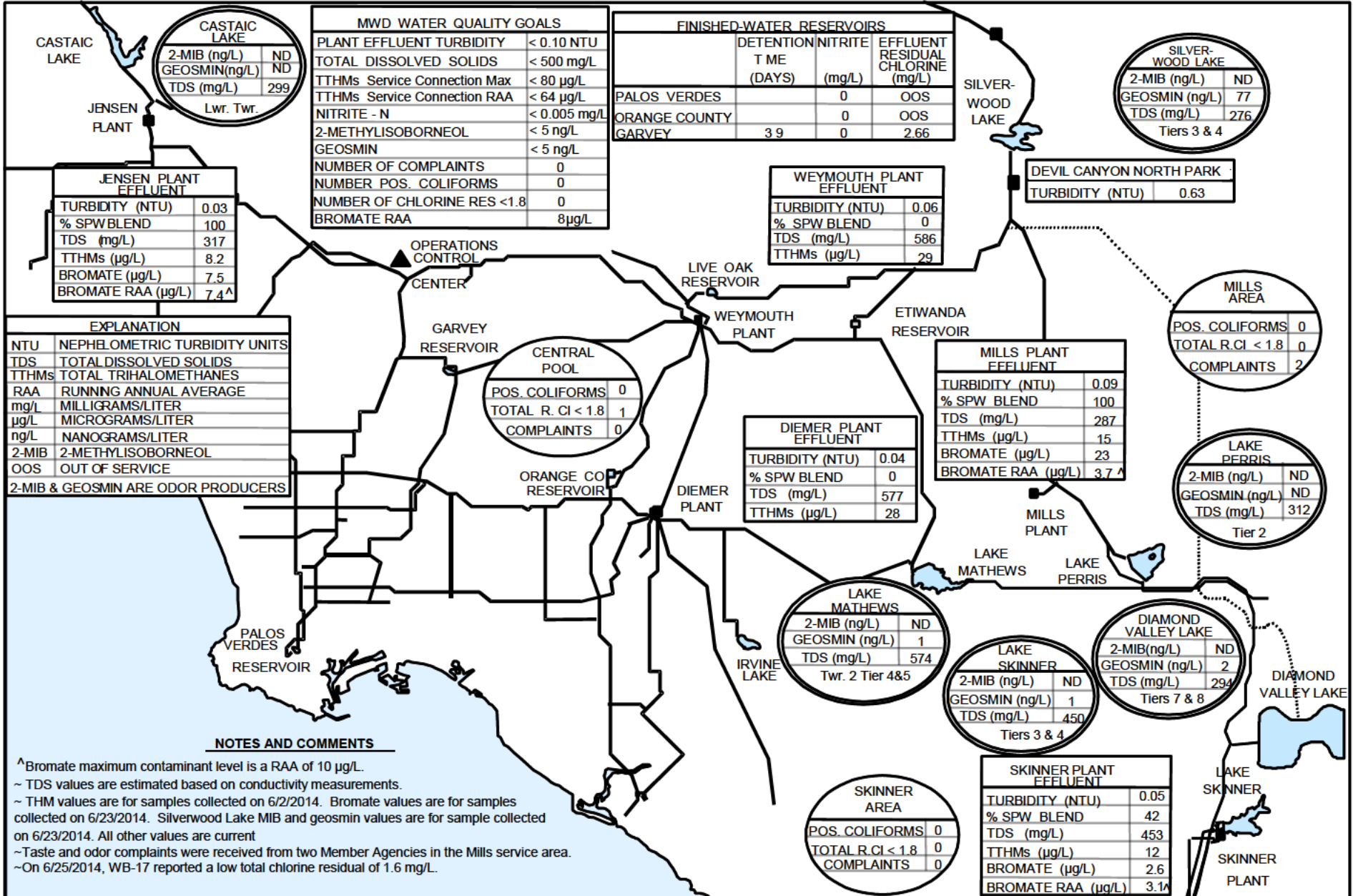
DTX-1128

Printed On: 6/27/2014 6:46:31 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, July 16, 2014

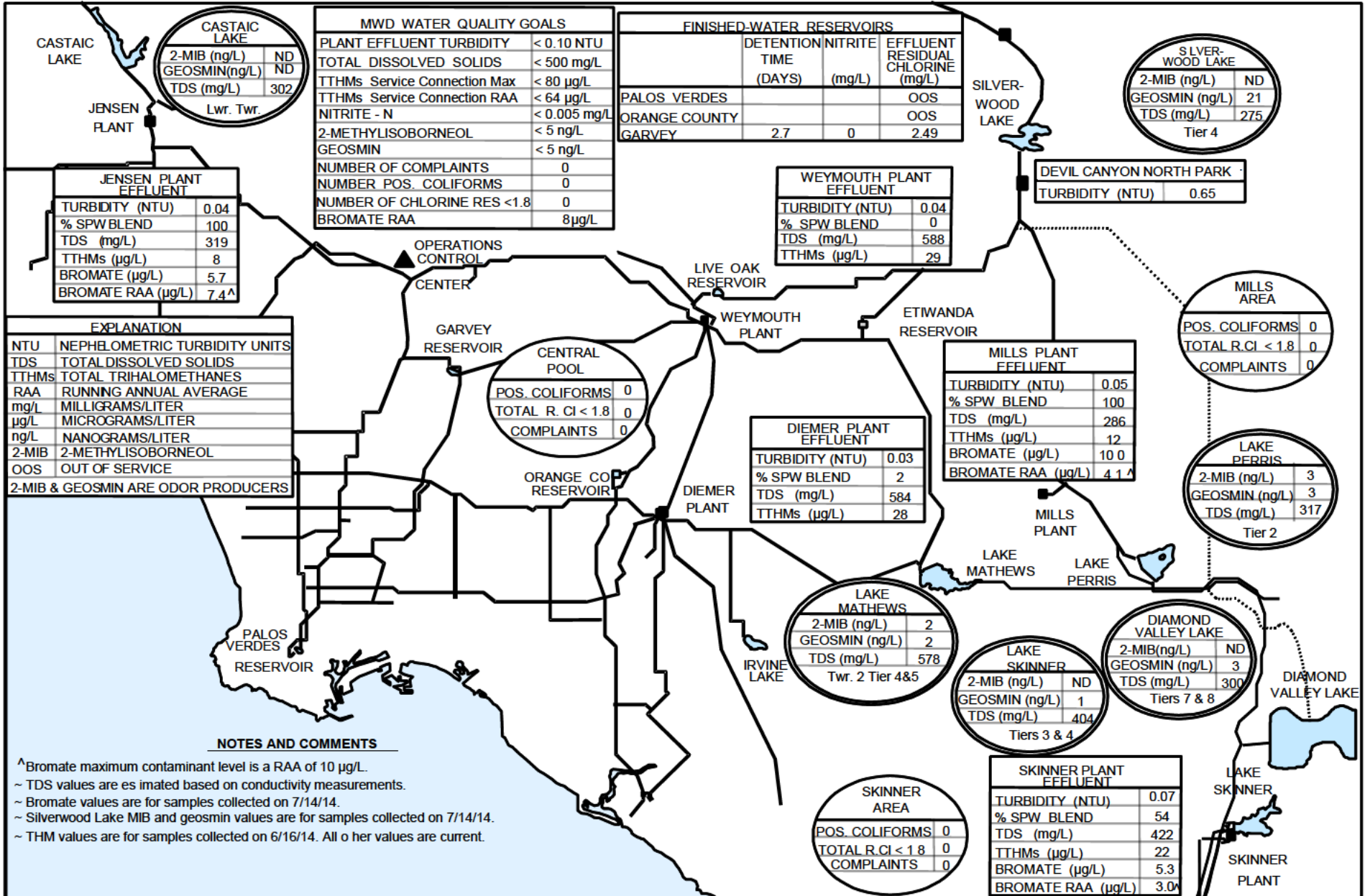
DTX-1128

Printed On: 7/18/2014 7:27:11 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, July 24, 2014

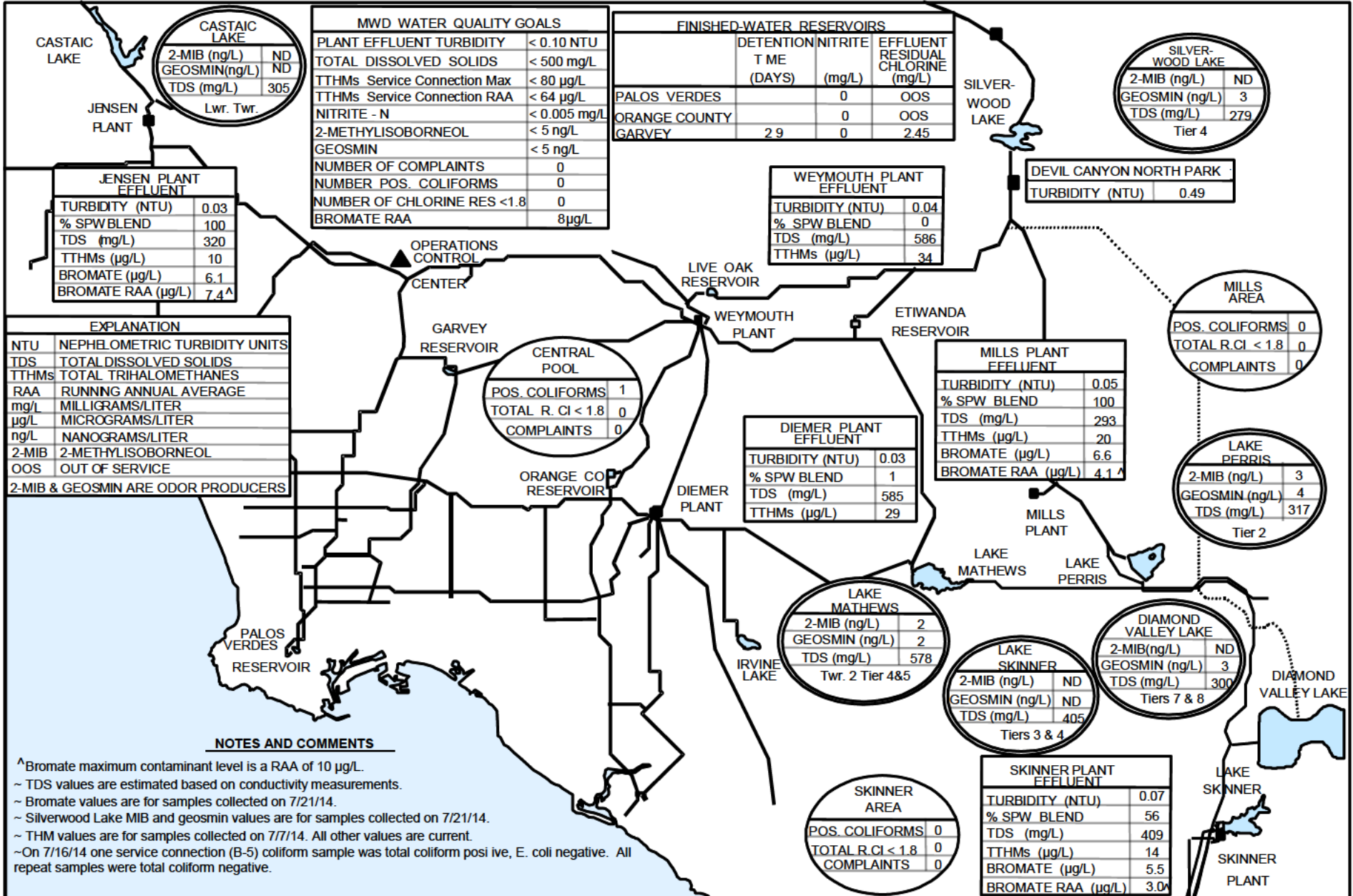
DTX-1128

Printed On: 7/24/2014 3:21:36 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, July 30, 2014

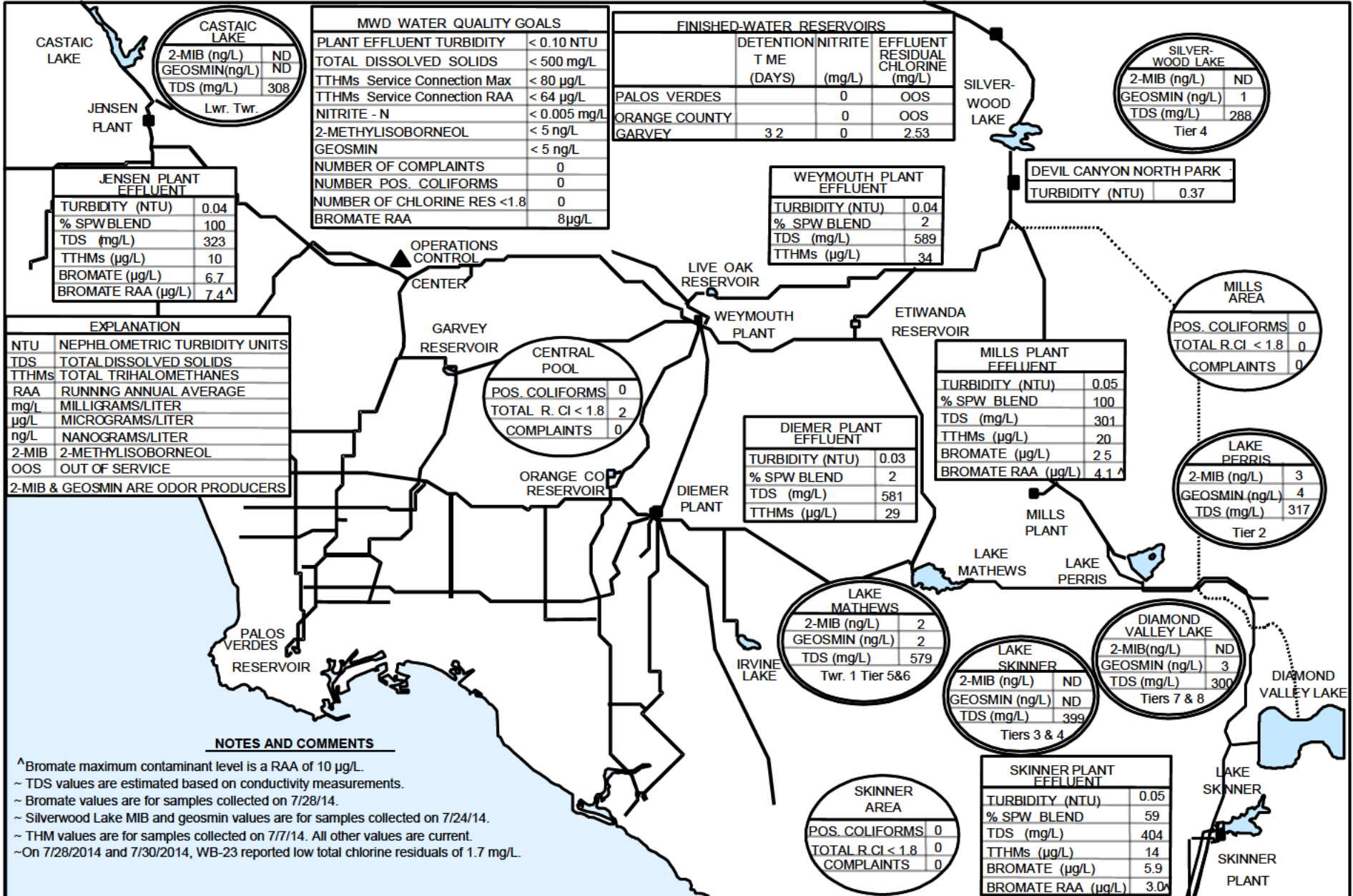
DTX-1128

Printed On: 7/30/2014 11:13:20 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, August 06, 2014

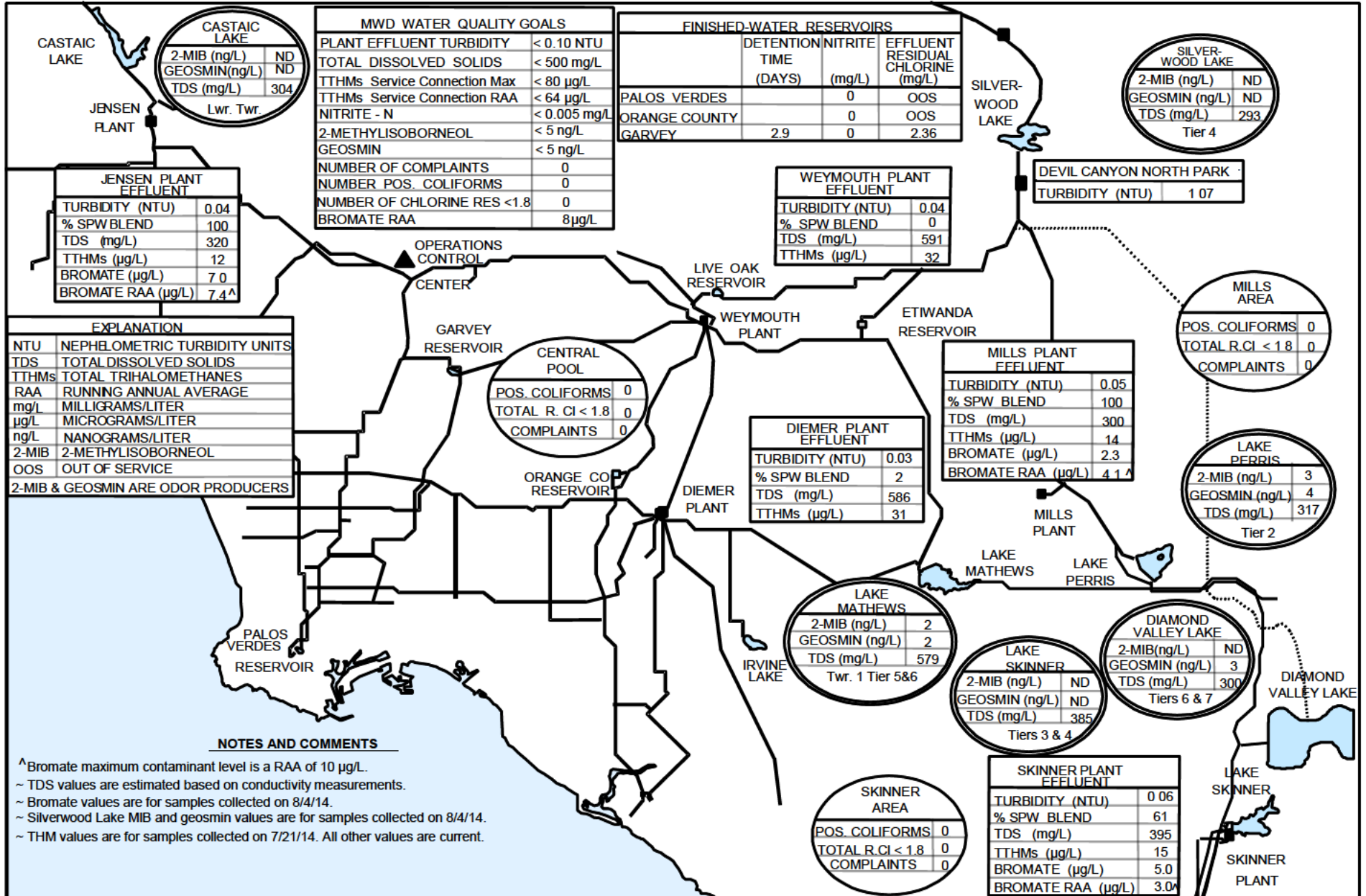
DTX-1128

Printed On: 8/7/2014 3:51:34 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, August 13, 2014

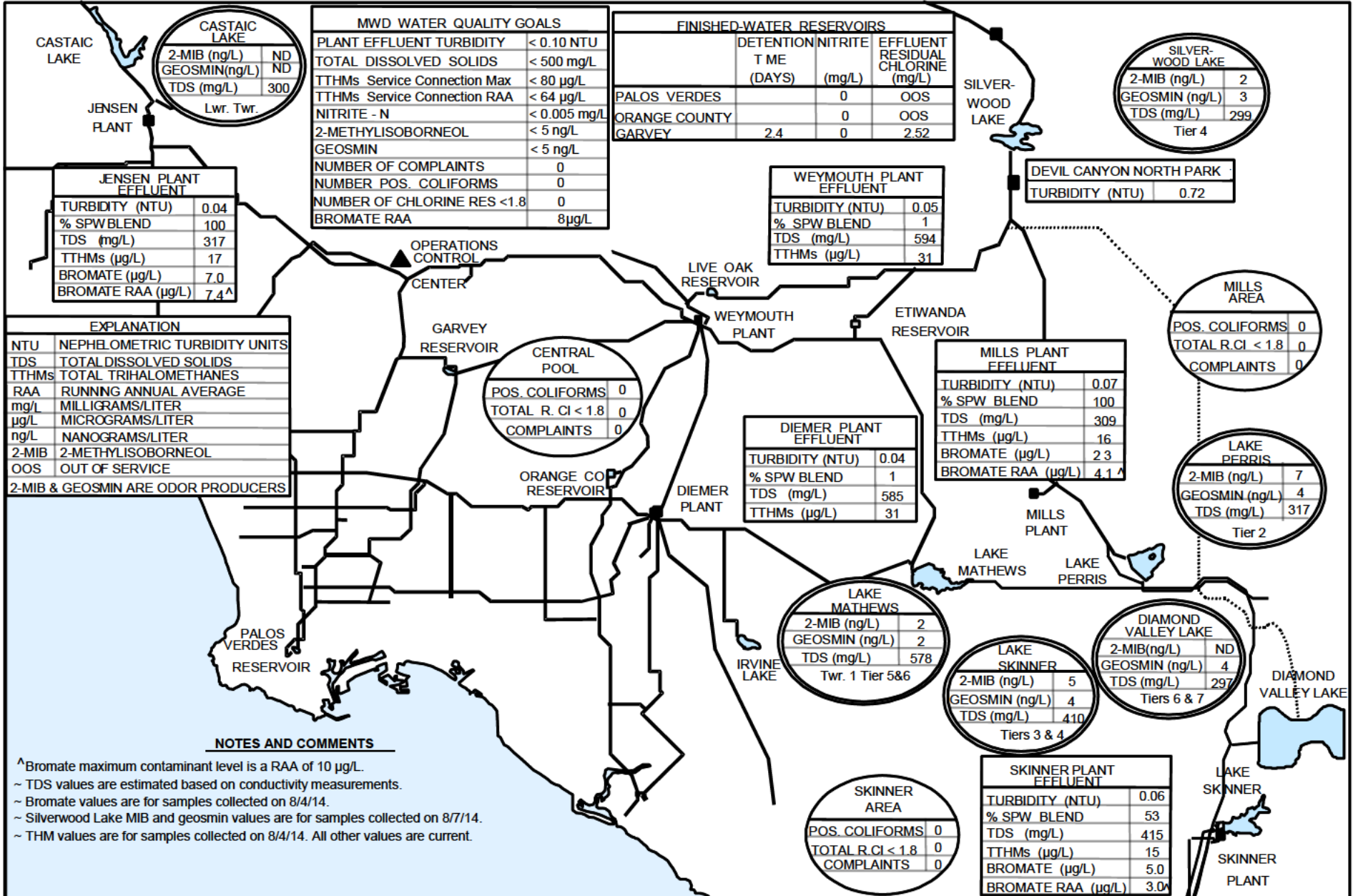
DTX-1128

Printed On: 8/15/2014 1:35:20 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, August 20, 2014

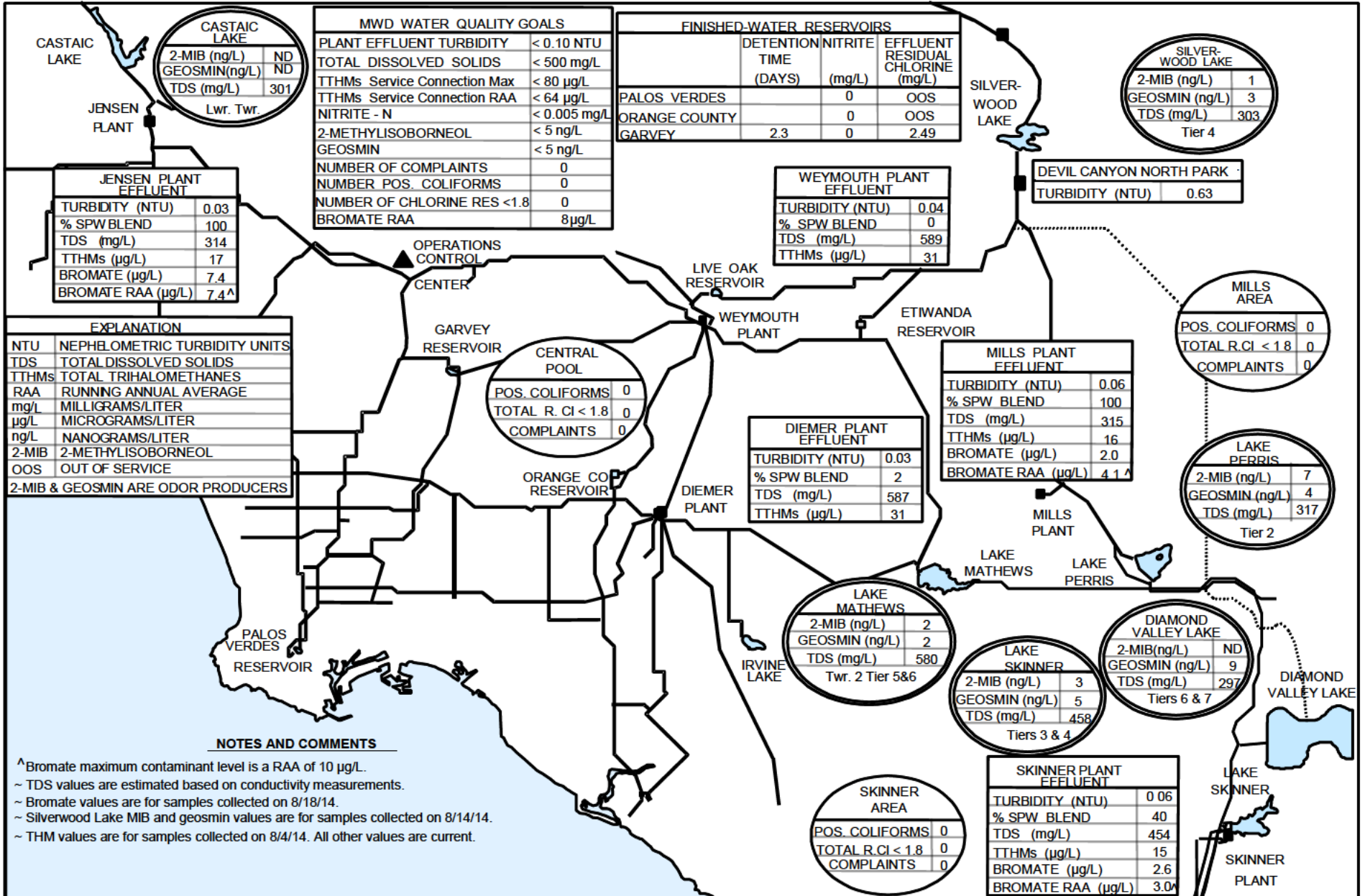
DTX-1128

Printed On: 8/20/2014 2:37:14 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



Weekly Water Quality System Status

Wednesday, August 27, 2014

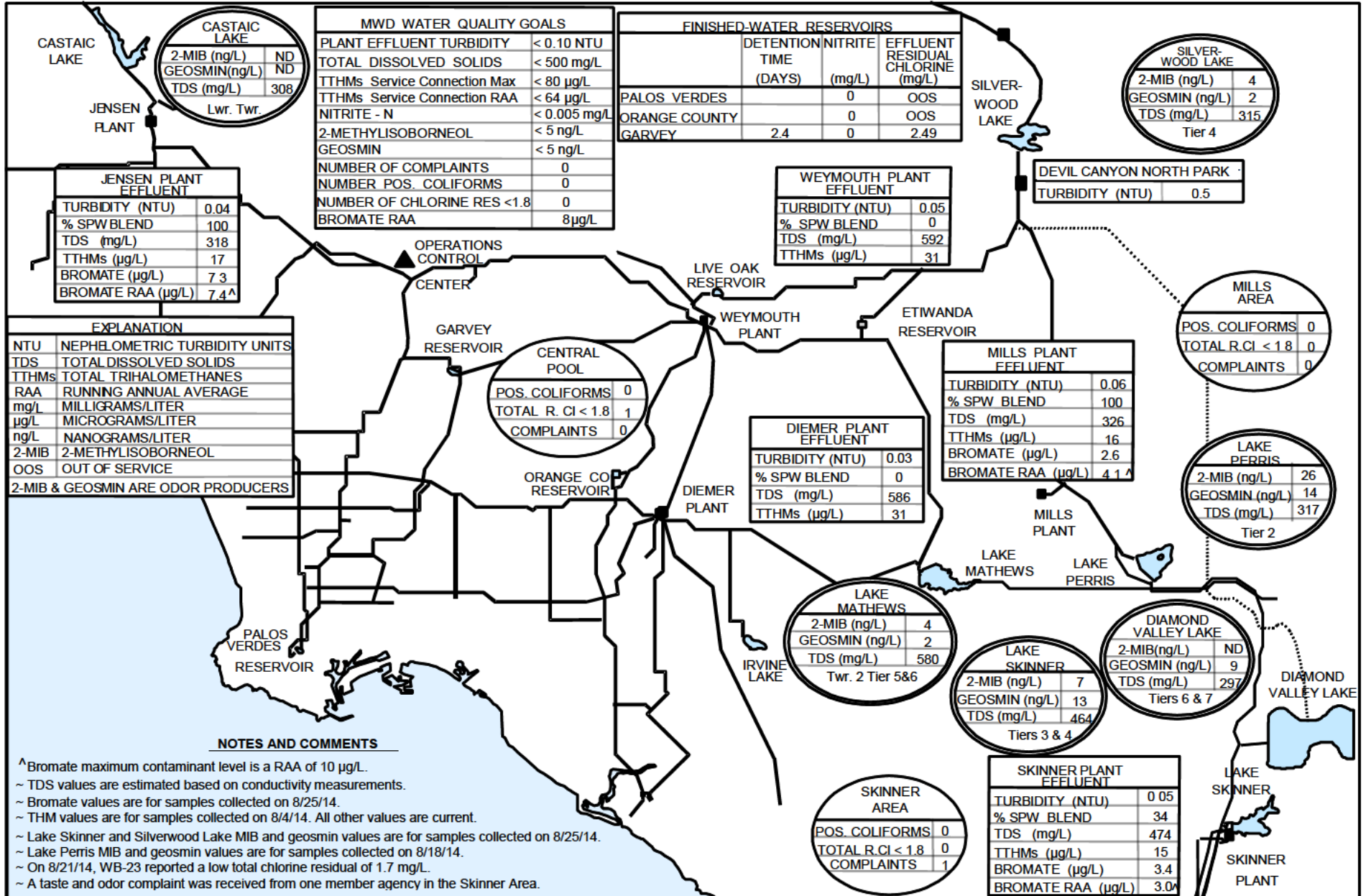
DTX-1128

Printed On: 8/29/2014 8:10:20 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, September 04, 2014

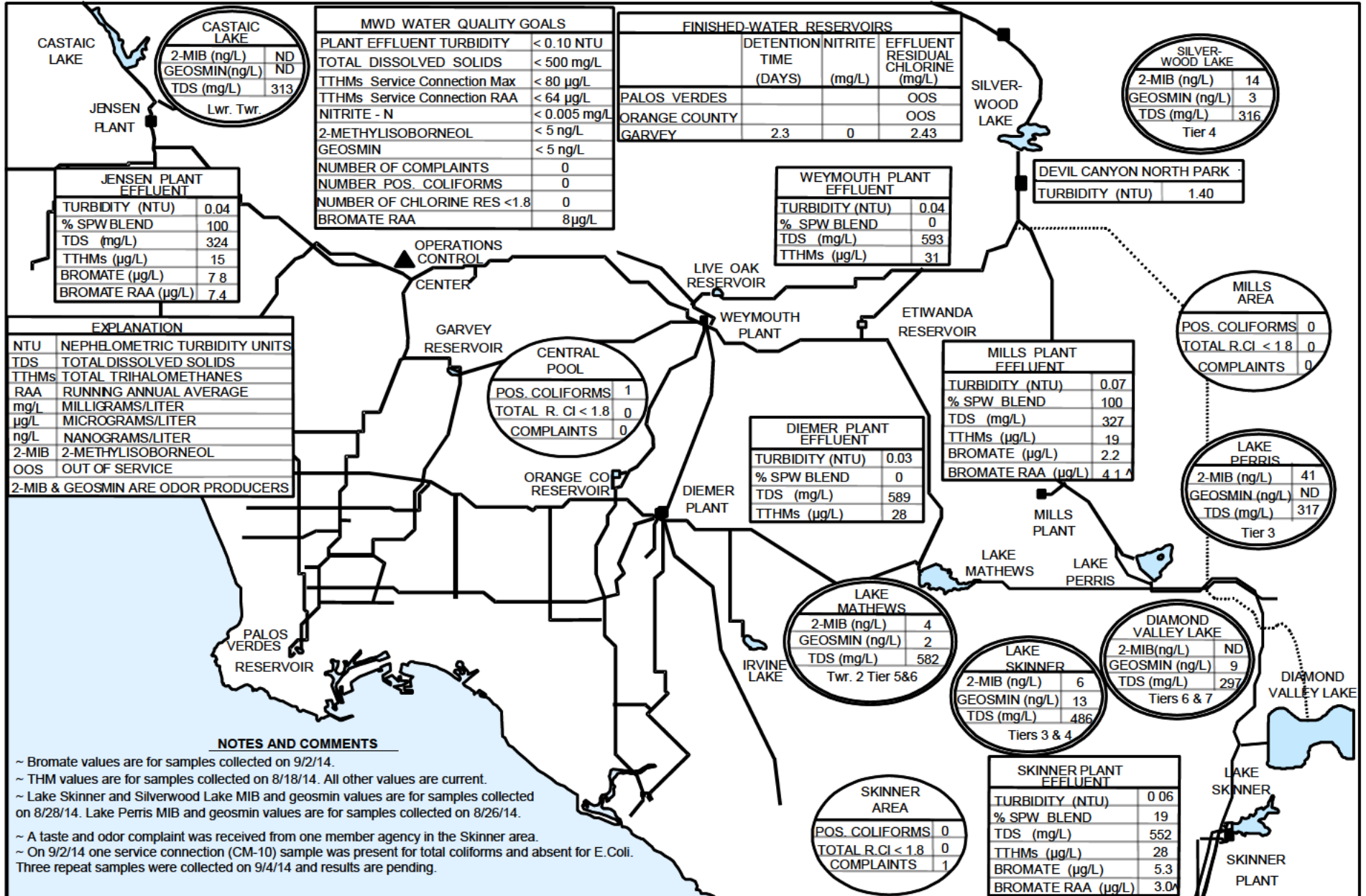
DTX-1128

Printed On: 9/5/2014 11:01:10 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, September 10, 2014

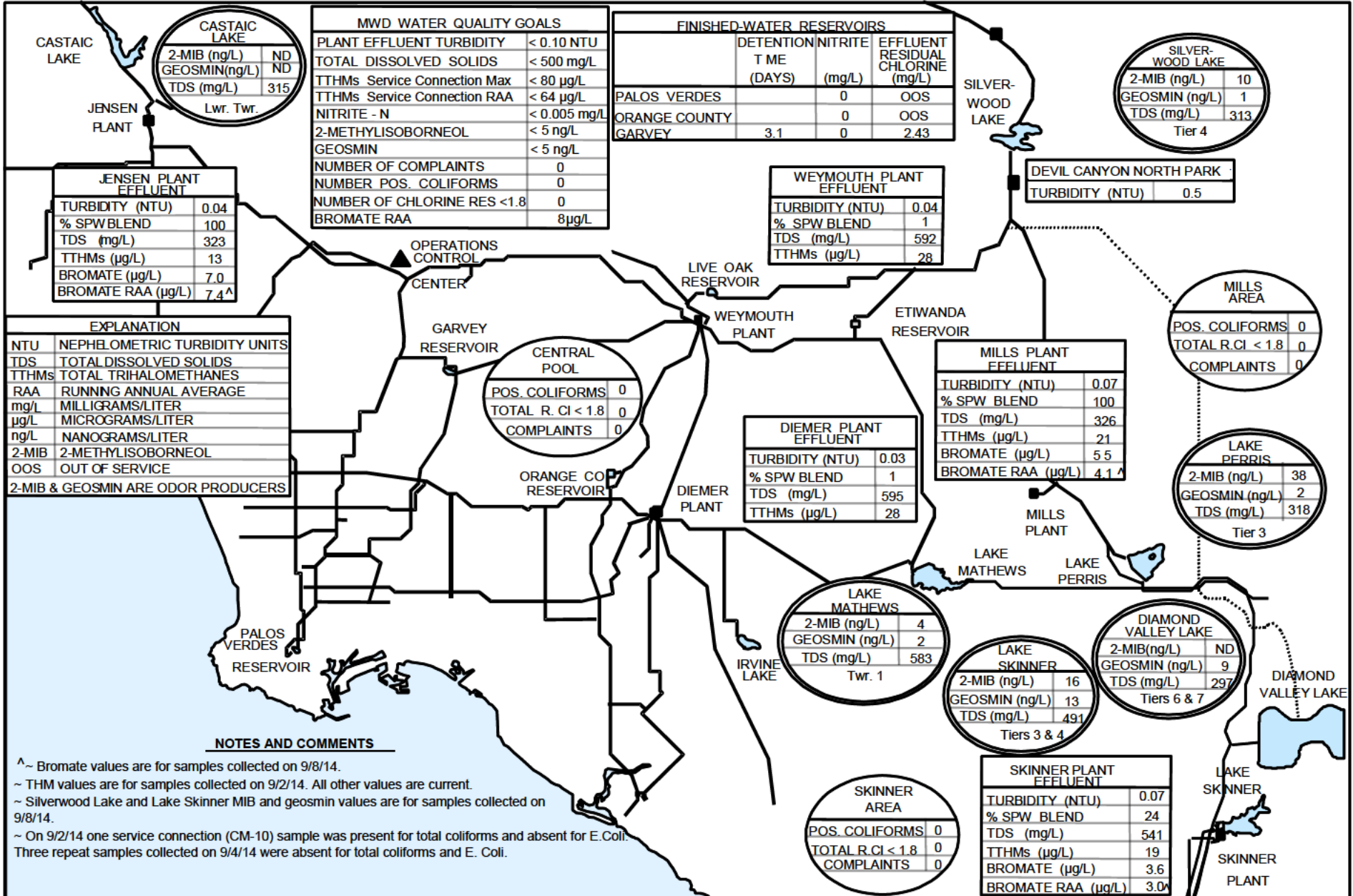
DTX-1128

Printed On: 9/10/2014 1:49:33 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, September 17, 2014

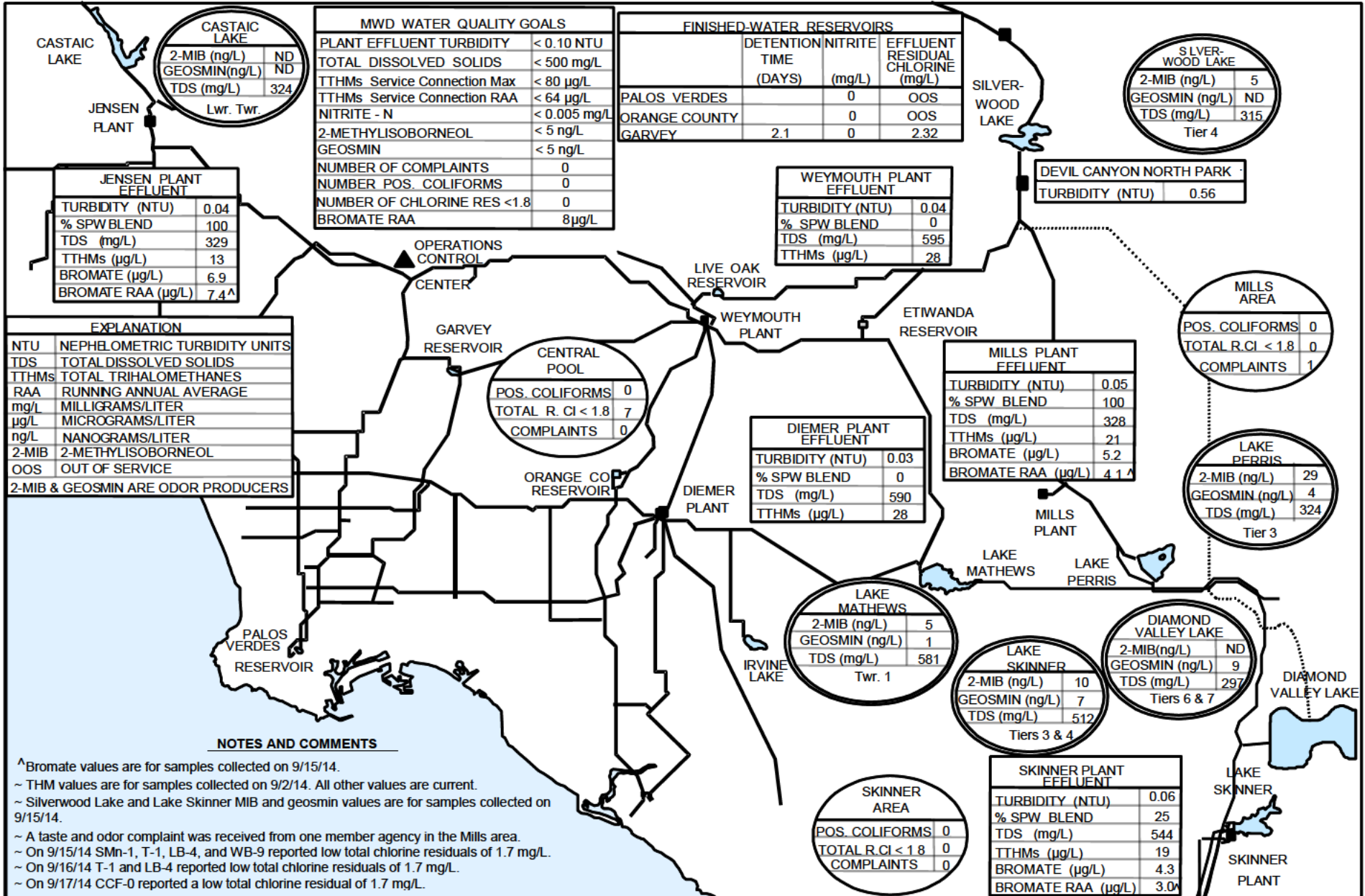
DTX-1128

Printed On: 9/17/2014 2:28:11 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Thursday, September 25, 2014

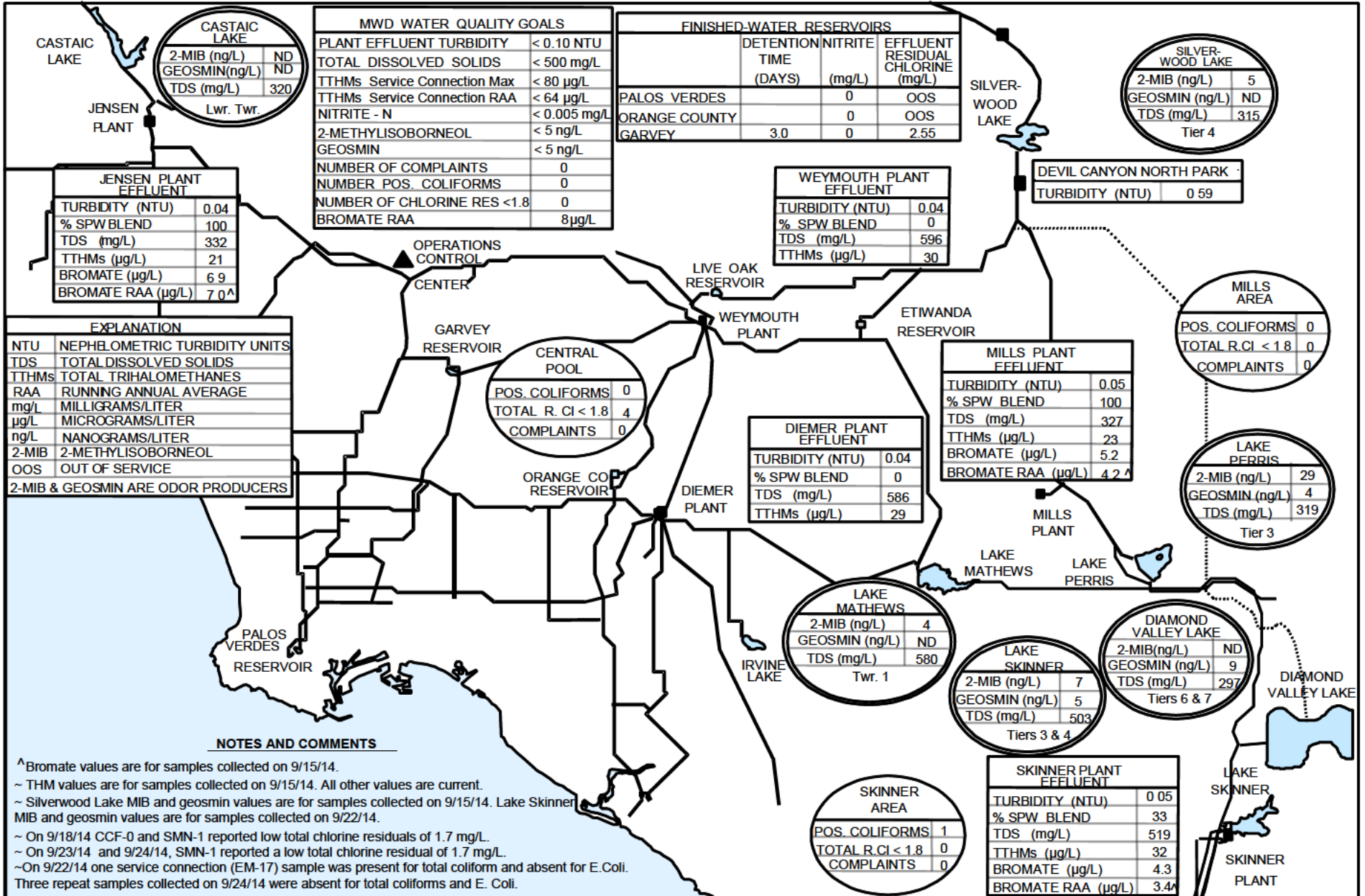
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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 01, 2014

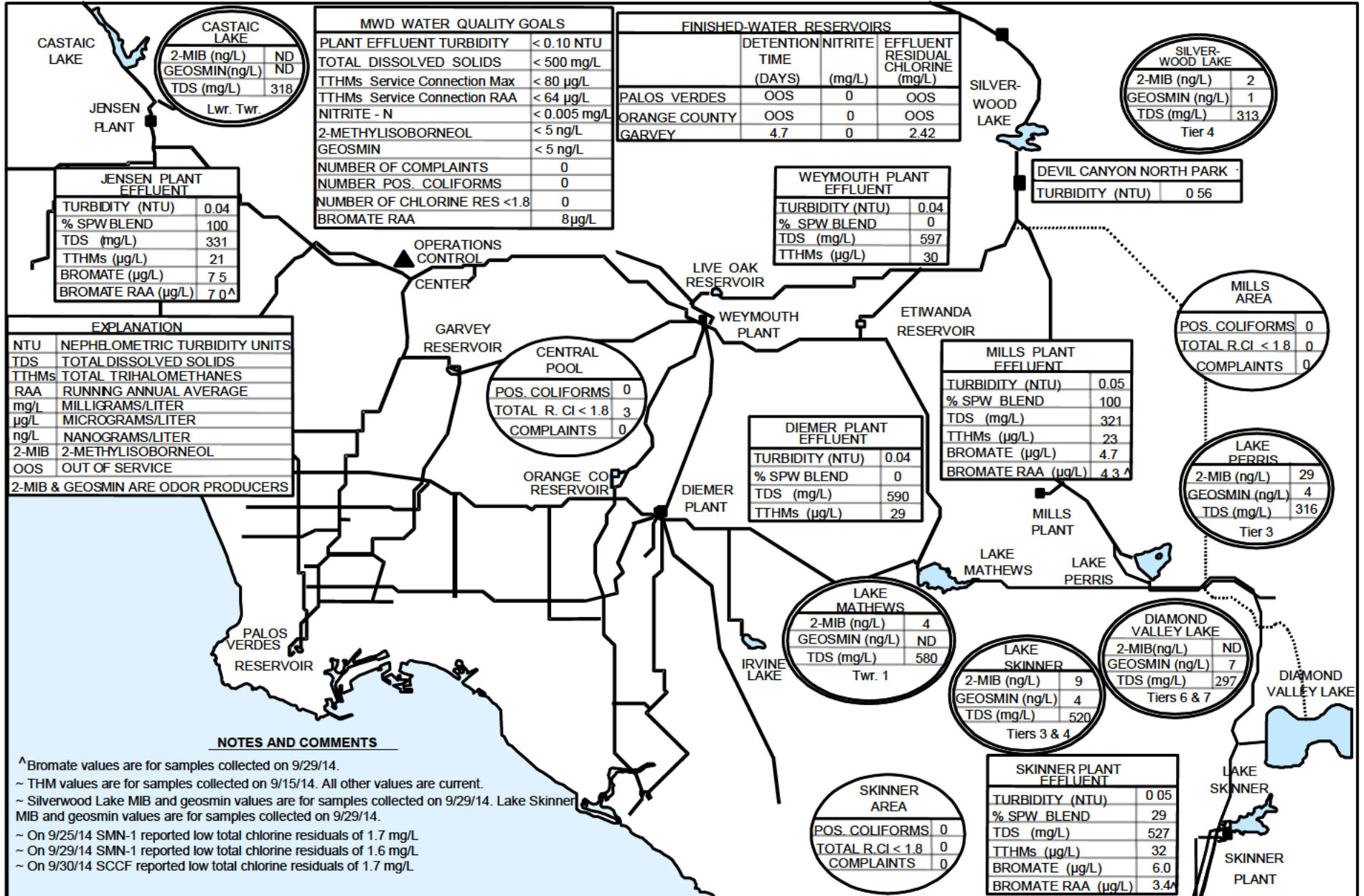
DTX-1128

Printed On: 10/3/2014 9:13:28 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 08, 2014

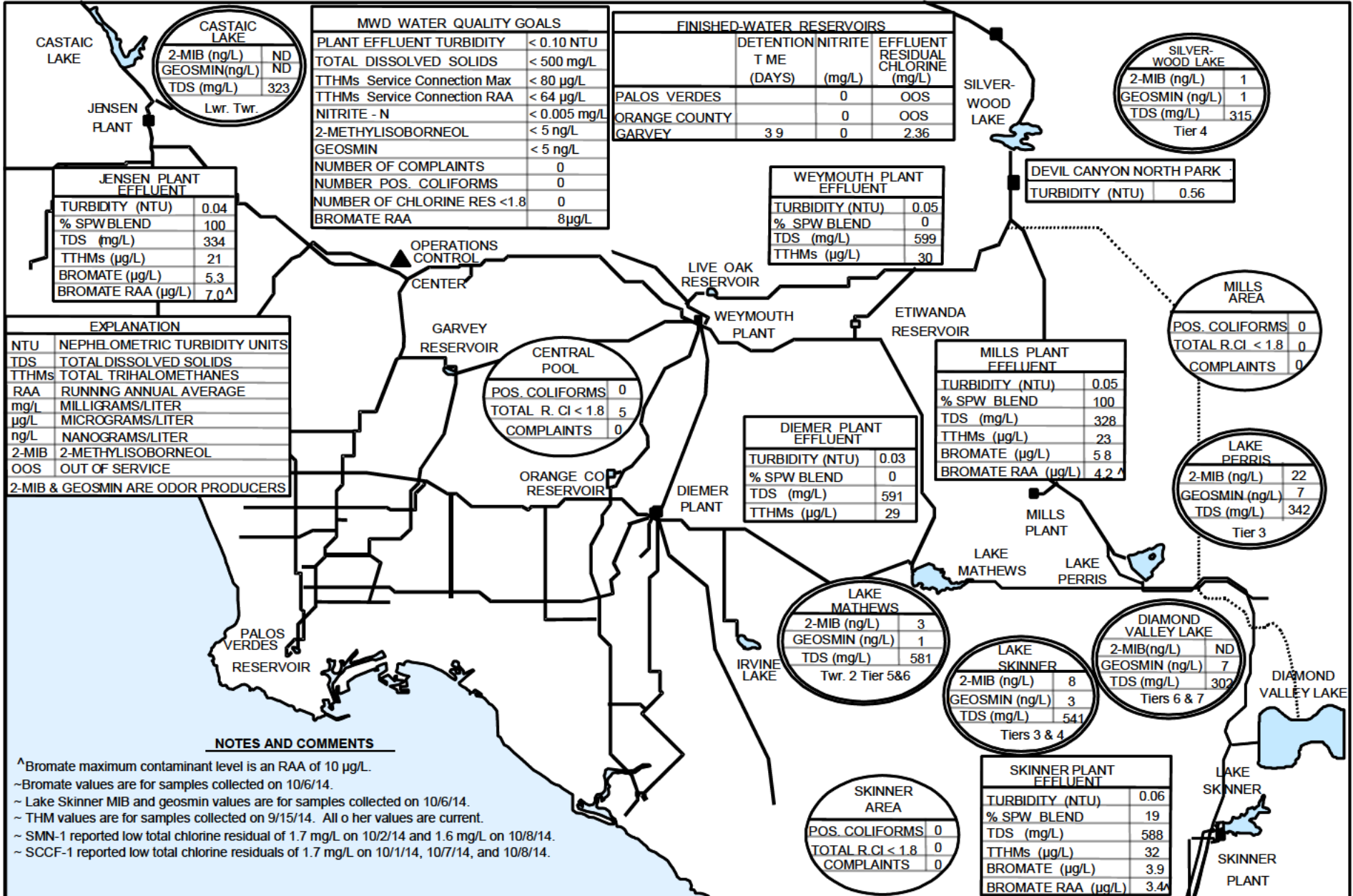
DTX-1128

Printed On: 10/8/2014 2:02:51 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, October 15, 2014

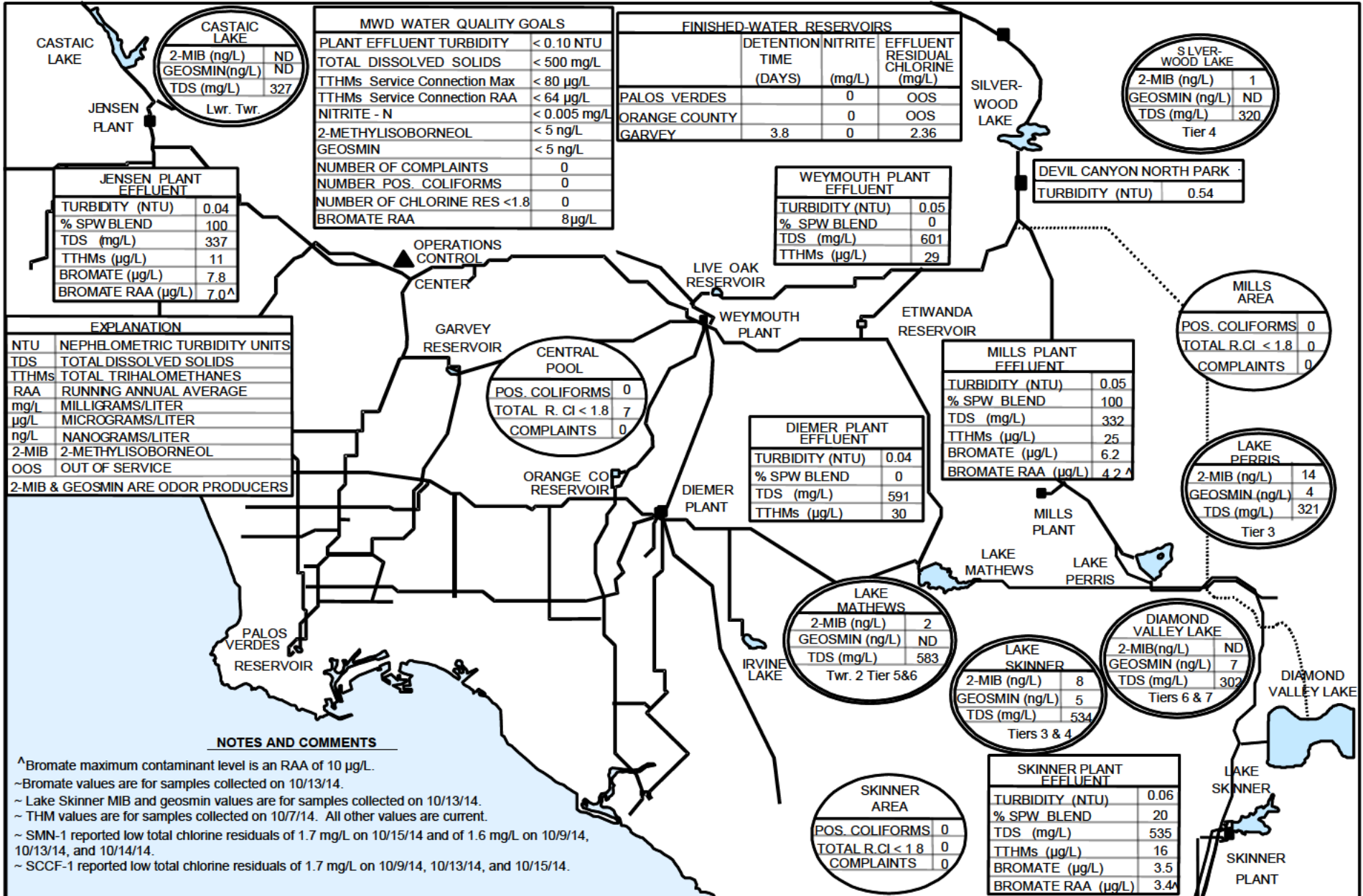
DTX-1128

Printed On: 10/17/2014 1:05:22 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, November 05, 2014

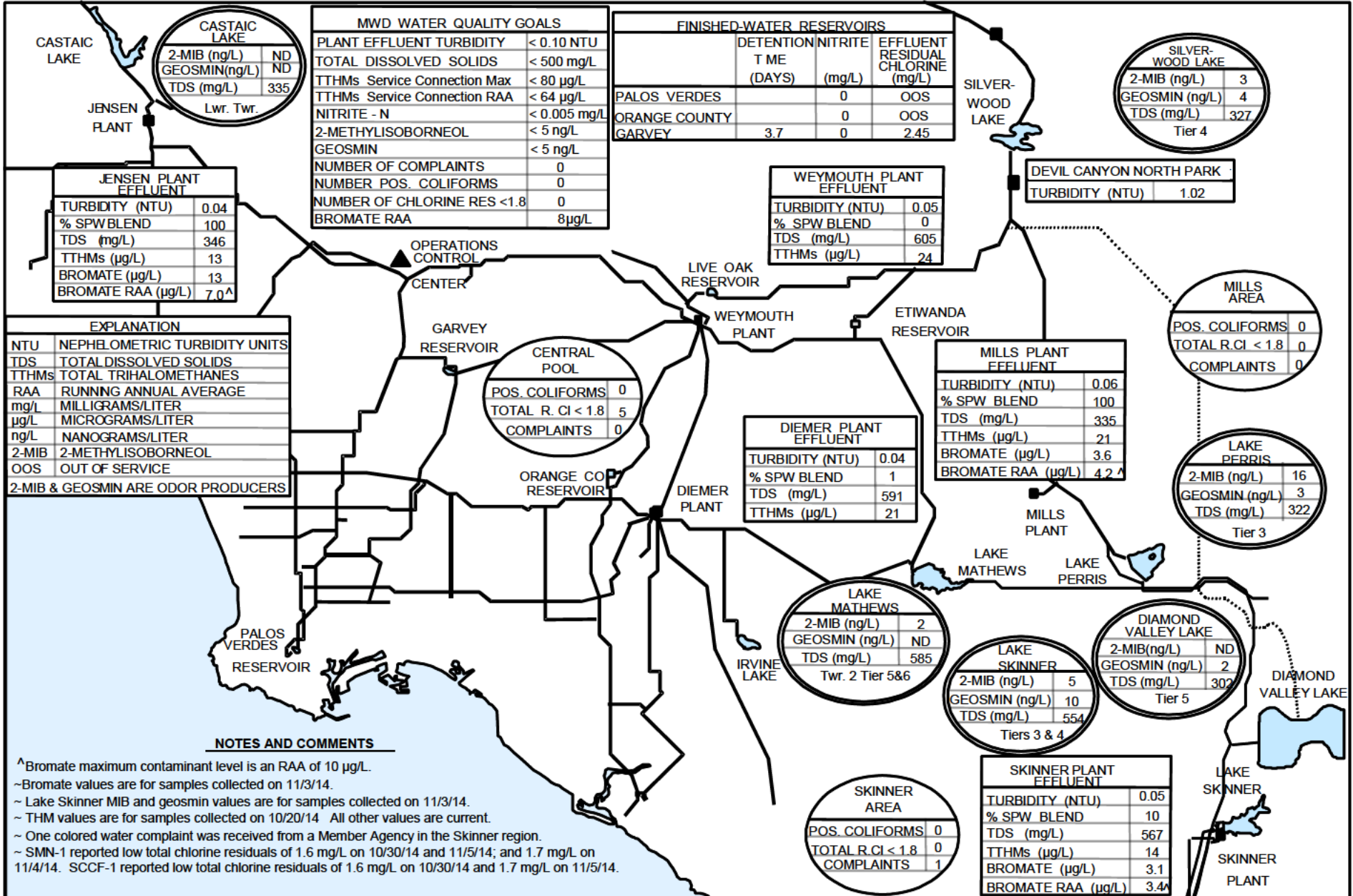
DTX-1128

Printed On: 11/6/2014 3:11:36 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, November 19, 2014

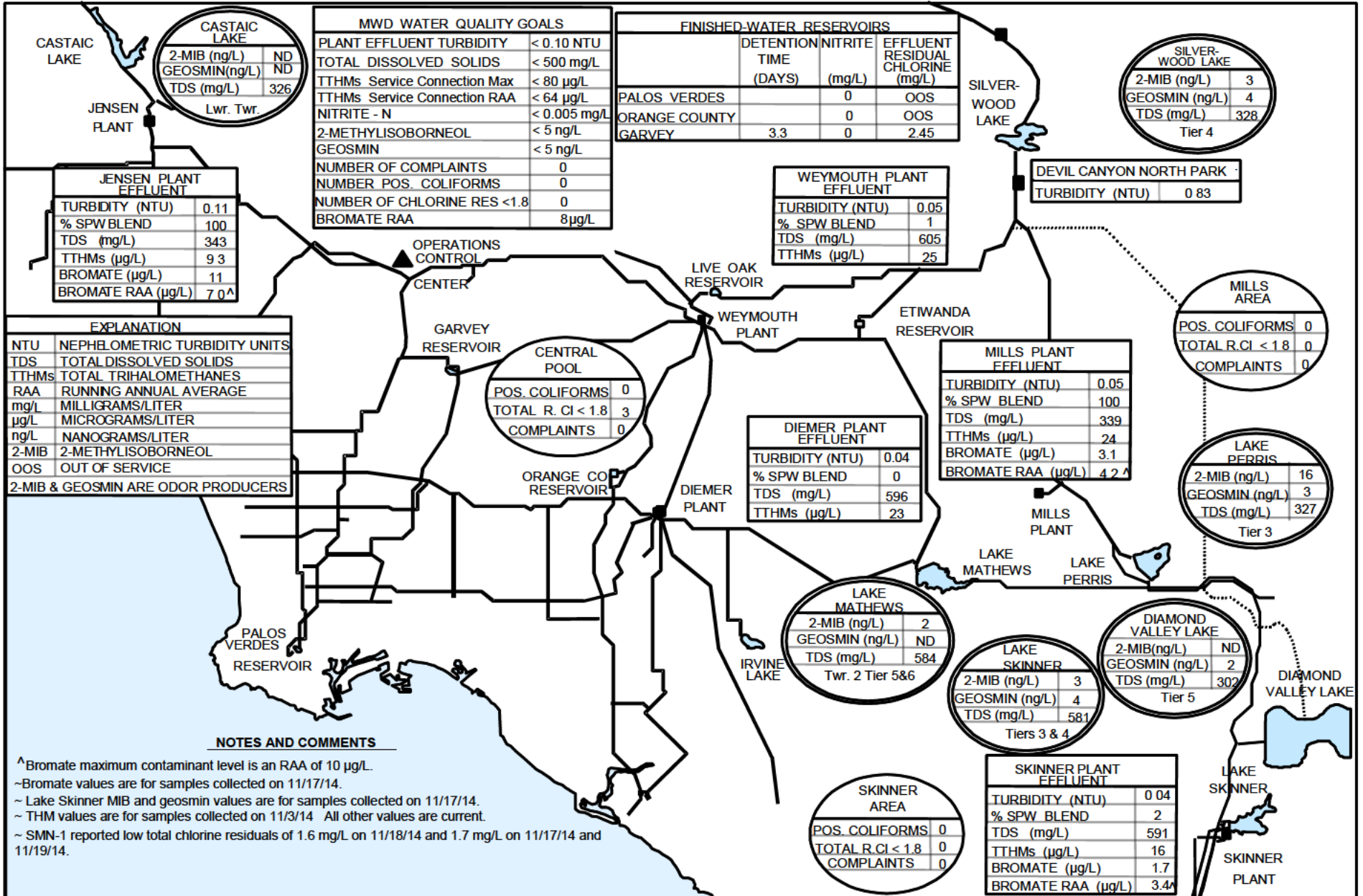
DTX-1128

Printed On: 11/19/2014 1:29:19 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, November 26, 2014

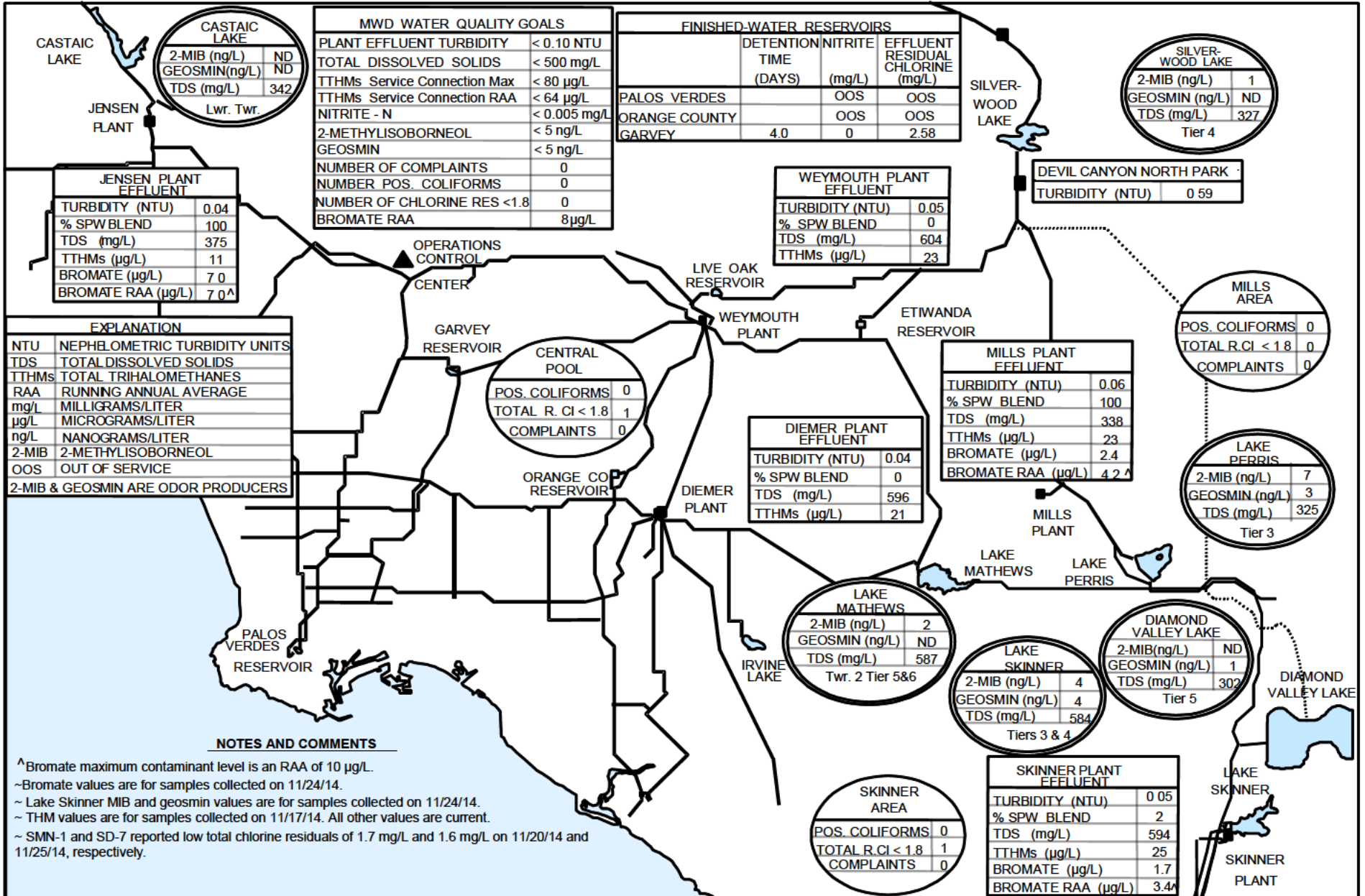
DTX-1128

Printed On: 11/26/2014 1:50:48 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, December 03, 2014

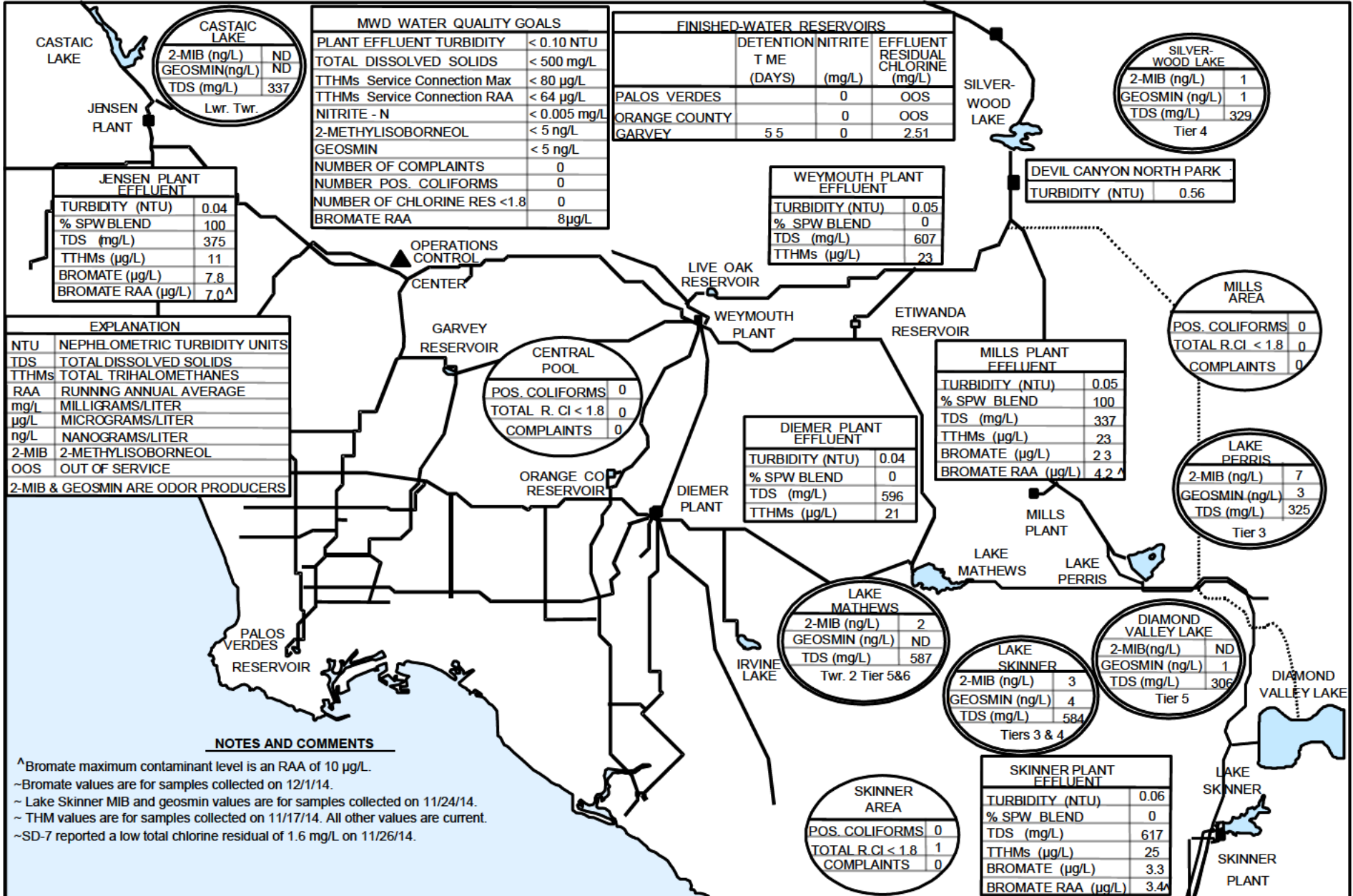
DTX-1128

Printed On: 12/3/2014 8:32:24 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Wednesday, December 17, 2014

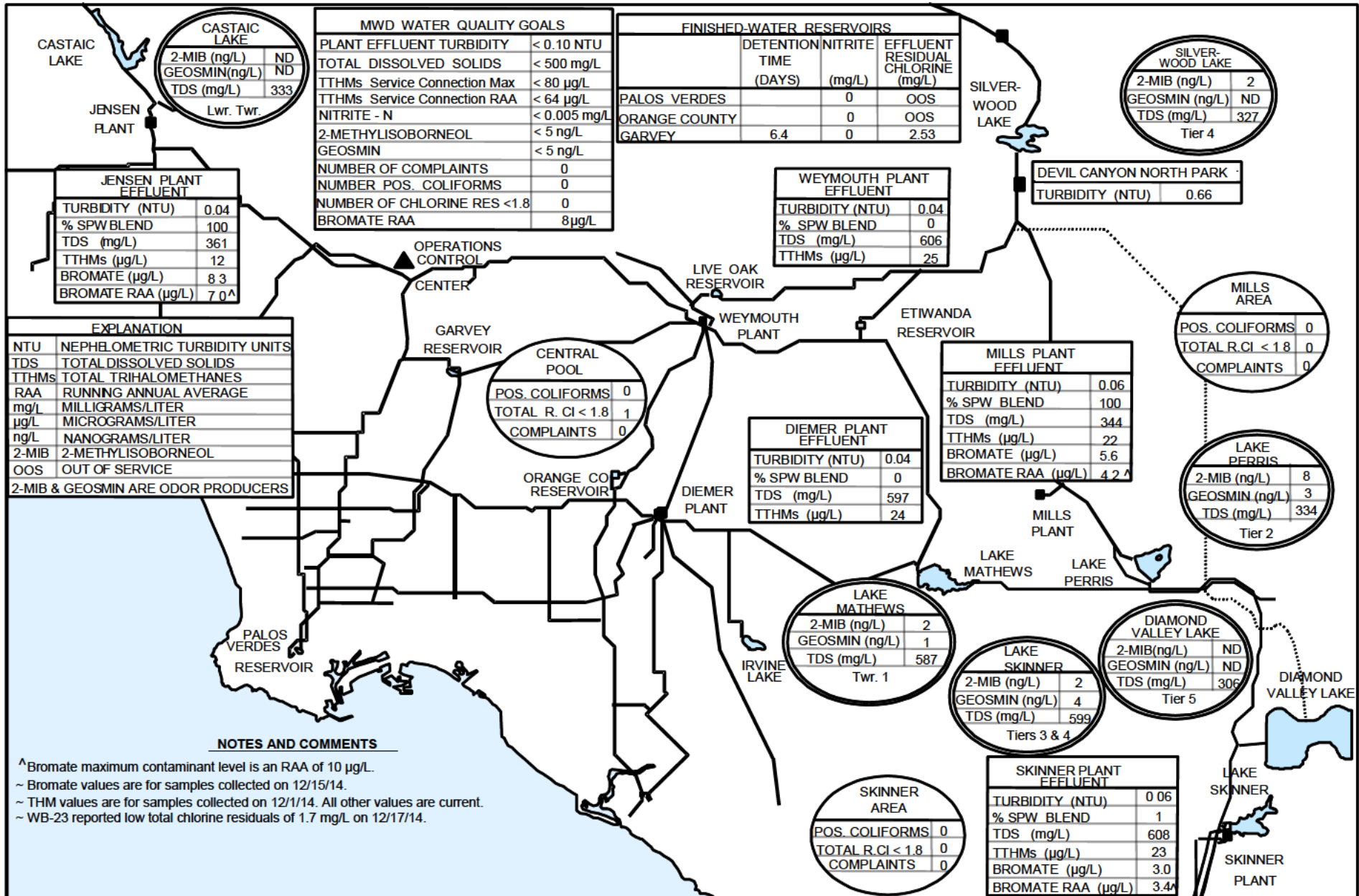
DTX-1128

Printed On: 12/19/2014 7:39:49 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

Weekly Water Quality System Status

Friday, December 26, 2014

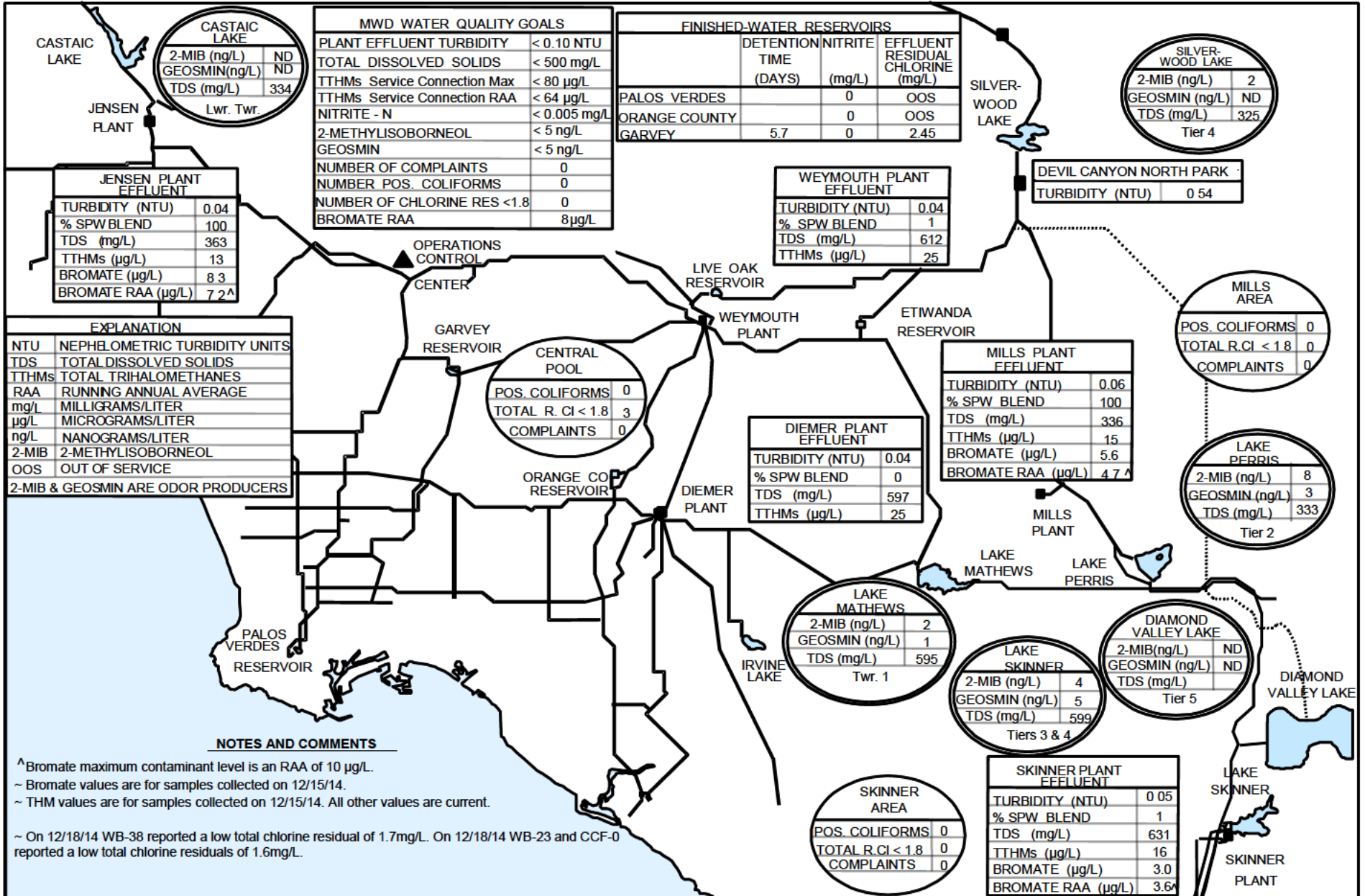
DTX-1128

Printed On: 12/26/2014 11:16:13 AM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

700 North Alameda Street

Los Angeles, CA, 90012-2944

INVOICE**Billed To:**

San Diego County Water Authority

San Diego County
Water Authority**Service Address**4677 Overland Avenue
San Diego, Ca. 92123-1233

January 2004	Page No. 1 of 1
Mailed: 02/10/2004	Due Date: 03/30/2004
Invoice Number: 4568	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	16,430.8
Total Water Untreated Delivered	38,243.3

SALES		Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	41,824.5	\$73.00	\$3,053,188.50
	System Access Rate	41,824.5	\$163.00	\$6,817,393.50
	Water Stewardship Rate	41,824.5	\$30.00	\$1,254,735.00
	System Power Rate	41,824.5	\$60.00	\$2,509,470.00
	Treatment Surcharge	16,430.8	\$92.00	\$1,511,633.60
Adj. Full Service Prior Rates	Treated	-8,349.1		(\$2,590,432.80)
	Untreated	-14,375.2		(\$4,686,315.20)
IAWP	Treated	6,010.2		\$1,766,998.80
	Untreated	756.3		\$178,486.80
Seasonal Long Term	Untreated	2,426.9		\$565,467.70
SUBTOTAL				\$10,380,625.90

WATER MANAGEMENT	Volume (AF)	Total (\$)
Local Resource Programs	847.6	(\$202,850.30)
SUBTOTAL		(\$202,850.30)

EXCHANGES, WHEELING, AND OTHER DELIVERIES		
Tijuana Emergency Deliveries and Losses	351.1	\$120,539.65
IID San Diego Exchange UnTreated	1,666.6	\$421,649.80
SUBTOTAL		\$542,189.45

OTHER CHARGES AND CREDITS		
Conservation Credit		(\$609,910.00)
Tier 2 Surcharge	-20,724.3	\$81.00 (\$1,678,668.30)
Miscellaneous Debit/Credit (See Detail)		(\$9,883,853.97)
SUBTOTAL		(\$12,272,432.27)

ADDITIONAL INFORMATION	Volume (AF)	Tier1 %	Peak Day	Flow (CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,338,035.2			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	567,902.4			
Tier 1 Annual Limit (For Current Year)	500,705.3			
Tier 1 YTD Deliveries (For Current Year)	41,824.5	8.0		
Requested Capacity				1,296.0
Annual Peak Flow			1/30/2004	1,023.9

MWD2010-00274652

Agency Name
San Diego County Water Authority

Invoice No. 4568
Rev. 0
Bill Period January 2004
Page No. 1 of 1
Mailed On 02-10-04

Due On
~~03-30-04~~

INVOICE TOTAL

Volume AF

31,492.3

Amount Now Due

-\$1,552,467.22



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4568	0	January 2004	1 of 7	02-10-04	03-30-04

Meter No SD-01A

Treated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	Constant 1,000	Previous Reading 14653310	Current Reading 14772943	Volume (CU. FT) 118633000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	2,746.4	200,487.20
System Access Rate	163.00	2,746.4	447,663.20
Water Stewardship Rate	30.00	2,746.4	82,392.00
System Power Rate	60.00	2,746.4	164,784.00
Treatment Surcharge	92.00	2,746.4	252,668.80
Delivery Subtotal		2,746.4	1,147,895.20
SD-01A Total		2,746.4	1,147,895.20

Meter No SD-01B

Treated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	Constant 1,000	Previous Reading 14248138	Current Reading 14367489	Volume (CU. FT) 119351000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	2,739.9	200,012.70
System Access Rate	163.00	2,739.9	446,603.70
Water Stewardship Rate	30.00	2,739.9	82,197.00
System Power Rate	60.00	2,739.9	164,394.00
Treatment Surcharge	92.00	2,739.9	252,070.80
Delivery Subtotal		2,739.9	1,145,278.20
SD-01B Total		2,739.9	1,145,278.20

Meter No SD-02

Treated Domestic w/o Rainbow Glen Rd.	Constant 100	Previous Reading 12448214	Current Reading 12575500	Volume (CU. FT) 12728800	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	292.2	21,330.60
System Access Rate	163.00	292.2	47,628.60
Water Stewardship Rate	30.00	292.2	8,766.00
System Power Rate	60.00	292.2	17,532.00
Treatment Surcharge	92.00	292.2	26,882.40
Jan 2004, meter under 10% flow Tier 1 supply rate	73.00	1.7	124.10
Jan 2004, meter under 10% flow System access rate	163.00	1.7	277.10
Jan 2004, meter under 10% flow Water stewardship rate	30.00	1.7	51.00
Jan 2004, meter under 10% flow System power rate	60.00	1.7	102.00

Agency Name
San Diego County Water Authority

Invoice No. Rev. Bill Period
4568 0 January 2004

Page No. Mailed On Due On
2 of 7 02-10-04 03-30-04

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Jan 2004, meter under 10% flow Treatment surcharge	92.00	1.7	156.40
Delivery Subtotal		293.9	122,850.20
SD-02 Total		293.9	122,850.20

Meter No SD-03						
Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.	
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	40666288	41407004	740716000	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	17,004.5	1,241,328.50
System Access Rate	163.00	17,004.5	2,771,733.50
Water Stewardship Rate	30.00	17,004.5	510,135.00
System Power Rate	60.00	17,004.5	1,020,270.00
Delivery Subtotal		17,004.5	5,543,467.00
SD-03 Total		17,004.5	5,543,467.00

Meter No SD-05						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.	
s/o Reche Rd. w/o Wilt Rd.	100	2468109	2601780	13367100	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	306.9	22,403.70
System Access Rate	163.00	306.9	50,024.70
Water Stewardship Rate	30.00	306.9	9,207.00
System Power Rate	60.00	306.9	18,414.00
Treatment Surcharge	92.00	306.9	28,234.80
Delivery Subtotal		306.9	128,284.20
SD-05 Total		306.9	128,284.20

Meter No SD-07						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.	
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	78176064	78595184	419120000	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	9,621.7	702,384.10
System Access Rate	163.00	9,621.7	1,568,337.10
Water Stewardship Rate	30.00	9,621.7	288,651.00
System Power Rate	60.00	9,621.7	577,302.00
Treatment Surcharge	92.00	9,621.7	885,196.40
Delivery Subtotal		9,621.7	4,021,870.60

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2003 adj full service to agr	408.00	-43.1	-17,584.80
Nov 2003 adj full service to agr (Oceanside)	294.00	43.1	12,671.40
Nov 2003 adj full service to agr	408.00	-3.3	-1,346.40
Nov 2003 adj full service to agr (Padre Dam)	294.00	3.3	970.20
Nov 2003 adj full service to agr	408.00	-57.6	-23,500.80
Nov 2003 adj full service to agr (Rincon)	294.00	57.6	16,934.40
Nov 2003 adj full service to agr	408.00	-2,322.9	-947,743.20
Nov 2003 adj full service to agr (Valley Center)	294.00	2,322.9	682,932.60
Dec 2003 adj full service to agr	408.00	-63.1	-25,744.80
Dec 2003 adj full service to agr (Carlsbad Municipal)	294.00	63.1	18,551.40

Agency Name
San Diego County Water Authority

Invoice No. 4568 Rev. 0 Bill Period January 2004

Page No. 3 of 7 Mailed On 02-10-04 Due On 03-30-04

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2003 adj full service to agr	408.00	-518.9	-211,711.20
Dec 2003 adj full service to agr (Fallbrook)	294.00	518.9	152,556.60
Dec 2003 adj full service to agr	408.00	-65.9	-26,987.20
Dec 2003 adj full service to agr (Oceanside)	294.00	65.9	19,374.80
Dec 2003 adj full service to agr	408.00	-62.1	-25,336.80
Dec 2003 adj full service to agr (Olivenhain)	294.00	62.1	18,257.40
Dec 2003 adj full service to agr	408.00	-3.9	-1,591.20
Dec 2003 adj full service to agr (Otay)	294.00	3.9	1,146.60
Dec 2003 adj full service to agr	408.00	-179.3	-73,154.40
Dec 2003 adj full service to agr (Padre Dam)	294.00	179.3	52,714.20
Dec 2003 adj full service to agr	408.00	-98.8	-40,310.40
Dec 2003 adj full service to agr (Ramona)	294.00	98.8	29,047.20
Dec 2003 adj full service to agr	408.00	-55.9	-22,807.20
Dec 2003 adj full service to agr (Rincon)	294.00	55.9	16,434.80
Dec 2003 adj full service to agr	408.00	-1.3	-530.40
Dec 2003 adj full service to agr (City of San Diego)	294.00	1.3	382.20
Dec 2003 adj full service to agr	408.00	-2.2	-897.60
Dec 2003 adj full service to agr (Santa Fe Irrigation)	294.00	2.2	648.80
Dec 2003 adj full service to agr	408.00	-181.1	-73,888.80
Dec 2003 adj full service to agr (Vallecitos)	294.00	181.1	53,243.40
Dec 2003 adj full service to agr	408.00	-2,161.7	-881,973.60
Dec 2003 adj full service to agr (Valley Center)	294.00	2,161.7	635,539.80
Dec 2003 adj full service to agr	408.00	-19.1	-7,792.80
Dec 2003 adj full service to agr (Vista)	294.00	19.1	5,615.40
Dec 2003 adj full service to agr	408.00	-170.0	-69,360.00
Dec 2003 adj full service to agr (Yuima)	294.00	170.0	49,980.00
Dec 2003 adj from full service to tijuana delivery	408.00	-338.9	-138,271.20
Adjustment Subtotal		-338.9	-823,434.00
SD-07 Total		9,282.8	3,198,436.60

Meter No SD-08

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
n/o Red Mtn. n/o Mission Rd.	100	22405234	22588452	18321800	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	420.6	30,703.80
System Access Rate	163.00	420.6	68,557.80
Water Stewardship Rate	30.00	420.6	12,618.00
System Power Rate	60.00	420.6	25,236.00
Treatment Surcharge	92.00	420.6	38,695.20
Delivery Subtotal		420.6	175,810.80
SD-08 Total		420.6	175,810.80

Meter No SD-09

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
w/o Rainbow Glen. Rd. n/o Red Mtn.	100	4680498	4811795	13129700	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	301.4	22,002.20
System Access Rate	163.00	301.4	49,128.20
Water Stewardship Rate	30.00	301.4	9,042.00
System Power Rate	60.00	301.4	18,084.00
Treatment Surcharge	92.00	301.4	27,728.80
Delivery Subtotal		301.4	125,985.20

Agency Name
San Diego County Water Authority

Invoice No. 4568 Rev. 0 Bill Period January 2004

Page No. 4 of 7 Mailed On 02-10-04 Due On 03-30-04

SD-09 Total 301.4 125,985.20

Meter No SD-11

Untreated Domestic e/o Wilt Rd. n/o Dos Ninos Ave.	Constant 10,000	Previous Reading 9082849	Current Reading 9175385	Volume (CU. FT) 925160000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	21,238.8	1,550,432.40
System Access Rate	163.00	21,238.8	3,461,924.40
Water Stewardship Rate	30.00	21,238.8	637,164.00
System Power Rate	60.00	21,238.8	1,274,328.00
Delivery Subtotal		21,238.8	6,923,848.80

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2003 adj full service to surface storage	326.00	-500.0	-163,000.00
Nov 2003 adj full service to agr	326.00	-125.1	-40,782.60
Nov 2003 adj full service to agr (Oceanside)	236.00	125.1	29,523.60
Nov 2003 adj full service to agr	326.00	-39.9	-13,007.40
Nov 2003 adj full service to agr (Poway)	236.00	39.9	9,416.40
Nov 2003 adj full service to surface storage voided	326.00	1,102.0	359,252.00
Nov 2003 adj full service to surface storage	326.00	-1,791.0	-583,866.00
Nov 2003 adj full service to surface storage	326.00	-7,942.0	-2,589,092.00
Dec 2003 adj full service to agr	326.00	-311.8	-101,646.80
Dec 2003 adj full service to agr (Escondido)	236.00	311.8	73,584.80
Dec 2003 adj full service to agr	326.00	-80.8	-26,340.80
Dec 2003 adj full service to agr (Oceanside)	236.00	80.8	19,068.80
Dec 2003 adj full service to agr	326.00	-27.7	-9,030.20
Dec 2003 adj full service to agr (Olivenhain)	236.00	27.7	6,537.20
Dec 2003 adj full service to agr	326.00	-137.4	-44,792.40
Dec 2003 adj full service to agr (Ramona)	236.00	137.4	32,426.40
Dec 2003 adj full service to agr	326.00	-11.5	-3,749.00
Dec 2003 adj full service to agr (City of San Diego)	236.00	11.5	2,714.00
Dec 2003 adj full service to agr	326.00	-5.0	-1,630.00
Dec 2003 adj full service to agr (Santa Fe Irrigation)	236.00	5.0	1,180.00
Dec 2003 adj full service to agr	326.00	-17.1	-5,574.60
Dec 2003 adj full service to agr (Vista)	236.00	17.1	4,035.60
Dec 2003 adj full service to sss rlds	326.00	-2,426.9	-791,169.40
Dec 2003 adj full service to sss rlds Ing (Sweetwater)	233.00	2,426.9	565,467.70
Dec 2003 adj full service to surface storage voided	326.00	5,705.0	1,859,830.00
Dec 2003 adj full service to surface storage	326.00	-6,148.0	-2,004,248.00
Dec 2003 adj full service to surface storage	326.00	-1,618.0	-527,468.00
Jan 2004 - iid-sd exchange	326.00	-1,666.6	-543,311.60
Jan 2004 - iid-sd exchange (San Diego CWA)	253.00		421,649.80
Jan 2004 adj full service to surface storage	326.00	-11,183.0	-3,645,658.00
Adjustment Subtotal		-24,041.6	-7,709,680.50
SD-11 Total		-2,802.8	-785,831.70

Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jan 2004 lppds contribution	250.00	223.2	-55,800.00
Adjustment Subtotal		223.2	-55,800.00
SD-DS1 Total		223.2	-55,800.00

Agency Name
San Diego County Water Authority

Invoice No. 4568 Rev. 0 Bill Period January 2004

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Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
JAN 2004 GRP	437.00	170.0	74,290.00
JAN 2004 GRP	687.00		-116,790.00
Adjustment Subtotal		170.0	-42,500.00
SD-GRP1 Total		170.0	-42,500.00

Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2003 lrp contribution	250.00	20.5	-5,125.00
Adjustment Subtotal		20.5	-5,125.00
SD-RCL1 Total		20.5	-5,125.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
No Address 1		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2003 contribution	225.00	158.9	-35,752.50
Adjustment Subtotal		158.9	-35,752.50
SD-RCL10 Total		158.9	-35,752.50

Meter No SD-RCL12

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2003 lrp contribution	250.00	40.0	-10,000.00
Adjustment Subtotal		40.0	-10,000.00
SD-RCL12 Total		40.0	-10,000.00

Meter No SD-RCL13

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jan 2004 contribution	250.00	49.1	-12,275.00
Adjustment Subtotal		49.1	-12,275.00
SD-RCL13 Total		49.1	-12,275.00

Agency Name
San Diego County Water Authority

Invoice No. 4568 Rev. 0 Bill Period January 2004

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Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jan 2004 contribution	150.00	23.5	-3,525.00
Adjustment Subtotal		23.5	-3,525.00
SD-RCL15 Total		23.5	-3,525.00

Meter No SD-RCL5

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
DEC 2003 LPPRE	113.00	4.8	542.40
DEC 2003 LPPRE	267.00		-1,281.60
JAN 2004 LPPRE	113.00	2.9	327.70
JAN 2004 LPPRE	267.00		-774.30
Adjustment Subtotal		7.7	-1,185.80
SD-RCL5 Total		7.7	-1,185.80

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2003 lrp contribution	250.00	105.0	-26,250.00
Adjustment Subtotal		105.0	-26,250.00
SD-RCL6 Total		105.0	-26,250.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2003 lrp contribution	210.00	49.7	-10,437.00
Adjustment Subtotal		49.7	-10,437.00
SD-RCL8 Total		49.7	-10,437.00

Meter No SDTJ-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
San Diego-Tijuana	1	27934553	27934553	0	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
System Access Rate METER CORRECTION, DEC 2003	141.00	325.7	45,923.70
Water Stewardship Rate METER CORRECTION, DEC 2003	23.00	325.7	7,491.10
Treatment Surcharge METER CORRECTION, DEC 2003	82.00	325.7	26,707.40
Variable Power Rate METER CORRECTION, DEC 2003	97.32	325.7	31,697.12
Delivery Subtotal		325.7	111,819.32

Agency Name
San Diego County Water Authority

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
OTAY Loss for Tijuana Delivery (Otay)	343.32	9.8	3,364.54
SD Loss for Tijuana Delivery (San Diego CWA)	343.32	3.4	1,167.29
MWD Loss for Tijuana Delivery	343.32	12.2	4,188.50
Adjustment Subtotal		25.4	8,720.33
SDTJ-01A Total		351.1	120,539.65

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag.# 29100	-448,080.00
Conservation Ag.# 35244	-14,100.00
Conservation Ag.# 52978	-147,730.00
MiscTrtdAdj SDTJ-01A var pwr rate s/b \$93.80 vs. \$94.58(339.7AF@\$.78/AF)11/03 del	-264.97
FY 2002/03 Revenue Refund	-9,983,589.00
Tier 2 Surcharge	-1,678,668.30

VOLUME TOTAL	INVOICE TOTAL
31,492.3	\$-1,552,467.22

This invoice was printed on 2/10/2004 at 6:07:11AM

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

700 North Alameda Street

Los Angeles, CA, 90012-2944

INVOICE**Billed To:**

San Diego County Water Authority

San Diego County
Water Authority**Service Address**4677 Overland Avenue
San Diego, Ca. 92123-1233

February 2004

Page No. 1 of 2

Mailed: 03/10/2004

Due Date: 04/30/2004

Invoice Number: 4596

Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES

	Volume (AF)
Total Water Treated Delivered	9,318.5
Total Water Untreated Delivered	33,212.5

SALES

	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)	
Full Service	Tier 1 Supply Rate	27,211.0	\$73.00	\$1,986,403.00	
	System Access Rate	27,211.0	\$163.00	\$4,435,393.00	
	Water Stewardship Rate	27,211.0	\$30.00	\$816,330.00	
	System Power Rate	27,211.0	\$60.00	\$1,632,660.00	
	Treatment Surcharge	4,453.6	\$92.00	\$409,731.20	
Adjust Full Service Prior Rates	Certification(s) for 200301 to 200312 for Domestic	Treated	-1,581.2	\$408.00	(\$645,129.60)
		Untreated	-439.2	\$326.00	(\$143,179.20)
IAWP		Treated	6,251.1		\$1,886,472.40
		Untreated	1,254.6		\$296,085.60
SUBTOTAL				\$10,674,766.40	

WATER MANAGEMENT

	Volume (AF)	Total (\$)
Local Resource Programs	1,151.7	(\$275,128.40)
SUBTOTAL		(\$275,128.40)

EXCHANGES, WHEELING, AND OTHER DELIVERIES

Tijuana Emergency Deliveries and Losses		
IID San Diego Exchange UnTreated	1,666.7	\$421,675.10
		\$421,675.10

OTHER CHARGES AND CREDITS

	Rate (\$ /AF)	
Conservation Credit		(\$224,859.50)
Tier 2 Surcharge for: 2003	-2,020.4	\$81.00
SUBTOTAL		(\$388,811.90)

ADDITIONAL INFORMATION

	Volume (AF)	Tier1 %	Peak Day	Flow (CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,338,035.2			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	593,093.0			
Tier 1 Annual Limit (For Current Year)	500,705.3			
Tier 1 YTD Deliveries (For Current Year)	69,023.3	14.0		
Tier 1 Current Month Deliveries	27,211.0			
Requested Capacity				1,296.0
Annual Peak Flow			1/30/2004	1,023.9

MWD2010-00274661

Agency Name
San Diego County Water Authority

Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
4596	0	February 2004	2 of 2	03-10-04	04-30-04

INVOICE TOTAL

Volume AF

33,848.0

Amount Now Due

\$10,432,701.20



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4596	0	February 2004	1 of 6	03-10-04	04-30-04

Meter No SD-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	14772943	14842914	69971000	Unbundled

--- DELIVERIES ---			
	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	1,606.3	117,259.90
System Access Rate	163.00	1,606.3	261,826.90
Water Stewardship Rate	30.00	1,606.3	48,189.00
System Power Rate	60.00	1,606.3	96,378.00
Treatment Surcharge	92.00	1,606.3	147,779.60
Delivery Subtotal		1,606.3	671,433.40
SD-01A Total		1,606.3	671,433.40

Meter No SD-01B

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	14367489	14437856	70367000	Unbundled

--- DELIVERIES ---			
	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	1,615.4	117,924.20
System Access Rate	163.00	1,615.4	263,310.20
Water Stewardship Rate	30.00	1,615.4	48,462.00
System Power Rate	60.00	1,615.4	96,924.00
Treatment Surcharge	92.00	1,615.4	148,616.80
Delivery Subtotal		1,615.4	675,237.20
SD-01B Total		1,615.4	675,237.20

Meter No SD-02

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
w/o Rainbow Glen Rd.	100	12575500	12630185	5466500	Unbundled

--- DELIVERIES ---			
	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	125.5	9,161.50
System Access Rate	163.00	125.5	20,456.50
Water Stewardship Rate	30.00	125.5	3,765.00
System Power Rate	60.00	125.5	7,530.00
Treatment Surcharge	92.00	125.5	11,546.00
Feb 2004, meter under 10% flow Tier 1 supply rate	73.00	1.4	102.20
Feb 2004, meter under 10% flow System access rate	163.00	1.4	228.20
Feb 2004, meter under 10% flow Water stewardship rate	30.00	1.4	42.00
Feb 2004, meter under 10% flow System power rate	60.00	1.4	84.00

Agency Name
San Diego County Water Authority

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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Feb 2004, meter under 10% flow Treatment surcharge	92.00	1.4	128.80
Delivery Subtotal		126.9	53,044.20
SD-02 Total		126.9	53,044.20

Meter No SD-03

Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	41407004	42016800	609796000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	13,999.0	1,021,927.00
System Access Rate	163.00	13,999.0	2,281,837.00
Water Stewardship Rate	30.00	13,999.0	419,970.00
System Power Rate	60.00	13,999.0	839,940.00
Delivery Subtotal		13,999.0	4,563,674.00
SD-03 Total		13,999.0	4,563,674.00

Meter No SD-05

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
s/o Reche Rd. w/o Wilt Rd.	100	2601780	2830278	2849800	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	65.4	4,774.20
System Access Rate	163.00	65.4	10,660.20
Water Stewardship Rate	30.00	65.4	1,962.00
System Power Rate	60.00	65.4	3,924.00
Treatment Surcharge	92.00	65.4	6,016.80
Delivery Subtotal		65.4	27,337.20
SD-05 Total		65.4	27,337.20

Meter No SD-07

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	78595184	78834824	239840000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	5,501.4	401,602.20
System Access Rate	163.00	5,501.4	896,728.20
Water Stewardship Rate	30.00	5,501.4	165,042.00
System Power Rate	60.00	5,501.4	330,084.00
Treatment Surcharge	92.00	5,501.4	506,128.80
Delivery Subtotal		5,501.4	2,299,585.20

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2003 adj full service to surface storage	408.00	-102.6	-41,860.80
Dec 2003 adj full service to agr	408.00	-1,386.2	-565,569.60
Dec 2003 adj full service to agr (Rainbow)	294.00	1,386.2	407,542.80
Dec 2003 adj full service to surface storage	408.00	-92.4	-37,699.20
Jan 2004 adj full service to agr	418.00	-60.6	-25,330.80
Jan 2004 adj full service to agr (Carlsbad Municipal)	304.00	60.6	18,422.40
Jan 2004 adj full service to agr	418.00	-487.6	-203,816.80
Jan 2004 adj full service to agr (Fallbrook)	304.00	487.6	148,230.40
Jan 2004 adj full service to agr	418.00	-40.1	-16,761.80
Jan 2004 adj full service to agr (Oceanside)	304.00	40.1	12,190.40

Agency Name
San Diego County Water Authority

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jan 2004 adj full service to agr	418.00	-30.8	-12,874.40
Jan 2004 adj full service to agr (Olivenhain)	304.00	30.8	9,363.20
Jan 2004 adj full service to agr	418.00	-3.5	-1,463.00
Jan 2004 adj full service to agr (Otay)	304.00	3.5	1,064.00
Jan 2004 adj full service to agr	418.00	-1,305.6	-545,740.80
Jan 2004 adj full service to agr (Rainbow)	304.00	1,305.6	396,902.40
Jan 2004 adj full service to agr	418.00	-118.9	-48,864.20
Jan 2004 adj full service to agr (Ramona)	304.00	118.9	35,537.60
Jan 2004 adj full service to agr	418.00	-0.2	-83.60
Jan 2004 adj full service to agr (City of San Diego)	304.00	0.2	60.80
Jan 2004 adj full service to agr	418.00	-0.1	-41.80
Jan 2004 adj full service to agr (Santa Fe Irrigation)	304.00	0.1	30.40
Jan 2004 adj full service to agr	418.00	-164.9	-68,928.20
Jan 2004 adj full service to agr (Vallecitos)	304.00	164.9	50,129.80
Jan 2004 adj full service to agr	418.00	-2,506.0	-1,047,508.00
Jan 2004 adj full service to agr (Valley Center)	304.00	2,506.0	761,824.00
Jan 2004 adj full service to agr	418.00	-15.1	-6,311.80
Jan 2004 adj full service to agr (Vista)	304.00	15.1	4,590.40
Jan 2004 adj full service to agr	418.00	-133.5	-55,803.00
Jan 2004 adj full service to agr (Yuima)	304.00	133.5	40,584.00
Adjustment Subtotal		-195.0	-792,185.40
SD-07 Total		5,306.4	1,507,399.80

Meter No SD-08

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
n/o Red Mtn. n/o Mission Rd.	100	22588452	22700512	11206000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	257.3	18,782.90
System Access Rate	163.00	257.3	41,939.90
Water Stewardship Rate	30.00	257.3	7,719.00
System Power Rate	60.00	257.3	15,438.00
Treatment Surcharge	92.00	257.3	23,671.60
Delivery Subtotal		257.3	107,551.40
SD-08 Total		257.3	107,551.40

Meter No SD-09

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
w/o Rainbow Glen. Rd. n/o Red Mtn.	100	4811795	4875310	6351500	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	145.8	10,643.40
System Access Rate	163.00	145.8	23,765.40
Water Stewardship Rate	30.00	145.8	4,374.00
System Power Rate	60.00	145.8	8,748.00
Treatment Surcharge	92.00	145.8	13,413.60
Delivery Subtotal		145.8	60,944.40
SD-09 Total		145.8	60,944.40

Meter No SD-11

Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	10,000	9175365	9259059	836940000	Unbundled

Agency Name
San Diego County Water Authority

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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	19,213.5	1,402,585.50
System Access Rate	163.00	19,213.5	3,131,800.50
Water Stewardship Rate	30.00	19,213.5	576,405.00
System Power Rate	60.00	19,213.5	1,152,810.00
Delivery Subtotal		19,213.5	6,263,601.00

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2003 adj full service to agr	326.00	-575.6	-187,645.60
Nov 2003 adj full service to agr (Escondido)	236.00	575.6	135,841.60
Nov 2003 adj full service to surface storage voided	326.00	7,942.0	2,589,092.00
Nov 2003 adj full service to surface storage	326.00	-7,839.4	-2,555,644.40
Dec 2003 adj full service to agr	326.00	-58.6	-19,103.60
Dec 2003 adj full service to agr (Poway)	236.00	58.6	13,829.60
Dec 2003 adj full service to surface storage voided	326.00	1,618.0	527,468.00
Dec 2003 adj full service to surface storage	326.00	-1,525.6	-497,345.60
Jan 2004 adj full service to agr	326.00	-264.6	-86,259.60
Jan 2004 adj full service to agr (Escondido)	236.00	264.6	62,445.60
Jan 2004 adj full service to agr	326.00	-95.4	-31,100.40
Jan 2004 adj full service to agr (Oceanside)	236.00	95.4	22,514.40
Jan 2004 adj full service to agr	326.00	-44.7	-14,572.20
Jan 2004 adj full service to agr (Olivenhain)	236.00	44.7	10,549.20
Jan 2004 adj full service to agr	326.00	-179.0	-58,354.00
Jan 2004 adj full service to agr (Ramona)	236.00	179.0	42,244.00
Jan 2004 adj full service to agr	326.00	-9.3	-3,031.80
Jan 2004 adj full service to agr (City of San Diego)	236.00	9.3	2,194.80
Jan 2004 adj full service to agr	326.00	-13.5	-4,401.00
Jan 2004 adj full service to agr (Santa Fe Irrigation)	236.00	13.5	3,186.00
Jan 2004 adj full service to agr	326.00	-13.9	-4,531.40
Jan 2004 adj full service to agr (Vista)	236.00	13.9	3,280.40
Jan 2004 adj full service to surface storage voided	326.00	11,183.0	3,645,658.00
Jan 2004 adj full service to surface storage	326.00	-10,260.0	-3,344,760.00
FEB 2004 Exchange from IID to SD	326.00	-1,666.7	-543,344.20
FEB 2004 Exchange from IID to SD (San Diego CWA)	253.00		421,675.10
Feb 2004 adj full service to surface storage	326.00	-9,091.0	-2,963,666.00
Adjustment Subtotal		-9,639.7	-2,833,791.10
SD-11 Total		9,573.8	3,429,819.90

Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Feb 2004 lppds contribution	250.00	242.8	-60,700.00
Adjustment Subtotal		242.8	-60,700.00
SD-DS1 Total		242.8	-60,700.00

Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
FEB 2004 GRP	437.00	266.9	116,635.30
FEB 2004 GRP	687.00		-183,360.30
Adjustment Subtotal		266.9	-66,725.00

Agency Name
San Diego County Water Authority

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SD-GRP1 Total 266.9 -66,725.00

Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jan 2004 lrp contribution	250.00	25.6	-6,400.00
Feb 2004 lrp contribution	250.00	15.6	-3,900.00
Adjustment Subtotal		41.2	-10,300.00

SD-RCL1 Total 41.2 -10,300.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
No Address 1		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jan 2004 contribution	225.00	306.6	-68,985.00
Adjustment Subtotal		306.6	-68,985.00

SD-RCL10 Total 306.6 -68,985.00

Meter No SD-RCL12

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jan 2004 lrp contribution	250.00	27.1	-6,775.00
Feb 2004 lrp contribution	250.00	34.6	-8,650.00
Adjustment Subtotal		61.7	-15,425.00

SD-RCL12 Total 61.7 -15,425.00

Meter No SD-RCL13

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Feb 2004 contribution	250.00	46.4	-11,600.00
Adjustment Subtotal		46.4	-11,600.00

SD-RCL13 Total 46.4 -11,600.00

Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Feb 2004 contribution	150.00	24.7	-3,705.00
Adjustment Subtotal		24.7	-3,705.00

Agency Name
San Diego County Water Authority

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SD-RCL15 Total 24.7 -3,705.00

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jan 2004 lrp contribution	250.00	101.3	-25,325.00
Adjustment Subtotal		101.3	-25,325.00
SD-RCL6 Total		101.3	-25,325.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jan 2004 lrp contribution	210.00	55.5	-11,855.00
Adjustment Subtotal		55.5	-11,855.00
SD-RCL8 Total		55.5	-11,855.00

Meter No SD-RCL9

Reclaimed	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
FEB 2004 LPPRE	113.00	4.6	519.80
FEB 2004 LPPRE	267.00		-1,228.20
Adjustment Subtotal		4.6	-708.40
SD-RCL9 Total		4.6	-708.40

Meter No SDTJ-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (CU. FT)	Rate Desc.
San Diego-Tijuana	1	27934553	27934553	0	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Delivery Subtotal		0.0	0.00
SDTJ-01A Total		0.0	0.00

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag.# 35244	-14,300.00
Conservation Ag.# 39099	-19,529.50
Conservation Ag.# 39103	-191,130.00
Tier 2 Surcharge	-163,852.40

VOLUME TOTAL	INVOICE TOTAL
33,848.0	\$10,432,701.20

This invoice was printed on 3/8/2004 at 12:02:21PM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:
 San Diego County Water Authority



Service Address
 4677 Overland Avenue
 San Diego, Ca. 92123-1233

March 2004	Page No. 1 of 2
Mailed: 04/08/2004	Due Date: 05/28/2004
Invoice Number: 4624	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	20,027.3
Total Water Untreated Delivered	37,221.2

SALES	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	40,201.0	\$73.00	\$2,934,673.00
	System Access Rate	40,201.0	\$163.00	\$6,552,763.00
	Water Stewardship Rate	40,201.0	\$30.00	\$1,206,030.00
	System Power Rate	40,201.0	\$60.00	\$2,412,060.00
	Treatment Surcharge	17,347.7	\$92.00	\$1,595,988.40
Adjust Full Service Prior Rates				
Certification(s) for 200301 to 200312 for Domestic	Treated	-15.8	\$408.00	(\$6,446.40)
Certification(s) for 199701 to 200212 for Domestic	Treated	-44.8	\$431.00	(\$19,308.80)
Certification(s) for 200301 to 200312 for Domestic	Untreated	-1,367.0	\$326.00	(\$445,642.00)
IAWP	Treated	2,740.2		\$832,414.80
	Untreated	424.2		\$100,111.20
SUBTOTAL				\$15,182,643.20

WATER MANAGEMENT	Volume (AF)	Total (\$)
Local Resource Programs	892.8	(\$214,858.00)
SUBTOTAL		(\$214,858.00)

EXCHANGES, WHEELING, AND OTHER DELIVERIES		
Tijuana Emergency Deliveries and Losses		
IID San Diego Exchange UnTreated	1,866.7	\$421,675.10
		\$421,675.10

OTHER CHARGES AND CREDITS	Rate (\$ /AF)	Total (\$)
Conservation Credit		(\$248,070.00)
Tier 2 Surcharge for: 2003	-1,382.8	\$81.00 (\$112,006.80)
SUBTOTAL		(\$358,076.80)

ADDITIONAL INFORMATION	Volume (AF)	Tier1 %	Peak Day	Flow(CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,338,035.2			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	631,911.2			
Tier 1 Annual Limit (For Current Year)	500,705.3			
Tier 1 YTD Deliveries (For Current Year)	109,224.3	22.0		
Tier 1 Current Month Deliveries	40,201.0			
Requested Capacity				1,296.0
Annual Peak Flow			3/30/2004	1,125.7

Agency Name
San Diego County Water Authority

Invoice No. 4624 Rev. 0 Bill Period March 2004 Page No. 2 of 2

Mailed On 04-08-04 Due On 05-28-04

DTX-1130

INVOICE TOTAL

Volume AF
42,830.6

Amount Now Due
\$15,011,383.50



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4624	0	March 2004	1 of 8	04-08-04	05-28-04

Meter No SD-01A						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	14842914	14962742	119828000	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	2,750.9	200,815.70
System Access Rate	163.00	2,750.9	448,396.70
Water Stewardship Rate	30.00	2,750.9	82,527.00
System Power Rate	60.00	2,750.9	165,054.00
Treatment Surcharge	92.00	2,750.9	253,082.80
Delivery Subtotal		2,750.9	1,149,876.20
SD-01A Total		2,750.9	1,149,876.20

Meter No SD-01B						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	14437856	14557541	119685000	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	2,747.6	200,574.80
System Access Rate	163.00	2,747.6	447,858.80
Water Stewardship Rate	30.00	2,747.6	82,428.00
System Power Rate	60.00	2,747.6	164,856.00
Treatment Surcharge	92.00	2,747.6	252,779.20
Delivery Subtotal		2,747.6	1,148,496.80
SD-01B Total		2,747.6	1,148,496.80

Meter No SD-02						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
w/o Rainbow Glen Rd.	100	12630165	12755033	12486800	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	286.7	20,929.10
System Access Rate	163.00	286.7	46,732.10
Water Stewardship Rate	30.00	286.7	8,601.00
System Power Rate	60.00	286.7	17,202.00
Treatment Surcharge	92.00	286.7	26,376.40
Mar 2004, meter under 10% flow Tier 1 supply rate	73.00	0.4	29.20
Mar 2004, meter under 10% flow System access rate	163.00	0.4	65.20
Mar 2004, meter under 10% flow Water stewardship rate	30.00	0.4	12.00
Mar 2004, meter under 10% flow System power rate	60.00	0.4	24.00

Agency Name
San Diego County Water Authority

Invoice No. 4624 Rev. 0 Bill Period March 2004

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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Mar 2004, meter under 10% flow Treatment surcharge	92.00	0.4	36.80
Delivery Subtotal		287.1	120,007.80
SD-02 Total		287.1	120,007.80

Meter No SD-03					
Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	42016800	42702488	685688000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	15,741.2	1,149,107.80
System Access Rate	163.00	15,741.2	2,565,815.80
Water Stewardship Rate	30.00	15,741.2	472,236.00
System Power Rate	60.00	15,741.2	944,472.00
Delivery Subtotal		15,741.2	5,131,631.20
SD-03 Total		15,741.2	5,131,631.20

Meter No SD-05					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
s/o Reche Rd. w/o Wilt Rd.	100	2630278	2655878	2559800	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	58.8	4,292.40
System Access Rate	163.00	58.8	9,584.40
Water Stewardship Rate	30.00	58.8	1,764.00
System Power Rate	60.00	58.8	3,528.00
Treatment Surcharge	92.00	58.8	5,409.60
Delivery Subtotal		58.8	24,578.40
SD-05 Total		58.8	24,578.40

Meter No SD-07					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	78834824	79425936	59112000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	13,570.1	990,617.30
System Access Rate	163.00	13,570.1	2,211,926.30
Water Stewardship Rate	30.00	13,570.1	407,103.00
System Power Rate	60.00	13,570.1	814,206.00
Treatment Surcharge	92.00	13,570.1	1,248,449.20
Delivery Subtotal		13,570.1	5,672,301.80

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2000 Adj Full Service to AGR	431.00	-4,288.9	-1,848,515.90
Jun 2000 Adj Full Service to AGR (Valley Center)	294.00	4,288.9	1,260,936.60
Jun 2000 Adj Full Service to AGR Voided	431.00	4,287.1	1,847,740.10
Jun 2000 Adj Full Service to AGR Voided (Valley Center)	294.00	-4,287.1	-1,280,407.40
Jul 2000 Adj Full Service to AGR Voided	431.00	4,696.0	2,023,976.00
Jul 2000 Adj Full Service to AGR Voided (Valley Center)	294.00	-4,696.0	-1,380,624.00
Jul 2000 Adj Full Service to AGR	431.00	-4,698.6	-2,025,096.60
Jul 2000 Adj Full Service to AGR (Valley Center)	294.00	4,698.6	1,381,388.40
Aug 2000 Adj Full Service to AGR Voided	431.00	5,157.2	2,222,753.20
Aug 2000 Adj Full Service to AGR Voided (Valley Center)	294.00	-5,157.2	-1,516,216.80

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4624	0	March 2004	3 of 8	04-08-04	05-28-04

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2000 Adj Full Service to AGR	431.00	-5,160.4	-2,224,132.40
Aug 2000 Adj Full Service to AGR (Valley Center)	294.00	5,160.4	1,517,157.60
Sep 2000 Adj Full Service to AGR	431.00	4,589.8	1,978,203.80
Sep 2000 Adj Full Service to AGR Voiced (Valley Center)	294.00	-4,589.8	-1,349,401.20
Sep 2000 Adj Full Service to AGR	431.00	-4,592.1	-1,979,195.10
Sep 2000 Adj Full Service to AGR (Valley Center)	294.00	4,592.1	1,350,077.40
Oct 2000 Adj Full Service to AGR Voiced	431.00	3,134.0	1,350,754.00
Oct 2000 Adj Full Service to AGR Voiced (Valley Center)	294.00	-3,134.0	-921,396.00
Oct 2000 Adj Full Service to AGR	431.00	-3,135.1	-1,351,228.10
Oct 2000 Adj Full Service to AGR (Valley Center)	294.00	3,135.1	921,719.40
Nov 2000 Adj Full Service to AGR Voiced	431.00	2,475.9	1,067,112.90
Nov 2000 Adj Full Service to AGR Voiced (Valley Center)	294.00	-2,475.9	-727,814.60
Nov 2000 Adj Full Service to AGR	431.00	-2,476.8	-1,067,500.80
Nov 2000 Adj Full Service to AGR (Valley Center)	294.00	2,476.8	728,179.20
Dec 2000 Adj Full Service to AGR Voiced	431.00	3,187.1	1,373,640.10
Dec 2000 Adj Full Service to AGR Voiced (Valley Center)	294.00	-3,187.1	-937,007.40
Dec 2000 Adj Full Service to AGR	431.00	-3,188.3	-1,374,157.30
Dec 2000 Adj Full Service to AGR (Valley Center)	294.00	3,188.3	937,360.20
Jan 2001 Adj Full Service to AGR Voiced	431.00	1,354.4	583,746.40
Jan 2001 Adj Full Service to AGR Voiced (Valley Center)	294.00	-1,354.4	-398,193.60
Jan 2001 Adj Full Service to AGR	431.00	-1,355.4	-584,177.40
Jan 2001 Adj Full Service to AGR (Valley Center)	294.00	1,355.4	398,487.60
May 2001 Adj Full Service to AGR Voiced	431.00	3,592.9	1,548,539.90
May 2001 Adj Full Service to AGR Voiced (Valley Center)	294.00	-3,592.9	-1,056,312.80
May 2001 Adj Full Service to AGR	431.00	-3,594.1	-1,549,057.10
May 2001 Adj Full Service to AGR (Valley Center)	294.00	3,594.1	1,056,665.40
Jun 2001 Adj Full Service to AGR Voiced	431.00	4,180.5	1,801,795.50
Jun 2001 Adj Full Service to AGR Voiced (Valley Center)	294.00	-4,180.5	-1,228,067.00
Jun 2001 Adj Full Service to AGR	431.00	-4,182.5	-1,802,657.50
Jun 2001 Adj Full Service to AGR (Valley Center)	294.00	4,182.5	1,229,655.00
Jul 2001 Adj Full Service to AGR Voiced	431.00	4,412.4	1,901,744.40
Jul 2001 Adj Full Service to AGR Voiced (Valley Center)	294.00	-4,412.4	-1,297,245.60
Jul 2001 Adj Full Service to AGR	431.00	-4,414.2	-1,902,520.20
Jul 2001 Adj Full Service to AGR (Valley Center)	294.00	4,414.2	1,297,774.80
Aug 2001 Adj Full Service to AGR Voiced	431.00	4,774.9	2,057,981.90
Aug 2001 Adj Full Service to AGR Voiced (Valley Center)	294.00	-4,774.9	-1,403,820.60
Aug 2001 Adj Full Service to AGR	431.00	-4,777.6	-2,059,145.60
Aug 2001 Adj Full Service to AGR (Valley Center)	294.00	4,777.6	1,404,614.40
Sep 2001 Adj Full Service to AGR Voiced	431.00	4,030.8	1,737,274.80
Sep 2001 Adj Full Service to AGR Voiced (Valley Center)	294.00	-4,030.8	-1,185,055.20
Sep 2001 Adj Full Service to AGR	431.00	-4,032.3	-1,737,921.30
Sep 2001 Adj Full Service to AGR (Valley Center)	294.00	4,032.3	1,185,496.20
Oct 2001 Adj Full Service to AGR Voiced	431.00	4,073.9	1,755,850.90
Oct 2001 Adj Full Service to AGR Voiced (Valley Center)	294.00	-4,073.9	-1,197,726.80
Oct 2001 Adj Full Service to AGR	431.00	-4,075.2	-1,756,411.20
Oct 2001 Adj Full Service to AGR (Valley Center)	294.00	4,075.2	1,198,108.80
Nov 2001 Adj Full Service to AGR Voiced	431.00	2,350.5	1,013,065.50
Nov 2001 Adj Full Service to AGR Voiced (Valley Center)	294.00	-2,350.5	-691,047.00
Nov 2001 Adj Full Service to AGR	431.00	-2,351.0	-1,013,281.00
Nov 2001 Adj Full Service to AGR (Valley Center)	294.00	2,351.0	691,194.00
Dec 2001 Adj Full Service to AGR Voiced	431.00	1,070.1	461,213.10
Dec 2001 Adj Full Service to AGR Voiced (Valley Center)	294.00	-1,070.1	-314,609.40
Dec 2001 Adj Full Service to AGR	431.00	-1,070.3	-461,299.30
Dec 2001 Adj Full Service to AGR (Valley Center)	294.00	1,070.3	314,668.20
Jan 2002 Adj Full Service to AGR Voiced	431.00	2,484.9	1,070,991.90
Jan 2002 Adj Full Service to AGR Voiced (Valley Center)	294.00	-2,484.9	-730,580.60
Jan 2002 Adj Full Service to AGR	431.00	-2,485.5	-1,071,250.50
Jan 2002 Adj Full Service to AGR (Valley Center)	294.00	2,485.5	730,737.00
Feb 2002 Adj Full Service to AGR Voiced	431.00	2,680.8	1,155,424.80
Feb 2002 Adj Full Service to AGR Voiced (Valley Center)	294.00	-2,680.8	-788,155.20
Feb 2002 Adj Full Service to AGR	431.00	-2,681.7	-1,155,812.70
Feb 2002 Adj Full Service to AGR (Valley Center)	294.00	2,681.7	788,419.80
Mar 2002 Adj Full Service to AGR Voiced	431.00	2,646.4	1,140,598.40

Agency Name
San Diego County Water Authority

Invoice No. 4624 Rev. 0 Bill Period March 2004

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2002 Adj Full Service to AGR (Valley Center)	294.00	-2,646.4	-778,041.60
Mar 2002 Adj Full Service to AGR	431.00	-2,647.3	-1,140,986.30
Mar 2002 Adj Full Service to AGR (Valley Center)	294.00	2,647.3	778,306.20
Apr 2002 Adj Full Service to AGR	431.00	2,930.7	1,263,131.70
Apr 2002 Adj Full Service to AGR (Valley Center)	294.00	-2,930.7	-861,625.80
Apr 2002 Adj Full Service to AGR	431.00	-2,932.1	-1,263,735.10
Apr 2002 Adj Full Service to AGR (Valley Center)	294.00	2,932.1	862,037.40
May 2002 Adj Full Service to AGR	431.00	3,836.6	1,653,574.60
May 2002 Adj Full Service to AGR (Valley Center)	294.00	-3,836.6	-1,127,960.40
May 2002 Adj Full Service to AGR	431.00	-3,838.5	-1,654,393.50
May 2002 Adj Full Service to AGR (Valley Center)	294.00	3,838.5	1,128,519.00
Jun 2002 Adj Full Service to AGR	431.00	4,284.3	1,846,533.30
Jun 2002 Adj Full Service to AGR (Valley Center)	294.00	-4,284.3	-1,259,584.20
Jun 2002 Adj Full Service to AGR	431.00	-4,285.8	-1,847,179.80
Jun 2002 Adj Full Service to AGR (Valley Center)	294.00	4,285.8	1,260,025.20
Jul 2002 Adj Full Service to AGR	431.00	4,702.9	2,026,949.90
Jul 2002 Adj Full Service to AGR (Valley Center)	294.00	-4,702.9	-1,382,652.60
Jul 2002 Adj Full Service to AGR	431.00	-4,705.8	-2,028,199.80
Jul 2002 Adj Full Service to AGR (Valley Center)	294.00	4,705.8	1,383,505.20
Aug 2002 Adj Full Service to AGR	431.00	4,741.2	2,043,457.20
Aug 2002 Adj Full Service to AGR (Valley Center)	294.00	-4,741.2	-1,393,912.80
Aug 2002 Adj Full Service to AGR	431.00	-4,744.2	-2,044,750.20
Aug 2002 Adj Full Service to AGR (Valley Center)	294.00	4,744.2	1,394,794.80
Sep 2002 Adj Full Service to AGR	431.00	4,618.8	1,990,702.80
Sep 2002 Adj Full Service to AGR (Valley Center)	294.00	-4,618.8	-1,357,927.20
Sep 2002 Adj Full Service to AGR	431.00	-4,621.7	-1,991,952.70
Sep 2002 Adj Full Service to AGR (Valley Center)	294.00	4,621.7	1,358,779.80
Oct 2002 Adj Full Service to AGR	431.00	3,648.9	1,572,675.90
Oct 2002 Adj Full Service to AGR (Valley Center)	294.00	-3,648.9	-1,072,776.60
Oct 2002 Adj Full Service to AGR	431.00	-3,650.6	-1,573,408.60
Oct 2002 Adj Full Service to AGR (Valley Center)	294.00	3,650.6	1,073,276.40
Nov 2002 Adj Full Service to AGR	431.00	2,352.8	1,014,056.80
Nov 2002 Adj Full Service to AGR (Valley Center)	294.00	-2,352.8	-691,723.20
Nov 2002 Adj Full Service to AGR	431.00	-2,353.7	-1,014,444.70
Nov 2002 Adj Full Service to AGR (Valley Center)	294.00	2,353.7	691,987.80
Dec 2002 Adj Full Service to AGR	431.00	1,354.7	583,875.70
Dec 2002 Adj Full Service to AGR (Valley Center)	294.00	-1,354.7	-398,281.80
Dec 2002 Adj Full Service to AGR	431.00	-1,355.6	-584,263.60
Dec 2002 Adj Full Service to AGR (Valley Center)	294.00	1,355.6	398,546.40
Jan 2003 Adj Full Service to AGR	408.00	2,462.8	1,004,822.40
Jan 2003 Adj Full Service to AGR (Valley Center)	294.00	-2,462.8	-724,063.20
Jan 2003 Adj Full Service to AGR	408.00	-2,464.3	-1,005,434.40
Jan 2003 Adj Full Service to AGR (Valley Center)	294.00	2,464.3	724,504.20
Feb 2003 Adj Full Service to AGR	408.00	1,182.6	482,500.80
Feb 2003 Adj Full Service to AGR (Valley Center)	294.00	-1,182.6	-347,684.40
Feb 2003 Adj Full Service to AGR	408.00	-1,183.3	-482,786.40
Feb 2003 Adj Full Service to AGR (Valley Center)	294.00	1,183.3	347,890.20
Apr 2003 Adj Full Service to AGR	408.00	1,981.5	808,452.00
Apr 2003 Adj Full Service to AGR (Valley Center)	294.00	-1,981.5	-582,561.00
Apr 2003 Adj Full Service to AGR	408.00	-1,982.3	-808,778.40
Apr 2003 Adj Full Service to AGR (Valley Center)	294.00	1,982.3	582,796.20
May 2003 Adj Full Service to AGR	408.00	2,927.5	1,194,420.00
May 2003 Adj Full Service to AGR (Valley Center)	294.00	-2,927.5	-860,685.00
May 2003 Adj Full Service to AGR	408.00	-2,931.7	-1,196,133.60
May 2003 Adj Full Service to AGR (Valley Center)	294.00	2,931.7	861,919.80
Jun 2003 Adj Full Service to AGR	408.00	3,266.1	1,332,568.80
Jun 2003 Adj Full Service to AGR (Valley Center)	294.00	-3,266.1	-980,233.40
Jun 2003 Adj Full Service to AGR	408.00	-3,268.1	-1,333,384.80
Jun 2003 Adj Full Service to AGR (Valley Center)	294.00	3,268.1	980,821.40
Jul 2003 Adj Full Service to AGR	408.00	4,801.4	1,958,971.20
Jul 2003 Adj Full Service to AGR (Valley Center)	294.00	-4,801.4	-1,411,611.60
Jul 2003 Adj Full Service to AGR	408.00	-4,804.5	-1,990,236.00
Jul 2003 Adj Full Service to AGR (Valley Center)	294.00	4,804.5	1,412,523.00

Agency Name
San Diego County Water Authority

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4624 0 March 2004

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2003 Adj Full Service to AGR Voided	408.00	5,076.5	2,071,212.00
Aug 2003 Adj Full Service to AGR Voided (Valley Center)	294.00	-5,076.5	-1,492,491.00
Aug 2003 Adj Full Service to AGR	408.00	-5,078.1	-2,071,864.80
Aug 2003 Adj Full Service to AGR (Valley Center)	294.00	5,078.1	1,492,961.40
Sep 2003 Adj Full Service to AGR Voided	408.00	4,573.1	1,865,824.80
Sep 2003 Adj Full Service to AGR Voided (Valley Center)	294.00	-4,573.1	-1,344,491.40
Sep 2003 Adj Full Service to AGR	408.00	-4,575.0	-1,866,600.00
Sep 2003 Adj Full Service to AGR (Valley Center)	294.00	4,575.0	1,345,050.00
Jan 2004 Adj Full Service to AGR	418.00	-56.7	-23,700.60
Jan 2004 Adj Full Service to AGR (Rincon)	304.00	56.7	17,236.80
Jan 2004 Adj Full Service to AGR	418.00	-2.0	-1,170.40
Jan 2004 Adj Full Service to AGR (Padre Dam)	304.00	2.8	851.20
Feb 2004 Adj Full Service to AGR	418.00	-47.7	-19,938.60
Feb 2004 Adj Full Service to AGR (Carlsbad Municipal)	304.00	47.7	14,500.80
Feb 2004 Adj Full Service to AGR	418.00	-312.1	-130,457.80
Feb 2004 Adj Full Service to AGR (Fallbrook)	304.00	312.1	94,878.40
Feb 2004 Adj Full Service to AGR	418.00	-17.2	-7,189.60
Feb 2004 Adj Full Service to AGR (Oceanside)	304.00	17.2	5,228.80
Feb 2004 Adj Full Service to AGR	418.00	-12.1	-5,057.80
Feb 2004 Adj Full Service to AGR (Olivenhain)	304.00	12.1	3,678.40
Feb 2004 Adj Full Service to AGR	418.00	-3.1	-1,295.80
Feb 2004 Adj Full Service to AGR (Otay)	304.00	3.1	942.40
Feb 2004 Adj Full Service to AGR	418.00	-99.7	-41,674.80
Feb 2004 Adj Full Service to AGR (Padre Dam)	304.00	99.7	30,308.80
Feb 2004 Adj Full Service to AGR	418.00	-827.8	-346,020.40
Feb 2004 Adj Full Service to AGR (Rainbow)	304.00	827.8	251,651.20
Feb 2004 Adj Full Service to AGR	418.00	-25.8	-10,700.80
Feb 2004 Adj Full Service to AGR (Ramona)	304.00	25.8	7,782.40
Feb 2004 Adj Full Service to AGR	418.00	-35.7	-14,922.60
Feb 2004 Adj Full Service to AGR (Rincon)	304.00	35.7	10,852.80
Feb 2004 Adj Full Service to AGR	418.00	-0.4	-167.20
Feb 2004 Adj Full Service to AGR (City of San Diego)	304.00	0.4	121.60
Feb 2004 Adj Full Service to AGR	418.00	-124.1	-51,873.80
Feb 2004 Adj Full Service to AGR (Vallecitos)	304.00	124.1	37,726.40
Feb 2004 Adj Full Service to AGR	418.00	-1,042.2	-435,639.60
Feb 2004 Adj Full Service to AGR (Valley Center)	304.00	1,042.2	316,828.80
Feb 2004 Adj Full Service to AGR	418.00	-7.3	-3,051.40
Feb 2004 Adj Full Service to AGR (Vista)	304.00	7.3	2,219.20
Feb 2004 Adj Full Service to AGR	418.00	-65.1	-27,211.80
Feb 2004 Adj Full Service to AGR (Yuima)	304.00	65.1	19,790.40
Adjustment Subtotal		0.0	-313,413.20
SD-07 Total		13,570.1	5,358,988.60

Meter No SD-08

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
n/o Red Mtn. n/o Mission Rd.	100	22700512	22879440	17892800	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	410.8	29,988.40
System Access Rate	163.00	410.8	66,960.40
Water Stewardship Rate	30.00	410.8	12,324.00
System Power Rate	60.00	410.8	24,648.00
Treatment Surcharge	92.00	410.8	37,793.60
Delivery Subtotal		410.8	171,714.40
SD-08 Total		410.8	171,714.40

Agency Name
San Diego County Water Authority

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Meter No SD-09

Treated Domestic w/o Rainbow Glen. Rd. n/o Red Mtn.	Constant 100	Previous Reading 4875310	Current Reading 4963320	Volume (Cu. Ft.) 8801000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	202.0	14,746.00
System Access Rate	163.00	202.0	32,926.00
Water Stewardship Rate	30.00	202.0	6,060.00
System Power Rate	60.00	202.0	12,120.00
Treatment Surcharge	92.00	202.0	18,584.00
Delivery Subtotal		202.0	84,436.00
SD-09 Total		202.0	84,436.00

Meter No SD-11

Untreated Domestic e/o Wilt Rd. n/o Dos Ninos Ave.	Constant 10,000	Previous Reading 9259059	Current Reading 9352626	Volume (Cu. Ft.) 935670000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	21,480.0	1,568,040.00
System Access Rate	163.00	21,480.0	3,501,240.00
Water Stewardship Rate	30.00	21,480.0	644,400.00
System Power Rate	60.00	21,480.0	1,288,800.00
Delivery Subtotal		21,480.0	7,002,480.00

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2003 Adj Full Service to Surface Storage Voided	326.00	2,006.0	653,956.00
Oct 2003 Adj Full Service to Surface Storage Voided	326.00	500.0	163,000.00
Oct 2003 Adj Full Service to Surface Storage	326.00	-1,837.0	-598,862.00
Oct 2003 Adj Full Service to Surface Storage	326.00	-1,554.0	-506,804.00
Nov 2003 Adj Full Service to Surface Storage Voided	326.00	7,839.4	2,555,644.40
Nov 2003 Adj Full Service to Surface Storage	326.00	-8,989.4	-2,933,804.40
Dec 2003 Adj Full Service to Surface Storage Voided	326.00	1,525.6	497,345.60
Dec 2003 Adj Full Service to Surface Storage	326.00	-847.6	-276,317.60
Jan 2004 Adj Full Service to Surface Storage Voided	326.00	10,260.0	3,344,760.00
Jan 2004 Adj Full Service to Surface Storage	326.00	-10,575.0	-3,447,450.00
Feb 2004 Adj Full Service to AGR	326.00	-188.4	-64,026.40
Feb 2004 Adj Full Service to AGR (Escondido)	236.00	196.4	46,350.40
Feb 2004 Adj Full Service to AGR	326.00	-74.6	-24,319.60
Feb 2004 Adj Full Service to AGR (Oceanside)	236.00	74.6	17,605.60
Feb 2004 Adj Full Service to AGR	326.00	-49.4	-16,104.40
Feb 2004 Adj Full Service to AGR (Olivenhain)	236.00	49.4	11,658.40
Feb 2004 Adj Full Service to AGR	326.00	-74.4	-24,254.40
Feb 2004 Adj Full Service to AGR (Ramona)	236.00	74.4	17,558.40
Feb 2004 Adj Full Service to AGR	326.00	-11.3	-3,683.80
Feb 2004 Adj Full Service to AGR (City of San Diego)	236.00	11.3	2,686.80
Feb 2004 Adj Full Service to AGR	326.00	-7.0	-2,282.00
Feb 2004 Adj Full Service to AGR (Santa Fe Irrigation)	236.00	7.0	1,652.00
Feb 2004 Adj Full Service to AGR	326.00	-11.1	-3,618.60
Feb 2004 Adj Full Service to AGR (Vista)	236.00	11.1	2,619.60
Feb 2004 Adj Full Service to Surface Storage Voided	326.00	9,091.0	2,963,666.00
Feb 2004 Adj Full Service to Surface Storage	326.00	-10,762.0	-3,508,412.00
Mar 2004 Adj EXCH From IID to SDCWA	326.00	-1,666.7	-543,344.20
Mar 2004 Adj EXCH From IID to SDCWA (San Diego CWA)	253.00		421,675.10
Mar 2004 Adj Full Service to Surface Storage	326.00	-10,291.0	-3,354,866.00
Adjustment Subtotal		-15,310.7	-4,607,791.10
SD-11 Total		6,169.3	2,394,688.90

Agency Name
San Diego County Water Authority

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Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2004 LPPDS Contribution	250.00	285.1	-71,275.00
Adjustment Subtotal		285.1	-71,275.00
SD-DS1 Total		285.1	-71,275.00

Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2004 GRP	437.00	275.1	120,218.70
Mar 2004 GRP	687.00		-188,993.70
Adjustment Subtotal		275.1	-68,775.00
SD-GRP1 Total		275.1	-68,775.00

Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2004 LRP Contribution	250.00	23.4	-5,850.00
Adjustment Subtotal		23.4	-5,850.00
SD-RCL1 Total		23.4	-5,850.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
No Address 1		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Feb 2004 Contribution	225.00	158.8	-35,730.00
Adjustment Subtotal		158.8	-35,730.00
SD-RCL10 Total		158.8	-35,730.00

Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2004 Contribution	150.00	13.4	-2,010.00
Adjustment Subtotal		13.4	-2,010.00
SD-RCL15 Total		13.4	-2,010.00

Agency Name
San Diego County Water Authority

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Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Feb 2004 LRP Contribution	250.00	84.3	-21,075.00
Adjustment Subtotal		84.3	-21,075.00
SD-RCL6 Total		84.3	-21,075.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Feb 2004 LRP Contribution	210.00	36.2	-7,602.00
Adjustment Subtotal		36.2	-7,602.00
SD-RCL8 Total		36.2	-7,602.00

Meter No SD-RCL9

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2004 LPPRE	113.00	16.5	1,864.50
Mar 2004 LPPRE	267.00		-4,405.50
Adjustment Subtotal		16.5	-2,541.00
SD-RCL9 Total		16.5	-2,541.00

Meter No SDTJ-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
San Diego-Tijuana	1	27934553	27934553	0	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Delivery Subtotal		0.0	0.00
SDTJ-01A Total		0.0	0.00

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag.# 55346	-246,070.00
Tier 2 Surcharge	-112,006.80

VOLUME TOTAL	42,830.6	INVOICE TOTAL	\$15,011,383.50
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This invoice was printed on 4/7/2004 at 2:13:13PM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

April 2004	Page No. 1 of 2
Mailed: 05/10/2004	Due Date: 06/30/2004
Invoice Number: 4652	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	22,981.1
Total Water Untreated Delivered	38,120.8

SALES	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	46,452.4	\$73.00	\$3,391,025.20
	System Access Rate	46,452.4	\$163.00	\$7,571,741.20
	Water Stewardship Rate	46,452.4	\$30.00	\$1,393,572.00
	System Power Rate	46,452.4	\$60.00	\$2,787,144.00
	Treatment Surcharge	18,045.4	\$92.00	\$1,660,176.80
Adjust Full Service Prior Rates				
Certification(s) for 200301 to 200312 for Domestic	Treated	-526.2	\$408.00	(\$214,689.60)
	Untreated	4,649.9	\$326.00	\$1,515,867.40
IAWP	Treated	5,461.9		\$1,655,155.60
	Untreated	573.3		\$135,298.80
SUBTOTAL				\$18,895,291.40

WATER MANAGEMENT	Volume (AF)	Total (\$)
Local Resource Programs	1,134.9	(\$272,985.10)
SUBTOTAL		(\$272,985.10)

EXCHANGES, WHEELING, AND OTHER DELIVERIES	Volume (AF)	Total (\$)
Tijuana Emergency Deliveries and Losses		
IID San Diego Exchange UnTreated	1,666.6	\$421,649.80
		\$421,649.80

OTHER CHARGES AND CREDITS	Volume (AF)	Rate (\$ /AF)	Total (\$)
Conservation Credit			(\$478,380.00)
Tier 2 Surcharge for: 2003	4,123.7	\$81.00	\$334,019.70
Readiness To Serve Charge(Payment Schedule: S)			\$5,087,118.00
Capacity Charge(Payment Schedule: S)			\$3,952,800.00
SUBTOTAL			\$8,895,557.70

ADDITIONAL INFORMATION	Volume (AF)	Tier1 %	Peak Day	Flow (CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,338,035.2			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	682,487.3			
Tier 1 Annual Limit (For Current Year)	500,705.3			
Tier 1 YTD Deliveries (For Current Year)	155,676.7	31.0		
Tier 1 Current Month Deliveries	46,452.4			
Requested Capacity				1,296.0
Annual Peak Flow			4/28/2004	1,204.4
Summer Peak Flow			5/4/2004	1,373.5

Agency Name
San Diego County Water Authority

Invoice No. 4652
Rev. 0
Bill Period April 2004

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2 of 2

Mailed On
05-10-04

DTX-1130

Due On
~~06-30-04~~

INVOICE TOTAL

Volume AF

57,746.2

Amount Now Due

\$28,939,513.80

San Diego County Water Authority

MWD2010-00274680



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4852	0	April 2004	1 of 7	05-10-04	06-30-04

Meter No SD-01A						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	14962742	15120243	157501000	Unbundled	

--- DELIVERIES ---				Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate				73.00	3,615.7	263,946.10
System Access Rate				163.00	3,615.7	589,359.10
Water Stewardship Rate				30.00	3,615.7	108,471.00
System Power Rate				60.00	3,615.7	216,942.00
Treatment Surcharge				92.00	3,615.7	332,644.40
			Delivery Subtotal		3,615.7	1,511,362.60
				SD-01A Total	3,615.7	1,511,362.60

Meter No SD-01B						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	14557541	14714385	156844000	Unbundled	

--- DELIVERIES ---				Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate				73.00	3,600.6	262,843.80
System Access Rate				163.00	3,600.6	586,897.80
Water Stewardship Rate				30.00	3,600.6	106,018.00
System Power Rate				60.00	3,600.6	216,036.00
Treatment Surcharge				92.00	3,600.6	331,255.20
			Delivery Subtotal		3,600.6	1,505,050.80
				SD-01B Total	3,600.6	1,505,050.80

Meter No SD-02						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
w/o Rainbow Glen Rd.	100	12755033	12907388	15235500	Unbundled	

--- DELIVERIES ---				Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate				73.00	349.8	25,535.40
System Access Rate				163.00	349.8	57,017.40
Water Stewardship Rate				30.00	349.8	10,494.00
System Power Rate				60.00	349.8	20,988.00
Treatment Surcharge				92.00	349.8	32,181.60
Apr 2004, meter under 10% flow	Tier 1 supply rate			73.00	0.7	51.10
Apr 2004, meter under 10% flow	System access rate			163.00	0.7	114.10
Apr 2004, meter under 10% flow	Water stewardship rate			30.00	0.7	21.00
Apr 2004, meter under 10% flow	System power rate			60.00	0.7	42.00

Agency Name
San Diego County Water Authority

Invoice No. 4652 Rev. 0 Bill Period April 2004

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--- DELIVERIES ---

Apr 2004, meter under 10% flow Treatment surcharge

	Rate Per AF	Volume AF	Amount
	92.00	0.7	64.40
Delivery Subtotal		350.5	146,509.00
SD-02 Total		350.5	146,509.00

Meter No SD-03						
Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	42702488	43430688	728200000	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	16,717.2	1,220,355.60
System Access Rate	163.00	16,717.2	2,724,903.60
Water Stewardship Rate	30.00	16,717.2	501,516.00
System Power Rate	60.00	16,717.2	1,003,032.00
Delivery Subtotal		16,717.2	5,449,807.20
SD-03 Total		16,717.2	5,449,807.20

Meter No SD-05						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
s/o Reche Rd. w/o Wilt Rd.	100	2855876	2736093	8021700	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	184.2	13,446.60
System Access Rate	163.00	184.2	30,024.60
Water Stewardship Rate	30.00	184.2	5,526.00
System Power Rate	60.00	184.2	11,052.00
Treatment Surcharge	92.00	184.2	16,946.40
Delivery Subtotal		184.2	76,995.60
SD-05 Total		184.2	76,995.60

Meter No SD-07						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	79425936	80059288	833352000	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	14,539.8	1,061,405.40
System Access Rate	163.00	14,539.8	2,369,987.40
Water Stewardship Rate	30.00	14,539.8	436,194.00
System Power Rate	60.00	14,539.8	872,388.00
Treatment Surcharge	92.00	14,539.8	1,337,661.60
Delivery Subtotal		14,539.8	6,077,636.40

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2003 adj full service to agr voided	408.00	343.9	140,311.20
Jun 2003 adj full service to agr voided (Ramona)	294.00	-343.9	-101,106.60
Jun 2003 adj full service to agr voided	408.00	-336.6	-137,332.80
Jun 2003 adj full service to agr (Ramona)	294.00	336.6	98,960.40
Jul 2003 adj full service to agr voided	408.00	178.1	72,664.80
Jul 2003 adj full service to agr voided (Ramona)	294.00	-178.1	-52,361.40
Jul 2003 adj full service to agr voided	408.00	-399.5	-162,996.00
Jul 2003 adj full service to agr (Ramona)	294.00	399.5	117,453.00
Aug 2003 adj full service to agr voided	408.00	163.1	66,544.80
Aug 2003 adj full service to agr voided (Ramona)	294.00	-163.1	-47,951.40

Agency Name
San Diego County Water Authority

Invoice No. 4852 Rev. 0 Bill Period April 2004

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2003 adj full service to agr	408.00	-345.8	-141,086.40
Aug 2003 adj full service to agr (Ramona)	294.00	345.8	101,665.20
Sep 2003 adj full service to agr voided	408.00	191.1	77,968.80
Sep 2003 adj full service to agr voided (Ramona)	294.00	-191.1	-56,183.40
Sep 2003 adj full service to agr	408.00	-317.5	-129,540.00
Sep 2003 adj full service to agr (Ramona)	294.00	317.5	93,345.00
Oct 2003 adj full service to agr voided	408.00	387.8	158,222.40
Oct 2003 adj full service to agr voided (Ramona)	294.00	-387.8	-114,013.20
Oct 2003 adj full service to agr	408.00	-390.8	-159,446.40
Oct 2003 adj full service to agr (Ramona)	294.00	390.8	114,895.20
Feb 2004 adj full service to agr voided	418.00	12.1	5,057.80
Feb 2004 adj full service to agr voided (Olivenhain)	304.00	-12.1	-3,678.40
Feb 2004 adj full service to agr	418.00	-11.8	-4,848.80
Feb 2004 adj full service to agr (Olivenhain)	304.00	11.6	3,526.40
Mar 2004 adj full service to agr	418.00	-75.5	-31,559.00
Mar 2004 adj full service to agr (Carlsbad Municipal)	304.00	75.5	22,952.00
Mar 2004 adj full service to agr	418.00	-519.2	-217,025.60
Mar 2004 adj full service to agr (Fallbrook)	304.00	519.2	157,836.80
Mar 2004 adj full service to agr	418.00	-47.5	-18,855.00
Mar 2004 adj full service to agr (Oceanside)	304.00	47.5	14,440.00
Mar 2004 adj full service to agr	418.00	-19.8	-8,276.40
Mar 2004 adj full service to agr (Olivenhain)	304.00	19.8	6,019.20
Mar 2004 adj full service to agr	418.00	-4.1	-1,713.80
Mar 2004 adj full service to agr (Otay)	304.00	4.1	1,246.40
Mar 2004 adj full service to agr	418.00	-1,285.4	-537,297.20
Mar 2004 adj full service to agr (Rainbow)	304.00	1,285.4	390,761.60
Mar 2004 adj full service to agr	418.00	-155.7	-65,082.60
Mar 2004 adj full service to agr (Ramona)	304.00	155.7	47,332.80
Mar 2004 adj full service to agr	418.00	-1.1	-459.80
Mar 2004 adj full service to agr (City of San Diego)	304.00	1.1	334.40
Mar 2004 adj full service to agr	418.00	-0.1	-41.80
Mar 2004 adj full service to agr (Santa Fe Irrigation)	304.00	0.1	30.40
Mar 2004 adj full service to agr	418.00	-145.7	-60,902.60
Mar 2004 adj full service to agr (Vallecitos)	304.00	145.7	44,292.80
Mar 2004 adj full service to agr	418.00	-2,446.7	-1,022,720.60
Mar 2004 adj full service to agr (Valley Center)	304.00	2,446.7	743,796.80
Mar 2004 adj full service to agr	418.00	-22.2	-9,279.60
Mar 2004 adj full service to agr (Vista)	304.00	22.2	6,748.80
Mar 2004 adj full service to agr	418.00	-213.2	-89,117.60
Mar 2004 adj full service to agr (Yuima)	304.00	213.2	64,812.80
Adjustment Subtotal		0.0	-622,656.60
SD-07 Total		14,539.8	5,454,979.80

Meter No SD-08

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
n/o Red Mtn. n/o Mission Rd.	100	22879440	23064168	18472800	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	424.1	30,959.30
System Access Rate	163.00	424.1	69,128.30
Water Stewardship Rate	30.00	424.1	12,723.00
System Power Rate	60.00	424.1	25,446.00
Treatment Surcharge	92.00	424.1	39,017.20
Delivery Subtotal		424.1	177,273.80
SD-08 Total		424.1	177,273.80

Agency Name
San Diego County Water Authority

Invoice No. 4652 Rev. 0 Bill Period April 2004

Page No. 4 of 7 Mailed On 05-10-04 Due On 06-30-04

Meter No SD-09

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
w/o Rainbow Glen. Rd. n/o Red Mtn.	100	4963320	5079278	11595800	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	266.2	19,432.60
System Access Rate	163.00	266.2	43,390.60
Water Stewardship Rate	30.00	266.2	7,986.00
System Power Rate	60.00	266.2	15,972.00
Treatment Surcharge	92.00	266.2	24,490.40
Delivery Subtotal		266.2	111,271.60
SD-09 Total		266.2	111,271.60

Meter No SD-11

Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	10,000	9352626	9445860	932340000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	21,403.6	1,562,462.80
System Access Rate	163.00	21,403.6	3,488,786.80
Water Stewardship Rate	30.00	21,403.6	642,108.00
System Power Rate	60.00	21,403.6	1,284,216.00
Delivery Subtotal		21,403.6	6,977,573.60

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2003 adj full service to agr voided	326.00	49.8	16,234.80
Sep 2003 adj full service to agr voided (Ramona)	236.00	-49.8	-11,752.80
Oct 2003 adj full service to agr voided	326.00	9.1	2,966.60
Oct 2003 adj full service to agr voided (Ramona)	236.00	-9.1	-2,147.60
Oct 2003 adj full service to surface storage voided	326.00	1,554.0	506,604.00
Oct 2003 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-2,869.0	-935,294.00
Nov 2003 adj full service to surface storage voided	326.00	8,999.4	2,933,804.40
Nov 2003 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-2,056.4	-670,386.40
Dec 2003 adj full service to surface storage voided	326.00	847.6	276,317.60
Dec 2003 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-1,884.6	-614,379.60
Feb 2004 adj full service to agr voided	326.00	49.4	16,104.40
Feb 2004 adj full service to agr voided (Olivenhain)	236.00	-49.4	-11,658.40
Feb 2004 adj full service to agr (Olivenhain)	236.00	-47.5	-15,485.00
Feb 2004 adj full service to agr (Olivenhain)	236.00	47.5	11,210.00
Feb 2004 adj full service to agr (Poway)	326.00	-27.9	-9,095.40
Feb 2004 adj full service to agr (Poway)	236.00	27.9	6,584.40
Mar 2004 adj full service to agr (Escondido)	326.00	-204.4	-66,634.40
Mar 2004 adj full service to agr (Escondido)	236.00	204.4	48,238.40
Mar 2004 adj full service to agr (Oceanside)	326.00	-94.3	-30,741.80
Mar 2004 adj full service to agr (Oceanside)	236.00	94.3	22,254.80
Mar 2004 adj full service to agr (Olivenhain)	326.00	-49.6	-16,169.60
Mar 2004 adj full service to agr (Olivenhain)	236.00	49.6	11,705.60
Mar 2004 adj full service to agr (Ramona)	326.00	-232.4	-75,762.40
Mar 2004 adj full service to agr (Ramona)	236.00	232.4	54,846.40
Mar 2004 adj full service to agr (City of San Diego)	326.00	-6.8	-2,216.80
Mar 2004 adj full service to agr (City of San Diego)	236.00	6.8	1,604.80
Mar 2004 adj full service to agr (Santa Fe Irrigation)	326.00	-10.5	-3,423.00
Mar 2004 adj full service to agr (Santa Fe Irrigation)	236.00	10.5	2,478.00
Mar 2004 adj full service to agr (Vista)	326.00	-8.2	-2,673.20
Mar 2004 adj full service to agr (Vista)	236.00	8.2	1,935.20
Mar 2004 adj full service to surface storage voided	326.00	10,291.0	3,354,866.00
Mar 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-10,778.0	-3,513,628.00
Mar 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-344.0	-112,144.00
Apr 2004 adj exch iid to sdcwa	326.00	-1,666.6	-543,311.60

Agency Name
San Diego County Water Authority

Invoice No. 4852 Rev. 0 Bill Period April 2004 Page No. 5 of 7 Mailed On 05-10-04 Due On 06-30-04

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Apr 2004 adj exch iid to sdcwa (San Diego CWA)	253.00		421,649.80
Apr 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-6,584.0	-2,146,384.00
Adjustment Subtotal		-4,490.6	-1,093,882.80
SD-11 Total		16,913.0	5,883,690.80

Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Apr 2004 lppds contribution	250.00	265.9	-66,475.00
Adjustment Subtotal		265.9	-66,475.00
SD-DS1 Total		265.9	-66,475.00

Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
APR 2004 GRP	437.00	262.1	114,537.70
APR 2004 GRP	687.00		-180,062.70
Adjustment Subtotal		262.1	-65,525.00
SD-GRP1 Total		262.1	-65,525.00

Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Apr 2004 lrp contribution	250.00	32.6	-8,150.00
Adjustment Subtotal		32.6	-8,150.00
SD-RCL1 Total		32.6	-8,150.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
No Address 1		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2004 contribution	225.00	135.9	-30,577.50
Adjustment Subtotal		135.9	-30,577.50
SD-RCL10 Total		135.9	-30,577.50

Meter No SD-RCL12

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

Agency Name
San Diego County Water Authority

Invoice No. 4652 Rev. 0 Bill Period April 2004 Page No. 6 of 7 Mailed On 05-10-04 Due On 06-30-04

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2004 lrp contribution	250.00	27.8	-6,950.00
Apr 2004 lrp contribution	250.00	38.0	-8,500.00
Adjustment Subtotal		65.8	-16,450.00
SD-RCL12 Total		65.8	-16,450.00

Meter No SD-RCL13

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2004 contribution	250.00	72.8	-18,200.00
Apr 2004 contribution	250.00	111.7	-27,925.00
Adjustment Subtotal		184.5	-46,125.00
SD-RCL13 Total		184.5	-46,125.00

Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Apr 2004 contribution	150.00	29.0	-4,350.00
Adjustment Subtotal		29.0	-4,350.00
SD-RCL15 Total		29.0	-4,350.00

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2004 lrp contribution	250.00	75.2	-18,800.00
Adjustment Subtotal		75.2	-18,800.00
SD-RCL6 Total		75.2	-18,800.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Mar 2004 lrp contribution	210.00	64.5	-13,545.00
Adjustment Subtotal		64.5	-13,545.00
SD-RCL8 Total		64.5	-13,545.00

Meter No SD-RCL9

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
		N/A	N/A	N/A	Unbundled

Agency Name
San Diego County Water Authority

Invoice No. 4652 Rev. 0 Bill Period April 2004 Page No. 7 of 7 Mailed On 05-10-04 Due On 06-30-04

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
APR 2004 LPPRE	113.00	19.4	2,192.20
APR 2004 LPPRE	267.00		-5,179.80
Adjustment Subtotal		19.4	-2,987.60
SD-RCL9 Total		19.4	-2,987.60

Meter No SDTJ-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
San Diego-Tijuana	1	27934553	27934553	0	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Delivery Subtotal		0.0	0.00
SDTJ-01A Total		0.0	0.00

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag.# 55346	-478,380.00
Capacity Charge	3,952,800.00
Readiness to Serve Charge	5,087,118.00
Tier 2 Surcharge	334,019.70

VOLUME TOTAL	INVOICE TOTAL
57,746.2	\$28,939,513.80

This invoice was printed on 5/6/2004 at 3:12:56PM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:
 San Diego County Water Authority



Service Address
 4677 Overland Avenue
 San Diego, Ca. 92123-1233

May 2004	Page No. 1 of 2
Mailed: 06/10/2004	Due Date: 07/30/2004
Invoice Number: 4680	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	31,306.7
Total Water Untreated Delivered	40,418.1

SALES	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	58,688.0	\$73.00	\$4,284,224.00
	System Access Rate	58,688.0	\$163.00	\$9,566,144.00
	Water Stewardship Rate	58,688.0	\$30.00	\$1,760,640.00
	System Power Rate	58,688.0	\$60.00	\$3,521,280.00
	Treatment Surcharge	25,198.7	\$92.00	\$2,318,280.40
Adjust Full Service Prior Rates				
Certification(s) for 200301 to 200312 for Domestic	Treated	700.9	\$408.00	\$285,967.20
	Untreated	-59.0	\$326.00	(\$19,234.00)
IAWP	Treated	6,105.0		\$1,855,920.00
	Untreated	1,066.1		\$251,599.60
SUBTOTAL				\$23,824,821.20

WATER MANAGEMENT	Volume (AF)	Total (\$)
Local Resource Programs	1,227.5	(\$287,502.10)
SUBTOTAL		(\$287,502.10)

EXCHANGES, WHEELING, AND OTHER DELIVERIES	Volume (AF)	Total (\$)
Tijuana Emergency Deliveries and Losses		
IID San Diego Exchange UnTreated	1,666.7	\$421,675.10
		\$421,675.10

OTHER CHARGES AND CREDITS	Volume (AF)	Rate (\$ /AF)	Total (\$)
Conservation Credit			(\$419,884.00)
Tier 2 Surcharge for: 2003	641.9	\$81.00	\$51,993.90
SUBTOTAL			(\$367,890.10)

ADDITIONAL INFORMATION	Volume (AF)	Tier1 %	Peak Day	Flow (CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,338,035.2			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	741,817.2			
Tier 1 Annual Limit (For Current Year)	500,705.3			
Tier 1 YTD Deliveries (For Current Year)	214,364.7	43.0		
Tier 1 Current Month Deliveries	58,688.0			
Requested Capacity				1,296.0
Annual Peak Flow			5/4/2004	1,373.5
Summer Peak Flow			5/4/2004	1,373.5

Agency Name
San Diego County Water Authority

Invoice No. 4680 Rev. 0 Bill Period May 2004 Page No. 2 of 2

Mailed On 06-10-04 Due On 07-30-04

DTX-1130

INVOICE TOTAL

Volume AF

67,728.5

Amount Now Due

\$23,591,104.10

MWD2010-00274689



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4680	0	May 2004	1 of 7	06-10-04	07-30-04

Meter No CM-10

Treated	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Treated Domestic		0	0	0	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jan 2003 adj from full service to full service	408.00	56.9	23,215.20
Feb 2003 adj from full service to full service	408.00	69.1	28,192.80
Mar 2003 adj from full service to full service	408.00	59.4	24,235.20
Apr 2003 adj from full service to full service	408.00	52.4	21,379.20
May 2003 adj from full service to full service	408.00	57.8	23,582.40
Jun 2003 adj from full service to full service	408.00	60.4	24,643.20
Jul 2003 adj from full service to full service	408.00	58.2	23,745.60
Aug 2003 adj from full service to full service	408.00	60.3	24,602.40
Sep 2003 adj from full service to full service	408.00	56.3	22,970.40
Oct 2003 adj from full service to full service	408.00	59.0	24,072.00
Nov 2003 adj from full service to full service	408.00	56.7	23,133.60
Dec 2003 adj from full service to full service	408.00	54.4	22,195.20
Adjustment Subtotal		700.9	285,967.20
CM-10 Total		700.9	285,967.20

Meter No SD-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	15120243	15316365	198122000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	4,502.3	328,667.90
System Access Rate	163.00	4,502.3	733,874.90
Water Stewardship Rate	30.00	4,502.3	135,069.00
System Power Rate	60.00	4,502.3	270,138.00
Treatment Surcharge	92.00	4,502.3	414,211.60
Delivery Subtotal		4,502.3	1,881,961.40
SD-01A Total		4,502.3	1,881,961.40

Meter No SD-01B

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	14714385	14909944	195559000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	4,489.4	327,726.20
System Access Rate	163.00	4,489.4	731,772.20

Agency Name
San Diego County Water Authority

Invoice No. 4680 Rev. 0 Bill Period May 2004 Page No. 2 of 7 Mailed On 06-10-04 Due On 07-30-04

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Water Stewardship Rate	30.00	4,489.4	134,882.00
System Power Rate	60.00	4,489.4	269,364.00
Treatment Surcharge	92.00	4,489.4	413,024.80
Delivery Subtotal		4,489.4	1,876,569.20
SD-01B Total		4,489.4	1,876,569.20

Meter No SD-02

	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Treated Domestic w/o Rainbow Glen Rd.	100	12907388	13146764	23937600	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	549.5	40,113.50
System Access Rate	163.00	549.5	89,568.50
Water Stewardship Rate	30.00	549.5	16,485.00
System Power Rate	60.00	549.5	32,970.00
Treatment Surcharge	92.00	549.5	50,554.00
May 2004, meter under 10% flow Tier 1 supply rate	73.00	0.2	14.60
May 2004, meter under 10% flow System access rate	163.00	0.2	32.60
May 2004, meter under 10% flow Water stewardship rate	30.00	0.2	6.00
May 2004, meter under 10% flow System power rate	60.00	0.2	12.00
May 2004, meter under 10% flow Treatment surcharge	92.00	0.2	18.40
Delivery Subtotal		549.7	229,774.80
SD-02 Total		549.7	229,774.80

Meter No SD-03

	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Untreated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	43430688	44180560	749872000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	17,214.7	1,256,873.10
System Access Rate	163.00	17,214.7	2,805,996.10
Water Stewardship Rate	30.00	17,214.7	516,441.00
System Power Rate	60.00	17,214.7	1,032,882.00
Delivery Subtotal		17,214.7	5,611,992.20
SD-03 Total		17,214.7	5,611,992.20

Meter No SD-05

	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Treated Domestic s/o Reche Rd. w/o Wilt Rd.	100	2736093	2841152	10505900	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	241.2	17,807.60
System Access Rate	163.00	241.2	39,315.60
Water Stewardship Rate	30.00	241.2	7,236.00
System Power Rate	60.00	241.2	14,472.00
Treatment Surcharge	92.00	241.2	22,190.40
Delivery Subtotal		241.2	100,821.60
SD-05 Total		241.2	100,821.60

Agency Name
San Diego County Water Authority

Invoice No. 4680 Rev. 0 Bill Period May 2004

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Meter No SD-07

Treated Domestic e/o Wilt Rd. n/o Dos Ninos Ave.	Constant 1,000	Previous Reading 80059288	Current Reading 80962528	Volume (Cu. Ft.) 903240000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	20,735.5	1,513,691.50
System Access Rate	163.00	20,735.5	3,379,886.50
Water Stewardship Rate	30.00	20,735.5	622,065.00
System Power Rate	60.00	20,735.5	1,244,130.00
Treatment Surcharge	92.00	20,735.5	1,907,666.00
Delivery Subtotal		20,735.5	8,667,439.00

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Feb 2004 adj full service to agr voided	418.00	25.6	10,700.80
Feb 2004 adj full service to agr voided (Ramona)	304.00	-25.6	-7,782.40
Feb 2004 adj full service to agr	418.00	-45.1	-18,851.80
Feb 2004 adj full service to agr (Ramona)	304.00	45.1	13,710.40
Mar 2004 adj full service to agr	418.00	-0.8	-334.40
Mar 2004 adj full service to agr (Padre Dam)	304.00	0.8	243.20
Mar 2004 adj full service to agr	418.00	-55.2	-23,073.60
Mar 2004 adj full service to agr (Rincon)	304.00	55.2	16,780.80
Apr 2004 adj full service to agr	418.00	-82.2	-34,359.60
Apr 2004 adj full service to agr (Carlsbad Municipal)	304.00	82.2	24,988.80
Apr 2004 adj full service to agr	418.00	-695.6	-290,760.80
Apr 2004 adj full service to agr (Fallbrook)	304.00	695.6	211,462.40
Apr 2004 adj full service to agr	418.00	-65.4	-27,337.20
Apr 2004 adj full service to agr (Oceanside)	304.00	65.4	19,881.60
Apr 2004 adj full service to agr	418.00	-14.2	-5,935.60
Apr 2004 adj full service to agr (Olivenhain)	304.00	14.2	4,316.80
Apr 2004 adj full service to agr	418.00	-7.6	-3,176.80
Apr 2004 adj full service to agr (Otay)	304.00	7.6	2,310.40
Apr 2004 adj full service to agr	418.00	-127.7	-53,378.60
Apr 2004 adj full service to agr (Padre Dam)	304.00	127.7	38,920.80
Apr 2004 adj full service to agr	418.00	-1,204.6	-503,522.80
Apr 2004 adj full service to agr (Rainbow)	304.00	1,204.6	366,198.40
Apr 2004 adj full service to agr	418.00	-132.3	-55,301.40
Apr 2004 adj full service to agr (Ramona)	304.00	132.3	40,219.20
Apr 2004 adj full service to agr	418.00	-74.4	-31,099.20
Apr 2004 adj full service to agr (Rincon)	304.00	74.4	22,617.60
Apr 2004 adj full service to agr	418.00	-0.2	-83.60
Apr 2004 adj full service to agr (City of San Diego)	304.00	0.2	60.80
Apr 2004 adj full service to agr	418.00	-0.1	-41.80
Apr 2004 adj full service to agr (Santa Fe Irrigation)	304.00	0.1	30.40
Apr 2004 adj full service to agr	418.00	-177.1	-74,027.80
Apr 2004 adj full service to agr (Vallecitos)	304.00	177.1	53,838.40
Apr 2004 adj full service to agr	418.00	-3,179.6	-1,329,072.80
Apr 2004 adj full service to agr (Valley Center)	304.00	3,179.6	966,598.40
Apr 2004 adj full service to agr	418.00	-42.7	-17,848.60
Apr 2004 adj full service to agr (Vista)	304.00	42.7	12,980.80
Apr 2004 adj full service to agr	418.00	-225.8	-94,384.40
Apr 2004 adj full service to agr (Yuima)	304.00	225.8	68,643.20
Apr 2004 adj full service to surface storage - Direct - (San Diego CWA)	418.00	-3.0	-1,254.00
Adjustment Subtotal		-3.0	-697,224.00
SD-07 Total		20,732.5	7,970,215.00

Meter No SD-08

Treated Domestic n/o Red Mtn. n/o Mission Rd.	Constant 100	Previous Reading 23064168	Current Reading 23258460	Volume (Cu. Ft.) 19429200	Rate Desc. Unbundled
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Agency Name
San Diego County Water Authority

Invoice No. 4680 Rev. 0 Bill Period May 2004 Page No. 4 of 7 Mailed On 06-10-04 Due On 07-30-04

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	446.0	32,558.00
System Access Rate	163.00	446.0	72,698.00
Water Stewardship Rate	30.00	446.0	13,380.00
System Power Rate	60.00	446.0	26,760.00
Treatment Surcharge	92.00	446.0	41,032.00
Delivery Subtotal		446.0	186,428.00
SD-08 Total		446.0	186,428.00

Meter No SD-09

Treated Domestic w/o Rainbow Glen. Rd. n/o Red Mtn.	Constant 100	Previous Reading 5079278	Current Reading 5228536	Volume (Cu. Ft.) 14925800	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	342.6	25,009.80
System Access Rate	163.00	342.6	55,843.80
Water Stewardship Rate	30.00	342.6	10,278.00
System Power Rate	60.00	342.6	20,556.00
Treatment Surcharge	92.00	342.6	31,519.20
Delivery Subtotal		342.6	143,206.80
SD-09 Total		342.6	143,206.80

Meter No SD-11

Untreated Domestic e/o Wilt Rd. n/o Dos Ninos Ave.	Constant 10,000	Previous Reading 9445860	Current Reading 9546934	Volume (Cu. Ft.) 1010740000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	23,203.4	1,693,848.20
System Access Rate	163.00	23,203.4	3,782,154.20
Water Stewardship Rate	30.00	23,203.4	696,102.00
System Power Rate	60.00	23,203.4	1,392,204.00
Delivery Subtotal		23,203.4	7,564,308.40

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2003 adj full service to surface storage voided	326.00	6,148.0	2,004,248.00
Dec 2003 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-6,207.0	-2,023,482.00
Jan 2004 adj full service to surface storage voided	326.00	10,575.0	3,447,450.00
Jan 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-10,564.0	-3,443,864.00
Feb 2004 adj full service to agr voided	326.00	74.4	24,254.40
Feb 2004 adj full service to agr voided (Ramona)	236.00	-74.4	-17,558.40
Feb 2004 adj full service to agr	326.00	-145.4	-47,400.40
Feb 2004 adj full service to agr (Ramona)	236.00	145.4	34,314.40
Feb 2004 adj full service to surface storage voided	326.00	10,762.0	3,508,412.00
Feb 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-10,768.0	-3,510,368.00
Mar 2004 adj full service to agr	326.00	-42.2	-13,757.20
Mar 2004 adj full service to agr (Poway)	236.00	42.2	9,959.20
Mar 2004 adj full service to surface storage - Direct - (San Diego CWA) VOIDED	326.00	10,778.0	3,513,628.00
Mar 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-10,798.0	-3,520,148.00
Apr 2004 adj full service to agr	326.00	-529.5	-172,617.00
Apr 2004 adj full service to agr (Escondido)	236.00	529.5	124,982.00
Apr 2004 adj full service to agr	326.00	-108.6	-35,403.60
Apr 2004 adj full service to agr (Oceanside)	236.00	108.6	25,629.80
Apr 2004 adj full service to agr	326.00	-81.2	-29,731.20
Apr 2004 adj full service to agr (Olivenhain)	236.00	91.2	21,523.20
Apr 2004 adj full service to agr	326.00	-185.3	-60,407.80
Apr 2004 adj full service to agr (Ramona)	236.00	185.3	43,730.80
Apr 2004 adj full service to agr	326.00	-1.5	-489.00

Agency Name
San Diego County Water Authority

Invoice No. 4680 Rev. 0 Bill Period May 2004

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Apr 2004 adj full service to agr (City of San Diego)	236.00	1.5	354.00
Apr 2004 adj full service to agr	326.00	-10.0	-3,260.00
Apr 2004 adj full service to agr (Santa Fe Irrigation)	236.00	10.0	2,360.00
Apr 2004 adj full service to agr	326.00	-26.8	-8,736.80
Apr 2004 adj full service to agr (Vista)	236.00	26.8	6,324.80
May 2004 adj exchange from iid	326.00	-1,668.7	-543,344.20
May 2004 adj exchange from iid (San Diego CWA)	253.00		421,675.10
May 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-4,181.0	-1,363,006.00
Adjustment Subtotal		-5,921.7	-1,604,748.10
SD-11 Total		17,281.7	5,959,560.30

Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
May 2004 lppds contribution	250.00	284.5	-71,125.00
Adjustment Subtotal		284.5	-71,125.00
SD-DS1 Total		284.5	-71,125.00

Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
MAY 2004 GRP	437.00	170.7	74,595.90
MAY 2004 GRP	687.00		-117,270.90
Adjustment Subtotal		170.7	-42,675.00
SD-GRP1 Total		170.7	-42,675.00

Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
May 2004 lrp contribution	250.00	44.0	-11,000.00
Adjustment Subtotal		44.0	-11,000.00
SD-RCL1 Total		44.0	-11,000.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
No Address 1		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Apr 2004 contribution	225.00	262.9	-59,152.50
Adjustment Subtotal		262.9	-59,152.50
SD-RCL10 Total		262.9	-59,152.50

Agency Name
San Diego County Water Authority

Invoice No. 4680 Rev. 0 Bill Period May 2004

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Meter No SD-RCL13

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
May 2004 contribution	250.00	143.3	-35,825.00
Adjustment Subtotal		143.3	-35,825.00
SD-RCL13 Total		143.3	-35,825.00

Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
May 2004 contribution	150.00	41.7	-6,255.00
Adjustment Subtotal		41.7	-6,255.00
SD-RCL15 Total		41.7	-6,255.00

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Apr 2004 lrp contribution	250.00	103.7	-25,925.00
Adjustment Subtotal		103.7	-25,925.00
SD-RCL6 Total		103.7	-25,925.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Apr 2004 lrp contribution	210.00	148.8	-31,248.00
Adjustment Subtotal		148.8	-31,248.00
SD-RCL8 Total		148.8	-31,248.00

Meter No SD-RCL9

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
MAY 2004 LPPRE	113.00	27.9	3,152.70
MAY 2004 LPPRE	267.00		-7,449.30
Adjustment Subtotal		27.9	-4,296.60
SD-RCL9 Total		27.9	-4,296.60

Agency Name
San Diego County Water Authority

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Meter No SDTJ-01A

Treated Domestic San Diego-Tijuana	Constant 1	Previous Reading 27934553	Current Reading 27934553	Volume (Cu. Ft.) 0	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Delivery Subtotal		0.0	0.00
SDTJ-01A Total		0.0	0.00

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag.# 35244	-15,950.00
Conservation Ag.# 39099	-1,030.00
Conservation Ag.# 39103	-151,070.00
Conservation Ag.# 48957	-116,534.00
Conservation Ag.# 55346	-135,300.00
Tier 2 Surcharge	51,993.90

VOLUME TOTAL	INVOICE TOTAL
67,728.5	\$23,591,104.10

This invoice was printed on 6/8/2004 at 1:30:14PM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

June 2004	Page No. 1 of 2
Mailed: 07/09/2004	Due Date: 08/31/2004
Invoice Number: 4708	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES

	Volume (AF)
Total Water Treated Delivered	28,917.8
Total Water Untreated Delivered	32,711.1

SALES

	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	42,807.9	\$73.00	\$3,124,976.70
	System Access Rate	42,807.9	\$163.00	\$6,977,687.70
	Water Stewardship Rate	42,807.9	\$30.00	\$1,284,237.00
	System Power Rate	42,807.9	\$60.00	\$2,568,474.00
	Treatment Surcharge	19,012.7	\$92.00	\$1,749,168.40
Adjust Full Service Prior Rates				
Certification(s) for 200301 to 200312 for Domestic	Treated	-325.0	\$408.00	(\$132,600.00)
Certification(s) for 199701 to 200212 for Domestic	Treated	-17.7	\$431.00	(\$7,628.70)
Certification(s) for 200301 to 200312 for Domestic	Untreated	313.0	\$326.00	\$102,038.00
Certification(s) for 199701 to 200212 for Domestic	Untreated	-69.4	\$349.00	(\$24,220.60)
IAWP	Treated	9,892.3		\$3,007,259.20
	Untreated	1,767.1		\$417,035.60
Seasonal Shift	Treated	17.7		\$5,133.00
	Untreated	69.4		\$22,964.00
SUBTOTAL				\$19,094,524.30

MISCELLANEOUS SALES

Surface Storage Operating Agreement - Treated, Scheduled	0.6	\$208.80
Surface Storage Operating Agreement - Untreated, Scheduled	10,289.4	\$2,634,086.40
		\$2,634,295.20

WATER MANAGEMENT

	Volume (AF)	Total (\$)
Local Resource Programs	1,282.1	(\$297,935.80)
SUBTOTAL		(\$297,935.80)

EXCHANGES, WHEELING, AND OTHER DELIVERIES

Tijuana Emergency Deliveries and Losses		
IID San Diego Exchange UnTreated	1,666.7	\$421,675.10
		\$421,675.10

OTHER CHARGES AND CREDITS

	Rate (\$ /AF)	Total (\$)
Conservation Credit		(\$136,838.00)
Tier 2 Surcharge for: 2003	-12.0	\$81.00 (\$972.00)
SUBTOTAL		(\$137,810.00)



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

June 2004	Page No. 2 of 2
Mailed: 07/09/2004	Due Date: 08/31/2004
Invoice Number: 4708	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

ADDITIONAL INFORMATION

	Volume (AF)	Tier1 %	Peak Day	Flow(CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,338,035.2			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	794,903.1			
Tier 1 Annual Limit (For Current Year)	500,705.3			
Tier 1 YTD Deliveries (For Current Year)	267,462.6	53.0		
Tier 1 Current Month Deliveries	53,097.9			
Requested Capacity				1,296.0
Annual Peak Flow			5/4/2004	1,373.5
Summer Peak Flow			5/4/2004	1,373.5

INVOICE TOTAL

Volume AF
66,027.4

Amount Now Due
\$21,714,748.80

Water Services Dept. 619.444.3333 http://www.mwd.net



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4708	0	June 2004	1 of 7	07-09-04	08-31-04

Meter No SD-01A					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	15316365	15509018	192651000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	4,422.7	322,857.10
System Access Rate	163.00	4,422.7	720,900.10
Water Stewardship Rate	30.00	4,422.7	132,681.00
System Power Rate	60.00	4,422.7	285,362.00
Treatment Surcharge	92.00	4,422.7	406,888.40
Delivery Subtotal		4,422.7	1,848,688.60
SD-01A Total		4,422.7	1,848,688.60

Meter No SD-01B					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	14909944	15101727	191783000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	4,402.7	321,397.10
System Access Rate	163.00	4,402.7	717,640.10
Water Stewardship Rate	30.00	4,402.7	132,081.00
System Power Rate	60.00	4,402.7	264,162.00
Treatment Surcharge	92.00	4,402.7	405,048.40
Delivery Subtotal		4,402.7	1,840,328.60
SD-01B Total		4,402.7	1,840,328.60

Meter No SD-02					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
w/o Rainbow Glen Rd.	100	13146764	13382251	23548700	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	540.6	39,463.80
System Access Rate	163.00	540.6	88,117.80
Water Stewardship Rate	30.00	540.6	16,218.00
System Power Rate	60.00	540.6	32,436.00
Treatment Surcharge	92.00	540.6	49,735.20
Delivery Subtotal		540.6	225,970.80
SD-02 Total		540.6	225,970.80

Agency Name
San Diego County Water Authority

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Meter No SD-03

Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	44180560	44870004	689444000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	15,827.5	1,155,407.50
System Access Rate	163.00	15,827.5	2,579,882.50
Water Stewardship Rate	30.00	15,827.5	474,825.00
System Power Rate	60.00	15,827.5	949,650.00
Delivery Subtotal		15,827.5	5,159,765.00
SD-03 Total		15,827.5	5,159,765.00

Meter No SD-05

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
s/o Reche Rd. w/o Wilt Rd.	100	2841152	2923678	8252600	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	189.5	13,833.50
System Access Rate	163.00	189.5	30,888.50
Water Stewardship Rate	30.00	189.5	5,685.00
System Power Rate	60.00	189.5	11,370.00
Treatment Surcharge	92.00	189.5	17,434.00
Delivery Subtotal		189.5	79,211.00
SD-05 Total		189.5	79,211.00

Meter No SD-07

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	80962528	81774560	812032000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	18,841.7	1,360,844.10
System Access Rate	163.00	18,841.7	3,038,597.10
Water Stewardship Rate	30.00	18,841.7	559,251.00
System Power Rate	60.00	18,841.7	1,118,502.00
Treatment Surcharge	92.00	18,841.7	1,715,036.40
Delivery Subtotal		18,841.7	7,792,230.60

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2002 adj full service to sss nil voided	431.00	1,219.1	525,432.10
Oct 2002 adj full service to sss nil sft voided (City of San Diego)	290.00	-1,219.1	-353,539.00
Oct 2002 adj full service to sss rds	431.00	-1,236.8	-533,060.80
Oct 2002 adj full service to sss rds sft (City of San Diego)	290.00	1,236.8	358,672.00
Feb 2003 adj full service to sss rds voided	408.00	50.5	20,604.00
Feb 2003 adj full service to sss rds sft voided (Fallbrook)	267.00	-60.5	-13,483.50
Feb 2003 adj full service to sss rds	408.00	-44.9	-18,319.20
Feb 2003 adj full service to sss rds sft (Fallbrook)	267.00	44.9	11,988.30
Mar 2003 adj full service to sss rds voided	408.00	11.4	4,851.20
Mar 2003 adj full service to sss rds sft voided (Fallbrook)	267.00	-11.4	-3,043.80
Mar 2003 adj full service to sss rds	408.00	-5.6	-2,284.80
Mar 2003 adj full service to sss rds sft (Fallbrook)	267.00	5.6	1,495.20
Apr 2003 adj full service to sss rds voided	408.00	75.1	30,640.80
Apr 2003 adj full service to sss rds sft voided (Fallbrook)	267.00	-44.8	-11,908.20
Apr 2003 adj full service to sss rds sft voided (Fallbrook)	345.00	-30.5	-10,522.50
Apr 2003 adj full service to sss rds	408.00	-86.5	-35,292.00
Apr 2003 adj full service to sss rds sft (Fallbrook)	267.00	66.0	14,952.00
Apr 2003 adj full service to sss rds sft (Fallbrook)	345.00	30.5	10,522.50

Agency Name
San Diego County Water Authority

Invoice No. 4708 Rev. 0 Bill Period June 2004

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2003 adj full service to surface storage - Direct - (San Diego CWA)	408.00	-203.0	-82,824.00
Dec 2003 adj full service to surface storage - Direct - (San Diego CWA)	408.00	-122.0	-49,776.00
Jan 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	418.00	-2.3	-961.40
Mar 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	418.00	-5.5	-2,299.00
Apr 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	418.00	-1.0	-418.00
May 2004 adj full service to agr	418.00	-112.8	-47,150.40
May 2004 adj full service to agr (Carlsbad Municipal)	304.00	112.8	34,291.20
May 2004 adj full service to agr	418.00	-1,128.7	-471,796.60
May 2004 adj full service to agr (Fallbrook)	304.00	1,128.7	343,124.80
May 2004 adj full service to agr	418.00	-91.2	-38,121.60
May 2004 adj full service to agr (Oceanside)	304.00	91.2	27,724.80
May 2004 adj full service to agr	418.00	-10.4	-4,347.20
May 2004 adj full service to agr (Olivenhain)	304.00	10.4	3,161.60
May 2004 adj full service to agr	418.00	-13.4	-5,601.20
May 2004 adj full service to agr (Otay)	304.00	13.4	4,073.60
May 2004 adj full service to agr	418.00	-2,699.3	-1,128,307.40
May 2004 adj full service to agr (Rainbow)	304.00	2,699.3	820,587.20
May 2004 adj full service to agr	418.00	-309.3	-129,287.40
May 2004 adj full service to agr (Ramona)	304.00	309.3	94,027.20
May 2004 adj full service to agr	418.00	-0.2	-83.60
May 2004 adj full service to agr (Santa Fe Irrigation)	304.00	0.2	60.80
May 2004 adj full service to agr	418.00	-281.1	-117,499.80
May 2004 adj full service to agr (Vallecitos)	304.00	281.1	85,454.40
May 2004 adj full service to agr	418.00	-4,615.9	-1,929,446.20
May 2004 adj full service to agr (Valley Center)	304.00	4,615.9	1,403,233.60
May 2004 adj full service to agr	418.00	-110.0	-45,980.00
May 2004 adj full service to agr (Vista)	304.00	110.0	33,440.00
May 2004 adj full service to agr	418.00	-516.8	-216,022.40
May 2004 adj full service to agr (Yuima)	304.00	516.8	157,107.20
May 2004 adj full service to agr	418.00	-3.2	-1,337.80
May 2004 adj full service to agr (City of San Diego)	304.00	3.2	972.80
May 2004 adj full service to surface storage - Direct - (San Diego CWA)	418.00	-4.0	-1,672.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	348.00	0.6	208.80
Adjustment Subtotal		-337.2	-1,267,959.50
SD-07 Total		18,304.5	6,524,271.10

Meter No SD-08						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
n/o Red Mtn. n/o Mission Rd.	100	23258460	23442656	18419600	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	422.9	30,871.70
System Access Rate	163.00	422.9	68,932.70
Water Stewardship Rate	30.00	422.9	12,687.00
System Power Rate	60.00	422.9	25,374.00
Treatment Surcharge	92.00	422.9	38,906.80
Delivery Subtotal		422.9	176,772.20
SD-08 Total		422.9	176,772.20

Meter No SD-09						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
w/o Rainbow Glen. Rd. n/o Red Mtn.	100	5228536	5358235	12969900	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	297.7	21,732.10
System Access Rate	163.00	297.7	48,525.10
Water Stewardship Rate	30.00	297.7	8,931.00

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4708	0	June 2004	4 of 7	07-09-04	08-31-04

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
System Power Rate	60.00	297.7	17,862.00
Treatment Surcharge	92.00	297.7	27,388.40
Delivery Subtotal		297.7	124,438.60
SD-09 Total		297.7	124,438.60

Meter No SD-11

Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	10,000	9546934	9620479	735450000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	16,883.6	1,232,502.80
System Access Rate	163.00	16,883.6	2,752,026.80
Water Stewardship Rate	30.00	16,883.6	506,508.00
System Power Rate	60.00	16,883.6	1,013,016.00
Delivery Subtotal		16,883.6	5,504,053.60

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2002 adj full service to sss rll voided	349.00	4,786.1	1,670,348.90
Oct 2002 adj full service to sss rll sft voided (City of San Diego)	233.00	-4,786.1	-1,115,161.30
Oct 2002 adj full service to sss rds	349.00	-4,855.5	-1,694,569.50
Oct 2002 adj full service to sss rds sft (City of San Diego)	233.00	4,855.5	1,131,331.50
Feb 2003 adj full service to sss rds voided	328.00	4,713.8	1,536,698.80
Feb 2003 adj full service to sss rds sft voided (City of San Diego)	288.00	-1,449.8	-417,484.80
Feb 2003 adj full service to sss rds sft voided (City of San Diego)	210.00	-3,264.2	-685,482.00
Feb 2003 adj full service to sss rds	326.00	-4,713.8	-1,536,698.80
Feb 2003 adj full service to sss rds sft (City of San Diego)	288.00	1,536.7	442,569.60
Feb 2003 adj full service to sss rds sft (City of San Diego)	210.00	3,177.1	667,191.00
Nov 2003 adj full service to surface storage voided	326.00	1,791.0	583,866.00
Nov 2003 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-1,600.0	-521,600.00
Dec 2003 adj full service to surface storage - Direct - (San Diego CWA) VOIDED	326.00	6,207.0	2,023,482.00
Dec 2003 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-6,085.0	-1,983,710.00
Jan 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-597.7	-194,850.20
Feb 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-600.0	-195,600.00
Mar 2004 adj full service to surface storage - Direct - (San Diego CWA) VOIDED	326.00	10,798.0	3,520,148.00
Mar 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-13,771.0	-4,489,346.00
Mar 2004 adj full service to surface storage - In-Lieu - (San Diego CWA) VOIDED	326.00	344.0	112,144.00
Mar 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-758.4	-247,238.40
Apr 2004 adj full service to agr	326.00	-49.4	-16,104.40
Apr 2004 adj full service to agr (Poway)	236.00	49.4	11,658.40
Apr 2004 adj full service to surface storage - Direct - (San Diego CWA) VOIDED	326.00	6,584.0	2,146,384.00
Apr 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-8,053.0	-2,625,278.00
Apr 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-124.0	-40,424.00
May 2004 adj full service to agr	326.00	-1,025.8	-334,410.80
May 2004 adj full service to agr (Escondido)	236.00	1,025.8	242,088.80
May 2004 adj full service to agr	326.00	-145.8	-47,530.80
May 2004 adj full service to agr (Oceanside)	236.00	145.8	34,408.80
May 2004 adj full service to agr	326.00	-165.1	-53,822.60
May 2004 adj full service to agr (Olivenhain)	236.00	165.1	38,963.60
May 2004 adj full service to agr	326.00	-270.8	-88,280.80
May 2004 adj full service to agr (Ramona)	236.00	270.8	63,908.80
May 2004 adj full service to agr	326.00	-24.0	-7,824.00
May 2004 adj full service to agr (Santa Fe Irrigation)	236.00	24.0	5,664.00
May 2004 adj full service to agr	326.00	-68.8	-22,428.80
May 2004 adj full service to agr (Vista)	236.00	68.8	16,236.80
May 2004 adj full service to agr	326.00	-17.4	-5,672.40
May 2004 adj full service to agr (City of San Diego)	236.00	17.4	4,106.40
May 2004 adj full service to surface storage - Direct - (San Diego CWA) VOIDED	326.00	4,181.0	1,363,006.00
May 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-3,485.0	-1,136,110.00
Jun 2004 iid - sd exchange	326.00	-1,666.7	-543,344.20

Agency Name
San Diego County Water Authority

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 lid - sd exchange (San Diego CWA)	253.00		421,675.10
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	2,869.0	734,464.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	305.6	78,233.60
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	5,277.8	1,351,116.80
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	1,837.0	470,272.00
Adjustment Subtotal		3,453.6	666,995.10
SD-11 Total		20,337.2	6,171,048.70

Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 lppds contribution	250.00	278.2	-69,550.00
Adjustment Subtotal		278.2	-69,550.00
SD-DS1 Total		278.2	-69,550.00

Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
JUN 2004 GRP	437.00	143.0	62,491.00
JUN 2004 GRP	687.00		-98,241.00
Adjustment Subtotal		143.0	-35,750.00
SD-GRP1 Total		143.0	-35,750.00

Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 lrp contribution	250.00	57.1	-14,275.00
Adjustment Subtotal		57.1	-14,275.00
SD-RCL1 Total		57.1	-14,275.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2002 contribution voided	225.00	-272.0	61,200.00
Jul 2002 contribution	225.00	250.1	-56,272.50
Aug 2002 contribution voided	225.00	-328.5	73,912.50
Aug 2002 contribution	225.00	327.0	-73,575.00
Oct 2002 contribution voided	225.00	-450.9	101,452.50
Oct 2002 contribution	225.00	450.5	-101,362.50
Apr 2003 contribution	225.00	180.1	-40,522.50
Apr 2003 contribution voided	225.00	-183.5	41,287.50
May 2003 contribution voided	225.00	-256.4	57,690.00

Agency Name
San Diego County Water Authority

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
May 2003 contribution	225.00	200.6	-45,135.00
Jun 2003 contribution voided	225.00	-185.7	41,782.50
Jun 2003 contribution	225.00	276.0	-62,100.00
May 2004 contribution	225.00	430.3	-96,817.50
Adjustment Subtotal		437.6	-98,480.00
SD-RCL10 Total		437.6	-98,480.00

Meter No SD-RCL12

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
May 2004 lrp contribution	250.00	66.6	-16,650.00
Adjustment Subtotal		66.6	-16,650.00
SD-RCL12 Total		66.6	-16,650.00

Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 contribution	150.00	41.7	-6,255.00
Adjustment Subtotal		41.7	-6,255.00
SD-RCL15 Total		41.7	-6,255.00

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
May 2004 lrp contribution	250.00	109.0	-27,250.00
Adjustment Subtotal		109.0	-27,250.00
SD-RCL6 Total		109.0	-27,250.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
May 2004 lrp contribution	210.00	121.7	-25,557.00
Adjustment Subtotal		121.7	-25,557.00
SD-RCL8 Total		121.7	-25,557.00

Meter No SD-RCL9

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
		N/A	N/A	N/A	Unbundled

Agency Name
San Diego County Water Authority

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
JUN 2004 LPPRE	113.00	27.2	3,073.60
JUN 2004 LPPRE	267.00		-7,262.40
Adjustment Subtotal		27.2	-4,188.80
SD-RCL9 Total		27.2	-4,188.80

Meter No SDTJ-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
San Diego-Tijuana	1	27934553	27934553	0	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Delivery Subtotal		0.0	0.00
SDTJ-01A Total		0.0	0.00

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag # 48957	-68,528.00
Conservation Ag # 55346	-68,310.00
Tier 2 Surcharge	-972.00

VOLUME TOTAL	INVOICE TOTAL
66,027.4	\$21,714,748.80

This invoice was printed on 7/8/2004 at 10:25:49AM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE**Billed To:**

San Diego County Water Authority

**Service Address**

4677 Overland Avenue
 San Diego, Ca. 92123-1233

July 2004	Page No. 1 of 2
Mailed: 08/10/2004	Due Date: 09/30/2004
Invoice Number: 4736	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	32,747.0
Total Water Untreated Delivered	31,438.0

SALES	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	52,293.3	\$73.00	\$3,817,410.90
	System Access Rate	52,293.3	\$163.00	\$8,523,807.90
	Water Stewardship Rate	52,293.3	\$30.00	\$1,568,799.00
	System Power Rate	52,293.3	\$60.00	\$3,137,598.00
	Treatment Surcharge	23,626.9	\$92.00	\$2,173,674.80
Adjust Full Service Prior Rates				
Certification(s) for 200301 to 200312 for Domestic	Treated	-69.5	\$408.00	(\$28,356.00)
	Untreated	-159.9	\$326.00	(\$52,127.40)
IAWP	Treated	9,189.6		\$2,792,943.40
	Untreated	1,264.8		\$298,492.80
SUBTOTAL				\$22,232,243.40

MISCELLANEOUS SALES	Volume (AF)	Total (\$)
Surface Storage Operating Agreement - Untreated, Scheduled	14,325.9	\$3,667,430.40
		\$3,667,430.40

WATER MANAGEMENT	Volume (AF)	Total (\$)
Local Resource Programs	1,598.7	(\$360,641.70)
SUBTOTAL		(\$360,641.70)

EXCHANGES, WHEELING, AND OTHER DELIVERIES	Volume (AF)	Total (\$)
IID San Diego Exchange UnTreated	1,666.6	\$421,649.80
		\$421,649.80

OTHER CHARGES AND CREDITS	Volume (AF)	Rate (\$ /AF)	Total (\$)
Conservation Credit			(\$396,462.00)
Tier 2 Surcharge for 2003	229.4	\$81.00	(\$18,581.40)
SUBTOTAL			(\$415,043.40)



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

July 2004	Page No. 2 of 2
Mailed: 08/10/2004	Due Date: 09/30/2004
Invoice Number: 4736	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

ADDITIONAL INFORMATION	Volume (AF)	Tier1 %	Peak Day	Flow (CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,338,035.2			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	861,292.9			
Tier 1 Annual Limit (For Current Year)	500,705.3			
Tier 1 YTD Deliveries (For Current Year)	334,081.8	67.0		
Tier 1 Current Month Deliveries	66,619.2			
Requested Capacity				1,296.0
Annual Peak Flow			5/4/2004	1,373.5
Summer Peak Flow			5/4/2004	1,373.5

INVOICE TOTAL

Volume AF	Amount Now Due
78,442.9	\$25,545,638.50

2004-09-30 Due - 2004-09-30 11:59:59 AM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4736	0	July 2004	1 of 7	08-10-04	09-30-04

Meter No SD-01A						
Treated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	Constant 1,000	Previous Reading 15509016	Current Reading 15719524	Volume (Cu. Ft.) 210508000	Rate Desc. Unbundled	
--- DELIVERIES ---						
			Rate Per AF	Volume AF		Amount
Tier 1 Supply Rate			73.00	4,832.6		352,779.80
System Access Rate			163.00	4,832.6		787,713.80
Water Stewardship Rate			30.00	4,832.6		144,978.00
System Power Rate			60.00	4,832.6		289,956.00
Treatment Surcharge			92.00	4,832.6		444,599.20
			Delivery Subtotal			2,020,026.80
				SD-01A Total		2,020,026.80

Meter No SD-01B						
Treated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	Constant 1,000	Previous Reading 15101727	Current Reading 15310881	Volume (Cu. Ft.) 209154000	Rate Desc. Unbundled	
--- DELIVERIES ---						
			Rate Per AF	Volume AF		Amount
Tier 1 Supply Rate			73.00	4,801.5		350,509.50
System Access Rate			163.00	4,801.5		782,644.50
Water Stewardship Rate			30.00	4,801.5		144,045.00
System Power Rate			60.00	4,801.5		288,090.00
Treatment Surcharge			92.00	4,801.5		441,738.00
			Delivery Subtotal			2,007,027.00
				SD-01B Total		2,007,027.00

Meter No SD-02						
Treated Domestic w/o Rainbow Glen Rd.	Constant 100	Previous Reading 13382251	Current Reading 13684034	Volume (Cu. Ft.) 30178300	Rate Desc. Unbundled	
--- DELIVERIES ---						
			Rate Per AF	Volume AF		Amount
Tier 1 Supply Rate			73.00	692.8		50,574.40
System Access Rate			163.00	692.8		112,926.40
Water Stewardship Rate			30.00	692.8		20,784.00
System Power Rate			60.00	692.8		41,568.00
Treatment Surcharge			92.00	692.8		63,737.60
			Delivery Subtotal			289,590.40
				SD-02 Total		289,590.40

Agency Name
San Diego County Water Authority

Invoice No. 4736 Rev. 0 Bill Period July 2004

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Meter No SD-03

Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	44870004	45511272	641268000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	14,721.5	1,074,669.50
System Access Rate	163.00	14,721.5	2,399,604.50
Water Stewardship Rate	30.00	14,721.5	441,645.00
System Power Rate	60.00	14,721.5	883,290.00
Delivery Subtotal		14,721.5	4,799,209.00
SD-03 Total		14,721.5	4,799,209.00

Meter No SD-05

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
s/o Reche Rd. w/o Wilt Rd.	100	2923678	3022795	9911700	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	227.5	16,607.50
System Access Rate	163.00	227.5	37,082.50
Water Stewardship Rate	30.00	227.5	6,825.00
System Power Rate	60.00	227.5	13,650.00
Treatment Surcharge	92.00	227.5	20,930.00
Delivery Subtotal		227.5	95,095.00
SD-05 Total		227.5	95,095.00

Meter No SD-07

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	81774560	82709208	934648000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	21,456.6	1,566,331.80
System Access Rate	163.00	21,456.6	3,497,425.80
Water Stewardship Rate	30.00	21,456.6	643,698.00
System Power Rate	60.00	21,456.6	1,287,396.00
Treatment Surcharge	92.00	21,456.6	1,974,007.20
Delivery Subtotal		21,456.6	8,968,858.80

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2003 adj full service to agr voided	408.00	25.7	10,485.60
Aug 2003 adj full service to agr voided (Oceanside)	294.00	-25.7	-7,555.80
Aug 2003 adj full service to agr	408.00	-95.2	-38,841.60
Aug 2003 adj full service to agr (Oceanside)	294.00	95.2	27,988.80
May 2004 adj full service to agr	418.00	-19.8	-8,276.40
May 2004 adj full service to agr (Padre Dam)	304.00	19.8	6,019.20
May 2004 adj full service to agr	418.00	-86.1	-35,989.80
May 2004 adj full service to agr (Rincon)	304.00	86.1	26,174.40
Jun 2004 adj full service to agr	418.00	-80.7	-33,732.80
Jun 2004 adj full service to agr (Carlsbad Municipal)	304.00	80.7	24,532.80
Jun 2004 adj full service to agr	418.00	-911.0	-380,798.00
Jun 2004 adj full service to agr (Fallbrook)	304.00	911.0	276,944.00
Jun 2004 adj full service to agr	418.00	-66.5	-27,797.00
Jun 2004 adj full service to agr (Oceanside)	304.00	66.5	20,216.00
Jun 2004 adj full service to agr	418.00	-22.8	-9,530.40
Jun 2004 adj full service to agr (Olivenhain)	304.00	22.8	6,931.20
Jun 2004 adj full service to agr	418.00	-8.5	-3,563.00
Jun 2004 adj full service to agr (Olay)	304.00	8.5	2,584.00

Agency Name
San Diego County Water Authority

Invoice No. 4736 Rev. 0 Bill Period July 2004 Page No. 3 of 7 Mailed On 08-10-04 Due On 09-30-04

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 adj full service to agr	418.00	-292.0	-122,056.00
Jun 2004 adj full service to agr (Padre Dam)	304.00	292.0	88,768.00
Jun 2004 adj full service to agr	418.00	-263.7	-110,226.80
Jun 2004 adj full service to agr (Ramona)	304.00	263.7	80,164.80
Jun 2004 adj full service to agr	418.00	-99.4	-41,549.20
Jun 2004 adj full service to agr (Rincon)	304.00	99.4	30,217.60
Jun 2004 adj full service to agr	418.00	-5.0	-2,090.00
Jun 2004 adj full service to agr (City of San Diego)	304.00	5.0	1,520.00
Jun 2004 adj full service to agr	418.00	-291.8	-121,972.40
Jun 2004 adj full service to agr (Vallecitos)	304.00	291.8	88,707.20
Jun 2004 adj full service to agr	418.00	-60.0	-25,080.00
Jun 2004 adj full service to agr (Vista)	304.00	60.0	18,240.00
Jun 2004 adj full service to agr	418.00	-2,399.8	-1,003,116.40
Jun 2004 adj full service to agr (Rainbow)	304.00	2,399.8	729,539.20
Jun 2004 adj full service to agr	418.00	-4,016.1	-1,678,729.80
Jun 2004 adj full service to agr (Valley Center)	304.00	4,016.1	1,220,894.40
Jun 2004 adj full service to agr	418.00	-496.9	-207,704.20
Jun 2004 adj full service to agr (Yuima)	304.00	496.9	151,057.60
Adjustment Subtotal		0.0	-1,047,614.40
SD-07 Total		21,458.6	7,921,244.40

Meter No SD-08

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
n/o Red Mtn. n/o Mission Rd.	100	23442656	23630416	18776000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	431.0	31,463.00
System Access Rate	163.00	431.0	70,253.00
Water Stewardship Rate	30.00	431.0	12,930.00
System Power Rate	60.00	431.0	25,860.00
Treatment Surcharge	92.00	431.0	39,652.00
Delivery Subtotal		431.0	180,158.00
SD-08 Total		431.0	180,158.00

Meter No SD-09

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
w/o Rainbow Glen. Rd. n/o Red Mtn.	100	5358235	5491095	13286000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	305.0	22,265.00
System Access Rate	163.00	305.0	49,715.00
Water Stewardship Rate	30.00	305.0	9,150.00
System Power Rate	60.00	305.0	18,300.00
Treatment Surcharge	92.00	305.0	28,060.00
Delivery Subtotal		305.0	127,490.00
SD-09 Total		305.0	127,490.00

Meter No SD-11

Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	10,000	9620479	9693296	728170000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	16,716.5	1,220,304.50

Agency Name
San Diego County Water Authority

Invoice No. 4736 Rev. 0 Bill Period July 2004

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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
System Access Rate	163.00	16,716.5	2,724,789.50
Water Stewardship Rate	30.00	16,716.5	501,495.00
System Power Rate	60.00	16,716.5	1,002,990.00
Delivery Subtotal		16,716.5	5,449,579.00

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2003 adj full service to agr voided	326.00	59.0	19,234.00
Aug 2003 adj full service to agr voided (Oceanside)	326.00	-59.0	-13,924.00
Aug 2003 adj full service to agr	326.00	-218.9	-71,361.40
Aug 2003 adj full service to agr (Oceanside)	236.00	218.9	51,660.40
Mar 2004 adj full service to surface storage - In-Lieu - (San Diego CWA) VOIDED	326.00	758.4	247,238.40
Mar 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-758.5	-247,271.00
May 2004 adj full service to agr	326.00	-71.1	-23,178.60
May 2004 adj full service to agr (Poway)	236.00	71.1	16,779.60
Jun 2004 adj full service to agr	326.00	-422.8	-137,832.80
Jun 2004 adj full service to agr (Escondido)	236.00	422.8	99,780.80
Jun 2004 adj full service to agr	326.00	-127.4	-41,532.40
Jun 2004 adj full service to agr (Oceanside)	236.00	127.4	30,066.40
Jun 2004 adj full service to agr	326.00	-168.6	-54,983.60
Jun 2004 adj full service to agr (Olivenhain)	236.00	168.6	39,789.60
Jun 2004 adj full service to agr	326.00	-20.9	-6,813.40
Jun 2004 adj full service to agr (Poway)	236.00	20.9	4,932.40
Jun 2004 adj full service to agr	326.00	-221.6	-72,241.60
Jun 2004 adj full service to agr (Ramona)	236.00	221.6	52,297.60
Jun 2004 adj full service to agr	326.00	-18.6	-6,063.60
Jun 2004 adj full service to agr (City of San Diego)	236.00	18.6	4,389.60
Jun 2004 adj full service to agr	326.00	-20.0	-6,520.00
Jun 2004 adj full service to agr (Santa Fe Irrigation)	236.00	20.0	4,720.00
Jun 2004 adj full service to agr	326.00	-33.9	-11,051.40
Jun 2004 adj full service to agr (Vista)	236.00	33.9	8,000.40
JUN 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-2,869.0	-734,464.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-305.6	-78,233.60
JUN 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-5,277.8	-1,351,116.80
JUN 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-1,837.0	-470,272.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	2,869.0	734,464.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	5,534.4	1,416,806.40
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	1,837.0	470,272.00
Jul 2004 adj iid-sd exchange	326.00	-1,866.6	-543,311.60
Jul 2004 adj iid-sd exchange (San Diego CWA)	253.00		421,649.80
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	2,056.4	526,438.40
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	1,884.6	482,457.60
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	468.6	119,961.60
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	6,085.0	1,557,760.00
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	3,880.3	993,356.80
Adjustment Subtotal		12,659.2	3,431,904.00
SD-11 Total		29,375.7	8,881,483.00

Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 lppds contribution	170.00	192.1	-32,657.00
Adjustment Subtotal		192.1	-32,657.00
SD-DS1 Total		192.1	-32,657.00

Agency Name
San Diego County Water Authority

Invoice No. 4736 Rev. 0 Bill Period July 2004

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Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
JUL 2004 GRP	437.00	130.0	56,810.00
JUL 2004 GRP	687.00		-89,310.00
Adjustment Subtotal		130.0	-32,500.00
SD-GRP1 Total		130.0	-32,500.00

Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 lrp contribution	250.00	41.9	-10,475.00
Adjustment Subtotal		41.9	-10,475.00
SD-RCL1 Total		41.9	-10,475.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
No Address 1		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 contribution	225.00	410.9	-92,452.50
Adjustment Subtotal		410.9	-92,452.50
SD-RCL10 Total		410.9	-92,452.50

Meter No SD-RCL12

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 lrp contribution	250.00	96.5	-24,125.00
Adjustment Subtotal		96.5	-24,125.00
SD-RCL12 Total		96.5	-24,125.00

Meter No SD-RCL13

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 contribution	250.00	148.8	-37,200.00
Jul 2004 contribution	250.00	156.1	-39,025.00
Adjustment Subtotal		304.9	-76,225.00
SD-RCL13 Total		304.9	-76,225.00

Agency Name
San Diego County Water Authority

Invoice No. 4736 Rev. 0 Bill Period July 2004

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Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 contribution voided	150.00	-41.7	6,255.00
Jun 2004 contribution	150.00	51.2	-7,680.00
Jul 2004 contribution	150.00	43.9	-6,585.00
Adjustment Subtotal		53.4	-8,010.00
SD-RCL15 Total		53.4	-8,010.00

Meter No SD-RCL5

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
FEB 2004 LPPRE	113.00	4.0	452.00
FEB 2004 LPPRE	267.00		-1,068.00
MAR 2004 LPPRE	113.00	9.3	1,050.90
MAR 2004 LPPRE	267.00		-2,483.10
APR 2004 LPPRE	113.00	4.5	508.50
APR 2004 LPPRE	267.00		-1,201.50
Adjustment Subtotal		17.8	-2,741.20
SD-RCL5 Total		17.8	-2,741.20

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 lrp contribution	250.00	192.6	-48,150.00
Adjustment Subtotal		192.6	-48,150.00
SD-RCL6 Total		192.6	-48,150.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 lrp contribution	210.00	158.6	-33,306.00
Adjustment Subtotal		158.6	-33,306.00
SD-RCL8 Total		158.6	-33,306.00

Meter No SDTJ-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
San Diego-Tijuana	1	27934553	27934553	0	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Delivery Subtotal		0.0	0.00

Agency Name
San Diego County Water Authority

Invoice No. 4736 Rev. 0 Bill Period July 2004 Page No. 7 of 7 Mailed On 08-10-04 Due On 09-30-04

SDTJ-01A Total 0.0 0.00

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag.# 35244	-16,662.50
Conservation Ag.# 39089	-8,699.50
Conservation Ag.# 55346	-371,100.00
Tier 2 Surcharge adjustment for prior year 2003	-18,581.40

VOLUME TOTAL	78,442.9	INVOICE TOTAL	\$25,545,638.50
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This invoice was printed on 8/9/2004 at 7:47:08AM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

August 2004	Page No. 1 of 2
Mailed: 09/10/2004	Due Date: 10/29/2004
Invoice Number: 4764	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	32,188.0
Total Water Untreated Delivered	30,331.9

SALES	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	48,737.4	\$73.00	\$3,557,830.20
	System Access Rate	48,737.4	\$163.00	\$7,944,196.20
	Water Stewardship Rate	48,737.4	\$30.00	\$1,462,122.00
	System Power Rate	48,737.4	\$60.00	\$2,924,244.00
	Treatment Surcharge	21,288.5	\$92.00	\$1,958,542.00
IAWP	Treated	10,572.0		\$3,213,888.00
	Untreated	1,216.3		\$287,046.80
SUBTOTAL				\$21,347,869.20

MISCELLANEOUS SALES	Volume (AF)	Total (\$)
Surface Storage Operating Agreement - Untreated, Scheduled	13,740.2	\$3,517,491.20
		\$3,517,491.20

WATER MANAGEMENT	Volume (AF)	Total (\$)
Local Resource Programs	1,678.2	(\$349,767.80)
SUBTOTAL		(\$349,767.80)

EXCHANGES, WHEELING, AND OTHER DELIVERIES	Volume (AF)	Total (\$)
Tijuana Emergency Deliveries and Losses	339.3	\$139,428.55
IID San Diego Exchange UnTreated	1,666.7	\$421,675.10
		\$581,103.65

OTHER CHARGES AND CREDITS	Rate (\$ /AF)	Total (\$)
Conservation Credit		(\$55,646.00)
SUBTOTAL		(\$55,646.00)

ADDITIONAL INFORMATION	Volume (AF)	Tier1 %	Peak Day	Flow (CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,338,035.2			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	923,758.7			
Tier 1 Annual Limit (For Current Year)	500,705.3			
Tier 1 YTD Deliveries (For Current Year)	396,559.4	79.0		
Tier 1 Current Month Deliveries	62,477.6			
Requested Capacity				1,296.0
Annual Peak Flow			5/4/2004	1,373.5
Summer Peak Flow			5/4/2004	1,373.5

Agency Name
San Diego County Water Authority

Invoice No. 4764 Rev. 0 Bill Period August 2004 Page No. 2 of 2

Mailed On 09-10-04 Due On 10-29-04

DTX-1130

INVOICE TOTAL

Volume AF
76,283.4

Amount Now Due
\$25,021,050.25

Note: Invoice is based on the actual consumption of water



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4764	0	August 2004	1 of 8	09-10-04	10-29-04

Meter No SD-01A						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	15719524	15932819	213295000	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	4,896.6	357,451.80
System Access Rate	163.00	4,896.6	798,145.80
Water Stewardship Rate	30.00	4,896.6	146,898.00
System Power Rate	60.00	4,896.6	293,796.00
Treatment Surcharge	92.00	4,896.6	450,487.20
Delivery Subtotal		4,896.6	2,046,778.80
SD-01A Total		4,896.6	2,046,778.80

Meter No SD-01B						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	15310881	15523809	212928000	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	4,888.2	356,838.60
System Access Rate	163.00	4,888.2	796,776.60
Water Stewardship Rate	30.00	4,888.2	146,646.00
System Power Rate	60.00	4,888.2	293,292.00
Treatment Surcharge	92.00	4,888.2	449,714.40
Delivery Subtotal		4,888.2	2,043,267.60
SD-01B Total		4,888.2	2,043,267.60

Meter No SD-02						
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.	
w/o Rainbow Glen Rd.	100	13684034	14002003	31786900	Unbundled	

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	730.0	53,290.00
System Access Rate	163.00	730.0	118,990.00
Water Stewardship Rate	30.00	730.0	21,900.00
System Power Rate	60.00	730.0	43,800.00
Treatment Surcharge	92.00	730.0	67,160.00
Delivery Subtotal		730.0	305,140.00
SD-02 Total		730.0	305,140.00

Agency Name
San Diego County Water Authority

Invoice No. 4764 Rev. 0 Bill Period August 2004 Page No. 2 of 8 Mailed On 09-10-04 Due On 10-29-04

Meter No SD-03

Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	45511272	46055712	544440000	Unbundled

--- DELIVERIES ---			Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate			73.00	12,498.6	912,397.80
System Access Rate			163.00	12,498.6	2,037,271.80
Water Stewardship Rate			30.00	12,498.6	374,958.00
System Power Rate			60.00	12,498.6	749,916.00
Delivery Subtotal				12,498.6	4,074,543.60
SD-03 Total				12,498.6	4,074,543.60

Meter No SD-05

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
s/o Reche Rd. w/o Wilt Rd.	100	3022795	3208316	18552100	Unbundled

--- DELIVERIES ---			Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate			73.00	425.9	31,090.70
System Access Rate			163.00	425.9	69,421.70
Water Stewardship Rate			30.00	425.9	12,777.00
System Power Rate			60.00	425.9	25,554.00
Treatment Surcharge			92.00	425.9	39,182.80
Delivery Subtotal				425.9	178,026.20
SD-05 Total				425.9	178,026.20

Meter No SD-07

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	82709208	83602456	893248000	Unbundled

--- DELIVERIES ---			Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate			73.00	20,506.2	1,496,952.80
System Access Rate			163.00	20,506.2	3,342,510.60
Water Stewardship Rate			30.00	20,506.2	615,186.00
System Power Rate			60.00	20,506.2	1,230,372.00
Treatment Surcharge			92.00	20,506.2	1,886,570.40
Delivery Subtotal				20,506.2	8,571,591.80

--- ADJUSTMENT ---			Rate Per AF	Volume AF	Amount
Jun 2004 adj full service to agr	voided		418.00	80.7	33,732.60
Jun 2004 adj full service to agr	voided	(Carlsbad Municipal)	304.00	-80.7	-24,532.80
Jun 2004 adj full service to agr	voided		418.00	911.0	380,798.00
Jun 2004 adj full service to agr	voided	(Fallbrook)	304.00	-911.0	-276,944.00
Jun 2004 adj full service to agr	voided		418.00	66.5	27,797.00
Jun 2004 adj full service to agr	voided	(Oceanside)	304.00	-66.5	-20,216.00
Jun 2004 adj full service to agr	voided		418.00	22.8	9,530.40
Jun 2004 adj full service to agr	voided	(Olivenhain)	304.00	-22.8	-6,931.20
Jun 2004 adj full service to agr	voided		418.00	8.5	3,553.00
Jun 2004 adj full service to agr	voided	(Otay)	304.00	-8.5	-2,584.00
Jun 2004 adj full service to agr	voided		418.00	292.0	122,056.00
Jun 2004 adj full service to agr	voided	(Padre Dam)	304.00	-292.0	-88,768.00
Jun 2004 adj full service to agr	voided		418.00	2,399.8	1,003,116.40
Jun 2004 adj full service to agr	voided	(Rainbow)	304.00	-2,399.8	-729,539.20
Jun 2004 adj full service to agr	voided		418.00	263.7	110,226.60
Jun 2004 adj full service to agr	voided	(Ramona)	304.00	-263.7	-80,164.80
Jun 2004 adj full service to agr	voided		418.00	99.4	41,549.20
Jun 2004 adj full service to agr	voided	(Rincon)	304.00	-99.4	-30,217.60

Agency Name
San Diego County Water Authority

Invoice No. 4764 Rev. 0 Bill Period August 2004

Page No. 3 of 8 Mailed On 09-10-04 Due On 10-29-04

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 adj full service to agr voided	418.00	5.0	2,090.00
Jun 2004 adj full service to agr voided (City of San Diego)	304.00	-5.0	-1,520.00
Jun 2004 adj full service to agr voided	418.00	291.8	121,972.40
Jun 2004 adj full service to agr voided (Vallecitos)	304.00	-291.8	-88,707.20
Jun 2004 adj full service to agr voided	418.00	4,016.1	1,678,729.80
Jun 2004 adj full service to agr voided (Valley Center)	304.00	-4,016.1	-1,220,894.40
Jun 2004 adj full service to agr voided	418.00	60.0	25,080.00
Jun 2004 adj full service to agr voided (Vista)	304.00	-60.0	-18,240.00
Jun 2004 adj full service to agr voided	418.00	496.9	207,704.20
Jun 2004 adj full service to agr voided (Yuima)	304.00	-496.9	-151,057.60
Jun 2004 adj full service to agr	418.00	-80.4	-33,607.20
Jun 2004 adj full service to agr (Carlsbad Municipal)	304.00	80.4	24,441.60
Jun 2004 adj full service to agr	418.00	-907.5	-379,335.00
Jun 2004 adj full service to agr (Fallbrook)	304.00	907.5	275,880.00
Jun 2004 adj full service to agr	418.00	-66.3	-27,713.40
Jun 2004 adj full service to agr (Oceanside)	304.00	66.3	20,155.20
Jun 2004 adj full service to agr	418.00	-22.7	-9,488.80
Jun 2004 adj full service to agr (Olivenhain)	304.00	22.7	6,900.80
Jun 2004 adj full service to agr	418.00	-8.4	-3,511.20
Jun 2004 adj full service to agr (Otay)	304.00	8.4	2,553.60
Jun 2004 adj full service to agr	418.00	-290.9	-121,596.20
Jun 2004 adj full service to agr (Padre Dam)	304.00	290.9	88,433.60
Jun 2004 adj full service to agr	418.00	-262.7	-109,808.80
Jun 2004 adj full service to agr (Ramona)	304.00	262.7	79,860.80
Jun 2004 adj full service to agr	418.00	-99.0	-41,382.00
Jun 2004 adj full service to agr (Rincon)	304.00	99.0	30,096.00
Jun 2004 adj full service to agr	418.00	-5.0	-2,090.00
Jun 2004 adj full service to agr (City of San Diego)	304.00	5.0	1,520.00
Jun 2004 adj full service to agr	418.00	-290.7	-121,512.60
Jun 2004 adj full service to agr (Vallecitos)	304.00	290.7	88,372.80
Jun 2004 adj full service to agr	418.00	-59.8	-24,996.40
Jun 2004 adj full service to agr (Vista)	304.00	59.8	18,179.20
Jun 2004 adj full service to agr	418.00	-494.9	-206,868.20
Jun 2004 adj full service to agr (Yuima)	304.00	494.9	150,449.60
Jun 2004 adj full service to agr	418.00	-2,390.9	-999,396.20
Jun 2004 adj full service to agr (Rainbow)	304.00	2,390.9	726,833.60
Jun 2004 adj full service to agr	418.00	-4,001.2	-1,672,501.60
Jun 2004 adj full service to agr (Valley Center)	304.00	4,001.2	1,216,364.80
Jul 2004 adj full service to agr	418.00	-92.8	-38,790.40
Jul 2004 adj full service to agr (Carlsbad Municipal)	304.00	92.8	28,211.20
Jul 2004 adj full service to agr	418.00	-1,248.8	-521,998.40
Jul 2004 adj full service to agr (Fallbrook)	304.00	1,248.8	379,635.20
Jul 2004 adj full service to agr	418.00	-99.0	-41,382.00
Jul 2004 adj full service to agr (Oceanside)	304.00	99.0	30,096.00
Jul 2004 adj full service to agr	418.00	-35.4	-14,797.20
Jul 2004 adj full service to agr (Olivenhain)	304.00	35.4	10,761.60
Jul 2004 adj full service to agr	418.00	-10.5	-4,389.00
Jul 2004 adj full service to agr (Otay)	304.00	10.5	3,192.00
Jul 2004 adj full service to agr	418.00	-2,839.1	-1,186,743.80
Jul 2004 adj full service to agr (Rainbow)	304.00	2,839.1	863,086.40
Jul 2004 adj full service to agr	418.00	-371.9	-155,454.20
Jul 2004 adj full service to agr (Ramona)	304.00	371.9	113,057.60
Jul 2004 adj full service to agr	418.00	-4.1	-1,713.80
Jul 2004 adj full service to agr (City of San Diego)	304.00	4.1	1,246.40
Jul 2004 adj full service to agr	418.00	-329.1	-137,563.80
Jul 2004 adj full service to agr (Vallecitos)	304.00	329.1	100,046.40
Jul 2004 adj full service to agr	418.00	-4,822.7	-2,015,888.60
Jul 2004 adj full service to agr (Valley Center)	304.00	4,822.7	1,466,100.80
Jul 2004 adj full service to agr	418.00	-77.7	-32,478.60
Jul 2004 adj full service to agr (Vista)	304.00	77.7	23,620.80
Jul 2004 adj full service to agr	418.00	-674.5	-281,941.00
Jul 2004 adj full service to agr (Yuima)	304.00	674.5	205,048.00
Jul 2004 adj from full service to tjuana delivery	418.00	-327.5	-136,895.00

Agency Name
San Diego County Water Authority

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Adjustment Subtotal	-327.5	-1,342,080.20
SD-07 Total	20,178.7	7,229,511.40

Meter No SD-08					
Treated Domestic n/o Red Mtn. n/o Mission Rd.	Constant 100	Previous Reading 23630416	Current Reading 23818746	Volume (Cu. Ft.) 18833000	Rate Desc. Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	432.3	31,557.90
System Access Rate	163.00	432.3	70,464.90
Water Stewardship Rate	30.00	432.3	12,969.00
System Power Rate	60.00	432.3	25,938.00
Treatment Surcharge	92.00	432.3	39,771.60
Delivery Subtotal		432.3	180,701.40

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 adj full service to agr	418.00	-0.2	-83.60
Jul 2004 adj full service to agr (Santa Fe Irrigation)	304.00	0.2	60.80
Adjustment Subtotal		0.0	-22.80
SD-08 Total		432.3	180,678.60

Meter No SD-09					
Treated Domestic w/o Rainbow Glen. Rd. n/o Red Mtn.	Constant 100	Previous Reading 5491095	Current Reading 5625607	Volume (Cu. Ft.) 13451200	Rate Desc. Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	308.8	22,542.40
System Access Rate	163.00	308.8	50,334.40
Water Stewardship Rate	30.00	308.8	9,264.00
System Power Rate	60.00	308.8	18,528.00
Treatment Surcharge	92.00	308.8	28,409.60
Delivery Subtotal		308.8	129,078.40

SD-09 Total	308.8	129,078.40
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Meter No SD-11					
Untreated Domestic e/o Wilt Rd. n/o Dos Ninos Ave.	Constant 10,000	Previous Reading 9693296	Current Reading 9770978	Volume (Cu. Ft.) 776820000	Rate Desc. Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	17,833.3	1,301,830.90
System Access Rate	163.00	17,833.3	2,906,827.90
Water Stewardship Rate	30.00	17,833.3	534,999.00
System Power Rate	60.00	17,833.3	1,069,998.00
Delivery Subtotal		17,833.3	5,813,655.80

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 adj full service to agr voided	326.00	20.9	6,813.40
Jun 2004 adj full service to agr voided (Poway)	236.00	-20.9	-4,932.40
Jun 2004 adj full service to agr voided	326.00	422.8	137,832.80
Jun 2004 adj full service to agr voided (Escondido)	236.00	-422.8	-99,780.80
Jun 2004 adj full service to agr voided	326.00	127.4	41,532.40
Jun 2004 adj full service to agr voided (Oceanside)	236.00	-127.4	-30,066.40
Jun 2004 adj full service to agr voided	326.00	168.6	54,963.60

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4764	0	August 2004	5 of 8	09-10-04	10-29-04

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 adj full service to agr voided (Olivenhain)	236.00	-168.6	-39,789.60
Jun 2004 adj full service to agr voided	326.00	221.6	72,241.60
Jun 2004 adj full service to agr voided (Ramona)	236.00	-221.6	-52,207.60
Jun 2004 adj full service to agr voided	326.00	18.6	6,063.60
Jun 2004 adj full service to agr voided (City of San Diego)	236.00	-18.6	-4,389.60
Jun 2004 adj full service to agr voided	326.00	20.0	6,520.00
Jun 2004 adj full service to agr voided (Santa Fe Irrigation)	236.00	-20.0	-4,720.00
Jun 2004 adj full service to agr voided	326.00	33.9	11,051.40
Jun 2004 adj full service to agr voided (Vista)	236.00	-33.9	-8,000.40
Jun 2004 adj full service to agr	326.00	-421.2	-137,311.20
Jun 2004 adj full service to agr (Escondido)	236.00	421.2	99,403.20
Jun 2004 adj full service to agr	326.00	-126.9	-41,369.40
Jun 2004 adj full service to agr (Oceanside)	236.00	126.9	29,948.40
Jun 2004 adj full service to agr	326.00	-167.9	-54,735.40
Jun 2004 adj full service to agr (Olivenhain)	236.00	167.9	39,624.40
Jun 2004 adj full service to agr	326.00	-58.7	-19,136.20
Jun 2004 adj full service to agr (Poway)	236.00	58.7	13,853.20
Jun 2004 adj full service to agr	326.00	-220.7	-71,948.20
Jun 2004 adj full service to agr (Ramona)	236.00	220.7	52,085.20
Jun 2004 adj full service to agr	326.00	-18.5	-6,031.00
Jun 2004 adj full service to agr (City of San Diego)	236.00	18.5	4,366.00
Jun 2004 adj full service to agr	326.00	-19.9	-6,487.40
Jun 2004 adj full service to agr (Santa Fe Irrigation)	236.00	19.9	4,696.40
Jun 2004 adj full service to agr	326.00	-33.8	-11,018.80
Jun 2004 adj full service to agr (Vista)	236.00	33.8	7,976.80
JUN 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-2,869.0	-734,464.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-5,534.4	-1,416,806.40
JUN 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-1,837.0	-470,272.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	2,869.0	734,464.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	1,837.0	470,272.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	5,461.4	1,398,118.40
Jul 2004 adj full service to agr	326.00	-759.4	-247,564.40
Jul 2004 adj full service to agr (Escondido)	326.00	759.4	179,218.40
Jul 2004 adj full service to agr	326.00	-140.3	-45,737.80
Jul 2004 adj full service to agr (Oceanside)	236.00	140.3	33,110.80
Jul 2004 adj full service to agr	326.00	-167.1	-54,474.80
Jul 2004 adj full service to agr (Olivenhain)	236.00	167.1	39,435.60
Jul 2004 adj full service to agr	326.00	-38.1	-12,420.60
Jul 2004 adj full service to agr (Ramona)	236.00	38.1	8,991.60
Jul 2004 adj full service to agr	326.00	-18.8	-6,128.80
Jul 2004 adj full service to agr (City of San Diego)	236.00	18.8	4,436.80
Jul 2004 adj full service to agr	326.00	-35.8	-11,670.80
Jul 2004 adj full service to agr (Santa Fe Irrigation)	236.00	35.8	8,448.80
Jul 2004 adj full service to agr	326.00	-23.0	-7,498.00
Jul 2004 adj full service to agr (Vista)	236.00	23.0	5,428.00
JUL 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-2,056.4	-526,438.40
JUL 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-1,884.6	-482,457.60
JUL 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-468.6	-119,961.60
JUL 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-6,085.0	-1,557,760.00
JUL 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-3,880.3	-993,356.80
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	2,056.4	526,438.40
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	1,884.6	482,457.60
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	541.6	138,649.60
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	6,085.0	1,557,760.00
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	3,930.3	1,006,156.80
Aug 2004 adj from full service to exchange	326.00	-1,666.7	-543,344.20
Aug 2004 adj from full service to exchange (San Diego CWA)	253.00		421,675.10
AUG 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	597.7	153,011.20
AUG 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	6,633.7	1,698,227.20
AUG 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	6,458.8	1,653,452.80
Adjustment Subtotal		12,073.5	3,266,355.10

MWD2010-00274721

Agency Name
San Diego County Water Authority

Invoice No. 4764 Rev. 0 Bill Period August 2004

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SD-11 Total 29,906.8 8,100,010.90

Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2004 lppds contribution	170.00	257.3	-43,741.00
Adjustment Subtotal		257.3	-43,741.00
SD-DS1 Total		257.3	-43,741.00

Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
AUG 2004 GRP	437.00	123.6	54,013.20
AUG 2004 GRP	687.00		-84,913.20
Adjustment Subtotal		123.6	-30,900.00
SD-GRP1 Total		123.6	-30,900.00

Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2004 lrp contribution	250.00	48.8	-12,200.00
Adjustment Subtotal		48.8	-12,200.00
SD-RCL1 Total		48.8	-12,200.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
No Address 1		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 contribution	200.00	580.2	-116,040.00
Adjustment Subtotal		580.2	-116,040.00
SD-RCL10 Total		580.2	-116,040.00

Meter No SD-RCL12

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 lrp contribution	250.00	100.2	-25,050.00
Adjustment Subtotal		100.2	-25,050.00
SD-RCL12 Total		100.2	-25,050.00

Agency Name
San Diego County Water Authority

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Meter No SD-RCL13

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2004 contribution	250.00	162.9	-40,725.00
Adjustment Subtotal		162.9	-40,725.00
SD-RCL13 Total		162.9	-40,725.00

Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2004 contribution	150.00	54.2	-8,130.00
Adjustment Subtotal		54.2	-8,130.00
SD-RCL15 Total		54.2	-8,130.00

Meter No SD-RCL5

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
JUN 2004 LPPRE	113.00	4.0	452.00
JUN 2004 LPPRE	267.00		-1,068.00
JUL 2004 LPPRE	113.00	8.9	1,005.70
JUL 2004 LPPRE	267.00		-2,376.30
AUG 2004 LPPRE	113.00	21.6	2,440.80
AUG 2004 LPPRE	267.00		-5,767.20
Adjustment Subtotal		34.5	-5,313.00
SD-RCL5 Total		34.5	-5,313.00

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 lrp contribution	250.00	112.4	-28,100.00
Adjustment Subtotal		112.4	-28,100.00
SD-RCL6 Total		112.4	-28,100.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 lrp contribution	200.00	176.9	-35,380.00
Adjustment Subtotal		176.9	-35,380.00

Agency Name
San Diego County Water Authority

Invoice No. 4764 Rev. 0 Bill Period August 2004 Page No. 8 of 8 Mailed On 09-10-04 Due On 10-29-04

SD-RCL8 Total 176.9 -35,380.00

Meter No SD-RCL9

Reclaimed	Constant	Previous Reading N/A	Current Reading N/A	Volume (Cu. Ft.) N/A	Rate Desc. Unbundled
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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
May 2004 lppre voided	113.00	-27.9	-3,152.70
May 2004 lppre voided	267.00		7,449.30
MAY 2004 LPPRE	113.00	26.5	2,994.50
MAY 2004 LPPRE	267.00		-7,075.50
JUL 2004 LPPRE	113.00	28.6	3,231.80
JUL 2004 LPPRE	267.00		-7,636.20
Adjustment Subtotal		27.2	-4,188.80

SD-RCL9 Total 27.2 -4,188.80

Meter No SDTJ-01A

Treated Domestic San Diego-Tijuana	Constant 133.68	Previous Reading 102724	Current Reading 102724	Volume (Cu. Ft.) 0	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
System Access Rate METER CORRECTION JULY 2004	163.00	314.9	51,328.70
Water Stewardship Rate METER CORRECTION JULY 2004	30.00	314.9	9,447.00
Treatment Surcharge METER CORRECTION JULY 2004	92.00	314.9	28,970.80
Variable Power Rate METER CORRECTION JULY 2004	125.93	314.9	39,655.38
Delivery Subtotal		314.9	129,401.86

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
OTAY Loss for Tijuana Delivery (Otay)	410.93	9.4	3,862.74
SD Loss for Tijuana Delivery (San Diego CWA)	410.93	3.2	1,314.98
MWD Loss for Tijuana Delivery	410.93	11.8	4,848.97
Adjustment Subtotal		24.4	10,026.69

SDTJ-01A Total 339.3 139,428.55

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag.# 39099	-7,356.00
Conservation Ag.# 55708	-48,290.00

VOLUME TOTAL 76,283.4 INVOICE TOTAL \$25,021,050.25

This invoice was printed on 9/9/2004 at 12:08:00PM

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

700 North Alameda Street

Los Angeles, CA, 90012-2944

INVOICE**Billed To:**

San Diego County Water Authority

San Diego County
Water Authority**Service Address**4677 Overland Avenue
San Diego, Ca. 92123-1233

September 2004	Page No. 1 of 2
Mailed: 10/08/2004	Due Date: 11/30/2004
Invoice Number: 4792	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	30,132.4
Total Water Untreated Delivered	30,699.2

SALES	Type	Volume (AF)	Rate (\$/AF)	Total (\$)
Full Service	Tier 1 Supply Rate	47,714.4	\$73.00	\$3,483,151.20
	System Access Rate	47,714.4	\$163.00	\$7,777,447.20
	Water Stewardship Rate	47,714.4	\$30.00	\$1,431,432.00
	System Power Rate	47,714.4	\$60.00	\$2,862,864.00
	Treatment Surcharge	19,659.9	\$92.00	\$1,808,710.80
IAWP	Treated	10,472.5		\$3,183,640.00
	Untreated	978.0		\$230,808.00
SUBTOTAL				\$20,778,053.20

MISCELLANEOUS SALES

Surface Storage Operating Agreement - Treated, Called	83.0	\$25,979.00
Surface Storage Operating Agreement - Treated, Scheduled	1.3	\$452.40
Surface Storage Operating Agreement - Untreated, Called	231.3	\$51,117.30
Surface Storage Operating Agreement - Untreated, Scheduled	14,702.9	\$3,763,942.40
		\$3,841,491.10

WATER MANAGEMENT

WATER MANAGEMENT	Volume (AF)	Total (\$)
Local Resource Programs	1,510.1	(\$323,481.20)
SUBTOTAL		(\$323,481.20)

EXCHANGES, WHEELING, AND OTHER DELIVERIES

IID San Diego Exchange UnTreated	1,666.7	\$421,675.10
		\$421,675.10

OTHER CHARGES AND CREDITS

OTHER CHARGES AND CREDITS	Volume (AF)	Rate (\$/AF)	Total (\$)
Conservation Credit			(\$71,940.00)
Tier 2 Surcharge for 2003	680.3	\$81.00	(\$55,104.30)
Miscellaneous Debit/Credit (See Detail)			(\$637,102.71)
SUBTOTAL			(\$764,147.01)



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

September 2004	Page No. 2 of 2
Mailed: 10/08/2004	Due Date: 11/30/2004
Invoice Number: 4792	Revision: 0

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ADDITIONAL INFORMATION

	Volume (AF)	Tier1 %	Peak Day	Flow(CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,342,570.6			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	986,491.6			
Tier 1 Annual Limit (For Current Year)	501,385.6			
Tier 1 YTD Deliveries (For Current Year)	459,280.5	92.0		
Tier 1 Current Month Deliveries	62,732.9			
Requested Capacity				1,296.0
Annual Peak Flow			5/4/2004	1,373.5
Summer Peak Flow			5/4/2004	1,373.5

INVOICE TOTAL

Volume AF
75,693.5

Amount Now Due
\$23,953,591.19



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name San Diego County Water Authority	Invoice No. 4792	Rev. 0	Bill Period September 2004	Page No. 1 of 7	Mailed On 10-08-04	Due On 11-30-04
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Meter No SD-01A

Treated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	Constant 1,000	Previous Reading 15932819	Current Reading 16141258	Volume (Cu. Ft.) 208439000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	4,785.1	349,312.30
System Access Rate	163.00	4,785.1	779,971.30
Water Stewardship Rate	30.00	4,785.1	143,553.00
System Power Rate	60.00	4,785.1	287,106.00
Treatment Surcharge	92.00	4,785.1	440,229.20
Delivery Subtotal		4,785.1	2,000,171.80
SD-01A Total		4,785.1	2,000,171.80

Meter No SD-01B

Treated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	Constant 1,000	Previous Reading 15523809	Current Reading 15731580	Volume (Cu. Ft.) 207771000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	4,769.8	348,195.40
System Access Rate	163.00	4,769.8	777,477.40
Water Stewardship Rate	30.00	4,769.8	143,094.00
System Power Rate	60.00	4,769.8	286,188.00
Treatment Surcharge	92.00	4,769.8	438,821.60
Delivery Subtotal		4,769.8	1,993,776.40
SD-01B Total		4,769.8	1,993,776.40

Meter No SD-02

Treated Domestic w/o Rainbow Glen Rd.	Constant 100	Previous Reading 14002003	Current Reading 14331033	Volume (Cu. Ft.) 32903000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	755.3	55,136.90
System Access Rate	163.00	755.3	123,113.90
Water Stewardship Rate	30.00	755.3	22,659.00
System Power Rate	60.00	755.3	45,318.00
Treatment Surcharge	92.00	755.3	69,487.60
Delivery Subtotal		755.3	315,715.40
SD-02 Total		755.3	315,715.40

Agency Name
San Diego County Water Authority

Invoice No. 4792 Rev. 0 Bill Period September 2004 Page No. 2 of 7 Mailed On 10-08-04 Due On 11-30-04

Meter No SD-03

Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	46055712	46625592	569880000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	13,082.6	955,029.80
System Access Rate	163.00	13,082.6	2,132,463.80
Water Stewardship Rate	30.00	13,082.6	392,478.00
System Power Rate	60.00	13,082.6	784,956.00
Delivery Subtotal		13,082.6	4,264,927.60
SD-03 Total		13,082.6	4,264,927.60

Meter No SD-05

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
s/o Reche Rd. w/o Wilt Rd.	100	3208316	3465395	25707900	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	590.2	43,084.60
System Access Rate	163.00	590.2	96,202.60
Water Stewardship Rate	30.00	590.2	17,706.00
System Power Rate	60.00	590.2	35,412.00
Treatment Surcharge	92.00	590.2	54,298.40
Delivery Subtotal		590.2	246,703.60
SD-05 Total		590.2	246,703.60

Meter No SD-07

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	83602456	84409120	806664000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	18,518.5	1,351,850.50
System Access Rate	163.00	18,518.5	3,018,515.50
Water Stewardship Rate	30.00	18,518.5	555,555.00
System Power Rate	60.00	18,518.5	1,111,110.00
Treatment Surcharge	92.00	18,518.5	1,703,702.00
Delivery Subtotal		18,518.5	7,740,733.00

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 adj full service to agr	418.00	-0.2	-83.60
Jul 2004 adj full service to agr (Santa Fe Irrigation)	304.00	0.2	60.80
Jul 2004 adj full service to agr voided	418.00	371.9	155,454.20
Jul 2004 adj full service to agr voided (Ramona)	304.00	-371.9	-113,057.60
Jul 2004 adj full service to agr	418.00	-289.3	-120,927.40
Jul 2004 adj full service to agr (Ramona)	304.00	289.3	87,947.20
Jul 2004 adj full service to agr	418.00	-104.7	-43,764.80
Jul 2004 adj full service to agr (Rincon)	304.00	104.7	31,828.80
Aug 2004 adj full service to agr	418.00	-92.1	-38,497.80
Aug 2004 adj full service to agr (Carlsbad Municipal)	304.00	92.1	27,998.40
Aug 2004 adj full service to agr	418.00	-1,180.8	-493,574.40
Aug 2004 adj full service to agr (Fallbrook)	304.00	1,180.8	358,963.20
Aug 2004 adj full service to agr	418.00	-509.6	-213,012.80
Aug 2004 adj full service to agr (Ramona)	304.00	509.6	154,918.40
Aug 2004 adj full service to agr	418.00	-102.5	-42,845.00
Aug 2004 adj full service to agr (Rincon)	304.00	102.5	31,160.00
Aug 2004 adj full service to agr	418.00	-0.4	-167.20
Aug 2004 adj full service to agr (City of San Diego)	304.00	0.4	121.60

Agency Name
San Diego County Water Authority

Invoice No. 4792 Rev. 0 Bill Period September 2004 Page No. 3 of 7 Mailed On 10-08-04 Due On 11-30-04

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2004 adj full service to agr	418.00	-0.1	-41.80
Aug 2004 adj full service to agr (Santa Fe Irrigation)	304.00	0.1	30.40
Aug 2004 adj full service to agr	418.00	-319.7	-133,634.60
Aug 2004 adj full service to agr (Vallecitos)	304.00	319.7	97,188.80
Aug 2004 adj full service to agr	418.00	-4,598.3	-1,922,089.40
Aug 2004 adj full service to agr (Valley Center)	304.00	4,598.3	1,397,883.20
Aug 2004 adj full service to agr	418.00	-71.8	-30,012.40
Aug 2004 adj full service to agr (Vista)	304.00	71.8	21,827.20
Aug 2004 adj full service to agr	418.00	-667.6	-279,056.80
Aug 2004 adj full service to agr (Yuima)	304.00	667.6	202,950.40
Aug 2004 adj full service to agr	418.00	-93.1	-38,915.80
Aug 2004 adj full service to agr (Oceanside)	304.00	93.1	28,302.40
Aug 2004 adj full service to agr	418.00	-34.2	-14,295.60
Aug 2004 adj full service to agr (Olivenhain)	304.00	34.2	10,396.80
Aug 2004 adj full service to agr	418.00	-15.5	-6,479.00
Aug 2004 adj full service to agr (Otay)	304.00	15.5	4,712.00
Aug 2004 adj full service to agr	418.00	-2,764.7	-1,155,644.80
Aug 2004 adj full service to agr (Rainbow)	304.00	2,764.7	840,468.80
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	348.00	1.3	452.40
SEP 2004 ADJ Surface Storage TO Called SOLD (San Diego CWA)	313.00	83.0	25,979.00
Adjustment Subtotal		84.3	-1,167,456.40
SD-07 Total		18,602.8	6,573,276.80

Meter No SD-08

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
n/o Red Mtn. n/o Mission Rd.	100	23818746	24000256	18151000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	416.7	30,419.10
System Access Rate	163.00	416.7	67,922.10
Water Stewardship Rate	30.00	416.7	12,501.00
System Power Rate	60.00	416.7	25,002.00
Treatment Surcharge	92.00	416.7	38,336.40
Delivery Subtotal		416.7	174,180.60

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 adj full service to agr voided	418.00	0.2	83.60
Jul 2004 adj full service to agr voided (Santa Fe Irrigation)	304.00	-0.2	-60.80
Adjustment Subtotal		0.0	22.80
SD-08 Total		416.7	174,203.40

Meter No SD-09

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
w/o Rainbow Glen. Rd. n/o Red Mtn.	100	5625607	5754883	12927600	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	296.8	21,666.40
System Access Rate	163.00	296.8	48,378.40
Water Stewardship Rate	30.00	296.8	8,904.00
System Power Rate	60.00	296.8	17,808.00
Treatment Surcharge	92.00	296.8	27,305.60
Delivery Subtotal		296.8	124,062.40
SD-09 Total		296.8	124,062.40

Agency Name
San Diego County Water Authority

Invoice No. 4792 Rev. 0 Bill Period September 2004 Page No. 4 of 7 Mailed On 10-08-04 Due On 11-30-04

Meter No SD-11

Untreated Domestic e/o Wilt Rd. n/o Dos Ninos Ave.	Constant 10,000	Previous Reading 9770978	Current Reading 9847716	Volume (Cu. Ft.) 767380000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	17,616.6	1,286,011.80
System Access Rate	163.00	17,616.6	2,871,505.80
Water Stewardship Rate	30.00	17,616.6	528,498.00
System Power Rate	60.00	17,616.6	1,056,996.00
Delivery Subtotal		17,616.6	5,743,011.60

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 adj full service to agr voided	326.00	35.8	11,670.80
Jul 2004 adj full service to agr voided (Santa Fe Irrigation)	236.00	-35.8	-8,448.80
Jul 2004 adj full service to agr (Santa Fe Irrigation)	326.00	-35.8	-11,670.80
Jul 2004 adj full service to agr voided	326.00	35.8	8,448.80
Jul 2004 adj full service to agr voided (Ramona)	326.00	38.1	12,420.60
Jul 2004 adj full service to agr voided (Ramona)	236.00	-38.1	-8,991.60
Jul 2004 adj full service to agr (Ramona)	326.00	-29.7	-9,682.20
Jul 2004 adj full service to agr (Ramona)	236.00	29.7	7,009.20
JUL 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-2,056.4	-526,438.40
JUL 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-1,884.6	-482,457.60
JUL 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-541.6	-138,649.60
JUL 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-6,085.0	-1,557,760.00
JUL 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-3,930.3	-1,006,158.80
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	2,056.4	526,438.40
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	1,884.6	482,457.60
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	541.6	138,649.60
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	6,085.0	1,557,760.00
JUL 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	3,961.3	1,014,092.80
Aug 2004 adj full service to agr	326.00	-614.4	-200,294.40
Aug 2004 adj full service to agr (Escondido)	236.00	614.4	144,998.40
Aug 2004 adj full service to agr	326.00	-2.2	-717.20
Aug 2004 adj full service to agr (City of San Diego)	236.00	2.2	519.20
Aug 2004 adj full service to agr	326.00	-18.0	-5,868.00
Aug 2004 adj full service to agr (Santa Fe Irrigation)	236.00	18.0	4,248.00
Aug 2004 adj full service to agr	326.00	-22.9	-7,465.40
Aug 2004 adj full service to agr (Vista)	236.00	22.9	5,404.40
Aug 2004 adj full service to agr	326.00	-133.5	-43,521.00
Aug 2004 adj full service to agr (Oceanside)	236.00	133.5	31,506.00
Aug 2004 adj full service to agr	326.00	-195.4	-63,700.40
Aug 2004 adj full service to agr (Olivenhain)	236.00	195.4	46,114.40
AUG 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-597.7	-153,011.20
AUG 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-6,833.7	-1,698,227.20
AUG 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-6,458.8	-1,653,452.80
AUG 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	597.7	153,011.20
AUG 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	6,602.7	1,690,291.20
AUG 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	6,522.8	1,669,836.80
Sep 2004 adj from full service to exchange	326.00	-1,666.7	-543,344.20
Sep 2004 adj from full service to exchange (San Diego CWA)	253.00		421,675.10
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	600.0	153,600.00
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	9,793.7	2,507,187.20
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	4,245.2	1,086,771.20
SEP 2004 ADJ Surface Storage TO Called SOLD (San Diego CWA)	221.00	231.3	51,117.30
Adjustment Subtotal		13,267.5	3,605,370.60
SD-11 Total		30,884.1	9,348,382.20

Agency Name
San Diego County Water Authority

Invoice No. 4792 Rev. 0 Bill Period September 2004 Page No. 5 of 7 Mailed On 10-08-04 Due On 11-30-04

Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 lppds contribution	170.00	205.2	-34,884.00
Adjustment Subtotal		205.2	-34,884.00
SD-DS1 Total		205.2	-34,884.00

Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
SEP 2004 GRP	437.00	119.7	52,308.90
SEP 2004 GRP	687.00		-82,233.90
Adjustment Subtotal		119.7	-29,925.00
SD-GRP1 Total		119.7	-29,925.00

Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 lrp contribution	250.00	44.7	-11,175.00
Adjustment Subtotal		44.7	-11,175.00
SD-RCL1 Total		44.7	-11,175.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
No Address 1		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2004 contribution	200.00	410.8	-82,160.00
Adjustment Subtotal		410.8	-82,160.00
SD-RCL10 Total		410.8	-82,160.00

Meter No SD-RCL11

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 contribution	250.00	11.0	-2,750.00
Adjustment Subtotal		11.0	-2,750.00
SD-RCL11 Total		11.0	-2,750.00

Agency Name
San Diego County Water Authority

Invoice No. 4792 Rev. 0 Bill Period September 2004 Page No. 6 of 7 Mailed On 10-08-04 Due On 11-30-04

Meter No SD-RCL12

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2004 lrp contribution	250.00	91.4	-22,850.00
Sep 2004 lrp contribution	250.00	120.7	-30,175.00
Adjustment Subtotal		212.1	-53,025.00
SD-RCL12 Total		212.1	-53,025.00

Meter No SD-RCL13

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 contribution	250.00	133.8	-33,450.00
Adjustment Subtotal		133.8	-33,450.00
SD-RCL13 Total		133.8	-33,450.00

Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 contribution	150.00	54.6	-8,190.00
Adjustment Subtotal		54.6	-8,190.00
SD-RCL15 Total		54.6	-8,190.00

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2004 lrp contribution	250.00	112.6	-28,150.00
Adjustment Subtotal		112.6	-28,150.00
SD-RCL6 Total		112.6	-28,150.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2004 lrp contribution	200.00	176.3	-35,260.00
Adjustment Subtotal		176.3	-35,260.00
SD-RCL8 Total		176.3	-35,260.00

Agency Name
San Diego County Water Authority

Invoice No. 4792 Rev. 0 Bill Period September 2004 Page No. 7 of 7 Mailed On 10-08-04 Due On 11-30-04

Meter No SD-RCL9

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
AUG 2004 LPPRE	113.00	29.3	3,310.90
AUG 2004 LPPRE	267.00		-7,823.10
Adjustment Subtotal		29.3	-4,512.20
SD-RCL9 Total		29.3	-4,512.20

Meter No SDTJ-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
San Diego-Tijuana	133.68	102724	102724	0	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Delivery Subtotal		0.0	0.00
SDTJ-01A Total		0.0	0.00

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag # 55708	-71,940.00
RTS adjustment for FY 2003/04	-373,614.71
RTS adjustment: credit due to the RTS allocation error CY 2004	-263,488.00
Tier 2 Surcharge adjustment for prior year 2003	-55,104.30

VOLUME TOTAL	INVOICE TOTAL
75,693.5	\$23,953,591.19

This invoice was printed on 10/7/2004 at 9:14:17AM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

October 2004	Page No. 1 of 2
Mailed: 11/10/2004	Due Date: 12/30/2004
Invoice Number: 4820	Revision: 0

NOTICE
The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	17,753.5
Total Water Untreated Delivered	39,227.3

SALES	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	33,087.6	\$73.00	\$2,415,394.80
	System Access Rate	33,087.6	\$163.00	\$5,393,278.80
	Water Stewardship Rate	33,087.6	\$30.00	\$992,628.00
	System Power Rate	33,087.6	\$60.00	\$1,985,256.00
	Treatment Surcharge	6,372.0	\$92.00	\$586,224.00
IAWP	Treated	11,381.5		\$3,459,976.00
	Untreated	1,097.1		\$258,915.60
SUBTOTAL				\$15,091,673.20

MISCELLANEOUS SALES	Volume (AF)	Total (\$)
Surface Storage Operating Agreement - Untreated, Scheduled	-202.0	(\$51,712.00)
		(\$51,712.00)

WATER MANAGEMENT	Volume (AF)	Total (\$)
Local Resource Programs	1,253.4	(\$260,124.00)
SUBTOTAL		(\$260,124.00)

EXCHANGES, WHEELING, AND OTHER DELIVERIES	Volume (AF)	Total (\$)
IID San Diego Exchange UnTreated	1,666.6	\$421,649.80
		\$421,649.80

OTHER CHARGES AND CREDITS	Rate (\$ /AF)	Total (\$)
Conservation Credit		(\$315,190.00)
Readiness To Serve Charge		\$5,140,104.00
Capacity Charge(Payment Schedule: S)		\$3,952,800.00
SUBTOTAL		\$8,777,714.00

ADDITIONAL INFORMATION	Volume (AF)	Tier1 %	Peak Day	Flow (CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,342,570.6			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	1,019,377.2			
Tier 1 Annual Limit (For Current Year)	501,385.6			
Tier 1 YTD Deliveries (For Current Year)	492,166.1	98.0		
Tier 1 Current Month Deliveries	32,885.6			
Requested Capacity				1,296.0
Annual Peak Flow			5/4/2004	1,373.5
Summer Peak Flow			5/4/2004	1,373.5

Agency Name
San Diego County Water Authority

Invoice No. 4820 Rev. 0 Bill Period October 2004 Page No. 2 of 2

Mailed On 11-10-04 Due On 12-30-04

INVOICE TOTAL

Volume AF

46,617.6

Amount Now Due

\$23,979,201.00

Bill No. 4820 DTX-1130 11/10/04 12:30:04 PM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4820	0	October 2004	1 of 7	11-10-04	12-30-04

Meter No SD-01A					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	16141258	16256804	115548000	Unbundled
--- DELIVERIES ---					
			Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate			73.00	2,652.6	193,639.80
System Access Rate			163.00	2,652.6	432,373.80
Water Stewardship Rate			30.00	2,652.6	79,578.00
System Power Rate			60.00	2,652.6	159,156.00
Treatment Surcharge			92.00	2,652.6	244,039.20
			Delivery Subtotal	2,652.6	1,108,786.80
			SD-01A Total	2,652.6	1,108,786.80

Meter No SD-01B					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	15731580	15846663	115083000	Unbundled
--- DELIVERIES ---					
			Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate			73.00	2,641.9	192,858.70
System Access Rate			163.00	2,641.9	430,829.70
Water Stewardship Rate			30.00	2,641.9	79,257.00
System Power Rate			60.00	2,641.9	158,514.00
Treatment Surcharge			92.00	2,641.9	243,054.80
			Delivery Subtotal	2,641.9	1,104,314.20
			SD-01B Total	2,641.9	1,104,314.20

Meter No SD-02					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
w/o Rainbow Glen Rd.	100	14331033	14461697	13066400	Unbundled
--- DELIVERIES ---					
			Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate			73.00	300.0	21,900.00
System Access Rate			163.00	300.0	48,900.00
Water Stewardship Rate			30.00	300.0	9,000.00
System Power Rate			60.00	300.0	18,000.00
Treatment Surcharge			92.00	300.0	27,600.00
Oct 2004, meter under 10% flow	Tier 1 supply rate		73.00	0.8	58.40
Oct 2004, meter under 10% flow	System access rate		163.00	0.8	130.40
Oct 2004, meter under 10% flow	Water stewardship rate		30.00	0.8	24.00
Oct 2004, meter under 10% flow	System power rate		60.00	0.8	48.00

Agency Name
San Diego County Water Authority

Invoice No. 4820 Rev. 0 Bill Period October 2004 Page No. 2 of 7 Mailed On 11-10-04 Due On 12-30-04

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Oct 2004, meter under 10% flow Treatment surcharge	92.00	0.8	73.60
Delivery Subtotal		300.8	125,734.40
SD-02 Total		300.8	125,734.40

Meter No SD-03					
Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	46625592	47261240	635648000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	14,592.5	1,065,252.50
System Access Rate	163.00	14,592.5	2,378,577.50
Water Stewardship Rate	30.00	14,592.5	437,775.00
System Power Rate	60.00	14,592.5	875,550.00
Delivery Subtotal		14,592.5	4,757,155.00
SD-03 Total		14,592.5	4,757,155.00

Meter No SD-05					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
s/o Reche Rd. w/o Wilt Rd.	100	3465395	3642587	17719200	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	406.8	29,696.40
System Access Rate	163.00	406.8	66,308.40
Water Stewardship Rate	30.00	406.8	12,204.00
System Power Rate	60.00	406.8	24,408.00
Treatment Surcharge	92.00	406.8	37,425.60
Delivery Subtotal		406.8	170,042.40
SD-05 Total		406.8	170,042.40

Meter No SD-07					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	84409120	84897088	487968000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	11,202.2	817,760.60
System Access Rate	163.00	11,202.2	1,825,958.60
Water Stewardship Rate	30.00	11,202.2	336,066.00
System Power Rate	60.00	11,202.2	672,132.00
Treatment Surcharge	92.00	11,202.2	1,030,802.40
Delivery Subtotal		11,202.2	4,682,519.60

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2004 adj full service to agr voided	418.00	289.3	120,927.40
Jul 2004 adj full service to agr voided (Ramona)	304.00	-289.3	-87,947.20
Jul 2004 adj full service to agr	418.00	-527.7	-220,578.60
Jul 2004 adj full service to agr (Ramona)	304.00	527.7	160,420.80
Jul 2004 adj full service to agr	418.00	-11.1	-4,639.80
Jul 2004 adj full service to agr (Padre Dam)	304.00	11.1	3,374.40
Aug 2004 adj full service to agr	418.00	-313.7	-131,126.60
Aug 2004 adj full service to agr (Padre Dam)	304.00	313.7	95,364.80
Sep 2004 adj full service to agr	418.00	-89.8	-37,536.40
Sep 2004 adj full service to agr (Carlsbad Municipal)	304.00	89.8	27,299.20

Agency Name
San Diego County Water Authority

Invoice No. 4820 Rev. 0 Bill Period October 2004

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Mailed On 11-10-04

Due On 12-30-04

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 adj full service to agr	418.00	-1,303.9	-545,030.20
Sep 2004 adj full service to agr (Fallbrook)	304.00	1,303.9	396,385.60
Sep 2004 adj full service to agr	418.00	-95.9	-40,086.20
Sep 2004 adj full service to agr (Oceanside)	304.00	95.9	29,153.60
Sep 2004 adj full service to agr	418.00	-29.4	-12,289.20
Sep 2004 adj full service to agr (Olivenhain)	304.00	29.4	8,937.60
Sep 2004 adj full service to agr	418.00	-15.6	-6,520.80
Sep 2004 adj full service to agr (Otay)	304.00	15.6	4,742.40
Sep 2004 adj full service to agr	418.00	-2,876.0	-1,202,168.00
Sep 2004 adj full service to agr (Rainbow)	304.00	2,876.0	874,304.00
Sep 2004 adj full service to agr	418.00	-576.0	-240,768.00
Sep 2004 adj full service to agr (Ramona)	304.00	576.0	175,104.00
Sep 2004 adj full service to agr	418.00	-2.6	-1,086.80
Sep 2004 adj full service to agr (City of San Diego)	304.00	2.6	790.40
Sep 2004 adj full service to agr	418.00	-0.2	-83.60
Sep 2004 adj full service to agr (Santa Fe Irrigation)	304.00	0.2	60.80
Sep 2004 adj full service to agr	418.00	-324.3	-135,557.40
Sep 2004 adj full service to agr (Vallecitos)	304.00	324.3	98,587.20
Sep 2004 adj full service to agr	418.00	-4,754.2	-1,987,255.60
Sep 2004 adj full service to agr (Valley Center)	304.00	4,754.2	1,445,276.80
Sep 2004 adj full service to agr	418.00	-62.5	-26,125.00
Sep 2004 adj full service to agr (Vista)	304.00	62.5	19,000.00
Sep 2004 adj full service to agr	418.00	-687.9	-287,542.20
Sep 2004 adj full service to agr (Yulma)	304.00	687.9	209,121.60
Adjustment Subtotal		0.0	-1,297,481.00
SD-07 Total		11,202.2	3,385,028.60

Meter No SD-08					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
n/o Red Mtn. n/o Mission Rd.	100	24000256	24159208	15895200	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	364.9	26,637.70
System Access Rate	163.00	364.9	59,478.70
Water Stewardship Rate	30.00	364.9	10,947.00
System Power Rate	60.00	364.9	21,894.00
Treatment Surcharge	92.00	364.9	33,570.80
Delivery Subtotal		364.9	152,528.20
SD-08 Total		364.9	152,528.20

Meter No SD-09					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
w/o Rainbow Glen. Rd. n/o Red Mtn.	100	5754883	5835184	8030100	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	184.3	13,453.90
System Access Rate	163.00	184.3	30,040.90
Water Stewardship Rate	30.00	184.3	5,529.00
System Power Rate	60.00	184.3	11,058.00
Treatment Surcharge	92.00	184.3	16,955.60
Delivery Subtotal		184.3	77,037.40
SD-09 Total		184.3	77,037.40

Agency Name
San Diego County Water Authority

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Meter No SD-11					
Untreated Domestic e/o Wilt Rd. n/o Dos Ninos Ave.	Constant 10,000	Previous Reading 9847716	Current Reading 9955025	Volume (Cu. Ft.) 1073090000	Rate Desc. Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	24,634.8	1,798,340.40
System Access Rate	163.00	24,634.8	4,015,472.40
Water Stewardship Rate	30.00	24,634.8	739,044.00
System Power Rate	60.00	24,634.8	1,478,088.00
Delivery Subtotal		24,634.8	8,030,944.80

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
JUN 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-2,869.0	-734,464.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-1,837.0	-470,272.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-5,461.4	-1,398,118.40
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	2,869.0	734,464.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	5,461.4	1,398,118.40
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	1,837.0	470,272.00
JUN 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	4.0	1,024.00
Jul 2004 adj full service to agr voided	326.00	29.7	9,682.20
Jul 2004 adj full service to agr voided (Ramona)	236.00	-29.7	-7,009.20
Jul 2004 adj full service to agr	326.00	-54.1	-17,636.60
Jul 2004 adj full service to agr (Ramona)	236.00	54.1	12,767.60
Jul 2004 adj full service to agr	326.00	-75.4	-24,580.40
Jul 2004 adj full service to agr (Poway)	236.00	75.4	17,794.40
Aug 2004 adj full service to agr	326.00	-86.6	-28,231.60
Aug 2004 adj full service to agr (Poway)	236.00	86.6	20,437.60
AUG 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-597.7	-153,011.20
AUG 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-6,602.7	-1,690,291.20
AUG 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-6,522.8	-1,669,836.80
AUG 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	597.7	153,011.20
AUG 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	6,598.7	1,689,267.20
AUG 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	6,671.8	1,707,980.80
Sep 2004 adj full service to agr	326.00	-508.3	-165,705.80
Sep 2004 adj full service to agr (Escondido)	236.00	508.3	119,858.80
Sep 2004 adj full service to agr	326.00	-136.2	-44,401.20
Sep 2004 adj full service to agr (Oceanside)	236.00	136.2	32,143.20
Sep 2004 adj full service to agr	326.00	-173.3	-56,495.80
Sep 2004 adj full service to agr (Olivenhain)	236.00	173.3	40,898.80
Sep 2004 adj full service to agr	326.00	-14.5	-4,727.00
Sep 2004 adj full service to agr (Ramona)	236.00	14.5	3,422.00
Sep 2004 adj full service to agr	326.00	-21.7	-7,074.20
Sep 2004 adj full service to agr (City of San Diego)	236.00	21.7	5,121.20
Sep 2004 adj full service to agr	326.00	-26.0	-8,476.00
Sep 2004 adj full service to agr (Santa Fe Irrigation)	236.00	26.0	6,136.00
Sep 2004 adj full service to agr	326.00	-30.7	-10,008.20
Sep 2004 adj full service to agr (Vista)	236.00	30.7	7,245.20
SEP 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-800.0	-153,600.00
SEP 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-9,793.7	-2,507,187.20
SEP 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-4,245.2	-1,086,771.20
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	600.0	153,600.00
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	759.5	194,176.00
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	4,096.2	1,048,627.20
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	8,833.2	2,261,299.20
Oct 2004 adj from full service to exchange	326.00	-1,666.6	-543,311.60
Oct 2004 adj from full service to exchange (San Diego CWA)	253.00		421,649.80
Oct 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-8,403.0	-2,739,378.00
Oct 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-1,345.0	-438,470.00
Adjustment Subtotal		-11,616.6	-3,449,960.80
SD-11 Total		13,018.2	4,580,984.00

Agency Name
San Diego County Water Authority

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Meter No SD-DS1

	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled
Desalted					

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2004 lppds contribution	170.00	0.4	-68.00
Adjustment Subtotal		0.4	-68.00
SD-DS1 Total		0.4	-68.00

Meter No SD-GRP1

	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Recovered		N/A	N/A	N/A	Unbundled
Recovered Greenbelt					

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
OCT 2004 GRP	437.00	122.4	53,488.80
OCT 2004 GRP	687.00		-84,088.80
Adjustment Subtotal		122.4	-30,600.00
SD-GRP1 Total		122.4	-30,600.00

Meter No SD-RCL1

	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled
Reclaimed					

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2004 lrp contribution	250.00	19.2	-4,800.00
Adjustment Subtotal		19.2	-4,800.00
SD-RCL1 Total		19.2	-4,800.00

Meter No SD-RCL10

	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled
No Address 1					

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 contribution	200.00	588.5	-117,700.00
Adjustment Subtotal		588.5	-117,700.00
SD-RCL10 Total		588.5	-117,700.00

Meter No SD-RCL13

	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled
Reclaimed					

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2004 contribution	250.00	79.7	-19,925.00
Adjustment Subtotal		79.7	-19,925.00
SD-RCL13 Total		79.7	-19,925.00

Agency Name
San Diego County Water Authority

Invoice No. 4820 Rev. 0 Bill Period October 2004 Page No. 6 of 7 Mailed On 11-10-04 Due On 12-30-04

Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2004 contribution	150.00	61.4	-9,210.00
Adjustment Subtotal		61.4	-9,210.00
SD-RCL15 Total		61.4	-9,210.00

Meter No SD-RCL5

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
SEP 2004 LPPRE	113.00	25.5	2,881.50
SEP 2004 LPPRE	267.00		-6,808.50
OCT 2004 LPPRE	113.00	14.5	1,838.50
OCT 2004 LPPRE	267.00		-3,871.50
Adjustment Subtotal		40.0	-6,160.00
SD-RCL5 Total		40.0	-6,160.00

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 lrp contribution	250.00	106.5	-26,625.00
Adjustment Subtotal		106.5	-26,625.00
SD-RCL6 Total		106.5	-26,625.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 lrp contribution	200.00	191.3	-38,260.00
Adjustment Subtotal		191.3	-38,260.00
SD-RCL8 Total		191.3	-38,260.00

Meter No SD-RCL9

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
SEP 2004 LPPRE	113.00	28.3	3,197.90
SEP 2004 LPPRE	267.00		-7,556.10
OCT 2004 LPPRE	113.00	15.7	1,774.10
OCT 2004 LPPRE	267.00		-4,191.90
Adjustment Subtotal		44.0	-6,776.00

Agency Name
San Diego County Water Authority

Invoice No. 4820 Rev. 0 Bill Period October 2004 Page No. 7 of 7 Mailed On 11-10-04 Due On 12-30-04

SD-RCL9 Total 44.0 -6,776.00

Meter No SDTJ-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
San Diego-Tijuana	133.88	102724	102724	0	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Delivery Subtotal		0.0	0.00
SDTJ-01A Total		0.0	0.00

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag.# 55708	-315,190.00
Capacity Charge for current year	3,952,800.00
Readiness to Serve Charge for current year	4,767,783.00
Readiness to Serve Charge adjustment for prior year 2003	372,321.00

VOLUME TOTAL	INVOICE TOTAL
46,617.6	\$23,979,201.00

This invoice was printed on 11/8/2004 at 7:23:25AM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

November 2004	Page No. 1 of 2
Mailed: 12/10/2004	Due Date: 01/31/2005
Invoice Number: 4848	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	12,989.4
Total Water Untreated Delivered	22,453.6

SALES	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	12,123.4	\$73.00	\$885,008.20
	System Access Rate	12,123.4	\$163.00	\$1,976,114.20
	Water Stewardship Rate	12,123.4	\$30.00	\$363,702.00
	System Power Rate	12,123.4	\$60.00	\$727,404.00
	Treatment Surcharge	7,599.8	\$92.00	\$699,181.60
Adjust Full Service Prior Rates				
Certification(s) for 200301 to 200312 for Domestic	Untreated	-9,290.6	\$326.00	(\$3,028,735.60)
IAWP	Treated	5,389.6		\$1,638,438.40
	Untreated	897.0		\$211,692.00
SUBTOTAL				\$3,472,804.80

MISCELLANEOUS SALES				
Emergency Storage Program - UnTreated	Untreated	11,792.6		\$3,844,387.60
Surface Storage Operating Agreement - Untreated, Scheduled		-28.0		(\$7,168.00)
SUBTOTAL				\$3,837,219.60

WATER MANAGEMENT	Volume (AF)	Total (\$)
Local Resource Programs	1,077.3	(\$223,787.00)
SUBTOTAL		(\$223,787.00)

EXCHANGES, WHEELING, AND OTHER DELIVERIES		
IID San Diego Exchange UnTreated	1,666.7	\$421,675.10
SUBTOTAL		\$421,675.10

OTHER CHARGES AND CREDITS	Rate (\$ /AF)	Total (\$)
Conservation Credit		(\$127,380.00)
Tier 2 Surcharge for 2003	\$81.00	(\$752,538.60)
Tier 2 Surcharge for 2004	\$81.00	\$232,947.90
SUBTOTAL		(\$646,970.70)



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

November 2004	Page No. 2 of 2
Mailed: 12/10/2004	Due Date: 01/31/2005
Invoice Number: 4848	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

ADDITIONAL INFORMATION

	Volume (AF)	Tier1 %	Peak Day	Flow(CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,342,570.6			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	1,022,182.0			
Tier 1 Annual Limit (For Current Year)	501,385.8			
Tier 1 YTD Deliveries (For Current Year)	501,385.6	100.0		
Tier 1 Current Month Deliveries	12,095.4			
Tier 2 YTD Deliveries	2,875.9			
Requested Capacity				1,296.0
Annual Peak Flow			5/4/2004	1,373.5
Summer Peak Flow			5/4/2004	1,373.5

INVOICE TOTAL

Volume AF
21,961.3

Amount Now Due
\$6,860,941.80

Call us at 800-451-7000 or visit us at www.mwd.net



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name	Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
San Diego County Water Authority	4848	0	November 2004	1 of 7	12-10-04	01-31-05

Meter No SD-01A						
Treated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	Constant 1,000	Previous Reading 16256804	Current Reading 16331444	Volume (Cu. Ft.) 74640000	Rate Desc. Unbundled	
--- DELIVERIES ---						
			Rate Per AF	Volume AF		Amount
Tier 1 Supply Rate			73.00	1,713.5		125,085.50
System Access Rate			163.00	1,713.5		279,300.50
Water Stewardship Rate			30.00	1,713.5		51,405.00
System Power Rate			60.00	1,713.5		102,810.00
Treatment Surcharge			92.00	1,713.5		157,642.00
			Delivery Subtotal	1,713.5		716,243.00
				SD-01A Total	1,713.5	716,243.00

Meter No SD-01B						
Treated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	Constant 1,000	Previous Reading 15846663	Current Reading 15917097	Volume (Cu. Ft.) 70434000	Rate Desc. Unbundled	
--- DELIVERIES ---						
			Rate Per AF	Volume AF		Amount
Tier 1 Supply Rate			73.00	1,616.9		118,033.70
System Access Rate			163.00	1,616.9		263,554.70
Water Stewardship Rate			30.00	1,616.9		48,507.00
System Power Rate			60.00	1,616.9		97,014.00
Treatment Surcharge			92.00	1,616.9		148,754.80
			Delivery Subtotal	1,616.9		675,864.20
				SD-01B Total	1,616.9	675,864.20

Meter No SD-02						
Treated Domestic w/o Rainbow Glen Rd.	Constant 100	Previous Reading 14461697	Current Reading 14509359	Volume (Cu. Ft.) 4766200	Rate Desc. Unbundled	
--- DELIVERIES ---						
			Rate Per AF	Volume AF		Amount
Tier 1 Supply Rate			73.00	109.4		7,986.20
System Access Rate			163.00	109.4		17,832.20
Water Stewardship Rate			30.00	109.4		3,282.00
System Power Rate			60.00	109.4		6,564.00
Treatment Surcharge			92.00	109.4		10,064.80
Nov 2004, meter under 10% flow Tier 1 supply rate			73.00	0.8		58.40
Nov 2004, meter under 10% flow System access rate			163.00	0.8		130.40
Nov 2004, meter under 10% flow Water stewardship rate			30.00	0.8		24.00
Nov 2004, meter under 10% flow System power rate			60.00	0.8		48.00

Agency Name
San Diego County Water Authority

Invoice No. 4848 Rev. 0 Bill Period November 2004 Page No. 2 of 7 Mailed On 12-10-04 Due On 01-31-05

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Nov 2004, meter under 10% flow Treatment surcharge	92.00	0.8	73.60
Delivery Subtotal		110.2	46,063.60
SD-02 Total		110.2	46,063.60

Meter No SD-03					
Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	47261240	47697920	436680000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	10,024.8	731,810.40
System Access Rate	163.00	10,024.8	1,634,042.40
Water Stewardship Rate	30.00	10,024.8	300,744.00
System Power Rate	60.00	10,024.8	601,488.00
Delivery Subtotal		10,024.8	3,268,084.80

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2003 adj full service to esp	326.00	-3,410.0	-1,111,660.00
Dec 2003 adj full service to esp (Olivenhain)	326.00	3,410.0	1,111,660.00
Nov 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-1,979.3	-645,251.80
Adjustment Subtotal		-1,979.3	-645,251.80
SD-03 Total		8,045.5	2,622,833.00

Meter No SD-05					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
s/o Reche Rd. w/o Wilt Rd.	100	3642587	3647891	530400	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	12.2	890.60
System Access Rate	163.00	12.2	1,988.60
Water Stewardship Rate	30.00	12.2	366.00
System Power Rate	60.00	12.2	732.00
Treatment Surcharge	92.00	12.2	1,122.40
Delivery Subtotal		12.2	5,099.60
SD-05 Total		12.2	5,099.60

Meter No SD-07					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	84897088	85296384	399296000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	9,166.6	669,161.80
System Access Rate	163.00	9,166.6	1,494,155.80
Water Stewardship Rate	30.00	9,166.6	274,998.00
System Power Rate	60.00	9,166.6	549,996.00
Treatment Surcharge	92.00	9,166.6	843,327.20
Delivery Subtotal		9,166.6	3,831,638.80

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 adj full service to agr	418.00	-10.6	-4,430.80
Sep 2004 adj full service to agr (Padre Dam)	304.00	10.6	3,222.40
Sep 2004 adj full service to agr	418.00	-89.3	-37,327.40

Agency Name
San Diego County Water Authority

Invoice No. 4848 Rev. 0 Bill Period November 2004 Page No. 3 of 7 Mailed On 12-10-04 Due On 01-31-05

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Sep 2004 adj full service to agr (Rincon)	304.00	89.3	27,147.20
Oct 2004 adj full service to agr	418.00	-1,446.1	-604,469.80
Oct 2004 adj full service to agr (Rainbow)	304.00	1,446.1	439,614.40
Oct 2004 adj full service to agr	418.00	-69.3	-28,967.40
Oct 2004 adj full service to agr (Carlsbad Municipal)	304.00	69.3	21,067.20
Oct 2004 adj full service to agr	418.00	-540.3	-225,845.40
Oct 2004 adj full service to agr (Fallbrook)	304.00	540.3	164,251.20
Oct 2004 adj full service to agr	418.00	-37.2	-15,549.60
Oct 2004 adj full service to agr (Oceanside)	304.00	37.2	11,308.80
Oct 2004 adj full service to agr	418.00	-11.9	-4,974.20
Oct 2004 adj full service to agr (Otay)	304.00	11.9	3,617.60
Oct 2004 adj full service to agr	418.00	-396.4	-165,695.20
Oct 2004 adj full service to agr (Padre Dam)	304.00	396.4	120,505.60
Oct 2004 adj full service to agr	418.00	-53.0	-22,154.00
Oct 2004 adj full service to agr (Rincon)	304.00	53.0	16,112.00
Oct 2004 adj full service to agr	418.00	-1.4	-585.20
Oct 2004 adj full service to agr (City of San Diego)	304.00	1.4	425.60
Oct 2004 adj full service to agr	418.00	-0.2	-83.60
Oct 2004 adj full service to agr (Santa Fe Irrigation)	304.00	0.2	60.80
Oct 2004 adj full service to agr	418.00	-232.0	-96,976.00
Oct 2004 adj full service to agr (Vallecitos)	304.00	232.0	70,528.00
Oct 2004 adj full service to agr	418.00	-2,204.9	-921,648.20
Oct 2004 adj full service to agr (Valley Center)	304.00	2,204.9	670,289.60
Oct 2004 adj full service to agr	418.00	-6.9	-2,884.20
Oct 2004 adj full service to agr (Yuima)	304.00	6.9	2,097.60
Oct 2004 adj full service to agr	418.00	-38.0	-15,884.00
Oct 2004 adj full service to agr (Vista)	304.00	38.0	11,552.00
Oct 2004 adj full service to agr	418.00	-252.1	-105,377.80
Oct 2004 adj full service to agr (Ramona)	304.00	252.1	76,638.40
Adjustment Subtotal		0.0	-614,414.40
SD-07 Total		9,166.6	3,217,224.40

Meter No SD-08

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
n/o Red Mtn. n/o Mission Rd.	100	24159208	24297608	13840000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	317.7	23,192.10
System Access Rate	163.00	317.7	51,785.10
Water Stewardship Rate	30.00	317.7	9,531.00
System Power Rate	60.00	317.7	19,062.00
Treatment Surcharge	92.00	317.7	29,228.40
Delivery Subtotal		317.7	132,798.60
SD-08 Total		317.7	132,798.60

Meter No SD-09

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
w/o Rainbow Glen. Rd. n/o Red Mtn.	100	5835184	5857968	2278400	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	52.3	3,817.90
System Access Rate	163.00	52.3	8,524.90
Water Stewardship Rate	30.00	52.3	1,569.00
System Power Rate	60.00	52.3	3,138.00
Treatment Surcharge	92.00	52.3	4,811.60
Delivery Subtotal		52.3	21,861.40

Agency Name
San Diego County Water Authority

Invoice No. 4848 Rev. 0 Bill Period November 2004 Page No. 4 of 7 Mailed On 12-10-04 Due On 01-31-05

SD-09 Total 52.3 21,861.40

Meter No SD-11

Untreated Domestic e/o Wilt Rd. n/o Dos Ninos Ave.	Constant 10,000	Previous Reading 9955025	Current Reading 10009165	Volume (Cu. Ft.) 541400000	Rate Desc. Unbundled
-------------------------------------------------------	--------------------	-----------------------------	-----------------------------	-------------------------------	-------------------------

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	12,428.8	907,302.40
System Access Rate	163.00	12,428.8	2,025,894.40
Water Stewardship Rate	30.00	12,428.8	372,864.00
System Power Rate	60.00	12,428.8	745,728.00
Delivery Subtotal		12,428.8	4,051,788.80

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2003 adj full service to esp	326.00	-348.9	-113,741.40
Aug 2003 adj full service to esp (Olivenhain)	326.00	348.9	113,741.40
Sep 2003 adj full service to esp	326.00	-1,935.7	-631,038.20
Sep 2003 adj full service to esp (Olivenhain)	326.00	1,935.7	631,038.20
Oct 2003 adj full service to esp	326.00	-2,278.0	-742,628.00
Oct 2003 adj full service to esp (Olivenhain)	326.00	2,278.0	742,628.00
Nov 2003 adj full service to esp	326.00	-1,318.0	-429,668.00
Nov 2003 adj full service to esp (Olivenhain)	326.00	1,318.0	429,668.00
Jan 2004 adj full service to esp	326.00	-1,846.0	-536,596.00
Jan 2004 adj full service to esp (Olivenhain)	326.00	1,846.0	536,596.00
Feb 2004 adj full service to esp	326.00	-856.0	-278,056.00
Feb 2004 adj full service to esp (Olivenhain)	326.00	856.0	278,056.00
Sep 2004 adj full service to agr	326.00	-63.9	-20,831.40
Sep 2004 adj full service to agr (Poway)	236.00	63.9	15,080.40
SEP 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-600.0	-153,600.00
SEP 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-758.5	-194,176.00
SEP 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-4,096.2	-1,048,627.20
SEP 2004 ADJ Surface Storage TO Scheduled SOLD VOIDED (San Diego CWA)	256.00	-8,833.2	-2,261,299.20
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	600.0	153,600.00
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	4,096.2	1,048,627.20
SEP 2004 ADJ Surface Storage TO Scheduled SOLD (San Diego CWA)	256.00	9,583.7	2,448,307.20
Oct 2004 adj full service to agr	326.00	-545.5	-177,833.00
Oct 2004 adj full service to agr (Escondido)	236.00	545.5	128,738.00
Oct 2004 adj full service to agr	326.00	-84.5	-27,547.00
Oct 2004 adj full service to agr (Oceanside)	236.00	84.5	19,942.00
Oct 2004 adj full service to agr	326.00	-143.0	-46,618.00
Oct 2004 adj full service to agr (Olivenhain)	236.00	143.0	33,748.00
Oct 2004 adj full service to agr	326.00	-19.5	-6,357.00
Oct 2004 adj full service to agr (City of San Diego)	236.00	19.5	4,802.00
Oct 2004 adj full service to agr	326.00	-8.6	-2,803.60
Oct 2004 adj full service to agr (Santa Fe Irrigation)	236.00	8.6	2,029.60
Oct 2004 adj full service to agr	326.00	-32.0	-10,432.00
Oct 2004 adj full service to agr (Vista)	236.00	32.0	7,552.00
Oct 2004 adj full service to surface storage - Direct - (San Diego CWA) VOIDED	326.00	8,403.0	2,739,378.00
Oct 2004 adj full service to surface storage - In-Lieu - (San Diego CWA) VOIDED	326.00	1,345.0	438,470.00
Oct 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-8,870.9	-2,891,913.40
Oct 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-1,000.0	-326,000.00
Nov 2004 adj from full service to exchange	326.00	-1,666.7	-543,344.20
Nov 2004 adj from full service to exchange (San Diego CWA)	253.00		421,675.10
Nov 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-9,154.1	-2,984,236.60
Nov 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-1,608.0	-524,208.00
Adjustment Subtotal		-12,579.7	-3,758,077.10
SD-11 Total		-150.9	293,711.70

Agency Name
San Diego County Water Authority

Invoice No. 4848 Rev. 0 Bill Period November 2004 Page No. 5 of 7 Mailed On 12-10-04 Due On 01-31-05

Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 lppds contribution	170.00	227.1	-38,607.00
Adjustment Subtotal		227.1	-38,607.00
SD-DS1 Total		227.1	-38,607.00

Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
NOV 2004 GRP	437.00	197.1	86,132.70
NOV 2004 GRP	687.00		-135,407.70
Adjustment Subtotal		197.1	-49,275.00
SD-GRP1 Total		197.1	-49,275.00

Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 lrp contribution	250.00	10.4	-2,600.00
Adjustment Subtotal		10.4	-2,600.00
SD-RCL1 Total		10.4	-2,600.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
No Address 1		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2004 contribution	200.00	326.7	-65,340.00
Adjustment Subtotal		326.7	-65,340.00
SD-RCL10 Total		326.7	-65,340.00

Meter No SD-RCL11

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2004 contribution	250.00	2.9	-725.00
Nov 2004 contribution	250.00	23.6	-5,900.00
Adjustment Subtotal		26.5	-6,625.00
SD-RCL11 Total		26.5	-6,625.00

Agency Name
San Diego County Water Authority

Invoice No. 4848 Rev. 0 Bill Period November 2004 Page No. 6 of 7 Mailed On 12-10-04 Due On 01-31-05

Meter No SD-RCL12

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2004 lrp contribution	250.00	84.8	-21,200.00
Adjustment Subtotal		84.8	-21,200.00
SD-RCL12 Total		84.8	-21,200.00

Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 contribution	150.00	27.1	-4,065.00
Adjustment Subtotal		27.1	-4,065.00
SD-RCL15 Total		27.1	-4,065.00

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jun 2004 lrp contribution voided	250.00	-192.6	48,150.00
Jun 2004 lrp contribution	250.00	108.4	-27,100.00
Oct 2004 lrp contribution	250.00	95.3	-23,825.00
Adjustment Subtotal		11.1	-2,775.00
SD-RCL6 Total		11.1	-2,775.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2004 lrp contribution	200.00	166.5	-33,300.00
Adjustment Subtotal		166.5	-33,300.00
SD-RCL8 Total		166.5	-33,300.00

Meter No SDTJ-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
San Diego-Tijuana	133.68	102724	102724	0	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Delivery Subtotal		0.0	0.00
SDTJ-01A Total		0.0	0.00

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag.# 55708	-127,380.00

Agency Name
San Diego County Water Authority

Invoice No.	Rev.	Bill Period	Page No.	Mailed On	Due On
4848	0	November 2004	7 of 7	12-10-04	01-31-05

--- OTHER CHARGES AND CREDITS ---

Tier 2 Surcharge for current year
Tier 2 Surcharge adjustment for prior year 2003

Amount

232,947.90
-752,538.60

VOLUME TOTAL

INVOICE TOTAL

21,961.3

\$6,860,941.80

This invoice was printed on 12/8/2004 at 8:06:51AM



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

December 2004	Page No. 1 of 2
Mailed: 01/10/2005	Due Date: 02/28/2005
Invoice Number: 4876	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES	Volume (AF)
Total Water Treated Delivered	12,922.7
Total Water Untreated Delivered	34,766.4

SALES	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	38,379.2	\$73.00	\$2,801,681.60
	System Access Rate	38,379.2	\$163.00	\$6,255,809.60
	Water Stewardship Rate	38,379.2	\$30.00	\$1,151,376.00
	System Power Rate	38,379.2	\$60.00	\$2,302,752.00
	Treatment Surcharge	10,888.2	\$92.00	\$1,001,714.40
Adjust Full Service Prior Rates				
Certification(s) for 200301 to 200312 for Domestic	Treated	1,168.4	\$408.00	\$476,707.20
Certification(s) for 199701 to 200212 for Domestic	Treated	-407.1	\$431.00	(\$175,460.10)
Certification(s) for 200301 to 200312 for Domestic	Untreated	-53.2	\$326.00	(\$17,343.20)
Certification(s) for 199701 to 200212 for Domestic	Untreated	124.7	\$349.00	\$43,520.30
IAWP	Treated	1,273.2		\$394,665.80
	Untreated	287.9		\$63,224.40
SUBTOTAL				\$14,298,648.00

WATER MANAGEMENT	Volume (AF)	Total (\$)
Local Resource Programs	662.0	(\$136,396.40)
SUBTOTAL		(\$136,396.40)

EXCHANGES, WHEELING, AND OTHER DELIVERIES	Volume (AF)	Total (\$)
IID San Diego Exchange UnTreated	1,666.7	\$421,675.10
		\$421,675.10

OTHER CHARGES AND CREDITS	Volume (AF)	Rate (\$ /AF)	Total (\$)
Conservation Credit			(\$161,480.00)
Tier 2 Surcharge for 2003	1,115.2	\$81.00	\$90,331.20
Tier 2 Surcharge for 2004	38,379.2	\$81.00	\$3,108,715.20
SUBTOTAL			\$3,037,566.40



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

San Diego County Water Authority



Service Address

4677 Overland Avenue
 San Diego, Ca. 92123-1233

December 2004	Page No. 2 of 2
Mailed: 01/10/2005	Due Date: 02/28/2005
Invoice Number: 4876	Revision: 0

NOTICE

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ADDITIONAL INFORMATION	Volume (AF)	Tier1 %	Peak Day	Flow(CFS)
Purchase Order Commitment (Jan 2003 to Dec 2012)	3,342,570.6			
Purchase Order Firm Delivery To Date (Jan 2003 to Dec 2012)	1,061,676.4			
Tier 1 Annual Limit (For Current Year)	501,385.6			
Tier 1 YTD Deliveries (For Current Year)	501,385.6	100.0		
Tier 1 Current Month Deliveries	38,379.2			
Tier 2 YTD Deliveries	41,255.1			
Requested Capacity				1,296.0
Annual Peak Flow			5/4/2004	1,373.5
Summer Peak Flow			5/4/2004	1,373.5

INVOICE TOTAL

Volume AF
41,415.1

Amount Now Due
\$17,621,493.10



MWD
 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE DETAIL

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

IN ACCORDANCE WITH READINGS AND BILLING DATA LISTED BELOW

Agency Name San Diego County Water Authority	Invoice No. 4876	Rev. 0	Bill Period December 2004	Page No. 1 of 11	Mailed On 01-10-05	Due On 02-28-05
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Meter No SD-01A

Treated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	Constant 1,000	Previous Reading 16331444	Current Reading 16416091	Volume (Cu. Ft.) 84647000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	1,943.2	141,853.60
System Access Rate	163.00	1,943.2	316,741.60
Water Stewardship Rate	30.00	1,943.2	58,296.00
System Power Rate	60.00	1,943.2	116,592.00
Treatment Surcharge	92.00	1,943.2	178,774.40
Delivery Subtotal		1,943.2	812,257.60
SD-01A Total		1,943.2	812,257.60

Meter No SD-01B

Treated Domestic Rainbow Cyn. Rd. e/o Frontage Rd.	Constant 1,000	Previous Reading 15917097	Current Reading 16001952	Volume (Cu. Ft.) 84855000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	1,948.0	142,204.00
System Access Rate	163.00	1,948.0	317,524.00
Water Stewardship Rate	30.00	1,948.0	58,440.00
System Power Rate	60.00	1,948.0	116,880.00
Treatment Surcharge	92.00	1,948.0	179,216.00
Delivery Subtotal		1,948.0	814,264.00
SD-01B Total		1,948.0	814,264.00

Meter No SD-02

Treated Domestic w/o Rainbow Glen Rd.	Constant 100	Previous Reading 14509359	Current Reading 14586656	Volume (Cu. Ft.) 7729700	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	177.4	12,950.20
System Access Rate	163.00	177.4	28,916.20
Water Stewardship Rate	30.00	177.4	5,322.00
System Power Rate	60.00	177.4	10,644.00
Treatment Surcharge	92.00	177.4	16,320.80
Dec 2004, meter under 10% flow Tier 1 supply rate	73.00	0.4	29.20
Dec 2004, meter under 10% flow System access rate	163.00	0.4	65.20
Dec 2004, meter under 10% flow Water stewardship rate	30.00	0.4	12.00
Dec 2004, meter under 10% flow System power rate	60.00	0.4	24.00

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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Dec 2004, meter under 10% flow Treatment surcharge	92.00	0.4	36.80
Delivery Subtotal		177.8	74,320.40
SD-02 Total		177.8	74,320.40

Meter No SD-03					
Untreated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Rainbow Cyn. Rd. e/o Frontage Rd.	1,000	47697920	48297168	599248000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	13,756.8	1,004,246.40
System Access Rate	163.00	13,756.8	2,242,358.40
Water Stewardship Rate	30.00	13,756.8	412,704.00
System Power Rate	60.00	13,756.8	825,408.00
Delivery Subtotal		13,756.8	4,484,716.80

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 adj full service to agr	326.00	-144.9	-47,237.40
Nov 2004 adj full service to agr (Escondido)	236.00	144.9	34,196.40
Nov 2004 adj full service to agr	326.00	-29.4	-9,584.40
Nov 2004 adj full service to agr (Oceanside)	236.00	29.4	6,938.40
Nov 2004 adj full service to agr	326.00	-80.7	-26,308.20
Nov 2004 adj full service to agr (Olivenhain)	236.00	80.7	19,045.20
Nov 2004 adj full service to agr	326.00	-43.3	-14,115.80
Nov 2004 adj full service to agr (Ramona)	236.00	43.3	10,218.80
Nov 2004 adj full service to agr	326.00	-9.9	-3,227.40
Nov 2004 adj full service to agr (City of San Diego)	236.00	9.9	2,336.40
Nov 2004 adj full service to agr	326.00	-4.9	-1,597.40
Nov 2004 adj full service to agr (Santa Fe Irrigation)	236.00	4.9	1,156.40
Nov 2004 adj full service to agr	326.00	-2.7	-880.20
Nov 2004 adj full service to agr (Vista)	236.00	2.7	637.20
Adjustment Subtotal		0.0	-28,422.00
SD-03 Total		13,756.8	4,456,294.80

Meter No SD-05					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
s/o Reche Rd. w/o Wilt Rd.	100	3647891	3680451	3258000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	74.7	5,453.10
System Access Rate	163.00	74.7	12,176.10
Water Stewardship Rate	30.00	74.7	2,241.00
System Power Rate	60.00	74.7	4,482.00
Treatment Surcharge	92.00	74.7	6,872.40
Delivery Subtotal		74.7	31,224.60
SD-05 Total		74.7	31,224.60

Meter No SD-07					
Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
e/o Wilt Rd. n/o Dos Ninos Ave.	1,000	85296384	85661120	384736000	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	8,373.2	611,243.60

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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
System Access Rate	163.00	8,373.2	1,364,831.60
Water Stewardship Rate	30.00	8,373.2	251,196.00
System Power Rate	60.00	8,373.2	502,392.00
Treatment Surcharge	92.00	8,373.2	770,334.40
Delivery Subtotal		8,373.2	3,499,997.60

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2002 adj full service to agr voided	431.00	11.4	4,913.40
Jul 2002 adj full service to agr voided (Padre Dam)	294.00	-11.4	-3,351.60
Jul 2002 adj full service to agr voided	431.00	12.1	5,215.10
Jul 2002 adj full service to agr voided (City of San Diego)	294.00	-12.1	-3,557.40
Jul 2002 adj full service to agr voided	431.00	280.9	121,067.90
Jul 2002 adj full service to agr voided (Ramona)	294.00	-280.9	-82,584.60
Jul 2002 adj full service to agr voided	431.00	2,764.7	1,191,585.70
Jul 2002 adj full service to agr voided (Rainbow)	294.00	-2,764.7	-812,821.80
Jul 2002 adj full service to agr voided	431.00	-21.8	-9,395.80
Jul 2002 adj full service to agr (Padre Dam)	294.00	21.8	6,409.20
Jul 2002 adj full service to agr voided	431.00	-403.1	-173,736.10
Jul 2002 adj full service to agr (Ramona)	294.00	403.1	118,511.40
Jul 2002 adj full service to agr voided	431.00	-2,736.2	-1,179,302.20
Jul 2002 adj full service to agr (Rainbow)	294.00	2,736.2	804,442.80
Jul 2002 adj full service to agr voided	431.00	-3.6	-1,551.60
Jul 2002 adj full service to agr (City of San Diego)	294.00	3.6	1,058.40
Aug 2002 adj full service to agr voided	431.00	2.2	948.20
Aug 2002 adj full service to agr voided (City of San Diego)	294.00	-2.2	-646.80
Aug 2002 adj full service to agr voided	431.00	283.1	122,016.10
Aug 2002 adj full service to agr voided (Ramona)	294.00	-283.1	-83,231.40
Aug 2002 adj full service to agr voided	431.00	2,696.4	1,162,148.40
Aug 2002 adj full service to agr voided (Rainbow)	294.00	-2,696.4	-792,741.80
Aug 2002 adj full service to agr voided	431.00	-372.8	-160,676.80
Aug 2002 adj full service to agr (Ramona)	294.00	372.8	109,603.20
Aug 2002 adj full service to agr voided	431.00	-2,641.7	-1,138,572.70
Aug 2002 adj full service to agr (Rainbow)	294.00	2,641.7	776,659.80
Aug 2002 adj full service to agr voided	431.00	-3.0	-1,293.00
Aug 2002 adj full service to agr (City of San Diego)	294.00	3.0	882.00
Sep 2002 adj full service to agr voided	431.00	3.3	1,422.30
Sep 2002 adj full service to agr voided (Padre Dam)	294.00	-3.3	-970.20
Sep 2002 adj full service to agr voided	431.00	2.9	1,249.90
Sep 2002 adj full service to agr voided (City of San Diego)	294.00	-2.9	-852.60
Sep 2002 adj full service to agr voided	431.00	118.2	50,944.20
Sep 2002 adj full service to agr voided (Rincon)	294.00	-118.2	-34,750.80
Sep 2002 adj full service to agr voided	431.00	287.6	123,955.60
Sep 2002 adj full service to agr voided (Ramona)	294.00	-287.6	-84,554.40
Sep 2002 adj full service to agr voided	431.00	2,243.2	966,819.20
Sep 2002 adj full service to agr voided (Rainbow)	294.00	-2,243.2	-659,500.80
Sep 2002 adj full service to agr voided	431.00	-117.3	-50,556.30
Sep 2002 adj full service to agr (Rincon)	294.00	117.3	34,486.20
Sep 2002 adj full service to agr voided	431.00	-378.0	-162,918.00
Sep 2002 adj full service to agr (Ramona)	294.00	378.0	111,132.00
Sep 2002 adj full service to agr voided	431.00	-2,403.0	-1,035,693.00
Sep 2002 adj full service to agr (Rainbow)	294.00	2,403.0	706,482.00
Sep 2002 adj full service to agr voided	431.00	-3.5	-1,508.50
Sep 2002 adj full service to agr (City of San Diego)	294.00	3.5	1,029.00
Sep 2002 adj full service to agr voided	431.00	-15.4	-6,637.40
Sep 2002 adj full service to agr (Padre Dam)	294.00	15.4	4,527.60
Oct 2002 adj full service to agr voided	431.00	5.0	2,155.00
Oct 2002 adj full service to agr voided (City of San Diego)	294.00	-5.0	-1,470.00
Oct 2002 adj full service to agr voided	431.00	93.0	40,083.00
Oct 2002 adj full service to agr voided (Rincon)	294.00	-93.0	-27,342.00
Oct 2002 adj full service to agr voided	431.00	198.5	85,553.50
Oct 2002 adj full service to agr voided (Ramona)	294.00	-198.5	-58,359.00
Oct 2002 adj full service to agr voided	431.00	-82.3	-39,781.30

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--- ADJUSTMENT ---

		Rate Per AF	Volume AF	Amount
Oct 2002 adj full service to agr	(Rincon)	294.00	92.3	27,136.20
Oct 2002 adj full service to agr		431.00	-209.9	-90,466.90
Oct 2002 adj full service to agr	(Ramona)	294.00	209.9	61,710.60
Oct 2002 adj full service to agr		431.00	-5.3	-2,284.30
Oct 2002 adj full service to agr	(City of San Diego)	294.00	5.3	1,558.20
Nov 2002 adj full service to agr	voided	431.00	2.9	1,249.90
Nov 2002 adj full service to agr	voided (City of San Diego)	294.00	-2.9	-852.60
Nov 2002 adj full service to agr	voided	431.00	110.5	47,625.50
Nov 2002 adj full service to agr	voided (Ramona)	294.00	-110.5	-32,487.00
Nov 2002 adj full service to agr		431.00	-111.5	-48,056.50
Nov 2002 adj full service to agr	(Ramona)	294.00	111.5	32,781.00
Nov 2002 adj full service to agr		431.00	-3.8	-1,637.80
Nov 2002 adj full service to agr	(City of San Diego)	294.00	3.8	1,117.20
Dec 2002 adj full service to agr	voided	431.00	2.9	1,249.90
Dec 2002 adj full service to agr	voided (City of San Diego)	294.00	-2.9	-852.60
Dec 2002 adj full service to agr	voided	431.00	64.4	27,756.40
Dec 2002 adj full service to agr	voided (Ramona)	294.00	-64.4	-18,933.60
Dec 2002 adj full service to agr		431.00	-64.9	-27,971.90
Dec 2002 adj full service to agr	(Ramona)	294.00	64.9	19,080.60
Dec 2002 adj full service to agr		431.00	-3.2	-1,379.20
Dec 2002 adj full service to agr	(City of San Diego)	294.00	3.2	940.80
Jan 2003 adj full service to agr	voided	408.00	0.9	367.20
Jan 2003 adj full service to agr	voided (City of San Diego)	294.00	-0.9	-284.60
Jan 2003 adj full service to agr	voided	408.00	130.1	53,080.80
Jan 2003 adj full service to agr	voided (Ramona)	294.00	-130.1	-38,249.40
Jan 2003 adj full service to agr		408.00	-130.4	-53,203.20
Jan 2003 adj full service to agr	(Ramona)	294.00	130.4	38,337.60
Jan 2003 adj full service to agr		408.00	-1.0	-408.00
Jan 2003 adj full service to agr	(City of San Diego)	294.00	1.0	294.00
Feb 2003 adj full service to agr	voided	408.00	1.8	734.40
Feb 2003 adj full service to agr	voided (City of San Diego)	294.00	-1.8	-529.20
Feb 2003 adj full service to agr	voided	408.00	55.5	22,644.00
Feb 2003 adj full service to agr	voided (Ramona)	294.00	-55.5	-16,317.00
Feb 2003 adj full service to agr		408.00	-56.1	-22,888.80
Feb 2003 adj full service to agr	(Ramona)	294.00	56.1	16,493.40
Feb 2003 adj full service to agr		408.00	-1.9	-775.20
Feb 2003 adj full service to agr	(City of San Diego)	294.00	1.9	558.60
Mar 2003 adj full service to agr	voided	408.00	68.4	27,907.20
Mar 2003 adj full service to agr	voided (Fallbrook)	294.00	-68.4	-20,109.60
Mar 2003 adj full service to agr	voided	408.00	0.8	326.40
Mar 2003 adj full service to agr	voided (City of San Diego)	294.00	-0.8	-235.20
Mar 2003 adj full service to agr	voided	408.00	91.6	37,372.80
Mar 2003 adj full service to agr	voided (Ramona)	294.00	-91.6	-26,930.40
Mar 2003 adj full service to agr		408.00	-157.5	-64,280.00
Mar 2003 adj full service to agr	(Fallbrook)	294.00	157.5	46,305.00
Mar 2003 adj full service to agr		408.00	-92.7	-37,821.60
Mar 2003 adj full service to agr	(Ramona)	294.00	92.7	27,253.80
Mar 2003 adj full service to agr		408.00	-0.9	-367.20
Mar 2003 adj full service to agr	(City of San Diego)	294.00	0.9	264.60
Apr 2003 adj full service to agr	voided	408.00	391.2	159,609.60
Apr 2003 adj full service to agr	voided (Fallbrook)	294.00	-391.2	-115,012.80
Apr 2003 adj full service to agr	voided	408.00	2.4	979.20
Apr 2003 adj full service to agr	voided (City of San Diego)	294.00	-2.4	-705.60
Apr 2003 adj full service to agr	voided	408.00	284.9	116,239.20
Apr 2003 adj full service to agr	voided (Ramona)	294.00	-284.9	-83,760.60
Apr 2003 adj full service to agr		408.00	-386.8	-157,814.40
Apr 2003 adj full service to agr	(Fallbrook)	294.00	386.8	113,719.20
Apr 2003 adj full service to agr		408.00	-291.6	-118,972.80
Apr 2003 adj full service to agr	(Ramona)	294.00	291.6	85,730.40
Apr 2003 adj full service to agr		408.00	-2.5	-1,020.00
Apr 2003 adj full service to agr	(City of San Diego)	294.00	2.5	735.00
Apr 2003 adj full service to agr	voided	408.00	1,217.5	496,740.00
Apr 2003 adj full service to agr	voided (Rainbow)	294.00	-1,217.5	-357,845.00

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--- ADJUSTMENT ---

		Rate Per AF	Volume AF	Amount
May 2003 adj full service to agr	voided	408.00	4.0	1,632.00
May 2003 adj full service to agr	voided (City of San Diego)	294.00	-4.0	-1,176.00
May 2003 adj full service to agr	voided	408.00	63.3	25,826.40
May 2003 adj full service to agr	voided (Rincon)	294.00	-63.3	-18,610.20
May 2003 adj full service to agr	voided	408.00	65.3	26,642.40
May 2003 adj full service to agr	voided (Carlsbad Municipal)	294.00	-65.3	-19,198.20
May 2003 adj full service to agr	voided	408.00	291.1	118,768.80
May 2003 adj full service to agr	voided (Ramona)	294.00	-291.1	-85,583.40
May 2003 adj full service to agr	voided	408.00	1,475.8	602,126.40
May 2003 adj full service to agr	voided (Rainbow)	294.00	-1,475.8	-433,885.20
May 2003 adj full service to agr	voided	408.00	-36.4	-14,851.20
May 2003 adj full service to agr	(Vista)	294.00	36.4	10,701.60
May 2003 adj full service to agr	voided	408.00	-79.3	-32,354.40
May 2003 adj full service to agr	(Rincon)	294.00	79.3	23,314.20
May 2003 adj full service to agr	voided	408.00	-83.8	-34,190.40
May 2003 adj full service to agr	(Carlsbad Municipal)	294.00	83.8	24,637.20
May 2003 adj full service to agr	voided	408.00	-187.6	-76,540.80
May 2003 adj full service to agr	(Ramona)	294.00	187.6	55,154.40
May 2003 adj full service to agr	voided	408.00	-1,605.6	-655,084.80
May 2003 adj full service to agr	(Rainbow)	294.00	1,605.6	472,046.40
May 2003 adj full service to agr	voided	408.00	-5.1	-2,080.80
May 2003 adj full service to agr	(City of San Diego)	294.00	5.1	1,499.40
May 2003 adj full service to agr	voided	408.00	43.2	17,625.60
May 2003 adj full service to agr	voided (Vista)	294.00	-43.2	-12,700.80
Jun 2003 adj full service to agr	voided	408.00	2.6	1,060.80
Jun 2003 adj full service to agr	voided (City of San Diego)	294.00	-2.6	-764.40
Jun 2003 adj full service to agr	voided	408.00	336.6	137,332.80
Jun 2003 adj full service to agr	voided (Ramona)	294.00	-336.6	-98,980.40
Jun 2003 adj full service to agr	voided	408.00	1,915.8	781,646.40
Jun 2003 adj full service to agr	voided (Rainbow)	294.00	-1,915.8	-563,245.20
Jun 2003 adj full service to agr	voided	408.00	-293.1	-119,584.80
Jun 2003 adj full service to agr	(Ramona)	294.00	293.1	86,171.40
Jun 2003 adj full service to agr	voided	408.00	-1,856.5	-757,452.00
Jun 2003 adj full service to agr	(Rainbow)	294.00	1,856.5	545,811.00
Jun 2003 adj full service to agr	voided	408.00	-5.6	-2,284.80
Jun 2003 adj full service to agr	(City of San Diego)	294.00	5.6	1,646.40
Nov 2004 adj full service to agr	voided	418.00	-44.7	-18,684.60
Nov 2004 adj full service to agr	(Carlsbad Municipal)	304.00	44.7	13,588.80
Nov 2004 adj full service to agr	voided	418.00	-228.1	-95,345.80
Nov 2004 adj full service to agr	(Fallbrook)	304.00	228.1	69,342.40
Nov 2004 adj full service to agr	voided	418.00	-33.1	-13,835.80
Nov 2004 adj full service to agr	(Oceanside)	304.00	33.1	10,062.40
Nov 2004 adj full service to agr	voided	418.00	-8.0	-3,344.00
Nov 2004 adj full service to agr	(Otay)	304.00	8.0	2,432.00
Nov 2004 adj full service to agr	voided	418.00	-525.2	-219,533.60
Nov 2004 adj full service to agr	(Rainbow)	304.00	525.2	159,660.80
Nov 2004 adj full service to agr	voided	418.00	-33.4	-13,981.20
Nov 2004 adj full service to agr	(Ramona)	304.00	33.4	10,153.60
Nov 2004 adj full service to agr	voided	418.00	-1.5	-627.00
Nov 2004 adj full service to agr	(City of San Diego)	304.00	1.5	456.00
Nov 2004 adj full service to agr	voided	418.00	-5.3	-2,215.40
Nov 2004 adj full service to agr	(Santa Fe Irrigation)	304.00	5.3	1,611.20
Nov 2004 adj full service to agr	voided	418.00	-160.9	-67,256.20
Nov 2004 adj full service to agr	(Vallecitos)	304.00	160.9	48,913.60
Nov 2004 adj full service to agr	voided	418.00	-656.6	-274,458.80
Nov 2004 adj full service to agr	(Valley Center)	304.00	656.6	199,606.40
Nov 2004 adj full service to agr	voided	418.00	-6.6	-2,758.80
Nov 2004 adj full service to agr	(Vista)	304.00	6.6	2,006.40
Nov 2004 adj full service to agr	voided	418.00	-331.1	-138,398.80
Nov 2004 adj full service to agr	(Yuima)	304.00	331.1	100,654.40
Adjustment Subtotal			0.0	-154,508.10

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SD-07 Total 8,373.2 3,345,489.50

Meter No SD-08

Treated Domestic n/o Red Mtn. n/o Mission Rd.	Constant 100	Previous Reading 24297808	Current Reading 24433308	Volume (Cu. Ft.) 13570000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	311.5	22,739.50
System Access Rate	163.00	311.5	50,774.50
Water Stewardship Rate	30.00	311.5	9,345.00
System Power Rate	60.00	311.5	18,690.00
Treatment Surcharge	92.00	311.5	28,858.00
Delivery Subtotal		311.5	130,207.00
SD-08 Total		311.5	130,207.00

Meter No SD-09

Treated Domestic w/o Rainbow Glen. Rd. n/o Red Mtn.	Constant 100	Previous Reading 5857968	Current Reading 5899034	Volume (Cu. Ft.) 4106800	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	94.3	6,883.80
System Access Rate	163.00	94.3	15,370.90
Water Stewardship Rate	30.00	94.3	2,829.00
System Power Rate	60.00	94.3	5,658.00
Treatment Surcharge	92.00	94.3	8,675.80
Delivery Subtotal		94.3	39,417.40
SD-09 Total		94.3	39,417.40

Meter No SD-11

Untreated Domestic e/o Wilt Rd. n/o Dos Ninos Ave.	Constant 10,000	Previous Reading 10009165	Current Reading 10100683	Volume (Cu. Ft.) 915180000	Rate Desc. Unbundled
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--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Tier 1 Supply Rate	73.00	21,009.6	1,533,700.80
System Access Rate	163.00	21,009.6	3,424,564.80
Water Stewardship Rate	30.00	21,009.6	630,288.00
System Power Rate	60.00	21,009.6	1,260,576.00
Delivery Subtotal		21,009.6	6,849,129.60

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Jul 2002 adj full service to agr voided	349.00	53.0	18,497.00
Jul 2002 adj full service to agr voided (City of San Diego)	236.00	-53.0	-12,508.00
Jul 2002 adj full service to agr voided	349.00	171.4	59,818.60
Jul 2002 adj full service to agr voided (Ramona)	236.00	-171.4	-40,450.40
Jul 2002 adj full service to agr (Ramona)	349.00	-127.8	-44,602.20
Jul 2002 adj full service to agr (Ramona)	236.00	127.8	30,160.80
Jul 2002 adj full service to agr (City of San Diego)	349.00	-16.0	-5,584.00
Jul 2002 adj full service to agr (City of San Diego)	236.00	16.0	3,776.00
Aug 2002 adj full service to agr voided	349.00	11.8	4,118.20
Aug 2002 adj full service to agr voided (City of San Diego)	236.00	-11.8	-2,784.60
Aug 2002 adj full service to agr voided	349.00	139.4	48,650.60
Aug 2002 adj full service to agr voided (Ramona)	236.00	-139.4	-32,898.40
Aug 2002 adj full service to agr (Ramona)	349.00	-106.5	-37,168.50
Aug 2002 adj full service to agr (Ramona)	236.00	106.5	25,134.00
Aug 2002 adj full service to agr	349.00	-16.0	-5,584.00

Agency Name
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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Aug 2002 adj full service to agr (City of San Diego)	236.00	16.0	3,776.00
Sep 2002 adj full service to agr voided	349.00	12.3	4,292.70
Sep 2002 adj full service to agr voided (City of San Diego)	236.00	-12.3	-2,902.80
Sep 2002 adj full service to agr voided	349.00	167.5	58,457.50
Sep 2002 adj full service to agr voided (Ramona)	236.00	-167.5	-39,530.00
Sep 2002 adj full service to agr	349.00	-139.0	-48,511.00
Sep 2002 adj full service to agr (Ramona)	236.00	139.0	32,804.00
Sep 2002 adj full service to agr	349.00	-15.1	-5,269.90
Sep 2002 adj full service to agr (City of San Diego)	236.00	15.1	3,563.60
Oct 2002 adj full service to agr voided	349.00	19.6	6,840.40
Oct 2002 adj full service to agr voided (City of San Diego)	236.00	-19.6	-4,625.60
Oct 2002 adj full service to agr voided	349.00	243.6	85,016.40
Oct 2002 adj full service to agr voided (Ramona)	236.00	-243.6	-57,489.60
Oct 2002 adj full service to agr	349.00	-246.7	-86,098.30
Oct 2002 adj full service to agr (Ramona)	236.00	246.7	58,221.20
Oct 2002 adj full service to agr	349.00	-21.0	-7,329.00
Oct 2002 adj full service to agr (City of San Diego)	236.00	21.0	4,956.00
Nov 2002 adj full service to agr voided	349.00	8.4	2,931.60
Nov 2002 adj full service to agr voided (City of San Diego)	236.00	-8.4	-1,982.40
Nov 2002 adj full service to agr voided	349.00	162.9	56,852.10
Nov 2002 adj full service to agr voided (Ramona)	236.00	-162.9	-38,444.40
Nov 2002 adj full service to agr	349.00	-164.1	-57,270.90
Nov 2002 adj full service to agr (Ramona)	236.00	164.1	38,727.60
Nov 2002 adj full service to agr	349.00	-10.5	-3,664.50
Nov 2002 adj full service to agr (City of San Diego)	236.00	10.5	2,478.00
Dec 2002 adj full service to agr voided	349.00	10.8	3,769.20
Dec 2002 adj full service to agr voided (City of San Diego)	236.00	-10.8	-2,548.80
Dec 2002 adj full service to agr voided	349.00	133.0	46,417.00
Dec 2002 adj full service to agr voided (Ramona)	236.00	-133.0	-31,388.00
Dec 2002 adj full service to agr	349.00	-134.0	-46,766.00
Dec 2002 adj full service to agr (Ramona)	236.00	134.0	31,624.00
Dec 2002 adj full service to agr	349.00	-12.3	-4,292.70
Dec 2002 adj full service to agr (City of San Diego)	236.00	12.3	2,902.80
Jan 2003 adj full service to agr voided	326.00	8.3	2,705.80
Jan 2003 adj full service to agr voided (City of San Diego)	236.00	-8.3	-1,958.80
Jan 2003 adj full service to agr voided	326.00	217.8	71,002.80
Jan 2003 adj full service to agr voided (Ramona)	236.00	-217.8	-51,400.80
Jan 2003 adj full service to agr	326.00	-218.8	-71,328.80
Jan 2003 adj full service to agr (Ramona)	236.00	218.8	51,636.80
Jan 2003 adj full service to agr	326.00	-9.3	-3,031.80
Jan 2003 adj full service to agr (City of San Diego)	236.00	9.3	2,194.80
Feb 2003 adj full service to agr voided	326.00	12.2	3,977.20
Feb 2003 adj full service to agr voided (City of San Diego)	236.00	-12.2	-2,879.20
Feb 2003 adj full service to agr voided	326.00	114.1	37,196.60
Feb 2003 adj full service to agr voided (Ramona)	236.00	-114.1	-26,927.60
Feb 2003 adj full service to agr	326.00	-115.3	-37,587.80
Feb 2003 adj full service to agr (Ramona)	236.00	115.3	27,210.80
Feb 2003 adj full service to agr	326.00	-12.5	-4,075.00
Feb 2003 adj full service to agr (City of San Diego)	236.00	12.5	2,950.00
Mar 2003 adj full service to agr voided	326.00	7.1	2,314.60
Mar 2003 adj full service to agr voided (City of San Diego)	236.00	-7.1	-1,875.60
Mar 2003 adj full service to agr voided	326.00	157.4	51,312.40
Mar 2003 adj full service to agr voided (Ramona)	236.00	-157.4	-37,146.40
Mar 2003 adj full service to agr	326.00	-159.1	-51,866.60
Mar 2003 adj full service to agr (Ramona)	236.00	159.1	37,547.60
Mar 2003 adj full service to agr	326.00	-7.6	-2,477.60
Mar 2003 adj full service to agr (City of San Diego)	236.00	7.6	1,793.60
Apr 2003 adj full service to agr voided	326.00	14.2	4,629.20
Apr 2003 adj full service to agr voided (City of San Diego)	236.00	-14.2	-3,351.20
Apr 2003 adj full service to agr voided	326.00	8.8	2,868.80
Apr 2003 adj full service to agr voided (Ramona)	236.00	-8.8	-2,076.80
Apr 2003 adj full service to agr	326.00	-8.9	-2,901.40
Apr 2003 adj full service to agr (Ramona)	236.00	8.9	2,100.40

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--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Apr 2003 adj full service to agr	326.00	-14.5	-4,727.00
Apr 2003 adj full service to agr (City of San Diego)	236.00	14.5	3,422.00
May 2003 adj full service to agr voided	326.00	10.3	3,357.80
May 2003 adj full service to agr voided (City of San Diego)	236.00	-10.3	-2,430.80
May 2003 adj full service to agr	326.00	-27.2	-8,867.20
May 2003 adj full service to agr (Vista)	236.00	27.2	6,419.20
May 2003 adj full service to agr	326.00	-13.0	-4,238.00
May 2003 adj full service to agr (Ramona)	236.00	13.0	3,068.00
May 2003 adj full service to agr	326.00	-12.9	-4,205.40
May 2003 adj full service to agr (City of San Diego)	236.00	12.9	3,044.40
May 2003 adj full service to agr voided	326.00	32.2	10,497.20
May 2003 adj full service to agr voided (Vista)	236.00	-32.2	-7,599.20
Jun 2003 adj full service to agr voided	326.00	5.5	1,793.00
Jun 2003 adj full service to agr voided (City of San Diego)	236.00	-5.5	-1,298.00
Jun 2003 adj full service to agr	326.00	-30.4	-9,910.40
Jun 2003 adj full service to agr (Ramona)	236.00	30.4	7,174.40
Jun 2003 adj full service to agr	326.00	-11.6	-3,781.60
Jun 2003 adj full service to agr (City of San Diego)	236.00	11.6	2,737.60
Oct 2004 adj full service to agr	326.00	-23.6	-7,693.80
Oct 2004 adj full service to agr (Poway)	236.00	23.6	5,569.60
Oct 2004 adj full service to surface storage - In-Lieu - (San Diego CWA) VOIDED	326.00	1,000.0	326,000.00
Oct 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-1,772.0	-577,672.00
Nov 2004 adj full service to surface storage - Direct - (San Diego CWA) VOIDED	326.00	9,154.1	2,984,236.60
Nov 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-5,318.4	-1,733,798.40
Nov 2004 adj full service to surface storage - In-Lieu - (San Diego CWA) VOIDED	326.00	1,608.0	524,208.00
Nov 2004 adj full service to surface storage - In-Lieu - (San Diego CWA)	326.00	-1,583.0	-516,058.00
Dec 2004 adj from full service to exch	326.00	-1,866.7	-543,344.20
Dec 2004 adj from full service to exch (San Diego CWA)	253.00		421,875.10
Dec 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-6,860.0	-2,236,360.00
Dec 2004 adj full service to surface storage - Direct - (San Diego CWA)	326.00	-1,498.0	-488,348.00
Adjustment Subtotal		-6,936.0	-1,832,281.80
SD-11 Total		14,073.6	5,016,847.80

Meter No SD-DS1

Desalted	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Desalted		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2004 lppds contribution	170.00	222.6	-37,842.00
Adjustment Subtotal		222.6	-37,842.00
SD-DS1 Total		222.6	-37,842.00

Meter No SD-GRP1

Recovered	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Recovered Greenbelt		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 grp voided	437.00	-197.1	-86,132.70
Nov 2004 grp voided	687.00		135,407.70
NOV 2004 GRP	437.00	184.7	80,713.90
NOV 2004 GRP	687.00		-126,888.90
Adjustment Subtotal		-12.4	3,100.00
SD-GRP1 Total		-12.4	3,100.00

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Meter No SD-RCL1

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2004 lrp contribution	250.00	15.9	-3,975.00
Adjustment Subtotal		15.9	-3,975.00
SD-RCL1 Total		15.9	-3,975.00

Meter No SD-RCL10

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
No Address 1		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 contribution	200.00	122.2	-24,440.00
Adjustment Subtotal		122.2	-24,440.00
SD-RCL10 Total		122.2	-24,440.00

Meter No SD-RCL11

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 contribution voided	250.00	-23.6	5,900.00
Nov 2004 contribution	250.00	9.7	-2,425.00
Dec 2004 contribution	250.00	2.9	-725.00
Adjustment Subtotal		-11.0	2,750.00
SD-RCL11 Total		-11.0	2,750.00

Meter No SD-RCL12

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 lrp contribution	250.00	55.0	-13,750.00
Adjustment Subtotal		55.0	-13,750.00
SD-RCL12 Total		55.0	-13,750.00

Meter No SD-RCL13

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 contribution	250.00	40.9	-10,225.00
Dec 2004 contribution	250.00	38.1	-9,525.00
Adjustment Subtotal		79.0	-19,750.00
SD-RCL13 Total		79.0	-19,750.00

Agency Name
San Diego County Water Authority

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Meter No SD-RCL14

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Oct 2004 contribution	234.00	6.3	-1,474.20
Nov 2004 contribution	234.00	1.4	-327.60
Dec 2004 contribution	234.00	1.8	-421.20
Adjustment Subtotal		9.5	-2,223.00
SD-RCL14 Total		9.5	-2,223.00

Meter No SD-RCL15

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Dec 2004 contribution	150.00	21.7	-3,255.00
Adjustment Subtotal		21.7	-3,255.00
SD-RCL15 Total		21.7	-3,255.00

Meter No SD-RCL6

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 lrp contribution	250.00	112.9	-28,225.00
Adjustment Subtotal		112.9	-28,225.00
SD-RCL6 Total		112.9	-28,225.00

Meter No SD-RCL8

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
Nov 2004 lrp contribution	200.00	35.0	-7,000.00
Adjustment Subtotal		35.0	-7,000.00
SD-RCL8 Total		35.0	-7,000.00

Meter No SD-RCL9

Reclaimed	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
Reclaimed		N/A	N/A	N/A	Unbundled

--- ADJUSTMENT ---

	Rate Per AF	Volume AF	Amount
NOV 2004 LPPRE	113.00	5.1	576.30
NOV 2004 LPPRE	267.00		-1,361.70
DEC 2004 LPPRE	113.00	6.5	734.50
DEC 2004 LPPRE	267.00		-1,735.50
Adjustment Subtotal		11.6	-1,786.40

Agency Name
San Diego County Water Authority

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SD-RCL9 Total 11.6 -1,786.40

Meter No SDTJ-01A

Treated Domestic	Constant	Previous Reading	Current Reading	Volume (Cu. Ft.)	Rate Desc.
San Diego-Tijuana	133.68	102724	102724	0	Unbundled

--- DELIVERIES ---

	Rate Per AF	Volume AF	Amount
Delivery Subtotal		0.0	0.00
SDTJ-01A Total		0.0	0.00

--- OTHER CHARGES AND CREDITS ---

	Amount
Conservation Ag.# 55708	-161,480.00
Tier 2 Surcharge for current year	3,108,715.20
Tier 2 Surcharge adjustment for prior year 2003	90,331.20

VOLUME TOTAL	INVOICE TOTAL
41,415.1	\$17,621,493.10

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CASE NUMBER C064293

COURT OF APPEAL OF THE STATE OF CALIFORNIA

THIRD APPELLATE DISTRICT

C064293

COORDINATED PROCEEDING SPECIAL TITLE (RULE 3.550)

QSA COORDINATED CIVIL CASES

Appeal From Judgment Entered February 11, 2010
Sacramento Superior Court Case No. JCCP 4353
Coordination Trial Judge The Hon. Roland L. Candee, Dept. 41
(916) 874-5661

**APPELLANTS SAN DIEGO COUNTY WATER AUTHORITY,
COACHELLA VALLEY WATER DISTRICT, AND THE
METROPOLITAN WATER DISTRICT OF SOUTHERN
CALIFORNIA'S JOINT COMBINED APPELLANTS' REPLY
AND CROSS-RESPONDENTS' BRIEF**

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San Diego and Metropolitan brought a motion for summary adjudication (MSA) to adjudicate the affirmative defenses and cause of action on the ground that the Wheeling Statutes do not apply to the QSA agreements because the Statutes' limited purpose is to prevent facility owners from denying use of unused capacity in water conveyance facilities, and the only agreement addressing conveyance had been validated by operation of law and could not be challenged in Case 1649. The trial court granted the MSA on these grounds and noted that "[r]ecourse to the Wheeling Statutes to provide use of facilities does not appear to be obligatory," and the purpose of the law is "to remedy refusals . . . to allow use of unused capacity." (Supp.AA:187:1846:46743.)

C. Standard of Review

The grant of summary adjudication is subject to de novo review to determine whether triable issues of material fact exist. (*Wiener v. Southcoast Childcare Centers, Inc.* (2004) 32 Cal.4th 1138, 1142 [summary judgment standard]; *Certain Underwriters at Lloyd's of London v. Superior Court* (2001) 24 Cal.4th 945, 972 [summary judgment standard applies to summary adjudication].) Where, as here, there are no triable issues of fact, the moving party is entitled to judgment as a matter of law and summary judgment is appropriately granted. (Code Civ. Proc., § 437c, subd. (f)(1); *Reid v. Google, Inc.* (2010) 50 Cal.4th 512, 520.)

D. The County Does Not Accurately Describe the Scope and Purpose of Wheeling Statutes

The Wheeling Statutes do not apply to the Transfer or Exchange Agreements because their limited purpose, as stated in the statutory text and

explained by its legislative history,⁶² is to prevent water conveyance facility owners from denying use of unused capacity to bona fide water transferors.

The County's brief omitted the critical prefatory language from Water Code section 1810, which provides in relevant part:

Notwithstanding any other provision of law, neither the state, *nor any regional or local public agency may deny a bona fide transferor of water the use of a water conveyance facility which has unused capacity*, for the period of time for which that capacity is available, if fair compensation is paid for that use, subject to the following:

(d) This use of a water conveyance facility is to be made without injuring any legal user of water and without unreasonably affecting fish, wildlife, or other instream beneficial uses and without unreasonably affecting the overall economy or the environment of the county from which the water is being transferred.

(Emphasis added.) Unused capacity is defined as “space that is available within the operational limits of the conveyance system and that the owner is not using during the period for which the transfer is proposed and which space is sufficient to convey the quantity of water proposed to be transferred.” (Wat. Code, § 1811, subd. (e).)

Water Code sections 1810–1814 prevent a public agency that owns water conveyance facilities from denying access to unused capacity within

⁶² Judicial notice of the entire legislative history of Water Code sections 1810–1814 was requested by Metropolitan and San Diego and was granted by the trial court. (AA:23:134:6049–50; Supp.AA:174:1714:43463–70.) Under Evidence Code section 459, subdivision (a), the reviewing court is required to take judicial notice of each matter properly noticed by the trial court. (Evid. Code, § 459(a); *see Strutt v. Ontario Sav. & Loan Assn.*(1970) 11 Cal.App.3d 547, 551 [appellate court took notice of file judicially noticed in trial court].)

those facilities to another entity wishing to transfer water. (Wat. Code, §§ 1810–1814.) In other words, the statutes require that “the owner of a water conveyance system with unused capacity allow others to use the facility to transport water.” (*Metropolitan Water Dist. of Southern California v. Imperial Irr. Dist.* (2000) 80 Cal.App.4th 1403, 1407 (*Metropolitan Water Dist.*)). Upon the request of such a “bona fide transferor,” a facility owner must make a determination of unused capacity and the terms and conditions under which the transferor may make use of that capacity, including “fair compensation” — the costs to the owner of that use. (Wat. Code, § 1810.) The Wheeling Statutes require a conveyance-facility owner to make at least 70 percent of unused capacity available to a transferor, but the Statutes do not prohibit the owner from making more capacity available. (Wat. Code, § 1814.)

The Wheeling Statutes do not apply where a transferor requests conveyance of water by a public agency and that agency voluntarily agrees to provide conveyance regardless of available capacity on terms and conditions agreed upon between the two parties. (Wat. Code, §§ 1810–1814.) The plain language of the Wheeling Statutes is clear; it places no restrictions or requirements on a facility owner’s voluntary agreement to make conveyance capacity available. (Wat. Code, §§ 1810–1814.) Thus, a voluntary agreement between a facility owner and a transferor could contain terms and conditions that vary from those listed in the Wheeling Statutes.

The legislative history demonstrates that the Wheeling Statutes were aimed at addressing a very specific “evil”: the inability of buyers and sellers of water to gain access to and use of available capacity in publicly-owned conveyance facilities. (Supp.AA:174:1714:43767; *see People v. Jeffers* (1987) 43 Cal.3d 984, 993 [“The legislative history of the statute as

well as the historical circumstances of its enactment may be considered in determining the intent of the Legislature”].) The narrow focus of this bill is reflected in all of the legislative materials and documents accompanying its enactment. (*See generally* Supp.AA:174:1714:43463–Supp.AA:176:1714:43846.) Had the Legislature wanted the Wheeling Statutes to apply to any and all transactions that touch upon the transfer and use of water, it could and would have made that intent clear. In the absence of statutory language evidencing such intent, the environmental and economic protections set forth in section 1810, subdivision (d), simply do not apply.

AB 2746 — the bill that amended the Water Code to include sections 1810–1814 — was introduced to remove perceived barriers to certain water transfers. (*See* Supp.AA:174:1714:43478–79.) A Fact Sheet issued one day after this bill had been passed by both houses, cited the following reasons for this legislation:

- We have enacted several statutes which create a framework to sell and trade water while protecting areas of origin and existing water rights.
- There is no legislation which sets forth a rational process for how existing public canals and water conveyance facilities can be used.
- Without this bill large public agencies could block water trades between two willing participants by refusing to let them use the extra space in these canals and aqueducts.

(Supp.AA:176:1714:43767.)

Various bill summaries and analyses prepared for AB 2746 likewise indicate that it had one overarching purpose: to give buyers and sellers of water access to unused capacity in conveyance facilities owned by public agencies that would not otherwise be parties to the transfer. (*See, e.g.,*

Supp.AA:175:1714:43502 [bill analysis, Assembly Committee on Water, Parks, and Wildlife (April 8, 1986): AB 2746 “[p]rohibits the state or any regional or local public agency from denying a bona fide transferor the use of a water conveyance facility which has unused capacity for the period of time for which that capacity is available”]; Supp.AA:175:1714:43606 [bill analysis, Legislative Analyst (May 9, 1986): “This bill requires state, regional, or local agencies to provide unused capacity in their water conveyance facilities for a ‘bona fide transferor’ of water”]; Supp.AA:175:1714:43567 [bill analysis, Senate Committee on Agriculture and Water Resources: “This measure deals with the use of excess capacity of water conveyance facilities throughout California”]; Supp.AA:175:1714:43610 [bill analysis, Senate Rules Committee (August 13, 1986): “This bill prohibits the denial of use of excess capacity in any state on [sic] local water facility to a bona-fide water transferor provided specified conditions are met”]; Supp.AA:175:1714:43561–62 [Republican Analysis, Assembly Water, Parks and Wildlife Committee (August 21, 1986)].)

The County selectively cites to legislative history to show that the statute was written to protect the county of origin; that these protections were “indispensable to the wheeling law’s enactment;” and therefore these protections “must therefore be applied in this case to protect the county’s interest in its environment and economy.” (County R/XAOB at pp. 62–64.) In so doing, the County sets forth a misleading history of the bill that focuses on Inyo County’s⁶³ support of the bill. (County R/XAOB at

⁶³ San Diego, Coachella, and Metropolitan objected to the County’s request for judicial notice of Inyo County Code chapter 18.77. (RA:6:78:1603–609.) The trial court denied the County’s request below because “[t]hese . . . documents are not relevant to resolution of the instant

cont’d on next page

pp. 62–64.) While Inyo County and others lobbied for various broad county-of-origin protections, AB 2746 was amended in the Senate to include the language that currently appears in Water Code section 1810, subdivision (d). (Supp.AA:174:1714:43489–91.) Section 1810, subdivision (d), as adopted, does not refer to environmental and economic impacts associated generally with “sales, leases or exchanges of water” as suggested by Inyo County and Senator McCorquondale, then senator of the 12th District. Rather, section 1810, subdivision (d) refers to environmental and economic impacts associated specifically with “*use of a water conveyance facility.*” (Supp.AA:174:1714:43490 [emphasis in original].) Appellants do not dispute that limited economic and environmental protections were built into the Wheeling Statutes, but contend that the Wheeling Statutes do not apply to all water exchanges and sales, as the legislative history shows.

Statements by individual legislators, such as that from Assemblymember Katz as quoted by the County, about their personal intent or understanding with respect to action taken by the legislative body are irrelevant without some clear evidence that “it is a reiteration of legislative discussion and events leading to adoption of proposed amendments rather than merely an expression of personal opinion.” (*California Teachers Assn. v. San Diego Community College Dist.* (1981) 28 Cal.3d 692, 700–701.) Absent such a showing, personal statements are improper for judicial

cont’d from previous
motion . . . ,” which entails interpretation and application of California Water Code sections 1810–1814, known as the Wheeling Law. (AA:23:133:6050.) As explained in San Diego, Coachella, and Metropolitan’s opposition, this Court should deny the instant request for the same reason — they are not relevant to determine the intent of the California Legislature that enacted the law.

notice. (*Id.*)

The County asserts that the Wheeling Statutes apply to all transfers and exchanges of water. These claims are based on the premise and assumption that the Wheeling Statutes are an omnibus statute that encompasses any and all water transfers and provides blanket protection against any and all economic and environmental impacts associated with such transfers. The Wheeling Statutes are much narrower in scope. The County ignores the purpose of the Wheeling Statutes, which is to give buyers and sellers of water access to any unused capacity in conveyance facilities owned by public agencies that would not otherwise be parties to the transfers. Instead, the County attempts to expand the scope of the statute to mandate that counties make environmental and economic findings anytime water is transferred from one place to another. It ignores the statutory text and introduces its own policy desires and other, inapplicable Water Code sections to argue that county supervisors are in the best position to make environmental and economic findings. (County R/XAOB at p. 64). This interpretation contradicts the statutory language and legislative history of the Wheeling Statutes.

E. The History of Negotiations and Final Agreement Language Demonstrate That the Imperial-San Diego Transfer and Exchange Agreements Do Not Invoke the Wheeling Statutes

Relying on an incomplete version of the negotiating history between Metropolitan and San Diego, the County argues that Appellants acknowledged and expected that the Wheeling Statutes apply. (County R/XAOB at pp. 72–74.) Its version of history focuses on an early and contentious period of negotiations in which the sole means of transporting the Imperial-San Diego Transfer Water would be compelled wheeling

through the Colorado River Aqueduct based on the Wheeling Statutes. Subsequently, Metropolitan and San Diego executed an exchange agreement in 1998, which accomplished the same purpose as a “wheeling” agreement but eliminated substantial disagreements because it did not rely on dedicated capacity in Metropolitan’s Colorado River Aqueduct. That initial agreement was ultimately replaced with the final Exchange Agreement. Metropolitan and San Diego maintain that the Exchange Agreement and the Transfer Agreements are clear on their faces that they do not pertain to the forced use of unused capacity in the water conveyance system of an agency, and thus do not trigger application of the Wheeling Statutes. Nonetheless, the following is offered to correct and explain the history of negotiations.

The Imperial-San Diego transfer was negotiated as a way for San Diego to secure an independent water source for itself to improve its water-supply reliability. In 1995, it negotiated a memorandum of understanding with Imperial for the long-term purchase of up to 500,000 AFY of water, but at that time had not secured a way of transporting the water to San Diego’s service area. (Supp.AA:183:1800:45733–34 [SUF ¶ 51]; AR3/1/10939, 10943, 10950–51, 10953; AR3/6/62809/62809; AR3/6/62941/62941–42; AR3/7/72810/72810, 72824–26, 72828–31; AR3/15/500001/500086.) Early negotiations with Metropolitan to secure dedicated capacity in the Colorado River Aqueduct to transport the San Diego-Imperial transfer water were contentious and unproductive. Metropolitan would not agree to monetary compensation to make available capacity in its Colorado River Aqueduct, and San Diego would not agree to Metropolitan’s financial demands or limit the amount of water transferred to unused capacity in the Aqueduct. (*Id.*)

Metropolitan subsequently adopted a fixed rate for non-firm, or

space-available, wheeling of water and filed an action to validate that rate. (*Metropolitan Water Dist., supra*, 80 Cal.App.4th at p. 1408.) San Diego was one of six defendants that challenged validation. (*Id.*) The anticipated Imperial-San Diego transfer was not the subject of the litigation; the subject of the litigation was whether the Wheeling Statutes prevented Metropolitan from setting a non-firm wheeling rate that applied to wheeling on a space available basis. (*Id.* at pp. 1407, 1418.) The dispute over the wheeling rates stemmed from Metropolitan’s position that dedicating capacity in the Colorado River Aqueduct would result in higher prices for its other member agencies; San Diego maintained that the prices Metropolitan set for wheeling were unjustified and made the Imperial-San Diego transfer deal uneconomical.

Ultimately, Metropolitan and San Diego agreed to sidestep the legal wrangling over available capacity and settle their dispute by considering the deal in two separate transactions whereby: (1) San Diego would acquire the water conserved by Imperial and transfer that supply to Metropolitan and (2) in exchange, Metropolitan would deliver a like amount of water from its sources to San Diego. This arrangement accomplished the same transportation purpose as “wheeling,” but through a means that completely avoided knotting issues under the Wheeling Statutes. The exchange provision was retained in substance in the final 2003 Exchange Agreement. (AR3/1/10939/10939–73)

The Exchange Agreement allowed Metropolitan to continue its objectives of pursuing programs to augment supplies it needed to convey through the Colorado River Aqueduct, allowed San Diego to meet its objectives of securing a reliable, continuous source of additional supply, and most importantly, put aside contentious arguments that existed between the two parties over dedicated capacity. Because Metropolitan has multiple

water sources available to it, such as water from the Colorado River, the State Water Project, and water stored in surface-water reservoirs and groundwater-banking programs, multiple supply sources are available for delivery to San Diego. (Supp.AA:183:1800:45732–33 [SUF ¶ 49]; AR3/1/10939/10939, 10943, 10950; AR3/16/507387/507418, 507535, 504648–49; AR3/17/514001/514027–37.) It is through these other sources that Metropolitan is able to deliver to San Diego “Exchange Water” on a regular basis in lieu of the “water that [San Diego] has made available to Metropolitan under the Transfer Agreement.” (AR3/10939/10943.)

Under the Exchange Agreement, Metropolitan agreed that if Imperial-San Diego conserved water or canal lining water is delivered to Metropolitan’s point of diversion from the Colorado River at Lake Havasu, in an amount up to 277,700 AFY, Metropolitan will deliver an equal amount of exchange water to San Diego at the San Diego Aqueduct near the San Luis Rey River in San Diego County. (Supp.AA:182:1763:45401–402 [SUF ¶ 27]; AR3/1:10939:10948–50.) Under this agreement, Metropolitan did not agree that unused capacity was available or would be made available in its facility the Colorado River Aqueduct. (*See generally* AR3/1/10939/10939–73.)

In addition, under the agreement Metropolitan has the right to deliver Exchange Water utilizing such facilities and by such delivery path as it determines in its sole discretion:

Utilization of a particular delivery path for any such delivery shall not operate as or be deemed to be a commitment to utilize the same delivery path for any future delivery. Metropolitan has not dedicated and shall not be deemed or construed to have dedicated any particular facilities for delivery of the Exchange Water.

(Supp.AA:182:1763:45402 [SUF ¶ 30]; AR3:1:10939:10951.) In other

words, the Exchange Agreement provides San Diego no right to use unused capacity of particular Metropolitan facilities as would occur under the Wheeling Statutes, but contractually obligates Metropolitan to exchange San Diego's water or provide like quantities of water through whatever facilities it sees fit. (AR3:1:10939:10943.) The Exchange Agreement also expressly contemplates that unused capacity may not be available in the Colorado River Aqueduct, providing that "[San Diego] will use reasonable best efforts to support all reasonable efforts by Metropolitan to promote and secure surplus criteria on the Colorado River with the objective of maintaining a full Colorado River Aqueduct." (Supp.AA:182:1763:45403 [SUF ¶ 33]; AR3:1:10939:10940, 10961.)

In sum, as the complete history of negotiations demonstrates, the final, negotiated agreements took an entirely different approach than space-available wheeling under section 1810.

F. The Wheeling Statutes Do Not Apply to the Transfer Agreement

The County asserts that the Wheeling Statutes apply because the Transfer Agreement involves three parties (a transferor, transferee, and transportation provider) and transfers water through Metropolitan's aqueduct. (County R/XAOB pp. 67, 71.) The County also argues that the Transfer Agreement lists portions of the Wheeling Statutes as the operative law and that the Transfer Agreement, not the Exchange Agreement sets forth the impact analysis and approvals needed before the transfer would go forward. (County R/XAOB pp. 72–73.) The County attempts to use the Transfer Agreement, which expressly provides there are no third party beneficiaries, to bootstrap itself into the Wheeling Statutes.

The Transfer Agreement does not itself authorize the use of any

THE METROPOLITAN WATER DISTRICT ADMINISTRATIVE CODE

Disclaimer

THIS ADMINISTRATIVE CODE REFLECTS THE ACTIONS OF METROPOLITAN'S BOARD OF DIRECTORS THROUGH ITS MEETING ON November 18, 2014, AND MAY NOT REFLECT THE MOST CURRENT ACTIONS OF METROPOLITAN'S BOARD. IN CASE OF ANY DISCREPANCY BETWEEN THIS ONLINE VERSION AND METROPOLITAN'S, OFFICIAL RECORDS, THE OFFICIAL RECORDS WILL PREVAIL.

Chapter 4

CLASSIFICATION AND RATES

Sec.

4400. Basic Statement

4401. Rates

4402. Readiness-to-Serve Charge

4403. Capacity Charge

4404. Purchase Orders

4405. Wheeling Service

§ 4400. Basic Statement.

The rates and charges set forth herein, so far as practicable, shall result in revenue to meet the obligations set forth in Section 134 of the Metropolitan Water District Act.

Section 312.1 based on Res. 7666 - April 13, 1976; amended by M.I. 33642 - March 10, 1981. Section 312.1 repealed and Section 4400 adopted by M.I. 36464 - January 13, 1987, effective April 1, 1987; amended by M.I. 41468- June 13, 1995.

§ 4401. Rates.

(a) The rates per acre-foot for water sold and delivered for each class of service on order of any member public agency for use therein shall be as follows:

(1) For all water that does not meet criteria for other classes of service or special programs as defined in this Division, each of the following is applicable:

System Access Rate:

Effective Date:	01/01/2014	Rate:	\$243.00
	01/01/2015		\$257.00
	01/01/2016		\$259.00

Water Stewardship Rate:

Effective Date:	01/01/2014	Rate:	\$ 41.00
	01/01/2015		\$ 41.00
	01/01/2016		\$ 41.00

System Power Rate:

Effective Date:	01/01/2014	Rate:	\$161.00
	01/01/2015		\$126.00
	01/01/2016		\$138.00

Treatment Surcharge (Applicable to treated water):

Effective Date:	01/01/2014	Rate:	\$297.00
	01/01/2015		\$341.00
	01/01/2016		\$348.00

Supply Rate:

Tier 1 Supply Rate – The Tier 1 Supply Rate shall apply to water purchases which in the aggregate for any calendar year, are less than or equal to 60 percent of the Revised Base Firm Demand of such member agency as specified in Section 4122, unless that member agency has executed a Purchase Order, as defined in Section 4120, in which case the Tier 1 Supply Rate applies to water purchases as established by the Purchase Order terms.

Effective Date:	01/01/2014	Rate:	\$148.00
	01/01/2015		\$158.00
	01/01/2016		\$156.00

Tier 2 Supply Rate –The Tier 2 Supply Rate shall apply when a member agency’s cumulative total of water purchases for the calendar year exceeds 60 percent of the member agency’s Revised Base Firm Demand as specified in Section 4122, or according to the terms of a Purchase Order for member public agencies that execute a Purchase Order.

Effective Date:	01/01/2014	Rate:	\$290.00
	01/01/2015		\$290.00
	01/01/2016		\$290.00

(2) [Reserved]

(b) The rates for water established by Section 4401(a) shall not apply to water sold and delivered by the District to any purchaser other than a member public agency; and said rates for water shall not apply to water sold and delivered by the District for any use outside the District, or to water sold and delivered by the District for any use within the District in substitution for water used outside the District, regardless of whether or not such water be purchased by, or delivered pursuant to the order of, any member public agency; but such water shall be sold and delivered pursuant to such contract and upon such terms and conditions as the Board shall authorize and determine for each such transaction.

(c) For purposes of agreements existing under the Local Resource Program, Local Project Program, Groundwater Recovery Program and other similar programs, references to the “full service water rate,” “full service treated water rate,” “treated non-interruptible water rate” or “other prevailing rate” or to the “reclaimed water rate” or “recycled service rate” shall be deemed to refer to the sum of the System Access Rate, Water Stewardship Rate, System Power Rate, the expected weighted average of Tier 1 Supply Rate and Tier 2 Supply Rate (equal to the estimated sales revenues expected from the sale of water at the Tier 1 and Tier 2 Supply Rates divided by the total District sales in acre-feet expected to be made at the Tier 1 and Tier 2 Supply Rates), a Capacity Charge expressed on a dollar per acre-foot basis and Treatment Surcharge.

Section 312.3 based on Res. 7666 - April 13, 1976; paragraphs (a)(1) through (a)(3) [formerly Sections 312.3.1 through 312.3.3] amended by M.I. 31919 – August 19, 1977, M.I. 33644 – March 10, 1981; amended by M.I. 33642 – March 10, 1981; paragraphs (a)(1) through (a)(3) amended by M.I. 34156 – March 9, 1982, effective July 1, 1982, M.I.34635 - March 8, 1983 effective July 1, 1983, M.I. 34851 – September 13, 1983 effective January 1, 1984; paragraphs (a)(4) and (a)(5) [formerly Sections 312.3.4 and 312.3.5] added and paragraphs (b) and (c) [formerly Sections 312.3.4 and 312.5] renumbered by M.I. 34867 – September 13, 1983;

paragraph (a)(4) amended by M.I. 34930 – November 8, 1983, effective January 1, 1983; paragraphs (a)(1) through (a)(3) amended by M.I. 35064 – March 13, 1984 effective July 1, 1984; paragraph (a)(4) amended by M.I. 35482 – January 8, 1985; paragraphs (a)(1) through (a)(3) amended by M.I. 35558 – March 12, 1985 effective July 1, 1985, M.I. 36001 – March 11, 1986. Section 312.3 repealed and Section 4401 adopted by M.I. 36464 – January 13, 1987, effective April 1, 1987; paragraph (a)(1) through (a)(3) and (a)(5) amended by M.I. 36540 - March 10, 1987, effective July 1, 1987; paragraph (c) deleted by M.I. 36811 - September 22, 1987; paragraph (a)(4) amended by M.I. 37006 - February 9, 1988; paragraphs (a)(1) through (a)(3) and (a)(5) amended by M.I. 37045 - March 8, 1988, effective July 1, 1988; par. (a)(4) amended by M.I. 37566 - March 14, 1989 and pars. (a)(1) through (a)(3) and (a)(5) amended by M.I. 37574 - March 14, 1989, effective July 1, 1989; paragraph (a)(4) amended by M.I. 37764 - July 11, 1989, effective August 1, 1989; paragraphs (a)(1) through (a)(5) amended by M.I. 38196 - April 17, 1990, effective July 1, 1990; paragraph (b) renumbered to (c) and new paragraph (b) added by M.I. 38196 - April 17, 1990; paragraphs (a)(1) through (a)(5) amended by M.I. 38867 - April 9, 1991, effective July 1, 1991; paragraph (b) repealed and paragraph (c) renumbered by M.I. 39370 - December 10, 1991; paragraph (a)(1), and (a)(3) through (a)(5) amended by M.I. 39503 – March 10, 1992, effective July 1, 1992; paragraphs (a)(1), and (a)(3) through (a)(5) amended by M.I. 40142 - March 9, 1993, effective July 1, 1993 and April 1, 1993 respectively; paragraph (a)(5) amended for rate to become effective July 1, 1993 by M.I. 40173 - April 13, 1993; paragraphs (a)(1), (a)(3) through (a)(6) amended by M.I. 40731 - March 8, 1994; paragraphs (a)(1) through (a)(3) and (a)(5) amended and (a)(6) added by M.I. 40865 - June 14, 1994; paragraph (a) amended, paragraph (b) added and paragraph (c) amended and renumbered by M.I. 41468 - June 13, 1995; paragraph (a)(3) amended by M.I. 41652 - November 14, 1995; paragraph (a) amended by M.I. 41816 - March 12, 1996 to be effective January 1, 1997; paragraph (a)(1) amended by M.I. 42278 - February 11, 1997; paragraphs (a)(1) through (a)(4) amended and paragraph (a)(5) added by M.I. 42335 and 42336 - March 11, 1997; paragraphs (a)(1) and (a)(2) amended by M.I. 42608 - September 9, 1997; paragraphs (a) (1), (2), (3), (4), and (b) amended by M.I. 42870 - March 10, 1998; paragraphs (a) (1), (2), (3), (4), and (b) amended by M.I. 43354 - January 12, 1999; paragraphs (a) (1), (2), (3), and (4) amended by M.I. 43936 – March 14, 2000; paragraphs (a)(1), (2), (3), (4), and (5) amended by M.I. 44386 – March 13, 2001; paragraph (a) (1) and (2) amended, paragraphs (a) (3), (4), and (5) sub-paragraph (b) deleted, old paragraph (c) renamed (b), and new paragraphs (a) (3) and (c) added by M. I. 44812 - March 12, 2002; paragraph (a) (2) amended by M. I. 45249 - March 11, 2003; paragraph (c) amended by M. I. 45257 - March 11, 2003; paragraphs (a) (1), (2), (3) amended by M.I. 45690 – March 9, 2004; paragraph (c) amended by M. I. 45943 – October 12, 2004; paragraph (a) (1), (2), (3) amended by M. I. 46149 - March 8, 2005; paragraphs (a) (1) (2) (3) amended by M. I. 46593 – March 14, 2006; paragraph (a)(1)-(3) amended by M. I. 47064 – April 10, 2007; paragraph (a)(3) amended by M. I. 47259 – October 9, 2007; paragraphs (a)(1)(2) and (3) amended by M.I. 47422 – March 11, 2008; paragraphs (a)(1)(2) and (3) amended by M.I. 47859 – April 14, 2009; paragraph (a)(1) amended by M.I. 48232 – April 13, 2010; paragraphs (a)(1)-(3) amended by M.I. 49026 – April 10, 2012; paragraph (a)(2) amended by M.I. 49272 - December 11, 2012; paragraph (a)(1) amended, paragraph (a)(2) deleted and reserved, and paragraph (3) deleted by M.I. 49734 – April 8, 2014; amended paragraph (a)(1) sections covering “Tier 1 Supply Rate,” and “Tier 2 Supply Rate” by M.I. 49952 - November 18, 2014.

§ 4402. Readiness-to-Serve Charge.

(a) The readiness-to-serve charge shall be set by the Board from time to time to recover the costs of emergency system storage and the cost of system conveyance capacity for peak and standby use not recovered by property tax revenue. The readiness-to-serve charge will be allocated among the member public agencies beginning January 1, 2003, in proportion to the average of deliveries (including exchanges and transfers) through Metropolitan’s system (in acre feet) to each member public agency during the ten-year period ending June 30, 2001; and thereafter as a ten-year rolling average; provided that Metropolitan sales of reclaimed water under the Local Projects Program, and Local Resources Program, groundwater under the Groundwater Recovery Program and deliveries under Replenishment and Interim Agricultural Water Service shall not be included in the water deliveries calculation.

(b) The readiness-to-serve charge shall be due monthly, quarterly or semiannually, as agreed upon by Metropolitan and the member public agency. If a standby charge is collected on behalf of a member public agency, the member public agency will be credited for the amount of net collections. This charge is subject to the provisions of Sections 4507 and 4508.

(c) The General Manager shall establish and make available to member public agencies procedures for administration of the readiness-to-serve charge, including filing and consideration

of applications for reconsideration of their respective readiness-to-serve charge. The General Manager shall review any applications for reconsideration submitted in a timely manner. The General Manager shall also establish reasonable procedures for the filing of appeals from his determination.

M.I. 41468 - June 13, 1995; paragraph (b) amended by Resolution 8492 adopted by M.I. 41816 - March 12, 1996; paragraphs (b) and (e) amended by M. I. 44582 – August 20, 2001; paragraph (a) amended, paragraphs (b) and (c) deleted, paragraphs (d) and (e) renamed (b) and (c) respectively by M. I. 44812 - March 12, 2002; paragraph (a) amended by M. I. 45249 and M. I. 45257 - March 11, 2003; paragraph (a) amended by M. I. 45943 – October 12, 2004.

§ 4403. Capacity Charge.

(a) Beginning January 1, 2004, the capacity charge shall be payable by each member agency for system capacity based on the maximum summer day demand placed on the system between May 1 and September 30 for the three-calendar year period ending December 31, 2002, and thereafter for a rolling three-calendar year period.

(b) The capacity charge shall be due monthly, quarterly or semiannually, as agreed upon by Metropolitan and the member public agency.

M.I. 41468 - June 13, 1995; paragraphs (b) and (f) amended by M. I. 44582 – August 20, 2001; old Section deleted and renamed, new paragraphs (a)-(d) added by M. I. 44812 - March 12, 2002; paragraphs (a) and (b) amended by M. I. 45249 - March 11, 2003 and paragraphs (a) and (b) amended and paragraphs (c) and (d) deleted by M. I. 45257 - March 11, 2003; paragraph (a) amended by M. I. 45943 – October 12, 2004; Section title and paragraph (b) amended by M. I. 46148 - March 8, 2005.

§ 4404. Purchase Orders.

(a) The General Manager shall establish and make available to member public agencies the form of the Purchase Order and procedures for its administration. The General Manager shall establish a deadline by which all Purchase Orders shall be executed by member public agencies that desire to enter into such agreements with the District. Following the deadline established by the General Manager, no member public agencies will be allowed to execute Purchase Orders.

(b) The term of the Purchase Orders shall be specified in the Purchase Order. All Purchase Orders in effect for the same time period shall be on substantially the same terms. All amendments to Purchase Orders require approval by the Board.

(c) Each member public agency executing a Purchase Order shall commit to purchase at least its Purchase Order Commitment during the term of the Purchase Order.

(d) Purchase Orders shall permit a member public agency to purchase up to 90 percent of its Base Period Demand at the Tier 1 Supply Rate for the term of the Purchase Order.

(e) All water deliveries under a Purchase Order shall be subject to the operational conditions and constraints contained in this Division. In addition, all billings and payments for such water shall be subject to the provisions of this Division in the same manner as other water delivered by Metropolitan.

M.I. 41468 - June 13, 1995; old Section deleted and renamed, new paragraphs (a)-(g) added by M. I. 44812 - March 12, 2002; paragraph (d) amended by M.I. 48800 - September 13, 2011; amended paragraphs (b), (d), and (e), deleted prior paragraphs (e) and (f), and renumbered prior paragraph (g) as paragraph (e) by M.I. 49952 - November 18, 2014.

§ 4405. Wheeling Service.

(a) Subject to the General Manager's determination of available system capacity, Metropolitan will offer wheeling service. The determination whether there is unused capacity in Metropolitan's conveyance system, shall be made by the General Manager on a case-by-case basis in response to particular requests for wheeling.

(b) The rates for wheeling service shall include the System Access Rate, Water Stewardship Rate and, for treated water, the Treatment Surcharge, as set forth in Section 4401. In addition, wheeling parties must pay for their own cost for power (if such power can be scheduled by the District) or pay the District for the actual cost (not system average) of power service utilized for delivery of the wheeled water. Further, wheeling parties shall be assessed an administration fee of not less than \$5,000 per transaction.

M.I. 42335 - March 11, 1997; paragraph (a) amended, paragraphs (b) and (c) deleted, and new paragraph (b) added by M. I. 44812 - March 12, 2002.

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16 SUPERIOR COURT OF THE STATE OF CALIFORNIA

17 COUNTY OF SAN FRANCISCO

18 SAN DIEGO COUNTY WATER
19 AUTHORITY,

Petitioner and Plaintiff,

20 vs.

21 METROPOLITAN WATER DISTRICT OF
22 SOUTHERN CALIFORNIA; ALL PERSONS
INTERESTED IN THE VALIDITY OF THE
23 RATES ADOPTED BY THE
24 METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA ON APRIL 10,
25 2012 TO BE EFFECTIVE JANUARY 1, 2013
AND JANUARY 1, 2014; and DOES 1-10,

26 Respondents and Defendants.

Case No. CPF-10-510830
Case No. CPF-12-512466

**DECLARATION OF JON C.
LAMBECK**

Hon. Curtis E.A. Karnow
Dept.: 304

Actions Filed: June 11, 2010; June 8, 2012

Trial Date: March 30, 2015

DECLARATION OF JON C. LAMBECK

I, JON C. LAMBECK, declare and state as follows::

1. I am the Section Manager of the Power Operations and Planning Section in the Water System Operations Group of The Metropolitan Water District of Southern California (“MWD”). I have worked for MWD for 16 years.

2. Throughout my employment at MWD, I have been responsible for managing MWD’s power resource portfolio in accordance with the Board’s policies and directives. Among other things, I oversee and manage MWD’s power contracts and costs for pumping imported water supplies to MWD’s service area.

3. The following is based on my personal and professional knowledge and if called as a witness, I could and would testify competently thereto under oath.

4. MWD was organized for the purpose of providing supplemental imported water supplies to its member agencies; and it provides these supplemental supplies from two sources—the Colorado River and the State Water Project.

POWER REQUIRED TO DELIVER COLORADO RIVER WATER

5. The first source of water acquired by MWD was the Colorado River pursuant to the Boulder Canyon Project Act of 1928. The Act authorized the Secretary of the Interior to execute contracts for delivery of Colorado River water, and further authorized power contracts for electric energy generated at the Hoover Powerplant. The Hoover Dam and Powerplant are owned and operated by the federal government, acting through the Bureau of Reclamation.

6. In 1930, MWD executed contracts for both Colorado River water and Hoover power. MWD’s Hoover power contract was renewed in 1987, with a term that expires in 2017.

7. MWD also executed a contract with the Secretary of the Interior in 1933 to provide the funding to construct Parker Dam on the Colorado River. Parker Dam creates Lake Havasu, which acts as the forebay for MWD’s Intake Pumping Plant for Colorado River water.

1 The Parker Dam contract grants MWD one-half of the electric energy generated at the Parker
2 Powerplant. Parker Dam and Powerplant are owned and operated by the federal government,
3 acting through the Bureau of Reclamation.

4 8. The contracts for MWD's purchase of power generated at the federally
5 owned and operated Hoover and Parker Powerplants generally provide the power required to
6 pump approximately 600,000 to 700,000 acre-feet of MWD's Colorado River water supplies
7 annually. These energy supplies are insufficient to maintain pumping of a full Colorado River
8 Aqueduct.

9 9. MWD has additional arrangements to obtain power supplies for pumping its
10 Colorado River water. An agreement with Southern California Edison (Edison) allows MWD to
11 exchange its Hoover and Parker power that is not used in one month for an equal amount of power
12 in later months when MWD's power supplies are inadequate. The agreement also requires Edison
13 to provide additional power to MWD called Benefit Energy. The amount of Benefit Energy
14 MWD receives is inversely related to how much pumping occurs on the Colorado River
15 Aqueduct; i.e., the more water pumped through the Aqueduct, the higher the electrical load, which
16 reduces the benefits to Edison and reduces the Benefit Energy Edison is required to provide.
17 Therefore, the amount of Benefit Energy available to MWD is reduced by any increase in
18 pumping on the Colorado River Aqueduct.

19 10. The amount of energy provided by the Hoover and Parker federal power
20 contracts and the exchange and Benefit Power agreement with Edison do not provide sufficient
21 power to pump MWD's Colorado River water supplies in all years. For that reason, MWD is
22 required to purchase supplemental power to move its Colorado River water supplies in some
23 years.

24 11. MWD does not own or operate the generating plants that produce the power
25 it uses to pump its Colorado River water supplies. As described above, those powerplants are
26 owned and operated by the federal government. MWD does not have excess supplies of power to
27 pump non-MWD supplies through the Colorado River Aqueduct. In any month in which MWD
28

1 has unused power available under its federal power contracts, it exchanges the unused power for
2 future Edison power supplies.

3 12. As a result, MWD requires that any party seeking to move non-MWD water
4 through its Colorado River Aqueduct to purchase, or arrange for MWD to purchase, the power
5 supplies required to pump that water. The amount of power required to pump an acre-foot of
6 water through the Aqueduct is 2,000 kilowatt-hours. The additional pumping would also reduce
7 the amount of Benefit Power available to MWD under its agreement with Edison. To compensate
8 for this loss to MWD, an additional 317 kilowatt-hours per acre-foot of water pumped must be
9 provided to MWD. Finally, any Colorado River water that is pumped through MWD's Colorado
10 River Aqueduct is diverted above Parker Dam and cannot generate energy at the Parker
11 Powerplant. This reduces the power available to MWD under its right to one-half of the Parker
12 energy. To compensate for this loss, an additional 32 kilowatt-hours per-acre foot are required to
13 make MWD whole for undertaking to pump non-MWD water through the Colorado River
14 Aqueduct that would otherwise have flowed through the Parker Powerplant. In total, 2,349
15 kilowatt-hours of energy must be provided to MWD to convey each acre-foot of non-MWD water
16 supplies through the Colorado River Aqueduct.

17 13. Supplemental power can be purchased and transmitted to MWD to pump
18 non-MWD water through the Colorado River Aqueduct. The market rate for electric energy prices
19 is regularly tracked and published for various regions in California. During the period 2011
20 through 2014, MWD used the Platt's Market Report index as reflective of the supplemental power
21 costs for electric energy used for its pump plants on the Colorado River Aqueduct. The regional
22 index applicable to energy sold for use in the Colorado River Aqueduct area is designated South-
23 of-Path-15.

24 14. Any party seeking to pump non-MWD water through the Colorado River
25 Aqueduct would have to purchase, or arrange for MWD to purchase on its behalf, supplemental
26 power at the cost reflected in the South-of-Path-15 index published by Platt's Market Report.
27 Because MWD utilizes the pumping capacity on the Aqueduct for its own water supplies during
28 off-peak hours to minimize its costs, the pumping of non-MWD water would occur during on-

1 peak hours and the on-peak price index published in Platt's Market Report is indicative of the
2 price that would be paid to pump non-MWD water.

3 15. In addition, MWD would incur administrative costs to handle the
4 purchasing and scheduling of the supplemental energy for delivery over the appropriate
5 transmission systems to be used at MWD's pumping plants. In 2007, MWD calculated that the
6 staff support requirement for scheduling transmission and delivery of supplemental power to
7 pump non-MWD water through the Colorado River Aqueduct would be 28.4 hours per month.
8 That estimate would be conservative for the years 2011 through 2014 because of increased
9 complexity in the wholesale energy market.

10 11 **POWER REQUIRED TO DELIVER STATE WATER PROJECT WATER**

12 16. MWD executed a contract with the California Department of Water
13 Resources (DWR) in 1960 for water supplies from the State Water Project. DWR constructed and
14 operates the State Water Project, and is responsible for acquiring the power necessary to pump the
15 water through the California Aqueduct to MWD's service area. MWD is contractually bound to
16 pay for its share of the cost of the State Water Project regardless of the volume of water available
17 in each year. MWD's financial obligation includes payment of the cost of energy incurred by
18 DWR to pump any water delivered to MWD.

19 17. As with the Colorado River water supply, MWD does not own or operate
20 the generating plants that produce the energy to pump the water to its service area. For the State
21 Water Project, DWR uses hydroelectric energy produced by facilities constructed as part of the
22 project and off-aqueduct facilities that DWR has invested in to obtain dedicated generating
23 capacity. However, these power sources are insufficient to meet demands for operating the system
24 at times, and DWR must then purchase power at market prices.

25 18. MWD pays for the power costs incurred by DWR to move water to MWD's
26 service area through the State Water Project. There are two charges that recover the power costs –
27 the Variable charge and the Off Aqueduct Power Facilities charge.

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16 SUPERIOR COURT OF THE STATE OF CALIFORNIA

17 COUNTY OF SAN FRANCISCO

18 SAN DIEGO COUNTY WATER
AUTHORITY,

19 Petitioner and Plaintiff,

20 vs.

21 METROPOLITAN WATER DISTRICT OF
22 SOUTHERN CALIFORNIA; ALL PERSONS
INTERESTED IN THE VALIDITY OF THE
23 RATES ADOPTED BY THE
METROPOLITAN WATER DISTRICT OF
24 SOUTHERN CALIFORNIA ON APRIL 10,
2012 TO BE EFFECTIVE JANUARY 1, 2013
25 AND JANUARY 1, 2014; and DOES 1-10,

26 Respondents and Defendants.

Case No. CPF-10-510830
Case No. CPF-12-512466

**DECLARATION OF DEVENDRA N.
UPADHYAY**

Hon. Curtis E.A. Karnow
Dept.: 304

Actions Filed: June 11, 2010; June 8, 2012

Trial Date: March 30, 2015

DECLARATION OF DEVENDRA N. UPADHYAY

I, DEVENDRA N. UPADHYAY, declare and state as follows:

1. I am the Group Manager of the Water Resources Management Group of The Metropolitan Water District of Southern California ("MWD"). I have held this position for about five years. Prior to this position, I was the Budget and Financial Planning Section Manager at MWD for three years. I was also employed at MWD from 1995 to 2005 working in the Planning and Resources Division.

2. As Group Manager, I am responsible for managing MWD's water resource portfolio in accordance with the Board's policies and directives. Among other things, I oversee and manage: (a) development and use of MWD's imported water supplies; (b) development and implementation of MWD's programs related to conservation, local resource projects, groundwater recovery and conjunctive use; and (c) planning activities and policy guideline development related to MWD's water supply plans and integrated resources plans.

3. The following is based on my personal and professional knowledge and if called as a witness, I could and would testify competently thereto under oath.

MWD'S WATER RESOURCES PORTFOLIO

4. MWD was organized for the purpose of providing a supplemental imported water supply to its member agencies. Soon after it was established in 1928, MWD executed a contract with the Secretary of the Interior for delivery of Colorado River water supplies. The Colorado River remained MWD's sole source of water until it executed a contract in 1960 with the California Department of Water Resources (DWR) for water from the State Water Project (SWP).

5. MWD is a supplier of supplemental water to its 26 member agencies, who vary in the amount of local supplies they have available to meet their demands. Overall, MWD's imported supplies are used to cover approximately one-half of the total demands in its service area. For example, for the fiscal year ending June 30, 2014, MWD's member agencies used about 1.94 million acre-feet of local water supplies to meet demands, and used 1.91 million acre-feet of imported water delivered by MWD to cover demands in excess of local supplies. For the fiscal years 2011 through 2014, MWD's deliveries of imported water have ranged from 1.7 million acre-

1 11. Other California agencies objected to MWD's contract due to concerns that
2 its priority in time would give MWD a priority in right over their contracts. The objections were
3 resolved in 1931 by a Seven Party Agreement that established three senior priorities for
4 agricultural agencies, including the Imperial Irrigation District (IID), to use 3.85 million afy.
5 MWD holds the fourth priority to 550,000 afy, bringing the total to California's 4.4 mafy limit.

6 12. The Seven Party Agreement established additional priorities. The fifth
7 priority to 662,000 afy was shared by MWD (550,000 afy) and San Diego (112,000 afy).
8 However, Colorado River water to meet these priorities was only available when additional water
9 supplies (either surplus water and/or unused water from Arizona and Nevada) allowed for
10 California to exceed its 4.4 million afy limit.

11 13. In 1931, MWD's 1930 contract with the Secretary was amended to
12 incorporate the terms of the Seven Party Agreement. The City of San Diego executed a contract
13 with the Secretary for Colorado River water in 1933, which also reflected its portion of the fifth
14 priority water right under the Seven Party Agreement. San Diego also obtained capacity in the
15 All-American Canal that was constructed to deliver Colorado River water to IID, but it never built
16 a pipeline to connect the city to the Canal, so its Colorado River water remained unused. In 1946,
17 San Diego's Colorado River contract was assigned to MWD and merged with MWD's contract
18 when the voters of the San Diego County Water Authority, of which the City of San Diego is a
19 member agency, approved annexing to MWD.

20 14. MWD's priority rights to California's Colorado River water supplies now
21 total 1,212,000 afy (550,000 afy under Priority 4 and 662,000 afy under Priority 5).

22 15. MWD constructed, owns, and operates the Colorado River Aqueduct (CRA)
23 to deliver its Colorado River water supplies. The CRA has the capacity to deliver 1,250,000 afy,
24 and MWD uses additional water made available by other programs or stored in Lake Mead to
25 deliver a full CRA when required to meet its operational needs.

26 **MWD's STATE WATER PROJECT SUPPLIES**

27 16. The SWP is a complex system of dams, reservoirs, aqueducts, pumping
28 stations, power facilities and ancillary facilities that stretch from Lassen County in Northern

1 California to Riverside County in the south. The SWP is owned and operated by the Department
2 of Water Resources (DWR) on behalf of the State of California.

3 17. In 1959, the State Legislature adopted the Burns-Porter Act, which
4 authorized construction of the SWP and provided that \$1.5 billion in general obligation bonds
5 could be issued for that purpose. Most of the SWP facilities were completed by the mid-1970s,
6 though additional components have been constructed since that time.

7 18. The SWP was designed and constructed to serve as a multipurpose facility.
8 Its purposes include flood control, water supply, recreation, and fish and wildlife enhancement,
9 each of which is treated as a separate purpose for project cost allocation. The water supply
10 purpose is further divided into water conservation and water transportation, which again are
11 treated separately. The water conservation purpose of the SWP includes the dams constructed to
12 retain the water flowing from the Sierra Nevada mountains and to store the water until needed for
13 delivery. The water transportation purpose includes the California Aqueduct, pumping plants,
14 power generating plants, and other facilities needed to move the water from storage reservoirs to
15 the SWP contractors.

16 19. The water supply of the SWP is delivered to 29 public agencies located
17 throughout the State, including MWD, pursuant to long-term water supply contracts entered into
18 with DWR. In 1960, MWD executed the first and largest of these contracts, which then served as
19 the prototype for the remaining water supply contracts.

20 20. The relationship between DWR and MWD, as well as other state water
21 contractors, is very different than in a typical commercial contract. First, the contractors are
22 ultimately liable for all water conservation and water transportation costs that are incurred. DWR
23 serves merely as a pass-through for payment of the costs of SWP facilities.

24 21. Second, DWR is fully reimbursed for the costs of constructing and
25 operating the SWP facilities regardless of the volume of water delivered. DWR operates the SWP,
26 but MWD and the other contractors bear the responsibility to pay all the costs, including the costs
27 of the bonds that financed the SWP.

28

1 22. Third, the contractors have a right to continue receiving water in perpetuity;
2 DWR cannot unilaterally terminate the contracts, even at the end of their current terms. Under the
3 SWP contract MWD has a participation right to receive its proportionate benefit of the SWP
4 facilities, including both conserved water supply and conveyance.

5 23. In years when there are sufficient supplies for a 100% allocation under the
6 SWP, MWD is entitled to receive 1.9 million af. In the 42 years since deliveries to MWD
7 commenced, the SWP has provided MWD with a 100% allocation in 25 years. MWD received
8 only five percent of its allocation last year, 2014. Regardless of the allocation of water delivered,
9 in all years the SWP contractors, including MWD, are required to pay their proportionate share of
10 the SWP costs.

11 24. One other right MWD has under its contract with DWR is the right to use
12 the SWP to convey water that MWD may acquire from third parties. MWD has also extended the
13 use of this conveyance right to its member agencies. This allows member agencies to avoid
14 payment of charges that DWR would impose on entities that do not have conveyance rights in the
15 SWP system.

16 25. Because DWR separates the water conservation and water transportation
17 functions of the SWP, DWR has "disaggregated" its bills to reflect the distinct nature of the costs
18 incurred for these functions. Indeed, the SWP contracts expressly provide for both a Delta Water
19 Charge to cover the costs associated with SWP conservation facilities and a Transportation Charge
20 to cover the costs associated with SWP conveyance facilities.

21 26. Consistent with the terms of its contract, MWD began making payments
22 toward the capital cost of SWP facilities in 1963. However, Metropolitan did not take any
23 deliveries of SWP water until 1972, by which time it had already paid \$118 million to DWR under
24 the SWP contract.

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MWD's SUPPORT FOR LOCAL WATER RESOURCE PROJECTS

1
2 27. In 1999, the California Legislature enacted Section 130.5 of the MWD Act
3 requiring that MWD expand water conservation, water recycling, and groundwater recovery
4 efforts to increase these elements of the local water supply in its service area.

5 28. When it adopted a new, unbundled rate structure in 2001, MWD included a
6 Water Stewardship Rate that would collect revenues to help fund local water conservation,
7 recycling, and groundwater recovery projects within its service area. The Water Stewardship Rate
8 is collected for each acre-foot of water delivered to all member agencies.

9 29. The revenue collected by the Water Stewardship Rate is used exclusively
10 for projects within MWD's service area. The projects funded by these revenues include water
11 conservation, wastewater recycling, and groundwater recovery projects. The water conservation
12 projects (e.g., efficient toilet subsidies) reduce demands on member agencies, which results in
13 lower demands for imported water into the service area. Wastewater recycling and groundwater
14 recovery programs create local water supplies that member agencies sell to meet their local
15 demands, thus reducing demands for imported water. The resulting benefit to MWD is not a water
16 supply for sale, but the avoidance of new infrastructure that would be needed if demands for
17 imported water supplies were higher. MWD's infrastructure costs are shared among its member
18 agencies through its rates and charges, and therefore, the avoided infrastructure costs benefit all
19 the member agencies.

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Metropolitan Water District of Southern
15 California

16 SUPERIOR COURT OF THE STATE OF CALIFORNIA

17 FOR THE COUNTY OF SAN FRANCISCO

18 SAN DIEGO COUNTY WATER
AUTHORITY,

19 Petitioner and Plaintiff,

20 vs.

21 METROPOLITAN WATER DISTRICT OF
22 SOUTHERN CALIFORNIA; ALL PERSONS
INTERESTED IN THE VALIDITY OF THE
23 RATES ADOPTED BY THE
METROPOLITAN WATER DISTRICT OF
24 SOUTHERN CALIFORNIA ON APRIL 10,
2012 TO BE EFFECTIVE JANUARY 1, 2013
25 AND JANUARY 1, 2014; and DOES 1-10,

26 Respondents and Defendants.

Case No. CPF-10-510830
Case No. CPF-12-512466

**RESPONDENT AND DEFENDANT
METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA'S
DEPOSITION DESIGNATIONS**

Hon. Curtis E.A. Karnow
Dept.: 304

Actions Filed: June 11, 2010; June 8, 2012

Trial Date: March 30, 2015

1 Pursuant to section 2025.620 of the California Code of Civil Procedure, Metropolitan
 2 Water District of Southern California (“MWD”) hereby designates the following excerpts from the
 3 September 6, 2013 deposition of Scott Slater: 31:21-36:18; 44:15-45:21; 56:10-58:3. San Diego
 4 County Water Authority asserted no objections or counter-designations to MWD’s designations of
 5 Mr. Slater’s deposition. Excerpts from the deposition transcript of Mr. Slater are attached as
 6 Exhibit A, wherein MWD’s designations are highlighted in yellow.

7

8 Dated: March 27, 2015

QUINN EMANUEL URQUHART &
SULLIVAN, LLP

9

10

/s/ Eric J. Emanuel

11

By: ERIC J. EMANUEL

12

Attorneys for Respondent and Defendant
METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

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EXHIBIT A

1 SUPERIOR COURT OF THE STATE OF CALIFORNIA

2 FOR THE COUNTY OF SAN FRANCISCO

3

4 SAN DIEGO COUNTY WATER)
 AUTHORITY,)
 5)
 Petitioner and plaintiff,) NO. CPF-10-510830
 6) NO. CPF-12-512466
 VS.)
 7) Volume I
 METROPOLITAN WATER DISTRICT)
 8 OF SOUTHERN CALIFORNIA, ET) Pages 1 - 190
 AL.,)
 9)
 Respondent and defendants.)
 10 _____)

11

12 VIDEOTAPED DEPOSITION OF

13 PERSON MOST KNOWLEDGEABLE OF

14 SAN DIEGO COUNTY WATER AUTHORITY

15 (SCOTT S. SLATER)

16 SEPTEMBER 6, 2013

17

18

19 Reported by:

20 SERENA WONG, CSR# 10250

21 -----

22 JAN BROWN & ASSOCIATES

23 WORLDWIDE DEPOSITION & VIDEOGRAPHY SERVICES

24 701 Battery Street, 3rd Floor, San Francisco, CA 94111

25 (415) 981-3498 or (800) 522-7096

1 time and application of that rate.

2 And -- and that was effectively firm for a
3 five-year period. And then there was a -- a process
4 where that rate would effectively float and be determined
5 by the administrative code in accordance with applicable
6 law.

7 Q Now, about what time frame were these two
8 options under consideration?

9 A This was -- I -- actually it was to --
10 thinking about it this morning, I believe it was the
11 beginning of October, late September, early October 2003.

12 Q And during this time frame, am I correct
13 that that was when the negotiations of the terms of the
14 exchange agreement, 2003 exchange agreement, were going
15 on?

16 A Yes, yes. Yes, the 2003 exchange
17 agreement actually came together in about a week. It was
18 the balance of the QSA that -- and effectively the shift
19 over the approach on the canal lining. In the weeks
20 leading up to it -- yes, it was about a week.

21 Q And to what extent was the adoption of
22 option two, as we've been calling it, reflected in the
23 2003 exchange agreement as it was executed by both
24 parties?

25 A I believe it was.

1 Q In what sense?

2 A In my opinion, the primary points of the
3 contextual agreements that pertained to the canal lining
4 and the balance of the QSA provided that San Diego would
5 be able to move the canal lining water through the
6 exchange agreement, and that is reflected.

7 That the -- the arrangement between
8 Metropolitan San Diego was that that water would move for
9 the life of that agreement. That the pricing schedule
10 that was pertinent under the '98 exchange agreement was
11 removed, and it was replaced with San Diego's agreement
12 to pay a wheeling rate established in accordance with
13 applicable law and the administrative code.

14 Q At least at the outset it was a higher
15 price than was contemplated in the '98 agreement?

16 A Absolutely.

17 Q You still thought it was a good deal?

18 A Absolutely.

19 Q Why?

20 A Okay. I think the -- there are probably
21 -- I'm not going to get into them all. But, first of
22 all, I think the underlying -- the underlying feeling in
23 San Diego in the period of time between '94 and '98, in
24 my opinion, was that there was projected infirmness in
25 the state water supply. And I mean the state as a total.

1 And I think in our capacity as special
2 counsel, I think it was my opinion that the water supply
3 in California was going to become much tighter, much more
4 scarce. That we really hadn't had the beginning of
5 climate change discussions, but there certainly was
6 notions of scarcity.

7 And if you looked at long-term projections
8 on how the Colorado River flows were allocated between
9 upper basin and lower basin and how they had been
10 accounted for, there was a discrepancy in how much water
11 had been originally believed to be apportionable and what
12 actually was physically there.

13 And there was great pressure from the
14 states other than California and the federal government
15 to get California in line with its entitlement, which is
16 actually a 4.4 million acre fee as opposed to the much
17 larger number that it was using during the late '90s.

18 And then we began seeing problems in the
19 Bay Delta around the emergence of an endangered species.
20 In the '90s we learned about the Delta smelt. And the
21 increase of regulatory restrictions and the state
22 project, which had always been sort of a backbone supply
23 for Southern California, looked like it was going to be
24 problematic.

25 And then you had the City of Los Angeles

1 suffering its issues at Owens Valley and rolling back.
2 We had broad contamination issues in Southern California.
3 You had the Baldwin Park cleanup. You had south El Monte
4 cleanup. You had San Fernando being shut down because of
5 contamination. And I think from a -- from an overall
6 perspective that -- finding a reliable water supply to
7 fill out your portfolio was priority one.

8 So in my opinion, doing -- for San Diego
9 to acquire its own supply, and a supply for up to 110
10 years or actually longer, with the canal lining agreement
11 with the extensions, was hugely important and beneficial.
12 And it effectively was the first material supply that San
13 Diego would have it's -- would have at its own disposal.

14 Everything else that it had that was local
15 was relatively nominal, and it was heavily dependent on
16 Metropolitan and the fate of Metropolitan. So if 90
17 percent of your resource or your portfolio was at one
18 supplier, and you don't hedge your risk a little bit,
19 you're asking for trouble, because if Met has trouble,
20 then you're going to have trouble. So I thought the
21 reliability aspect was huge.

22 Secondly, I think they, through the 2003
23 Colorado River delivery agreement, I think our opinion
24 may be different than Metropolitan's about what we --
25 what was achieved through that delivery agreement.

1 But Metropolitan holds a Section 5
2 contract with the United States Bureau of Reclamation.
3 And, personally, I was not in favor of the resolution
4 that was proposed in 2002, which did not include a
5 independent contractual relationship between San Diego
6 and the United States Secretary of Interior. The 2003
7 version of the QSA did.

8 And San Diego received what I would --
9 what I've characterized as a surrogate for a Section 5
10 contract. It has an independently specifically
11 enforceable right against the United States government to
12 require the deliveries be made pursuant to that
13 agreement. So I felt that was important.

14 I felt that the bricks and mortar
15 associated with the canal lining project and the
16 investment that would be made by San Diego into actually
17 owning physical facilities as opposed to relying on a
18 transfer from a third party with respect to Imperial was
19 really important.

20 And that to be able to make that
21 investment and to be able to carry forward for 100 years
22 was a different character of asset than relying on a
23 third party to comply with a transfer arrangement.

24 I think when we undertook the arrangement
25 in 2003, we also believe that a shortage uncertainty,

1 rate uncertainty, let's just say having a firm agreement
2 in an area of otherwise destabilized economics, not
3 knowing where the water place was going created some
4 advantages as well. And there are others, but those are
5 -- leap to the front.

6 Q As you still here today, do you still
7 think it was a good deal?

8 A Absolutely.

9 Q For the same reasons?

10 A Yeah. I think we couldn't have been any
11 more right. When you look at the BDCP process and what
12 it's projected for losses to the state project in the
13 event that the twin tunnels don't go through, I mean,
14 it's catastrophic. You're looking at 35 to 40 percent
15 reductions in the state project deliveries to Met. I
16 can't imagine anyone not wanting to hedge their portfolio
17 given the political difficulties and -- I mean, that's a
18 catastrophe.

19 Q Let's talk about the price provision for a
20 second.

21 A Yeah.

22 Q In the '98 agreement, there was a price
23 provision, roughly 90 something bucks.

24 A Yeah, uh-huh.

25 Q The 2003 agreement, there was a price

1 Q On how many occasions?

2 A Probably a dozen.

3 Q Have you ever been an expert witness?

4 A A dozen times.

5 Q That's the only times?

6 A Correct.

7 Q Got it. Now, I want to talk a little bit
8 more about your communications with the Board.

9 A Okay.

10 Q Did -- to your understanding, did people
11 involved in the negotiation on San Diego's side, did they
12 report to the Board regularly regarding this -- the
13 progress at these negotiations?

14 A I believe they did, as well as me.

15 Q So you reported to the Board?

16 A I did.

17 Q What form would those reports take?

18 A There would be direct meetings, telephone
19 conferences with Board members who had been assigned to a
20 negotiating committee, as well as appearances in front of
21 the entire Board.

22 Q I don't want to go into the substance of
23 the closed session, but did you ever report to the Board
24 in closed session regarding the progress of the
25 negotiations?

1 A I did.

2 Q On how many occasions?

3 A Dozens.

4 Q With regard to this -- the negotiation of
5 the 2003 agreement?

6 A Sorry. With regard to the negotiations to
7 implement the transfer agreement.

8 Q Uh-huh.

9 A On the -- on the 2003 exchange agreement,
10 my recollection is that there may have been -- there
11 certainly was one lengthy closed session. There may have
12 been another closed session, and then there were
13 opportunities for, I think, virtually every board member
14 to participate in those -- in the committee meeting --
15 sorry -- in the closed session.

16 And then -- and my recollection is that
17 each of the members of the subcommittee had an
18 opportunity to be briefed on the -- the workings.

19 Q And ultimately the Board approved the
20 exchange agreement?

21 A They did.

22 Q How long before its execution was such
23 approval obtained?

24 A I don't recall.

25 Q Refresh your recollection, does it sound

1 And my recollection is that there were
2 other minor -- sorry -- less significant changes. The
3 potential of accommodating within the exchange agreement,
4 PVID water that would be assigned to San Diego, these
5 things would have to be reflected in the exchange
6 agreement.

7 But we didn't sit down and draft those
8 other than in outline form because we needed for the
9 process to become still.

10 Q And, ultimately, at some point -- so at
11 some point -- do you recall the time frame it was decided
12 to make the 2003 agreement a standalone agreement as
13 opposed to an amendment to the '98 agreement?

14 A Yes.

15 Q When?

16 A It was within the two-week period at the
17 end of September, beginning of October. There was a
18 meeting in the governor's office -- sorry. We were out
19 of room in the governor's office. We were in the rolling
20 blackouts, so there was no air conditioning. So they
21 moved us to a new -- to another building.

22 And we were sitting in the building. And
23 I remember walking outside of the building and talking to
24 Dennis Underwood and proposed the canal swap, and then it
25 was on. And we spent the evenings around the balance of

1 the negotiations -- so we'd have 20 people in the room
2 negotiating.

3 And in the evenings, the two -- it would
4 be some combination of Jeff going to his negotiating
5 committee, or Dennis and Jeff collaborating, and me
6 working with Maureen to see if we could move what you're
7 referencing to -- referencing as option two, to see if we
8 could bring that to clarification as to what it was going
9 to look like. And that was about 7 to 14 days.

10 Q Now, you refer -- for the record, Dennis
11 Underwood is who?

12 A Dennis Underwood, I believe, was the
13 former commissioner of the United States Bureau of
14 Reclamation. And then he came to work at Metropolitan,
15 and he was in charge of the Colorado River program, and
16 then ultimately became the general manager of Met before
17 he died of cancer. A wonderful man.

18 Q At the time of -- when you had the
19 conversation with him when, quote, "it was on," he was
20 working for Met at the time?

21 A Absolutely.

22 Q So you proposed the canal lining option?

23 A I did.

24 Q Which was pretty much option two?

25 A Correct.

1 Q And then negotiations moved forward from
2 there?

3 A Correct.

4 Q I'm going to show you -- I'll show you
5 this real quick. This won't take long. I'm going to ask
6 you to keep Exhibit 2 handy. The exchange agreement.

7 A Okay.

8 Q We'll talk about it a lot. We'll come
9 back to it a few times.

10 A Okay.

11 Q I'll ask the court reporter to mark this
12 as Exhibit 3.

13 (Exhibit 3 was marked.)

14 Q BY MR. WEST: Let the record reflect I've
15 shown the witness an exhibit marked as Exhibit 3. It is
16 an e-mail dated December 9, 2002 from -- I believe that's
17 Carl Caseman; right?

18 A Uh-huh, sure.

19 Q To Jim Taylor and yourself, cc'ing a bunch
20 of other people. The Bates numbers MWD 2010-00272378,
21 and it goes on from there.

22 I take it you've seen this document
23 before?

24 A Well, it's addressed to me, and the time
25 period was chaotic.

1 STATE OF CALIFORNIA)

2)

3 COUNTY OF LOS ANGELES)

4

5

6 DECLARATION UNDER PENALTY OF PERJURY

7

8

9 I do hereby certify under penalty of perjury that I
10 have reviewed the foregoing transcript of my deposition;
11 that I have made such corrections as appear noted herein
12 in ink; that my testimony contained herein, as corrected;
13 is true and correct.

14

15 DATED this _____ day of _____, 2013,

16 at _____, California.

17

18

19

20

21

22 _____
Scott S. Slater

23

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1 STATE OF CALIFORNIA)

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3 COUNTY OF LOS ANGELES)

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6

REPORTER'S CERTIFICATION

7

8

I, Serena Wong, Certified Shorthand Reporter in
and for the State of California, do hereby certify:

9

10

That the foregoing witness was by me duly sworn;

11

That the proceedings were then taken before me
at the time and place herein set forth;

12

13

That the testimony and proceedings were reported
stenographically by me and later transcribed into
typewriting under my direction;

14

15

16

That the foregoing is a true record of the
testimony and proceedings taken at that time.

17

18

19

IN WITNESS WHEREOF, I have subscribed my name on
this date: 9/17/13

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Serena Wong, CSR No. 10250

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PROOF OF SERVICE

I am employed in the County of Los Angeles, State of California. I am over the age of eighteen years and not a party to the within action; my business address is 865 South Figueroa Street, 10th Floor, Los Angeles, California 90017-2543.

On March 27, 2015, I served true copies of the following document(s) described as

RESPONDENT AND DEFENDANT METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA'S DEPOSITION DESIGNATIONS

on the interested parties in this action as follows:

SEE ATTACHED LIST

BY FILE & SERVEXPRESS: by causing a true and correct copy of the documents(s) listed above to be sent via electronic transmission through File & ServeXpress to the person(s) at the address(es) set forth below.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on March 27, 2015, at Los Angeles, California.


Pamela S. Davis

SERVICE LIST1
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Counsel for Utility Consumers' Action Network

San Diego County Water Authority
Weekly Operations Plan for the Week Beginning August 13, 2012

For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality					
<u>Untreated</u>	<u>SWP Blend (%)</u>	<u>MIB (ng/L)</u>	<u>Geosmin (ng/L)</u>	<u>\O Gate</u>	<u>Comments</u>
Skinner	55%	2	2	1&2	407 TDS (Secondary MCL is 500 mg/l)
Canal	55%	3	3	NA	
Olivenhain	NA	NA	NA	NA	
	<u>Skinner</u>	<u>Canal</u>			
P3 Supply:	100%	0%	N/A		
P5 Supply:	100%	0%	N/A		

<u>Treated</u>	<u>Flow (CFS)</u>	<u>Temp (C°)</u>	<u>Flow/Temp Tier</u>	<u>NCP Table 1 Action Level</u>	<u>Flushing at Hubbard</u>	<u>Flushing at Otay 13SR</u>
MWD SD-07 - PPL 4	75	24°	None	Action Level 2	3cfs	8cfs

**Nitrification Plan closely monitored when water temps rise above 16°C.*

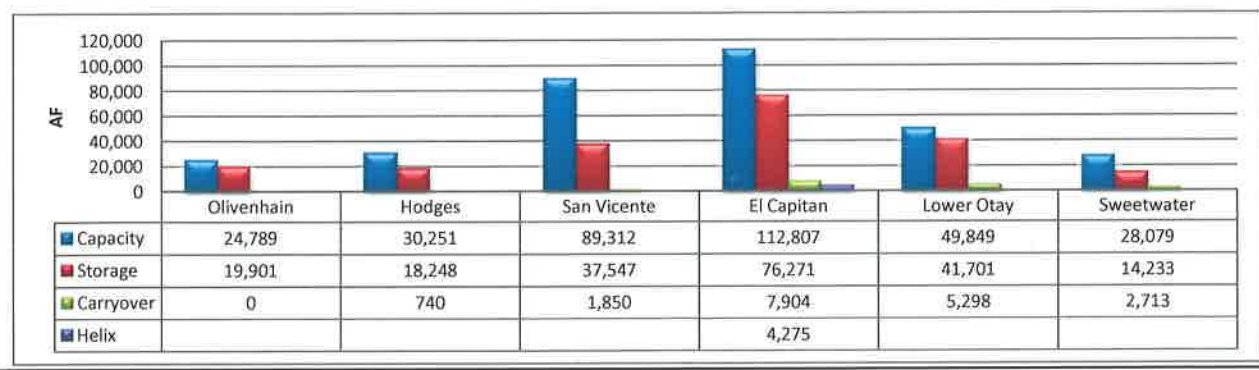
Nitrification Control Plan Comments: Stop logs placed at 1st Aq Oat Hill tunnel downstream bifurcation to increase velocity; Coordinated increase of chloramines residual and pH levels; Adjusted TOVWTP blend ratio into the AQ; Decreased detention times in distribution system; Increased sampling of constituents.

Imported Water Tracking			
FY 2011			
	<u>Total Purchased</u>	<u>Total Delivered</u>	<u>Total Used</u>
DWR Transfers	0	0	0

[No water transfers planned for calendar year 2012.](#)

Water Authority Storage (AF) August 6, 2012							
	<u>Capacity</u>	<u>Storage</u>	<u>% Storage</u>	<u>Spill EL</u>	<u>EL</u>	<u>Carryover</u>	<u>Helix</u>
Olivenhain	24,789	19,901	80%	1080.5	1,054.5	0	
Hodges	30,251	18,248	60%	315.0	302.1	740	
San Vicente	89,312	37,547	42%	659.0	592.8	1,850	
El Capitan	112,807	76,271	68%	770.0	723.7	7,904	4,275
Lower Otay	49,849	41,701	84%	492.0	479.2	5,298	
Sweetwater	28,079	14,233	51%	241.0	221.7	2,713	
	335,087	207,901	62%			18,505	4,275

Comments:
 Completed paper transfer of water from Olivenhain to San Vicente Reservoir.

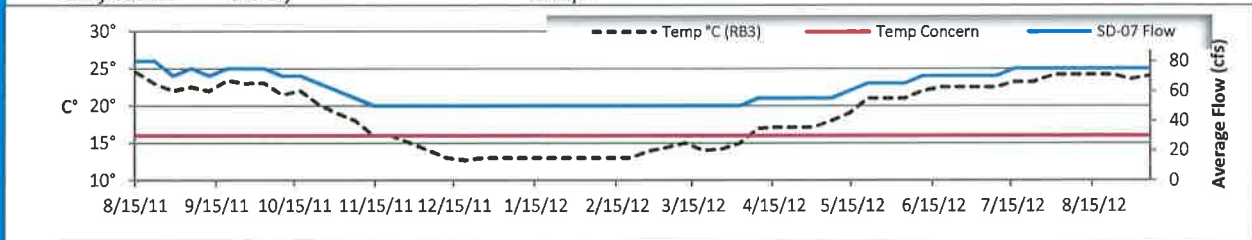


San Diego County Water Authority
Weekly Operations Plan for the Week Beginning September 24, 2012
 For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality					
<u>Untreated</u>	<u>SWP Blend (%)</u>	<u>MIB (ng/L)</u>	<u>Geosmin (ng/L)</u>	<u>I/O Gate</u>	<u>Comments</u>
Skinner Canal	57%	9	6	1&2	382 TDS (Secondary MCL is 500 mg/l)
Olivenhain	57%	2	1	NA	
	NA	NA	NA	NA	
	<u>Skinner</u>	<u>Canal</u>			
P3 Supply:	75%	25%	N/A	Transition off of bypass starting Monday 24th	
P5 Supply:	75%	25%	N/A		

<u>Treated</u>	<u>Flow (CFS)</u>	<u>Temp (C°)</u>	<u>Flow/Temp Tier:</u>	<u>NCP Table 1 Action Level:</u>	<u>Flushing at Hubbard</u>	<u>Flushing at Otay 13SR</u>
MWD SD-07 - PPL 4	65	24°	None	Action Level 2	2 cfs	10 cfs

*Nitrification Plan closely monitored when water temps rise above 16°C.



Nitrification Control Plan Comments: Stop logs placed at 1st Aq Oat Hill tunnel downstream bifurcation to increase velocity; Coordinated increase of chloramines residual and pH levels; Adjusted TOVWTP blend ratio into the AQ; Decreased detention times in distribution system; Increased sampling of constituents.

Imported Water Tracking

FY 2013

	<u>Total Purchased</u>	<u>Total Delivered</u>	<u>Total Used</u>
DWR Transfers	0	0	0

No water transfers planned for calendar year 2012.

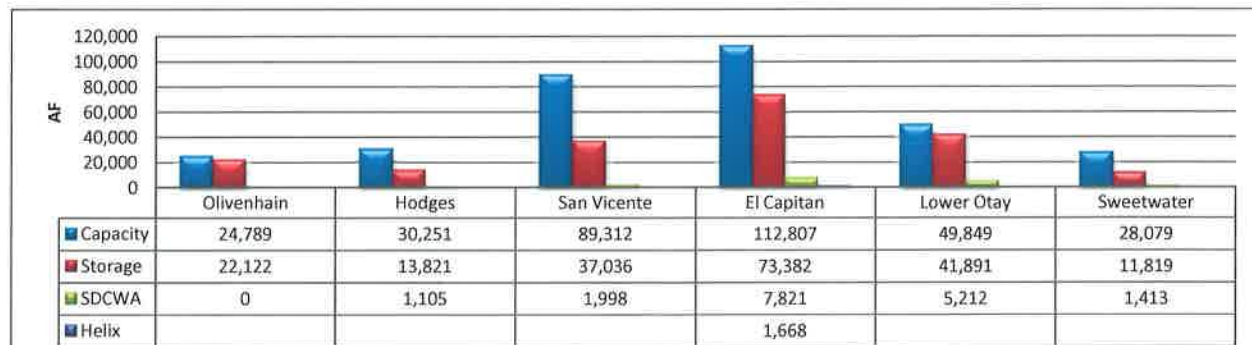
Water Authority Storage (AF) September 17, 2012

	<u>Capacity</u>	<u>Storage</u>	<u>% Storage</u>	<u>Spill EL</u>	<u>EL</u>	<u>SDCWA</u>	<u>Helix</u>	<u>City</u>
Olivenhain	24,789	22,122	89%	1080.5	1,066.9	0		
Hodges	30,251	13,821	46%	315.0	295.9	1,105		
San Vicente	89,312	37,036	41%	659.0	592.2	1,998		
El Capitan	112,807	73,382	65%	770.0	721.4	7,821	1,668	
Lower Otay	49,849	41,891	84%	492.0	479.5	5,212		
Sweetwater	28,079	11,819	42%	241.0	217.5	1,413		
Total	335,087	200,071	60%			17,549	1,668	

Comments:

CIP Testing/Commissioning water for Lake Hodges at net zero balance

Preparing tentative schedule for drafting of City of San Diego's 9800AF from Lake Hodges thru Olivenhain reservoir starting 9/17

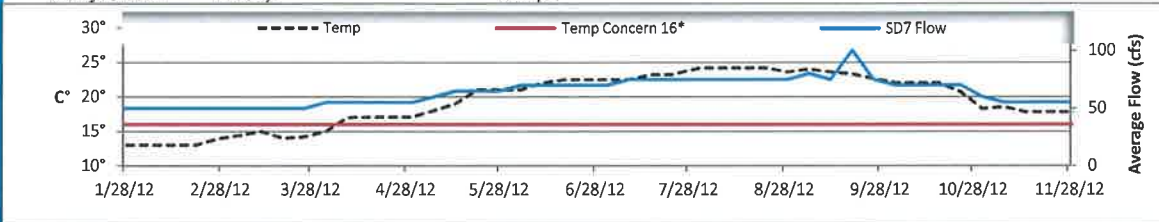


San Diego County Water Authority
Weekly Operations Plan For the Week Beginning December 10, 2012
 For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality					
<u>Untreated</u>	<u>SWP Blend</u>	<u>MIB</u>	<u>Geosmin</u>	<u>\O Gate</u>	<u>Comments</u>
	(%):	(ng/L):	(ng/L):		
Skinner	78%	4	2	1&2	343 TDS (Secondary MCL is 500 mg/l)
Canal	78%	ND	ND	NA	
Olivenhain	NA	NA	NA	NA	
	Skinner	Canal			
P3 Supply:	100%	0%	N/A		
P5 Supply:	100%	0%	N/A		

<u>Treated</u>	<u>Flow (CFS):</u>	<u>Temp (C°):</u>	<u>Flow/Temp</u>	<u>NCP Table 1 Action Level:</u>	<u>Flushing at</u>	<u>Flushing at</u>
			<u>Tier:</u>		<u>Hubbard</u>	<u>Otay 13SR</u>
MWD SD-07 - PPL 4	55	18°	None	Action Level 1	0 cfs	4 cfs

*Nitrification Plan closely monitored when water temps rise above 16°C.



Nitrification Control Plan Comments: Stop logs placed at 1st Aq Oat Hill tunnel downstream bifurcation to increase velocity; Coordinated increase of chloramines residual and pH levels; Adjusted TOVWTP blend ratio into the AQ; Decreased detention times in distribution system; Increased sampling of constituents.

Imported Water Tracking

FY 2013

	<u>Total Purchased</u>	<u>Total Delivered</u>	<u>Total Used</u>
DWR Transfers	0	0	0

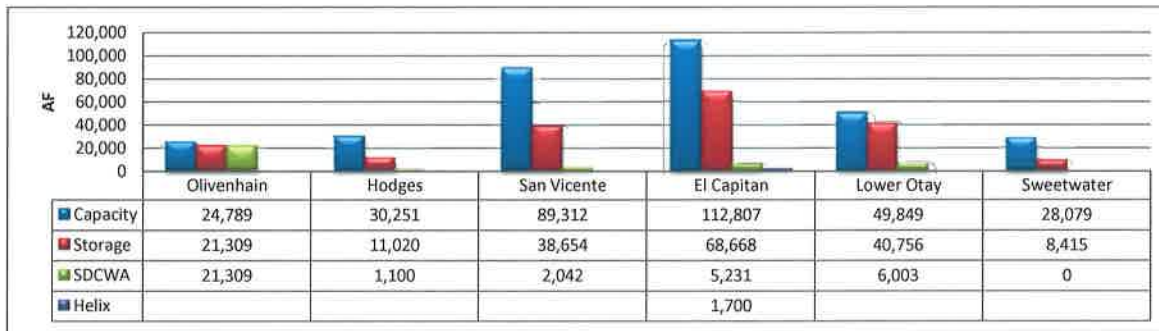
No water transfers planned for calendar year 2012.

Water Authority Storage (AF) December 3, 2012

	<u>Capacity</u>	<u>Storage</u>	<u>% Storage</u>	<u>Spill EL</u>	<u>EL</u>	<u>SDCWA</u>	<u>Helix</u>	<u>City</u>
Olivenhain	24,789	21,309	87%	1080.5	1,062.5	21,309		0
Hodges	30,251	11,020	40%	315.0	291.2	1,100		
San Vicente	89,312	38,654	43%	659.0	594.4	2,042		
El Capitan	112,807	68,668	64%	770.0	717.3	5,231	1,700	
Lower Otay	49,849	40,756	83%	492.0	478.2	6,003		
Sweetwater	28,079	8,415	36%	241.0	210.5	0		
TOTAL	335,087	188,821	56%			35,685	1,700	

Comments:

OLIV Res EVAP SEEPAGE-monthly November 44.4 AF ; FY 417.4 AF
 Lake Hodges Turnover Event 11/13/2012



San Diego County Water Authority
Weekly Operations Plan For the Week Beginning March 25, 2013

For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality

Untreated	SWP Blend (%)	MIB (ng/L)	Geosmin (ng/L)	I/O Gate	Comments
Skinner	63%	ND	1.00	1&2	396 TDS (Secondary MCL is 500 mg/l)
Canal	63%	ND	ND	NA	
Olivenhain	NA	ND	ND	NA	
	Skinner	Canal			
P3 Supply:	100%	0%	N/A		
P5 Supply:	100%	0%	N/A		

Treated	Flow (CFS)	Temp (C°)	Flow/Temp Tier:	NCP Table 1 Action Level:	Flushing at Hubbard	Flushing at Otay 13SR
MWD SD-07 - PPL 4	50	17°	None	Not Reached	0 cfs	0cfs

**Nitrification Plan closely monitored when water temps rise above 16°C.*

Nitrification Control Plan Comments:

Imported Water Tracking

FY 2013

	Total Purchased	Total Delivered	Total Used
DWR Transfers	0	0	0

No water transfers planned for calendar year 2012.

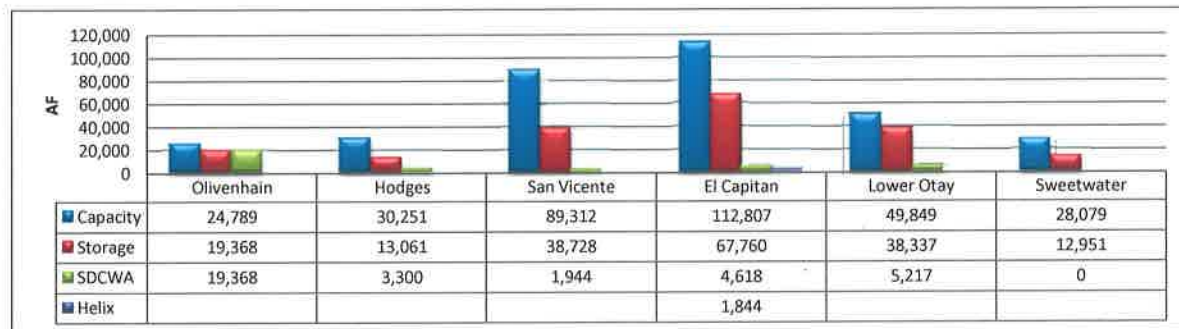
Water Authority Storage (AF) March 18, 2013

	Capacity	Storage	% Storage	Spill EL	EL	SDCWA	Helix	City
Olivenhain	24,789	19,368	78%	1080.5	1,051.4	19,368		
Hodges	30,251	13,061	43%	315.0	294.7	3,300		
San Vicente	89,312	38,728	43%	659.0	594.5	1,944		
El Capitan	112,807	67,760	60%	770.0	716.5	4,618	1,844	
Lower Otay	49,849	38,337	77%	492.0	475.6	5,217		
Sweetwater	28,079	12,951	46%	241.0	219.5	0		
	335,087	190,205	57%			34,447	1,844	

Comments:

OLIV Res EVAP SEEPAGE- FY 497.3 AF

Confirmed 2776 AF paper transfer for Hodges. Otay will update values at end of the month.

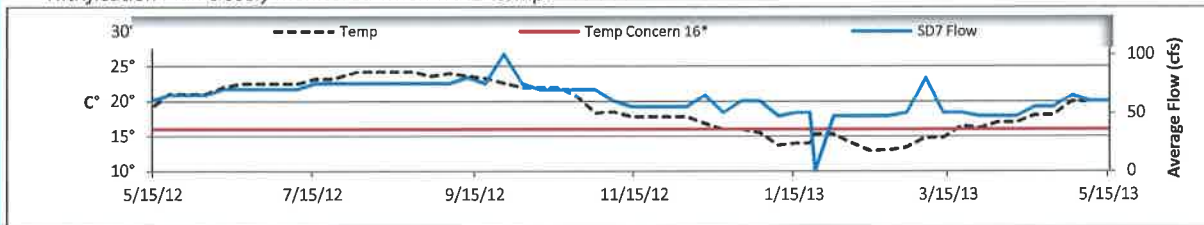


San Diego County Water Authority
Weekly Operations Plan For the Week Beginning May 27, 2013
 For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality					
<u>Untreated</u>	<u>SWP Blend</u>	<u>MIB</u>	<u>Geosmin</u>	<u>I/O Gate</u>	<u>Comments</u>
	(%):	(ng/L):	(ng/L):		
Skinner Canal	15%	ND	3	1&2	528 TDS (Secondary MCL is 500 mg/l(RAA397))
Olivenhain	15%	ND	3	NA	
	NA	ND	ND	NA	
	Skinner	Canal			Expect final 3months to be 100% CRA
P3 Supply:	100%	0%	N/A		
P5 Supply:	100%	0%	N/A		

<u>Treated</u>	<u>Flow (CFS):</u>	<u>Temp (C°):</u>	<u>Flow/Temp</u>	<u>NCP Table 1 Action Level:</u>	<u>Flushing at</u>	<u>Flushing at</u>
			<u>Tier:</u>		<u>Hubbard</u>	<u>Otay 13SR</u>
MWD SD-07 - PPL 4	70	21°	None	Not Reached	0 cfs	0cfs

*Nitrification Plan closely monitored when water temps rise above 16°C.



Nitrification Control Plan Comments: Increase target PH level. Isolate 1 basin @ MTFRS
 Increase sampling frequency, Follow flow/temp ratio, Reduce FRS detention times, Switch FCFs to PPL3 to reduce detention time
 Stop logs installed on Pipeline 1 of 1st aqueduct

Imported Water Tracking

FY 2013

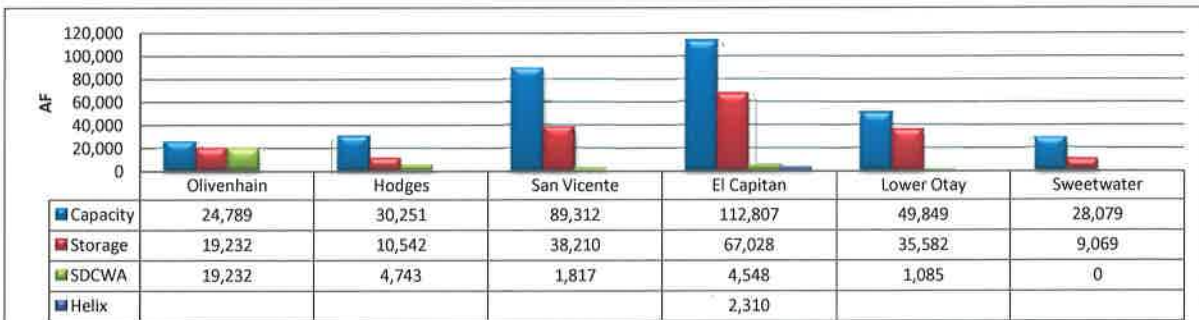
	<u>Total Purchased</u>	<u>Total Delivered</u>	<u>Total Used</u>
DWR Transfers	0	0	0

No water transfers planned for calendar year 2013.

Water Authority Storage (AF) May 20, 2013

	<u>Capacity</u>	<u>Storage</u>	<u>% Storage</u>	<u>Spill EL</u>	<u>EL</u>	<u>SDCWA</u>	<u>Helix</u>	<u>City</u>
Olivenhain	24,789	19,232	78%	1080.5	1,050.7	19,232		0
Hodges	30,251	10,542	43%	315.0	290.3	4,743		
San Vicente	89,312	38,210	43%	659.0	593.8	1,817		
El Capitan	112,807	67,028	60%	770.0	715.9	4,548	2,310	
Lower Otay	49,849	35,582	77%	492.0	472.6	1,085		
Sweetwater	28,079	9,069	46%	241.0	214.1	0		
	335,087	179,662	54%			31,425	2,310	

Comments:



San Diego County Water Authority
Weekly Operations Plan For the Week Beginning June 24, 2013

For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality								
Untreated	SWP Blend (%)	MIB (ng/L)	Geosmin (ng/L)	I/O Gate	Comments			
Skinner Canal	23%	ND	159	1&2	516TDS (Secondary MCL is 500 mg/(RAA397))			
Olivenhain	23%	ND	3	NA				
	NA	ND	ND	NA	Monthly Source water sampling 11th			
	Skinner	Canal			Expect final 3months to be 100% CRA			
P3 Supply:	25%	75%	N/A		Skinner Lake CS treatment week of June 17th			
P5 Supply:	25%	75%	N/A					
Treated	Flow (CFS)	Temp (C°)	Flow/Temp Tier:	NCP Table 1 Action Level:	Flushing at Hubbard	Flushing at Otay 13SR		
MWD SD-07 - PPL 4	80	25°	None	Not Reached	0 cfs	5 cfs		
<i>*Nitrification Plan closely monitored when water temps rise above 16°C.</i>								
Nitrification Control Plan Comments: Increase target PH level, Isolate 1 basin @ MFRS Increase sampling frequency, Follow flow/temp ratio, Reduce FRS detention times, Switch FCFs to PPL3 to reduce detention time Stop logs installed on Pipeline 1 of 1st aqueduct; Additional coordination w/Otay by flushing 5cfs during no flow on #13								
Imported Water Tracking								
FY 2013								
	Total Purchased	Total Delivered	Total Used					
DWR Transfers	0	0	0					
No water transfers planned for calendar year 2013.								
Water Authority Storage (AF)								
	Capacity	Storage	% Storage	Spill EL	EL	SDCWA	Helix	City
Olivenhain	24,789	19,232	78%	1080.5	1,050.7	19,232		0
Hodges	30,251	10,882	43%	315.0	291.0	4,573		
San Vicente	89,312	37,878	43%	659.0	593.3	1,731		
El Capitan	112,807	65,138	60%	770.0	714.2	4,513	2,314	
Lower Otay	49,849	35,361	77%	492.0	472.3	686		
Sweetwater	28,079	8,456	46%	241.0	210.7	0		
	335,087	176,946	53%			30,734	2,314	
Comments:								

San Diego County Water Authority
Weekly Operations Plan For the Week Beginning August 5, 2013

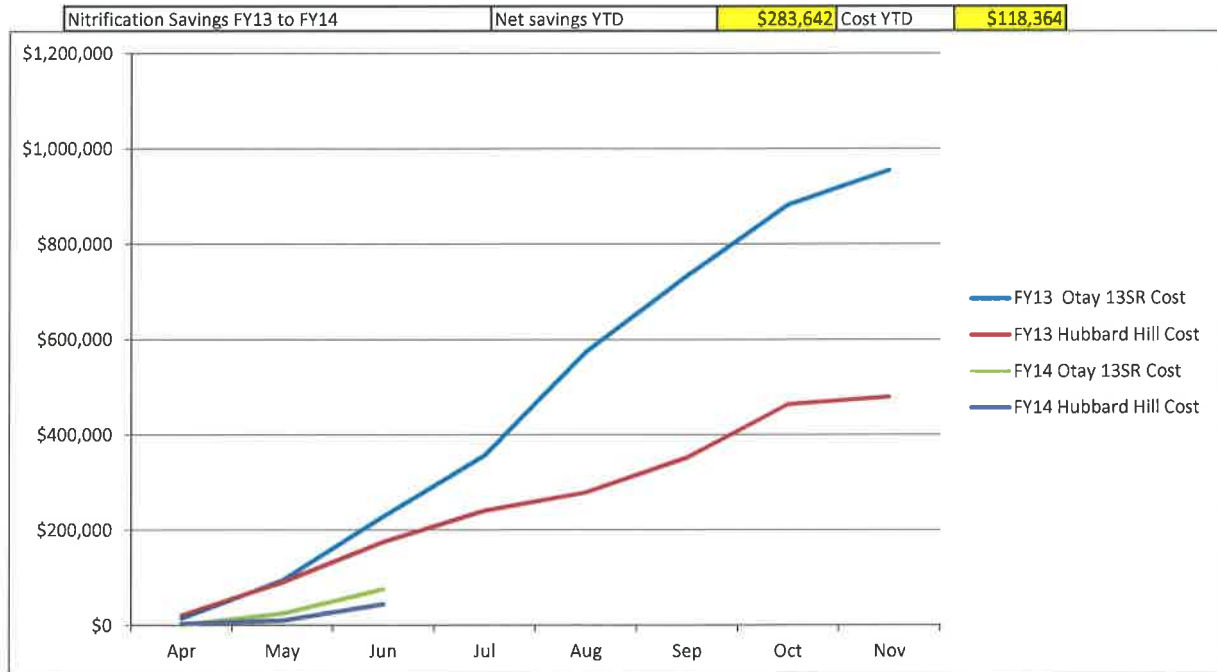
For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality						
Untreated	SWP Blend (%)	MIB (ng/L)	Geosmin (ng/L)	I/O Gate	Comments	
Skinner	18%	5	4	1&2	526TDS (Secondary MCL is 500 mg/l(RAA403))	
Canal	18%	3	4	NA		
Olivenhain	NA	ND	8.34	NA		
	<u>Skinner</u>	<u>Canal</u>			Expect final 3months to be 100% CRA	
P3 Supply:	100%	0%	N/A			
P5 Supply:	100%	0%	N/A			

Treated	Flow (CFS)	Temp (C°)	Flow/Temp Tier:	NCP Table 1 Action Level:	Flushing at Hubbard	Flushing at Otay 13SR
MWD SD-07 - PPL4	90	27°	None	Action Level 1	5 cfs	5 cfs

**Nitrification Plan closely monitored when water temps rise above 16°C.*

Nitrification Control Plan Comments: Increase target PH level, Isolate 1 basin @ MFRS
 Increase sampling frequency, Follow flow/temp ratio, Reduce FRS detention times, Switch FCFs to PPL3 to reduce detention time
 Stop logs installed on Pipeline 1 of 1st aqueduct.



San Diego County Water Authority

Weekly Operations Plan for the Week Beginning July 28, 2014

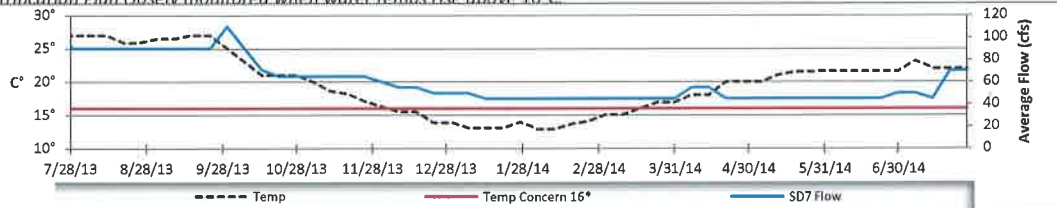
For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality

Untreated	SWP Blend (%)	MIB (ng/L)	Geosmin (ng/L)	\O Gate	Comments
Skinner	54%	ND	ND	1&2	415 TDS (Secondary MCL is 500 mg/l(RAA533))
Canal	54%	ND	ND	NA	
Olivenhain	NA	ND	ND	NA	
	Skinner	Canal			
P3 Supply:	100%	0%	N/A		
P5 Supply:	100%	0%	N/A		

Treated	Flow (CFS)	Temp (C°)	Flow/Temp Tier:	NCP Table 1 Action Level:	Flushing at Hubbard	Flushing at Otay 13SR
MWD SD-07 - PPL 4	70	22°	None	Not Reached	0	0

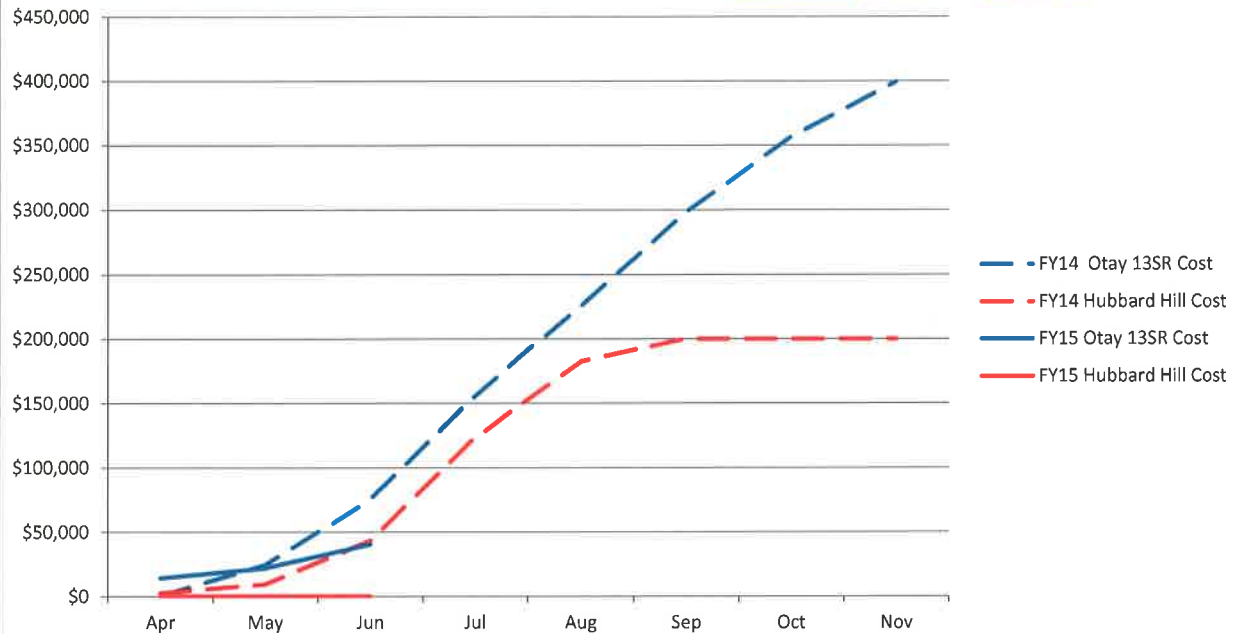
*Nitrification Plan closely monitored when water temps rise above 16°C.



Nitrification Control Plan Comments:

Installed stop logs on 1st aqueduct. Operating MTFRS on one basin. Increased sampling frequency
Twin oaks targets for PH and residual increased.
Intermittent flushing of Otay 13SR expected due to residual decay and increased nitrites

Nitrification Savings FY14 to FY15	Net savings YTD	\$78,257	Cost YTD	\$40,107
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San Diego County Water Authority
Weekly Operations Plan For the Week Beginning August 25, 2014

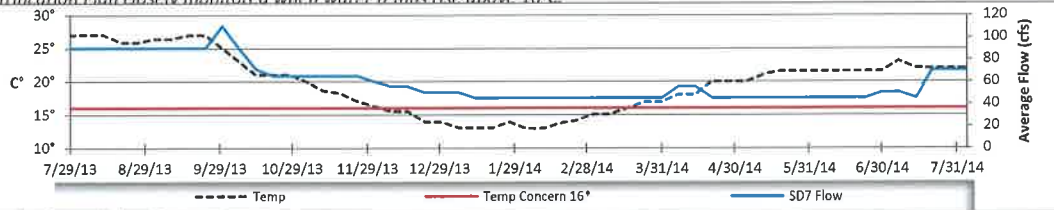
For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality

Untreated	SWP Blend (%)	MIB (ng/L)	Geosmin (ng/L)	\O Gate	Comments
Skinner	42%	3	4	1&2	404 TDS (Secondary MCL is 500 mg/l/(RAA535))
Canal	42%	ND	ND	NA	
Olivenhain	NA	3	4	NA	
	Skinner	Canal			
P3 Supply:	100%	0%	N/A		
P5 Supply:	100%	0%	N/A		

Treated	Flow (CFS)	Temp (C°)	Flow/Temp Tier:	NCP Table 1 Action Level:	Flushing at Hubbard	Flushing at Otay 13SR
MWD SD-07 - PPL 4	75	24°	Tier 1	Action Level 1	0	5

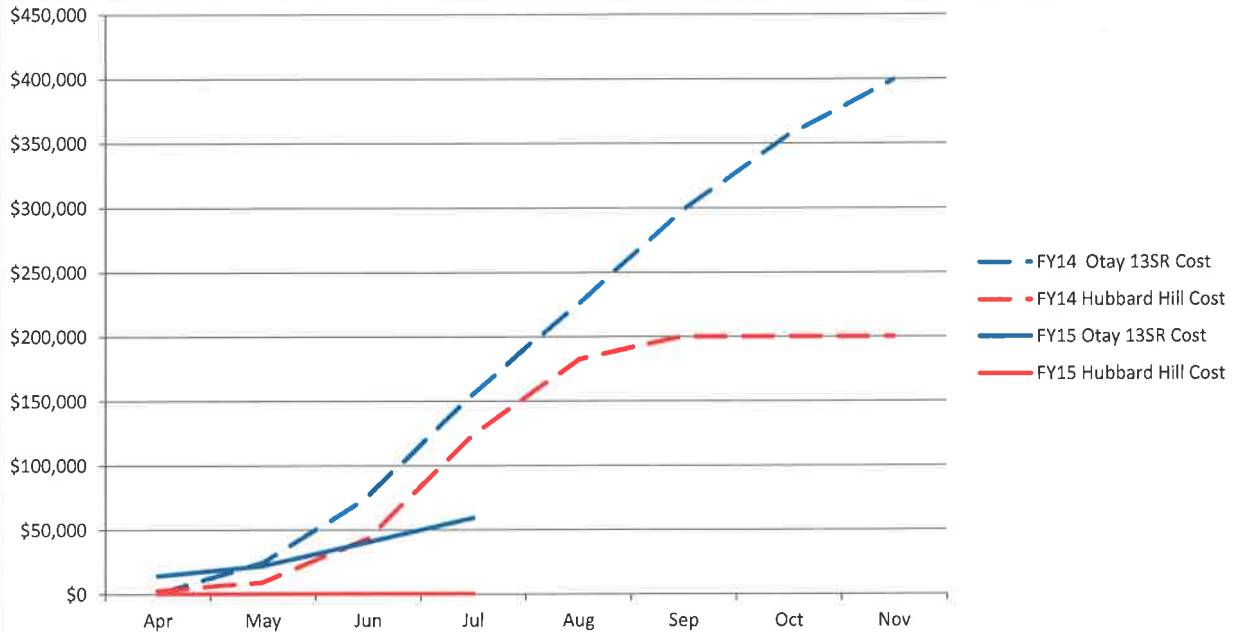
*Nitrification Plan closely monitored when water temps rise above 16°C.



Nitrification Control Plan Comments:

Installed stop logs on 1st aqueduct. Operating MTRFS on one basin. Increased sampling frequency
 Twin oaks targets for PH and residual increased.
 Intermittent flushing of Otay 13SR expected due to residual decay and increased nitrites

Nitrification Savings FY14 to FY15	Net savings YTD	\$220,330	Cost YTD	\$58,649
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San Diego County Water Authority
Weekly Operations Plan For the Week Beginning October 6, 2014

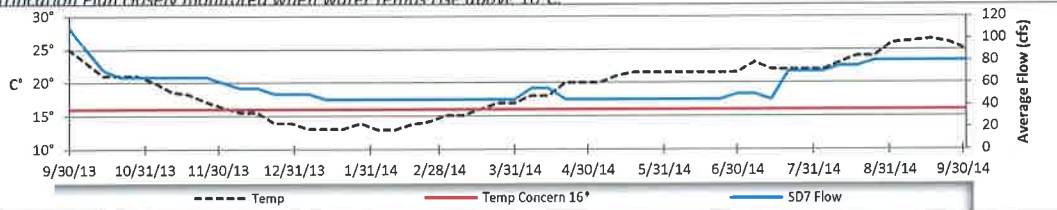
For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality

Untreated	SWP Blend (%)	MIB (ng/L)	Geosmin (ng/L)	I/O Gate	Comments
Skinner	29%	10	7	1&2	528 TDS (Secondary MCL is 500 mg/l/(RAA535))
Canal	29%	ND	ND	NA	
Olivenhain	NA	6	9	NA	
	Skinner	Canal			
P3 Supply:	100%	0%	N/A		
P5 Supply:	100%	0%	N/A		

Treated	Flow (CFS)	Temp (C°)	Flow/Temp Tier	NCP Table 1 Action Level:	Flushing at Hubbard	Flushing at Otay 13SR
MWD SD-07 - PPL 4	80	25°	None	Action Level 1	0	0

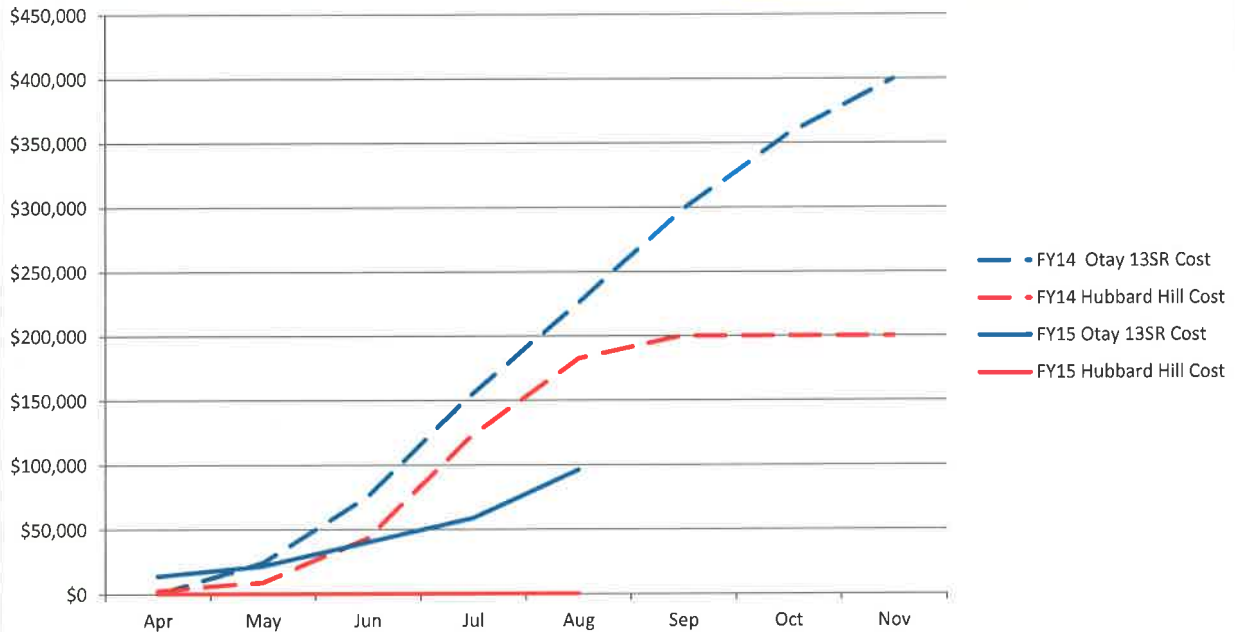
**Nitrification Plan closely monitored when water temps rise above 16°C.*



Nitrification Control Plan Comments:

Installed stop logs on 1st aqueduct. Operating MTRFS on one basin. Increased sampling frequency
 Twin oaks targets for PH and residual increased.
 Intermittent flushing of Otay 13SR expected due to residual decay and increased nitrites

Nitrification Savings FY14 to FY15	Net savings YTD	\$312,174	Cost YTD	\$95,890
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San Diego County Water Authority

Weekly Operations Plan For the Week Beginning November 24, 2014

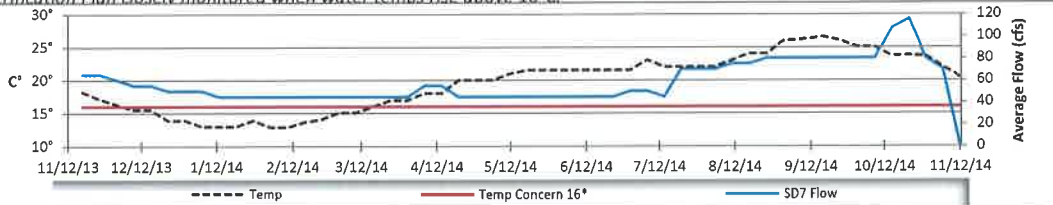
For additional information or questions, please contact Chris Castaing, 760-484-6307

Water Quality

Untreated	SWP Blend (%)	MIB (ng/L)	Geosmin (ng/L)	I/O Gate	Comments
Skinner Canal	2%	6	5	1&2	588 TDS (Secondary MCL is 500 mg/l(RAA535))
Olivenhain	2%	ND	ND	NA	
	NA	11	16	NA	
	Skinner	Canal			
P3 Supply:	100%	0%	N/A		
P5 Supply:	100%	0%	N/A		

Treated	Flow (CFS)	Temp (C°)	Flow/Temp Tier	NCP Table 1 Action Level:	Flushing at Hubbard	Flushing at Otay 13SR
MWD SD-07 - PPL 4	0	20°	None	Action Level 1	0	5

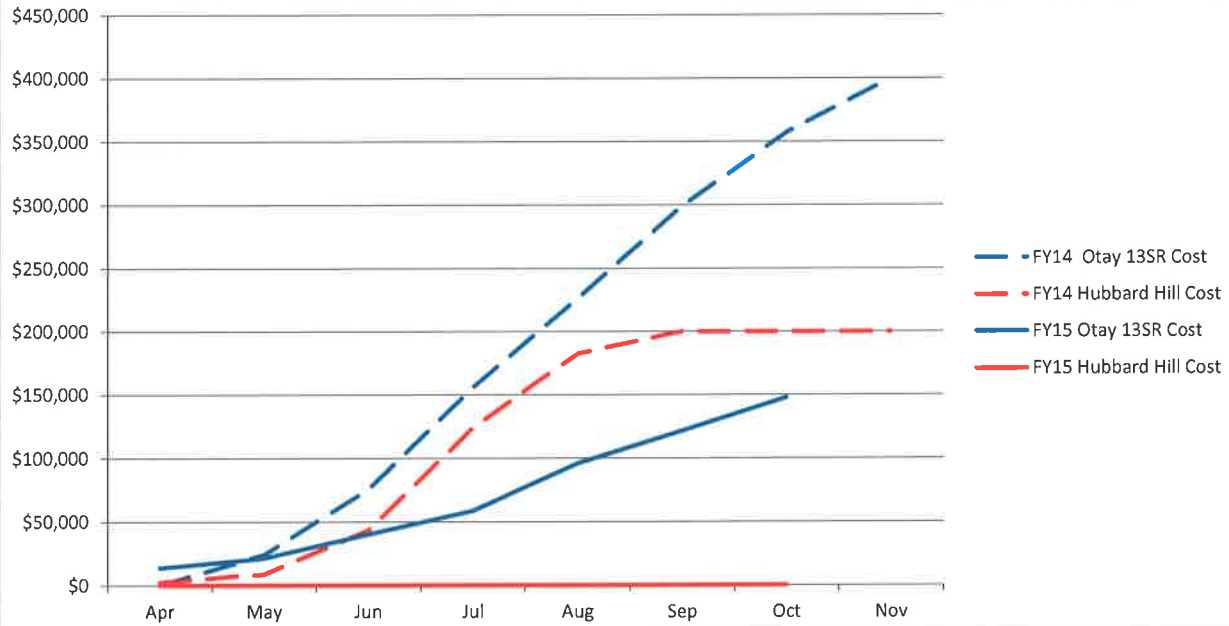
*Nitrification Plan closely monitored when water temps rise above 16°C.



Nitrification Control Plan Comments:

Installed stop logs on 1st aqueduct. Operating MTRFS on one basin. Increased sampling frequency
Twin oaks targets for PH and residual increased.
Intermittent flushing of Otay 13SR expected due to residual decay and increased nitrites

Nitrification Savings FY14 to FY15	Net savings YTD	\$408,923	Cost YTD	\$147,452
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Monthly SDCWA Water Deliveries

Average Blend, % SWP (Estimated)

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
2011	33	52	45	40	43	46	55	56	68	71	79	81
2012	76	72	75	64	50	43	46	55	57	66	77	79
2013	80	65	63	35	20	18	19	17	17	17	15	12
2014	4	0	15	6	8	31	55	46	25	18	5	1

Monthly SDCWA Exchange Water Deliveries

DTX-1156

		JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	Annual
2011	SWP in Exchange AF	4,378.6	6,820.1	5,965.9	5,192.2	5,688.5	6,050.7	7,164.7	7,315.8	8,884.4	6,948.7	5,109.4	7,062.0	76,581.1
	CRA in Exchange AF	8,763.1	6,321.5	7,175.8	7,949.5	7,453.1	7,091.0	5,977.0	5,825.8	4,257.2	2,804.4	1,365.5	1,678.0	66,661.8
	Total Volume Exchange AF	13,141.7	13,141.6	13,141.7	13,141.7	13,141.6	13,141.7	13,141.7	13,141.7	13,141.6	13,141.6	9,753.1	6,474.9	8,740.0
2012	SWP in Exchange AF	11,607.6	11,141.2	11,455.4	9,905.8	7,759.8	6,546.5	7,055.4	8,383.4	8,684.2	10,160.8	11,826.5	14,005.2	118,532.0
	CRA in Exchange AF	3,760.9	4,227.3	3,913.1	5,462.7	7,608.7	8,822.0	8,313.1	6,985.1	6,684.3	5,207.7	3,542.0	3,802.3	68,329.0
	Total Volume Exchange AF	15,368.5	15,368.5	15,368.5	15,368.5	15,368.5	15,368.5	15,368.5	15,368.5	15,368.5	15,368.5	15,368.5	17,807.5	186,861.0
2013	SWP in Exchange AF	11,857.3	9,566.2	9,342.9	5,199.5	3,035.2	2,628.8	2,814.9	2,458.2	2,559.7	2,585.1	2,207.4	2,029.5	56,284.6
	CRA in Exchange AF	2,951.0	5,242.1	5,465.4	9,608.8	11,773.1	12,179.5	11,993.4	12,350.1	12,248.6	12,223.2	12,600.9	15,335.2	123,971.4
	Total Volume Exchange AF	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	17,364.7	180,256.0
2014	SWP in Exchange AF	546.1	5.5	2,191.6	834.2	1,229.1	4,639.9	8,154.1	6,740.2	3,722.5	2,695.1	671.3	115.9	31,545.4
	CRA in Exchange AF	14,262.2	14,802.8	12,616.7	13,974.1	13,579.2	10,168.4	6,654.2	8,068.1	11,085.8	12,113.2	14,137.0	16,985.8	148,447.6
	Total Volume Exchange AF	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	14,808.3	17,101.7	179,993.0

Source: DTX-1105, PTX-469

Monthly Untreated Deliveries to SDCWA

DTX-1157

		JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
2011	Total Volume	15,742	19,491	17,306	20,647	22,271	29,985	34,738	34,904	34,998	31,565	22,733	16,337
	CRA Water In Total Volume	10,497	9,376	9,449	12,490	12,631	16,179	15,799	15,473	11,338	9,076	4,794	3,137
	Total Exchange Volume	13,142	13,142	13,142	13,142	13,142	13,142	13,142	13,142	13,142	9,753	6,475	8,740
2012	Total Volume	19,457	19,937	19,485	23,967	32,033	38,933	35,554	38,214	38,505	27,113	30,056	21,626
	CRA Water In Total Volume	4,762	5,484	4,961	8,519	15,859	22,349	19,232	17,368	16,747	9,187	6,927	4,618
	Total Exchange Volume	15,369	15,369	15,369	15,369	15,369	15,369	15,369	15,369	15,369	15,369	15,369	17,808
2013	Total Volume	20,648	20,281	26,396	31,051	37,069	37,484	37,420	39,064	45,423	37,713	25,668	23,981
	CRA Water In Total Volume	4,115	7,179	9,373	20,148	29,472	30,830	30,307	32,579	37,572	31,129	21,842	21,178
	Total Exchange Volume	14,808	14,808	14,808	14,808	14,808	14,808	14,808	14,808	14,808	14,808	14,808	17,365
2014	Total Volume	30,928	25,148	32,926	37,543	48,398	47,155	49,235	49,239	47,411	38,026	29,463	25,822
	CRA Water In Total Volume	29,788	25,138	28,053	35,428	44,381	32,380	22,124	26,827	35,493	31,105	28,127	25,647
	Total Exchange Volume	14,808	14,808	14,808	14,808	14,808	14,808	14,808	14,808	14,808	14,808	14,808	17,102

Source: DTX-1105, PTX-469