

Roles and Responsibilities

Administrator

CCWD will be the Producer, Distributor and Administrator under the General Permit and will assume the duties and responsibilities described in the General Permit Provisions.

Recycle Use Supervisor:

Ben Stopper, LaContenta Wastewater Treatment Plant, 209-754-9667.

Mr. Stopper will be the Producer and Distributor's field representative familiar with Specifications and Provisions in the General Order and the Monitoring and Reporting Program.

Mr. Stopper has a California Grade 1 Wastewater Treatment Operator certificate and DPH T2 Operator certificate and can be contacted at. He regularly interacts with golf course personal to supply the reclaimed water. He is trained to perform the required sampling of the recycled water. A certified laboratory performs the analysis. The Operator monitors the irrigation system on a daily basis both by site visits and SCADA. In addition the irrigation is being continuously monitored by a SCADA system. The operator is intimately familiar with the use of the SCADA system and an automatic notification system is in place. Copies of his Water and Wastewater Certifications are enclosed.

The golf course has a backflow device installed to protect the public water supply. The device is inspected on an annual basis by a certified backflow tester.

All water recycling meets the requirements in Title 22, CCR.

Attached is a copy of the WDR which lists the Water Recycling Specifications. The Golf Course is in compliance with all the permit requirements.

The Director of Golf:

Mart Davis, LaContenta Director of Golf, 209-772-1081

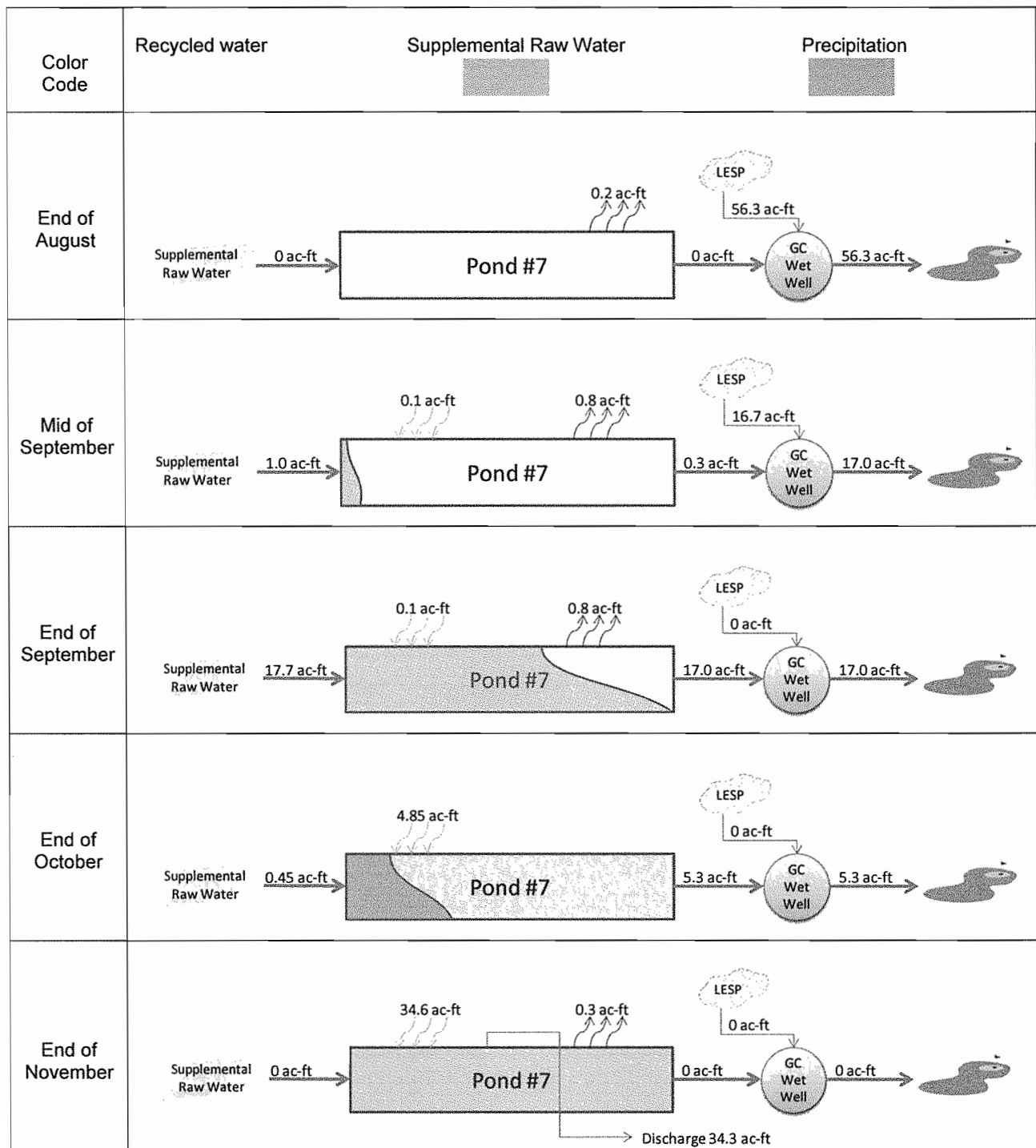
The Director of Golf is a PGA of America Professional Golfer. He has many years of golf experience. The Director of Golf makes all the necessary adjustments to insure efficient operation and maintenance of recycled water facilities. Regular inspections of the golf course are conducted by the Director of Golf to promote turf health and playability.

The Director of Golf sets up the automated irrigation system in such a way that there is no run off from the golf course. The system is tied into a weather monitoring station on site which makes daily adjustments to the irrigation program. Mr. Davis was trained in the use of the Toro Site Pro Irrigation System. He has a technical support agreement with Toro. The golf course irrigation system is designed such that there will be no or minimal runoff into the water hazards, ponds, surface water drainage courses, and

creeks throughout the golf course. Features to prevent runoff include: small sprinkler irrigation zones, buffer zones between irrigated areas and surface water bodies, sprinkler zones that can be adjusted individually to correspond to local soil conditions, an onsite weather station used to determine daily evaporation rates, an irrigation computer program to adjust daily irrigation rates. CCWD provides mechanical and electrical support for the District's delivery system. The actual irrigation flowrates on the golf course are recorded daily. Attached is a copy of the monthly irrigation flow rates.

The golf course conducts regular nutrient testing to ensure that all fertilizers are used at agronomic rates. The Director of Golf is also certified in the use of pesticides for which he annually attends training.

Pond #7 Turnover Schematics under 100-year Wet Weather



Water Balance (Revised) - 100 Year and Average Year Storm Event - Future Flows

ADWF (gpd)	
200,000	
Lower Effluent Storage Pond (LESP)	
Average Year Volume (ac-ft)	172.0
Catchment Area (ac)	17.9
Max Water Surface Area (ac)	14.5

STORM YEAR STORAGE	
LESP Volume (ac-ft)	28.0
Estimated LESP Volume (ac-ft)	43.0
Max Water Surface Area	77.0
TOTAL	

GOLF COURSE IRRIGATION POND #7	
Volume (ac-ft)	25.8
Catchment Area (ac)	255.0
Max Water Surface Area	4.5

LA CONTENTA GOLF COURSE IRRIGATION	
Area (ac)	70
Maximum Application Rate (inches/y)	21.2

Month		EFFLUENT PRODUCTION				HISTORIC WEATHER DATA			STORAGE - LOWER EFFLUENT STORAGE POND (LESP)					LA CONTENTA GOLF COURSE - IRRIGATION POND #7					IRRIGATION		POND #7 DISCHARGE				
		Average Dry Weather Flow (ADWF)		1 st Inflow (ac-ft)		Precipitation	ET	Inflow (ac-ft)	Precipitation	Evaporation	Percolation	Recycled Water to Pond #7	Change	Stored Volume	Excess Water Stored in LESP or LESP	Raw Water From LESP	Inflow (ac-ft)	Outflow (ac-ft)	Surface Water Discharge (ac-ft)	Golf Course Demand (ac-ft)	Pond Turnovers	Recycled Water as Pond Discharge			
		gpd	gal/month	ac-ft/month	(in/month)	% of Total	in/month	in/month																	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)
Oct	31	200,000	6,200,000	19.0	0.4	19.4	5.4	2.2	5.1	18.4	1.9	0.0	20.4	0.0	0.4	4.8	0.0	5.3	0.0	25.8	0.0	25.8	0.0	25.8	0.0
Nov	30	200,000	6,000,000	16.4	1.6	20.0	11.7	4.8	2.1	20.0	5.5	0.2	25.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0	25.8	0.0	25.8	0.0
Dec	31	200,000	6,200,000	16.0	0.0	16.0	11.7	4.8	2.1	20.0	5.5	0.2	25.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0	25.8	0.0	25.8	0.0
Jan	31	200,000	6,200,000	19.0	10.5	25.5	18.4	7.2	1.3	20.0	9.4	0.5	37.5	0.0	0.0	0.0	60.4	0.2	0.0	60.3	0.0	25.8	0.0	4.70	0.0%
Feb	28	200,000	5,600,000	17.2	16.3	33.5	16.7	6.8	1.8	33.5	8.5	0.8	39.9	0.0	0.0	0.0	77.9	0.2	0.0	77.8	0.0	25.8	0.0	7.73	0.0%
Mar	31	200,000	6,200,000	19.0	5.3	24.4	15.9	6.5	3.5	24.4	1.5	0.0	28.9	172.0	0.0	0.0	61.0	0.5	0.0	66.2	0.0	66.2	0.0	10.31	0.0%
Apr	30	200,000	6,000,000	16.4	5.5	23.9	9.0	3.7	5.4	23.9	3.9	3.2	23.1	172.0	0.0	0.0	19.8	0.7	0.0	60.5	25.8	66.3	0.0	12.70	0.0%
May	31	200,000	6,200,000	19.0	4.6	23.6	3.9	1.6	8.2	23.6	1.2	6.9	18.5	162.5	0.0	0.2	1.4	1.6	35.7	5.3	25.8	0.0	35.8	NA	0.0%
Jun	30	200,000	6,000,000	16.4	1.5	19.9	1.2	0.5	10.1	19.9	0.1	8.1	1.5	92.0	0.0	52.0	1.8	0.2	29.0	82.0	0.0	25.8	0.0	52.0	NA
Jul	31	200,000	6,200,000	19.0	0.0	19.0	0.2	0.1	12.2	19.0	0.1	8.1	1.2	96.2	0.0	66.2	2.3	0.0	2.4	66.2	0.0	25.8	0.0	66.2	NA
Aug	31	200,000	6,200,000	19.0	0.0	19.0	0.3	0.1	11.0	19.0	0.1	4.2	56.3	0.0	0.0	66.2	2.3	0.0	2.4	66.2	0.0	25.8	0.0	66.2	NA
Sep	30	200,000	6,000,000	16.4	0.4	16.8	1.4	0.6	8.2	16.8	0.1	4.2	56.3	0.0	0.0	66.2	2.3	0.0	2.4	66.2	0.0	25.8	0.0	66.2	NA
Subtotal						272.1	184.0	10.7	30.9	272.0	44.7	35.5	11.7	227.0	0.0	36.7	19.7	0.2	1.6	34.0	0.0	25.8	0.0	0.79	NA
Oct	31	200,000	6,200,000	19.0	0.4	19.4	5.4	2.2	5.1	18.4	0.6	0.2	0.0	19.3	0.0	22.0	25.5	326.9	11.7	263.3	304.4	304.4	263.3	0.0	304.4
Nov	30	200,000	6,000,000	16.4	1.6	20.0	11.7	4.8	2.1	19.2	2.3	0.2	0.0	21.0	0.0	0.0	11.3	0.1	0.0	9.8	0.0	25.8	0.0	11.4	NA
Dec	31	200,000	6,200,000	16.0	0.0	16.0	11.7	4.8	2.1	19.2	2.3	0.2	0.0	21.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	25.8	0.0	9.8	NA
Jan	31	200,000	6,200,000	19.0	1.1	20.1	15.9	3.4	1.3	20.1	3.5	0.0	22.8	0.0	0.0	0.0	16.1	0.2	0.0	16.0	25.8	16.0	0.0	2.25	0.0%
Feb	28	200,000	5,600,000	17.2	8.5	25.7	16.7	3.6	1.8	24.5	4.2	0.4	0.6	0.0	0.0	0.0	22.7	0.2	0.0	22.5	25.8	22.5	0.0	0.0	0.0%
Mar	31	200,000	6,200,000	19.0	2.8	21.8	15.9	3.4	3.5	21.8	3.5	0.7	1.1	0.0	0.0	0.0	18.4	0.2	0.0	18.1	25.8	18.1	0.0	3.14	0.0%
Apr	30	200,000	6,000,000	16.4	2.9	21.3	9.0	1.9	5.4	21.3	1.5	2.0	1.4	0.0	0.0	0.0	16.2	0.5	7.4	8.5	25.8	8.5	7.4	4.31	0.0%
May	31	200,000	6,200,000	19.0	2.4	21.4	3.9	0.8	8.2	21.4	0.3	6.2	1.4	46.2	0.0	21.0	0.7	0.0	0.7	24.0	0.0	25.8	0.0	24.0	NA
Jun	30	200,000	6,000,000	16.4	0.6	19.2	1.2	0.2	10.1	19.2	0.3	1.4	0.2	138.0	0.0	46.2	1.3	0.3	0.6	25.8	0.0	25.8	0.0	25.8	NA
Jul	31	200,000	6,200,000	19.0	0.0	19.0	0.2	0.1	12.2	19.0	0.0	5.7	68.4	0.0	0.0	11.0	0.1	0.1	2.6	43.0	0.0	25.8	0.0	53.1	NA
Aug	31	200,000	6,200,000	19.0	0.0	19.0	0.3	0.1	11.0	19.0	0.1	1.3	0.2	33.3	0.0	33.3	25.3	0.0	2.4	56.4	0.0	25.8	0.0	66.4	NA
Sep	30	200,000	6,000,000	16.4	0.2	16.6	1.4	0.3	8.2	16.6	0.0	0.0	0.0	0.0	0.0	18.6	18.4	0.1	1.6	55.6	0.0	25.8	0.0	56.6	NA
Subtotal						249.1	25.1	249.1	100.0	21.3	70.3	249.1	19.9	28.6	9.5	233.0	64.0	84.5	11.7	304.7	65.1	65.1	304.7	0.0	304.7

NOTES:

- (1) Months. Recycled water accumulation in storage ponds begins in October.
- (2) Average dry weather flow (ADWF) converted to acre-ft/month.
- (3) Estimated inflow and infiltration (I/I) flows based on monthly peaking factors which were applied to the ADWF in Column (2).
- (4) Total effluent flow is equal to the sum of the ADWF plus I/I. Column (2) + Column (3)
- (5) Estimated percent of total annual rainfall within a given month.
- (6) Class A pan evaporation rates for Camp Pines.
- (7) Class A pan evaporation rates for Camp Pines.
- (8) Effluent conveyed to the LESP. Equal to Column (4).
- (9) Estimated precipitation inflow to LESP based on Column (6), total pond catchment area, and curve number of 90.
- (10) Estimated evaporation outflow from LESP = Pan Coefficient x Evaporation Factor x Column (7) x Storage Pond Surface Area. Pan coefficient = 0.7 (October - April). Pan coefficient = 1.0 (May - September). Evaporation factor = 0.70.
- (11) Estimated percolation outflow from LESP. Percolation can be 1.3 - 2.9 x 10⁻⁴ cm/sec. Percolation in the water balance was based on the lower percolation value.
- (12) Recycled water to storage at either LESP or Pond #7 for golf course irrigation.
- (13) Change in stored volume in LESP = Effluent (8) + Precipitation (9) - Evaporation (10) - Percolation (11) - Recycled Water Conveyed to Pond #7 (12).
- (14) Negative value represents emptying of LESP. Storage period in October through March.
- (15) The LESP has a volume of 172 ac-ft at a 4 ft freeboard from the dam crest. Volume of water exceeding the 172 ac-ft volume will be stored in either:
(a) The Upper Effluent Storage Pond (UESP) which will serve as a dual purpose pond, providing treated effluent storage and emergency storage for non-compliant effluent.
(b) The 22.2 Acre Pond, Section 60341, long-term storage used as a reliability feature, providing emergency storage, must provide at least 20 days of storage. The District's maximum month flow during an average year is about 0.34 mgd.
(c) At this flow, the District would need about 21 ac-ft of emergency storage. The LESP has a capacity of 49 ac-ft. This leaves about 28 ac-ft for storage of flows exceeding LESP capacity.
(d) If the flow, the District would need about 21 ac-ft of emergency storage. The LESP has a capacity of 49 ac-ft. This leaves about 28 ac-ft for storage of flows exceeding LESP capacity.
(e) Boards will be installed around the LESP pathway to reduce the freeboard and increase capacity. An additional 49 ac-ft will be available. The District will need to notify the DSD prior to this operation.
- (16) Recycled water conveyed from LESP to Pond #7. Equal to Column (12).
- (17) Recycled water conveyed to Pond #7 to supplement recycled water.
- (18) Raw water conveyed to Pond #7 based on Column (6), total pond catchment area, and curve number of 90.
- (19) Estimated precipitation inflow to Pond #7 based on Column (6), total pond catchment area, and curve number of 90.
- (20) Total water used for irrigation of the golf course. Equal to Column (12).
- (21) Change in stored volume in Pond #7 = Inflow from LESP (16) + Raw Water (17) + Precipitation (18) - Evaporation (19) - Recycled Water Discharge point and is always full.
- (22) Pond #7 volume. The pond is not a storage pond. It is the surface water discharge point and is always full.
- (23) Volume of the surface water discharge from Pond #7.
- (24) Estimated irrigation rate based on historical golf course recycled water and raw water use from 2007 - 2009.
- (25) Pond Turnovers: Pond volumes of raw water and precipitation after recycle water deliveries cease; recycled water in Pond displaced by raw water and precipitation without mixing. NA = not applicable (no turnovers)
- (26) Recycled water as percent of water discharged from Pond #7. NA = not applicable (no discharges)

LA CONTENTA G.C.
METERED EFFLUENT THRU PUMP STATION

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
JAN											
FEB											
MARCH			2.29	3.97	0.36		5.35	10.04	6.790	4.260	
APRIL		4.43	1.46	14.49	8.82	7.75	12.91	17.24	17.800	3.310	3.06
MAY		7.7	12.15	19.19	11.99	18.67	22.42	25.54	26.510	18.220	13.68
JUNE	8.55	23.21	19.02	19.85	18.17	28.18	26.34	29.95	32.800	36.080	16.84
JULY	11.52	17.66	21.33	20.29	17.58	26.55	28.61	29.95	39.670	37.710	33.33
AUG	6.47	0.99	22.68	19.98	19.76	28.84	27.81	33.7	32.360	35.270	33.4
SEPT	5.45	1.29	20.1	14.21	20.52	24.18	19.33	23.31	23.960	30.420	30.77
OCT	4.63		15.13	6.15	10.52	9.76	3.34	14.51	11.230	11.060	6.59
NOV	0.84		0.11		0.74	0.32				1.570	2.48
DEC.											3
TOTAL	37.46	55.28	114.27	118.13	108.46	144.25	146.11	184.24	191.130	177.900	143.15
		HOGAN WATER PUMPED									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
JAN											
FEB											
MARCH				4.16							
APRIL		4.12		19.98	3.81		4.29	15.83			
MAY	27.87	15.99	17.03	30.67	11.81	9.96	20.10	21.86	15.99		
JUNE	34.00	26.52	35.23	38.32	22.59	26.45	32.40	20.95	16.39	8.41	9.27
JULY	42.35	46.94	48.93	44.22	39.02	37.36	35.58	29.91	38.18	30.01	28.51
AUG	47.19	46.35	33.13	37.95	43.27	26.43	26.16	26.12	24.95	17.7	24.03
SEPT	20.69	37.05	16.61	27.19	20.42	9.06	9.97	22.3	10.15	6.77	11.7
OCT	6.29	20.05	10.33	5.99	0		0	5.02	5.02	0	0
NOV					13.85		9.34			0	0
DEC.											0
TOTAL	178.39	197.02	161.26	208.48	154.77	109.26	137.84	141.99	110.68	62.89	73.6
TOTAL WATERS	215.85	252.30	275.53	326.61	263.23	253.51	283.95	326.23	301.81	240.790	216.75



RON CHAPMAN, MD, MPH
Director & State Health Officer

State of California-Health and Human Services Agency
Department of Public Health



EDMUND G. BROWN JR
Governor

Benjamin D. Stopper
PO Box 476
Mokelumne Hill, CA 95245

February 14, 2012

Grade: T2

Operator #: 34171

Subject: **Treatment ID**

Your certification has been evaluated and approved. Below is your ID card. This is official notice of your certification. Your next renewal is due **October 1, 2014**.

If you have any questions regarding your renewal status, you may contact us at the number below.

Operator Certification Unit

Drinking Water Program, Operator Certification Unit
P. O. Box 997377, MS# 7417, Sacramento, CA 95899-7377
Phone: (916) 449-5611 Fax: (916) 449-5654
Internet Address: <http://www.cdph.ca.gov/certlic/occupations/Pages/DWopcert.aspx>

Receipt and Pocket ID Card

State of California
Department of Public Health



This verifies that the individual named below
has paid the appropriate fee and is a certified
Water Treatment Operator

Name: Benjamin D. Stopper

Level: T2

Operator # 34171

Expires: 2-1-2015

Fee Paid: \$80

Due: 10-1-2014

Signature:

Please sign card.

B:117

State of California
State Water Resources Control Board

Certificate of Competence

This is to certify that pursuant to the provisions of Chapter 9, Division 7
of the California Water Code

Benjamin D. Stopper

has fulfilled the requirements for certification as a

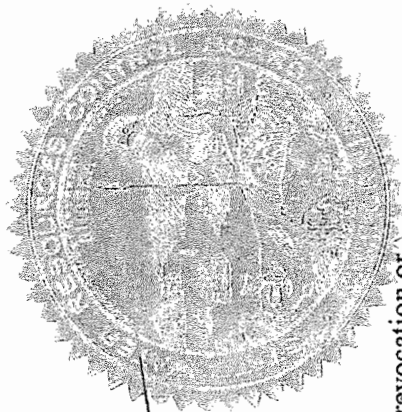
Grade I

Wastewater Treatment Plant Operator
Certificate Number I-28979

Issued on March 11, 2011

Original Issue Date: March 11, 2011

EXPIRATION DATE: December 31, 2012



Charles Hoppin
Chairman

This certificate is the property of the State of California and in the event of its suspension, revocation or invalidation for any reason, it must be returned to the State Water Resources control board upon demand.