

2012 Integrated Report Data Submittal Information Form

Contact Information			
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Submittal Information			
Submittal Date:	07/21/2010		
Region data intended for: (Check all that apply)	<input type="checkbox"/> (1) North Coast	<input type="checkbox"/> (2) San Francisco	<input type="checkbox"/> (3) Central Coast
	<input type="checkbox"/> (4) Los Angeles	<input type="checkbox"/> (5) Central Valley	<input type="checkbox"/> (6) Lahontan
	<input type="checkbox"/> (7) Colorado River	<input checked="" type="checkbox"/> (8) Santa Ana	<input type="checkbox"/> (9) San Diego
GIS map layers included:	<input type="checkbox"/> Yes		
Pollutant Categories: (Check all that apply)	<input type="checkbox"/> Hydromodification	<input checked="" type="checkbox"/> Other Organics	<input type="checkbox"/> Toxicity
	<input checked="" type="checkbox"/> Metals/Metalloids	<input type="checkbox"/> Pathogens	<input type="checkbox"/> Trash
	<input type="checkbox"/> Nuisance	<input checked="" type="checkbox"/> Pesticides	<input checked="" type="checkbox"/> Miscellaneous
	<input type="checkbox"/> Nutrients	<input type="checkbox"/> Salinity	
	<input type="checkbox"/> Other Inorganics	<input type="checkbox"/> Sediment	
Time Period Data Collected:	01/27/2010 - 03/09/2010		
Summary of Data (Explanation of data included in submission or instructions on using data.):			
SAMPLES TAKEN FROM TEMESCAL CREEK IN RIVERSIDE COUNTY at 33 40' 50" N, 117 20' 00" W			
Submittal format:	<input checked="" type="checkbox"/> Electronic	<input type="checkbox"/> Hard Copy/Paper	

Internal Use Only (by Water Boards)			
Control #:	_____	Date Received:	___ / ___ / ___

Eastern Municipal Water District

Contact: Al Javier, Environmental Services Manager - Telephone: 951-928-3777 - E-mail: javiera@emwd.org

Santa Ana Regional Water Quality Control Board

Sample Location in the City of Elsinore, Riverside County, California

Temescal Creek Down Stream Sampling Location 33 40' 50" N, 117 20' 00" W

Sample Date/Time	Method	Parameter	Unit of Measure	Result	Mdl	Rdl
1/27/2010 8:30	FT, Field Testing	Dissolved Oxygen, Field	mg/L	8		
1/27/2010 8:30	FT, Field Testing	Field Temperature	Deg C	16		
1/27/2010 8:30	FT, Field Testing	pH, Field	pH unit	7.1		
1/27/2010 8:30	ICP Metals, EPA 200.7	Calcium	mg/L	62	0.065	1
1/27/2010 8:30	ICP Metals, EPA 200.7	Hardness	mg/L	234		
1/27/2010 8:30	ICP Metals, EPA 200.7	Magnesium	mg/L	19	0.029	1
1/27/2010 8:30	TSS, SM 2540D	Total Suspend Solids	mg/L	6	1.3	3
2/2/2010 9:20	2378 TCDD (Dioxin), EPA 1613B	2,3,7,8-TCDD (Dioxin)	pg/L	<0.58	0.58	0.58
2/2/2010 9:20	Chlorinated Pest, EPA 608	4,4-DDD	ug/L	<0.05	0.0051	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	4,4-DDE	ug/L	<0.05	0.0076	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	4,4-DDT	ug/L	<0.05	0.0088	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	Aldrin	ug/L	<0.05	0.012	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	alpha-BHC	ug/L	<0.05	0.0075	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	beta-BHC	ug/L	<0.05	0.0049	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	Chlordane	ug/L	<0.5	0.37	0.5
2/2/2010 9:20	Chlorinated Pest, EPA 608	delta-BHC	ug/L	<0.05	0.0048	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	Dieldrin	ug/L	<0.05	0.0048	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	Endosulfan I	ug/L	<0.05	0.0017	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	Endosulfan II	ug/L	<0.05	0.0051	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	Endosulfan sulfate	ug/L	<0.05	0.0051	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	Endrin	ug/L	<0.05	0.0053	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	Endrin aldehyde	ug/L	<0.05	0.0055	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	gamma-BHC (Lindane)	ug/L	<0.05	0.0047	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	Heptachlor	ug/L	<0.05	0.0093	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	Heptachlor epoxide	ug/L	<0.05	0.0055	0.05
2/2/2010 9:20	Chlorinated Pest, EPA 608	PCB-1016	ug/L	<1	0.41	1
2/2/2010 9:20	Chlorinated Pest, EPA 608	PCB-1221	ug/L	<1	0.31	1
2/2/2010 9:20	Chlorinated Pest, EPA 608	PCB-1232	ug/L	<1	0.74	1
2/2/2010 9:20	Chlorinated Pest, EPA 608	PCB-1242	ug/L	<1	0.34	1
2/2/2010 9:20	Chlorinated Pest, EPA 608	PCB-1248	ug/L	<1	0.28	1
2/2/2010 9:20	Chlorinated Pest, EPA 608	PCB-1254	ug/L	<1	0.21	1
2/2/2010 9:20	Chlorinated Pest, EPA 608	PCB-1260	ug/L	<1	0.21	1
2/2/2010 9:20	Chlorinated Pest, EPA 608	Toxaphene	ug/L	<2	1.6	2
2/2/2010 9:20	Chromium VI, EPA 218.6	Chromium Hexavalent	ug/L	<0.3	0.0059	0.3
2/2/2010 9:20	Cyanide, EPA 335.3	Cyanide-Free	mg/L	<0.005	0.0027	0.005
2/2/2010 9:20	FT, Field Testing	Dissolved Oxygen, Field	mg/L	9.2		
2/2/2010 9:20	FT, Field Testing	Field Temperature	Deg C	18		
2/2/2010 9:20	FT, Field Testing	pH, Field	pH unit	7.1		
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Antimony	ug/L	<2.0	0.48	2

Eastern Municipal Water District

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Santa Ana Regional Water Quality Control Board

Sample Location in the City of Elsinore, Riverside County, California

Temescal Creek Down Stream Sampling Location 33 40' 50" N, 117 20' 00" W

Sample Date/Time	Method	Parameter	Unit of Measure	Result	Mdl	Rdl
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Antimony Dissolved	ug/L	4.4		2
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Arsenic	ug/L	<2.0	0.607	2
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Arsenic Dissolved	ug/L	<2.0		2
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Beryllium	ug/L	<0.50	0.116	0.5
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Beryllium Dissolved	ug/L	1.2		0.5
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Cadmium	ug/L	<0.50	0.075	0.5
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Cadmium Dissolved	ug/L	<0.50		0.5
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Chromium (Total)	ug/L	<2.0	0.342	2
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Chromium-Total Dissolved	ug/L	<2.0		2
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Copper	ug/L	4.2	0.308	3
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Copper Dissolved	ug/L	<3.0		3
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Lead	ug/L	<1.0	0.421	1
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Lead Dissolved	ug/L	<1.0		1
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Nickel	ug/L	<5.0	0.686	5
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Nickel Dissolved	ug/L	<5.0		5
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Selenium	ug/L	<2.0	0.425	2
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Selenium Dissolved	ug/L	<2.0		2
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Silver	ug/L	<0.50	0.065	0.5
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Silver Dissolved	ug/L	<0.50		0.5
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Thallium	ug/L	<1.0	0.177	1
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Thallium Dissolved	ug/L	<1.0		1
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Zinc	ug/L	26	1	5
2/2/2010 9:20	ICP-MS Metals, EPA 200.8	Zinc Dissolved	ug/L	28		5
2/2/2010 9:20	Mercury, EPA 245.1	Mercury	ug/L	<0.2	0.0917	0.2
2/2/2010 9:20	Mercury, EPA 245.1	Mercury Dissolved	ug/L	No Limit Defined		
2/2/2010 9:20	SVOC, EPA 625	1,2-Dichlorobenzene	ug/L	<5	0.3	5
2/2/2010 9:20	SVOC, EPA 625	1,2-Diphenylhydrazine	ug/L	<5	0.35	5
2/2/2010 9:20	SVOC, EPA 625	1,2,4-Trichlorobenzene	ug/L	<5	0.26	5
2/2/2010 9:20	SVOC, EPA 625	1,3-Dichlorobenzene	ug/L	<5	0.36	5
2/2/2010 9:20	SVOC, EPA 625	1,4-Dichlorobenzene	ug/L	<5	0.32	5
2/2/2010 9:20	SVOC, EPA 625	2-Chloronaphthalene	ug/L	<5	0.26	5
2/2/2010 9:20	SVOC, EPA 625	2-Chlorophenol	ug/L	<5	0.71	5
2/2/2010 9:20	SVOC, EPA 625	2-Nitrophenol	ug/L	<5	0.84	5
2/2/2010 9:20	SVOC, EPA 625	2,4-Dichlorophenol	ug/L	<5	0.77	5
2/2/2010 9:20	SVOC, EPA 625	2,4-Dimethylphenol	ug/L	<5	0.8	5
2/2/2010 9:20	SVOC, EPA 625	2,4-Dinitrophenol	ug/L	<20	5	20
2/2/2010 9:20	SVOC, EPA 625	2,4-Dinitrotoluene	ug/L	<5	0.4	5
2/2/2010 9:20	SVOC, EPA 625	2,4,6-Trichlorophenol	ug/L	<10	0.88	10
2/2/2010 9:20	SVOC, EPA 625	2,6-Dinitrotoluene	ug/L	<5	0.24	5

Eastern Municipal Water District

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Santa Ana Regional Water Quality Control Board

Sample Location in the City of Elsinore, Riverside County, California

Temescal Creek Down Stream Sampling Location 33 40' 50" N, 117 20' 00" W

Sample Date/Time	Method	Parameter	Unit of Measure	Result	Mdl	Rdl
2/2/2010 9:20	SVOC, EPA 625	3,3'-Dichlorobenzidine	ug/L	<5	0.3	5
2/2/2010 9:20	SVOC, EPA 625	4-Bromophenyl phenyl ether	ug/L	<5	0.23	5
2/2/2010 9:20	SVOC, EPA 625	4-Chloro-3-methylphenol	ug/L	<5	0.4	5
2/2/2010 9:20	SVOC, EPA 625	4-Chlorophenyl phenyl ether	ug/L	<5	0.24	5
2/2/2010 9:20	SVOC, EPA 625	4-Nitrophenol	ug/L	<10	6.7	10
2/2/2010 9:20	SVOC, EPA 625	4,6-Dinitro-2-methylphenol	ug/L	<10	0.33	10
2/2/2010 9:20	SVOC, EPA 625	Acenaphthene	ug/L	<5	0.31	5
2/2/2010 9:20	SVOC, EPA 625	Acenaphthylene	ug/L	<5	0.26	5
2/2/2010 9:20	SVOC, EPA 625	Anthracene	ug/L	<5	0.28	5
2/2/2010 9:20	SVOC, EPA 625	Benzidine	ug/L	<5	0.7	5
2/2/2010 9:20	SVOC, EPA 625	Benzo (a) anthracene	ug/L	<5	0.19	5
2/2/2010 9:20	SVOC, EPA 625	Benzo (a) pyrene	ug/L	<5	0.2	5
2/2/2010 9:20	SVOC, EPA 625	Benzo (b) fluoranthene	ug/L	<5	0.16	5
2/2/2010 9:20	SVOC, EPA 625	Benzo (g,h,i) perylene	ug/L	<5	0.31	5
2/2/2010 9:20	SVOC, EPA 625	Benzo (k) fluoranthene	ug/L	<5	0.23	5
2/2/2010 9:20	SVOC, EPA 625	Bis(2-chloroethoxy)methane	ug/L	<5	0.4	5
2/2/2010 9:20	SVOC, EPA 625	Bis(2-chloroethyl)ether	ug/L	<5	0.46	5
2/2/2010 9:20	SVOC, EPA 625	Bis(2-chloroisopropyl)ether	ug/L	<5	0.48	5
2/2/2010 9:20	SVOC, EPA 625	Bis(2-ethylhexyl)phthalate	ug/L	<5	2.6	5
2/2/2010 9:20	SVOC, EPA 625	Butyl benzyl phthalate	ug/L	<5	1	5
2/2/2010 9:20	SVOC, EPA 625	Chrysene	ug/L	<5	0.25	5
2/2/2010 9:20	SVOC, EPA 625	Di-n-butyl phthalate	ug/L	<5	0.53	5
2/2/2010 9:20	SVOC, EPA 625	Di-n-octyl phthalate	ug/L	<5	0.28	5
2/2/2010 9:20	SVOC, EPA 625	Dibenzo (a,h) anthracene	ug/L	<5	0.32	5
2/2/2010 9:20	SVOC, EPA 625	Diethyl phthalate	ug/L	<5	2	5
2/2/2010 9:20	SVOC, EPA 625	Dimethyl phthalate	ug/L	<5	0.26	5
2/2/2010 9:20	SVOC, EPA 625	Fluoranthene	ug/L	<5	0.16	5
2/2/2010 9:20	SVOC, EPA 625	Fluorene	ug/L	<5	0.28	5
2/2/2010 9:20	SVOC, EPA 625	Hexachlorobenzene	ug/L	<5	0.15	5
2/2/2010 9:20	SVOC, EPA 625	Hexachlorobutadiene	ug/L	<5	0.41	5
2/2/2010 9:20	SVOC, EPA 625	Hexachlorocyclopentadiene	ug/L	<10	5	10
2/2/2010 9:20	SVOC, EPA 625	Hexachloroethane	ug/L	<5	0.36	5
2/2/2010 9:20	SVOC, EPA 625	Indeno (1,2,3-cd) pyrene	ug/L	<5	0.32	5
2/2/2010 9:20	SVOC, EPA 625	Isophorone	ug/L	<5	0.33	5
2/2/2010 9:20	SVOC, EPA 625	N-Nitrosodi-n-propylamine	ug/L	<5	0.41	5
2/2/2010 9:20	SVOC, EPA 625	N-Nitrosodimethylamine (NDMA)	ug/L	<5	0.36	5
2/2/2010 9:20	SVOC, EPA 625	N-Nitrosodiphenylamine	ug/L	<5	0.23	5
2/2/2010 9:20	SVOC, EPA 625	Naphthalene	ug/L	<5	0.35	5
2/2/2010 9:20	SVOC, EPA 625	Nitrobenzene	ug/L	<5	0.37	5

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Santa Ana Regional Water Quality Control Board

Sample Location in the City of Elsinore, Riverside County, California

Temescal Creek Down Stream Sampling Location 33 40' 50" N, 117 20' 00" W

Sample Date/Time	Method	Parameter	Unit of Measure	Result	Mdl	Rdl
2/2/2010 9:20	SVOC, EPA 625	Pentachlorophenol	ug/L	<5	0.56	5
2/2/2010 9:20	SVOC, EPA 625	Phenanthrene	ug/L	<5	0.25	5
2/2/2010 9:20	SVOC, EPA 625	Phenol	ug/L	<5	0.3	5
2/2/2010 9:20	SVOC, EPA 625	Pyrene	ug/L	<5	0.16	5
2/2/2010 9:20	VOC, EPA 624	1,1-Dichloroethane	ug/L	<1	0.32	1
2/2/2010 9:20	VOC, EPA 624	1,1-Dichloroethene	ug/L	<1	0.34	1
2/2/2010 9:20	VOC, EPA 624	1,1,1-Trichloroethane	ug/L	<1	0.39	1
2/2/2010 9:20	VOC, EPA 624	1,1,2-Trichloroethane	ug/L	<1	0.29	1
2/2/2010 9:20	VOC, EPA 624	1,1,2,2-Tetrachloroethane	ug/L	<1	0.34	1
2/2/2010 9:20	VOC, EPA 624	1,2-Dichloroethane	ug/L	<1	0.28	1
2/2/2010 9:20	VOC, EPA 624	1,2-Dichloropropane	ug/L	<1	0.28	1
2/2/2010 9:20	VOC, EPA 624	1,3-Dichloropropene (Total)	ug/L	<1	0.26	1
2/2/2010 9:20	VOC, EPA 624	2-Chloroethyl vinyl ether	ug/L	<5	0.29	5
2/2/2010 9:20	VOC, EPA 624	Acrolein	ug/L	<5	0.44	5
2/2/2010 9:20	VOC, EPA 624	Acrylonitrile	ug/L	<2	0.27	2
2/2/2010 9:20	VOC, EPA 624	Benzene	ug/L	<1	0.3	1
2/2/2010 9:20	VOC, EPA 624	Bromodichloromethane (THM)	ug/L	21	0.32	1
2/2/2010 9:20	VOC, EPA 624	Bromoform (THM)	ug/L	<1	0.23	1
2/2/2010 9:20	VOC, EPA 624	Bromomethane	ug/L	<1	0.12	1
2/2/2010 9:20	VOC, EPA 624	Carbon Tetrachloride	ug/L	<1	0.32	1
2/2/2010 9:20	VOC, EPA 624	Chlorobenzene	ug/L	<1	0.46	1
2/2/2010 9:20	VOC, EPA 624	Chloroethane	ug/L	<1	0.21	1
2/2/2010 9:20	VOC, EPA 624	Chloroform (THM)	ug/L	32	0.31	1
2/2/2010 9:20	VOC, EPA 624	Chloromethane	ug/L	<1	0.27	1
2/2/2010 9:20	VOC, EPA 624	Dibromochloromethane (THM)	ug/L	10	0.29	1
2/2/2010 9:20	VOC, EPA 624	Ethylbenzene	ug/L	<1	0.43	1
2/2/2010 9:20	VOC, EPA 624	Methylene Chloride	ug/L	<1	0.34	1
2/2/2010 9:20	VOC, EPA 624	Tetrachloroethene	ug/L	<1	0.5	1
2/2/2010 9:20	VOC, EPA 624	Toluene	ug/L	<1	0.45	1
2/2/2010 9:20	VOC, EPA 624	trans-1,2-Dichloroethene	ug/L	<1	0.32	1
2/2/2010 9:20	VOC, EPA 624	Trichloroethene	ug/L	<1	0.35	1
2/2/2010 9:20	VOC, EPA 624	Vinyl Chloride	ug/L	<1	0.33	1
2/10/2010 11:20	FT, Field Testing	Dissolved Oxygen, Field	mg/L	8.4		
2/10/2010 11:20	FT, Field Testing	Field Temperature	Deg C	18		
2/10/2010 11:20	FT, Field Testing	pH, Field	pH unit	7.1		
2/16/2010 9:00	FT, Field Testing	Dissolved Oxygen, Field	mg/L	8.8		
2/16/2010 9:00	FT, Field Testing	Field Temperature	Deg C	20		
2/16/2010 9:00	FT, Field Testing	pH, Field	pH unit	7.1		
2/23/2010 12:00	FT, Field Testing	Dissolved Oxygen, Field	mg/L	7.4		

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Temescal Creek Down Stream Sampling Location 33 40' 50" N, 117 20' 00" W

Sample Date/Time	Method	Parameter	Unit of Measure	Result	Mdl	Rdl
2/23/2010 12:00	FT, Field Testing	Field Temperature	Deg C	21		
2/23/2010 12:00	FT, Field Testing	pH, Field	pH unit	7		
3/2/2010 13:05	FT, Field Testing	Dissolved Oxygen, Field	mg/L	6.8		
3/2/2010 13:05	FT, Field Testing	Field Temperature	Deg C	21		
3/2/2010 13:05	FT, Field Testing	pH, Field	pH unit	7		
3/9/2010 11:15	FT, Field Testing	Dissolved Oxygen, Field	mg/L	5.9		
3/9/2010 11:15	FT, Field Testing	Field Temperature	Deg C	18		
3/9/2010 11:15	FT, Field Testing	pH, Field	pH unit	7		



**Sampling, Monitoring and
Reporting Plan
For
Eastern Municipal Water District
Temescal Creek Discharge**

**Regional Water Quality Control Board
Santa Ana
Discharge Order No. R8-2009-0014
NPDES No. CA8000188**

**Prepared by
Eastern Municipal Water District Staff
June 2009**

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Introduction

The purpose of this plan is to provide the details of Eastern Municipal Water District (EMWD) sampling, monitoring and reporting program as required in Section VI, C, 2, d. 'Special Studies, Technical Reports and Additional Monitoring Requirements' of the Waste Discharge Order No. R8-2009-0014. In addition, this plan describes how EMWD intends to develop and submit the technical reports required by this order.

EMWD renewed NPDES No. CA8000188, Order No. R8-2009-0014, Waste Discharge Requirements for EMWD Regionwide Water Recycling System Temescal Creek Discharge on May 22, 2009. This NPDES permit authorizes the discharge of recycled water at Temescal Creek, a tributary to the Santa Ana River, that is produced from EMWD's San Jacinto Valley (SJV), Moreno Valley (MV), Perris Valley (PV), and Temecula Valley (TV) Regional Water Reclamation Facilities (RWRFs) as well as Rancho California Water District (RCWD) Santa Rosa Water Reclamation Facility (WRF). Recycled water is utilized regionwide through a pressurized distribution system. During the wet season when there is a low demand for recycled water and storage is near capacity, EMWD discharges the excess recycled water to the Temescal Creek outfall located in the city of Elsinore. As mentioned above, RCWD has the capability to discharge Santa Rosa WRF effluent into the EMWD's distribution system.

In addition to the NPDES, EMWD's SJV, MV, PV and TV RWRFs are permitted (Order No. R8-2008-0008) by the Santa Ana Regional Water Quality Control Board (RWQCB) for land discharge. This order covers the recycled water that is produced from EMWD's RWRFs and reused in the San Jacinto River Watershed. In addition, EMWD's TV RWRF and RCWD's Santa Rosa WRF are located in the San Diego RWQCB jurisdiction and are permitted (Order No. 2000-165 and 94-65, respectively) for the activities that occur in the Santa Margarita River Watershed.

1. Sampling, Monitoring, and Reporting Requirements

a. Sampling Locations

i. Effluent Sampling Locations

The effluent sampling locations are described in the NPDES permit and are listed in Table 1. Monitoring location M-001 is the discharge to Temescal Creek, where as the rest of the monitoring locations are the effluent discharges from each individual wastewater treatment plant. The Sun City RWRF is currently offline. Therefore, flows to this facility are transferred to the Perris Valley RWRF.

Table 1. Effluent Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description	Latitude	Longitude
001	M-001	Effluent flow to Reach 5 of Temescal Creek at Dissipation Station	33°45'52"N	117°19'54"W
	M-002	Effluent monitoring at San Jacinto Valley RWRf	33°47'59"N	117°00'55"W
	M-003	Effluent monitoring at Moreno Valley RWRf	33°52'19"N	117°12'51"W
	M-004A	Effluent monitoring at Perris Valley RWRf plant 1	33°45'07"N	117°11'44"W
	M-004B	Effluent monitoring at Perris Valley RWRf plant 2	33°45'19"N	117°11'39"W
	M-005	Effluent monitoring at Sun City RWRf	33°41'45"N	117°12'38"W
	M-006	Effluent monitoring at Temecula Valley RWRf	33°30'19"N	117°10'05"W
	M-007	Effluent monitoring at Santa Rosa WRF	33°31'54"N	117°11'18"W

ii. Receiving Water Sampling Locations

The receiving water sampling locations are included in Table 2 as well as shown in Figure 1. Figure 1 shows the discharge monitoring location to Temescal Creek as M-001 with the downstream monitoring locations as R-001D. There are two upstream monitoring locations for the receiving water, Temescal Creek from Lake Elsinore (R-001UA) and Wasson Canyon stormwater channel (R-001UB).

Table 2. Receiving Water Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description	Latitude	Longitude
--	R-001UA	Receiving surface water – within 100 feet upstream of M001 in Temescal Creek, when there is flowing water from Lake Elsinore	33°40'50"N	117°19'53"W
--	R-001UB	Receiving surface water – within 100 feet upstream of M001 in Wasson Canyon, when there is flowing water from Wasson Canyon stormwater channel	33°40'54"N	117°19'53"W

Table 2. Receiving Water Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description	Latitude	Longitude
--	R-001D	Receiving surface water – within 500 feet downstream of M001 in Temescal Creek	33°40'50"N	117°20'00"W

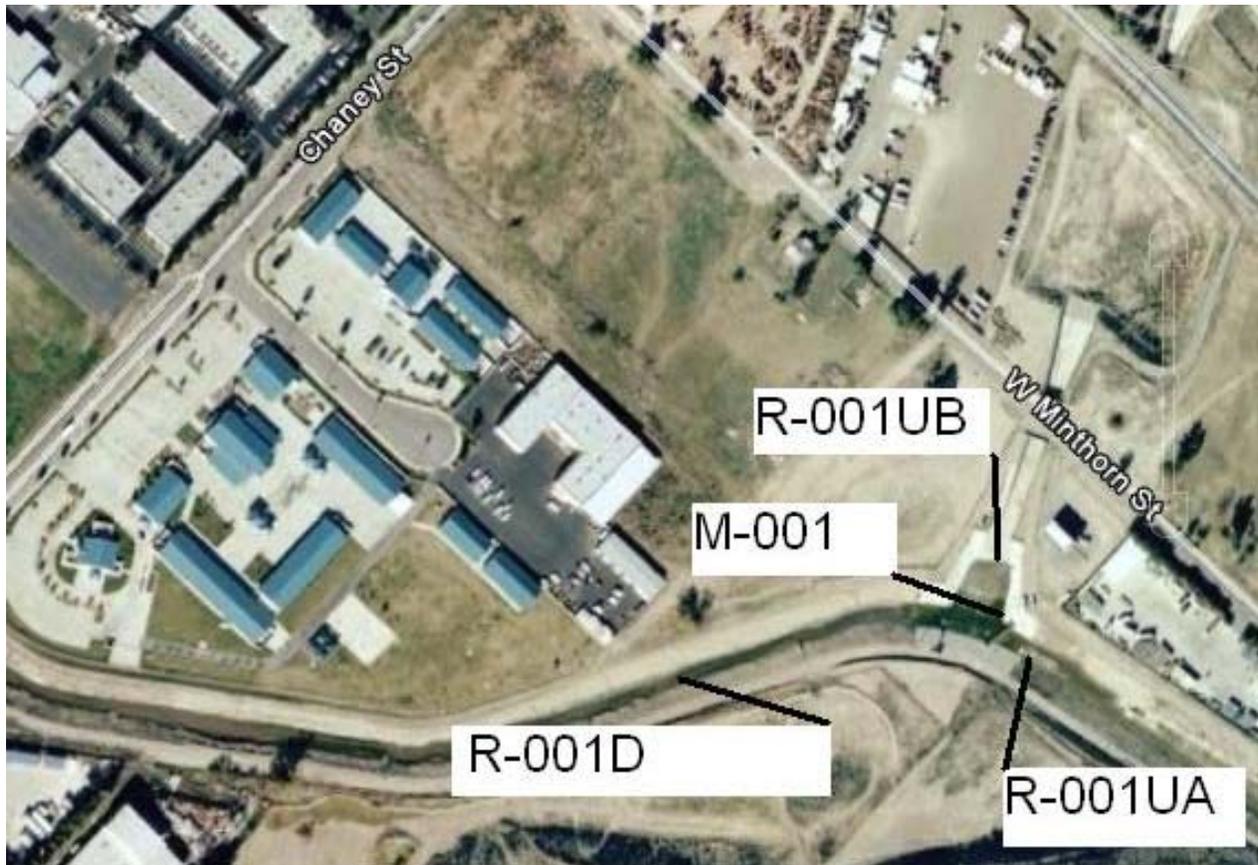


Figure 1. Temescal Creek Discharge

b. Sampling and Monitoring Requirements

All sampling, sample preservation, holding-time and test methods will be conducted in accordance with the current approved edition of “Standard Methods for the Examination of Water Wastewater”, 40 CFR Part 136 approved methods and/or approved methods by the Executive Officer of the Regional Board.

i. Tertiary Effluent Monitoring Requirements

Effluent sampling will be conducted at the discharge location described in Table 1. Again, the effluent location at Sun City RWRf, M-005, is currently not active due to the facility being offline. Table 3 is a summary of the discharge requirements for sampling and monitoring at M-001. Table 4 is a summary of the wastewater treatment plants effluent requirements for sampling and monitoring at M-002 to M-007.

Table 3. Tertiary Effluent Discharge Sampling and Monitoring for M-001

Parameter	Effluent Limit	Units	Sample Type	Frequency
Flow	52.5 mgd Avg. Mo.; 58 mgd Max. Daily	mgd	Recorder/ Totalizer	Continuous
Specific Conductance		µmhos/cm	Recorder	Continuous
pH	6.5 to 8.5 (< 60 Min. ¹)	units	Recorder	Continuous
Total Chlorine Residual	0.1 mg/L < 30 Min. ² ; 5 mg/L Max.	mg/L	Recorder	Continuous
Biochemical Oxygen Demand (BOD ₅)	20 mg/L Avg. Mo.; 30 mg/L Avg. Wk.	mg/L	Composite	Daily
Total Suspended Solids (TSS)	20 mg/L Avg. Mo.; 30 mg/L Avg. Wk.	mg/L	Composite	Daily
Ammonia-Nitrogen	4.5 mg/L Avg. Mo.	mg/L	Grab	Weekly
Temperature		°C	Grab	Weekly
Total Dissolved Solids	650 mg/L & 233,103 lbs/day 12-Mo. Weighted Avg. ³	mg/L (lbs/day)	Composite	Monthly
Total Inorganic Nitrogen	10 mg/L & 3,586 lbs/day 12-Mo. Weighted Avg.	mg/L	Composite	Monthly
Total Nitrogen		mg/L	Composite	Monthly
Cyanide, free	4.7 µg/L Avg. Mo.; 7.2 Max. Daily	µg/L	Grab	Monthly
Total Recoverable Selenium	4.1 µg/L Avg. Mo.; 8.2 µg/L Max. Daily	µg/L	Composite	Monthly
Toxicity	>1.0 TUC increase to wkly ⁴	TUC	Composite ⁵	Monthly
Bis(2-Ethylhexyl) Phthalate		µg/L	Composite	Monthly
Dichlorobromomethane	46 µg/L Avg. Mo.; 87 µg/L Max. Daily	µg/L	Composite	Monthly
Total Hardness		mg/L	Composite	Monthly
Bicarbonate		mg/L	Composite	Monthly
Boron		mg/L	Composite	Monthly
Calcium		mg/L	Composite	Monthly
Carbonate		mg/L	Composite	Monthly
Chloride		mg/L	Composite	Monthly
Fluoride		mg/L	Composite	Monthly
Magnesium		mg/L	Composite	Monthly
Sodium		mg/L	Composite	Monthly
Sulfate		mg/L	Composite	Monthly

Table 3. Tertiary Effluent Discharge Sampling and Monitoring for M-001

Parameter	Effluent Limit	Units	Sample Type	Frequency
Total Recoverable Cadmium		µg/L	Composite	Monthly
Total Chromium	>11 µg/L following sample test for Cr VI	µg/L	Composite	Monthly
Total Recoverable Lead		µg/L	Composite	Monthly
Total Recoverable Mercury	0.051 µg/L Avg. Mo.; 0.103 µg/L Max. Daily	µg/L	Composite	Monthly
Total Recoverable Silver		µg/L	Composite	Monthly
Total Recoverable Zinc		µg/L	Composite	Monthly
Total Recoverable Copper		µg/L	Composite	Monthly
Aluminum		mg/L	Composite	Quarterly
Antimony		mg/L	Composite	Quarterly
Arsenic		µg/L	Composite	Quarterly
Barium		µg/L	Composite	Quarterly
Cobalt		µg/L	Composite	Quarterly
Total Recoverable Nickel		µg/L	Composite	Quarterly
Priority Pollutant (Attachment G) - VOC	Detected (Attachment I) = Qtrly Monitoring	µg/L	Grab	Annually
Priority Pollutant (Attachment G) - Remaining	Detected (Attachment I) = Qtrly Monitoring	µg/L	Composite	Annually

¹ pH limit not to exceed 7 hours and 26 minutes in any calendar month.

² Cl₂ Residual not to exceed 0.1 mg/L more than 7 hours and 26 minutes in any calendar month.

³ or 12-Mo. Weighted Avg. (Source Wtr) + 250 mg/L (whichever is lower).

⁴ > 1.0 TUC for 2 Mo. Median or 1.7 TUC implement IITRE work plan.

⁵ representative composite samples

Table 4. Tertiary Effluent Sampling and Monitoring for M-002 to M-007

Parameter	Effluent Limit	Units	Sample Type	Frequency
Turbidity	2 NTU Avg. Daily; 10 NTU Max. Daily ⁶	NTU	Recorder	Continuous
Coliform Organisms	2.2 MPN/100mL 7-Day Median, 240 Max. Daily ⁷	MPN/100mL	Grab	Daily
CT	450 mg/L-min Minimum	mg/L-min	Calculation	Continuous
BOD ₅ Percent Removal	85% BOD ₅ Inf. to Eff. Reduction (Avg. Mo.)	%	Calculation	Monthly
TSS Percent Removal	85% TSS Inf. to Eff. Reduction (Avg. Mo.)	%	Calculation	Monthly

⁶ Turbidity not to exceed 5 NTU more than 5 percent of the time in any 24-hour period.

⁷ Total coliform organism shall not exceed 23 MPN/100mL more than one sample in any 30 day period.

ii. Secondary Effluent Monitoring Requirements

Secondary effluent may be discharged when the receiving water flow can accommodate a 20:1 dilution, typically during extremely wet seasons. The sample locations will still be the same for secondary effluent monitoring as listed in Table 1. When secondary effluent discharges occur, Table 5 shows the sampling and monitoring requirements for the discharge at M-001. In addition, Table 6 shows the wastewater treatment plants effluent sampling and monitoring requirements at M-002 to M-007.

Table 5. Secondary Effluent Discharge Sampling and Monitoring for M-001

Parameter	Effluent Limit	Units	Sample Type	Frequency
Flow	52.5 mgd Avg. Mo.; 58 mgd Max. Daily	mgd	Recorder/ Totalizer	Continuous
pH	6.5 to 8.5 (< 60 Min. ⁸)	units	Recorder	Continuous
Total Chlorine Residual	> 2.1 mg/L < 30 Min. ⁹ ; 10.5 mg/L Max.	mg/L	Recorder	Continuous
Biochemical Oxygen Demand (BOD ₅)	30 mg/L Avg. Mo.; 45 mg/L Avg. Wk.	mg/L	Grab	Daily
Total Suspended Solids	30 mg/L Avg. Mo.; 45 mg/L Avg. Wk.	mg/L	Grab	Daily
Total Hardness		mg/L	Grab	
EPA Priority Pollutants		µg/L	Grab	Annually ¹⁰

⁸ pH limit not to exceed 7 hours and 26 minutes in any calendar month.

⁹ Cl₂ Residual not to exceed 2.1 mg/L more than 7 hours and 26 minutes in any calendar month.

¹⁰ Within the 1st 30 days of discharge.

Table 6. Secondary Effluent Sampling and Monitoring for M-002 to M-007

Parameter	Effluent Limit	Units	Sample Type	Frequency
Coliform Organisms	23 MPN/100mL 7-day Median	MPN/ 100mL	Grab	Daily
BOD Percent Removal	85% BOD Inf. to Eff. Reduction (Avg. Mo.)	%	Calculation	Monthly
TSS Percent Removal	85% TSS Inf. to Eff. Reduction (Avg. Mo.)	%	Calculation	Monthly

iii. Receiving Water Monitoring Requirements

Receiving Water sampling will be conducted at the location described in Table 2. Table 7 shows the monitoring requirements for the upstream receiving water locations, R-001UA and R-001UB. Table 8 shows the downstream receiving water monitoring requirements for the sample location R-001D.

Table 7. Upstream Receiving Water Monitoring for R-001UA and R001UB

Parameter	Units	Sample Type	Frequency
Flow	mgd	Estimated	Weekly
Dissolved Oxygen	mg/L	Grab	Weekly
Temperature	°C	Grab	Weekly
pH	Units	Grab	Weekly
Total Dissolved Solids	mg/L	Grab	Monthly
Total Inorganic Nitrogen	mg/L	Grab	Monthly
Total Hardness	mg/L	Grab	Quarterly

Table 8. Downstream Receiving Water Monitoring for R-001D

Parameter	Receiving Water Limit	Units	Sample Type	Frequency
Dissolved Oxygen	5.0 mg/L Minimum	mg/L	Grab	Weekly
Temperature	26°C (Nov. to May) ¹¹	°C	Grab	Weekly
pH		Units	Grab	Weekly
Color, Foam, & Odor	Nuisance		Observation	Monthly
Total Hardness		mg/L	Grab	Quarterly
Total Suspended Solids		mg/L	Grab	Quarterly
EPA Priority Pollutants		µg/L	Grab	Annually

¹¹ 32 °C (Jun. To Oct.)

c. Compliance Monitoring and Reporting

The Table 9 is the tasks, monitoring schedules, and the associated reporting due dates for NPDES compliance requirements.

Table 9. Compliance Task Requirements

Compliance Task	Monitoring Frequency	Reporting Date	Reference Location	Compliance Determination
Update the SWPPP		October 30, 2008	Page 19 of 31, IV., D., 3. & Page J-1, 1.	Conduct Internal Audit
Implement the SWPPP		December 30, 2009	Page 19 of 31, IV., D., 3. & Page K-1, 1.	Provide Training
Notify Regional Board (RegBrd) for non-compliance		24 hours	Page 20 of 31, VI., A., 2., b.	Phone, E-Mail/Fax, Letter and/or Monthly Self Monitoring Report (SMR)
Submit report to RegBrd of character, volume, or location changes		180 days prior to change	Page 21 of 31, VI., A., 2., g.	Submit Letter to RegBrd
Maintain copy of the permit at discharge site			Page 21 of 31, VI., A., 2., i.,	Conduct Internal Audit

Table 9. Compliance Task Requirements

Compliance Task	Monitoring Frequency	Reporting Date	Reference Location	Compliance Determination
Train operating personnel the permit's requirements			Page 21 of 31, VI., A., 2., i.	Provide Training
Obtain approval from RegBrd for Solids disposal			Page 22 of 31, VI., A., 2., k.	Submit Letter to RegBrd
Notify RegBrd of Hg Study participation		June 1, 2009	Page 23 of 31, VI., C., 2., a.	Submit Letter to RegBrd
Develop Initial Investigation TRE work plan			Page 24 of 31, VI., C., 2., b., 1)	Conduct Internal Audit
Submit to RegBrd proposed TDS/TIN Offset Program and Schedule		January 1, 2010	Page 25 of 31, VI., C., 2., c.	Submit Letter to RegBrd
Submit report for approval to RegBrd detailing the sampling, monitoring and reporting		July 1, 2009	Page 25 of 31, VI., C., 2., d.	Submit Letter to RegBrd
Develop and Conduct PMP when listed pollutant detected	Quarterly, Semi-Annual & Annual	April 1 st	Page 25 & 26 of 31, VI., C., 3., a.	Conduct Internal Audit and Submit Annual (Pretreatment) Report to RegBrd
Update Treatment Plant O&M Manual		As necessary or with each expansion.	Page 26 of 31, VI., C., 4., c.	Conduct Internal Audit
Maintain copy of O&M Manual on-site			Page 26 of 31, VI., C., 4., c.	Conduct Internal Audit
Update and implement Lab QA/QC Plan			Page E-2, I., A., 5.	Conduct Internal Audit
Maintain Records	5 Years		Page E-3, I., A., 7.	Conduct Internal Audit & SOP
Calibrate flow measurement device	At least once a year		Page E-3, I., A., 8.	Conduct Internal Audit & SOP
Submit approved plan Fish Flesh Testing report to RegBrd		As stipulated in approved plan	Page E-13, VIII., D.	
Submit report to RegBrd of the Offset TDS/TIN Program	Quarterly	February 1 st , May 1 st , August 1 st , & November 1 st	Page E-13, IX., E.	Submit Monthly SMR to RegBrd
Submit to RegBrd rosters of Recycled Water Ops & Treatment Plants	Semi-Annual (June & December Reports)	February 1 st & August 1 st	Page E-15 X., A., 10.	Submit Monthly SMR to RegBrd
Submit SMR to RegBrd	Continuous, Daily, Monthly, Quarterly & Annual	1 st day of the 2 nd month following the reporting period (unless specified)	Pages E-5 to E-9, IV., A. & B.; Pages E-16 to E-18, X., B., 1. to 6	Submit Monthly SMR to RegBrd

Table 9. Compliance Task Requirements

Compliance Task	Monitoring Frequency	Reporting Date	Reference Location	Compliance Determination
Submit annual report of monitoring data (SMR) to RegBrd	Annual	April 1 st	Page E-17, X, B., 3., Table 9; Page E-18, X., B., 7	Submit Annual (Pretreatment) Report to RegBrd
Submit Discharge Monitoring Report (DMR) to SWRCB	Continuous, Daily, Monthly, Quarterly & Annual	1 st day of the 2 nd month following the reporting period (unless specified)	Pages E-5 to E-9, IV., A., & B.; Pages E-19, X., C.	Submit Monthly and Annual DMR to RegBrd & SWRCB
Submit annual Stormwater Report to RegBrd	Annual	July 1 st	Page K-9, 12.	Submit Annual Report to RegBrd

3. Self Monitoring Reports

The Self Monitoring Report (SMR) summarizes the monthly activities for the Temescal Discharge and this report is submitted to the Santa Ana Regional Water Quality Control Board (RWQCB). A complete example of the Self Monitoring Report can be found in Appendix A. The SMR includes a cover letter which summarizes the compliance issues including excursions of discharge limits, reason for the excursions, and corrective actions and schedule to returning back into compliance.

The cover letter will be followed by a summarized form with the limits and required monitoring including authorized signature per page. The current forms will utilize the EPA DMR form (EPA Form 3320-1) but results entered will be in the format as required within the Order. EMWD intends to have a reporting program to automatically create the reporting form for both the SMR to the Santa Ana RWQCB and Discharge Monitoring Report required by the State Water Resource Control Board (SWRCB). When the automatic reporting program is functional, EMWD will submit the reporting format to the Santa Ana RWQCB for approval. In Figure 2 is an example of the EPA DMR report format that will be submitted.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: EASTERN MUNICIPAL WATER DIST
ADDRESS: Mailing: P.O. Box 8300, Perris CA 92572-8300
Physical: 2270 Trumble Rd., Perris CA 92570
FACILITY: EMWD TEMESCAL CREEK DISCHARGE
LOCATION: 636 Minthorn St.
Lake Elsinore, CA 92530
ATTN: Al Javier

CAB000188	01AA
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 92572
MAJOR (SUBR 08)
DISCHARGE 001: DILUTION<20:1
External Outfall

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 05/01/2009	TO 05/31/2009

No Discharge C

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Turbidity 00070 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	2 DAILY AV	10 INST MAX	NTU		Continuous	RCORDR
Specific conductance 00095 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	umho/cm		Continuous	RCORDR
BOD, 5-day, 20 deg. C 00310 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	lb/d	*****	20 MO AVG	30 HI WK AV	mg/L		Daily	COMPOS
pH 00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	6.5 MINIMUM	8.5 MAXIMUM	SU		Continuous	RCORDR
Bicarbonate ion- (as HCO3) 00440 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****		Req. Mon. DAILY MX	mg/L		Monthly	COMP24
Carbonate ion- (as CO3) 00445 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****		Req. Mon. DAILY MX	mg/L		Monthly	COMP24
Solids, total suspended 00530 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	lb/d	*****	20 MO AVG	30 HI WK AV	mg/L		Daily	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Anthony Pack, General Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
		951	928-3777	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
WHEN DILUTION IS <20:1, USE THESE (DISCHARGE 01A A) FORMS; WHEN DILUTION IS ≥20:1, USE THE 01A B FORMS. TDS: REPORT ONLY FOR CONTROLLING LIMIT (EFFLUENT OR INCREASE - SEE PERMIT SEC A.1.C); MAR
EPA Form 3320-1 (Rev 01/06) Previous editions may be used. Page 1

Figure 2. EPA Form

Following the cover letter and summarized form, supporting tables and documents will be attached. The supporting table will be comprised of daily SCADA information and laboratory results, and supporting calculations. The daily SCADA information is comprised of the continuous monitoring at the discharge such as flow, EC, pH and Chlorine Residual. The daily/weekly laboratory results are BOD₅, TSS, and Ammonia Nitrogen, and supporting calculations are the 12-month flow weighted average for TDS and TIN and Source Water TDS Water Quality. The supporting documents are the laboratory reports as well as any special reports mentioned in the cover letter.

4. Discharge Monitoring Report

The discharge monitoring report (DMR) also summarizes the monthly activities for the Temescal Discharge and submits this report to both the Santa Ana RWQCB and SWRCB. The DMR is practically the same report as the SMR except that the EPA DMR form (EPA Form 3320-1) is used and results entered follow the CIWQS

guidelines. The cover letter and the supporting tables and documents are also attached to the DMR.

5. Annual (Pretreatment) Report

The annual report, which includes the annual pretreatment report, summarizes the RWRFs influent flow characteristics and effluent discharges in a tabular and graphical form, including the NPDES discharge. In addition, the annual report describes the pretreatment activities throughout the year. The annual report describes non-complaint issues for both the RWRFs and pretreatment program, the cause of the non-complaint, and the resolution for compliance. The report is due on April 1st of each year. The upcoming format for this coming year will not change compared to past reports. An example of the annual report is NOT included with this report but is available upon request.

6. Storm Water Annual Report

By July 1st of each year, the annual storm water report will be submitted to the Santa Ana RWQCB for each of the wastewater treatment plants. The report summarizes storm water activities throughout the year for each wastewater treatment plant. The report format used is generated by the SWRCB either in PDF or Word. An example of the annual report is NOT included with this report but is available upon request.

7. TDS/TIN Mitigation and Offset Program

Currently, EMWD is in-process in developing a TDS/TIN Mitigation and Offset Program for the Temescal Discharge as required by the Order. The TDS/TIN Mitigation and Offset Program is due to be submitted to the Regional Board by January 1, 2010. Therefore, the quarterly reporting program is still being developed.

Appendix A

Self Monitoring Report Example