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Date: 5/4/01 9:23AM

most recent and historical swq

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*DWR
elec. file*

From: Keri Cole
To: garyg@water.ca.gov
Date: 5/4/01 1:36PM
Subject: Monitoring Data

Hi Gary .

Linda Pardy, in our office, recently forwarded me some monitoring data for the Santa Margarita River, San Diego River and Escondido Creek (see attached file). I have been unsuccessful in determining the dates of the sampling. Can you help me out? I am also interested in finding out exactly where the sampling stations are. Can you provide this to me? Do you have a map of the sampling locations? What is the frequency of this data? What purposes is it used for on your end?

The reason I am asking all of this is because we are currently soliciting for additional information and data that may support updates to our 303d list of impaired waterbodies in the region (see attached correspondence). I would be interested in looking at this monitoring data from July 1997 if it is available?

Thanks in advance for your assistance.

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>>> "Gary Gilbreath" <garyg@water.ca.gov> 05/04/01 09:16AM >>>
most recent and historical swq

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ORDER NO. 98-10
NPDES NO. CA0108944

WASTE DISCHARGE REQUIREMENTS
FOR THE
CITY OF ESCONDIDO
HALE AVENUE RESOURCE RECOVERY FACILITY

INTERMITTENT WET WEATHER DISCHARGE
TO
ESCONDIDO CREEK
SAN DIEGO COUNTY

The California Regional Water Quality Control Board San Diego Region
(hereinafter Regional Board), finds that:

1. On November 10, 1994 this Regional Board adopted "Order No. 94-104, NPDES No. CA0107981, Waste Discharge Requirements for the City of Escondido Hale Avenue Resource Recovery Facility. Discharge to the Pacific Ocean via the San Elijo Ocean Outfall." Order No. 94-104, which superceded Order No. 88-04, established requirements for the discharge of up to 16.5 million gallons per day (MGD) of secondary treated wastewater to the Pacific Ocean via the Escondido Land Outfall and the San Elijo Ocean Outfall.
2. On June 13, 1996, this Regional Board issued, "Cease and Desist Order No. 96-31 for the City of Escondido," for discharging secondary effluent to Escondido Creek during periods of sustained or significant rainfall in violation of the Federal Clean Water Act. Order No. 96-31 required the City either to pursue a strategy to increase the capacity of the San Elijo Ocean Outfall or to seek authorization for discharges of treated wastewater to Escondido Creek.
3. On June 19, 1997, the City submitted a Report of Waste Discharge (RWD) for the Hale Avenue Regional Reclamation Facility (HARRF) to discharge up to 9 MGD of tertiary treated recycled water to Escondido Creek during periods when significant precipitation causes the discharge to exceed the capacity of the San Elijo Ocean Outfall. After additional information was submitted on September 30, 1997, the application was considered complete.

Escondido Creek

Discharge monitoring report in
Compliance of order 98-18

see ~~Characteristics~~ for file
Jimmy

[illegible]

			Detection Limit		0.14	0.20	0.01	0.1	0.02	5.0		10.0		0.10	0.25	0.15	0.56	1.0	40.0	1.0		0.005	0.0
Sampling Date	Station Name	Station ID	Hydrologic Subarea	Station Location	Ammonia-N	Nitrate as N	Nitrite-N	Total Kjeldahl Nitrogen	Orthophosphate-P	Total Phosphate as P (revised)	Total Phosphate as PO ₄	Total Dissolved Solids	Turbidity NTU	Calcium	Sodium	Magnesium	Potassium	Chloride	Sulfate	Total Hardness	Ec. umhos	Antimony	Arsenic
6/9/98	RC-WGR	DFG-978-321		Rainbow Creek at Willow Glen Rd	<.14	11.47	0.02	0.44	0.95	0.77		810	0.30										
6/9/98	SMR-WGR	DFG-978-322		Santa Margarita at Willow Glen Rd (Stage Coach Ln).	<.14	3.76	0.02	0.47	0.11	0.62		913	0.46										
6/9/98	SMR-SCD	DFG-978-323		SMR at DeLuz/ Pico Rd near Sandia Ck	<.14	4.69	0.01	0.34	0.18	0.35		923	0.50										
6/9/98	SC-SCR	DFG-978-324		Sandia Ck at Sandia Ck Rd, 0.5 to 1 mile above confluence	<.14	5.83	0.01	0.17	0.24	0.30		817	1.80									ND	7.8
6/9/98	SMR-CP	DFG-978-325		Santa Margarita River below diversion weir on Camp Pendleton	<.14	2.71	0.01	0.34	0.23	0.41		667	3.77									ND	5.9
6/9/98	SMR-SMB	DFG-978-326		SMR at Stuart Mesa Rd bridge on Camp Pendleton	<.14	1.63	0.01	0.28	0.23	0.35		713	3.60									ND	2.3
6/10/98	BVR-ED	DFG-978-327		San Marcos Creek at Rancheros Drive	<.14	14.70	0.05	0.53	0.14	0.95		1372	0.49										
6/10/98	AHC-SA	DFG-978-328		Agua Hedionda Ck at Sycamore Ave	0.17	15.30	0.08	0.58	1.00	0.90		1144	1.10										
6/10/98	SMC-SP	DFG-978-329		Buena Vista Ck at Wildwood Park	0.23	3.40	0.09	0.62	0.12	0.75		1360	1.70										
6/10/98	AC-CCR	DFG-978-330		Aliso Ck along Country Club Rd	3.30	3.10	1.00	0.81	1.10	0.93		1712	4.10									ND	1.2
6/10/98	AC-PPD	DFG-978-331		Aliso Ck at Pacific Park Dr/ Oso Pkwy	0.18	1.00	0.03	0.56	0.15	0.81		1961	1.10										
6/10/98	AHC-ECR	DFG-978-332		Agua Hedionda Ck at El Camino Real	<.14	5.80	0.02	0.53	0.44	0.61		1716	0.55	These are									
6/11/98	SLRR-395	DFG-978-333		San Luis Rey River at old Hwy 395 (Couser Canyon Rd)	<.14	4.20	0.03	0.42	0.75	0.99		970	3.73										
6/29/98		LLP-978-405-BUV		Buena Vista Creek	<.14	1.20	0.02	0.64	0.83		7.1	1133	1.3	120	254	80.7	3.6	454	281	570	1965	ND	ND
6/29/98		LLP-978-405-AGH		Agua Hedionda Creek	<.14	4.50	0.03	0.76	0.25		4.2	1624	0.6	168	255	97.9	3.3	465	363	745	2300	ND	ND
6/29/98		LLP-978-405-ESC		Escondido Creek	<.14	3.60	0.01	0.76	0.25		4.6	1382	4.4	109	251	87.5	3.4	322	342	570	1969	ND	ND

[illegible]

Detection Limit	Hydrologic Subarea	Station Location	Beryllium	Cadmium	Chromium, Total	Chromium, Dissolved	Copper	Lead, Total	Lead, Dissolved	Mercury	Nickel	Selenium	Silver	Thallium	Zinc, Total	Zinc, Dissolved	Ceriodaphnia-survival	Ceriodaphnia-reproduction	Pimephales-survival	Pimephales-growth
		Rainbow Creek at Willow Glen Rd																		
		Santa Margarita at Willow Glen Rd (Stage Coach Ln).																		
		SMR at DeLuz/ Pico Rd near Sandia Ck																		
		Sandia Ck at Sandia Ck Rd, 0.5 to 1 mile above confluence	ND	ND	17.0		20.0	1.7		ND	7.7	ND	ND	ND	26.2					
		Santa Margarita River below diversion weir on Camp Pendleton	ND	ND	5.7		4.0	6.7		ND	2.8	ND	ND	1.5	24.3					
		SMR at Stuart Mesa Rd bridge on Camp Pendleton	ND	0.44	14.7		9.1	12.3		ND	5.5	ND	ND	ND	81.1					
		San Marcos Creek at Rancheros Drive																		
		Agua Hedionda Ck at Sycamore Ave																		
		Buena Vista Ck at Wildwood Park																		
		Aliso Ck along Country Club Rd	ND	ND	7.6		2.2	ND		ND	3.4	ND	ND	1.2	16.0					
		Aliso Ck at Pacific Park Dr/ Oso Pkwy																		
		Agua Hedionda Ck at El Camino Real																		
		San Luis Rey River at old Hwy 395 (Couser Canyon Rd)	are in units of milligrams per liter.																	
		Buena Vista Creek	ND	ND	0.0	0.01	ND	ND	ND	ND	ND	ND	ND	ND	0.04	0.02	No Difference			
		Agua Hedionda Creek	ND	ND	0.0	0.01	ND	ND	ND	ND	ND	ND	ND	ND	0.03	0.02	No Difference			
		Escondido Creek	ND	ND	0.0	0.01	ND	ND	0.002	ND	ND	ND	ND	ND	0.06	0.04	No Difference			

OK

Lab_Smp_No	STA_NUM	StationName	FLIMS_Sample_No	TYPE_W	COUNTY	TIME	SAMP_C	*FLD Cloud Cover	FLD_EC (μS/cm)	DISS_O (mg/L)
	V9209500	MOJAVE R BL FORKS	LRA0400B0444	S	36	1030	5050	0	249	8.8
	V9209500	MOJAVE R BL FORKS	LRA1100B4998	S	36	1015	5050	25	376	9.3
	X2135000	S M R NR FLBRK	LRA0500B0483	S		37 1015	5050	100	1405	8.6
	X2135000	S M R NR FLBRK	LRA0599A0147	S		37 0900	5050	100	1238	8.2
LR5986	X2135000	S M R NR FLBRK	LRA0598A0941	S		37 0845	5050	90	648	8.4
2543	X2135000	S M R NR FLBRK	LRA1198A2543	S		37 1000	5050	0	1350	7.1
	X2135000	S M R NR FLBRK	LRA1100B5076	S		37 1030	5050	0	1410	10.5
	X4340005	ESCND0 nr H GRV	LRA0500B0484	S		37 1145	5050	20	1790	7.8
	X4340005	ESCND0 nr H GRV	LRA0599A0148	S		37 1045	5050	0	1787	7.4
LR5987	X4340005	ESCND0 nr H GRV	LRA0598A0942	S		37 1030	5050	80	1225	8.7
2544	X4340005	ESCND0 nr H GRV	LRA1198A2544	S		37 1120	5050	0	1850	8.7
	X4340005	ESCND0 nr H GRV	LRA1100B5077	S		37 1140	5050	0	1844	9.8
	X5123030	SD RVR @ OMD	LRA0500B0487	S		37 1315	5050	0	1906	9.7
	X5123030	SD RVR @ OMD	LRA0599A0151	S		37 1145	5050	0	1957	6
LR5990	X5123030	SD RVR @ OMD	LRA0598A0943	S		37 1200	5050	95	950	5.9
2547	X5123030	SD RVR @ OMD	LRA1198A2547	S		37 1230	5050	0	1600	4.6
	X5123030	SD RVR @ OMD	LRA1100B5080	S		37 1315	5050	0	1372	5.2
	Y2121005	CHINO CREEK	LRA0500B0481	S		36 0800	5050	100	895	6.7
	Y2121005	CHINO CREEK	LRA0599A0145	S		36 0545	5050	0	850	7

Lab_Smp_No	STA_NUM	StationName	FLOW (cfs)	FLD_PH	DEGREE	DEG_TY	*FLD Wind Velocity (mph)	DATE	HARD (mg/L)
	V9209500	MOJAVE R BL FORKS	10	8	64	F	3	05/11/00	71
	V9209500	MOJAVE R BL FORKS	15	8	56	F	3	11/06/00	111
	X2135000	S M R NR FLBRK	20	8	68	F	3	05/10/00	439
	X2135000	S M R NR FLBRK	30	7.6	64	F	0	05/12/99	402
LR5986	X2135000	S M R NR FLBRK		7.2	62	F	1	05/14/98	190
2543	X2135000	S M R NR FLBRK	30	8	56	F	3	11/12/98	473
	X2135000	S M R NR FLBRK	25	7.9	53	F	3	11/15/00	491
	X4340005	ESCND0 nr H GRV	10	8	71	F	2	05/10/00	401
	X4340005	ESCND0 nr H GRV	20	8	64	F	0	05/12/99	423
LR5987	X4340005	ESCND0 nr H GRV		7.6	58	F	0	05/14/98	
2544	X4340005	ESCND0 nr H GRV	15	8	56	F	2	11/12/98	505
	X4340005	ESCND0 nr H GRV	20	7.9	52	F	3	11/15/00	555
	X5123030	SD RVR @ OMD	15	7.8	78	F	3	05/10/00	465
	X5123030	SD RVR @ OMD	25	7.6	68	F	3	05/12/99	488
LR5990	X5123030	SD RVR @ OMD		7	62	F	3	05/14/98	
2547	X5123030	SD RVR @ OMD	25	7.1	58	F	3	11/12/98	400
	X5123030	SD RVR @ OMD	20	7.2	52	F	3	11/15/00	338
	Y2121005	CHINO CREEK	35	7.2	72	F	2	05/10/00	211
	Y2121005	CHINO CREEK	20	7	68	F	3	05/12/99	201

Lab_Smp_No	STA_NUM	StationName	Total Alkalinity as CaCO3 (mg/L)	CL (mg/L)	LAB_EC (μS/cm)	B (mg/L)	CA (mg/L)	MG (mg/L)	NO3 (mg/L)
	V9209500	MOJAVE R BL FORKS	88.3	14	269	0	20	5	0
	V9209500	MOJAVE R BL FORKS	145	12	434	0.1	33	7	0.3
	X2135000	S M R NR FLBRK	172	195	1440	0.1	95	49	10
	X2135000	S M R NR FLBRK	186	162	1310	0.2	90	43	6.2
LR5986	X2135000	S M R NR FLBRK	108	79	670	0.141	43.8	19.5	8.9
2543	X2135000	S M R NR FLBRK	180	184	1400	0.1	107	50	19
	X2135000	S M R NR FLBRK	178		1450	0.2	111	52	12
	X4340005	ESCND0 nr H GRV	203.4	259	1850	0.2	60	61	21
	X4340005	ESCND0 nr H GRV	215	250	1810	0.2	64	64	26
LR5987	X4340005	ESCND0 nr H GRV		166	1320		71.6	42.6	
2544	X4340005	ESCND0 nr H GRV	300	259	1960	0.2	95	65	40
	X4340005	ESCND0 nr H GRV	282		1970	0.2	100	74	34
	X5123030	SD RVR @ OMD		347	2030		89	59	
	X5123030	SD RVR @ OMD		338	2020		95	61	
LR5990	X5123030	SD RVR @ OMD		138	980		54.1	29.7	
2547	X5123030	SD RVR @ OMD		273	1640		81	48	
	X5123030	SD RVR @ OMD			1400		70.91	39.15	
	Y2121005	CHINO CREEK		108	923		53	19	
	Y2121005	CHINO CREEK		91	849		54	16	

Lab_Smp_No	STA_NUM	StationName	K (mg/L)	Dissolved Ortho-phosphate	NA (mg/L)	SO4 (mg/L)	Ortho-phosphate	LAB_PH	*FLD Discharge (cfs)
	V9209500	MOJAVE R BL FORKS	1.3		26	21		7.65	
	V9209500	MOJAVE R BL FORKS	3		53	56		8.2	
	X2135000	S M R NR FLBRK	2.8		113	274		8.14	
	X2135000	S M R NR FLBRK	2.5		114	234		7.8	
LR5986	X2135000	S M R NR FLBRK	4.43			95		8.2	70
2543	X2135000	S M R NR FLBRK	3.6		101	258		7.8	
	X2135000	S M R NR FLBRK	3.7		122	268		8.2	
	X4340005	ESCND0 nr H GRV	2.5		211	337	0	8.179	
	X4340005	ESCND0 nr H GRV	1.8		230	307	0.061	8	
LR5987	X4340005	ESCND0 nr H GRV		0.12		209	0.02		35
2544	X4340005	ESCND0 nr H GRV	2.4		217	325	0.11	7.9	
	X4340005	ESCND0 nr H GRV	4.5		220	344	0.08	8.3	
	X5123030	SD RVR @ OMD				278			
	X5123030	SD RVR @ OMD				282			
LR5990	X5123030	SD RVR @ OMD				126			35
2547	X5123030	SD RVR @ OMD				225			
	X5123030	SD RVR @ OMD				184			
	Y2121005	CHINO CREEK				125			
	Y2121005	CHINO CREEK				106			

Lab_Smp_No	STA_NUM	StationName	GAGE_H (ft)	*FLD Odor	Dissolved Chloride	Dissolved Fluoride	Dissolved Sodium	TDS (mg/L)	TURB (N.T.U.)
	V9209500	MOJAVE R BL FORKS			1	166		0	
	V9209500	MOJAVE R BL FORKS		0		3.46		274	11.9
	X2135000	S M R NR FLBRK			0.3	932		4.5	
	X2135000	S M R NR FLBRK			0.3	812		0	
LR5986	X2135000	S M R NR FLBRK	0			0.2	74.5	405	271
2543	X2135000	S M R NR FLBRK	30		0.3			893	5.5
	X2135000	S M R NR FLBRK		0	205	0.3		935	2.8
	X4340005	ESCND0 nr H GRV			0.4	1150		2.2	
	X4340005	ESCND0 nr H GRV			0.4	1117		0	
LR5987	X4340005	ESCND0 nr H GRV	0					915	22.4
2544	X4340005	ESCND0 nr H GRV	0		0.4			1260	2.2
	X4340005	ESCND0 nr H GRV		0	271	0.5		1260	0
	X5123030	SD RVR @ OMD				1250		2.1	
	X5123030	SD RVR @ OMD				1212		4.5	
LR5990	X5123030	SD RVR @ OMD	0						
2547	X5123030	SD RVR @ OMD	0					983	0
	X5123030	SD RVR @ OMD	0	0	245			840	2.2
	Y2121005	CHINO CREEK				555		2.4	
	Y2121005	CHINO CREEK				518		2	

Table 1
Toxic Substances Monitoring Program
Preliminary Summary of 1999 Data: Trace Elements in Fish and Clams (ppm, wet weight)

Station Number	Station Name	Species Code	Tissue	Sample Date	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Zinc
801.11.89	Lower Newport Bay/Rhine Ch	YFC	L	08/10/99	NA	NA	0.089	5.3300	0.1290	NA	NA	NA	0.0060	23.90
801.11.96	Peters Canyon Channel	PRS	W	08/05/99	0.179	0.0350	0.121	1.2300	0.0300	0.048	0.1370	4.110	<0.0020	45.80
801.11.96	Peters Canyon Channel	PRS	W	08/05/99	0.190	0.0360	0.171	1.2900	0.0380	0.040	0.1390	4.240	0.0030	44.70
801.11.99	Upper Newport Bay/Newport Dunes	ORC	F	08/04/99	1.300	<0.0020	NA	NA	NA	0.050	0.0170	0.760	NA	NA
801.11.99	Upper Newport Bay/Newport Dunes	ORC	L	08/04/99	NA	NA	0.088	6.2600	0.0080	NA	NA	NA	<0.0020	18.40
901.12.##	Aliso Cr/Pacific Park Dr	PRS	W	08/27/99	0.245	0.2240	0.110	1.3000	0.0710	<0.015	0.1950	1.610	<0.0020	32.50
902.11.01	Santa Margarita R/Stuart Mesa Rd	CKF	W	08/25/99	0.221	0.0050	0.050	1.1200	0.0320	<0.015	0.1900	0.248	0.0270	28.30
902.22.03	Rainbow Creek	GSF	F	08/26/99	0.031	<0.0020	NA	NA	NA	0.051	0.0080	0.388	NA	NA
902.22.03	Rainbow Creek	GSF	L	08/26/99	NA	NA	0.067	2.4500	0.0100	NA	NA	NA	<0.0020	16.70
902.32.##	Murrietta Cr/u/s Temecula Cr	BLB	F	08/26/99	0.036	<0.0020	NA	NA	NA	0.059	0.0370	0.287	NA	NA
902.32.##	Murrietta Cr/u/s Temecula Cr	BLB	L	08/26/99	NA	NA	0.100	9.2500	0.0070	NA	NA	NA	0.0290	19.20
904.10.##	Loma Alta Cr/College Blvd	GAM	W	08/26/99	0.217	0.0220	0.236	3.6900	0.0770	0.061	0.1990	0.371	0.0340	37.70
904.21.02	Buena Vista Lagoon	LMB	F	08/25/99	0.072	<0.0020	NA	NA	NA	0.054	0.0100	0.392	NA	NA
904.21.02	Buena Vista Lagoon	LMB	L	08/25/99	NA	NA	0.122	3.8300	0.0210	NA	NA	NA	0.0060	21.90
904.31.##	Agua Hedionda Cr/El Camino Real	GAM	W	08/24/99	0.386	0.0250	0.220	1.3400	0.0380	<0.015	0.1520	0.461	0.0050	25.90
904.51.03	San Marcos Cr	LMB	F	08/24/99	0.045	<0.0020	NA	NA	NA	0.046	0.0230	0.335	NA	NA
904.51.03	San Marcos Cr	LMB	L	08/24/99	NA	NA	0.193	3.0800	<0.0020	NA	NA	NA	<0.0020	16.00
904.61.07	Escondido Cr/Elfin Forest Park	GSF	F	08/24/99	0.064	0.0010	NA	NA	NA	0.050	0.3410	0.496	NA	NA
904.61.07	Escondido Cr/Elfin Forest Park	GSF	L	08/24/99	NA	NA	0.070	2.4400	0.0100	NA	NA	NA	0.0050	17.30
907.11.03	San Diego R/u/s Taylor St	LMB	F	08/23/99	0.096	<0.0020	NA	NA	NA	0.035	0.0150	0.854	NA	NA
907.11.03	San Diego R/u/s Taylor St	LMB	L	08/23/99	NA	NA	0.112	5.9400	0.0130	NA	NA	NA	0.0130	23.10

L = Liver. F = Filet. W = Whole Body. < = Below Indicated Detection Limit. NA = Not Analyzed.

Species codes are listed in Table 3.

TABLE 2
Toxic Substances Monitoring Program
Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

Station Number	Station Name	Species Code	Tissue Type	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
801.11.09	San Diego Cr/Barranca Pkwy	PRS	W	08/05/99	<1.0	<1.0	4.2	<1.0	2.3	2.3	5.7	2.1	16.6	<2.0	<2.0
801.11.89	Lower Newport Bay/Rhine Ch	YFC	F	08/10/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	ND	<2.0	<2.0
801.11.96	Peters Canyon Channel	PRS	W	08/05/99	<1.0	<1.0	3.2	<1.0	2.6	2.9	9.1	1.4	19.3	4.2	<2.0
801.11.96	Peters Canyon Channel	PRS	W	08/05/99	<1.0	<1.0	3.3	<1.0	2.8	3.2	9.8	1.5	20.7	5.2	<2.0
801.11.99	Upper Newport Bay/Newport Dunes	ORC	F	08/04/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	1.9	<1.0	1.9	<2.0	<2.0
901.12.##	Aliso Cr/Pacific Park Dr ✓	PRS	W	08/27/99	<1.0	<1.0	5.4	1.2	2.0	<2.0	5.3	3.6	17.5	4.3	4.1
902.11.01	Santa Margarita R/Stuart Mesa Rd ✓	CKF	W	08/25/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	ND	<2.0	<2.0
902.22.03	Rainbow Creek ✓	GSF	F	08/26/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	ND	<2.0	<2.0
902.32.##	Murrietta Cr/u/s Temecula Cr ✓	BLB	F	08/26/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	2.0	<1.0	2.0	<2.0	<2.0
904.10.##	Loma Alta Cr/College Blvd ✓	GAM	W	08/26/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	1.6	<1.0	1.6	<2.0	<2.0

Station Number	Dieldrin	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	p,p' DDMs	Total DDT	Dicofol	Diazinon	Endo-sulfan I	Endo-sulfan II	Endo-sulfan Sulfate	Total Endo-sulfan	Endrin	Ethion
801.11.09	4.1	3.2	27.0	<2.0	139.0	<3.0	<5.0	8.9	NA	178.1	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
801.11.89	<2.0	<2.0	<2.0	<2.0	22.8	<3.0	<5.0	<3.0	NA	22.8	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
801.11.96	3.3	5.8	24.4	2.7	503.0	<3.0	<5.0	10.9	NA	546.8	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
801.11.96	3.4	5.8	25.8	2.8	516.0	3.1	<5.0	11.4	NA	564.9	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
801.11.99	<2.0	<2.0	6.0	<2.0	54.5	<3.0	<5.0	3.3	NA	63.9	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
901.12.##	8.8	<2.0	<2.0	<2.0	9.4	<3.0	<5.0	<3.0	NA	9.4	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
902.11.01	<2.0	2.6	4.8	<2.0	15.2	<3.0	<5.0	<3.0	NA	22.5	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
902.22.03	<2.0	<2.0	<2.0	<2.0	<2.0	<3.0	<5.0	<3.0	NA	ND	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
902.32.##	<2.0	<2.0	<2.0	<2.0	2.9	<3.0	<5.0	<3.0	NA	2.9	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
904.10.##	<2.0	<2.0	<2.0	<2.0	7.6	<3.0	<5.0	<3.0	NA	7.6	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Total HCH	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Methoxy-chlor	Oxa-diazon	Ethyl Para-thion	Methyl Para-thion	PCB 1248	PCB 1254	PCB 1260	Total PCB	Toxaphene	Chemical Group A
801.11.09	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	0.7	<5.0	329.0	<2.0	<4.0	<25.0	71.0	14.0	85.0	81.4	102.1
801.11.89	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	<3.0	<2.0	<4.0	<25.0	39.0	<10.0	39.0	<20.0	ND
801.11.96	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	0.6	<5.0	59.6	<2.0	<4.0	<25.0	26.0	15.0	41.0	72.0	94.6
801.11.96	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	0.6	<5.0	62.7	<2.0	<4.0	<25.0	29.0	15.0	44.0	80.5	104.6
801.11.99	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	<3.0	<2.0	<4.0	<25.0	21.0	<10.0	21.0	<20.0	1.9
901.12.##	<1.0	<2.0	<2.0	<1.0	ND	<2.0	2.9	0.4	<5.0	41.9	<2.0	<4.0	<25.0	22.0	<10.0	22.0	<20.0	29.2
902.11.01	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	5.2	<2.0	<4.0	<25.0	<10.0	<10.0	ND	<20.0	ND
902.22.03	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	<3.0	<2.0	<4.0	<25.0	<10.0	<10.0	ND	<20.0	ND
902.32.##	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	<3.0	<2.0	<4.0	<25.0	<10.0	<10.0	ND	<20.0	2.0
904.10.##	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	4.9	<2.0	<4.0	<25.0	21.0	<10.0	21.0	<20.0	1.6

NA Means that the sample was not analyzed for the chemical.

ND Means that the chemical was not detected.

< Means that the chemical was not detected above the indicated limit of detection.

F = Filet.

W = Whole Body.

Species codes are listed in Table 3.

TABLE 2

Toxic Substances Monitoring Program

Preliminary Summary of 1999 Data: Organic Chemicals in Fish and Clams (ppb, wet weight)

Station Number	Station Name	Species Code	Tissue Type	Sample Date	Aldrin	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal
904.21.02	Buena Vista Lagoon	LMB	F	08/25/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	ND	<2.0	<2.0
904.31.##	Agua Hedionda Cr/El Camino Real	GAM	W	08/24/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	4.7	2.6	7.2	<2.0	<2.0
904.51.03	San Marcos Cr	LMB	F	08/24/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	ND	<2.0	<2.0
904.61.07	Escondido Cr/Elfin Forest Park	GSF	F	08/24/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	ND	<2.0	<2.0
907.11.03	San Diego R/u/s Taylor St	LMB	F	08/23/99	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0	3.0	<1.0	3.0	<2.0	<2.0

Station Number	Dieldrin	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMU	p,p' DDMS	Total DDT	Dicofol	Diazinon	Endo-sulfan I	Endo-sulfan II	Endo-sulfan Sulfate	Total Endo-sulfan	Endrin	Ethion
904.21.02	<2.0	<2.0	<2.0	<2.0	2.2	<3.0	<5.0	<3.0	NA	2.2	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
904.31.##	<2.0	<2.0	3.3	<2.0	42.8	<3.0	<5.0	<3.0	NA	46.1	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
904.51.03	<2.0	<2.0	<2.0	<2.0	<2.0	<3.0	<5.0	<3.0	NA	ND	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
904.61.07	<2.0	<2.0	<2.0	<2.0	<2.0	<3.0	<5.0	<3.0	NA	ND	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0
907.11.03	<2.0	<2.0	<2.0	<2.0	4.8	<3.0	<5.0	<3.0	NA	4.8	NA	<20.0	<2.0	NA	NA	ND	<2.0	<6.0

Station Number	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Total HCH	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Methoxy-chlor	Oxa-diazon	Ethyl Para-thion	Methyl Para-thion	PCB 1248	PCB 1254	PCB 1260	Total PCB	Toxaphene	Chemical Group A
904.21.02	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	<3.0	<2.0	<4.0	<25.0	<10.0	<10.0	ND	<20.0	ND
904.31.##	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	<3.0	<2.0	<4.0	<25.0	<10.0	<10.0	ND	<20.0	7.2
904.51.03	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	<3.0	<2.0	<4.0	<25.0	<10.0	<10.0	ND	<20.0	ND
904.61.07	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	<3.0	<2.0	<4.0	<25.0	<10.0	<10.0	ND	<20.0	ND
907.11.03	<1.0	<2.0	<2.0	<1.0	ND	<2.0	<1.0	<0.3	<5.0	<3.0	<2.0	<4.0	<25.0	18.0	<10.0	18.0	<20.0	3.0

NA Means that the sample was not analyzed for the chemical.

ND Means that the chemical was not detected.

< Means that the chemical was not detected above the indicated limit of detection.

F = Filet.

W = Whole Body.

Species codes are listed in Table 3.

TABLE 3
Toxic Substances Monitoring Program
1999 Species Code List

Freshwater Fish *

Species Code	Common Name	Species Name	Family Name
AC	Arroyo Chub	<i>Gila orcutti</i>	Cyprinidae
BB	Brown Bullhead	<i>Ameiurus nebulosus</i>	Ictaluridae
BCR	Black Crappie	<i>Pomoxis nigromaculatus</i>	Centrarchidae
BG	Bluegill	<i>Lepomis macrochirus</i>	Centrarchidae
BK	Brook Trout	<i>Salvelinus fontinalis</i>	Salmonidae
BLB	Black Bullhead	<i>Ameiurus melas</i>	Ictaluridae
BN	Brown Trout	<i>Salmo trutta</i>	Salmonidae
CCF	Channel Catfish	<i>Ictalurus punctatus</i>	Ictaluridae
CP	Carp	<i>Cyprinus carpio</i>	Cyprinidae
GAM	Mosquitofish	<i>Gambusia affinis</i>	Poeciliidae
GSF	Green Sunfish	<i>Lepomis cyanellus</i>	Centrarchidae
LMB	Largemouth Bass	<i>Micropterus salmoides</i>	Centrarchidae
PCP	Prickly Sculpin	<i>Cottus asper</i>	Cottidae
PRS	Red Shiner	<i>Cyprinella lutrensis</i>	Cyprinidae
RBT	Rainbow Trout	<i>Oncorhynchus mykiss</i>	Salmonidae
RCH	California Roach	<i>Hesperoleucus symmetricus</i>	Cyprinidae
SKR	Sucker	<i>Catostomus sp.</i>	Catostomidae
SPM	Sacramento Pike Minnow	<i>Ptychocheilus grandis</i>	Cyprinidae
STB	Threespine Stickleback	<i>Gasterosteus aculeatus</i>	Gasterosteidae
TL	Tilapia	<i>Tilapia sp.</i>	Cichlidae

Marine Fish *

Species Code	Common Name	Species Name	Family Name
CKF	California Killifish	<i>Fundulus parvipinnis</i>	Cyprinodontidae
ORC	Orangemouth Corvina	<i>Cynoscion xanthulus</i>	Sciaenidae
SSP	Shiner Perch	<i>Cymatogaster aggregata</i>	Embiotocidae
STF	Starry Flounder	<i>Platichthys stellatus</i>	Pleuronectidae
YFC	Yellowfin Croaker	<i>Umbrina roncadore</i>	Sciaenidae

Non-Fish

Species Code	Common Name	Species Name	Family Name
TFC	Asiatic Clam (transplant)	<i>Corbicula manilensis</i>	Corbiculidae

- * Common and scientific fish names were obtained from Robins, C.R., R.M. Bailey, C.E. Bond, J.R. Brooker, E.A. Lachner, R.N. Lea, and W.B. Scott. 1991. Common and Scientific Names of Fishes from the United States and Canada. American Fisheries Society Special Publication 20, Bethesda, Maryland.



*City of
Encinitas*

July 20, 2000

Mr. John Robertus, Executive Director
San Diego Regional Water Quality Control Board
9771 Clairemont Mesa Blvd., Ste. B
San Diego, CA 92124

Chuck DuVivier
Mayor

MUNICIPAL STORMWATER PERMIT COMPLIANCE REPORTS (90-42)

Dear Mr. Robertus:

James H. Bond
Deputy Mayor

Enclosed please find the City of Encinitas Semi-Annual Stormwater and Urban Run-off Report. In accordance with the requirements of NPDES Order 90-42, this submittal contains a thorough explanation of the following elements.

- Compliance Report on the Implementation of the Stormwater / Receiving Water Monitoring Program
- Compliance Report on the Implementation of the Illicit Connection / Illegal Discharge Detection Program
- Compliance Report on the Implementation of the Best Management Practices Program for Stormwater Pollution Control
- Program Analysis

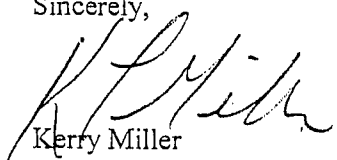
Sheila S. Cameron
Council Member

Christy Guerin
Council Member

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Dennis Holz
Council Member

Sincerely,

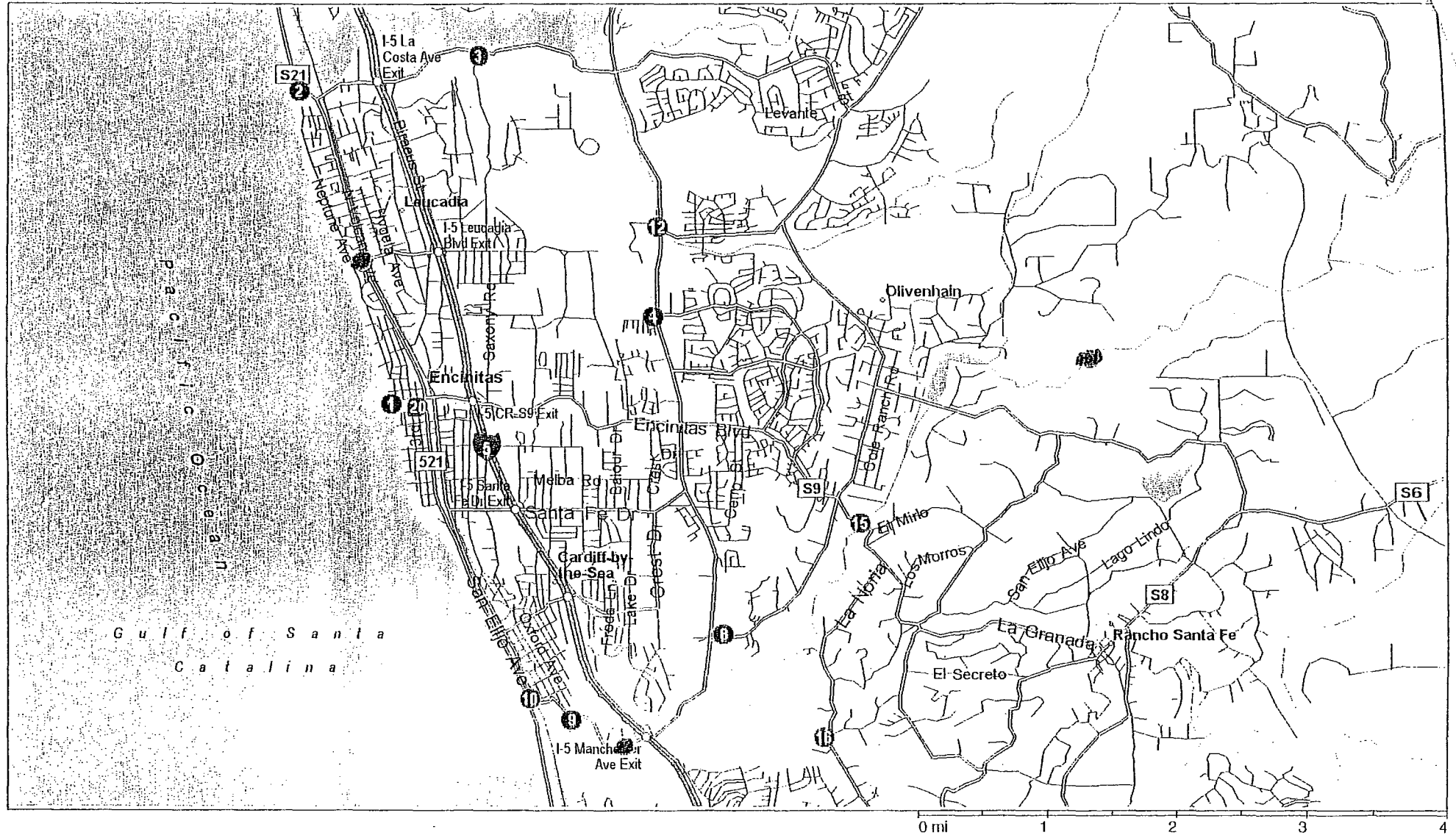

Kerry Miller
City Manager

Kerry L. Miller
City Manager

Enclosures

cc: Alan D. Archibald, P.E.
Jace Schwarm

City of Encinitas Wet Weather Monitoring Locations July '99 to June '00



			LOCATION	LA BAJADA		ESC CREEK		LA ORILLA	CARDIFF	MOON
			DATE	4/18/00	5/24/00	4/18/00	5/24/00	12/10/99	12/10/99	12/10/99
Analyte	Method	Units	Reporting Limit							
Azinphosmethyl	EPA 8141A	ug/L	1.00	ND	ND	ND	ND			
Bolstar	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Chlorpyrifos	EPA 8141A	ug/L	0.05	ND	ND	ND	ND			
Coumaphos	EPA 8141A	ug/L	0.20	ND	ND	ND	ND			
Def	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Demeton-s	EPA 8141A	ug/L	0.20	ND	ND	ND	ND			
Diazinon	EPA 8141A	ug/L	0.05	0.22	ND	0.3	ND			
Dichlorvos	EPA 8141A	ug/L	0.20	ND	ND	ND	ND			
Dimethoate	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Disulfoton	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
EPN	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
EPTC	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Ethion	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Ethoprop	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Fensulfothion	EPA 8141A	ug/L	0.50	ND	ND	ND	ND			
Fenthion	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Malathion	EPA 8141A	ug/L	0.12	ND	ND	ND	ND			
Merphos	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Mevinphos	EPA 8141A	ug/L	0.70	ND	ND	ND	ND			
Naled	EPA 8141A	ug/L	0.50	ND	ND	ND	ND			
Parathion, ethyl	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Parathion, methyl	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Phorate	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Prowl	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Ronnel	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Stirophos	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Tokuthion	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Trichloronate	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			
Trifluralin	EPA 8141A	ug/L	0.10	ND	ND	ND	ND			



San Diego Regional Water Quality Control Board:
1999 Biological Assessment Annual Report

Report in SD River Folder

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Office of Spill Prevention and Response
Water Pollution Control Laboratory
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