

9-6
LAKE SAN MARCOS
SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

**LAKE SAN MARCOS
COMMUNITY ASSOCIATION**

1145 San Marino Drive, Suite 125
Lake San Marcos, CA 92069 t/f (760) 744-4306

2001 NOV 19 P 1:16

282

November 13, 2001

Leslie Dobalian
California Regional Water Quality Control Board
9771 Clairemont Mesa Blvd., Ste. A
San Diego, CA 92124-1324

Dear Leslie:

Enclosed is a copy of the laboratory analysis of the water samples taken from Lake San Marcos in May, 2001. As far as I can tell, the results of the analysis indicate that everything is in the normal range. I would appreciate your reviewing the results and letting me know if there are any areas of concern. You can reach me at (760) 510-9684.

Our primary concerns at this time are the poor quality of the water flowing into the Lake and the build-up of sedimentation in the Lake.

Thank you for your assistance, and we would welcome any suggestions you might have for improving the water quality and viability of Lake San Marcos.

Yours truly,

Mary Clarke,
Chair, Environmental Review Committee

Enclosures



2001 NOV 19 P 1:16

August 7, 2001

Lake San Marcos Community Assn.
Attn: Billy Martin
1145 San Marino Dr., Ste. 125
Lake San Marcos, California 92069

Project Name/No.: None
Laboratory Log No.: 1247-01
Date Received: 05/10/01
Sample Matrix: Eight water samples
PO No.: COD

Please find the following enclosures for the referenced project identified:

- 1) Analytical Report
- 2) QA/QC Report
- 3) Chain of Custody Form

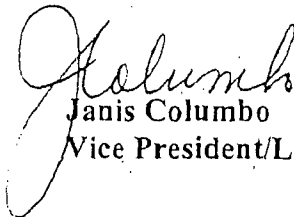
.....*Certified Analysis*.....

Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Date of extraction, date of analysis, detection limits and dilution factor are reported for each compound analyzed. All samples were analyzed within the method required holding time for sample collection.

Data for each analytical method was evaluated by assessing the following QA/QC functions, as applicable to the methodology:

- Quality Control Standard
- Surrogate Percent Recovery
- Laboratory Control Sample (LCS) percent recoveries for all analyses
- Matrix Spike Recovery/Matrix Spike Duplicate Recovery (MSR & MS DR) and/or
- Relative Percent Difference (RPD from MSR & MS DR)

I certify that this data report is in compliance both technically and for completeness. Release of the data contained in this hard copy data report has been authorized by the following signature.


 Janis Columbo
 Vice President/Laboratory Director

**ANALYSIS RESULTS - TPH-GASOLINE BY EPA 8015 B
TOTAL PETROLEUM HYDROCARBONS**

CLIENT: LAKE SAN MARCOS COMMUNITY ASSN.
PROJECT NAME/No.: NONE

DATE SAMPLED: 05/10/01
DATE RECEIVED: 05/10/01
DATE ANALYZED: 05/14/01
MATRIX: WATER

SAMPLE ID:	EMA LOG #:	TPH-GASOLINE C6 - C10			SURROGATE SPIKE 1-BROMO-4-FLUOROBENZENE
		RL	DF	RESULTS PPB (UG/L)	% RECOVERY
-----	METHOD BLANK	20	1	ND	93
GAS/DIESEL	1247-01-8	20	1	29	99

ACCEPTABLE RANGE: 77-135

RL = REPORTING LIMITS

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.



**ANALYSIS RESULTS - TPH-DIESEL BY EPA 8015 B
TOTAL PETROLEUM HYDROCARBONS**

CLIENT: LAKE SAN MARCOS COMMUNITY ASSN.
PROJECT NAME/No.: NONE

DATE SAMPLED: 05/10/01
DATE RECEIVED: 05/10/01
DATE EXTRACTED: 05/12/01
DATE ANALYZED: 05/13/01
MATRIX: WATER

SAMPLE ID:	EMA LOG #:	TPH-DIESEL C10 - C28			SURROGATE SPIKE 1-BROMO-4-FLUOROBENZENE
		RL	DF	RESULTS PPB (UG/L)	% RECOVERY
-----	METHOD BLANK	500	1	ND	115
GAS/DIESEL	1247-01-1	500	1	ND	131

ACCEPTABLE RANGE: 77-135

RL = REPORTING LIMITS

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

EMA DCN 300-064 (Rev 3/01)

EnviroMatrix



Analytical, Inc.

ANALYSIS RESULTS

CLIENT: LAKE SAN MARCOS COMMUNITY ASSN.

PROJECT NAME/No.: NONE
ANALYSIS METHOD: SMEWW 4500 NH3 D
ANALYSIS: AMMONIA AS N

DATE SAMPLED: 05/09/01
DATE RECEIVED: 05/10/01
DATE ANALYZED: 05/16/01
MATRIX: WATER

SAMPLE ID	EMA LOG #	REPORTING LIMITS PPM (MG/L)	DF	RESULTS PPM (MG/L)
OUTFALL WATER SAMPLE AMM PHOS	1247-01-1	0.1	1	0.2
CROSS BRIDGE	1247-01-5	0.1	1	0.1
PARK DOCK	1247-01-7	0.1	1	0.1

DF = DILUTION FACTOR

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

EMA DCN 300-037 (Rev 1/01)

EnviroMatrix



Analytical, Inc.

ANALYSIS RESULTS

CLIENT: LAKE SAN MARCOS COMMUNITY ASSN.

PROJECT NAME/No.: NONE

ANALYSIS METHOD: SMEWW 4500 NO3 E

ANALYSIS: NITRATE AS N

DATE SAMPLED: 05/09/01

DATE RECEIVED: 05/10/01

DATE ANALYZED: 05/11/01

MATRIX: WATER

SAMPLE ID	EMA LOG #	REPORTING LIMITS PPM (MG/L)	DF	RESULTS PPM (MG/L)
OUTFACE	1247-01-6	0.1	1	0.2

DF = DILUTION FACTOR

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

EMA DCN 300-057 (Rev 1/01)

EnviroMatrix



Analytical, Inc.

ANALYSIS RESULTS

CLIENT: LAKE SAN MARCOS COMMUNITY ASSN.

PROJECT NAME/No.: NONE
ANALYSIS METHOD: SMEWW 4500 P E
ANALYSIS: TOTAL PHOSPHORUS AS P

DATE SAMPLED: 05/09/01
DATE RECEIVED: 05/10/01
DATE ANALYZED: 05/12/01
MATRIX: WATER

SAMPLE ID	EMA LOG #	REPORTING LIMITS PPM (MG/L)	DF	RESULTS PPM (MG/L)
OUTFALL WATER SAMPLE AMM PHOS	1247-01-1	0.05	1	0.10
CROSS BRIDGE	1247-01-5	0.05	1	0.88
PARK DOCK	1247-01-7	0.05	1	0.80

DF = DILUTION FACTOR

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

EMA DCN 300-037 (Rev 1/01)

EnviroMatrix



Analytical, Inc.

ANALYSIS RESULTS

CLIENT: LAKE SAN MARCOS COMMUNITY ASSN.

PROJECT NAME/No.: NONE
ANALYSIS METHOD: SMEWW 2540 D
ANALYSIS: TSS

DATE SAMPLED: 05/09/01
DATE RECEIVED: 05/10/01
DATE ANALYZED: 05/14/01
MATRIX: WATER

SAMPLE ID	EMA LOG #	REPORTING LIMITS PPM (MG/L)	DF	RESULTS PPM (MG/L)
WEST DISCOVERY BRIDGE	1247-01-2	20	1	ND
LMS SIDE DISCOVERY BRIDGE	1247-01-3	20	1	ND
LMS WAKE BRIDGE	1247-01-4	20	1	ND

DF = DILUTION FACTOR

ND = ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.



ANALYSIS RESULTS

CLIENT: LAKE SAN MARCOS COMMUNITY ASSN.

PROJECT NAME/No.: NONE
ANALYSIS METHOD: SMEWW 2540 C
ANALYSIS: TDS

DATE SAMPLED: 05/09/01
DATE RECEIVED: 05/10/01
DATE ANALYZED: 05/14/01
MATRIX: WATER

SAMPLE ID	EMA LOG #	REPORTING LIMITS PPM (MG/L)	DF	RESULTS PPM (MG/L)
WEST DISCOVERY BRIDGE	1247-01-2	20	1	1,350
LMS SIDE DISCOVERY BRIDGE	1247-01-3	20	1	21,400
LMS WAKE BRIDGE	1247-01-4	20	1	847

DF = DILUTION FACTOR

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.



QA/QC REPORT						
METHOD: TPH-EPA 8015B-WATER					ACCEPTABLE	ACCEPTABLE
DATE ANALYZED: 05/14/01					LCS,MS/MSD	RPD
QA/QC SAMPLE: EMA 1247-01-8					CRITERIA	CRITERIA
SPIKED ANALYTE	LCS % R	MS % R	MSD % R	RPD	%	%
GASOLINE	124	118	111	7	75-125	<30

QA/QC REPORT					
METHOD: TPH- EPA 8015B-WATER				ACCEPTABLE	ACCEPTABLE
DATE ANALYZED: 05/13/01				LCS/LCSD	RPD
QA/QC SAMPLE: EMA 1247-01-BLANK				CRITERIA	CRITERIA
SPIKED ANALYTE	LCS % R	LCSD % R	RPD	%	%
DIESEL	76	92	19	75-125	<30

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY

LCSD % R = LABORATORY CONTROL SAMPLE DUPLICATE PERCENT RECOVERY

MS % R = MATRIX SPIKE PERCENT RECOVERY

MSD % R = MATRIX SPIKE DUPLICATE PERCENT RECOVERY

RPD = RELATIVE PERCENT DIFFERENCE



QA/QC REPORT

QA/QC SAMPLE: ERA 99110, 99102

DATE ANALYZED: 05/14/01

SPIKED ANALYTE	TV	DV	%R
TSS	67.3	63.1	94
TDS	263	270	103

QA/QC REPORT

					ACCEPTABLE LCS,MS/MSD CRITERIA	ACCEPTABLE RPD CRITERIA
DATE ANALYZED:	05/11-16/01					
SPIKED ANALYTE	LCS % R	MS % R	MSD % R	RPD	%	%
AMMONIA AS N	116	100	90	10	80-120	< 20
TOTAL PHOSPHORUS AS P	100	93	94	1	80-120	< 20
NITRATE AS N	93	105	99	6	80-120	< 20

TV = TRUE VALUE

DV = DETERMINED VALUE

% R = PERCENT RECOVERY

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY

MS % R = MATRIX SPIKE PERCENT RECOVERY

MSD % R = MATRIX SPIKE DUPLICATE PERCENT RECOVERY

RPD = RELATIVE PERCENT DIFFERENCE



***** AREA PERCENT REPORT *****

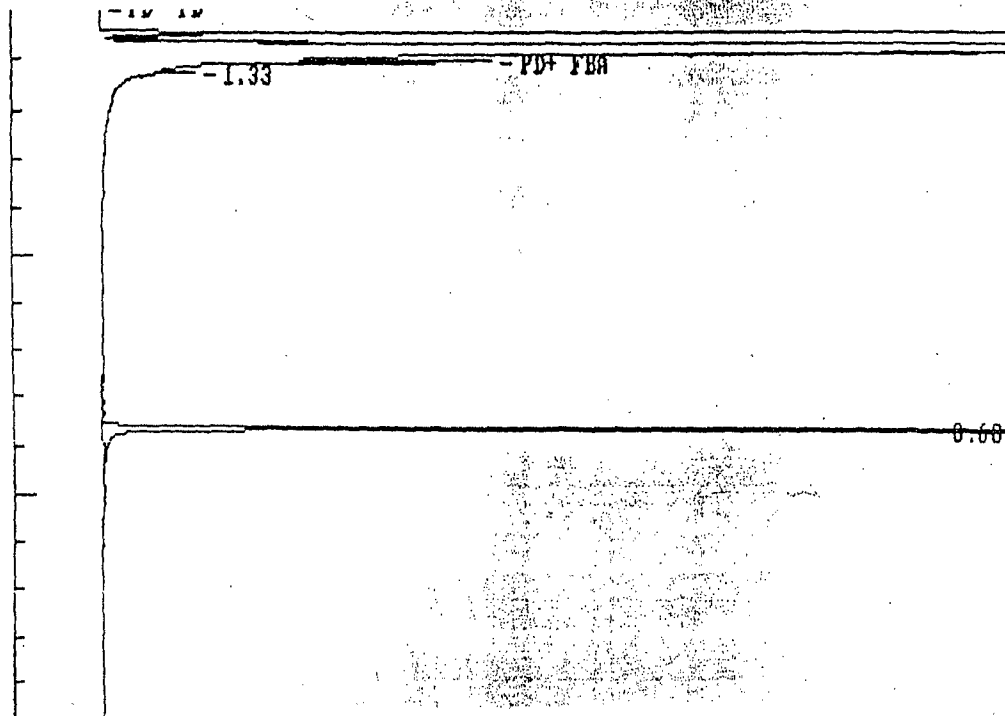
***** 05-13-2001 15:12:10 Version 5.1 *****
 * Sample Name: 1247-8 Data File: E:0513E6 *
 * Date: 05-13-1901 11:23:22 Method: C:TFHNEW *
 * Interface: 5 Cycle#: 6 Operator: CK Channel#: 0 Vial#: N.A. *
 * Starting Peak Width: 1 Threshold: 0.01 Area Threshold: 50 *

 Starting Delay: 0.00 Run Time: 32.00

PK No.	Ret Time	Peak Area	Area %	B L	Peak Ht.	Normalized %	Area/Height
1	1.333	17347	1.6102	1	8515	1.663	2.0
6	8.683	1043104	96.8217	1	270542	100.000	3.9
34	21.667	1483	0.1376	1	409	0.142	3.6
41	23.800	1337	0.1241	1	306	0.128	4.4
54	27.933	2700	0.2506	1	776	0.259	3.5
57	30.367	5358	0.4973	1	250	0.514	21.4
60	31.417	6017	0.5585	1	1270	0.577	4.7

Total Area: 1077345 Area Reject: 1000 One sample per 1.000 sec.

Data File = E:0513E6.FTS Printed on 05-13-2001 at 15:12:14
 Start time: 0.00 min. Stop time: 32.00 min. Offset: 0 mv.
 Full Range: 200 millivolts



- 4.33

- 4.63

- 6.33

- 6.67

- 7.77

- 8.22

- 9.00

- 9.52

- 10.12

- 10.60

- 11.08

- 11.55

- 12.25

- 12.73

- 13.25

- 14.02

- 14.50

- 15.18

- 15.42

- 16.28

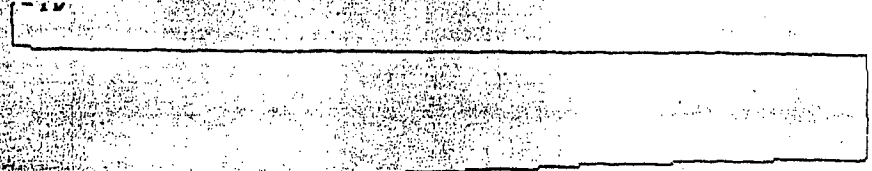
- 17.00

Starting Delay: 0.00 Run Time: 17.00

Pk. No.	Ret. Time	Peak Area	Area %	B L	Peak Ht.	Normalized %	Area/Height
1	3.250	101813	8.9493	1	13053	13.892	7.8
2	3.717	1073	0.0943	1	212	0.146	5.1
3	4.050	25292	2.2231	1	2495	3.451	10.1
4	4.383	6347	0.5579	1	516	0.866	12.3
5	4.833	27535	2.4203	1	1865	3.757	14.8
7	5.917	732867	64.4182	1	98591	100.000	7.4
8	6.233	4422	0.3887	1	774	0.603	5.7
9	6.483	4387	0.3856	1	435	0.599	10.1
10	6.867	3288	0.2890	1	458	0.449	7.2
11	7.200	16083	1.4137	1	2148	2.195	7.5
12	7.767	34965	3.0734	1	5214	4.771	6.7
13	7.950	6190	0.5441	1	707	0.845	8.7
14	8.217	1372	0.1206	1	334	0.187	4.1
16	8.500	3098	0.2723	1	403	0.423	7.7
17	9.000	2138	0.1879	1	354	0.292	6.0
18	9.250	3945	0.3468	1	362	0.538	10.9
19	9.517	1811	0.1592	1	289	0.247	6.3
20	9.717	22843	2.0078	1	2028	3.117	11.3
21	10.117	4278	0.3760	1	584	0.584	7.3
22	10.400	5498	0.4833	1	655	0.750	8.4
23	10.600	1633	0.1435	1	484	0.223	3.4
24	10.750	8633	0.7588	1	1071	1.178	8.1
25	11.083	1996	0.1754	1	290	0.272	6.9
26	11.350	16103	1.4154	1	1952	2.197	8.3
27	11.650	9463	0.8318	1	1183	1.291	8.0
30	12.250	5114	0.4495	1	988	0.698	5.2
31	12.450	1626	0.1429	1	359	0.222	4.5
32	12.733	12134	1.0666	1	1979	1.656	6.1
33	12.933	41443	0.1238	1	394	0.197	3.7
35	13.250	9289	0.8165	1	1472	1.267	6.3
36	13.550	5228	0.4595	1	904	0.713	5.8
38	14.000	8131	0.7147	1	1680	1.109	4.8
41	14.517	3281	0.2884	1	601	0.448	5.5
42	14.650	3050	0.2680	1	523	0.416	5.8
44	14.917	6591	0.5793	1	1456	0.899	4.5
45	15.183	11234	0.9874	1	2271	1.533	4.9
47	15.617	1398	0.1229	1	218	0.191	6.4
48	15.800	7100	0.6241	1	712	0.969	10.0
49	16.200	8651	0.7604	1	1119	1.180	7.7
50	16.417	4065	0.3573	1	890	0.555	4.6
51	16.617	2265	0.1991	1	175	0.309	13.0

Total Area: 1137670 Area Reject: 1000 One sample per 1.000 sec.

Areas, times, and heights stored in: Z:\051416.AIB
Data File: Z:\051416.FTS Printed on 05-15-2001 at 13:39:57
Start time: 0.00 min. Stop time: 17.00 min. Offset: 0 mv.
Full Range: 100 millivolts



-21.67

-23.80

-27.93

-30.37

-31.42

- PD-

CHAIN-OF-CUSTODY RECORD



4340 Viewridge Ave., Ste. A • San Diego, CA 92123 • Phone (858) 560-7717 • Fax (858) 560-7776

PTAS LOG #: 1217-01

PTAS DATE/TIME STAMP

Client: 1145 San Marina Drive
 Address: 1145 San Marina Drive
 Attn: Timothy D. Moore Phone: 760 744 4306
 Sampled by: Timothy D. Moore Fax: 760 744 4306
 Billing Address: 1145 San Marina Drive
 Project: 1145 San Marina Drive PO #: 7607

REQUESTED ANALYSIS	
418.1 (TRPH)	Oil & Grease 413.1 413.2
TPH (8015B) Gas <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/>	TPH-Extended 8015B ASTM D2887
602/8020 BTXE MTBE	601/8010 (Purgeable Halocarbons)
608/8081 (Pesticides)	608/8082 (PCBs)
624/8260 (Volatile Organics)	625/8270 (Semi Volatile Organics)
TTL Metals (CAC Title 22)	STLC Metals (CAC Title 22)
TCLP (RCRA) Metals	Organics
Cd Cr Cu Pb Ni Ag Zn	PH-BE-SS (105, 106)
	<u>MITIGATION</u>
	<u>PH-BE-SS (105, 106)</u>
	<u>MITIGATION</u>

PTAS ID#	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container(s) # Type*
1	<u>Outfall</u>	<u>5/7</u>		<u>N</u>	<u>1 1</u>
2	<u>1st Driveway</u>				
3	<u>Inside Driveway</u>				
4	<u>1st Make Driveway</u>				
5	<u>Car Driveway</u>				
6	<u>Outfall</u>				
7	<u>Back Yard</u>				
8	<u>A/D/C</u>				
9	<u>1st Driveway</u>	<u>5/7</u>			<u>2 VOA</u>
10	<u>Car Driveway</u>	<u>5/7</u>			

*Container Types: B=Brass Tube; =VOA; G=Glass; =Plastic; O=Other (list)
 Tamper-Proof Seals Intact: Yes No N/A Correct Containers: Yes No
 Sample(s): Cold Ambient Warm VOA's w/ZHS: Yes No N/A
 All Samples Properly Preserved: Yes No N/A
 Disposal: N/C (aqueous) *PTAS (@\$5.00/sample) Return Hold
 Turnaround Time: 24 hr 48 hr 3 day 4 day 5 day Normal
 Comments:

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Signature: <u>Thomas Moore</u>	<u>5/10/01</u>	Signature: <u>Matthew K...</u>
Print: _____	<u>11:35 AM</u>	Print: <u>Matthew K...</u>
Company: _____		Company: <u>EnviroMatrix</u>
Signature: _____		Signature: _____
Print: _____		Print: _____
Company: _____		Company: _____
Signature: _____		Signature: _____
Print: _____		Print: _____
Company: _____		Company: _____

* PTAS reserves the right to retain samples that do not match our waste profile. White - PTAS; Canary - Accounting; Pink - Client Reports; Goldendot - Client (Relinquish Samples)