Lockheed Martin Corporation
Corporate Environment, Safety & Health
7921 Southpark Plaza, Suite 210 Littleton, CO 80120

SFUND RECORDS CTR
2462-00229

SFUND RECORDS CTR
110181

LOCKHEED MARTIN

February 28, 2001

Mr. Gerard J. Thibeault
Executive Officer
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Dear Mr. Thibeault:

I am writing to report analytical results for water discharges for the month of January 2001 as required under NPDES permit CAG998001 and subsequent modifications to this permit.

Permitted discharges occurred during the first week of January 2001, and were associated with perchlorate pilot treatment system operation at the "Gage New 6" well. 8,640 gallons of groundwater were discharged in January 2001.

Attachment 1 summarizes daily discharges and analytical results. The water was discharged to a dry portion of the Santa Ana Wash east of Tippecanoe Avenue. The discharged water completely percolated into soil, never reaching any flowing portion of the Santa Ana River.

Attachment 2 summarizes the related laboratory analytical data. Please contact me at 303.971.1880 if you or your staff have any questions.

Sincerely,

Stephen Evanoff
Manager, Redlands Project

SE:eh

Attachments

c: See distribution

Distribution

Kevin Mayer (SFD-73)
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105

Susan Beeson
California Regional Quality Control Board
Santa Ana Region

Kamron Saremi
California Regional Quality Control Board
Santa Ana Region

James H. O'Brien (w/o attachments)
Vice President
Lockheed Martin Corporation
7921 Southpark Plaza, Suite 210
Littleton, CO 80120

ATTACHMENT 1

Table 1

NPDES Summary--January 2001

Constituent	01/02/01	01/03/01	01/04/01	01/05/01
Flow (gallons/day)	1,440	1,440	1,440	1,440
Oil and Grease (mg/l)	nt	ND	nt	nt
Sulfides (mg/l)	nt	ND	nt	nt
TPH (mg/l)	nt	ND	nt	nt
TCE (ug/l)[3]	nt	ND	nt	nt
pH (Effluent)	nt	8.4	nt	nt
Perchlorate (ug/l)	nt	ND	nt	nt
Nitrate as NO_3 (mg/l)	nt	29	nt	nt
DBCP (ug/l)	nt	ND	nt	nt
TSS (mg/l)	nt	ND	nt	nt

Notes:

1. Weekly analysis of the discharge was granted by the RWQCB and was implemented beginning 9/12/00.
2. ND = not detected
3. All method volatile organic constituents ND.
4. nt = not tested

ATTACHMENT 2

Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

Report Date: *Wednesday, January 17, 2001*
Received Date: *Wednesday, January 03, 2001*
Log By: tn
Log Time: 11:49

Client: Earth Tech, Inc.
100 West Broadway, Suite 5000
Long Beach, CA 90802-4443
Attn.: Barry Molnaa

Phone: (562) 951-2129
FAX: (562) 951-2086

Project: LMC POP

P.O. #: 2000S-0086-LB9
Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A100054-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: Client **Date:** 1/3/01 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Nitrate as NO3	29		mg/L	1	0.20	EPA 300.0	1/3/01	kk	WS20918
Prep. SPE									
Oil & Grease	ND		mg/L	1	5	EPA 1664	1/9/01	sl	WS20993
Sulfide, dissolved	ND		mg/L	1	0.10	SM 4500S2 D	1/3/01	td	WS20875
Total Suspended Solids	ND		mg/L	1	5	EPA 160.2	1/3/01	hn	WS20882
Prep. EPA 3510C									
Diesel range hydrocarbons (C10-C23)	ND		mg/L	1	0.10	EPA 8015B	1/9/01	tl	WS21022
Prep. P&T									
Gasoline range hydrocarbons (C6-C10)	ND		mg/L	1	0.10	EPA 8015B	1/8/01	wm	WS21039
Prep. Direct Inj.									
Perchlorate	ND		ug/L	1	4.0	EPA 314	1/12/01	dc	WS21181
Dichlorodifluoromethane	ND		ug/L	1	1.0	EPA 524.2	1/10/01	rt	WS21063
Chloromethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Vinyl chloride	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Bromomethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Chloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	5.0	EPA 524.2	1/10/01	rt	WS21063
Trichlorotrifluoroethane (Freon 113)	ND		ug/L	1	10	EPA 524.2	1/10/01	rt	WS21063
1,1-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Methylene chloride (Dichloromethane)	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
trans-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Methyl tert-Butyl Ether	ND		ug/L	1	1.0	EPA 524.2	1/10/01	rt	WS21063
1,1-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5.0	EPA 524.2	1/10/01	rt	WS21063
2,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
cis-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Bromochloromethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Chloroform	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,1,1-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Carbon tetrachloride	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,1-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Benzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Wednesday, January 17, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A100054-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: Client **Date:** 1/3/01 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
1,2-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Trichloroethene (TCE)	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Dibromomethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Bromodichloromethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
cis-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
4-Methyl-2-pentanone (MiBK)	ND		ug/L	1	5.0	EPA 524.2	1/10/01	rt	WS21063
2-Chloroethylvinyl ether	ND		ug/L	1	1.0	EPA 524.2	1/10/01	rt	WS21063
Toluene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
trans-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,1,2-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Tetrachloroethene (PCE)	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,3-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Dibromochloromethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Chlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Ethyl benzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
m/p-Xylenes	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
o-Xylene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Styrene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Bromoform	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Isopropylbenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Bromobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,1,2,2-Tetrachloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,2,3-Trichloropropane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
n-Propyl benzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
2-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
4-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,3,5-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
tert-Butyl benzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,2,4-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
bis(2-Chloroethyl) Ether	ND		ug/L	1	5.0	EPA 524.2	1/10/01	rt	WS21063
sec-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,3-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
4-isopropyltoluene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,4-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,2-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
n-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	1.0	EPA 524.2	1/10/01	rt	WS21063
1,2,4-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Hexachlorobutadiene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Naphthalene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,2,3-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Total 1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Tert-amyl Methyl Ether	ND		ug/L	1	3.0	EPA 524.2	1/10/01	rt	WS21063

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Wednesday, January 17, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A100054-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: Client **Date:** 1/3/01 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Ethyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	1/10/01 rt	WS21063
1,1,1,2-Tetrachloroethane	ND		ug/L	1	0.5	EPA 524.2	1/10/01 rt	WS21063

Authorized Signature

ELAP # 1132
LACSD # 10143
AZ0526

Flags for Data Qualifiers:

B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
J = Estimated value, detected but below the reporting limit.
H = Estimated value, result over the calibration range
R = Result is suspect, LCS recovery greater than the upper control limit.
L = Result is suspect, LCS recovery lower than the control limit.
Q = QC result out of acceptance limits.
T = Trace detection, detected but below the reporting limit.

Notes:

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless specified.
RL = Reporting Limit.
ND = Not detected, below the reporting limit.
Sub = Subcontracted analysis, original report enclosed.

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Weck Laboratories, Inc.
Analytical & Environmental Services
14859 East Clark Avenue • Industry, CA 91745
Tel 626-336-2139 • Fax 626-336-2634 • www.wecklabs.com

CHAIN OF CUSTODY RECORD

CLIENT NAME: Earth Tech
PROJECT: LMC POP
ADDRESS: 100 W. Broadway #240, Long Beach, CA 90802
PHONE #:
FAX #:
PROJECT MANAGER
SAMPLER
P.O. #

ANALYSIS REQUESTED

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	VOC 524.2	Nitrate 300.0	Oil/Grease 1664	TPH 8015	Sulfides 376.2	TSS 160.2	Perchlorate 331.1	Nit/Sulf/Cl 300.0			REMARKS
A100534-01	1/3/01	0830	GW	Discharge	11	2	1	1	4	1	1	1				
02	↓	↓	↓	Gage New 6 GW	3	2							1			
03				GAC Midpoint	2	2										
04				GAC Effluent	2	2										
05				Trip Blank	1	X										

SPECIAL HANDLING
- ☐ Same Day Rush
- ☐ 24 Hour Rush
- ☐ 48 - 72 Hour Rush
- ☐ 4 - 5 Days
- ☑ 7 - 10 Business Days
- ☐ QA/QC Package

Reporting Agency
Method of Shipment

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
Tom [illegible]	1/3 1230	Jim Dubbons EF	1/3 1030
Jim Dubbons EF	1/3 1147	[illegible]	1/3/01 11:47
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME

SAMPLE CONDITION:
Actual Temperature: 1°C
Received On Ice Y / N
Preserved Y / N
Evidence Seals Intact Y / N
Container Attacked Y / N
Preserved at Lab Y / N

SAMPLE TYPE CODE:
AQ = Aqueous
NA = Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

RUSH TURN AROUND TIME MAY REQUIRE SURCHARGE
TERMS AND CONDITIONS: SEE BACK OF THIS FORM

SPECIAL REQUIREMENTS / BILLING INFORMATION

DAILY MONITORING LOG

General Parameters

Date 1/3/01

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.4	1430	
Conductivity	Discharge	685		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	57		psi
Bag Filter Effluent	PI-05	56		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5766		KW-Hours
Electrical Usage Meter B	Electric Meter	1353		KW-Hours

60 59 59 58

Table 1

NPDES Summary--January 2001

Constituent	Limit	01/02/01	01/03/01	01/04/01	01/05/01
Flow (gallons/day)	50400 gpd	1,440	1,440	1,440	1,440
Oil and Grease (mg/l)	15 mg/L	nt	ND	nt	nt
Sulfides (mg/l)	0.4 mg/L	nt	ND	nt	nt
TPH (mg/l)	100 ug/L	nt	ND	nt	nt
TCE (ug/l)[3]	<1 ug/L	nt	ND	nt	nt
pH (Effluent)	6.5 to 8.5	nt	8.4	nt	nt
Perchlorate (ug/l)	18 ug/l	nt	ND	nt	nt
Nitrate as NO_3 (mg/l)	45 mg/l	nt	29	nt	nt
DBCP (ug/l)	0.2 ug/l	nt	ND	nt	nt
TSS (mg/l)		nt	ND	nt	nt

Notes:

1. Weekly analysis of the discharge was granted by the RWQCB and was implemented beginning 9/12/00.
2. ND = not detected
3. All method volatile organic constituents ND.
4. nt = not tested

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Report Date: *Wednesday, January 17, 2001*
Received Date: *Wednesday, January 03, 2001*
Log By: tn
Log Time: 11:49

Client: Earth Tech, Inc.
100 West Broadway, Suite 5000
Long Beach, CA 90802-4443
Attn.: Barry Molnaa

Phone: (562) 951-2129
FAX: (562) 951-2086

Project: LMC POP

P.O. #: 2000S-0086-LB9
Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A100054-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: Client **Date:** 1/3/01 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Nitrate as NO3	29		mg/L	1	0.20	EPA 300.0	1/3/01	kk	WS20918
Prep. SPE									
Oil & Grease	ND		mg/L	1	5	EPA 1664	1/9/01	sl	WS20993
Sulfide, dissolved	ND		mg/L	1	0.10	SM 4500S2 D	1/3/01	td	WS20875
Total Suspended Solids	ND		mg/L	1	5	EPA 160.2	1/3/01	hn	WS20882
Prep. EPA 3510C									
Diesel range hydrocarbons (C10-C23)	ND		mg/L	1	0.10	EPA 8015B	1/9/01	tl	WS21022
Prep. P&T									
Gasoline range hydrocarbons (C6-C10)	ND		mg/L	1	0.10	EPA 8015B	1/8/01	wm	WS21039
Prep. Direct Inj.									
Perchlorate	ND		ug/L	1	4.0	EPA 314	1/12/01	dc	WS21181
Dichlorodifluoromethane	ND		ug/L	1	1.0	EPA 524.2	1/10/01	rt	WS21063
Chloromethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Vinyl chloride	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Bromomethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Chloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	5.0	EPA 524.2	1/10/01	rt	WS21063
Trichlorotrifluoroethane (Freon 113)	ND		ug/L	1	10	EPA 524.2	1/10/01	rt	WS21063
1,1-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Methylene chloride (Dichloromethane)	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
trans-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Methyl tert-Butyl Ether	ND		ug/L	1	1.0	EPA 524.2	1/10/01	rt	WS21063
1,1-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5.0	EPA 524.2	1/10/01	rt	WS21063
2,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
cis-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Bromochloromethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Chloroform	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,1,1-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Carbon tetrachloride	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
1,1-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063
Benzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01	rt	WS21063

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www.wecklabs.com

Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Wednesday, January 17, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A100054-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: Client **Date:** 1/3/01 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
1,2-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Trichloroethene (TCE)	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Dibromomethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Bromodichloromethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
cis-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
4-Methyl-2-pentanone (MiBK)	ND		ug/L	1	5.0	EPA 524.2	1/10/01 rt	WS21063
2-Chloroethylvinyl ether	ND		ug/L	1	1.0	EPA 524.2	1/10/01 rt	WS21063
Toluene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
trans-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,1,2-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Tetrachloroethene (PCE)	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,3-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Dibromochloromethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Chlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Ethyl benzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
m/p-Xylenes	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
o-Xylene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Styrene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Bromoform	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Isopropylbenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Bromobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,1,2,2-Tetrachloroethane	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,2,3-Trichloropropane	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
n-Propyl benzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
2-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
4-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,3,5-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
tert-Butyl benzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,2,4-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
bis(2-Chloroethyl) Ether	ND		ug/L	1	5.0	EPA 524.2	1/10/01 rt	WS21063
sec-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,3-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
4-isopropyltoluene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,4-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,2-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
n-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	1.0	EPA 524.2	1/10/01 rt	WS21063
1,2,4-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Hexachlorobutadiene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Naphthalene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
1,2,3-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Total 1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	1/10/01 rt	WS21063
Tert-amyl Methyl Ether	ND		ug/L	1	3.0	EPA 524.2	1/10/01 rt	WS21063

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Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Client: Earth Tech, Inc.
Project Name: LMC POP

Report Date: *Wednesday, January 17, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A100054-001 **Sample ID:** Discharge **Matrix:** Ground Water
Sampled By: Client **Date:** 1/3/01 **Time:** 8:30

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Ethyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	1/10/01 rt	WS21063
1,1,1,2-Tetrachloroethane	ND		ug/L	1	0.5	EPA 524.2	1/10/01 rt	WS21063

Authorized Signature

ELAP # 1132
LACSD # 10143
AZ0526

Flags for Data Qualifiers:

B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
J = Estimated value, detected but below the reporting limit.
H = Estimated value, result over the calibration range
R = Result is suspect, LCS recovery greater than the upper control limit.
L = Result is suspect, LCS recovery lower than the control limit.
Q = QC result out of acceptance limits.
T = Trace detection, detected but below the reporting limit.

Notes:

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless specified.
RL = Reporting Limit.
ND = Not detected, below the reporting limit.
Sub = Subcontracted analysis, original report enclosed.

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Analytical & Environmental Services
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CHAIN OF CUSTODY RECORD

CLIENT NAME: Earth Tech
PROJECT: LMC POP
ADDRESS: 100 W. Broadway #240 Long Beach, CA 90802
PHONE #:
FAX #:
PROJECT MANAGER
SAMPLER
P.O. #

SPECIAL HANDLING
- ☐ Same Day Rush
- ☐ 24 Hour Rush
- ☐ 48 - 72 Hour Rush
- ☐ 4 - 5 Days
- ☒ 7 - 10 Business Days
- ☐ QA/QC Package

Reporting Agency
Method of Shipment

ANALYSIS REQUESTED

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	VOC 524.2	Nitrate 300.0	Oil/Grease 1664	TPH 8015	Sulfides 376.2	TSS 160.2	Perchlorate 331.0	Nit/Sulf/Cl 300.0			REMARKS
A100054-01	1/3/01	0830	GW	Discharge	11	2	1	1	4	1	1	1				
02	↓	↓	↓	Gage New 6 GW	3	2							1			
03				GAC Midpoint	2	2										
04				GAC Effluent	2	2										
05				Trip Blank	1	X										

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
Tom Petto	1/3 1030	Jim Gibbons E&F	1/3 1030
Jim Gibbons E&F	1/3 1147	Michelle Reifers	1/3/01 11:47

SAMPLE CONDITION:
Actual Temperature: 1°C
Received On Ice Y / N
Preserved Y / N
Evidence Seals Intact Y / N
Container Attacked Y / N
Preserved at Lab Y / N

SAMPLE TYPE CODE:
AQ= Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

RUSH TURN AROUND TIME MAY REQUIRE SURCHARGE
TERMS AND CONDITIONS: SEE BACK OF THIS FORM

SPECIAL REQUIREMENTS / BILLING INFORMATION

DISTRIBUTION: WHITE & CANARY - For Laboratory PINK - For Client

DAILY MONITORING LOG

General Parameters

Date 1/3/01

Parameter	Location/ID#	Reading	Time	Units
pH @ Discharge	Discharge	8.4	1430	
Conductivity	Discharge	685		
GAC Influent	PI-01	3		psi
GAC Midpoint	PI-02	0		psi
GAC Effluent	PI-03	0		psi
Bag Filter Influent	PI-04	57		psi
Bag Filter Effluent	PI-05	56		psi
Influent Manifold Pressure	PI-06			psi
Electrical Usage Meter A	Electric Meter	5766		KW-Hours
Electrical Usage Meter B	Electric Meter	1353		KW-Hours

60 59 59 58