



**APPLIED EARTH CONSULTANTS, INC.**

- ENGINEERING      • HYDROLOGY
- GEOLOGY          • ENVIRONMENTAL SERVICES

910 Bern Court, Suite 150, San Jose, CA 95112 408-298-0806

*sep*

December 30, 1987  
Job No: 607471

*Pb Probelog from  
gasolin Pb emissions*

Mr. Storm Goranson  
Alameda County Health Services Agency, Environmental Division  
470 Twenty-Seventh Street  
Oakland, CA 94612

RECEIVED  
JAN 5 1988

Subject: SAMPLING OF STORM SEWER  
Dublin Multilayer, Inc.  
6341 Scarlett Crt.  
Dublin, CA 94568

HAZARDOUS WASTE MODEL

Dear Mr. Goranson:

This letter is in reference to the sampling of the storm sewer inlet adjacent to the building currently occupied by Dublin Multilayer, located at 6341 Scarlett Court, Dublin, California (see Plate 1). As per the telephone request of Mr. Lowell Miller (October 20, 1987), of the Alameda County Health Services Agency, Environmental Division (ACHSAED), and yourself (October 26, 1987), a second sampling of the subject site storm sewer was collected, and was to include the liquid and solid phases of the materials found in the sewer. The purpose of this sampling, as well as the previous sampling of the same sewer that occurred on July 19, 1987, (see Appendix B) was to investigate for the presence of chemicals in the sewer from an unauthorized discharge that occurred at the subject site on July 19, 1987.

On November 2, 1987 myself, Michael Princevalle of APPLIED EARTH CONSULTANTS, Inc. (AEC) had the storm sewer grate removed by the City of Dublin Maintenance Department. Once the grate was removed, a grab sample was recovered from the bottom of the drop-drain, with a clean, plastic, one-liter container. The sample consisted of approximately one-half liquid material and one-half solid material that was found in the drop-drain. The sample was taken to Trace Analysis, located in Hayward, California, for analysis. As per the request of Mr. Miller, both phases of the sample were tested seperately and analyzed for chromium, copper, lead, nickel, silver, zinc, fluoride, and iron. The results are enclosed in Appendix A of this letter.

The results indicate that the sample appears to have had non-dectable or very low levels of chromium, copper, nickel, silver, zinc, fluoride, and iron. The lead levels in the sample's solid phase appears to be relatively high, in reference to Title 22, California Administrative Code (CAC).

The origin of the lead compounds found in the sewer is not certain. Just prior to the second sampling, two rain events had occured and appeared to have washed materials from the surfaces of the surrounding parking lots/driveway into the sewer opening and may have influenced the lead levels in the materials sampled. Also, red-orange rust materials (see Dublin Multilayer letter dated October 21, 1987) were not noted in the sewer when sampled by AEC. The solid phase mixtures found in and sampled from the sewer appeared to have been an accumululation of materials over long periods of time, and, possibly, may not be indicative of the compounds of the unauthorized discharge. It is possible that the lead levels

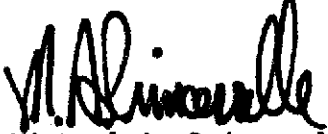
APPLIED EARTH CONSULTANTS, Inc

found in this storm sewer are indicative of other storm sewers found in the Dublin area.

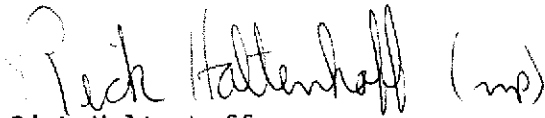
We hope that this letter answers your concerns about the status of the storm sewer as it relates to the incident of July 19, 1987. We believe that Dublin Multilayer has performed diligently to satisfy your concerns in this matter and hope that this issue has been resolved. For additional background information on this matter, please refer to Appendix B. If you have additional questions, please feel free to give Mr. John Chan, of Dublin Multilayer, a call at (415) 892-1956, or myself, at (408) 298-0806. Thank you for your cooperation.

Very truly yours,

APPLIED EARTH CONSULTANTS, Inc.



Michael A. Princevalle  
Manager, Environmental Management Division

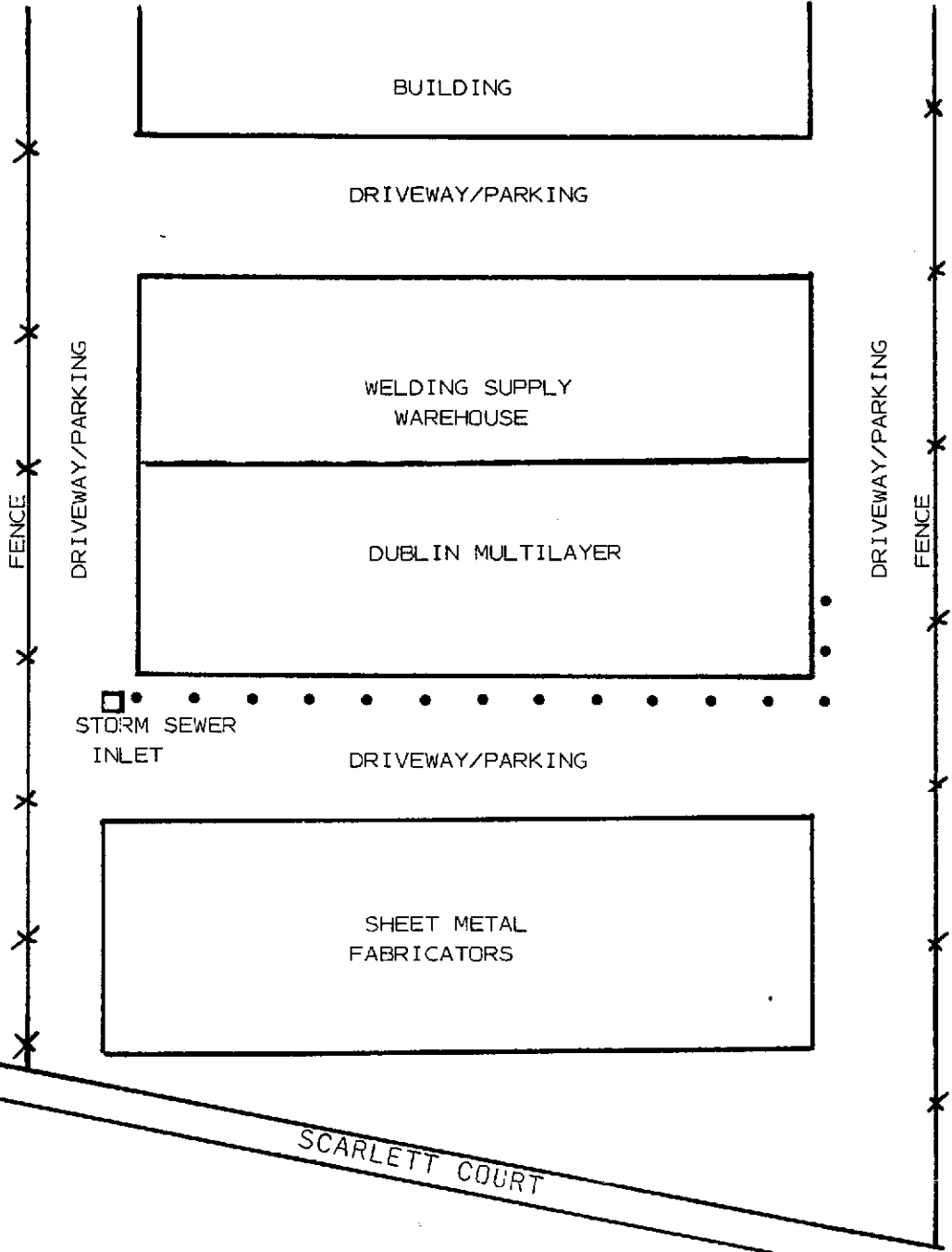
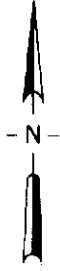


Rick Haltenhoff  
President

RH/MP/mp

Copies: Addressee (1)  
Mr. John Chan, Dublin Multilayer

Attachments: Plate 1: Site Plan  
Appendix A: Laboratory Results and Chain of Custody  
Appendix B: Dublin Multilayer Reports/Correspondence



SITE PLAN  
6341 SCARLETT CRT  
DUBLIN, CA

NOT TO SCALE

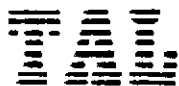
- APPROX. PATH OF DISCHARGE
- BUILDING WALLS

Job No: 607471

December 30, 1987

APPENDIX A  
LABORATORY RESULTS AND CHAIN OF CUSTODY

APPLIED EARTH CONSULTANTS, Inc.



DATE: 11/18/87  
 LOG NO.: 5347  
 DATE SAMPLED: 11/2/87  
 DATE RECEIVED: 11/2/87

CUSTOMER: Dublin Multilayer Inc.  
 REQUESTER: Karl Sauter  
 PROJECT: No. 607471, Storm Sewer SW of DML

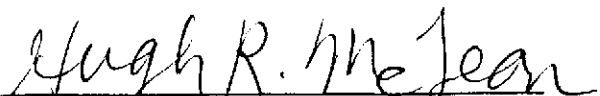
Sample Type: Solid Phase

<u>Method and Constituent</u>	<u>Units</u>	<u>Storm Sewer SW of DML</u>	
		<u>Concen- tration</u>	<u>Detection Limit</u>
EPA Method 7190: Cr	ug/kg	400,000	9,000
EPA Method 7210: Cu	ug/kg	440,000	10,000
EPA Method 7421: Pb	ug/kg	7,200,000	400,000
EPA Method 7520: Ni	ug/kg	200,000	60,000
EPA Method 7761: Ag	ug/kg	.910	90
EPA Method 7950: Zn	ug/kg	200,000	2,000
EPA Method 340.2: Fluoride	ug/kg	8,000	2,000
EPA Method 236.1: Fe	ug/kg	620,000	10,000

DATE: 11/18/87  
LOG #: 5347  
DATE SAMPLED: 11/2/87  
DATE RECEIVED: 11/2/87  
PAGE: Two

Sample Type: Liquid Phase

<u>Method and Constituent</u>	<u>Units</u>	<u>Storm Sewer SW of DML</u>	
		<u>Concen- tration</u>	<u>Detection Limit</u>
EPA Method 7190: Cr	ug/l	< 90	90
EPA Method 7210: Cu	ug/l	< 100	100
EPA Method 7420: Pb	ug/l	< 400	400
EPA Method 7520: Ni	ug/l	< 600	600
EPA Method 7760: Ag	ug/l	< 200	200
EPA Method 7950: Zn	ug/l	< 20	20
EPA Method 340.2: Fluoride	ug/l	340	40
EPA Method 236.1: Fe	ug/l	200	100

  
Hugh R. McLean  
Supervisory Chemist

HRM:m1n

Job Name:

Dublin Multi Layer

Job Number:

(1749)

Sampling Round Number:

Sampler(s):

Michael Princesalle

Storm Water S.W. # 1012

Well or Sample Number	Date	Time	Comp.	Grab	Sample Container	Analytes Requested / Remarks
	11-2-99	10:30 AM		X	Plastic 1 L	Liquid & Solid Phases: Copper, Nickel, Fluoride 700 will call to address
						11-4 - added Toluene Pb, Au, Zn

Relinquished by: (Signature)

Date-Time

Received by: (Signature)

Relinquished by: (Signature)

Date-Time

Received by: (Signature)

Relinquished by: (Signature)

Michael Princesalle

Received for Laboratory by: (Signature)

[Signature]

TRACE ANALYSIS LABORATORY  
9423 INVESTMENT BLVD., UNIT 8  
HAYWARD, CA 94545  
(415) 783-6960

11-2-99

A3

Job No: 607471

December 30, 1987

APPENDIX B  
DUBLIN MULTILAYER REPORTS AND CORRESPONDENCE

APPLIED EARTH CONSULTANTS, Inc.



DUBLIN MULTILAYER INC.  
SPILL REPORT FOR JULY 19, 1987

RECEIVED

OCT 14 1987

APPLIED EARTH CONSULTANTS

TIME PROBLEM NOTED: 11:06 AM BY DUBLIN POLICE DEPARTMENT  
11:50 AM BY MR. ED WONG, PRESIDENT

TIME DISCHARGE CEASED: APPROXIMATELY 12:15 PM

PROBLEM: HOSE WITH NOZZLE WHICH WAS CONNECTED TO CITY WATER LINE  
SPRUNG A LEAK. THE SECONDARY CONTAINMENT AREA (EFFECTIVE  
VOLUME 70 CUBIC FEET) THEN FILLED WITH CITY WATER AND OVER-  
FLOWED. WATER FLOWED FROM UNDER THE BACK BAY DOOR THROUGH  
PARKING LOT TO STORM DRAIN. ACCORDING TO WATER METER ABOUT  
160 CUBIC FEET (1200 GALLONS) HAD OVERFLOWED. BASED ON 2 GPM  
OVERFLOW RATE THE LEAK STARTED BETWEEN 2:00 AM AND 2:30 AM ON  
JULY 19TH AND CONTINUED FOR ABOUT TEN HOURS.

IMMEDIATE CORRECTIVE ACTION TAKEN:

MAIN CITY WATER VALVE WAS TURNED OFF AT 12:15 PM. AT 5:00 PM  
THE MEMTEK WASTE TREATMENT SYSTEM WAS TURNED ON AND WATER IN  
THE SECONDARY CONTAINMENT AREA WAS SAMPLED AND PUMPED TO THE  
WASTE TREATMENT SYSTEM. AT 7:00 PM ERICKSON INC. BEGAN  
CLEANING UP RUST STAINS (NON-HAZARDOUS FERROUS IRON RESIDUE)  
LEFT BY THE OVERFLOW THROUGH THE PARKING AREA TO THE STORM  
DRAIN, AND COMPLETED THE JOB BY 11:30 PM. THE RUST CLEANUP  
WAS REQUIRED BY MR. MILLER OF THE ALAMEDA HEALTH DEPARTMENT  
WHO VISITED THE LOCATION AT 2:30 PM.

LONG-TERM CORRECTIVE ACTION TAKEN:

- 7/20
- 1) REPLACED HOSE, NOZZLE, AND PIPE WITH SCHEDULE 80 PIPE.
  - 2) PLANT MEETING AND PLANT-WIDE MAINTENANCE CHECK DONE  
WITH WET-FLOOR AREA SHUT DOWN. MEMTEK AREA CLEANED.
  - 3) CANCELLED SECOND SHIFT.
  - 4) DISCUSSION WITH APPLIED EARTH (CONSULTANTS).
    - A) REFRIGERATE 5 GALLON SAMPLE OF OVERFLOW.
    - B) SAMPLE STORM DRAIN.
    - C) SEND SAMPLES TO STATE CERTIFIED LAB FOR ANALYSIS.
    - D) AEC TO CONTACT PRESS, COUNTY HEALTH DEPARTMENT, AND  
LOCAL WATER DISTRICT REGARDING INCIDENT.
- 7/21
- 1) ERICKSON INC. PUMPS RUST CLEANUP WATER TO MEMTEK WASTE  
TREATMENT SYSTEM FOR TREATMENT.
  - 2) LAB RESULTS SHOW BOTH OVERFLOW SAMPLE ( $Cu = 2.4$  PPM)  
AND STORM DRAIN SAMPLE ( $Cu = 0.9$  PPM) WERE WITHIN  
EFFLUENT LIMITS OF LOCAL WATER DISTRICT (DSRSD).
  - 3) PLANT SHUTDOWN PROCEDURE REVISED TO INCLUDE SHUTOFF  
OF MAIN CITY WATER VALVE.

SIGNATURE: Harold A. Sauter TITLE: RC Manager

CC: MR. JOHN MAUCK, DUBLIN SAN RAMON SERVICES DISTRICT (DSRSD)  
MR. LOWELL MILLER, ALAMEDA COUNTY HEALTH DEPARTMENT  
MR. TOM HATHCOCK, DUBLIN FIRE DEPARTMENT  
MS. I HUANG, REGIONAL WATER QUALITY CONTROL BOARD  
MS. D. RUCHONNET, APPLIED EARTH CONSULTANTS INC.

**TAL**

DATE: 7/21/87  
 LOG NO.: 4988  
 DATE SAMPLED: 7/20/87  
 DATE RECEIVED: 7/20/87

CUSTOMER: Dublin Multilayer, Inc.  
 REQUESTER: John Chan  
 PROJECT: Tank Overflow

RECEIVED  
 JUL 28 1987  
 DUBLIN MULTILAYER, INC.

Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Rinse Water</u>
			<u>Concentration</u>
EPA Method 7061:			
As	mg/l	0.0005	0.0026
EPA Method 7130:			
Cd	mg/l	0.04	< 0.04
EPA Method 7190:			
Cr	mg/l	0.03	< 0.03
EPA Method 7210:			
Cu	mg/l	0.05	2.4 *
EPA Method 7420:			
Pb	mg/l	0.2	< 0.2
EPA Method 7520:			
Ni	mg/l	0.07	< 0.07
EPA Method 236.1			
Fe	mg/l	0.06	0.64
EPA Method 9010:			
Cyanide	mg/l	0.01	< 0.01

Trace Analysis Laboratory is certified by the California Department of Health Services under Hazardous Waste Testing Laboratory Certificate No. 122.

*Ronald H. Ming Chew*  
 Ronald H. Ming Chew  
 Supervisory Chemist

RMC:tlh

DATALAB, INC.  
171 Del Franco St.  
SAN JOSE, CA 95131  
(408) 943-1888

RECEIVED  
AUG 5 1987  
DUBLIN MULTILAYER, INC.

Lab. Report #10880-1  
August 04, 1987

Dublin Multilayer  
Attn: John Chan  
6341 Scarlet Court  
Dublin, CA 94568


Subject: Chemical Analysis of Effluent  
Sample Received: 07/20/1987 17:36:03

Storm Drain Sample  
Chromium  
Copper  
Nickel  
Lead  
Arsenic

Found,

0.20 mg/l  
0.90 mg/l  
0.17 mg/l  
0.36 mg/l  
0.80 mg/l

Datalab, Inc.

  
Holly Ham

HH:hh



NOV 03 1987

APPLIED EARTH CONSULTANTS  
October 21, 1987

Mr. Norm Goranson, Senior Hazardous Materials Specialist  
Alameda County Health Services Agency, Environmental Division  
470 Twenty-Seventh Street  
Oakland, CA 94612

RE: Dublin Multilayer Spill Report (July 19, 1987)

ADDENDUM FOR STORM DRAIN SAMPLE TAKEN JULY 20, 1987

- 1) On Sunday, July 19, 1987, there had been no recent rain and the storm drains were dry. There continued to be no rain July 19th through October 21, 1987.
- 2) The small puddle in the storm drain, which was sampled on the morning of July 20, was a remnant of what entered the storm drain on Sunday, July 19, 1987.
- 3) The water released in the spill traveled about 250 feet over blacktop, around the building, before reaching the storm drain.
- 4) Most of the rust (metal hydroxides) in the water were observed to settle out onto the blacktop before they reached the storm drain. This material was removed and vacuumed into a tank truck by Erickson Inc. on Sunday evening, July 19, 1987.
- 5) Sediment present in the storm drain became stirred up while the storm drain sample was being taken. The sediment present in the original storm drain sample consisted of small hairs, sand, gravel, insect parts, and plant material.
- 6) The original sample was stirred and the gravel allowed to settle for a few seconds before a 10 ml bottle was filled with the original sample. The 10 ml bottle which contained almost no gravel was sent to an outside laboratory for analysis.
- 7) The laboratory analysis was done according to EPA Methods and showed no violation of DSRSD Wastewater Discharge Provisions.

Sincerely,

Karl A. Sauter  
QC Manager

cc: Lydia Huang, Regional Water Quality Control Board  
Dwight Hoenig, Department of Health Services  
Gil Jensen, Alameda County District Attorney  
Michael Princevalle, Applied Earth Consultants Inc.  
John Mauck, Dublin San Ramon Services District (DSRSD)

DUBLIN MULTILAYER INC.  
SPILL REPORT FOR JULY 19, 1987

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11:50 AM BY MR. ED WONG, PRESIDENT

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SIGNATURE:

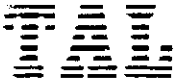
*Harold A. Suter*

TITLE:

*QC Manager*

CC: MR. JOHN MAUCK, DUBLIN SAN RAMON SERVICES DISTRICT (DSRSD)  
MR. LOWELL MILLER, ALAMEDA COUNTY HEALTH DEPARTMENT  
MR. TOM HATHCOCK, DUBLIN FIRE DEPARTMENT  
MS. L. HUANG, REGIONAL WATER QUALITY CONTROL BOARD  
MS. D. RUCHONNET, APPLIED EARTH CONSULTANTS INC.

*8/7/87*



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LOG NO.: 4988  
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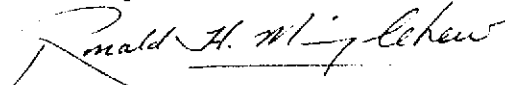
CUSTOMER: Dublin Multilayer, Inc.  
REQUESTER: John Chan  
PROJECT: Tank Overflow

RECEIVED  
JUL 22 1987  
DUBLIN MULTILAYER, INC.

Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Rinse Water Concentration</u>
EPA Method 7061:			
As	mg/l	0.0005	0.0026
EPA Method 7130:			
Cd	mg/l	0.04	< 0.04
EPA Method 7190:			
Cr	mg/l	0.03	< 0.03
EPA Method 7210:			
Cu	mg/l	0.05	2.4
EPA Method 7420:			
Pb	mg/l	0.2	< 0.2
EPA Method 7520:			
Ni	mg/l	0.07	< 0.07
EPA Method 236.1			
Fe	mg/l	0.06	0.64
EPA Method 9010:			
Cyanide	mg/l	0.01	< 0.01

Trace Analysis Laboratory is certified by the California Department of Health Services under Hazardous Waste Testing Laboratory Certificate No. 122.

  
Ronald H. Ming Chew  
Supervisory Chemist

RMC:tlh

DATALAB, INC.  
2171 Del Franco St.  
SAN JOSE, CA 95131  
(408) 943-1888

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AUG 5 1987  
DUBLIN MULTILAYER, INC.

Lab. Report #10880-1  
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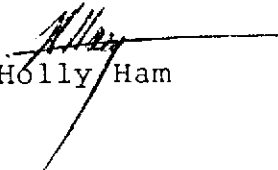
Dublin Multilayer  
Attn: John Chan  
6341 Scarlet Court  
Dublin, CA 94568

Subject: Chemical Analysis of Effluent  
Sample Received: 07/20/1987 17:36:03

Storm Drain Sample  
Chromium  
Copper  
Nickel  
Lead  
Arsenic

Found,  
0.20 mg/l  
0.90 mg/l  
0.17 mg/l  
0.36 mg/l  
0.80 mg/l

Datalab, Inc.

  
Holly Ham

HH:hh