

Western Operations

1252 Quarry Lane
Pleasanton, CA 94566
(415) 426-2600
Fax (415) 426-0106

x 2676

Clayton
ENVIRONMENTAL
CONSULTANTS

July 11, 1990

Clayton Project No. 29339.00

Mr. Chuck Lemoine
1367 52nd Avenue
Oakland, CA 94601

Subject: Tank Removal at
6085 Scarlett Court
Dublin, California

Dear Mr. Lemoine:

This letter report describes the removal of three 1,000-gallon tanks at the subject location (Figure 1).

The removal took place on June 11, 1990. The excavation was performed by Fuel Oil Polishing Company of 19336 Solano Court in Sonoma, California. The excavation and removal was observed by Mr. Gary Williams of Clayton Environmental Consultants, Inc. and Mr. Rovi Arulanantham, hazardous materials specialist for the Alameda County Department of Environmental Health. Mr. Williams also performed sampling.

After removal, the tanks were inspected by Mr. Williams and Mr. Arulanantham. Their inspection revealed numerous small holes in all three tanks. They also inspected the excavated tank hole. It was apparent that there had been leakage of tank product to the surrounding soil.

Mr. Williams took samples from the area that had been under the tank bottom. Three soil samples were collected, one approximately 2 feet below each tank bottom, as shown in Figure 2. The soil samples were collected in 1-1/2-by 6-inch brass tubes that were driven into the soil to obtain an undisturbed soil sample. After collection, the open ends were covered by aluminum foil and plastic caps and sealed with vinyl electrical tape.

After the soil samples were collected, a trench was dug approximately 2 feet wide and 3 feet long in the bottom center of the excavation, in an east/west direction (Figure 2). The trench was allowed to fill with water and a water sample was collected (Sample 4A).

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The samples were identified as described in the Clayton chain-of-custody. The samples were returned to Clayton's laboratory in Pleasanton, California, and analyzed for total petroleum hydrocarbons (TPH) as gasoline and benzene, toluene, ethylbenzene, and xylene (BTEX). Sample analyses results and chain-of-custody documentation are included in Attachment 1.

The analyses revealed that significant contamination remains in the excavation. Sample 3A north revealed 290 parts per million (ppm) TPH as gasoline and high levels of aromatic hydrocarbons (BTEX) as shown in Table 1 below.

TABLE 1
Sample Results

SAMPLE NUMBER	TPH as Gasoline (ppm)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylene (ppb)
1A North East Tank	220	4,000	20,000	3,500	15,000
2A South Middle Tank	98	800	1,800	2,000	11,000
3A North West Tank	290	3,200	11,000	4,600	23,000
3B South West Tank	77	600	ND	1,600	7,500
4A Water Sample	120	4,400	18,000	3,900	20,000

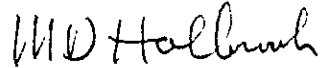
Based on analyses of the samples collected, it appears that additional excavation will be required. The excavated material can be aerated onsite (a permit may be required from the Bay Area Air Quality Management District).

Clayton recommends that contaminated water remaining in the excavation be pumped out and the excavation allowed to recharge until sampling reveals that the water is clean. The contaminated water removed from the hole should be disposed of as required by law. Borings may be required to determine the extent of the migration of the contamination. Borings may be converted to monitoring wells (to collect water samples) if analyses of soil samples from the boreholes reveals the presence of hydrocarbon contamination.

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July 11, 1990
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If you have any questions or comments regarding this report, please contact me at
(415) 426-2650.

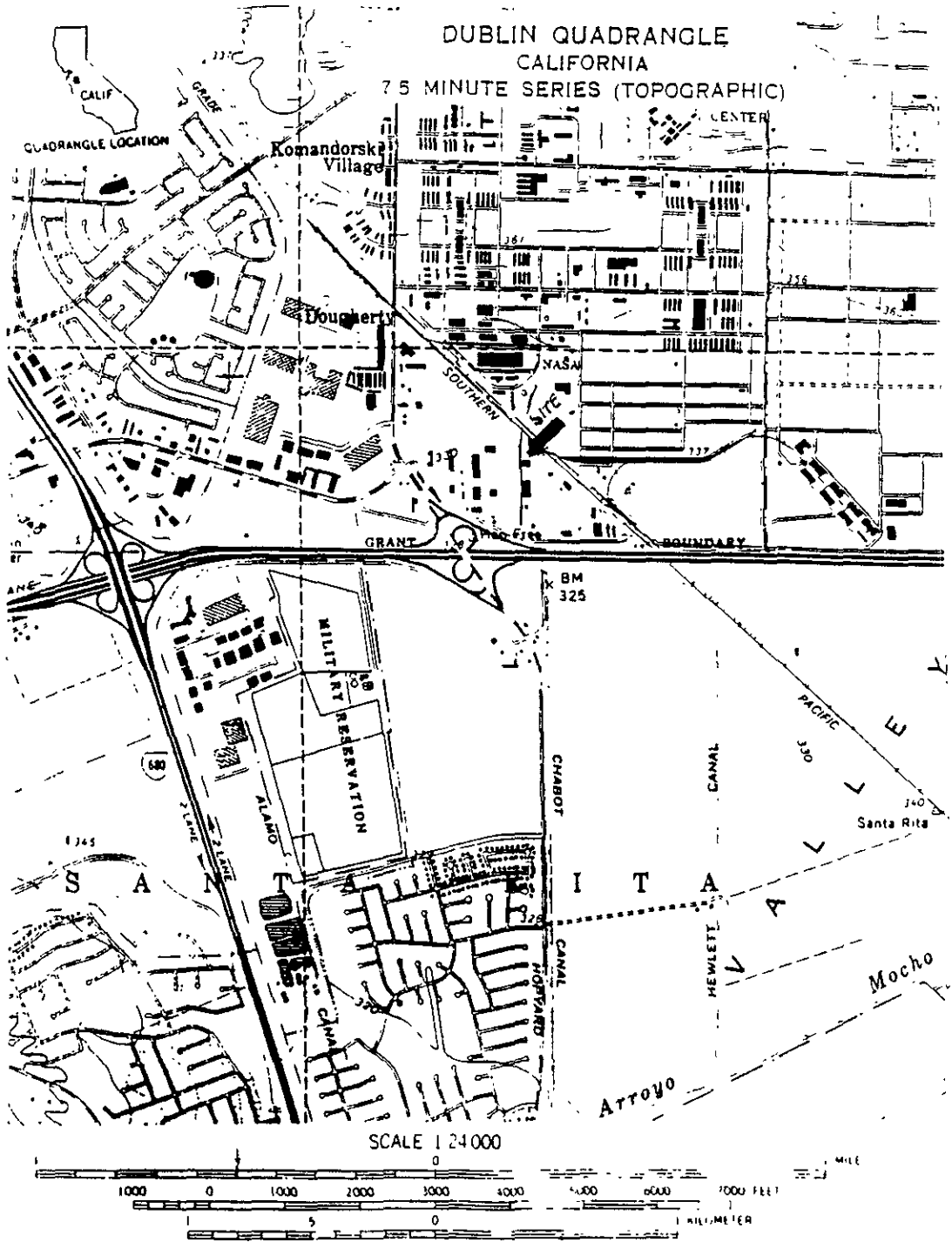
Sincerely,



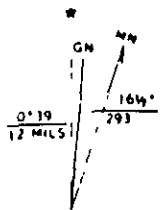
M.D. Holbrook
Supervisor, Field Operations

MDH/cmh
Enclosure

cc: Ravi Arulanantham



CONTOUR INTERVAL 40 FEET
 DOTTED LINES REPRESENT 10 FOOT CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



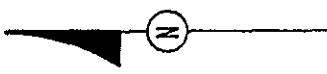
(not to scale)

Site Location Map
 6085 Scarlett Court
 Dublin, California
 Clayton Project No. 29339.00

Figure
 1

Clayton
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29339-00-16

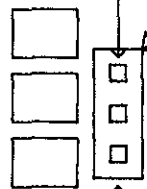


6805 Scarlett Ct.
Dublin, California

Estimated Direction
of Groundwater Flow
Based on Study Done
at Valley Nissan and
Scottsman



Three 500-Gallon
(Estimated)
Underground Tanks



Dispensing
Pumps

60'

Water
Well

135'

Empty
Building

140'

65'

Scottsman
Trailer
Manufacturing
Facility

← Approximately 1,000' to Site →

Scarlett Court

Drainage Ditch

← Camp Parks

U-HAUL
Rental
Yard

Tank Location Map
6085 Scarlett Court
Dublin, California

Clayton Project No. 29339.00

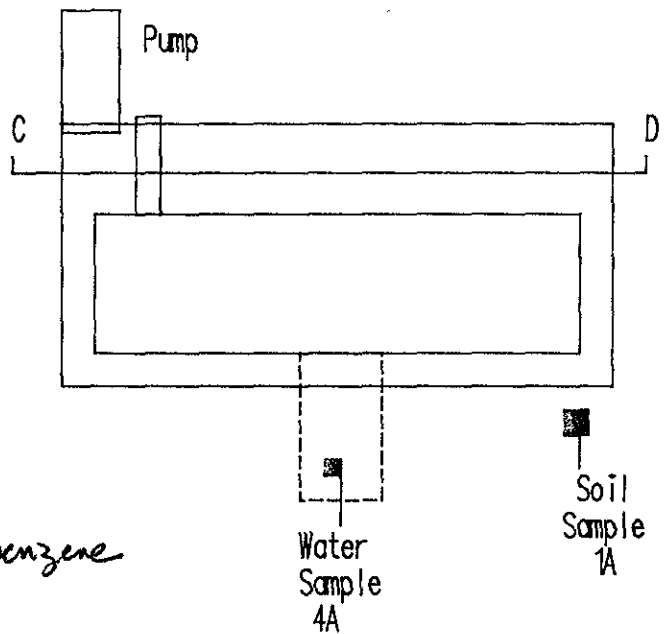
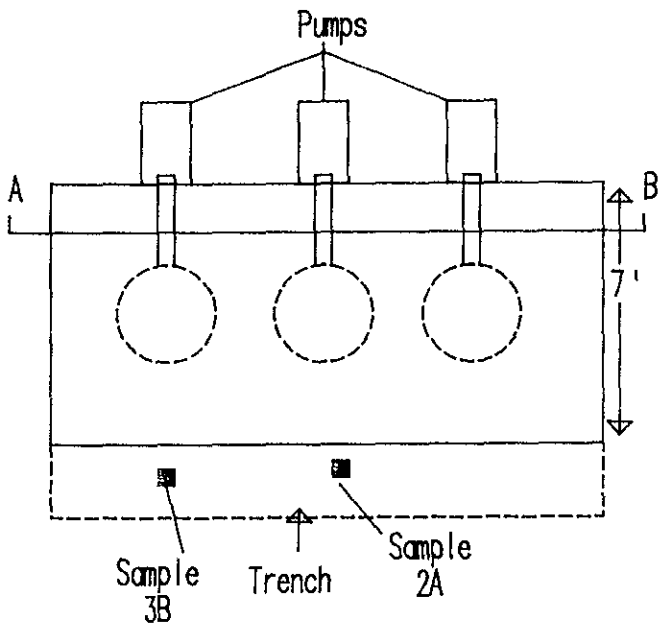
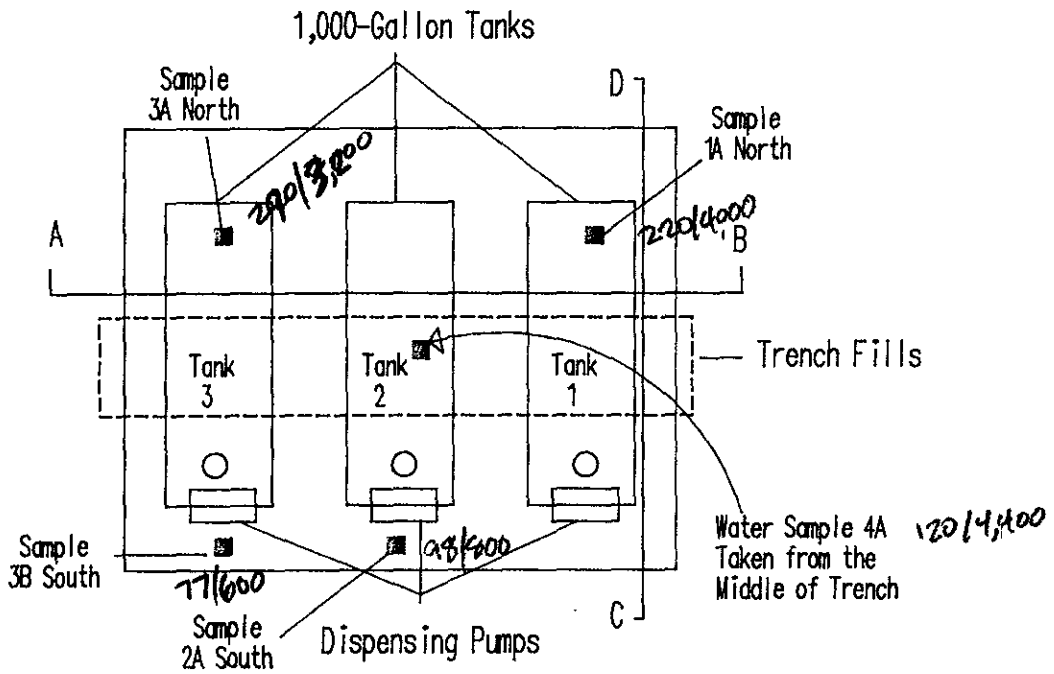
(not to scale)

Figure

2

29339-00-17

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ppm TPH-C1 / ppb benzene

Sample Location Map
6085 Scarlett Court
Dublin, California

Clayton Project No. 29339.00

(not to scale)

Figure

3

29339-00-18

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ATTACHMENT 1

**ANALYTICAL RESULTS AND
CHAIN-OF-CUSTODY DOCUMENTATION**

Western Operations

1252 Quarry Lane
Pleasanton, CA 94566
(415) 426-2600
Fax (415) 426-0106

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June 26, 1990

Mr. Mike Holbrook
CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
1252 Quarry Lane
Pleasanton, CA 94566

Client Ref. No. 29339.00
Work Order No. 9006088
Lab Client Code INT_EEP

Dear Mr. Holbrook:

Attached is our analytical laboratory report for the samples received on June 11, 1990. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Maryann Gambino, Client Services Representative, at (415) 426-2657.

Sincerely,



Ronald H. Peters, CIH
Director, Laboratory Services
Western Operations

RHP/tb
Attachments

EPA METHOD 8015/8020
 GASOLINE/BTEX

Sample I.D.: EAST TANK #1 NORTH Client: CHUCK LEMOINE
 Sample Received: 06/11/90 Client Ref. No.: 29339.00
 Sample Analyzed: 06/22/90 Lab Client Code: INT_EEP
 Sample Matrix: SOIL Lab No.: 9006088-01A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene	71-43-2	4,000	500
Toluene	108-88-3	20,000	500
Ethylbenzene	100-41-4	3,500	500
Xylenes	1330-20-7	15,000	500
Gasoline	-----	220,000	30000

ND = Not detected at or above limit of detection

EPA METHOD 8015/8020
 GASOLINE/BTEX

Sample I.D.: MID TANK #2 SOUTH Client: CHUCK LEMOINE
 Sample Received: 06/11/90 Client Ref. No.: 29339.00
 Sample Analyzed: 06/22/90 Lab Client Code: INT_EEP
 Sample Matrix: SOIL Lab No.: 9006088-02A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene	71-43-2	800	500
Toluene	108-88-3	1,800	500
Ethylbenzene	100-41-4	2,000	500
Xylenes	1330-20-7	11,000	500
Gasoline	-----	98,000	30000

ND = Not detected at or above limit of detection

EPA METHOD 8015/8020
 GASOLINE/BTEX

Sample I.D.: WEST TANK #3 NORTH Client: CHUCK LEMOINE
 Sample Received: 06/11/90 Client Ref. No.: 29339.00
 Sample Analyzed: 06/22/90 Lab Client Code: INT_EEP
 Sample Matrix: SOIL Lab No.: 9006088-03A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene	71-43-2	3,200	500
Toluene	108-88-3	11,000	500
Ethylbenzene	100-41-4	4,600	500
Xylenes	1330-20-7	23,000	500
Gasoline	-----	290,000	30000

ND = Not detected at or above limit of detection

EPA METHOD 8015/8020
 GASOLINE/BTEX

Sample I.D.: WEST TANK #3 SOUTH Client: CHUCK LEMOINE
 Sample Received: 06/11/90 Client Ref. No.: 29339.00
 Sample Analyzed: 06/22/90 Lab Client Code: INT_EEP
 Sample Matrix: SOIL Lab No.: 9006088-04A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene	71-43-2	600	500
Toluene	108-88-3	ND	500
Ethylbenzene	100-41-4	1,600	500
Xylenes	1330-20-7	7,500	500
Gasoline	-----	77,000	30000

ND = Not detected at or above limit of detection

EPA METHOD 8015/8020
 GASOLINE/BTEX

Sample I.D.: METHOD BLANK Client: CHUCK LEMOINE
 Sample Received: 06/11/90 Client Ref. No.: 29339.00
 Sample Analyzed: 06/22/90 Lab Client Code: INT_EEP
 Sample Matrix: SOIL Lab No.: 9006088-07B

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes	1330-20-7	ND	5
Gasoline	-----	ND	300

ND = Not detected at or above limit of detection

EPA METHOD 8015/8020
GASOLINE/BTEX

Sample I.D.: WATER TRENCH MID EXCAV. Client: CHUCK LEMOINE
 Sample Received: 06/11/90 Client Ref. No.: 29339.00
 Sample Analyzed: 06/20/90 Lab Client Code: INT_EEP
 Sample Matrix: WATER Lab No.: 9006088-05A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	4,400	200
Toluene	108-88-3	18,000	200
Ethylbenzene	100-41-4	3,900	200
Xylenes	1330-20-7	20,000	200
Gasoline	-----	120,000	30000

ND = Not detected at or above limit of detection

EPA METHOD 8015/8020
 GASOLINE/BTEX

Sample I.D.: METHOD BLANK Client: CHUCK LEMOINE
 Sample Received: 06/11/90 Client Ref. No.: 29339.00
 Sample Analyzed: 06/20/90 Lab Client Code: INT_EEP
 Sample Matrix: WATER Lab No.: 9006088-07A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	ND	0.4
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes	1330-20-7	ND	0.4
Gasoline	-----	ND	50

ND = Not detected at or above limit of detection

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See below	Client:	CHUCK LEMOINE
Sample Received:	06/11/90	Client Ref. No.:	29339.00
Sample Analyzed:	06/25/90	Lab Client Code:	INT_EEP
Sample Matrix:	Water	Lab No.:	9006088

Batch Sub. No.	Sample Identification	Lead* (mg/L)
-05	Water Trench Mid Excav.	0.11
-MB	Method Blank	<0.002
Limit of detection:		0.002
Method Reference:		EPA 7421

< Less than the indicated limit of detection (LOD)

* Sample was filtered through a 0.45 µm filter prior to analysis

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A Marsh & McLennan Company

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use Only	Page <u>1</u> of <u>1</u>	
Project No.	<u>29339.00</u>	
Batch No.	9006088	
Client No.		
Date Received	<u>6/11/90</u>	By <u>[Signature]</u>
Date Logged In	<u>6/12/90</u>	By <u>TS</u>

Purchase Order No.		Client Job No.		REPORT RESULTS TO	Name <u>MIDDLEBROOK X650</u>		Title							
Name <u>CHUCK LEMOINE</u>		Company <u>CEC</u>			Dept.									
Company <u>SAME</u>		Dept.			Mailing Address									
Address <u>1367 52ND AVE</u>					City, State, Zip									
City, State, Zip <u>OAKLAND, CA 94601</u>					Telephone No.		Telefax No.							
Date Results Required: <u>STANDARD T/A</u>		Rush Charges Authorized? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Number of Containers	ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added*)									
Special Instructions: (method, limit of detection, phone results, rush results, etc.) <u>5PPB (BTEX) <10 (TPH)</u>					BTEX TPH AS GAS METALS SILIC LEAD IN PLS METHOD HOLD									
* Explanation of Preservative: <u>HCL</u>														
CLIENT SAMPLE IDENTIFICATION		DATE SAMPLED	MATRIX/MEDIA			AIR VOLUME (specify units)	FOR LAB USE ONLY							
<u>1A EAST TANK #1 8.5' B.G. SOUTH NORTH END</u>		<u>6-11-90</u>	<u>SOIL</u>			<u>286 BC</u>								
<u>2A MID. TANK #2 8.5' B.G. SOUTH END</u>		<u>6-11-90</u>	<u>SOIL</u>	<u>1</u>										
<u>3A WEST TANK #3 8.5' B.G. NORTH END</u>		<u>6-11-90</u>	<u>SOIL</u>	<u>1</u>										
<u>3B WEST TANK #3 8.5' B.G. SOUTH END</u>		<u>6-11-90</u>	<u>SOIL</u>	<u>1</u>										
<u>4A WATER TRENCH MID EXCAVATION</u>		<u>6-11-90</u>	<u>H2O</u>	<u>2x 2L 2x 240ml (nd)</u>	<u>4</u>									
<u>TRIP BLANK 052420</u>			<u>H2O</u>	<u>340ml</u>	<u>1</u>									
CHAIN OF CUSTODY (if required)	Relinquished by: <u>[Signature]</u>	Date/Time: <u>6-11-90 1600</u>	Received by: <u>[Signature]</u>		Date/Time: <u>6/11/90 400p</u>									
	Relinquished by:	Date/Time:	Received at lab by: <u>[Signature]</u>		Date/Time:									
	Method of Shipment:	Sample condition upon receipt:												
Authorized by: _____		Date: _____												
		(Client Signature Must Accompany Request)												

Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

22345 Roethel Drive Novi, MI 48050 (313) 344-1770	Raritan Center 160 Fieldcrest Ave. Edison, NJ 08837 (201) 225-6040	400 Chastain Center Blvd., N.W. Suite 490 Kennesaw, GA 30144 (404) 499-7500	1252 Quarry Lane Pleasanton, CA 94566 (415) 426-2600
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DISTRIBUTION:
 WHITE - Clayton Laboratory
 YELLOW - Clayton Accounting
 PINK - Client Retains