pH7 ENVIRONMENTAL

92 AUG -5 7:10:04

August 3, 1992

Alameda County Dept. of Environmental health
Hazardous Materials Division
80 Swan Way, #200
Oakland, Ca 94612

AUG 1992

Attn: Mr. Ravi Arulanantham

Re: Lew Doty Cadillac
6301 Scarlett Court, Dublin
3rd Quarter Water Chemistry

Dear Mr. Arulanantham:

Enclosed is a copy of the 3rd Quarter Water Chemistry Report for the above referenced location. Copies have been forwarded to all of the appropriate agencies and interested parties.

The report should be self explanatory, but if you have any questions please call (510) 831-1957. It has been a pleasure working with you on this project.

Cordially submitted,

Stephen R. Clark
Principal

SRC/ivs

18211 Bollinger Canyon Road San Ramon CA 94583 (510) 831-1957 Telecopy (510) 838-2151

GROUND WATER MONITORING
Lew Doty Cadillac
6301 Scarlett Court, Dublin, Ca

THIRD QUARTER
WATER CHEMISTRY

Report Date: August 3, 1992

REGISTERED GEOLOGIST
DALE G. WILDER
No. 001054
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Dale G. Wilder
Certified Engineering Geologist
EG-001054

Stephen R. Clark
Project Geologist

18211 Bollinger Canyon Road San Ramon CA 94583 (510) 831-1957 Telecopy (510) 838-2151

GROUND WATER MONITORING
Lew Doty Cadillac
6301 Scarlett Court, Dublin, Ca

THIRD QUARTER
WATER CHEMISTRY

Report Date: August 3, 1992

INTRODUCTION

The above referenced location (refer to Figure 1) (hereafter referred to as the property or the subject site) has been recommended by the Alameda County Dept. of Environmental Health for environmental ground water monitoring. pH7 Environmental has retained by BCC Bancorp, the property owner, to perform quarterly ground water monitoring.

This report presents the third quarter water chemistry for the case known as Lew Doty Cadillac located at 6301 Scarlett Court, Dublin, CA (refer to Figures 1 & 2).

All geotechnical work was performed under the direction of Mr. Dale Wilder.
Mr. Wilder is a State of California Certified Engineering Geologist (CEG) and a State of California Professional Civil Engineer. Field work was performed by Stephen R. Clark, a project geologist for pH7 Environmental.

SAMPLING PROTOCOL

Water finding paste and gasoline finding paste were utilized to test for free product prior to sampling or purging, but none was detected. A minimum of three borehole volumes of water were purged by bailing before samples were taken using a Teflon sampling bailer. Care was taken during purging to minimize potential aeration. The field parameters of pH, electrical conductivity, and temperature were monitored, recorded and observed to stabilize during purging before the water was sampled (refer to Table I).

TABLE I
Field Parameters During Well Purging

Well	Date	Well Volumes	Temperature (f)	pH	Conductivity (*m*mhos)
MW-1	7/16/92	0	72	6.9	2.1
		1	70	6.9	2.1
		2	69	6.9	2.1
		3	69	6.9	2.1

MW-1 samples E8352 (TPHg & BTEX) and E8354 (TPH oil & diesel).
Note - No free product measured with gasoline & water finding paste.

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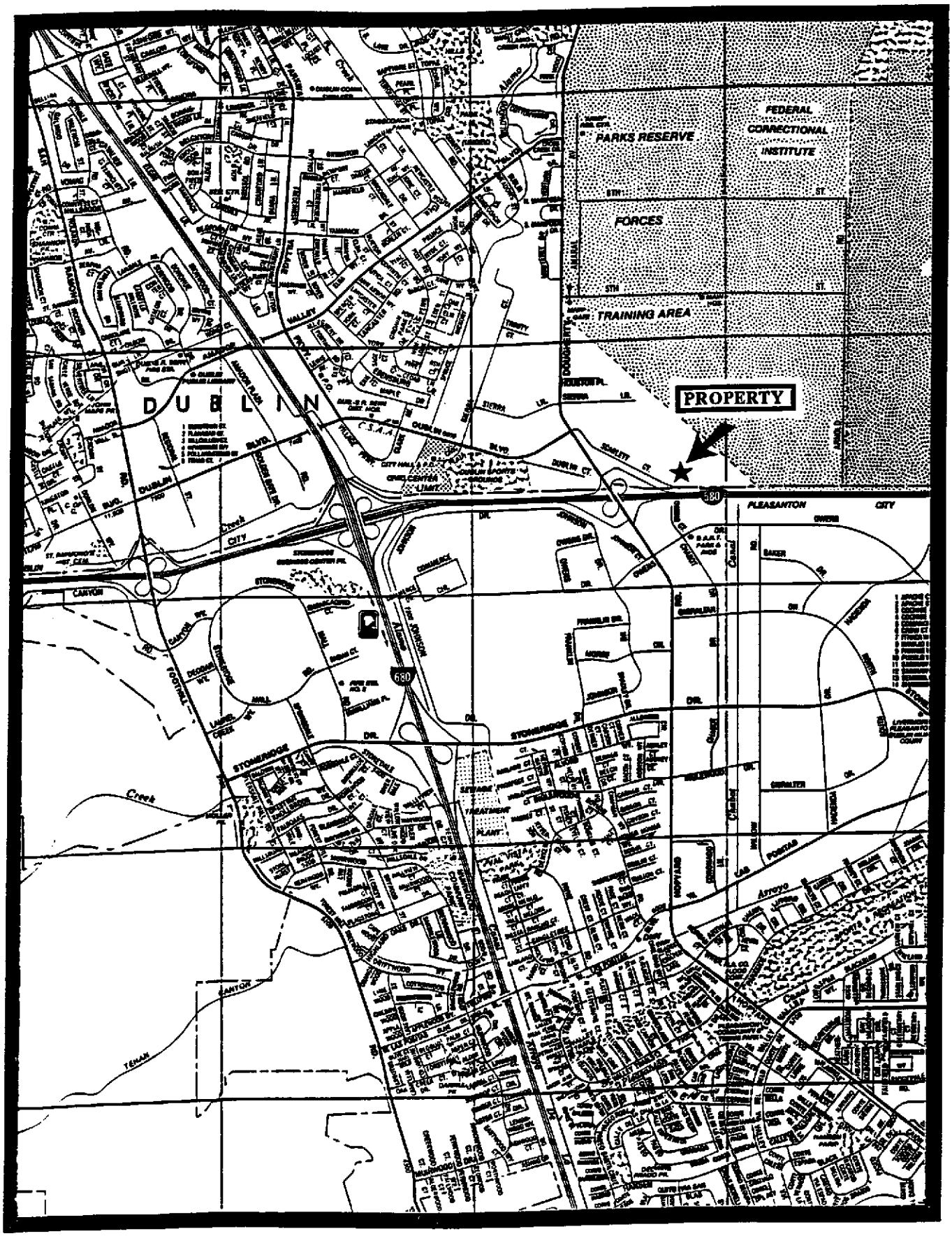

Figure 1
Local Vicinity Map

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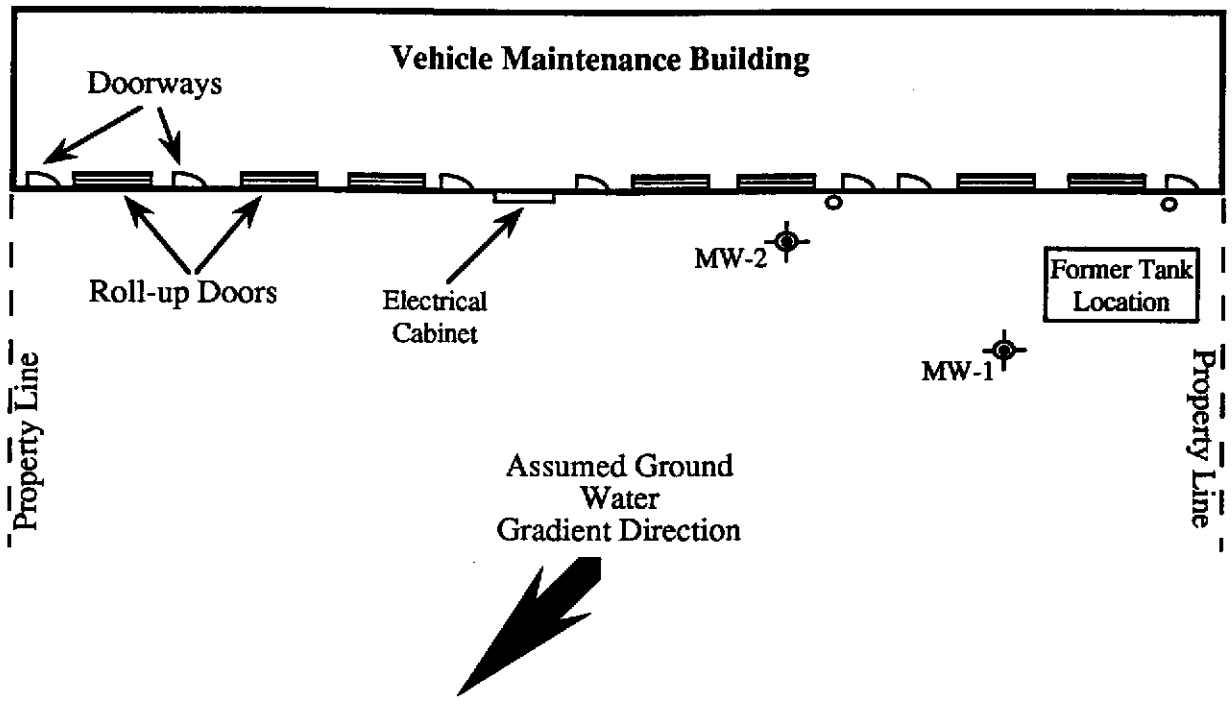

LEGEND

MW-1 Monitoring Well MW-1 (2")

MW-2 Monitoring Well MW-2 (2")

Sanitary Sewer Connection

NOT TO SCALE

Figure 2
Site Plan

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Well	Date	Well Volumes	Temperature (f)	pH	Conductivity (mmhos)
MW-2	7/16/92	0	74	7.2	1.6
		1	72	7.1	1.6
		2	72	7.2	1.6
		3	71	7.2	1.6

MW-2 samples E8356 (TPHg & BTEX) and E8358 (TPH oil & diesel).
Note - No free product measured with gasoline & water finding paste.

Water discharged during purging operations was stored in 55 gallon drums on site until final disposal. After analytical results of water samples, pH7 Environmental will provide recommendations for proper water disposal procedures. Disposal of the purge waters is the responsibility of the property owner.

Water samples were collected collected on July 16, 1992 using a clean Teflon bailer equipped with a ball valve and cotton cord. The bailer was decontaminated before each sampling by washing in a trisodium phosphate solution followed by a distilled water rinse. New lengths of clean, 100% cotton cord were used for each well. Samples were carefully decanted into 40 ml volatile organic analysis containers (VOA) and one liter amber sample bottles provided by the laboratory, placed in a shipping cooler with ice, and transported to a DHS certified laboratory (Quanteq in Pleasant Hill, CA). It was ensured that no air bubbles or head space were present in the full sample bottles. Chain of custody procedures were observed (refer to attachments). Laboratory analyses were EPA Methods 5030 GCFID and 8020 for TPH as gasoline (TPHg) and BTEX respectively, and Method 3510 GCFID for diesel and oil.

LABORATORY ANALYSES OF WATER SAMPLES

Water samples from the July 16, 1992 sampling round were submitted to the laboratory for TPHg, BTEX, and diesel/oil (purgeable hydrocarbons) analyses. Low levels of diesel were found in the ground water from both monitoring wells (refer to Tables II & III and Analytical Results).

TABLE II

MW-1
Analytical Results To Date
(ppm)

Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylene	Oil	Diesel
10/25/91	ND	ND	ND	ND	ND	ND	ND
1/17/92	ND	ND	ND	ND	ND	ND	ND
4/17/92	ND	.0004	ND	ND	ND	0.3	0.2
7/16/92	ND	ND	ND	ND	ND	ND	0.1

ND - None Detect (below the analytical detection limit)

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TABLE III

MW-2
Analytical Results To Date
(ppm)

Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylene	Oil	Diesel
10/25/91	ND	ND	ND	ND	ND	ND	ND
1/17/92	ND	ND	ND	ND	ND	ND	ND
4/17/92	ND	.0009	ND	ND	ND	0.2	0.2
7/16/92	ND	ND	ND	ND	ND	ND	0.66

ND - None Detect (below the analytical detection limit)

WATER LEVEL MEASUREMENTS

The static water levels (SWL) in MW-1 and MW-2 were 7.17 ft and 7.89 ft below the tops of their respective well casings on July 16, 1992. The wells have not been surveyed, but visually the elevation of the MW-2 well casing appears to be slightly higher than MW-1.

CONCLUSIONS

The water in the monitoring wells MW-1 and MW-2 contained low levels of diesel on July 16, 1992 (3rd Quarter Water Chemistry). This constituent was detected in the April 17, 1992 sampling round (2nd Quarter Water Chemistry). However, the low levels of benzene and oil observed in both wells during the 2nd Quarter were not present during the 3rd Quarter.

Two unknown compounds have been detected in the water samples from both monitoring wells in three of the four sampling rounds thus far performed.

October 25, 1991	Present
January 17, 1992	Not Present
April 17, 1992	Present
July 16, 1992	Present

cc: Mr. Ravi Arulanantham, Alameda County Health, Oakland
Mr. Eddy So, RWQCB, Oakland
Mr. Rene' Brochier, Bishop Hawk Real Estate, Santa Clara
Mr. Robert Heasman,CCB Bancorp,C/O Price Waterhouse, Victoria B. C.

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Quanteq Laboratories
An Ecologics Company

FORMERLY MED-TOX

Certificate of Analysis

DOHS CERTIFICATION NO. E772

AIHA ACCREDITATION NO. 332

PH7 ENVIRONMENTAL
18211 BOLLINGER CANYON RD.
SAN RAMON, CA 94583

ATTN: STEVE CLARK

CLIENT PROJ. ID: 6301 SCARLETT, DUBLIN

REPORT DATE: 07/28/92

DATE SAMPLED: 07/16/92

DATE RECEIVED: 07/16/92

QUANTEQ JOB NO: 9207137

ANALYSIS OF: GROUNDWATER SAMPLES

Client Sample Id.	Quanteq Lab Id.	Extractable Hydrocarbons as Diesel (mg/L)	Extractable Hydrocarbons as Oil (mg/L)
E8354	02A	0.1	ND
E8358	04A	0.66	ND
Detection Limit		0.05	0.2

Method: 3510 GCFID

Instrument: C

Date Extracted: 07/17/92
Date Analyzed: 07/21/92

ND = Not Detected

Andrew Bradeen, Manager
Organic Laboratory

Results FAXed 07/27/92

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SAMPLE ID: E8352
CLIENT PROJ. ID: 6301 SCARLETT, DUBLIN
DATE SAMPLED: 07/16/92
DATE RECEIVED: 07/16/92
REPORT DATE: 07/28/92

QUANTEQ LAB NO: 9207137-01A
QUANTEQ JOB NO: 9207137
DATE ANALYZED: 07/21/92
INSTRUMENT: F

BTEX AND HYDROCARBONS (WATER MATRIX)
METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	ND	0.3
Toluene	108-88-2	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1
PURGEABLE HYDROCARBONS AS:			
Gasoline		ND mg/L	0.05 mg/L

ND = Not Detected

This sample shows two unknown peaks.

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SAMPLE ID: E8356
CLIENT PROJ. ID: 6301 SCARLETT, DUBLIN
DATE SAMPLED: 07/16/92
DATE RECEIVED: 07/16/92
REPORT DATE: 07/28/92

QUANTEQ LAB NO: 9207137-03A
QUANTEQ JOB NO: 9207137
DATE ANALYZED: 07/21/92
INSTRUMENT: F

BTEX AND HYDROCARBONS (WATER MATRIX)
METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	ND	0.3
Toluene	108-88-2	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1
PURGEABLE HYDROCARBONS AS:			
Gasoline		ND mg/L	0.05 mg/L

ND = Not Detected

This sample shows two unknown peaks.

QUALITY CONTROL DATA

DATE EXTRACTED: 07/06/92
DATE ANALYZED: 07/08/92
CLIENT PROJ. ID: 6301 SCARLETT, DUBLIN

QUANTEQ JOB NO: 9207137
SAMPLE SPIKED: D.I. WATER
INSTRUMENT: C

MATRIX SPIKE RECOVERY SUMMARY
TPH EXTRACTABLE WATER
METHOD 3520 GCFID
(WATER MATRIX; EXTRACTION METHOD)

ANALYTE	Spike Conc. (mg/L)	Sample Result (mg/L)	MS Result (mg/L)	MSD Result (mg/L)	Average Percent Recovery	RPD
Diesel	2.51	ND	2.02	2.13	82.7	5.3

CURRENT QC LIMITS (Revised 08/15/91)

Analyte	Percent Recovery	RPD
Diesel	(49.3-101.4)	29.0

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

QUALITY CONTROL DATA

DATE ANALYZED: 07/21/92
SAMPLE SPIKED: 9207151-01A
CLIENT PROJ. ID: 6301 SCARLETT, DUBLIN

QUANTEQ JOB NO: 9207137
INSTRUMENT: F

MATRIX SPIKE RECOVERY SUMMARY
METHOD: EPA 8020, 5030 GCFID
(WATER MATRIX)

ANALYTE	Spike Conc. (ug/L)	Sample Result (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	Average Percent Recovery	RPD
Benzene	12.3	ND	13.9	13.9	113.0	0.0
Toluene	43.7	ND	47.7	46.6	101.9	2.3
Hydrocarbons as Gasoline	500	ND	486	456	94.2	6.4

CURRENT QC LIMITS (Revised 05/14/92)

Analyte	Percent Recovery	RPD
Benzene	(81.4-115.3)	10.2
Toluene	(85.3-112.4)	9.4
Gasoline	(72.0-119.4)	12.8

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

Reporting Information: K-1,2-F/R-31,2-4 Address Invoice To:

1. Client: PHZ ENVIRONMENTAL
Address: 1921 BOLLINGER CYN RD
SAN RAMON CA
Contact: STEVE CLARK
Alt. Contact:

3. SAME

Address Report To:

2. SAME

Send Invoice To:

4. SAME

Send Report To: 1 or 2 (Circle one)
Client project/P.O. #: 6301 SCARLETT, DUBLIN
Sample Team Member ('s)

Quanteq
An Ecologics Company

Page ____ of ____

REQUEST FOR ANALYSIS/ CHAIN OF CUSTODY

Lab Job Number: 9207137
Lab Destination:
Date Samples Shipped:
Lab Contact:
Date Verbals Required: Standard TAT
Date Report Required:
Client Contact PH. No.:
Client Contact Fax No.:

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type *	Pres.	No. of Cont.	Type of Cont.	ANALYSIS: TPH TRIEX	ANALYSIS: 5520 GCFID (Diesel + Oil)	Comments/Inst., Hazards, etc.
A	EB352		7/16/92	11			VOA	X		
B	EB353						11			DUP
A	EB354						AMBER		X	
B	EB355						11			DUP
A	EB356						VOA	X		
B	EB357						11			DUP
A	EB358						AMBER		X	
B	EB359						11			DUP
										STANDARD TAT

Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)	DATE TIME
Relinquished by: (Signature)		7/16/92 DATE	1336 TIME	Received by: (Signature)	DATE TIME
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)	DATE TIME
Method of Shipment				Lab Comments	
				Received by: (Signature) Denise Harrington	7/16/92 1336

* Sample type (Specify): 1) 25 mm 0.45 Um MCEF 2) 25 mm 0.8 Um MCEF 3) 25 mm 0.4 Um polycarb. filter 4) 37 mm 0.8 Um 5) PVC filter diam. ____ pore size ____
6) Charcoal tube 7) Silica gel tube 8) Waste Water 9) Soil 10) Bulk 11) Other GROUND WATER

COPIES: WHITE - JOB FILE • YELLOW - PROJECT FILE • PINK - CLIENT