



INTERNATIONAL
TECHNOLOGY
CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

Date: 07/16/91

IT Corporation, Martinez
4585 Pacheco Blvd.
Martinez, CA 94553
Brin Owen

Work Order: T1-06-299

P.O. Number: 161072

This is the Certificate of Analysis for the following samples:

Client Work ID: 161072 CDM-Emeryville

Date Received: 06/26/91

Number of Samples: 5

Sample Type: aqueous

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ALCO
HAEMAT
5th SEP - 8 AM '91

Reviewed and Approved:

Elizabeth M. Hager
Elizabeth M. Hager
Project Manager

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories
American Association for Laboratory Accreditation

Company: IT Corporation, Martinez
 Date: 07/16/91
 Client Work ID: 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
 SAN JOSE, CA

Work Order: T1-06-299

TEST NAME: Halocarbons by 8010/601

SAMPLE ID: MW406261230
 SAMPLE DATE: 06/26/91
 LAB SAMPLE ID: T106299-01
 SAMPLE MATRIX: aqueous
 RECEIPT CONDITION: Cool
 EXTRACTION DATE: N/A
 ANALYSIS DATE: 06/28/91

RESULTS in Micrograms per Liter

PARAMETER	DETECTION LIMIT	DETECTED
Chloromethane	0.5	None
Bromomethane	0.5	None
Vinyl chloride	0.5	None
Chloroethane	0.5	None
Methylene Chloride	0.5	None
1,1-Dichloroethene	0.5	None
1,1-Dichloroethane	0.5	None
Chloroform	0.5	None
1,2-Dichloroethane	0.5	None
1,1,1-Trichloroethane	0.5	None
Carbon tetrachloride	0.5	None
Bromodichloromethane	0.5	None
1,1,2,2-Tetrachloroethane	0.5	None
1,2-Dichloropropane	0.5	None
trans-1,3-dichloropropane	0.5	None
Trichloroethene	50.	4000.
Dibromochloromethane	0.5	None
1,1,2-Trichloroethane	0.5	None
cis-1,3-Dichloropropane	0.5	None
Bromoform	0.5	None
Tetrachloroethene	0.5	None
Dichlorodifluoromethane	0.5	None
Trichlorofluoromethane	0.5	None
cis-1,2-Dichloroethene	0.5	None
trans-1,2-Dichloroethene	0.5	None
Chlorobenzene	0.5	None
1,2-Dichlorobenzene	0.5	None
1,3-Dichlorobenzene	0.5	None
1,4-Dichlorobenzene	0.5	None
1,1,2-Trichlorotrifluoroethane	0.5	None
1-Chloro-2-fluorobenzene (Surr)	70-120%	89

Company: IT Corporation, Martinez
Date: 07/16/91
Client Work ID: 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
SAN JOSE, CA

Work Order: T1-06-299

TEST NAME: Metals Analysis

SAMPLE ID: MW406261230
SAMPLE DATE: 06/26/91
LAB SAMPLE ID: T106299-01
SAMPLE MATRIX: aqueous
RECEIPT CONDITION: Cool

RESULTS in Milligrams per Liter

PARAMETER	METHOD	DETECTION LIMIT	DETECTED
Chromium	6010	0.01	17.
Chromium (+6)	7196	0.01	17.8

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Company: IT Corporation, Martinez
 Date: 07/16/91
 Client Work ID: 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
 SAN JOSE, CA

Work Order: T1-06-299

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TEST NAME: Halocarbons by 8010/601

SAMPLE ID: MW506261115
 SAMPLE DATE: 06/26/91
 LAB SAMPLE ID: T106299-02
 SAMPLE MATRIX: aqueous
 RECEIPT CONDITION: Cool
 EXTRACTION DATE: N/A
 ANALYSIS DATE: 06/28/91

RESULTS in Micrograms per Liter

PARAMETER	DETECTION LIMIT	DETECTED
Chloromethane	0.5	None
Bromomethane	0.5	None
Vinyl chloride	0.5	None
Chloroethane	0.5	None
Methylene Chloride	0.5	None
1,1-Dichloroethene	0.5	None
1,1-Dichloroethane	0.5	None
Chloroform	0.5	None
1,2-Dichloroethane	0.5	None
1,1,1-Trichloroethane	0.5	None
Carbon tetrachloride	0.5	None
Bromodichloromethane	0.5	None
1,1,2,2-Tetrachloroethane	0.5	None
1,2-Dichloropropane	0.5	None
trans-1,3-dichloropropene	0.5	None
Trichloroethene	10.	600.
Dibromochloromethane	0.5	None
1,1,2-Trichloroethane	0.5	None
cis-1,3-Dichloropropene	0.5	None
Bromoform	0.5	None
Tetrachloroethene	0.5	None
Dichlorodifluoromethane	0.5	None
Trichlorofluoromethane	0.5	None
cis-1,2-Dichloroethene	0.5	None
trans-1,2-Dichloroethene	0.5	None
Chlorobenzene	0.5	None
1,2-Dichlorobenzene	0.5	None
1,3-Dichlorobenzene	0.5	None
1,4-Dichlorobenzene	0.5	None
1,1,2-Trichlorotrifluoroethane	0.5	None
1-Chloro-2-fluorobenzene (Surr)	70-120%	89

Company: IT Corporation, Martinez
Date: 07/16/91
Client Work ID: 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
SAN JOSE, CA

Work Order: T1-06-299

TEST NAME: Metals Analysis

SAMPLE ID: MW506261115
SAMPLE DATE: 06/26/91
LAB SAMPLE ID: T106299-02
SAMPLE MATRIX: aqueous
RECEIPT CONDITION: Cool

RESULTS in Milligrams per Liter

PARAMETER	METHOD	DETECTION LIMIT	DETECTED
Chromium	6010	0.01	390.
Chromium (+6)	7196	0.01	454.2

Company: IT Corporation, Martinez
 Date: 07/16/91
 Client Work ID: 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
 SAN JOSE, CA

Work Order: T1-06-299

TEST NAME: Halocarbons by 8010/601

SAMPLE ID: MW1206261340
 SAMPLE DATE: 06/26/91
 LAB SAMPLE ID: T106299-03
 SAMPLE MATRIX: aqueous
 RECEIPT CONDITION: Cool
 EXTRACTION DATE: N/A
 ANALYSIS DATE: 06/28/91

RESULTS in Micrograms per Liter

PARAMETER	DETECTION LIMIT	DETECTED
Chloromethane	0.5	None
Bromomethane	0.5	None
Vinyl chloride	0.5	None
Chloroethane	0.5	None
Methylene Chloride	0.5	None
1,1-Dichloroethene	0.5	None
1,1-Dichloroethane	0.5	None
Chloroform	0.5	None
1,2-Dichloroethane	0.5	None
1,1,1-Trichloroethane	0.5	None
Carbon tetrachloride	0.5	None
Bromodichloromethane	0.5	None
1,1,2,2-Tetrachloroethane	0.5	None
1,2-Dichloropropane	0.5	None
trans-1,3-dichloropropane	0.5	None
Trichloroethene	2.	140.
Dibromochloromethane	0.5	None
1,1,2-Trichloroethane	0.5	None
cis-1,3-Dichloropropane	0.5	None
Bromoform	0.5	None
Tetrachloroethene	0.5	None
Dichlorodifluoromethane	0.5	None
Trichlorofluoromethane	0.5	None
cis-1,2-Dichloroethene	0.5	None
trans-1,2-Dichloroethene	0.5	None
Chlorobenzene	0.5	None
1,2-Dichlorobenzene	0.5	None
1,3-Dichlorobenzene	0.5	None
1,4-Dichlorobenzene	0.5	None
1,1,2-Trichlorotrifluoroethane	0.5	None
1-Chloro-2-fluorobenzene (Surr)	70-120%	90

Company: IT Corporation, Martinez
Date: 07/16/91
Client Work ID: 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
SAN JOSE, CA

Work Order: T1-06-299

TEST NAME: Metals Analysis

SAMPLE ID: MW1206261340
SAMPLE DATE: 06/26/91
LAB SAMPLE ID: T106299-03
SAMPLE MATRIX: aqueous
RECEIPT CONDITION: Cool

RESULTS in Milligrams per Liter

PARAMETER	METHOD	DETECTION LIMIT	DETECTED
Chromium	6010	0.01	38.
Chromium (+6)	7196	0.01	29.7

Company: IT Corporation, Martinez
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 Client Work ID: 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
 SAN JOSE, CA

Work Order: T1-06-299

TEST NAME: Halocarbons by 8010/601

SAMPLE ID: MW1506261435
 SAMPLE DATE: 06/26/91
 LAB SAMPLE ID: T106299-04
 SAMPLE MATRIX: aqueous
 RECEIPT CONDITION: Cool
 EXTRACTION DATE: N/A
 ANALYSIS DATE: 06/28/91

RESULTS in Micrograms per Liter

PARAMETER	DETECTION LIMIT	DETECTED
Chloromethane	0.5	None
Bromomethane	0.5	None
Vinyl chloride	0.5	None
Chloroethane	0.5	None
Methylene Chloride	0.5	None
1,1-Dichloroethene	0.5	None
1,1-Dichloroethane	0.5	None
Chloroform	0.5	None
1,2-Dichloroethane	0.5	None
1,1,1-Trichloroethane	0.5	None
Carbon tetrachloride	0.5	None
Bromodichloromethane	0.5	None
1,1,2,2-Tetrachloroethane	0.5	None
1,2-Dichloropropane	0.5	None
trans-1,3-dichloropropene	0.5	None
Trichloroethene	10.	790.
Dibromochloromethane	0.5	None
1,1,2-Trichloroethane	0.5	None
cis-1,3-Dichloropropene	0.5	None
Bromoform	0.5	None
Tetrachloroethene	0.5	None
Dichlorodifluoromethane	0.5	None
Trichlorofluoromethane	0.5	None
cis-1,2-Dichloroethene	0.5	None
trans-1,2-Dichloroethene	0.5	None
Chlorobenzene	0.5	None
1,2-Dichlorobenzene	0.5	None
1,3-Dichlorobenzene	0.5	None
1,4-Dichlorobenzene	0.5	None
1,1,2-Trichlorotrifluoroethane	0.5	None
1-Chloro-2-fluorobenzene (Surr)	70-120%	88

Company: IT Corporation, Martinez
Date: 07/16/91
Client Work ID: 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
SAN JOSE, CA

Work Order: T1-06-299

TEST NAME: **Metals Analysis**

SAMPLE ID: MW1506261435
SAMPLE DATE: 06/26/91
LAB SAMPLE ID: T106299-04
SAMPLE MATRIX: aqueous
RECEIPT CONDITION: Cool

RESULTS in Milligrams per Liter

PARAMETER	METHOD	DETECTION LIMIT	DETECTED
Chromium	6010	0.01	0.03
Chromium (+6)	7196	0.01	None

IT ANALYTICAL SERVICES
SAN JOSE, CACompany: IT Corporation, Martinez
Date: 07/16/91
Client Work ID: 161072 CDM-Emeryville

Work Order: T1-06-299

TEST NAME: Spike and Spike Duplicates

SAMPLE ID: Quality Control
SAMPLE DATE: not spec
LAB SAMPLE ID: T106299-05A
EXTRACTION DATE: 06/26/91
ANALYSIS DATE: 06/26/91
ANALYSIS METHOD: Spectrophotomtr

QUALITY CONTROL REPORT

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Analyses

RESULTS in Milligrams per Liter

PARAMETER	Sample Amt	Spike Amt	MS Result	MSD Result	MS %Rec	MSD %Rec	RPD
Chromium (Hex.)	None	0.05	0.05	0.05	100.	100.	0.

Company: IT Corporation, Martinez
 Date: 07/16/91
 Client Work ID: 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
 SAN JOSE, CA

Work Order: T1-06-299

TEST NAME: Spike and Spike Duplicates

SAMPLE ID: Quality Control
 SAMPLE DATE: not spec
 LAB SAMPLE ID: T106299-05B
 EXTRACTION DATE:
 ANALYSIS DATE: 07/11/91
 ANALYSIS METHOD: Metals (ICP)

QUALITY CONTROL REPORT

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Analyses

RESULTS in Milligrams per Liter

PARAMETER	Sample Amt	Spike Amt	MS Result	MSD Result	MS %Rec	MSD %Rec	RPD
Chromium	None	2.0	2.05	2.02	102.5	101.	1.5

Company: IT Corporation, Martinez
 Date: 07/16/91
 Client Work ID# 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
 SAN JOSE, CA

Work Order: T1-06-299

TEST NAME: Spike and Spike Duplicates

SAMPLE ID: Quality Control
 SAMPLE DATE: not spec
 LAB SAMPLE ID: T106299-05C
 EXTRACTION DATE:
 ANALYSIS DATE: 06/27/91
 ANALYSIS METHOD: 601

QUALITY CONTROL REPORT

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Analyses

RESULTS in Micrograms per Liter

PARAMETER	Sample Amt	Spike Amt	MS Result	MSD Result	MS %Rec	MSD %Rec	RPD
Chlorobenzene	None	10.0	9.44	9.35	94.	94.	0.
1,1-Dichloroethene	None	10.0	9.46	9.28	95.	93.	0.
Trichloroethene	None	10.0	9.88	9.64	99.	96.	3.

SURROGATES	MS %Rec	MSD %Rec
1Chloro-2Fluorobenzene Halocarbons	95.	88.

Company: IT Corporation, Martinez
Date: 07/16/91
Client Work ID: 161072 CDM-Emeryville

IT ANALYTICAL SERVICES
SAN JOSE, CA

Work Order: T1-06-299

TEST CODE 601 TEST NAME Halocarbons by 8010/601

The method of analysis for volatile halocarbons is taken from EPA Methods 601 and 8010. Samples are examined using the purge and trap technique. Final detection is by gas chromatography using an electrolytic conductivity detector.

TEST CODE METALS TEST NAME Metals Analysis

The methods of analysis for metals are taken from E.P.A. protocol, using methods from SW-846, 3rd Edition or Methods for Chemical Analysis of Water and Wastes, 600/4-79-020. The method used is listed adjacent to the parameter in the table.

Case Narrative:

Metals analysis for Hexavalent and Total Chromium for sample MW506261115 produced levels of Hexavalent Cr greater than Total Cr. Total Cr was rerun on both bottles and yielded the following results:

T106299-02D Total Cr @ 390. ppm
Submitted for Total Cr analysis on MW506261115

T106299-02E Total Cr @ 465. ppm
Submitted for Hexavalent Cr analysis on MW506261115

These results support the data generated by the initial analysis. No apparent reason for the variable levels of Total Cr in two bottles of the same sample, with the exception of preservative being in the bottle for Total Cr analysis. It is not known if the presence of preservative would produce variable Cr results.



SAMPLING INFORMATION FORM

JOB NAME : ECT Fineyville

SAMPLE ID# : MW 406261730

JOB NUMBER : 161072

WELL NUMBER : MW-4

PURGE CALCULATIONS	DATE	TIME	INITIALS
MEASURED WELL DEPTH (19.95) ft.	6/26/91	1208	LLG
MEASURED WATER LEVEL DEPTH (6.57) ft.			
STATIC WATER HEIGHT (13.38) ft.			
CASED WELL VOLUME = STATIC WATER HEIGHT x 0.65 gpf (1.20) = (13.38) x 0.65 gpf			
REQUIRED PURGE VOLUME = CASED WELL VOLUME x 3 (3.65) = (1.20) x 3		↓ 1208	
ACTUAL PURGE VOLUME = (4) gal.		↓ 1215	↓
<input type="checkbox"/> PURGED DRY			
	START		
	STOP	6/26/91	1224 LLG

PURGE METHOD:

- PUMP SUBMERSIBLE BLADDER PNEUMATIC PERISTAL
 BAILER PVC TEFLON STAINLESS

DESCRIPTION OF PURGE WATER: yellowish
(INCLUDE COLOR, ODOR, ETC.)

WEATHER: 60's overcast
(INCLUDE TEMP., GENERAL CONDITION)

PURGE MEASUREMENTS

TEMP.(°C)	pH (S.U.)	CONDUCTIVITY (µmhos/cm)	TURBIDITY(NTU)	DATE	TIME	INITIAL
19.4	6.57	900 µmhos	/	6/26/91	1228	LLG
19.2	6.58	900 µmhos	/	6/26/91	1222	LLG
19.4	6.60	900 µmhos	/	6/26/91	1224	LLG
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/

SAMPLING INFORMATION FORM (CONT.)

JOB NAME : ECI EMBRYUS

SAMPLE ID# : MW 406261230

JOB NUMBER : 161072

WELL NUMBER : MW-4

SAMPLING METHOD:

- PUMP SUBMERSIBLE BLADDER PNEUMATIC PERISTALTIC
 BAILER PVC TEFLON LINE STAINLESS

FIELD INSTRUMENTS:

- pH
 TEMPERATURE
 CONDUCTIVITY
 TURBIDITY

BRAND	SERIAL / I.D.#
BECKMAN	0222027
BECKMAN	0222027
Ambic Science	E902025

	DATE	TIME	INITIAL
MEASURED WATER LEVEL DEPTH (BEFORE SAMPLING) = <u>6.65</u>	<u>6/26/51</u>	<u>1224</u>	<u>LLG</u>
MEASURED WATER LEVEL DEPTH (AFTER SAMPLING) = <u>6.58</u>	<u>6/26/51</u>	<u>1252</u>	<u>LLG</u>

DESCRIPTION OF SAMPLE WATER
(INCLUDE COLOR, ODOR, ETC.)

Yellowish no odor

SAMPLE MEASUREMENTS

TEMP.(°C)	pH (S.U.)	CONDUCTIVITY (umhos/cm)	TURBIDITY(NTU)	DATE	TIME	INITIAL
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/

PRINT NAME: LEE LAWS

PRINT NAME: GUY SHUM

SIGNATURE: [Signature]

SIGNATURE: [Signature]



SAMPLING INFORMATION FORM

JOB NAME : ECI EMERYVILLE

SAMPLE ID# : MWS06261115

JOB NUMBER : 161072

WELL NUMBER : MW-5

PURGE CALCULATIONS	DATE	TIME	INITIALS
MEASURED WELL DEPTH (1450) ft.	6/26/91	1045	LL, GS
MEASURED WATER LEVEL DEPTH (7.11) ft.			
STATIC WATER HEIGHT (7.39) ft.			
CASED WELL VOLUME = STATIC WATER HEIGHT x 0.09 (.665) = (7.39) x 0.09 gpi			
REQUIRED PURGE VOLUME = CASED WELL VOLUME x 3 (1.99) = (.665) x 3		↓	
ACTUAL PURGE VOLUME = (3) gal.	START	1035	
<input type="checkbox"/> PURGED DRY	STOP	1108	LL, GS

PURGE METHOD:

- PUMP
 SUBMERSIBLE
 BLADDER
 PNEUMATIC
 PERISTALTIC
 BAILER
 PVC
 TEFLON
 STAINLESS

DESCRIPTION OF PURGE WATER: Yellow/orange, no odor
(INCLUDE COLOR, ODOR, ETC.)

WEATHER: BUCLEARY 60S
(INCLUDE TEMP., GENERAL CONDITION)

PURGE MEASUREMENTS

TEMP.(°C)	pH (S.U.)	CONDUCTIVITY (µmhos/cm)	TURBIDITY(NTU)	DATE	TIME	INITIAL
17.5	5.86	2000 ^{2000 only} 009 µmhos	/	6/26/91	1058	LL, GS
17.1	5.87	2000 ^{2000 mhos} 009 µmhos	/	6/26/91	1103	LL, GS
17.4	5.82	2000 µmhos	/	6/26/91	1106	LL, GS
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/



SAMPLING INFORMATION FORM (CONT.)

JOB NAME : ECI Emryville

SAMPLE ID# : "161077" MW50626111

JOB NUMBER : 161077

WELL NUMBER : MW-5

SAMPLING METHOD:

- PUMP SUBMERSIBLE BLADDER PNEUMATIC PERISTAL
 BAILER PVC TEFLON STAINLESS
LINE

FIELD INSTRUMENTS:

- pH
 TEMPERATURE
 CONDUCTIVITY
 TURBIDITY

BRAND	SERIAL / I.D.#
BECKMAN	0222027
BECKMAN	0222027
Ambir Science	8500025

MEASURED WATER LEVEL DEPTH (BEFORE SAMPLING) =	DATE	TIME	INITIAL
<u>7.21</u>	<u>6/26/91</u>	<u>1114</u>	<u>LL, G.S.</u>
MEASURED WATER LEVEL DEPTH (AFTER SAMPLING) =			
<u>7.26</u>	<u>6/26/91</u>	<u>1125</u>	<u>LL, G.S.</u>

DESCRIPTION OF SAMPLE WATER
(INCLUDE COLOR, ODOR, ETC.)

yellow/orange no odor

SAMPLE MEASUREMENTS

TEMP.(°C)	pH (S.U.)	CONDUCTIVITY (umhos/cm)	TURBIDITY(NTU)	DATE	TIME	INITIAL
<u>16.2</u>	<u>5.83</u>	<u>2000 umhos</u>	/	<u>6/26/91</u>	<u>1115</u>	<u>LL, G.S.</u>
<u>16.8</u>	<u>5.81</u>	<u>2000 umhos</u>	/	<u>6/26/91</u>	<u>1118</u>	<u>LL, G.S.</u>
<u>16.2</u>	<u>5.82</u>	<u>2000 umhos</u>	/	<u>6/26/91</u>	<u>1121</u>	<u>LL, G.S.</u>
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/

PRINT NAME: LEE LAWS

PRINT NAME: Goystrom

SIGNATURE: [Signature]

SIGNATURE: [Signature]



SAMPLING INFORMATION FORM

JOB NAME : E C I Embroidery

SAMPLE ID# : MW1206261340

JOB NUMBER : 161072

WELL NUMBER : MW-12

PURGE CALCULATIONS	DATE	TIME	INITIALS
MEASURED WELL DEPTH (26.15) ft.	6/26/91	1300	LL, GS
MEASURED WATER LEVEL DEPTH (6.51) ft.			
STATIC WATER HEIGHT (19.64) ft.			
CASED WELL VOLUME = STATIC WATER HEIGHT x 0.65 gpf (12.77) = (19.64) x 0.65 gpf			
REQUIRED PURGE VOLUME = CASED WELL VOLUME x 3 (38.29) = (12.77) x 3			
ACTUAL PURGE VOLUME = (40) gal.		1312	
<input type="checkbox"/> PURGED DRY	START	1312	
	STOP	1335	LL, GS

PURGE METHOD:

- PUMP SUBMERSIBLE BLADDER PNEUMATIC PERISTAL
 BAILER PVC TEFLON STAINLESS

DESCRIPTION OF PURGE WATER: 60' Yellowish
(INCLUDE COLOR, ODOR, ETC.)

WEATHER: 100 overcast
(INCLUDE TEMP., GENERAL CONDITION)

PURGE MEASUREMENTS

TEMP.(°C)	pH (S.U.)	CONDUCTIVITY (µmhos/cm)	TURBIDITY(NTU)	DATE	TIME	INITIAL
19.5	5.76	600 µmhos	/	6/26/91	1320	LL, G.
19.1	5.65	700 µmhos	/	6/26/91	1325	LL, G.
18.8	5.62	700 µmhos	/	6/26/91	1332	LL, G.
/	/	/	/	/	/	/
/	/	/	/	/	/	/



SAMPLING INFORMATION FORM (CONT.)

JOB NAME : ECI Embrville

SAMPLE ID# : MW1206261340

JOB NUMBER : 161072

WELL NUMBER : MU-12

SAMPLING METHOD:

- PUMP SUBMERSIBLE BLADDER PNEUMATIC PERISTALTIC
 BAILER PVC TEFLON STAINLESS

FIELD INSTRUMENTS:

- pH
 TEMPERATURE
 CONDUCTIVITY
 TURBIDITY

BRAND	SERIAL / I.D.#
BECKMAN	0222027
BECKMAN	0222027
Amber science	8702025

MEASURED WATER LEVEL DEPTH (BEFORE SAMPLING) = 6.68 6/26/91 1338 LL60

MEASURED WATER LEVEL DEPTH (AFTER SAMPLING) = 6.60 6/26/91 1350 LL60

DESCRIPTION OF SAMPLE WATER
(INCLUDE COLOR, ODOR, ETC.) Yellow / smoky

SAMPLE MEASUREMENTS

TEMP.(°C)	pH (S.U.)	CONDUCTIVITY (umhos/cm)	TURBIDITY(NTU)	DATE	TIME	INITIAL
19.0	5.64	900 Umho	/	6/26/91	1342	LL60
18.9	5.62	900 Umho	/	6/26/91	1347	LL60
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/

PRINT NAME: LGG LAW

SIGNATURE: [Signature]

PRINT NAME: GUY SHUM

SIGNATURE: [Signature]



SAMPLING INFORMATION FORM

JOB NAME : ECT Emeryville

SAMPLE ID# : MW1506261435

JOB NUMBER : 164072

WELL NUMBER : MW-15

PURGE CALCULATIONS		DATE	TIME	INITIALS
MEASURED WELL DEPTH	(2445) ft.	6/26/91	1400	LL, G.S.
MEASURED WATER LEVEL DEPTH	(7.97) ft.		↓	
STATIC WATER HEIGHT	(16.48) ft.		↓	
CASED WELL VOLUME = STATIC WATER HEIGHT x 0.65 gpf (10.71) = (16.48) x 0.65 gpf			↓	
REQUIRED PURGE VOLUME = CASED WELL VOLUME x 3 (32.13) = (10.71) x 3		↓	1400	
ACTUAL PURGE VOLUME = (35) gal.		START	1415	↓
<input type="checkbox"/> PURGED DRY		STOP	6/26/91	LL, G.S.

PURGE METHOD:

- PUMP SUBMERSIBLE BLADDER PNEUMATIC PERISTALT
 BAILER PVC TEFLON STAINLESS

DESCRIPTION OF PURGE WATER: LT - med brown
(INCLUDE COLOR, ODOR, ETC.)

WEATHER: bc - overcast
(INCLUDE TEMP., GENERAL CONDITION)

PURGE MEASUREMENTS

TEMP.(°C)	pH (S.U.)	CONDUCTIVITY (µmhos/cm)	TURBIDITY(NTU)	DATE	TIME	INITIALS	
15.8	6.13	900 µmhos	/	6/26/91	1421	LL, G.S.	
18.7	6.62	900 µmhos			↓		1425
18.7	6.44	900 µmhos			↓		1427
18.7	6.38	900 µmhos			↓		1428
18.11	6.48	900 µmhos			↓		1430
/	/	/	/	/	/	/	



SAMPLING INFORMATION FORM (CONT.)

JOB NAME : ECI EMBRYLINE

SAMPLE ID# : MW1506261495

JOB NUMBER : 161072

WELL NUMBER : MW-15

SAMPLING METHOD:

- PUMP SUBMERSIBLE BLADDER PNEUMATIC PERISTALTIC
 BAILER PVC TEFLON STAINLESS

FIELD INSTRUMENTS:

- pH
 TEMPERATURE
 CONDUCTIVITY
 TURBIDITY

BRAND	SERIAL / I.D.#
BECKMAN	0722027
BECKMAN	0222027
Amber science	8502025

MEASURED WATER LEVEL DEPTH (BEFORE SAMPLING) = 8.22 DATE 6/26/91 TIME 1432 INITI. LL, GS

MEASURED WATER LEVEL DEPTH (AFTER SAMPLING) = 8.09 DATE 6/26/91 TIME 1447 INITI. LL, GS

DESCRIPTION OF SAMPLE WATER
(INCLUDE COLOR, ODOR, ETC.) TAN no odor

SAMPLE MEASUREMENTS

TEMP.(°C)	pH (S.U.)	CONDUCTIVITY (µmhos/cm)	TURBIDITY (NTU)	DATE	TIME	INITIALS
17.9	6.53	10000µmhos	/	6/26/91	1438	LL, GS
18.0	6.20	10000µmhos	/	6/26/91	1445	LL, GS
/	/	/	/	/	/	/
/	/	/	/	/	/	/
/	/	/	/	/	/	/

PRINT NAME: LEE LAWS
SIGNATURE: [Signature]

PRINT NAME: GUY SHRAW
SIGNATURE: [Signature]

PROJECT NAME/NUMBER COH-Emergencyville / 161072

 LAB DESTINATION ITHS San Jose

 SAMPLE TEAM MEMBERS L. KAWI C. SHROU

 CARRIER/WAYBILL NO. IT Courier

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
NW 10661230	MW-4	6/6/19 12:30	GRD. WATER	40 ml. Vials		
NW 1066201230	MW-4	6/6/19 12:30	GRD. WATER	500 ml		
NW 1066261230	MW-4	6/6/19 12:30	GRD. WATER	500 ml		
NW 1066281230	MW-5	6/6/19 11:5	GRD. WATER	40 ml. Vials		
NW 1066281115	MW-5	6/6/19 11:5	GRD. WATER	500 ml.		
NW 1066281115	MW-5	6/6/19 11:5	GRD. WATER	500 ml.		
NW 1206261340	MW-17	6/6/19 13:40	GRD. WATER	40 ml. Vials		
NW 1206261340	MW-12	6/6/19 13:40	GRD. WATER	500 ml.		
NW 1206261340	MW-17	6/6/19 13:40	GRD. WATER	500 ml.		

 Special Instructions: 24 hr T.N.T.

Unknown

Possible Sample Hazards: _____

SIGNATURES: (Name, Company, Date and Time)

 1. Relinquished By: [Signature] 6/14/19 15:00

3. Relinquished By: _____

 Received By: [Signature]

Received by: _____

2. Relinquished By: _____

4. Relinquished By: _____

Received By: _____

Received By: _____

REQUEST FOR ANALYSIS

R/A Control No. 254884

C/C Control No. 705582

PROJECT NAME COM-Emeroville
 PROJECT NUMBER 161072
 PROFIT CENTER NUMBER 4626
 PROJECT MANAGER Brian Owen
 BILL TO Brian Owen
4595 Pacheco Boulevard
Marlinoz, CA 94559
 PURCHASE ORDER NO. 161072

DATE SAMPLES SHIPPED 6/26/91
 LAB DESTINATION ITRS San Jose
 LABORATORY CONTACT Elizabeth Hager
 SEND LAB REPORT TO Brian Owen
4595 Pacheco Boulevard
Marlinoz, CA 94559
 DATE REPORT REQUIRED 24 hr TST
 PROJECT CONTACT Brian Owen
 PROJECT CONTACT PHONE NO. (415) 372-4100 X 3246

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
MW462626130	GROUNDWATER	3 X 40 ml. VOA's	HEH, Cool	TCE by 601	
MW462626130	GROUNDWATER	1 x 500 ml.	HNO3, Cool	TOTAL CHROME by 6010	
MW462626130	GROUNDWATER	1 x 500 ml.	NONE, Cool	HEXAVALENT CHROME by 7196	
MW462626130	GROUNDWATER	3 X 40 ml. VOA's	HEH, Cool	TCE by 601	
MW50626415	GROUNDWATER	1 x 500 ml.	HNO3, Cool	TOTAL CHROME by 6010	
MW50626415	GROUNDWATER	1 x 500 ml.	NONE, Cool	HEXAVALENT CHROME by 7196	
MW120626130	GROUNDWATER	3 X 40 ml. VOA's	HEH, Cool	TCE by 601	
MW262626140	GROUNDWATER	1 x 500 ml.	HNO3, Cool	TOTAL CHROME by 6010	
MW1206261786	GROUNDWATER	1 x 500 ml.	NONE, Cool	HEXAVALENT CHROME by 7196	

TURNAROUND TIME REQUIRED: (Rush must be approved by the Laboratory Project Manager.)
 Normal Rush X (Subject to rush surcharge.)
 QC LEVEL: (Levels II and III subject to surcharge; project-specific requirements must be submitted to lab before beginning work.)
 I II III Project Specific

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances.)
 Non-hazard Flammable Skin Irritant Highly Toxic Other
 (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, archive and disposal.)
 Return to Client Disposal by Lab X Archive (Indicate number of months.)

FOR LAB USE ONLY
 Received by Date/Time



**INTERNATIONAL
TECHNOLOGY
CORPORATION**

CHAIN-OF-CUSTODY RECORD

R/A Control No.

C/C Control No. 205581

PROJECT NAME/NUMBER CDM-Emergville / 161072

LAB DESTINATION ITIS San Jose

SAMPLE TEAM MEMBERS L. LAWSON C. SHAW

CARRIER/WAYBILL NO. IT Courier

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
MW1506221433	MW-15	6/16/11 1433	GRD. WATER	40 ml. Voa's		
MW1506221435	MW-15	6/16/11 1435	GRD. WATER	500 ml.		
MW1506221435	MW-15	6/16/11 1435	GRD. WATER	500 ml.		
			GRD. WATER	40 ml. Voa's		
			GRD. WATER	500 ml.		
			GRD. WATER	500 ml.		
			GRD. WATER	40 ml. Voa's		
			GRD. WATER	500 ml.		
			GRD. WATER	500 ml.		

Special Instructions: 24 hr 7-17-11

Possible Sample Hazards: Unknown

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: [Signature] 6/16/11 1433

Received By: [Signature]

2. Relinquished By: _____

Received By: _____

3. Relinquished By: _____

Received by: _____

4. Relinquished By: _____

Received By: _____

REQUEST FOR ANALYSIS

R/A Control No. 190759
C/C Control No. 205581

PROJECT NAME COA Embroid
PROJECT NUMBER 161072
PROFIT CENTER NUMBER 4674
PROJECT MANAGER Brin Owen
BILL TO • Brin Owen
4555 N. B. Highway 1144
1772 CA 94552
PURCHASE ORDER NO. 161072

DATE SAMPLES SHIPPED 6/26/81
LAB DESTINATION ITD: SAN JOSE
LABORATORY CONTACT ELIZABETH LARSON
SEND LAB REPORT TO Brin Owen
4555 N. B. Highway 1144
1772 CA 94552
DATE REPORT REQUIRED 24 H. T.O.T.
PROJECT CONTACT Brin Owen
PROJECT CONTACT PHONE NO. (415) 372 5200 x 5205

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
<u>MW1506261435</u>	<u>Groundwater</u>	<u>3 x 10 ml</u>	<u>COB</u>	<u>TCE by GC</u>	
<u>MW1506261435</u>	<u>Groundwater</u>	<u>500 ml</u>	<u>HNO3 acid</u>	<u>TRIAL CHLOR by F010</u>	
<u>MW1506261435</u>	<u>Groundwater</u>	<u>500 ml</u>	<u>COB</u>	<u>Hexavalent chrom by TSC</u>	

TURNAROUND TIME REQUIRED: (Rush must be approved by the Laboratory Project Manager.)
 Normal _____ Rush X (Subject to rush surcharge.)
 QC LEVEL: (Levels II and III subject to surcharge; project-specific requirements must be submitted to lab before beginning work.)
 I _____ II _____ III _____ Project Specific X

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances.)
 Non-hazard _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other unknown
 (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, archive and disposal.)
 Return to Client _____ Disposal by Lab X Archive _____ (Indicate number of months.)

FOR LAB USE ONLY
 Received by _____ Date/Time _____



CHAIN-OF-CUSTODY RECORD

R/A CONTROL NO. _____

C/C Control No. 205583PROJECT NAME/NUMBER CDM - Energyville / 161072LAB DESTINATION ITM: SMI 300SAMPLE TEAM MEMBERS L. Lewis G. S. SullivanCARRIER/WAYBILL NO. COPIER 12 117

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
<u>AW-4-6661230A</u>	<u>AW-4</u>	<u>6/2/19 1230</u>	<u>WATER</u>	<u>3x4mm jar</u>		
<u>AW-5-6661115A</u>	<u>AW-5</u>	<u>6/2/19 1115</u>	<u>WATER</u>	<u>3x4mm jar</u>		
<u>AW-12-6661311A</u>	<u>AW-12</u>	<u>6/2/19 1311</u>	<u>WATER</u>	<u>3x4mm jar</u>		
<u>AW-15-6661415A</u>	<u>AW-15</u>	<u>6/2/19 1415</u>	<u>WATER</u>	<u>3x4mm jar</u>		

Special Instructions: ARCHIVEPossible Sample Hazards: UNKNOWN**SIGNATURES: (Name, Company, Date and Time)**1. Relinquished By: L. Lewis 6/2/19 1500

3. Relinquished By: _____

Received By: [Signature]

Received by: _____

2. Relinquished By: _____

4. Relinquished By: _____

Received By: _____

Received By: _____

WHITE - To accompany samples
 YELLOW - Field copy

REQUEST FOR ANALYSIS

R/A Control No. 190758

C/C Control No. 703 13

PROJECT NAME CDM Company
 PROJECT NUMBER 161072
 PROFIT CENTER NUMBER 4626
 PROJECT MANAGER Brin Owen
 BILL TO Brin Owen
4555 Pinnacle Center
Madison, CA 95127
 PURCHASE ORDER NO. 161072

DATE SAMPLES SHIPPED 6/1/88
 LAB DESTINATION ITL San Jose
 LABORATORY CONTACT Elizabeth Hays
 SEND LAB REPORT TO Brin Owen
4555 Pinnacle Center
Madison, CA 95127
 DATE REPORT REQUIRED Archive
 PROJECT CONTACT Brin Owen
 PROJECT CONTACT PHONE NO. (415) 372-5100 x3305

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program	Special Instructions
16107206261150A	Groundwater	3 x 40 ml	Cool	TCE by GC	
16107206261151A	Groundwater	3 x 40 ml	Cool	TCE by GC	
16107206261152A	Groundwater	3 x 40 ml	Cool	TCE by GC	
16107206261153A	Groundwater	3 x 40 ml	Cool	TCE by GC	
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/

TURNAROUND TIME REQUIRED: (Rush must be approved by the Laboratory Project Manager.)
 Normal _____ Rush (Subject to rush surcharge.)
 OC LEVEL: (Levels II and III subject to surcharge; project-specific requirements must be submitted to lab before beginning work.)
 I _____ II _____ III _____ Project Specific

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances.)
 Non-hazard _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other None
 (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping, archive and disposal.)
 Return to Client _____ Disposal by Lab _____ Archive 3 (Indicate number of months.)

FOR LAB USE ONLY
 Received by _____ Date/Time _____