

**APPENDIX F**  
**FIELD GROUNDWATER CHEMICAL DATA**  
**(212 Pages)**

# HP Labs

148 S. VINEWOOD STREET

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9/27/2001

Uribe & Associates  
447 29th Street, Suite 200  
Oakland, CA 94609-3532

Project Name: Alameda Point  
Project No.: 60069-385B040103

Attention: Kyle Cockerham

HP Labs received and analyzed the following sample(s):

<u>Date Received</u>	<u>Quantity</u>	<u>Matrix</u>	<u>Date Received</u>	<u>Quantity</u>	<u>Matrix</u>
7/27/2001	3	Water	8/15/2001	8	Water
7/28/2001	6	Water	8/16/2001	11	Water
7/30/2001	10	Water	8/17/2001	14	Water
7/31/2001	17	Water	8/20/2001	15	Water
8/1/2001	12	Water/Soil	8/21/2001	18	Water
8/2/2001	9	Water	8/22/2001	14	Water
8/3/2001	8	Water	8/23/2001	24	Water
8/6/2001	6	Water	8/24/2001	13	Water
8/7/2001	11	Water/Soil	8/27/2001	6	Water
8/8/2001	13	Water	8/28/2001	11	Water
8/9/2001	20	Water	8/29/2001	13	Water
8/10/2001	4	Water	8/30/2001	11	Water
8/13/2001	11	Water	8/31/2001	8	Water
8/14/2001	12	Water	9/4/2001	2	Water

The samples were analyzed by one or more of the EPA methodologies or equivalent methods listed below.

TPH -- CA DHS "Total Petroleum Hydrocarbons"

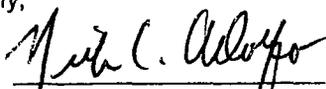
BTEX/MTBE -- EPA Method 8021

VOCs -- EPA Method 8260

The results are included with a summary of the quality control procedures. Please note that the symbol "nd" indicates a value below the reporting limit for the particular compound in the sample.

Please feel free to call us to discuss any part of this report or to schedule future projects.

Sincerely,

  
\_\_\_\_\_  
Nick C. Adolfo  
Operations Manager

HP Labs is certified by the California Department of Health Services (certificate #: 1194, 1561, 1921, 2088, 2278).

HP Project # UA071001-L4



Client: Uribe & Associates

Project: Alameda Point

**Case Narrative**

Results are included in this report for 5 samples for TPH-Gasoline and for 5 samples for TPH-JP4 that were not requested on the Chain-of-Custody form. These analyses were conducted at the request of field personnel.

The standard for JP-4 was not analyzed in the same analytical batch as the samples for which it was used to calculate results for JP-4. Therefore, results for JP-4 should be considered estimated.

The MS/MSD for TPH-Gasoline on 8/7/2001 was outside acceptable limits. It is speculated that the low recovery for the MSD was due to a spiking error and is not indicative of overall accuracy.

UA071001-L4



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S16-004	385-S16-003	385-S16-002	385-S05-068	385-S05-069
Analysis Date	30 Jul 2001					
Analysis Time	10:45am	11:19am	12:52pm	1:24pm	1:53pm	2:19pm
Dilution Factor:	0.1	0.1	10	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	< 100	nd	nd	nd	
Vinyl Chloride	1	nd	nd	< 100	nd	nd	nd	
Chloroethane	1	nd	nd	< 100	nd	nd	4.0	
1,1-Dichloroethene	1	nd	nd	< 100	nd	1.6	nd	
Methylene Chloride	1	nd	nd	< 100	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	< 100	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	< 100	nd	nd	1.1	
1,1-Dichloroethane	1	nd	nd	< 100	nd	7.4	6.8	
cis-1,2-Dichloroethene	1	nd	nd	< 100	5.2	nd	1.9	
1,1,1-Trichloroethane	1	nd	nd	< 100	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	< 100	nd	nd	nd	
Benzene	1	nd	nd	< 100	1.1	nd	0.8 J	
Trichloroethene	1	nd	nd	< 100	nd	nd	nd	
Toluene	1	nd	nd	< 100	nd	2.2	1.8	
1,1,2-Trichloroethane	1	nd	nd	< 100	nd	nd	nd	
Tetrachloroethene	1	nd	nd	< 100	nd	nd	nd	
Chlorobenzene	1	nd	nd	270	nd	2.3	3.1	
Ethylbenzene	1	nd	nd	< 100	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	< 100	nd	nd	nd	
m,p-Xylene	1	nd	nd	< 100	nd	1.2	nd	
o-Xylene	1	nd	nd	< 100	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	< 100	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	130	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	660	2.2	1.4	nd	
1,2-Dichlorobenzene	1	nd	3.0	2300	7.3	8.3	3.0	
Naphthalene	1	nd	nd	< 100	nd	nd	nd	
<b>Surrogates</b>	<b>Spiked</b>	<b>QC Limits(% Rec.)</b>		<b>Percent Recovery</b>				
DBFM	50 ng	50-150	92	93	117	84	77	87
1,2-DCA-d4	50 ng	50-150	71	63	92	58	53	58
Toluene - d8	50 ng	50-150	96	106	120	95	89	98
1,4-BFB	50 ng	50-150	110	123	142	104	100	113

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S05-070</b>	<b>385-S09-004</b>	<b>385-S09-005</b>	<b>385-S09-006</b>	<b>385-S09-007</b>	<b>385-S09-008</b>
Analysis Date	30 Jul 2001					
Analysis Time	2:48pm	3:19pm	5:29pm	6:01pm	6:34pm	7:08pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	11	4.6	1.1	
Chloroethane	1	4.8	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	23	5.4	1.2	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	0.7 J	2.1	0.5 J	1200 D	520 D	100	
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	0.8 J	nd	nd	nd	nd	nd	
Trichloroethene	1	nd	nd	nd	nd	nd	nd	
Toluene	1	2.1	nd	nd	nd	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	2.7	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	1.1	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	2.6	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	81	90	87	89	85	86
1,2-DCA-d4	50 ng	50-150	54	61	60	60	59	60
Toluene - d8	50 ng	50-150	93	101	96	101	94	91
1,4-BFB	50 ng	50-150	104	118	114	116	110	104

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260 (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S09-009	385-S05-065	385-S05-066	385-S05-067	385-S05-059
Analysis Date	31 Jul 2001					
Analysis Time	10:02am	11:41am	12:15pm	12:43pm	2:17pm	2:45pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	0.6 J	6.5	nd	nd	
Chloroethane	1	nd	nd	2.0	17	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	8.6	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	2.1	
1,1-Dichloroethane	1	nd	nd	33	490 D	nd	0.9 J	
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	1.3	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	nd	nd	nd	
Trichloroethene	1	nd	nd	nd	nd	nd	nd	
Toluene	1	nd	nd	4.1	4.2	3.0	6.7	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	1.0	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	3.2	2.6	1.7	5.0	
o-Xylene	1	nd	nd	1.2	nd	nd	1.8	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	1.3	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	93	85	82	80	90	82
1,2-DCA-d4	50 ng	50-150	70	53	57	55	62	54
Toluene - d8	50 ng	50-150	96	98	96	89	99	91
1,4-BFB	50 ng	50-150	112	111	116	105	120	111

Analyses performed by: JN



Report Summary  
EPA Method 8260 (5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	385-S05-060	385-S05-061	385-S05-062	385-S05-063	385-S05-064
Analysis Date	31 Jul 2001				
Analysis Time	3:13pm	5:46pm	6:18pm	6:48pm	7:20pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	8.4	1.4	
Chloroethane	1	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	1.4	2.7	nd	
1,1-Dichloroethane	1	0.7 J	nd	nd	0.7 J	nd	
cis-1,2-Dichloroethene	1	nd	nd	1.3	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	
Benzene	1	2.0	0.9 J	nd	0.5 J	4.2	
Trichloroethene	1	nd	nd	nd	nd	nd	
Toluene	1	8.9	1.9	6.0	2.2	2.9	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	
Ethylbenzene	1	1.1	nd	1.1	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	
m,p-Xylene	1	5.1	1.2	5.3	1.6	1.8	
o-Xylene	1	1.7	nd	1.9	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	81	79	82	75	77
1,2-DCA-d4	50 ng	50-150	52	60	57	56	55
Toluene - d8	50 ng	50-150	94	80	82	82	83
1,4-BFB	50 ng	50-150	113	73	76	70	73

Analyses performed by: JN



Report **mary**  
EPA Method 8260s (5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	BLANK	385-S21-016	385-S21-017	385-S21-018	385-S21-019	385-S21-008
Analysis Date	1 Aug 2001	1 Aug 2001	1 Aug 2001	1 Aug 2001	1 Aug 2001	1 Aug 2001
Analysis Time	9:35am	10:08am	10:40am	11:07am	11:39am	12:38pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	0.8	2.1
Chloroethane	1	nd	nd	nd	8.7	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	1.0	nd	nd
Methylene Chloride	1	nd	nd	nd	1.1	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	3.6
1,1-Dichloroethane	1	nd	nd	nd	97	130	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	15	8.0	7.9
1,1,1-Trichloroethane	1	nd	nd	nd	120	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	3.6	1.3	nd
Toluene	1	nd	3.9	8.3	3.1	1.9	2.6
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	2.6	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	1.2	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	3.0	5.8	2.0	1.2	1.9
o-Xylene	1	nd	1.2	2.5	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	84	76	77	75	73
1,2-DCA-d4	50 ng	50-150	72	58	52	52	58
Toluene - d8	50 ng	50-150	81	81	82	82	82
1,4-BFB	50 ng	50-150	67	66	69	68	68

Analyses performed by: JN



Report Summary  
EPA Method 8260B (5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	385-S21-009	385-S21-010	385-S04-029	385-S21-020	385-S04-030	385-S04-031
Analysis Date	1 Aug 2001					
Analysis Time	1:06pm	1:36pm	2:03pm	3:30pm	3:57pm	4:31pm
Dilution Factor:	0.1	0.1	0.1	1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	< 10	nd	nd	
Vinyl Chloride	1	nd	nd	nd	< 10	0.6 J	150 D	
Chloroethane	1	nd	nd	nd	< 10	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	< 10	1.6	5.7	
Methylene Chloride	1	nd	nd	nd	< 10	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	< 10	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	7.4	< 10	42	60	
1,1-Dichloroethane	1	nd	nd	0.9 J	< 10	1.3	7.9	
cis-1,2-Dichloroethene	1	nd	nd	35	< 10	150	860 D	
1,1,1-Trichloroethane	1	nd	nd	nd	< 10	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	< 10	nd	nd	
Benzene	1	nd	nd	nd	< 10	nd	nd	
Trichloroethene	1	nd	nd	1.7	< 10	98	1800 D	
Toluene	1	2.5	3.3	nd	< 10	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	< 10	nd	nd	
Tetrachloroethene	1	nd	nd	nd	< 10	nd	nd	
Chlorobenzene	1	nd	nd	nd	< 10	3.9	11	
Ethylbenzene	1	nd	nd	nd	< 10	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	< 10	nd	nd	
m,p-Xylene	1	1.5	1.8	nd	< 10	nd	nd	
o-Xylene	1	nd	nd	nd	< 10	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	< 10	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	< 10	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	< 10	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	< 10	nd	5.6	
Naphthalene	1	nd	nd	nd	< 10	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	76	80	75	77	73	81
1,2-DCA-d4	50 ng	50-150	54	63	54	58	52	63
Toluene - d8	50 ng	50-150	84	84	83	87	81	84
1,4-BFB	50 ng	50-150	70	73	69	69	66	76

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S04-032</b>	<b>385-S04-033</b>	<b>385-S04-034</b>	<b>385-S04-035</b>	<b>385-S04-036</b>	<b>385-S04-037</b>
Analysis Date	1 Aug 2001					
Analysis Time	4:57pm	5:27pm	5:58pm	6:30pm	7:01pm	7:33pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	2.2	1.1	0.9 J	nd	nd	
Chloroethane	1	nd	160 D	6.1	nd	nd	nd	
1,1-Dichloroethene	1	nd	33	3.9	200	8.3	6.7	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	5.2	nd	nd	
1,1-Dichloroethane	1	nd	64	3.5	62	9.5	9.7	
cis-1,2-Dichloroethene	1	1.6	nd	nd	6.5	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	3.1	nd	6.9	0.7 J	0.7 J	
Benzene	1	nd	nd	nd	nd	nd	nd	
Trichloroethene	1	3600 D	6.9	1.9	nd	nd	nd	
Toluene	1	nd	nd	nd	nd	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	2.9	nd	nd	
Tetrachloroethene	1	4.6	nd	nd	nd	nd	nd	
Chlorobenzene	1	2.6	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	1.0	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	10	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	77	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	76	79	77	76	77	75
1,2-DCA-d4	50 ng	50-150	53	59	53	60	55	54
Toluene - d8	50 ng	50-150	83	83	81	81	81	80
1,4-BFB	50 ng	50-150	72	76	69	68	65	61

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260s (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S21-011	385-S11-005	385-S11-904	385-S04-038	385-S04-039
Analysis Date	2 Aug 2001	2 Aug 2001	2 Aug 2001	2 Aug 2001	2 Aug 2001	2 Aug 2001
Analysis Time	9:47am	10:32am	11:30am	11:59am	3:00pm	3:32pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	nd	23
Chloroethane	1	nd	nd	nd	nd	nd	2.2
1,1-Dichloroethene	1	nd	nd	nd	nd	4.9	5600 D
Methylene Chloride	1	nd	nd	nd	nd	nd	1.9
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	43
1,1-Dichloroethane	1	nd	nd	nd	nd	6.6	2100 D
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	69
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	9.1
1,2-Dichloroethane	1	nd	nd	nd	nd	0.6 J	85
Benzene	1	nd	nd	nd	nd	nd	0.9 J
Trichloroethene	1	nd	nd	nd	nd	nd	5.9
Toluene	1	nd	1.3	3.1	nd	nd	5.3
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	50
Tetrachloroethene	1	nd	nd	nd	nd	nd	1.8
Chlorobenzene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	1.7	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	1.1
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	80	76	77	76	75
1,2-DCA-d4	50 ng	50-150	63	58	58	53	51
Toluene - d8	50 ng	50-150	82	83	82	81	82
1,4-BFB	50 ng	50-150	70	70	66	65	66

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S04-041</b>	<b>385-S04-042</b>	<b>385-S04-043</b>	<b>385-S04-044</b>	<b>385-S04-045</b>
Analysis Date	2 Aug 2001				
Analysis Time	7:21pm	7:50pm	8:19pm	8:47pm	9:16pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	4.9
Chloroethane	1	nd	nd	nd	nd	1.3
1,1-Dichloroethene	1	100	17	17	21	2000 D
Methylene Chloride	1	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	1.8	nd	nd	nd	14
1,1-Dichloroethane	1	17	4.3	1.5	19	310 D
cis-1,2-Dichloroethene	1	1.9	nd	nd	nd	29
1,1,1-Trichloroethane	1	nd	nd	nd	nd	6.4
1,2-Dichloroethane	1	3.1	1.1	nd	2.7	20
Benzene	1	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	4.3
Toluene	1	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	1	1.8	nd	nd	1.9	14
Tetrachloroethene	1	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>		
DBFM	50 ng	50-150	78	77	76	76
1,2-DCA-d4	50 ng	50-150	59	55	56	53
Toluene - d8	50 ng	50-150	82	80	82	79
1,4-BFB	50 ng	50-150	70	72	66	60

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5035 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: soil  
 Units: ug/kg

<b>Sample Name:</b>	<b>BLANK</b>	<b>385-S11-004</b>
Analysis Date	2 Aug 2001	2 Aug 2001
Analysis Time	9:47am	11:01am
Dilution Factor:	0.2	0.2

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	2	nd	nd
Vinyl Chloride	2	nd	nd
Chloroethane	2	nd	nd
1,1-Dichloroethene	2	nd	nd
Methylene Chloride	2	nd	nd
Methyl-t-butylether	2	nd	nd
trans-1,2-Dichloroethene	2	nd	nd
1,1-Dichloroethane	2	nd	nd
cis-1,2-Dichloroethene	2	nd	nd
1,1,1-Trichloroethane	2	nd	nd
1,2-Dichloroethane	2	nd	nd
Benzene	2	nd	nd
Trichloroethene	2	nd	nd
Toluene	2	nd	nd
1,1,2-Trichloroethane	2	nd	nd
Tetrachloroethene	2	nd	nd
Chlorobenzene	2	nd	nd
Ethylbenzene	2	nd	nd
1,1,1,2-Tetrachloroethane	2	nd	nd
m,p-Xylene	2	nd	nd
o-Xylene	2	nd	nd
1,1,2,2-Tetrachloroethane	2	nd	nd
1,3-Dichlorobenzene	2	nd	nd
1,4-Dichlorobenzene	2	nd	nd
1,2-Dichlorobenzene	2	nd	nd
Naphthalene	2	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>Percent Recovery</u>
DBFM	50 ng	50-150	80
1,2-DCA-d4	50 ng	50-150	63
Toluene - d8	50 ng	50-150	83
1,4-BFB	50 ng	50-150	70

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S04-040	385-S04-046	385-S04-047	385-S04-048	385-S04-049
Analysis Date	3 Aug 2001	3 Aug 2001	3 Aug 2001	3 Aug 2001	3 Aug 2001	3 Aug 2001
Analysis Time	9:21am	10:25am	10:56am	12:24pm	12:50pm	2:42pm
Dilution Factor:	0.1	0.1	2	1	1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	< 20	< 10	< 10	nd	nd	
Vinyl Chloride	1	nd	< 29	< 10	< 10	nd	nd	
Chloroethane	1	nd	< 20	< 10	< 10	nd	nd	
1,1-Dichloroethene	1	nd	20000 D	6600 D	2700 D	1200 D	14	
Methylene Chloride	1	nd	< 20	< 10	< 10	nd	nd	
Methyl-t-butylether	1	nd	< 20	< 10	< 10	nd	nd	
trans-1,2-Dichloroethene	1	nd	120	84	48	14	nd	
1,1-Dichloroethane	1	nd	2700	500	220	20	nd	
cis-1,2-Dichloroethene	1	nd	180	130	76	19	nd	
1,1,1-Trichloroethane	1	nd	56	< 10	< 10	2.7	nd	
1,2-Dichloroethane	1	nd	350	140	92	19	nd	
Benzene	1	nd	< 20	< 10	< 10	nd	nd	
Trichloroethene	1	nd	< 20	< 10	< 10	nd	nd	
Toluene	1	nd	< 20	< 10	< 10	nd	nd	
1,1,2-Trichloroethane	1	nd	260	140	80	20	nd	
Tetrachloroethene	1	nd	< 20	< 10	< 10	nd	nd	
Chlorobenzene	1	nd	< 20	< 10	< 10	nd	nd	
Ethylbenzene	1	nd	< 20	< 10	< 10	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	< 20	< 10	< 10	nd	nd	
m,p-Xylene	1	nd	< 20	< 10	< 10	nd	nd	
o-Xylene	1	nd	< 20	< 10	< 10	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	< 20	< 10	< 10	nd	nd	
1,3-Dichlorobenzene	1	nd	< 20	< 10	< 10	nd	nd	
1,4-Dichlorobenzene	1	nd	< 20	< 10	< 10	nd	nd	
1,2-Dichlorobenzene	1	nd	< 20	< 10	< 10	nd	nd	
Naphthalene	1	nd	< 20	< 10	< 10	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	85	79	81	81	77	77
1,2-DCA-d4	50 ng	50-150	70	66	65	63	57	54
Toluene - d8	50 ng	50-150	83	82	83	82	83	83
1,4-BFB	50 ng	50-150	75	74	74	71	69	71

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260s (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S04-050</b>	<b>385-S04-916</b>	<b>385-S10-001</b>	<b>385-S10-002</b>	<b>385-S10-003</b>
Analysis Date	3 Aug 2001				
Analysis Time	3:09pm	3:37pm	5:47pm	6:14pm	6:43pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	1.2	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd
Toluene	1	nd	nd	4.4	4.0	4.3
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	2.4	2.0	2.1
o-Xylene	1	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>		
DBFM	50 ng	50-150	76	74	76	75
1,2-DCA-d4	50 ng	50-150	52	51	54	53
Toluene - d8	50 ng	50-150	81	81	82	83
1,4-BFB	50 ng	50-150	68	66	68	66

Analyses performed by: JN



**Report Summary**  
**EPA Method 8210 (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S04-002	385-S04-003	385-S04-004	385-S04-005	385-S09-016
Analysis Date	6 Aug 2001	6 Aug 2001	6 Aug 2001	6 Aug 2001	6 Aug 2001	6 Aug 2001
Analysis Time	10:01am	10:32am	11:41am	12:16pm	12:45pm	1:49pm
Dilution Factor:	0.1	0.1	10	10	10	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	nd	< 100	< 100	< 100	nd
Vinyl Chloride	1	nd	1.4	< 100	< 100	< 100	3.7
Chloroethane	1	nd	nd	< 100	< 100	< 100	nd
1,1-Dichloroethene	1	nd	16000 D	15000	4800	2300	nd
Methylene Chloride	1	nd	1.3	< 100	< 100	< 100	nd
Methyl-t-butylether	1	nd	nd	< 100	< 100	< 100	nd
trans-1,2-Dichloroethene	1	nd	29	130	< 100	< 100	nd
1,1-Dichloroethane	1	nd	170	180	< 100	< 100	6.2
cis-1,2-Dichloroethene	1	nd	59	130	< 100	< 100	24
1,1,1-Trichloroethane	1	nd	2.8	< 100	< 100	< 100	nd
1,2-Dichloroethane	1	nd	37	160	< 100	< 100	nd
Benzene	1	nd	nd	< 100	< 100	< 100	1.0
Trichloroethene	1	nd	16	< 100	< 100	< 100	nd
Toluene	1	nd	nd	< 100	< 100	< 100	20
1,1,2-Trichloroethane	1	nd	53	120	< 100	< 100	nd
Tetrachloroethene	1	nd	nd	< 100	< 100	< 100	nd
Chlorobenzene	1	nd	nd	< 100	< 100	< 100	nd
Ethylbenzene	1	nd	nd	< 100	< 100	< 100	55
1,1,1,2-Tetrachloroethane	1	nd	nd	< 100	< 100	< 100	nd
m,p-Xylene	1	nd	nd	< 100	< 100	< 100	210
o-Xylene	1	nd	nd	< 100	< 100	< 100	83
1,1,2,2-Tetrachloroethane	1	nd	nd	< 100	< 100	< 100	nd
1,3-Dichlorobenzene	1	nd	nd	< 100	< 100	< 100	nd
1,4-Dichlorobenzene	1	nd	nd	< 100	< 100	< 100	nd
1,2-Dichlorobenzene	1	nd	nd	< 100	< 100	< 100	nd
Naphthalene	1	nd	nd	< 100	< 100	< 100	140
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	80	73	80	81	83
1,2-DCA-d4	50 ng	50-150	63	52	61	61	62
Toluene - d8	50 ng	50-150	81	81	83	82	83
1,4-BFB	50 ng	50-150	69	68	77	74	72

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S09-017</b>	<b>385-S09-018</b>	<b>385-S04-917</b>	<b>385-S16-023</b>	<b>385-S04-138</b>
Analysis Date	6 Aug 2001				
Analysis Time	2:52pm	3:19pm	3:48pm	4:19pm	4:49pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	nd
Chloroethane	1	2.7	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	4.2	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	22
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd
Benzene	1	1.6	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	82
Toluene	1	3.1	4.8	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
m,p-Xylene	1	2.0	4.0	nd	nd	nd
o-Xylene	1	nd	1.4	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd
Naphthalene	1	3.5	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>		
DBFM	50 ng	50-150	73	75	79	74
1,2-DCA-d4	50 ng	50-150	51	54	55	51
Toluene - d8	50 ng	50-150	82	82	83	82
1,4-BFB	50 ng	50-150	69	71	71	67

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S14-081	385-S14-082	385-S06-025	385-S06-028	385-S21-033
Analysis Date	7 Aug 2001	7 Aug 2001	7 Aug 2001	7 Aug 2001	7 Aug 2001	7 Aug 2001
Analysis Time	9:32am	10:21am	12:19pm	12:49pm	2:27pm	3:41pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	< 10	
Vinyl Chloride	1	nd	5.2	nd	nd	nd	< 10	
Chloroethane	1	nd	nd	nd	nd	nd	< 10	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	< 10	
Methylene Chloride	1	nd	nd	nd	nd	nd	< 10	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	< 10	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	< 10	
1,1-Dichloroethane	1	nd	1.8	nd	nd	nd	< 10	
cis-1,2-Dichloroethene	1	nd	1.8	nd	nd	nd	< 10	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	< 10	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	< 10	
Benzene	1	nd	nd	nd	nd	nd	< 10	
Trichloroethene	1	nd	nd	nd	nd	nd	< 10	
Toluene	1	nd	nd	nd	nd	nd	< 10	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	< 10	
Tetrachloroethene	1	nd	nd	nd	nd	nd	< 10	
Chlorobenzene	1	nd	nd	nd	nd	nd	< 10	
Ethylbenzene	1	nd	nd	nd	nd	nd	< 10	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	< 10	
m,p-Xylene	1	nd	nd	nd	nd	nd	< 10	
o-Xylene	1	nd	nd	nd	nd	nd	< 10	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	< 10	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	< 10	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	< 10	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	< 10	
Naphthalene	1	nd	nd	nd	nd	nd	< 10	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	79	77	83	86	84	88
1,2-DCA-d4	50 ng	50-150	61	57	53	62	57	64
Toluene - d8	50 ng	50-150	83	83	89	89	94	96
1,4-BFB	50 ng	50-150	72	69	78	78	85	90

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S14-083</b>	<b>385-S14-084</b>	<b>385-S21-030</b>	<b>385-S09-034</b>	<b>385-S04-141</b>	<b>385-S13-017</b>
Analysis Date	7 Aug 2001					
Analysis Time	4:43pm	5:09pm	5:41pm	6:09pm	6:45pm	7:24pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	7.7	0.9 J	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	1.3	4.4	1.3	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	1.0	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	85	84	85	87	87
1,2-DCA-d4	50 ng	50-150	61	59	62	60	58
Toluene - d8	50 ng	50-150	95	95	97	95	94
1,4-BFB	50 ng	50-150	88	84	84	86	87

Analyses performed by: JN



Report Summary  
EPA Method 8260B (5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	BLANK	385-S06-057	385-S06-058	385-S14-912	385-S13-014	385-S23-015
Analysis Date	8 Aug 2001	8 Aug 2001	8 Aug 2001	8 Aug 2001	8 Aug 2001	8 Aug 2001
Analysis Time	9:36am	10:45am	11:15am	12:23pm	3:06pm	4:16pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	2.7	nd	nd	nd	8.1
Chloroethane	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	15	nd	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd
Benzene	1	nd	0.8 J	nd	nd	nd	nd
Trichloroethene	1	nd	5.3	nd	nd	nd	nd
Toluene	1	nd	9.2	5.1	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	1.2	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	5.8	3.9	nd	nd	1.4
o-Xylene	1	nd	2.1	1.2	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd	21
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	98	90	90	92	91
1,2-DCA-d4	50 ng	50-150	70	61	60	60	65
Toluene - d8	50 ng	50-150	100	98	98	101	100
1,4-BFB	50 ng	50-150	92	91	90	92	91

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S05-124</b>	<b>385-S05-121</b>	<b>385-S14-052</b>	<b>385-S14-055</b>
Analysis Date	8 Aug 2001	8 Aug 2001	8 Aug 2001	8 Aug 2001
Analysis Time	5:13pm	5:38pm	6:04pm	6:29pm
Dilution Factor:	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	1.0	nd
o-Xylene	1	nd	nd	nd	nd
1,1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>	
DBFM	50 ng	50-150	91	90	97
1,2-DCA-d4	50 ng	50-150	61	58	62
Toluene - d8	50 ng	50-150	101	101	101
1,4-BFB	50 ng	50-150	90	89	94

Analyses performed by: JN



Client: Uribe & Associates  
Project: Alameda Point

Matrix: soil  
Units: ug/kg

<b>Sample Name:</b>	<b>BLANK</b>	<b>385-S04-057</b>
Analysis Date	8 Aug 2001	8 Aug 2001
Analysis Time	9:36am	11:57am
Dilution Factor:	0.2	0.2

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>
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Chloromethane	2	nd	nd
Vinyl Chloride	2	nd	nd
Chloroethane	2	nd	nd
1,1-Dichloroethene	2	nd	nd
Methylene Chloride	2	nd	nd
Methyl-t-butylether	2	nd	nd
trans-1,2-Dichloroethene	2	nd	nd
1,1-Dichloroethane	2	nd	nd
cis-1,2-Dichloroethene	2	nd	nd
1,1,1-Trichloroethane	2	nd	nd
1,2-Dichloroethane	2	nd	nd
Benzene	2	nd	nd
Trichloroethene	2	nd	nd
Toluene	2	nd	nd
1,1,2-Trichloroethane	2	nd	nd
Tetrachloroethene	2	nd	nd
Chlorobenzene	2	nd	nd
Ethylbenzene	2	nd	nd
1,1,1,2-Tetrachloroethane	2	nd	nd
m,p-Xylene	2	nd	nd
o-Xylene	2	nd	nd
1,1,2,2-Tetrachloroethane	2	nd	nd
1,3-Dichlorobenzene	2	nd	nd
1,4-Dichlorobenzene	2	nd	nd
1,2-Dichlorobenzene	2	nd	nd
Naphthalene	2	nd	nd

<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>Percent Recovery</u>
DBFM	50 ng	50-150	98
1,2-DCA-d4	50 ng	50-150	70
Toluene - d8	50 ng	50-150	100
1,4-BFB	50 ng	50-150	92

Analyses performed by: JN



Report Summary  
EPA Method 8260B (5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	BLANK	385-S04-058	385-S06-052	385-S06-053	385-S06-054	385-S06-059
Analysis Date	9 Aug 2001	9 Aug 2001	9 Aug 2001	9 Aug 2001	9 Aug 2001	9 Aug 2001
Analysis Time	9:37am	10:17am	10:42am	11:07am	11:33am	3:20pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	nd	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	1.5	nd	
1,1-Dichloroethane	1	nd	nd	nd	0.6 J	nd	nd	
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	31	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	nd	nd	nd	
Trichloroethene	1	nd	nd	nd	nd	nd	nd	
Toluene	1	nd	4.0	2.5	1.3	1.2	1.1	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	2.2	1.3	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	99	94	92	91	95	105
1,2-DCA-d4	50 ng	50-150	71	63	63	57	60	82
Toluene - d8	50 ng	50-150	102	103	102	102	101	100
1,4-BFB	50 ng	50-150	90	96	94	94	89	106

Analyses performed by: JN

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S06-056</b>	<b>385-S06-055</b>	<b>385-S21-046</b>	<b>385-S21-047</b>	<b>385-S03-087</b>
Analysis Date	9 Aug 2001				
Analysis Time	3:45pm	6:19pm	6:44pm	7:09pm	7:34pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	13
Vinyl Chloride	1	nd	nd	0.6 J	nd	1.7
Chloroethane	1	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	2.6	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	3.1	nd	nd
cis-1,2-Dichloroethene	1	6.7	nd	nd	nd	22
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	1400 D
Trichloroethene	1	2.6	nd	nd	nd	nd
Toluene	1	nd	nd	1.7	1.4	3.2
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd
Tetrachloroethene	1	2.9	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	1.2
Ethylbenzene	1	nd	nd	nd	nd	72
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	1.2	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	3.3
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>		
DBFM	50 ng	50-150	95	93	91	91
1,2-DCA-d4	50 ng	50-150	64	66	61	61
Toluene - d8	50 ng	50-150	101	99	101	100
1,4-BFB	50 ng	50-150	98	96	89	89

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S03-088	385-S21-048	385-S21-049	385-S21-050	385-S09-043
Analysis Date	10 Aug 2001					
Analysis Time	9:22am	10:31am	11:41am	12:07pm	1:31pm	1:56pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	3.9	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	1.6	12	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	3.1	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	1.2	8.2	nd	nd	
1,1-Dichloroethane	1	nd	nd	nd	nd	2.8	nd	
cis-1,2-Dichloroethene	1	nd	nd	nd	540 D	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	680 D	0.5 J	0.5 J	nd	nd	
Trichloroethene	1	nd	nd	nd	2300 D	1.2	nd	
Toluene	1	nd	12	1.0	nd	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	1.9	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	4.2	nd	nd	nd	nd	
o-Xylene	1	nd	2.1	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<b>Surrogates</b>	<b>Spiked</b>	<b>QC Limits(% Rec.)</b>		<b>Percent Recovery</b>				
DBFM	50 ng	50-150	97	91	93	90	86	94
1,2-DCA-d4	50 ng	50-150	70	67	60	56	59	60
Toluene - d8	50 ng	50-150	97	99	102	100	97	101
1,4-BFB	50 ng	50-150	82	95	96	91	96	95

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S03-908</b>	<b>385-S09-044</b>	<b>385-S04-177</b>	<b>385-S04-178</b>	<b>385-S04-179</b>
Analysis Date	10 Aug 2001				
Analysis Time	3:51pm	4:17pm	5:08pm	5:39pm	6:17pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd	0.7 J
cis-1,2-Dichloroethene	1	nd	1.7	nd	1.5	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd
Benzene	1	nd	0.9 J	nd	nd	nd
Trichloroethene	1	nd	nd	nd	630 D	610 D
Toluene	1	nd	1.0	2.5	2.2	1.6
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	1.7	1.5	1.2
o-Xylene	1	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>		
DBFM	50 ng	50-150	91	94	94	93
1,2-DCA-d4	50 ng	50-150	60	61	59	57
Toluene - d8	50 ng	50-150	101	103	103	101
1,4-BFB	50 ng	50-150	92	95	99	98

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S04-180	385-S16-036	385-S04-181	385-S04-182	385-S04-183
Analysis Date	13 Aug 2001					
Analysis Time	11:27am	1:41pm	2:47pm	3:18pm	4:32pm	5:04pm
Dilution Factor:	0.1	0.1	1	0.1	0.1	2

Compound	E.Q.L	Amount Found					
Chloromethane	1	nd	< 10	nd	nd	< 20	< 20
Vinyl Chloride	1	nd	< 10	0.7 J	14	< 20	< 20
Chloroethane	1	nd	< 10	nd	nd	< 20	< 20
1,1-Dichloroethene	1	nd	< 10	nd	2000 D	3400	280
Methylene Chloride	1	nd	< 10	nd	nd	< 20	< 20
Methyl-t-butylether	1	nd	< 10	nd	nd	< 20	< 20
trans-1,2-Dichloroethene	1	nd	< 10	nd	38	56	< 20
1,1-Dichloroethane	1	nd	< 10	nd	530 D	610	42
cis-1,2-Dichloroethene	1	nd	49	nd	75	99	< 20
1,1,1-Trichloroethane	1	nd	< 10	nd	nd	< 20	< 20
1,2-Dichloroethane	1	nd	< 10	nd	58	87	< 20
Benzene	1	nd	< 10	nd	nd	< 20	< 20
Trichloroethene	1	nd	2100 D	nd	6.6	< 20	< 20
Toluene	1	nd	< 10	3.8	nd	< 20	< 20
1,1,2-Trichloroethane	1	nd	< 10	nd	43	78	< 20
Tetrachloroethene	1	nd	< 10	nd	nd	< 20	< 20
Chlorobenzene	1	nd	< 10	nd	nd	< 20	< 20
Ethylbenzene	1	nd	< 10	nd	nd	< 20	< 20
1,1,1,2-Tetrachloroethane	1	nd	< 10	nd	nd	< 20	< 20
m,p-Xylene	1	nd	< 10	2.2	nd	< 20	< 20
o-Xylene	1	nd	< 10	nd	nd	< 20	< 20
1,1,2,2-Tetrachloroethane	1	nd	< 10	nd	nd	< 20	< 20
1,3-Dichlorobenzene	1	nd	< 10	nd	nd	< 20	< 20
1,4-Dichlorobenzene	1	nd	< 10	nd	nd	< 20	< 20
1,2-Dichlorobenzene	1	nd	< 10	nd	nd	< 20	< 20
Naphthalene	1	nd	< 10	nd	nd	< 20	< 20

Surrogates	Spiked	QC Limits(% Rec.)	Percent Recovery
DBFM	50 ng	50-150	98
1,2-DCA-d4	50 ng	50-150	72
Toluene - d8	50 ng	50-150	104
1,4-BFB	50 ng	50-150	105

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	385-S16-037	385-S04-187	385-S04-184	385-S04-185	385-S04-186
Analysis Date	13 Aug 2001				
Analysis Time	5:42pm	7:53pm	8:18pm	8:43pm	9:08pm
Dilution Factor:	0.1	0.1	2	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	< 20	nd	nd	nd	
Vinyl Chloride	1	2.1	360	nd	nd	nd	
Chloroethane	1	nd	< 20	nd	nd	nd	
1,1-Dichloroethene	1	nd	2600	22	1.1	nd	
Methylene Chloride	1	nd	< 20	nd	nd	nd	
Methyl-t-butylether	1	nd	< 20	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	110	nd	nd	nd	
1,1-Dichloroethane	1	nd	2900	3.5	0.6 J	nd	
cis-1,2-Dichloroethene	1	21	57	1.1	nd	nd	
1,1,1-Trichloroethane	1	nd	< 20	nd	nd	nd	
1,2-Dichloroethane	1	nd	190	1.4	nd	nd	
Benzene	1	nd	< 20	nd	nd	nd	
Trichloroethene	1	2.1	< 20	nd	nd	nd	
Toluene	1	2.6	< 20	3.9	1.1	1.1	
1,1,2-Trichloroethane	1	nd	82	1.2	nd	nd	
Tetrachloroethene	1	2.9	< 20	nd	nd	nd	
Chlorobenzene	1	nd	< 20	nd	nd	nd	
Ethylbenzene	1	nd	< 20	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	< 20	nd	nd	nd	
m,p-Xylene	1	1.9	< 20	nd	nd	nd	
o-Xylene	1	nd	< 20	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	< 20	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	< 20	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	< 20	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	< 20	nd	nd	nd	
Naphthalene	1	nd	< 20	nd	nd	nd	
<b>Surrogates</b>	<b>Spiked</b>	<b>QC Limits(% Rec.)</b>		<b>Percent Recovery</b>			
DBFM	50 ng	50-150	94	100	98	95	99
1,2-DCA-d4	50 ng	50-150	64	82	69	64	65
Toluene - d8	50 ng	50-150	102	103	100	97	98
1,4-BFB	50 ng	50-150	95	94	79	83	82

Analyses performed by: JN



Report Summary  
EPA Method 8260B (5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	BLANK	385-S04-188	385-S04-189	385-S04-190	385-S04-192	385-S04-191
Analysis Date	14 Aug 2001					
Analysis Time	10:13am	10:59am	12:43pm	2:01pm	2:32pm	3:01pm
Dilution Factor:	0.1	0.1	2	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	< 20	nd	nd	nd	nd
Vinyl Chloride	1	nd	31	2.8	nd	nd	nd
Chloroethane	1	nd	< 20	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	5800 D	160	3.8	nd	nd
Methylene Chloride	1	nd	< 20	nd	nd	nd	nd
Methyl-t-butylether	1	nd	< 20	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	83	2.8	nd	nd	nd
1,1-Dichloroethane	1	nd	1200	54	3.3	nd	1.0
cis-1,2-Dichloroethene	1	nd	130	4.0	nd	nd	nd
1,1,1-Trichloroethane	1	nd	< 20	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	200	6.8	1.0	nd	nd
Benzene	1	nd	< 20	nd	nd	nd	nd
Trichloroethene	1	nd	< 20	nd	nd	nd	nd
Toluene	1	nd	< 20	2.6	nd	nd	nd
1,1,2-Trichloroethane	1	nd	120	3.3	nd	nd	nd
Tetrachloroethene	1	nd	< 20	nd	nd	nd	nd
Chlorobenzene	1	nd	< 20	nd	nd	nd	nd
Ethylbenzene	1	nd	< 20	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	< 20	nd	nd	nd	nd
m,p-Xylene	1	nd	< 20	nd	nd	nd	nd
o-Xylene	1	nd	< 20	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	< 20	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	< 20	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	< 20	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	< 20	nd	nd	nd	nd
Naphthalene	1	nd	< 20	nd	nd	nd	nd
<b>Surrogates</b>	<b>Spiked</b>	<b>QC Limits(% Rec.)</b>		<b>Percent Recovery</b>			
DBFM	50 ng	50-150	102	99	97	96	91
1,2-DCA-d4	50 ng	50-150	73	82	75	65	64
Toluene - d8	50 ng	50-150	100	102	107	102	101
1,4-BFB	50 ng	50-150	90	102	99	95	95

Analyses performed by: JN



**Report Summary**  
**EPA Method 8200B (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	385-S04-193	385-S04-194	385-S04-195	385-S04-196	385-S04-197
Analysis Date	14 Aug 2001				
Analysis Time	4:49pm	5:27pm	5:56pm	6:26pm	6:57pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	2.4
Chloroethane	1	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	150
Methylene Chloride	1	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	5.9
1,1-Dichloroethane	1	nd	nd	nd	nd	110
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	7.2
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	9.1
Benzene	1	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd
Toluene	1	5.5	5.6	5.2	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd	4.2
Tetrachloroethene	1	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
m,p-Xylene	1	4.1	4.1	3.5	nd	nd
o-Xylene	1	1.5	1.6	1.1	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>		
DBFM	50 ng	50-150	95	97	98	96
1,2-DCA-d4	50 ng	50-150	64	66	63	63
Toluene - d8	50 ng	50-150	103	106	105	103
1,4-BFB	50 ng	50-150	99	107	103	95

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S04-198	385-S04-199	385-S04-200	385-S09-048	385-S04-201
Analysis Date	15 Aug 2001					
Analysis Time	10:21am	11:04am	11:29am	11:55am	12:25pm	1:07pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	5.4	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	890 D	5.0	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	32	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	670 D	2.1	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	35	nd	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	52	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd	nd
Trichloroethene	1	nd	2.5	nd	nd	nd	nd
Toluene	1	nd	nd	nd	1.0	nd	nd
1,1,2-Trichloroethane	1	nd	21	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	103	96	97	97	93
1,2-DCA-d4	50 ng	50-150	76	71	66	63	61
Toluene - d8	50 ng	50-150	100	104	105	103	103
1,4-BFB	50 ng	50-150	90	99	99	90	98

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S04-202</b>	<b>385-S04-920</b>	<b>385-S09-045</b>	<b>385-S09-046</b>	<b>385-S09-047</b>
Analysis Date	15 Aug 2001				
Analysis Time	1:36pm	4:08pm	4:35pm	5:31pm	5:59pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	
Chloromethane	1	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	1.6	
Methylene Chloride	1	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	6.8	40	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	nd	nd	nd	nd	2.6	
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	nd	nd	
Trichloroethene	1	nd	nd	nd	nd	nd	
Toluene	1	nd	nd	nd	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	94	93	96	101	96
1,2-DCA-d4	50 ng	50-150	63	66	68	65	62
Toluene - d8	50 ng	50-150	103	103	102	107	105
1,4-BFB	50 ng	50-150	96	98	96	107	102

Analyses performed by: JN



Report Summary  
EPA Method 8260B (5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	BLANK	385-S04-203	385-S04-204	385-S04-205	385-S04-206	385-S21-056
Analysis Date	16 Aug 2001					
Analysis Time	9:48am	10:54am	11:20am	1:31pm	1:57pm	2:23pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	66	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	16	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	nd	2.1	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	1.5	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd	nd
Toluene	1	nd	1.0	1.7	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	1.6	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	101	97	97	97	97
1,2-DCA-d4	50 ng	50-150	77	64	68	61	59
Toluene - d8	50 ng	50-150	103	107	105	106	101
1,4-BFB	50 ng	50-150	99	104	101	106	95

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S21-057</b>	<b>385-S21-058</b>	<b>385-S21-060</b>	<b>385-S21-059</b>	<b>385-S16-038</b>
Analysis Date	16 Aug 2001				
Analysis Time	2:56pm	3:22pm	4:19pm	6:03pm	6:29pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	nd
Vinyl Chloride	1	4.1	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	1.6	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	6.0	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	620 D	4.9	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd
Trichloroethene	1	1900 D	1500 D	nd	1.2	nd
Toluene	1	nd	nd	nd	nd	2.0
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd
Tetrachloroethene	1	5.3	nd	nd	nd	1.6
Chlorobenzene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd	1.3
o-Xylene	1	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>		
DBFM	50 ng	50-150	101	91	93	99
1,2-DCA-d4	50 ng	50-150	69	64	63	67
Toluene - d8	50 ng	50-150	107	102	107	105
1,4-BFB	50 ng	50-150	103	89	102	96

Analyses performed by: JN



Report Summary  
EPA Method 8260B (5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	BLANK	385-S16-039	385-S09-052	385-S16-040	385-S06-061	385-S09-049
Analysis Date	17 Aug 2001					
Analysis Time	9:51am	10:40am	11:06am	11:33am	12:12pm	12:42pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	1.0	nd	1.2	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	4.9	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	nd	nd	87	nd	nd	nd	
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	8.5	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	nd	nd	nd	
Trichloroethene	1	nd	nd	nd	nd	2.8	nd	
Toluene	1	nd	4.2	nd	4.8	2.4	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	3.0	nd	3.8	1.8	nd	
o-Xylene	1	nd	1.1	nd	1.3	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	1.0	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	101	100	99	101	95	97
1,2-DCA-d4	50 ng	50-150	72	66	69	66	61	62
Toluene - d8	50 ng	50-150	106	111	105	109	102	108
1,4-BFB	50 ng	50-150	108	112	107	110	99	112

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	385-S09-050	385-S09-051	385-S21-051	385-S21-052	385-S06-060
Analysis Date	17 Aug 2001				
Analysis Time	1:10pm	2:48pm	3:15pm	3:42pm	4:09pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	0.6 J	nd	nd	nd
Chloroethane	1	nd	nd	6.7	nd	nd
1,1-Dichloroethene	1	1.2	2.2	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	25	nd	1.4	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>		
DBFM	50 ng	50-150	97	98	99	98
1,2-DCA-d4	50 ng	50-150	59	63	63	65
Toluene - d8	50 ng	50-150	105	104	107	107
1,4-BFB	50 ng	50-150	102	110	103	105

Analyses performed by: JN



Report Summary  
 EPA Method 8260B (5030 Prep.)

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S03-089	385-S03-090	285-S03-091	385-S04-207	385-S04-208
Analysis Date	20 Aug 2001					
Analysis Time	9:59am	10:36am	11:43am	12:10pm	12:43pm	1:09pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	5.3	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	nd	nd
Chloroethane	1	nd	nd	1.6	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	2.5	nd	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	11	1.8	nd	nd	nd
Benzene	1	nd	760 D	42	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd	2.8
Toluene	1	nd	nd	2.5	2.3	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	1.9	120	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	2.7	380	3.7	nd	nd
o-Xylene	1	nd	nd	110	1.2	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
Naphthalene	1	nd	6.8	1.9	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	103	95	96	98	96
1,2-DCA-d4	50 ng	50-150	75	65	59	68	66
Toluene - d8	50 ng	50-150	108	106	123	109	109
1,4-BFB	50 ng	50-150	118	111	116	107	110

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	385-S03-092	385-S03-909	385-S04-212	385-S04-213	385-S04-214
Analysis Date	20 Aug 2001				
Analysis Time	2:34pm	3:16pm	5:53pm	6:20pm	6:48pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	< 200	nd	nd	nd	nd	
Vinyl Chloride	1	< 200	nd	nd	nd	2.5	
Chloroethane	1	< 200	nd	nd	nd	nd	
1,1-Dichloroethene	1	< 200	nd	nd	nd	nd	
Methylene Chloride	1	< 200	nd	nd	nd	nd	
Methyl-t-butylether	1	< 200	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	< 200	nd	nd	nd	nd	
1,1-Dichloroethane	1	< 200	nd	nd	nd	nd	
cis-1,2-Dichloroethene	1	< 200	nd	nd	nd	17	
1,1,1-Trichloroethane	1	< 200	nd	nd	nd	nd	
1,2-Dichloroethane	1	< 200	nd	nd	nd	nd	
Benzene	1	4600	nd	nd	nd	nd	
Trichloroethene	1	< 200	nd	nd	200	130	
Toluene	1	< 200	nd	nd	nd	nd	
1,1,2-Trichloroethane	1	< 200	nd	nd	nd	nd	
Tetrachloroethene	1	< 200	nd	nd	nd	nd	
Chlorobenzene	1	< 200	nd	nd	nd	nd	
Ethylbenzene	1	2400	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	< 200	nd	nd	nd	nd	
m,p-Xylene	1	9600	nd	nd	nd	nd	
o-Xylene	1	2200	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	< 200	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	< 200	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	< 200	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	< 200	nd	nd	nd	nd	
Naphthalene	1	< 200	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	103	96	102	93	98
1,2-DCA-d4	50 ng	50-150	75	65	68	62	67
Toluene - d8	50 ng	50-150	106	103	106	104	105
1,4-BFB	50 ng	50-150	103	95	107	105	102

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S04-215	385-S04-216	385-S03-094	385-S03-095	385-S04-209
Analysis Date	21 Aug 2001					
Analysis Time	9:47am	10:31am	10:59am	11:41am	12:11pm	1:16pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	< 10	
Vinyl Chloride	1	nd	nd	nd	nd	4.0	28	
Chloroethane	1	nd	nd	nd	nd	nd	< 10	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	< 10	
Methylene Chloride	1	nd	nd	nd	nd	nd	< 10	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	< 10	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	< 10	
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	< 10	
cis-1,2-Dichloroethene	1	nd	nd	nd	1.5	100	270	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	< 10	
1,2-Dichloroethane	1	nd	nd	nd	18	1.4	< 10	
Benzene	1	nd	nd	nd	3200 D	37	7.2 J	
Trichloroethene	1	nd	nd	1.5	nd	nd	25	
Toluene	1	nd	nd	nd	3.9	2.2	< 10	
1,1,2-Trichloroethane	1	nd	nd	nd	8.0	nd	< 10	
Tetrachloroethene	1	nd	nd	nd	nd	nd	< 10	
Chlorobenzene	1	nd	nd	nd	nd	nd	26	
Ethylbenzene	1	nd	nd	nd	27	1.2	< 10	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	< 10	
m,p-Xylene	1	nd	nd	nd	25	2.6	< 10	
o-Xylene	1	nd	nd	nd	2.6	nd	< 10	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	< 10	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	< 10	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	< 10	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	< 10	
Naphthalene	1	nd	nd	nd	5.3	nd	< 10	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	105	93	93	97	94	102
1,2-DCA-d4	50 ng	50-150	78	63	57	63	63	68
Toluene - d8	50 ng	50-150	105	109	106	115	108	107
1,4-BFB	50 ng	50-150	100	108	102	112	107	109

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260a (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S04-210</b>	<b>385-S04-211</b>
Analysis Date	21 Aug 2001	21 Aug 2001
Analysis Time	6:00pm	6:26pm
Dilution Factor:	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd
Vinyl Chloride	1	260 D	64 D
Chloroethane	1	nd	nd
1,1-Dichloroethene	1	8.3	3.6
Methylene Chloride	1	nd	nd
Methyl-t-butylether	1	nd	nd
trans-1,2-Dichloroethene	1	4.3	2.3
1,1-Dichloroethane	1	nd	nd
cis-1,2-Dichloroethene	1	650 D	330 D
1,1,1-Trichloroethane	1	nd	nd
1,2-Dichloroethane	1	15	7.0
Benzene	1	nd	nd
Trichloroethene	1	12000 D	4500 D
Toluene	1	1.7	2.4
1,1,2-Trichloroethane	1	1.5	nd
Tetrachloroethene	1	2.0	nd
Chlorobenzene	1	2.2	nd
Ethylbenzene	1	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd
m,p-Xylene	1	1.5	1.9
o-Xylene	1	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd
1,3-Dichlorobenzene	1	nd	1.3
1,4-Dichlorobenzene	1	nd	12
1,2-Dichlorobenzene	1	nd	68
Naphthalene	1	110	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>Percent Recovery</u>
DBFM	50 ng	50-150	94
1,2-DCA-d4	50 ng	50-150	63
Toluene - d8	50 ng	50-150	106
1,4-BFB	50 ng	50-150	106

Analyses performed by: JN



Report Summary  
EPA Method 8260 (5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	BLANK	385-S21-053	385-S21-054	385-S21-055	385-S04-222	385-S04-223
Analysis Date	22 Aug 2001					
Analysis Time	9:44am	12:34pm	1:06pm	1:32pm	2:22pm	2:48pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	0.8 J	nd	nd	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
cis-1,2-Dichloroethene	1	nd	nd	2.4	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	3.8	nd	nd	nd	nd	
Trichloroethene	1	nd	nd	18	nd	nd	nd	
Toluene	1	nd	1.0	1.1	1.6	3.3	3.2	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	1.4	2.2	1.9	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	106	97	102	104	100	102
1,2-DCA-d4	50 ng	50-150	77	62	66	66	66	65
Toluene - d8	50 ng	50-150	108	108	112	113	110	111
1,4-BFB	50 ng	50-150	113	110	120	119	123	123

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	385-S04-224	385-S04-225	385-S04-226	385-S04-227	385-S04-228	385-S04-232
Analysis Date	22 Aug 2001					
Analysis Time	3:15pm	5:18pm	5:44pm	6:10pm	6:36pm	7:02pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	nd	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	nd	nd	nd	
Trichloroethene	1	nd	nd	nd	nd	nd	nd	
Toluene	1	2.1	2.9	2.7	3.9	2.3	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	1.3	2.1	1.8	2.3	1.7	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	103	99	97	103	104	98
1,2-DCA-d4	50 ng	50-150	67	64	60	66	66	64
Toluene - d8	50 ng	50-150	112	109	107	110	111	103
1,4-BFB	50 ng	50-150	116	118	117	116	114	104

Analyses performed by: JN



Report Summary  
EPA Method 8260 (5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

**Sample Name:** 385-S04-233 385-S04-234  
Analysis Date: 22 Aug 2001 22 Aug 2001  
Analysis Time: 7:27pm 7:53pm  
Dilution Factor: 0.1 0.1 0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd
Vinyl Chloride	1	nd	nd
Chloroethane	1	nd	nd
1,1-Dichloroethene	1	nd	nd
Methylene Chloride	1	nd	nd
Methyl-t-butylether	1	nd	nd
trans-1,2-Dichloroethene	1	nd	nd
1,1-Dichloroethane	1	nd	nd
cis-1,2-Dichloroethene	1	nd	nd
1,1,1-Trichloroethane	1	nd	nd
1,2-Dichloroethane	1	nd	nd
Benzene	1	nd	nd
Trichloroethene	1	nd	5.6
Toluene	1	nd	nd
1,1,2-Trichloroethane	1	nd	nd
Tetrachloroethene	1	nd	nd
Chlorobenzene	1	nd	nd
Ethylbenzene	1	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd
m,p-Xylene	1	nd	nd
o-Xylene	1	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd
1,3-Dichlorobenzene	1	nd	nd
1,4-Dichlorobenzene	1	nd	nd
1,2-Dichlorobenzene	1	nd	nd
Naphthalene	1	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>Percent Recovery</u>
DBFM	50 ng	50-150	102
1,2-DCA-d4	50 ng	50-150	66
Toluene - d8	50 ng	50-150	108
1,4-BFB	50 ng	50-150	109

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260b (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S04-217	385-S04-221	385-S23-023	385-S21-062	385-S04-218
Analysis Date	23 Aug 2001					
Analysis Time	9:48am	10:42am	12:34pm	1:25pm	1:52pm	4:08pm
Dilution Factor:	0.1	0.1	0.1	0.1	1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	nd	nd	nd	< 10	nd
Vinyl Chloride	1	nd	nd	nd	nd	< 10	1.1
Chloroethane	1	nd	nd	nd	nd	< 10	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	< 10	64
Methylene Chloride	1	nd	nd	nd	nd	< 10	nd
Methyl-t-butylether	1	nd	nd	nd	nd	< 10	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	< 10	1.1
1,1-Dichloroethane	1	nd	nd	nd	nd	< 10	18
cis-1,2-Dichloroethene	1	nd	nd	nd	1.3	< 10	2.0
1,1,1-Trichloroethane	1	nd	nd	nd	nd	< 10	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	< 10	2.2
Benzene	1	nd	nd	nd	nd	< 10	nd
Trichloroethene	1	nd	4500 D	nd	nd	< 10	nd
Toluene	1	nd	nd	nd	nd	< 10	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd	< 10	nd
Tetrachloroethene	1	nd	nd	nd	nd	< 10	nd
Chlorobenzene	1	nd	nd	nd	nd	< 10	nd
Ethylbenzene	1	nd	nd	nd	nd	< 10	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	< 10	nd
m,p-Xylene	1	nd	nd	nd	nd	< 10	nd
o-Xylene	1	nd	nd	nd	nd	< 10	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	< 10	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	< 10	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	< 10	nd
1,2-Dichlorobenzene	1	nd	2.5	nd	nd	< 10	nd
Naphthalene	1	nd	nd	nd	nd	< 10	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	106	98	99	106	96
1,2-DCA-d4	50 ng	50-150	75	63	64	65	62
Toluene - d8	50 ng	50-150	107	109	109	112	107
1,4-BFB	50 ng	50-150	109	114	120	126	117

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260 (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S04-219</b>	<b>385-S04-220</b>	<b>385-S09-054</b>	<b>385-S21-063</b>	<b>385-S04-236</b>
Analysis Date	23 Aug 2001				
Analysis Time	4:37pm	5:05pm	5:32pm	5:59pm	6:52pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	0.5 J
Chloroethane	1	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	1.2	nd	4.3	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	15	nd	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>		
DBFM	50 ng	50-150	103	102	101	101
1,2-DCA-d4	50 ng	50-150	65	63	67	66
Toluene - d8	50 ng	50-150	111	111	112	113
1,4-BFB	50 ng	50-150	124	117	129	128

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260 (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S09-913	385-S09-055	385-S09-056	385-S09-057	385-S04-229
Analysis Date	24 Aug 2001					
Analysis Time	9:48am	10:28am	10:53am	11:18am	11:43am	1:01pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	nd	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	nd	nd	nd	
Trichloroethene	1	nd	nd	nd	nd	nd	nd	
Toluene	1	nd	nd	nd	nd	nd	3.3	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	1.7	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<b>Surrogates</b>	<b>Spiked</b>	<b>QC Limits(% Rec.)</b>	<b>Percent Recovery</b>					
DBFM	50 ng	50-150	105	101	101	92	98	100
1,2-DCA-d4	50 ng	50-150	75	67	63	59	63	63
Toluene - d8	50 ng	50-150	110	112	112	105	110	112
1,4-BFB	50 ng	50-150	110	123	118	106	110	125

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260 (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S04-230</b>	<b>385-S10-011</b>	<b>385-S10-008</b>	<b>385-S10-009</b>	<b>385-S10-010</b>
Analysis Date	24 Aug 2001				
Analysis Time	1:26pm	1:52pm	4:04pm	4:30pm	4:56pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd	nd
Toluene	1	2.4	2.0	2.2	1.7	2.7	2.7
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	1.4	1.9	1.4	nd	1.2	1.2
o-Xylene	1	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	100	101	99	101	105
1,2-DCA-d4	50 ng	50-150	62	63	64	64	66
Toluene - d8	50 ng	50-150	110	110	110	114	116
1,4-BFB	50 ng	50-150	119	113	125	130	126

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S04-921	385-S06-062	385-S04-231	385-S03-096	385-S03-097
Analysis Date	27 Aug 2001					
Analysis Time	10:10am	11:07am	11:33am	12:13pm	12:38pm	1:04pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	nd	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
cis-1,2-Dichloroethene	1	nd	nd	8.1	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	0.6	10	nd	
Trichloroethene	1	nd	nd	3.0	nd	nd	nd	
Toluene	1	nd	nd	2.4	5.9	3.5	3.1	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	1.7	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	1.1	2.5	2.7	1.4	
o-Xylene	1	nd	nd	nd	nd	1.1	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	7.4	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	115	101	102	98	97	98
1,2-DCA-d4	50 ng	50-150	101	65	61	63	52	62
Toluene - d8	50 ng	50-150	108	113	113	112	139	110
1,4-BFB	50 ng	50-150	126	129	130	137	130	126

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260 (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	385-S03-098	385-S03-099	385-S05-183	385-S03-093	385-S05-184	385-S05-185
Analysis Date	27 Aug 2001					
Analysis Time	2:20pm	2:45pm	3:11pm	3:42pm	6:39pm	7:04pm
Dilution Factor:	0.1	20	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	< 200	nd	nd	nd	nd	nd
Vinyl Chloride	1	< 200	nd	0.6 J	nd	nd	nd
Chloroethane	1	< 200	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	< 200	nd	nd	nd	nd	nd
Methylene Chloride	1	< 200	nd	nd	nd	nd	nd
Methyl-t-butylether	1	< 200	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	< 200	nd	2.1	nd	nd	nd
1,1-Dichloroethane	1	< 200	nd	1.4	nd	nd	nd
cis-1,2-Dichloroethene	1	< 200	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	1	< 200	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	< 200	nd	nd	nd	nd	nd
Benzene	1	550	9.3	0.5 J	70	3.4	2.1
Trichloroethene	1	< 200	nd	nd	nd	nd	nd
Toluene	1	< 200	3.0	2.5	2.1	1.3	3.0
1,1,2-Trichloroethane	1	< 200	nd	nd	nd	nd	nd
Tetrachloroethene	1	< 200	nd	nd	nd	nd	nd
Chlorobenzene	1	560	nd	nd	nd	nd	nd
Ethylbenzene	1	390	2.0	nd	1.9	nd	nd
1,1,1,2-Tetrachloroethane	1	< 200	nd	nd	nd	nd	nd
m,p-Xylene	1	1200	7.7	1.2	6.3	1.4	1.4
o-Xylene	1	< 200	nd	nd	3.1	nd	nd
1,1,2,2-Tetrachloroethane	1	< 200	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	< 200	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	< 200	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	< 200	nd	nd	nd	nd	nd
Naphthalene	1	< 200	nd	nd	1.3	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	104	102	101	101	103
1,2-DCA-d4	50 ng	50-150	73	61	62	69	61
Toluene - d8	50 ng	50-150	115	116	113	115	113
1,4-BFB	50 ng	50-150	144	136	126	135	121

Analyses performed by: JN



Report Summary  
EPA Method 8260b (5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	385-S16-041	385-S16-042	385-S16-043	385-S16-044	385-S16-045	385-S16-046
Analysis Date	27 Aug 2001					
Analysis Time	7:30pm	7:55pm	8:21pm	8:46pm	9:11pm	9:36pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	nd	1.7	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	3.1	nd	nd	nd	4.5	nd	
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
cis-1,2-Dichloroethene	1	7.2	35	nd	2.7	180	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	1.3	2.1	nd	nd	9.5	nd	
Trichloroethene	1	1.9	nd	nd	2.2	nd	nd	
Toluene	1	1.3	1.2	1.7	1.0	2.2	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	480 D	150	nd	31	2700 D	3.6	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	100	nd	nd	40	3.5	nd	
1,4-Dichlorobenzene	1	1400 D	8.5	1.9	170	49	1.0	
1,2-Dichlorobenzene	1	5100 D	28	8.5	1800 D	1100 D	4.6	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	99	101	102	101	100	105
1,2-DCA-d4	50 ng	50-150	63	62	65	63	64	66
Toluene - d8	50 ng	50-150	111	108	109	106	105	111
1,4-BFB	50 ng	50-150	119	117	119	113	111	115

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260b (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	385-S16-047	385-S16-048	385-S16-049	385-S16-050	385-S05-180	385-S05-181
Analysis Date	27 Aug 2001	28 Aug 2001				
Analysis Time	10:01pm	10:27pm	10:52pm	11:17pm	11:42pm	12:07am
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	1.0	nd	nd	nd	nd	1.4
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	12	1.2	nd	6.7	3.1	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd	4.0
Trichloroethene	1	7.1	nd	nd	1.5	2.6	nd
Toluene	1	nd	1.1	2.1	1.4	nd	1.4
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	2.3	nd	nd
Chlorobenzene	1	73	1.2	nd	nd	1.0	2.1
Ethylbenzene	1	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	1.2	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	2.5	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	13	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	72	2.0	1.4	1.2	1.4	nd
Naphthalene	1	nd	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	102	101	101	102	111
1,2-DCA-d4	50 ng	50-150	64	64	65	69	73
Toluene - d8	50 ng	50-150	105	106	103	100	98
1,4-BFB	50 ng	50-150	111	110	105	98	96

Analyses performed by: JN



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

**Sample Name:** 385-S05-182  
Analysis Date: 28 Aug 2001  
Analysis Time: 12:33am  
Dilution Factor: 0.1 0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>
Chloromethane	1	nd
Vinyl Chloride	1	nd
Chloroethane	1	nd
1,1-Dichloroethene	1	nd
Methylene Chloride	1	nd
Methyl-t-butylether	1	nd
trans-1,2-Dichloroethene	1	nd
1,1-Dichloroethane	1	nd
cis-1,2-Dichloroethene	1	nd
1,1,1-Trichloroethane	1	nd
1,2-Dichloroethane	1	nd
Benzene	1	nd
Trichloroethene	1	nd
Toluene	1	nd
1,1,2-Trichloroethane	1	nd
Tetrachloroethene	1	nd
Chlorobenzene	1	nd
Ethylbenzene	1	nd
1,1,1,2-Tetrachloroethane	1	nd
m,p-Xylene	1	nd
o-Xylene	1	nd
1,1,2,2-Tetrachloroethane	1	nd
1,3-Dichlorobenzene	1	nd
1,4-Dichlorobenzene	1	nd
1,2-Dichlorobenzene	1	nd
Naphthalene	1	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>
DBFM	50 ng	50-150 100
1,2-DCA-d4	50 ng	50-150 67
Toluene - d8	50 ng	50-150 105
1,4-BFB	50 ng	50-150 104

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S05-186	385-S05-187	385-S05-188	385-S21-904	385-S21-064
Analysis Date	28 Aug 2001					
Analysis Time	10:01am	12:12pm	12:38pm	1:05pm	1:45pm	2:11pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	nd	nd	3.7	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	1.7	
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	0.5 J	1.0	nd	nd	
Trichloroethene	1	nd	1.7	nd	nd	nd	nd	
Toluene	1	nd	nd	nd	1.1	nd	3.6	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	1.1	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	2.2	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	1.4	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	107	102	100	103	105	103
1,2-DCA-d4	50 ng	50-150	74	59	61	62	66	61
Toluene - d8	50 ng	50-150	108	112	111	112	114	112
1,4-BFB	50 ng	50-150	126	128	129	129	132	127

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	385-S21-065	385-S21-066	385-S05-188	385-S05-189	385-S05-190	385-S11-125A
Analysis Date	28 Aug 2001					
Analysis Time	2:36pm	4:05pm	5:59pm	6:24pm	6:49pm	7:15pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	70 D	nd	nd	nd	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	18	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	nd	nd	0.8 J	8.0	0.7 J	nd	
cis-1,2-Dichloroethene	1	61	2.3	1.6	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	2.0	nd	nd	
Benzene	1	1.1	nd	nd	nd	nd	nd	
Trichloroethene	1	nd	8.0	nd	nd	nd	nd	
Toluene	1	3.9	nd	nd	nd	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	2.8	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	2.5	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<b>Surrogates</b>	<b>Spiked</b>	<b>QC Limits(% Rec.)</b>		<b>Percent Recovery</b>				
DBFM	50 ng	50-150	102	104	103	97	99	108
1,2-DCA-d4	50 ng	50-150	63	64	62	62	61	63
Toluene - d8	50 ng	50-150	112	111	112	108	109	113
1,4-BFB	50 ng	50-150	121	119	130	117	119	117

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260 (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S11-126A</b>	<b>385-S11-127A</b>	<b>385-S11-128A</b>	<b>385-S11-129A</b>	<b>385-S11-130A</b>	<b>385-S21-107A</b>
Analysis Date	28 Aug 2001					
Analysis Time	7:40pm	8:05pm	8:30pm	8:56pm	9:21pm	9:46pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	0.7 J	nd	nd	nd	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	2.7	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	3.8	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	nd	nd	nd	0.6 J	nd	nd	
cis-1,2-Dichloroethene	1	19	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	nd	nd	nd	
Trichloroethene	1	70	nd	nd	nd	nd	nd	
Toluene	1	1.3	nd	1.1	1.4	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	106	97	107	103	103	108
1,2-DCA-d4	50 ng	50-150	65	59	66	63	65	66
Toluene - d8	50 ng	50-150	116	107	111	110	108	106
1,4-BFB	50 ng	50-150	125	110	123	119	106	112

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	385-S21-108A	385-S21-109A	385-S11-110A	385-S11-111A	385-S11-112A	385-S11-905A
Analysis Date	28 Aug 2001	29 Aug 2001				
Analysis Time	10:11pm	10:36pm	11:01pm	11:26pm	11:51pm	12:17am
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	0.7 J	nd	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	1.4	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
cis-1,2-Dichloroethene	1	nd	nd	nd	27	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	1.9	nd	nd	nd	
Trichloroethene	1	nd	nd	nd	33000 D	2.1	nd	
Toluene	1	nd	nd	nd	nd	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	1.6	nd	nd	
Tetrachloroethene	1	nd	nd	nd	3.6	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	3.4	nd	nd	nd	
<b>Surrogates</b>	<b>Spiked</b>	<b>QC Limits(% Rec.)</b>		<b>Percent Recovery</b>				
DBFM	50 ng	50-150	102	103	105	98	101	111
1,2-DCA-d4	50 ng	50-150	61	70	67	64	70	74
Toluene - d8	50 ng	50-150	105	103	105	102	102	106
1,4-BFB	50 ng	50-150	95	96	108	98	88	112

Analyses performed by: JN



Report **mary**  
 EPA Method 8260 (5030 Prep.)



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

**Sample Name:** 385-S05-191  
 Analysis Date: 29 Aug 2001  
 Analysis Time: 12:42am  
 Dilution Factor: 0.1 0.1

Compound                      E.Q.L   Amount Found

Chloromethane	1	nd
Vinyl Chloride	1	nd
Chloroethane	1	nd
1,1-Dichloroethene	1	5.3
Methylene Chloride	1	nd
Methyl-t-butylether	1	nd
trans-1,2-Dichloroethene	1	nd
1,1-Dichloroethane	1	24
cis-1,2-Dichloroethene	1	6.1
1,1,1-Trichloroethane	1	nd
1,2-Dichloroethane	1	nd
Benzene	1	0.7 J
Trichloroethene	1	3.2
Toluene	1	4.9
1,1,2-Trichloroethane	1	nd
Tetrachloroethene	1	nd
Chlorobenzene	1	13
Ethylbenzene	1	nd
1,1,1,2-Tetrachloroethane	1	nd
m,p-Xylene	1	1.0
o-Xylene	1	nd
1,1,2,2-Tetrachloroethane	1	nd
1,3-Dichlorobenzene	1	nd
1,4-Dichlorobenzene	1	1.9
1,2-Dichlorobenzene	1	32
Naphthalene	1	nd

<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>
DBFM	50 ng	50-150 106
1,2-DCA-d4	50 ng	50-150 70
Toluene - d8	50 ng	50-150 104
1,4-BFB	50 ng	50-150 101

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S05-192	385-S05-193	385-S05-194	385-S05-195	385-S05-196
Analysis Date	29 Aug 2001					
Analysis Time	9:36am	12:02pm	12:27pm	12:53pm	1:26pm	1:52pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found					
Chloromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	2.1	nd	22	2.5	2.0
Chloroethane	1	nd	3.6	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	1.7	nd	10	6.0	1.1
1,1-Dichloroethane	1	nd	1.6	nd	3.6	1.4	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	1.4	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd
Benzene	1	nd	2.2	0.9 J	1.0	4.4	5.8
Trichloroethene	1	nd	nd	nd	nd	nd	nd
Toluene	1	nd	2.4	3.4	4.3	2.5	3.7
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd	nd

Surrogates	Spiked	QC Limits(% Rec.)	Percent Recovery					
DBFM	50 ng	50-150	108	98	102	102	102	101
1,2-DCA-d4	50 ng	50-150	73	63	63	63	66	64
Toluene - d8	50 ng	50-150	111	115	116	113	113	113
1,4-BFB	50 ng	50-150	131	143	138	141	137	129

Analyses performed by: JN



**Report Summary**  
**EPA Method 8200B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S03-100</b>	<b>385-S03-101</b>	<b>385-S03-910</b>	<b>385-S04-232</b>	<b>385-S04-233</b>	<b>385-S11-113A</b>
Analysis Date	29 Aug 2001					
Analysis Time	2:18pm	3:57pm	4:39pm	5:56pm	6:22pm	6:47pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	3.5	nd
Chloroethane	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	1.1	1.2	nd
Methylene Chloride	1	nd	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	4.0	29	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	1.3	nd
Benzene	1	41	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	1800 D	3700 D	3.2
Toluene	1	2.2	nd	nd	1.4	1.1	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd
Chlorobenzene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	1.1	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	101	102	101	99	98
1,2-DCA-d4	50 ng	50-150	64	65	66	63	65
Toluene - d8	50 ng	50-150	116	111	110	113	111
1,4-BFB	50 ng	50-150	141	125	123	130	123

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	385-S11-114A	385-S11-115A	385-S21-119A	385-S21-120A	385-S21-121A
Analysis Date	29 Aug 2001				
Analysis Time	7:13pm	7:38pm	8:03pm	8:29pm	8:54pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	82 D	nd	
Chloroethane	1	nd	nd	nd	1.3	nd	
1,1-Dichloroethene	1	nd	nd	nd	3.5	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	1.8	nd	
1,1-Dichloroethane	1	nd	nd	nd	nd	nd	
cis-1,2-Dichloroethene	1	2.1	nd	nd	560 D	2.5	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	1.8	1.1	nd	
Trichloroethene	1	560 D	1.2	nd	2900 D	6.7	
Toluene	1	nd	nd	nd	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	1.4	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	2.3	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	98	103	106	99	102
1,2-DCA-d4	50 ng	50-150	62	67	68	62	64
Toluene - d8	50 ng	50-150	111	112	108	112	110
1,4-BFB	50 ng	50-150	124	115	118	121	112

Analyses performed by: JN



Report Summary  
EPA Method 8260b (5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	BLANK	385-S21-104A	385-S21-105A	385-S21-106A	385-S21-101A	385-S21-102A
Analysis Date	30 Aug 2001	30 Aug 2001	30 Aug 2001	30 Aug 2001	30 Aug 2001	30 Aug 2001
Analysis Time	10:09am	12:59pm	1:27pm	1:53pm	2:19pm	2:45pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	nd	1.2	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	nd	nd	nd	nd	0.6 J	nd	
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	nd	4.3	nd	
Trichloroethene	1	nd	nd	nd	nd	nd	nd	
Toluene	1	nd	nd	1.2	nd	nd	1.1	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	109	105	112	106	107	108
1,2-DCA-d4	50 ng	50-150	74	68	69	63	64	68
Toluene - d8	50 ng	50-150	113	114	111	114	115	111
1,4-BFB	50 ng	50-150	124	142	146	134	136	127

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260 (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S21-907</b>	<b>385-S21-103A</b>	<b>385-S04-234</b>	<b>385-S04-235</b>	<b>385-S04-236</b>	<b>385-S04-237</b>
Analysis Date	30 Aug 2001	30 Aug 2001	30 Aug 2001	30 Aug 2001	30 Aug 2001	30 Aug 2001
Analysis Time	3:11pm	3:37pm	4:03pm	7:06pm	7:32pm	7:57pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	4.6	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	81	1800 D	1.1	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	2.6	52	nd	nd	
1,1-Dichloroethane	1	nd	nd	16	310 D	nd	nd	
cis-1,2-Dichloroethene	1	nd	nd	3.7	80	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	5.0	100	nd	nd	
Benzene	1	nd	nd	nd	0.8 J	nd	nd	
Trichloroethene	1	nd	nd	nd	1.3	nd	nd	
Toluene	1	1.1	1.3	2.3	1.8	1.7	1.1	
1,1,2-Trichloroethane	1	nd	nd	3.2	81	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	108	106	111	103	107	112
1,2-DCA-d4	50 ng	50-150	65	65	74	65	64	70
Toluene - d8	50 ng	50-150	112	111	114	110	115	114
1,4-BFB	50 ng	50-150	124	119	132	127	130	127

Analyses performed by: JN



Report nary  
EPA Method 8260B (5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	385-S04-238	385-S04-239	385-S04-240	385-S05-197	385-S05-198
Analysis Date	30 Aug 2001				
Analysis Time	8:22pm	8:48pm	9:13pm	9:39pm	10:05pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	0.5 J	nd	nd	
Chloroethane	1	nd	nd	nd	4.3	nd	
1,1-Dichloroethene	1	1.5	nd	3.0	2.9	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	1.0	5.6	nd	
1,1-Dichloroethane	1	nd	nd	nd	6.4	nd	
cis-1,2-Dichloroethene	1	nd	nd	11	15	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	
Benzene	1	nd	0.6 J	1.2	1.3	6.5	
Trichloroethene	1	nd	nd	9200 D	4.0	nd	
Toluene	1	1.8	2.0	6.2	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	13	nd	nd	
Chlorobenzene	1	nd	nd	2.1	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	5.9	nd	nd	
o-Xylene	1	nd	nd	2.6	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	1.6	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	30	nd	nd	
Naphthalene	1	nd	nd	nd	nd	3.2	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>			
DBFM	50 ng	50-150	109	111	106	101	103
1,2-DCA-d4	50 ng	50-150	66	65	68	66	65
Toluene - d8	50 ng	50-150	110	107	106	100	104
1,4-BFB	50 ng	50-150	114	110	107	98	104

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	BLANK	385-S05-199	385-S09-058	385-S21-122A	385-S21-123A	385-S21-124A
Analysis Date	31 Aug 2001	31 Aug 2001	31 Aug 2001	31 Aug 2001	31 Aug 2001	31 Aug 2001
Analysis Time	9:47am	12:41pm	1:07pm	2:39pm	3:06pm	3:33pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	nd	nd	nd	7.1	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	nd	nd	3.5	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	nd	nd	nd	1.3	nd	nd	
1,1-Dichloroethane	1	nd	nd	16	nd	nd	nd	
cis-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	nd	nd	nd	
Trichloroethene	1	nd	nd	nd	nd	nd	nd	
Toluene	1	nd	nd	nd	1.3	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<b>Surrogates</b>	<b>Spiked</b>	<b>QC Limits(% Rec.)</b>		<b>Percent Recovery</b>				
DBFM	50 ng	50-150	86	94	97	96	100	101
1,2-DCA-d4	50 ng	50-150	55	57	54	54	59	58
Toluene - d8	50 ng	50-150	77	91	96	97	101	96
1,4-BFB	50 ng	50-150	70	96	96	104	107	102

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260B (5030 Prep.)**



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>385-S11-132A</b>	<b>385-S11-133A</b>	<b>385-S10-012</b>	<b>385-S10-013</b>	<b>385-S10-014</b>	<b>385-S10-015</b>
Analysis Date	31 Aug 2001	31 Aug 2001	31 Aug 2001	31 Aug 2001	31 Aug 2001	31 Aug 2001
Analysis Time	4:35pm	5:02pm	5:29pm	5:56pm	6:23pm	6:50pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	
Chloromethane	1	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	1	3.3	nd	nd	nd	nd	nd	
Chloroethane	1	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	1	1400 D	nd	nd	nd	nd	nd	
Methylene Chloride	1	nd	nd	nd	nd	nd	nd	
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	1	11	nd	nd	nd	nd	nd	
1,1-Dichloroethane	1	2200 D	1.6	nd	2.2	2.4	nd	
cis-1,2-Dichloroethene	1	41	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane	1	8.9	nd	nd	nd	nd	nd	
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd	
Benzene	1	nd	nd	nd	nd	nd	nd	
Trichloroethene	1	2.1	nd	nd	nd	nd	nd	
Toluene	1	nd	nd	nd	nd	nd	nd	
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd	
Chlorobenzene	1	nd	nd	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	nd	nd	
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
m,p-Xylene	1	nd	nd	nd	nd	nd	nd	
o-Xylene	1	nd	nd	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd	
1,3-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,4-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
1,2-Dichlorobenzene	1	nd	nd	nd	nd	nd	nd	
Naphthalene	1	nd	nd	nd	nd	nd	nd	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>				
DBFM	50 ng	50-150	101	98	99	103	92	93
1,2-DCA-d4	50 ng	50-150	59	57	57	59	55	54
Toluene - d8	50 ng	50-150	101	103	101	104	95	95
1,4-BFB	50 ng	50-150	118	117	115	117	110	114

Analyses performed by: JN



Report Summary  
EPA Method 8260b (5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	385-S04-241	385-S04-242	385-S04-243	385-S04-244
Analysis Date	31 Aug 2001	31 Aug 2001	31 Aug 2001	31 Aug 2001
Analysis Time	7:17pm	7:44pm	8:11pm	8:37pm
Dilution Factor:	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found
Chloromethane	1	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	1.3
Methylene Chloride	1	nd	nd	nd	1.1
Methyl-t-butylether	1	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	1.3
1,1,1-Trichloroethane	1	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd
Trichloroethene	1	nd	2.1	590 D	9300 D
Toluene	1	nd	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	1.6
Chlorobenzene	1	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd
1,3-Dichlorobenzene	1	nd	nd	nd	nd
1,4-Dichlorobenzene	1	nd	nd	nd	nd
1,2-Dichlorobenzene	1	nd	nd	nd	nd
Naphthalene	1	nd	nd	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>	
DBFM	50 ng	50-150	93	90	92 95
1,2-DCA-d4	50 ng	50-150	53	52	54 53
Toluene - d8	50 ng	50-150	97	92	94 97
1,4-BFB	50 ng	50-150	109	109	103 109

Analyses performed by: JN



**Report Summary**  
**EPA Method 8260 (5030 Prep.)**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>	<b>BLANK</b>	<b>385-S11-131A</b>	<b>385-S21-067</b>	<b>385-S21-068</b>
Analysis Date	4 Sep 2001	4 Sep 2001	4 Sep 2001	4 Sep 2001
Analysis Time	11:03am	11:43am	2:01pm	2:58pm
Dilution Factor:	0.1	0.1	2	0.1

<u>Compound</u>	<u>E.Q.L</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>	<u>Amount Found</u>
Chloromethane	1	nd	< 20	nd	nd
Vinyl Chloride	1	nd	< 20	1.9	nd
Chloroethane	1	nd	560	nd	nd
1,1-Dichloroethene	1	nd	< 20	nd	nd
Methylene Chloride	1	nd	< 20	nd	nd
Methyl-t-butylether	1	nd	< 20	nd	nd
trans-1,2-Dichloroethene	1	nd	< 20	nd	nd
1,1-Dichloroethane	1	nd	27	nd	nd
cis-1,2-Dichloroethene	1	nd	< 20	nd	33
1,1,1-Trichloroethane	1	nd	< 20	nd	nd
1,2-Dichloroethane	1	nd	< 20	nd	nd
Benzene	1	nd	< 20	1.7	nd
Trichloroethene	1	nd	< 20	nd	nd
Toluene	1	nd	< 20	nd	nd
1,1,2-Trichloroethane	1	nd	< 20	nd	nd
Tetrachloroethene	1	nd	< 20	nd	nd
Chlorobenzene	1	nd	< 20	nd	nd
Ethylbenzene	1	nd	< 20	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	< 20	nd	nd
m,p-Xylene	1	nd	< 20	nd	nd
o-Xylene	1	nd	< 20	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	< 20	nd	nd
1,3-Dichlorobenzene	1	nd	< 20	nd	nd
1,4-Dichlorobenzene	1	nd	< 20	nd	nd
1,2-Dichlorobenzene	1	nd	< 20	nd	nd
Naphthalene	1	nd	< 20	nd	nd
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>Percent Recovery</u>	
DBFM	50 ng	50-150	104	105	94
1,2-DCA-d4	50 ng	50-150	63	67	58
Toluene - d8	50 ng	50-150	97	103	96
1,4-BFB	50 ng	50-150	123	141	111

Analyses performed by: JN

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Method =	TPH	
Analyte =	Gasoline C <sub>6</sub> -C <sub>12</sub>	
Detection Limit -	50	
<b>SAMPLE I.D.</b>		
Date Analyzed: <u>7/23/2001</u>		
BLANK	nd	
385-S03-002	nd	
385-S03-004	nd	
385-S03-006	770	Z
Date Analyzed: <u>7/24/2001</u>		
BLANK	nd	
385-S03-008	nd	
385-S06-001	100	Y
385-S06-016	nd	
385-S06-041	nd	
385-S06-042	nd	
385-S03-010	nd	
385-S04-052	67000	Y
385-S04-053	3400	Y
Date Analyzed: <u>7/25/2001</u>		
BLANK	nd	
385-S06-006	nd	
385-S06-005	nd	
385-S11-001	nd	
385-S16-007	nd	
385-S04-054	710	Y
385-S04-055	510	Y
385-S04-056	410	Y

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Method =	TPH	
Analyte =	Gasoline C <sub>6</sub> -C <sub>12</sub>	
Detection Limit -	50	
<b>SAMPLE I.D.</b>		
Date Analyzed: <u>7/31/2001</u>		
BLANK	nd	
385-S05-076	110	Z
Date Analyzed: <u>8/1/2001</u>		
BLANK	nd	
385-S21-020	120000	Z
Date Analyzed: <u>8/2/2001</u>		
BLANK	nd	
385-S11-005	76	Z
385-S11-904	nd	

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Method =	TPH	
Analyte =	Gasoline C <sub>6</sub> -C <sub>12</sub>	
Detection Limit -	50	
<b>SAMPLE I.D.</b>		
Date Analyzed: <u>8/7/2001</u>		
BLANK	nd	
385-S14-081	nd	
385-S16-023	nd	
385-S04-138	450	Z
385-S14-082	nd	
385-S06-025	nd	
385-S06-028	nd	
385-S21-033	12000	Z
385-S14-083	nd	
385-S14-084	nd	
385-S21-030	1800	Z
385-S09-034	nd	
385-S04-141	nd	
385-S13-017	nd	
Date Analyzed: <u>8/8/2001</u>		
BLANK	nd	
385-S14-912	nd	
385-S13-014	nd	
385-S23-015	130	Y
385-S05-124	nd	
385-S05-121	nd	
385-S14-052	nd	
385-S14-055	nd	

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Method =</b>	<b>TPH</b>
<b>Analyte =</b>	<b>Gasoline</b> <b>C<sub>6</sub>-C<sub>12</sub></b>
<b>Detection Limit -</b>	<b>50</b>
<b>SAMPLE I.D.</b>	
<u>Date Analyzed:</u> 8/9/2001	
<b>BLANK</b>	nd
<b>385-S04-058</b>	nd
<b>385-S03-087</b>	6500 Z
<u>Date Analyzed:</u> 8/10/2001	
<b>BLANK</b>	nd
<b>385-S03-088</b>	190 Z
<b>385-S03-908</b>	nd

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Method =	TPH
Analyte =	Gasoline C <sub>6</sub> -C <sub>12</sub>
Detection Limit -	50
<b>SAMPLE I.D.</b>	
Date Analyzed: <u>8/16/2001</u>	
BLANK	nd
385-S04-203	390 Z
385-S04-204	nd
385-S04-205	nd
385-S04-206	nd
385-S21-056	600 Z
385-S21-057	1500 Z
385-S21-058	1200 Z
385-S21-060	63 Z
385-S21-059	660 Z
385-S16-038	nd

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Method =</b>	<b>TPH</b>	
<b>Analyte =</b>	<b>Gasoline</b>	
	<b>C<sub>6</sub>-C<sub>12</sub></b>	
<b>Detection Limit -</b>	<b>50</b>	
<b>SAMPLE I.D.</b>		
<u>Date Analyzed: 8/20/2001</u>		
<b>BLANK</b>	nd	
<b>385-S03-089</b>	680	Z
<b>385-S03-091</b>	130	
<b>385-S03-092</b>	300000	
<b>385-S03-909</b>	nd	
<b>385-S03-090</b>	14000	D
<u>Date Analyzed: 8/21/2001</u>		
<b>BLANK</b>	nd	
<b>385-S03-094</b>	6900	
<b>385-S03-095</b>	740	
<u>Date Analyzed: 8/23/2001</u>		
<b>BLANK</b>	nd	
<b>385-S21-063</b>	1100	Z
<b>385-S21-062</b>	36000	Z

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Method =	TPH
Analyte =	Gasoline C <sub>6</sub> -C <sub>12</sub>
Detection Limit -	50
<b>SAMPLE I.D.</b>	
Date Analyzed: <u>8/24/2001</u>	
BLANK	nd
385-S04-229	nd
385-S04-230	nd
385-S10-011	nd
385-S10-008	nd
385-S10-009	nd
385-S10-010	nd

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Method =	TPH		
Analyte =	Gasoline		
	C <sub>6</sub> -C <sub>12</sub>		
Detection Limit -	50		
<b>SAMPLE I.D.</b>			
Date Analyzed: <u>8/27/2001</u>			
BLANK	nd		
385-S04-921	nd		
385-S04-231	120	Z	
385-S03-097	150	Z	
385-S03-096	42000	Y	
385-S03-098	1000000	Y	
385-S03-099	1500	Y	
385-S03-093	500	Y	
Date Analyzed: <u>8/28/2001</u>			
BLANK	nd		
385-S21-904	nd		
385-S21-064	nd		
385-S21-065	90	Z	
385-S21-066	nd		
Date Analyzed: <u>8/29/2001</u>			
BLANK	nd		
385-S03-100	2900	Z	
385-S03-101	66	Z	
385-S03-910	nd		

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Method =	TPH
Analyte =	Gasoline C <sub>6</sub> -C <sub>12</sub>
Detection Limit -	50
<b>SAMPLE I.D.</b>	
Date Analyzed: <u>8/31/2001</u>	
BLANK	nd
385-S10-012	nd
385-S10-013	nd
385-S10-014	nd
385-S10-015	nd

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

Client: Uribe & Associates  
Project: Alameda Point

Matrix: soil  
Units: ug/kg

Method =	TPH
Analyte =	Gasoline C <sub>8</sub> -C <sub>12</sub>
Detection Limit -	100
<b>SAMPLE I.D.</b>	
Date Analyzed: <u>8/2/2001</u>	
BLANK	nd
385-S11-004	nd

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4



# Report Summary

Client: Uribe & Associates  
Project: Alameda Point

Matrix: soil  
Units: ug/kg

Method =	TPH
Analyte =	Gasoline C <sub>6</sub> -C <sub>12</sub>
Detection Limit -	100
<b>SAMPLE I.D.</b>	
Date Analyzed: <u>8/8/2001</u>	
BLANK	nd
385-S04-057	nd

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4



# Report Summary

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Method = Analyte =	TPH Diesel C <sub>13</sub> -C <sub>24</sub>	TPH Motor Oil			
Detection Limit -	200	200			
<b>SAMPLE I.D.</b>			<b>Surr Rec(%)</b>	<b>QC Limits</b>	<b>Amt. Spiked</b>
Date Analyzed: <u>7/31/2001</u>					
BLANK	nd	nd	94	50-150%	100mg
385-S05-076	nd	nd	84	50-150%	100mg
385-S21-020	nd	nd	76	50-150%	100mg
Date Analyzed: <u>8/2/2001</u>					
BLANK	nd	nd	69	50-150%	100mg
385-S11-904	nd	nd	83	50-150%	100mg
385-S11-005	nd	nd	66	50-150%	100mg

Footnotes: See Footnote Summary page

Analyses performed by: JN  
UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Method =	TPH	TPH			
Analyte =	Diesel	Motor Oil			
	C <sub>13</sub> -C <sub>24</sub>				
Detection Limit -	200	200			
<b>SAMPLE I.D.</b>			<b>Surr Rec(%)</b>	<b>QC Limits</b>	<b>Amt. Spiked</b>
<u>Date Analyzed:</u> 8/7/2001					
BLANK	nd	nd	84	50-150%	100mg
385-S16-023	320	nd	69	50-150%	100mg
385-S04-138	240	nd	66	50-150%	100mg
385-S06-025	nd	nd	55	50-150%	100mg
385-S06-028	nd	nd	70	50-150%	100mg
385-S21-030	1400	nd	85	50-150%	100mg
385-S21-033	310	nd	64	50-150%	100mg
<u>Date Analyzed:</u> 8/8/2001					
BLANK	nd	nd	66	50-150%	100mg
385-S09-034	nd	nd	94	50-150%	100mg
385-S04-141	nd	510	74	50-150%	100mg
385-S13-017	nd	nd	63	50-150%	100mg
385-S14-083	nd	nd	62	50-150%	100mg
385-S14-084	nd	nd	79	50-150%	100mg
385-S14-912	nd	nd	72	50-150%	100mg
<u>Date Analyzed:</u> 8/9/2001					
BLANK	nd	nd	62	50-150%	100mg
385-S13-014	nd	1300	79	50-150%	100mg
385-S23-015	2800 Y	nd	74	50-150%	100mg
385-S05-124	670	nd	86	50-150%	100mg
385-S05-121	nd	nd	88	50-150%	100mg
385-S14-055	nd	nd	68	50-150%	100mg

Footnotes: See Footnote Summary page  
 Analyses performed by: JN  
 UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Method =	TPH	TPH			
Analyte =	Diesel C <sub>13</sub> -C <sub>24</sub>	Motor Oil			
Detection Limit -	200	200			
<b>SAMPLE I.D.</b>			<b>Surr Rec(%)</b>	<b>QC Limits</b>	<b>Amt. Spiked</b>
Date Analyzed: 8/10/2001					
BLANK	nd	nd	72	50-150%	100mg
385-S14-052	nd	nd	90	50-150%	100mg
385-S04-058	nd	nd	81	50-150%	100mg

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Method =	TPH	TPH			
Analyte =	Diesel	Motor Oil			
	C <sub>13</sub> -C <sub>24</sub>				
Detection Limit -	200	200			
<b>SAMPLE I.D.</b>			<b>Surr Rec(%)</b>	<b>QC Limits</b>	<b>Amt. Spiked</b>
Date Analyzed: <u>8/16/2001</u>					
BLANK	nd	nd	74	50-150%	100mg
385-S04-203	nd	nd	79	50-150%	100mg
385-S04-204	nd	nd	68	50-150%	100mg
385-S04-205	nd	nd	75	50-150%	100mg
385-S04-206	nd	nd	79	50-150%	100mg
Date Analyzed: <u>8/17/2001</u>					
BLANK	nd	nd	73	50-150%	100mg
385-S16-038	nd	nd	81	50-150%	100mg

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Method =	TPH	TPH			
Analyte =	Diesel	Motor Oil			
	C <sub>13</sub> -C <sub>24</sub>				
Detection Limit -	200	200			
<b>SAMPLE I.D.</b>			<b>Surr Rec(%)</b>	<b>QC Limits</b>	<b>Amt. Spiked</b>
Date Analyzed: <u>8/22/2001</u>					
BLANK	nd	nd	68	50-150%	100mg
385-S21-062	560	nd	66	50-150%	100mg
385-S23-023	nd	nd	77	50-150%	100mg

Footnotes: See Footnote Summary page  
 Analyses performed by: JN  
 UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: soil  
 Units: mg/kg

Method =	TPH	TPH			
Analyte =	Diesel	Motor Oil			
	C <sub>13</sub> -C <sub>24</sub>				
Detection Limit -	10	10			
<b>SAMPLE I.D.</b>			<b>Surr Rec(%)</b>	<b>QC Limits</b>	<b>Amt. Spiked</b>
Date Analyzed: <u>8/2/2001</u>					
<b>BLANK</b>	nd	nd	69	50-150%	100mg
<b>385-S11-004</b>	18	nd	105	50-150%	100mg

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: soil  
 Units: mg/kg

Method =	TPH	TPH			
Analyte =	Diesel	Motor Oil			
	C <sub>13</sub> -C <sub>24</sub>				
Detection Limit -	10	10			
<b>SAMPLE I.D.</b>			<b>Surr Rec(%)</b>	<b>QC Limits</b>	<b>Amt. Spiked</b>
Date Analyzed: <u>8/9/2001</u>					
<b>BLANK</b>	nd	nd	62	50-150%	100mg
<b>385-S04-057</b>	19 Y	180 Y	68	50-150%	100mg

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Method =	TPH
Analyte =	JP-4
Detection Limit -	250
<b>SAMPLE I.D.</b>	
Date Analyzed: <u>7/24/2001</u>	
BLANK	nd
385-S04-052	280000
385-S04-053	15000
Date Analyzed: <u>7/25/2001</u>	
BLANK	nd
385-S04-054	3500
385-S04-055	2300
385-S04-056	1700

Footnotes: See Footnote Summary page

Analyses performed by: JN

UA071001-L4

QC Summary

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Method 8260	1,1-DCE	Benzene	TCE	Toluene	CI-Benz
Recovery % QC Limits	(60-120)	(60-120)	(60-120)	(60-120)	(60-120)
RPD - % QC Limits	<30	<30	<30	<30	<30
<u>Date Analyzed: 7/30/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.1	0.0	0.2	0.0
MS Amount Found	4.1	4.8	4.5	4.6	5.0
MSD Amount Found	4.0	4.6	4.3	4.3	4.8
MS Recovery	82.0	94.0	90.0	88.0	100.0
MSD Recovery	80.0	90.0	86.0	82.0	96.0
RPD - %	2.5	4.3	4.5	7.1	4.1
<u>Date Analyzed: 7/31/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.4	0.2	6.7	0.2
MS Amount Found	5.6	6.1	6.0	8.1	9.7
MSD Amount Found	4.1	4.7	4.4	10.1	4.8
MS Recovery	112.0	114.0	116.0	28.0	190.0
MSD Recovery	82.0	86.0	84.0	68.0	92.0
RPD - %	30.9	28.0	32.0	83.3	69.5
<u>Date Analyzed: 8/1/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.1	0.9	2.5	0.0
MS Amount Found	3.6	4.3	4.7	6.1	4.1
MSD Amount Found	3.7	4.2	4.5	5.7	4.3
MS Recovery	72.0	84.0	76.0	72.0	82.0
MSD Recovery	74.0	82.0	72.0	64.0	86.0
RPD - %	2.7	2.4	5.4	11.8	4.8

UA071001-L4

QC Summary

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Method 8260	1,1-DCE	Benzene	TCE	Toluene	Cl-Benz
Recovery % QC Limits	(60-120)	(60-120)	(60-120)	(60-120)	(60-120)
RPD - % QC Limits	<30	<30	<30	<30	<30
<u>Date Analyzed: 8/2/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	4.9	0.1	0.1	0.6	0.0
MS Amount Found	10.4	4.3	3.9	4.5	4.1
MSD Amount Found	10.9	4.2	3.9	4.4	4.1
MS Recovery	110.0	84.0	76.0	78.0	82.0
MSD Recovery	120.0	82.0	76.0	76.0	82.0
RPD - %	8.7	2.4	0.0	2.6	0.0
<u>Date Analyzed: 8/3/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	1.2	0.0	0.0	0.1	0.0
MS Amount Found	4.8	4.4	4.3	4.4	4.3
MSD Amount Found	4.8	4.4	4.1	4.2	4.3
MS Recovery	72.0	88.0	86.0	86.0	86.0
MSD Recovery	72.0	88.0	82.0	82.0	86.0
RPD - %	0.0	0.0	4.8	4.8	0.0

UA071001-L4

QC Summary

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Method 8260	1,1-DCE	Benzene	TCE	Toluene	Cl-Benz
Recovery % QC Limits	(60-120)	(60-120)	(60-120)	(60-120)	(60-120)
RPD - % QC Limits	<30	<30	<30	<30	<30
<u>Date Analyzed: 8/6/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.0	0.0	0.1	0.0
MS Amount Found	3.7	4.4	4.2	4.3	4.5
MSD Amount Found	3.8	4.2	4.1	4.1	4.3
MS Recovery	74.0	88.0	84.0	84.0	90.0
MSD Recovery	76.0	84.0	82.0	80.0	86.0
RPD - %	2.7	4.7	2.4	4.9	4.5
<u>Date Analyzed: 8/7/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.0	0.0	1.0	0.0
MS Amount Found	3.8	4.4	4.0	5.0	4.3
MSD Amount Found	3.8	4.3	4.0	4.9	4.3
MS Recovery	76.0	88.0	80.0	80.0	86.0
MSD Recovery	76.0	86.0	80.0	78.0	86.0
RPD - %	0.0	2.3	0.0	2.5	0.0
<u>Date Analyzed: 8/8/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.3	0.0	5.1	0.0
MS Amount Found	4.0	4.4	4.0	7.9	4.1
MSD Amount Found	4.2	4.7	4.3	9.5	4.5
MS Recovery	80.0	82.0	80.0	56.0	82.0
MSD Recovery	84.0	88.0	86.0	88.0	90.0
RPD - %	4.9	7.1	7.2	44.4	9.3

UA071001-L4

QC Summary

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Method 8260	1,1-DCE	Benzene	TCE	Toluene	Cl-Benz
Recovery % QC Limits	(60-120)	(60-120)	(60-120)	(60-120)	(60-120)
RPD - % QC Limits	<30	<30	<30	<30	<30
<u>Date Analyzed: 8/9/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.2	0.0	1.3	0.0
MS Amount Found	4.1	4.9	4.5	6.4	4.8
MSD Amount Found	4.3	5.0	4.6	6.6	4.7
MS Recovery	82.0	94.0	90.0	102.0	96.0
MSD Recovery	86.0	96.0	92.0	106.0	94.0
RPD - %	4.8	2.1	2.2	3.8	2.1
<u>Date Analyzed: 8/10/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.2	0.5	0.8	0.0
MS Amount Found	4.6	5.5	7.1	5.8	5.2
MSD Amount Found	4.9	5.5	5.5	5.9	5.4
MS Recovery	92.0	106.0	132.0	100.0	104.0
MSD Recovery	98.0	106.0	100.0	102.0	108.0
RPD - %	6.3	0.0	27.6	2.0	3.8

UA071001-L4

QC Summary

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Method 8260	1,1-DCE	Benzene	TCE	Toluene	Cl-Benz
Recovery % QC Limits	(60-120)	(60-120)	(60-120)	(60-120)	(60-120)
RPD - % QC Limits	<30	<30	<30	<30	<30
<u>Date Analyzed: 8/13/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.2	0.3	2.1	2.6	0.0
MS Amount Found	4.7	5.2	6.7	7.3	5.0
MSD Amount Found	4.5	5.1	6.5	7.0	4.7
MS Recovery	90.0	98.0	92.0	94.0	100.0
MSD Recovery	86.0	96.0	88.0	88.0	94.0
RPD - %	4.5	2.1	4.4	6.6	6.2
<u>Date Analyzed: 8/14/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.4	0.1	0.0	0.2	0.0
MS Amount Found	4.5	5.1	4.7	5.1	4.9
MSD Amount Found	4.9	5.4	5.1	5.3	5.3
MS Recovery	82.0	100.0	94.0	98.0	98.0
MSD Recovery	90.0	106.0	102.0	102.0	106.0
RPD - %	9.3	5.8	8.2	4.0	7.8
<u>Date Analyzed: 8/15/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.1	0.0	0.3	0.0
MS Amount Found	4.5	5.2	4.8	5.3	5.2
MSD Amount Found	4.6	5.1	4.7	5.0	5.2
MS Recovery	90.0	102.0	96.0	100.0	104.0
MSD Recovery	92.0	100.0	94.0	94.0	104.0
RPD - %	2.2	2.0	2.1	6.2	0.0

UA071001-L4

QC Summary

Client: Uribe & Associates  
 Project: Alameda Point Matrix: water

Method 8260	1,1-DCE	Benzene	TCE	Toluene	Cl-Benz
Recovery % QC Limits	(60-120)	(60-120)	(60-120)	(60-120)	(60-120)
RPD - % QC Limits	<30	<30	<30	<30	<30
Date Analyzed: 8/16/2001					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.2	0.0	1.0	0.0
MS Amount Found	4.6	5.4	5.0	5.5	5.5
MSD Amount Found	4.6	5.2	4.7	5.1	4.9
MS Recovery	92.0	104.0	100.0	90.0	110.0
MSD Recovery	92.0	100.0	94.0	82.0	98.0
RPD - %	0.0	3.9	6.2	9.3	11.5
Date Analyzed: 8/17/2001					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.1	0.0	0.3	0.0
MS Amount Found	4.4	5.2	4.7	5.1	5.2
MSD Amount Found	4.5	5.1	4.8	4.9	4.9
MS Recovery	88.0	102.0	94.0	96.0	104.0
MSD Recovery	90.0	100.0	96.0	92.0	98.0
RPD - %	2.2	2.0	2.1	4.3	5.9

UA071001-L4

QC Summary

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Method 8260	1,1-DCE	Benzene	TCE	Toluene	Cl-Benz
Recovery % QC Limits	(60-120)	(60-120)	(60-120)	(60-120)	(60-120)
RPD - % QC Limits	<30	<30	<30	<30	<30
<u>Date Analyzed: 8/20/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.2	0.0	0.3	0.0
MS Amount Found	4.0	5.1	4.3	4.6	4.3
MSD Amount Found	4.8	5.7	5.1	5.2	5.0
MS Recovery	80.0	98.0	86.0	86.0	86.0
MSD Recovery	96.0	110.0	102.0	98.0	100.0
RPD - %	18.2	11.5	17.0	13.0	15.1
<u>Date Analyzed: 8/21/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.1	0.2	0.4	0.0
MS Amount Found	5.0	5.9	5.5	5.6	5.5
MSD Amount Found	5.1	6.0	5.5	5.7	5.5
MS Recovery	100.0	116.0	106.0	104.0	110.0
MSD Recovery	102.0	118.0	106.0	106.0	110.0
RPD - %	2.0	1.7	0.0	1.9	0.0
<u>Date Analyzed: 8/22/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.2	0.0	2.1	0.0
MS Amount Found	4.4	5.2	4.7	6.2	4.6
MSD Amount Found	4.4	4.9	4.5	6.2	4.6
MS Recovery	88.0	100.0	94.0	82.0	92.0
MSD Recovery	88.0	94.0	90.0	82.0	92.0
RPD - %	0.0	6.2	4.3	0.0	0.0

UA071001-L4

**QC Summary**

Client: Uribe & Associates  
 Project: Alameda Point Matrix: water

Method 8260	1,1-DCE	Benzene	TCE	Toluene	Cl-Benz
Recovery % QC Limits	(60-120)	(60-120)	(60-120)	(60-120)	(60-120)
RPD - % QC Limits	<30	<30	<30	<30	<30
<u>Date Analyzed: 8/23/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.2	0.3	0.3	0.0
MS Amount Found	4.4	5.3	5.7	5.3	4.7
MSD Amount Found	4.6	5.3	6.0	5.1	4.6
MS Recovery	88.0	102.0	108.0	100.0	94.0
MSD Recovery	92.0	102.0	114.0	96.0	92.0
RPD - %	4.4	0.0	5.4	4.1	2.2
<u>Date Analyzed: 8/24/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.2	0.0	0.4	0.0
MS Amount Found	4.3	5.1	4.5	5.0	4.5
MSD Amount Found	4.4	5.0	4.5	4.8	4.4
MS Recovery	86.0	98.0	90.0	92.0	90.0
MSD Recovery	88.0	96.0	90.0	88.0	88.0
RPD - %	2.3	2.1	0.0	4.4	2.2

UA071001-L4

### QC Summary

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Method 8260	1,1-DCE	Benzene	TCE	Toluene	Cl-Benz
Recovery % QC Limits	(60-120)	(60-120)	(60-120)	(60-120)	(60-120)
RPD - % QC Limits	<30	<30	<30	<30	<30
<b>Date Analyzed: 8/27/2001</b>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.6	0.0	5.9	0.0
MS Amount Found	5.3	6.8	5.7	11.1	5.5
MSD Amount Found	5.4	6.8	5.7	11.2	5.5
MS Recovery	106.0	124.0	114.0	104.0	110.0
MSD Recovery	108.0	124.0	114.0	106.0	110.0
RPD - %	1.9	0.0	0.0	1.9	0.0
<b>Date Analyzed: 8/28/2001</b>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	1.0	0.0	1.1	0.0
MS Amount Found	5.1	6.7	5.4	6.5	5.2
MSD Amount Found	4.8	6.5	5.3	6.1	5.1
MS Recovery	102.0	114.0	108.0	108.0	104.0
MSD Recovery	96.0	110.0	106.0	100.0	102.0
RPD - %	6.1	3.6	1.9	7.7	1.9
<b>Date Analyzed: 8/29/2001</b>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.9	0.0	3.4	0.0
MS Amount Found	5.1	6.4	5.2	6.6	4.9
MSD Amount Found	5.4	6.5	5.5	6.6	5.0
MS Recovery	102.0	110.0	104.0	64.0	98.0
MSD Recovery	108.0	112.0	110.0	64.0	100.0
RPD - %	5.7	1.8	5.6	0.0	2.0

**UA071001-L4**

QC Summary

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Method 8260	1,1-DCE	Benzene	TCE	Toluene	CI-Benz
Recovery % QC Limits	(60-120)	(60-120)	(60-120)	(60-120)	(60-120)
RPD - % QC Limits	<30	<30	<30	<30	<30
<u>Date Analyzed: 8/30/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.2	0.0	0.8	0.0
MS Amount Found	5.4	6.2	5.7	6.6	4.8
MSD Amount Found	5.5	6.4	5.7	6.1	4.8
MS Recovery	108.0	120.0	114.0	116.0	96.0
MSD Recovery	110.0	124.0	114.0	106.0	96.0
RPD - %	1.8	3.3	0.0	9.0	0.0
<u>Date Analyzed: 8/31/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.0	0.2	0.4	0.0
MS Amount Found	3.8	4.4	4.2	4.6	4.2
MSD Amount Found	4.2	4.6	4.4	4.9	4.4
MS Recovery	76.0	88.0	80.0	84.0	84.0
MSD Recovery	84.0	92.0	84.0	90.0	88.0
RPD - %	10.0	4.4	4.9	6.9	4.7
<u>Date Analyzed: 9/4/2001</u>					
Spike Level (ug/l)	5.0	5.0	5.0	5.0	5.0
Sample Amount	0.0	0.5	0.2	0.4	0.0
MS Amount Found	3.2	4.1	3.6	4.0	3.9
MSD Amount Found	3.7	4.5	3.9	4.4	4.2
MS Recovery	64.0	72.0	68.0	72.0	78.0
MSD Recovery	74.0	80.0	74.0	80.0	84.0
RPD - %	14.5	10.5	8.5	10.5	7.4

UJA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water

Method	TPH	TPH
	gasoline	diesel
APR - % QC Limits	(75-125)	(75-125)
RPD - % QC Limits	<30	<30
<u>Date Analyzed: 7/31/2001</u>		
Spike Level (ug/L)	378	4200
Sample Conc.	110	nd
MS Amount Found	313	2000
MSD Amount Found	N/A	3200
APR - %	64.1	61.9
RPD - %		46.2
<u>Date Analyzed: 8/1/2001</u>		
Spike Level (ug/L)	378	
Sample Conc.	nd	
MS Amount Found	312	
MSD Amount Found	N/A	
APR - %	82.5	
RPD - %		
<u>Date Analyzed: 8/2/2001</u>		
Spike Level (ug/L)		4200
Sample Conc.		nd
MS Amount Found		3700
MSD Amount Found		3800
APR - %		89.3
RPD - %		2.7

UA071001-L4

Client: Uribe & Associates  
Project: Alameda Point

Matrix: soil

Method	TPH	TPH
	gasoline	diesel
APR - % QC Limits	(75-125)	(75-125)
RPD - % QC Limits	<30	<30
<u>Date Analyzed: 8/2/2001</u>		
Spike Level (mg/kg)	755	209
Sample Conc.	0	18
MS Amount Found	652	206
MSD Amount Found	N/A	214
APR - %	86.4	92.5
RPD - %		3.8

UA071001-L4

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Method	TPH gasoline	TPH diesel
APR - % QC Limits	(75-125)	(75-125)
RPD - % QC Limits	<30	<30
<u>Date Analyzed: 8/7/2001</u>		
Spike Level (mg/kg)	378	4200
Sample Conc.	2.1	0
MS Amount Found	334	2600
MSD Amount Found	N/A	360
APR - %	87.9	35.2
RPD - %		151.4
<u>Date Analyzed: 8/8/2001</u>		
Spike Level (mg/kg)		4200
Sample Conc.		0
MS Amount Found		4200
MSD Amount Found		4300
APR - %		101.2
RPD - %		2.4
<u>Date Analyzed: 8/9/2001</u>		
Spike Level (mg/kg)	378	4200
Sample Conc.	25	0
MS Amount Found	312	3200
MSD Amount Found	N/A	4400
APR - %	77.4	90.5
RPD - %		31.6

UA071001-L4

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water

Method	TPH gasoline	TPH diesel
APR - % QC Limits	(75-125)	(75-125)
RPD - % QC Limits	<30	<30
<u>Date Analyzed: 8/10/2001</u>		
Spike Level (mg/kg)		4200
Sample Conc.		0
MS Amount Found		3600
MSD Amount Found		4400
APR - %		95.2
RPD - %		20.0

UA071001-L4

Client: Uribe & Associates  
Project: Alameda Point

Matrix: soil

Method	TPH	TPH
	gasoline	diesel
APR - % QC Limits	(75-125)	(75-125)
RPD - % QC Limits	<30	<30
<u>Date Analyzed: 8/8/2001</u>		
Spike Level (mg/kg)	755	
Sample Conc.	0.6	
MS Amount Found	620	
MSD Amount Found	N/A	
APR - %	82.1	
RPD - %		

UA071001-L4

**QC Summary**

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water

Method	TPH	TPH
	gasoline	diesel
APR - % QC Limits	(75-125)	(75-125)
RPD - % QC Limits	<30	<30
<u>Date Analyzed: 8/16/2001</u>		
Spike Level (ug/l)	378	4200
Sample Conc.	46	0
MS Amount Found	442	4100
MSD Amount Found	N/A	4400
APR - %	104.2	101.2
RPD - %		7.1
<u>Date Analyzed: 8/17/2001</u>		
Spike Level (ug/l)		4200
Sample Conc.		0
MS Amount Found		3700
MSD Amount Found		4100
APR - %		92.9
RPD - %		10.3

UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water

Method	TPH	TPH
	gasoline	diesel
APR - % QC Limits	(75-125)	(75-125)
RPD - % QC Limits	<30	<30
<u>Date Analyzed: 8/20/2001</u>		
Spike Level (ug/l)	378	
Sample Conc.	131	
MS Amount Found	440	
MSD Amount Found	N/A	
APR - %	86.4	
RPD - %		
<u>Date Analyzed: 8/21/2001</u>		
Spike Level (ug/l)	378	
Sample Conc.	742	
MS Amount Found	955	
MSD Amount Found	N/A	
APR - %	85.3	
RPD - %		
<u>Date Analyzed: 8/22/2001</u>		
Spike Level (ug/l)		4200
Sample Conc.		0
MS Amount Found		3800
MSD Amount Found		3900
APR - %		91.7
RPD - %		2.6

UA071001-L4

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Method	TPH	
	gasoline	diesel
APR - % QC Limits	(75-125)	(75-125)
RPD - % QC Limits	<30	<30
<u>Date Analyzed: 8/23/2001</u>		
Spike Level (ug/l)	378	
Sample Conc.	1101	
MS Amount Found	1211	
MSD Amount Found	N/A	
APR - %	81.9	
RPD - %		
<u>Date Analyzed: 8/24/2001</u>		
Spike Level (ug/l)	378	
Sample Conc.	19	
MS Amount Found	377	
MSD Amount Found	N/A	
APR - %	95.0	
RPD - %		

UA071001-L4

Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water

Method	TPH gasoline	TPH diesel
APR - % QC Limits	(75-125)	(75-125)
RPD - % QC Limits	<30	<30
<u>Date Analyzed: 8/27/2001</u>		
Spike Level (ug/l)	378	
Sample Conc.	153	
MS Amount Found	400	
MSD Amount Found	N/A	
APR - %	75.3	
RPD - %		
<u>Date Analyzed: 8/28/2001</u>		
Spike Level (ug/l)	378	
Sample Conc.	22	
MS Amount Found	386	
MSD Amount Found	N/A	
APR - %	96.5	
RPD - %		
<u>Date Analyzed: 8/29/2001</u>		
Spike Level (ug/l)	378	
Sample Conc.	66	
MS Amount Found	456	
MSD Amount Found	N/A	
APR - %	102.7	
RPD - %		

UA071001-L4



# Calibration

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 30 Jul 2001 10:10  
Analysis Time: am  
Dilution Factor: 1

<u>Compound</u>		<u>Amount Found</u>	<u>Percent Diff</u>	<u>CCC</u> (-20 to +20%) <u>Pass</u>	<u>EPA 8260</u> (-20 to +20%) <u>Pass</u>
Dichlorodifluoromethane		47	-6		yes
Chloromethane		50	-1		yes
Vinyl Chloride	CCC	43	-14	yes	yes
Bromomethane		30	-41		no
Chloroethane		46	-8		yes
Trichlorofluoromethane		45	-11		yes
1,1-Dichloroethene	CCC	42	-16	yes	yes
Methylene Chloride		46	-8		yes
Methyl-t-butylether		48	-4		yes
trans-1,2-Dichloroethene		46	-8		yes
1,1-Dichloroethane		46	-9		yes
2,2-Dichloropropane		53	7		yes
cis-1,2-Dichloroethene		48	-4		yes
Chloroform	CCC	43	-13	yes	yes
Bromochloromethane		49	-3		yes
1,1,1-Trichloroethane		43	-14		yes
1,1-Dichloropropene		58	16		yes
Carbon Tetrachloride		41	-17		yes
1,2-Dichloroethane		42	-17		yes
Benzene		47	-6		yes
Trichloroethene		46	-8		yes
1,2-Dichloropropane	CCC	50	0	yes	yes
Bromodichloromethane		44	-11		yes
Dibromomethane		46	-8		yes
cis-1,3-Dichloropropene		50	-1		yes
Toluene	CCC	48	-4	yes	yes
trans-1,3-Dichloropropene		52	4		yes
1,1,2-Trichloroethane		50	1		yes
1,2-Dibromoethane		51	1		yes
1,3-Dichloropropane		50	1		yes



# Calibration Certification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

EPA 8260  
(-20 to +20%)

Sample Name:	CONCAL			EPA 8260
Compound	Amount Found	Percent Diff		(-20 to +20%)
				Pass
Tetrachloroethene	46	-8		yes
Dibromochloromethane	47	-6		yes
Chlorobenzene	48	-4		yes
Ethylbenzene	CCC 44	-11	yes	yes
1,1,1,2-Tetrachloroethane	48	-5		yes
m,p-Xylene	96	-4		yes
o-Xylene	48	-4		yes
Styrene	48	-5		yes
Bromoform	50	0		yes
Isopropylbenzene	45	-10		yes
1,1,2,2-Tetrachloroethane	52	4		yes
1,2,3-Trichloropropane	52	4		yes
n-propylbenzene	47	-6		yes
Bromobenzene	45	-10		yes
1,3,5-Trimethylbenzene	43	-13		yes
2-Chlorotoluene	46	-8		yes
4-Chlorotoluene	46	-8		yes
tert-Butylbenzene	41	-17		yes
1,2,4-Trimethylbenzene	44	-13		yes
sec-Butylbenzene	43	-14		yes
p-Isopropyltoluene	43	-13		yes
1,3-Dichlorobenzene	44	-13		yes
1,4-Dichlorobenzene	45	-10		yes
n-Butylbenzene	47	-6		yes
1,2-Dichlorobenzene	48	-3		yes
1,2-Dibromo-3-chloropropane	60	19		yes
1,2,4-Trichlorobenzene	46	-8		yes
Hexachlorobutadiene	38	-25		no
Naphthalene	55	9		yes
1,2,3-Trichlorobenzene	44	-12		yes
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		
DBFM	50 ng	50-150	98	
1,2-DCA-d4	50 ng	50-150	77	
Toluene - d8	50 ng	50-150	102	
1,4-BFB	50 ng	50-150	128	

**SUMMATION**  
CCC compounds PASS the 8260B criteria

**CALIBRATION VERIFIED**



# Calibration Verification

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 31 Jul 2001 9:24  
Analysis Time: am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	49	-1		yes
Chloromethane	53	5		yes
Vinyl Chloride	CCC 46	-8	yes	yes
Bromomethane	64	29		no
Chloroethane	70	40		no
Trichlorofluoromethane	53	6		yes
1,1-Dichloroethene	CCC 44	-12	yes	yes
Methylene Chloride	48	-4		yes
Methyl-t-butylether	54	9		yes
trans-1,2-Dichloroethene	46	-7		yes
1,1-Dichloroethane	47	-7		yes
2,2-Dichloropropane	57	15		yes
cis-1,2-Dichloroethene	48	-4		yes
Chloroform	CCC 46	-7	yes	yes
Bromochloromethane	48	-5		yes
1,1,1-Trichloroethane	44	-11		yes
1,1-Dichloropropene	46	-8		yes
Carbon Tetrachloride	43	-14		yes
1,2-Dichloroethane	42	-16		yes
Benzene	50	0		yes
Trichloroethene	45	-10		yes
1,2-Dichloropropane	CCC 50	1	yes	yes
Bromodichloromethane	45	-10		yes
Dibromomethane	46	-9		yes
cis-1,3-Dichloropropene	48	-4		yes
Toluene	CCC 48	-4	yes	yes
trans-1,3-Dichloropropene	49	-2		yes
1,1,2-Trichloroethane	48	-5		yes
1,2-Dibromoethane	50	1		yes
1,3-Dichloropropane	51	1		yes



**Calibration**  
**EPA Method 8260B**  
 (5030 Prep.)



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name: <u>Compound</u>	CONCAL		EPA 8260 (-20 to +20%)	<u>Pass</u>
	<u>Amount Found</u>	<u>Percent Diff</u>		
Tetrachloroethene	47	-7		yes
Dibromochloromethane	45	-9		yes
Chlorobenzene	48	-4		yes
Ethylbenzene	CCC 44	-12	yes	yes
1,1,1,2-Tetrachloroethane	45	-9		yes
m,p-Xylene	96	-4		yes
o-Xylene	48	-4		yes
Styrene	47	-7		yes
Bromoform	46	-8		yes
Isopropylbenzene	48	-4		yes
1,1,2,2-Tetrachloroethane	57	13		yes
1,2,3-Trichloropropane	53	6		yes
n-propylbenzene	49	-1		yes
Bromobenzene	48	-4		yes
1,3,5-Trimethylbenzene	45	-11		yes
2-Chlorotoluene	49	-1		yes
4-Chlorotoluene	49	-2		yes
tert-Butylbenzene	40	-20		no
1,2,4-Trimethylbenzene	47	-7		yes
sec-Butylbenzene	40	-20		no
p-Isopropyltoluene	40	-20		yes
1,3-Dichlorobenzene	46	-8		yes
1,4-Dichlorobenzene	45	-10		yes
n-Butylbenzene	44	-11		yes
1,2-Dichlorobenzene	47	-6		yes
1,2-Dibromo-3-chloropropane	58	16		yes
1,2,4-Trichlorobenzene	35	-29		no
Hexachlorobutadiene	29	-42		no
Naphthalene	39	-22		no
1,2,3-Trichlorobenzene	32	-36		no
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>SUMMATION</u>	
DBFM	50 ng	50-150	95	
1,2-DCA-d4	50 ng	50-150	74	
Toluene - d8	50 ng	50-150	99	
1,4-BFB	50 ng	50-150	115	

CCC compounds PASS the 8260B criteria

**CALIBRATION VERIFIED**



**Calibration**  
**EPA Method 8260B**  
 ( 5030 Prep.)



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

**Sample Name:** CONCAL  
**Analysis Date:** 1 Aug 2001 8:28  
**Analysis Time:** am  
**Dilution Factor:** 1

<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	<u>CCC</u> (-20 to +20%) <u>Pass</u>	<u>EPA 8260</u> (-20 to +20%) <u>Pass</u>
Dichlorodifluoromethane	38	-25		no
Chloromethane	33	-33		no
Vinyl Chloride	CCC 33	-35	no	no
Bromomethane	33	-35		no
Chloroethane	34	-32		no
Trichlorofluoromethane	39	-22		no
1,1-Dichloroethene	CCC 33	-34	no	no
Methylene Chloride	37	-26		no
Methyl-t-butylether	35	-31		no
trans-1,2-Dichloroethene	36	-27		no
1,1-Dichloroethane	35	-30		no
2,2-Dichloropropane	40	-21		no
cis-1,2-Dichloroethene	37	-27		no
Chloroform	CCC 36	-29	no	no
Bromochloromethane	37	-25		no
1,1,1-Trichloroethane	34	-33		no
1,1-Dichloropropene	35	-29		no
Carbon Tetrachloride	33	-34		no
1,2-Dichloroethane	32	-36		no
Benzene	38	-24		no
Trichloroethene	35	-30		no
1,2-Dichloropropane	CCC 37	-26	no	no
Bromodichloromethane	34	-32		no
Dibromomethane	37	-27		no
cis-1,3-Dichloropropene	37	-26		no
Toluene	CCC 37	-25	no	no
trans-1,3-Dichloropropene	36	-28		no
1,1,2-Trichloroethane	37	-27		no
1,2-Dibromoethane	37	-26		no
1,3-Dichloropropane	37	-26		no



Client: Uribe & Associates  
 Project: Alameda Point

Calibration Verification  
 EPA Method 8260B  
 (5030 Prep.)

Matrix: water  
 Units: ug/L

Sample Name:	CONCAL	EPA 8260 (-20 to +20%)	
Compound	Amount Found	Percent Diff	Pass
Tetrachloroethene	35	-29	no
Dibromochloromethane	33	-33	no
Chlorobenzene	38	-25	no
Ethylbenzene	CCC 34	-32	no
1,1,1,2-Tetrachloroethane	34	-32	no
m,p-Xylene	73	-27	no
o-Xylene	37	-26	no
Styrene	36	-28	no
Bromoform	35	-30	no
Isopropylbenzene	34	-32	no
1,1,2,2-Tetrachloroethane	41	-18	yes
1,2,3-Trichloropropane	38	-24	no
n-propylbenzene	37	-26	no
Bromobenzene	36	-28	no
1,3,5-Trimethylbenzene	31	-38	no
2-Chlorotoluene	37	-26	no
4-Chlorotoluene	38	-25	no
tert-Butylbenzene	28	-44	no
1,2,4-Trimethylbenzene	32	-36	no
sec-Butylbenzene	28	-45	no
p-Isopropyltoluene	28	-45	no
1,3-Dichlorobenzene	35	-31	no
1,4-Dichlorobenzene	35	-30	no
n-Butylbenzene	31	-38	no
1,2-Dichlorobenzene	36	-29	no
1,2-Dibromo-3-chloropropane	35	-29	no
1,2,4-Trichlorobenzene	27	-46	no
Hexachlorobutadiene	22	-56	no
Naphthalene	27	-47	no
1,2,3-Trichlorobenzene	25	-50	no
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	
DBFM	50 ng	50-150	80
1,2-DCA-d4	50 ng	50-150	66
Toluene - d8	50 ng	50-150	81
1,4-BFB	50 ng	50-150	69

**SUMMATION**  
 CCC compounds do not pass the 8260B criteria  
 All compounds PASS the average % Diff. Criteria **CALIBRATION VERIFIED**  
 1 compounds PASS the 20% criteria



# Calibration Verification

EPA Method 8260B  
(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 2 Aug 2001 8:29  
Analysis Time: am  
Dilution Factor: 1

<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	<u>CCC</u> (-20 to +20%) <u>Pass</u>	<u>EPA 8260</u> (-20 to +20%) <u>Pass</u>
Dichlorodifluoromethane	39	-21		no
Chloromethane	39	-23		no
Vinyl Chloride	CCC 38	-23	no	no
Bromomethane	42	-16		yes
Chloroethane	55	10		yes
Trichlorofluoromethane	42	-17		yes
1,1-Dichloroethene	CCC 37	-26	no	no
Methylene Chloride	42	-16		yes
Methyl-t-butylether	37	-26		no
trans-1,2-Dichloroethene	40	-19		yes
1,1-Dichloroethane	40	-19		yes
2,2-Dichloropropane	41	-18		yes
cis-1,2-Dichloroethene	42	-16		yes
Chloroform	CCC 40	-20	yes	yes
Bromochloromethane	42	-17		yes
1,1,1-Trichloroethane	38	-24		no
1,1-Dichloropropene	40	-21		no
Carbon Tetrachloride	36	-28		no
1,2-Dichloroethane	36	-29		no
Benzene	44	-13		yes
Trichloroethene	41	-19		yes
1,2-Dichloropropane	CCC 43	-14	yes	yes
Bromodichloromethane	40	-20		no
Dibromomethane	42	-17		yes
cis-1,3-Dichloropropene	42	-17		yes
Toluene	CCC 42	-16	yes	yes
trans-1,3-Dichloropropene	41	-18		yes
1,1,2-Trichloroethane	43	-14		yes
1,2-Dibromoethane	43	-14		yes
1,3-Dichloropropane	42	-17		yes



# Calibration Certification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

EPA 8260  
(-20 to +20%)

Sample Name:	CONCAL			EPA 8260
Compound	Amount Found	Percent Diff		Pass
Tetrachloroethene	40	-19		yes
Dibromochloromethane	37	-25		no
Chlorobenzene	42	-16		yes
Ethylbenzene	CCC 37	-25	no	no
1,1,1,2-Tetrachloroethane	37	-26		no
m,p-Xylene	82	-18		yes
o-Xylene	41	-19		yes
Styrene	40	-20		no
Bromoform	38	-24		no
Isopropylbenzene	39	-23		no
1,1,2,2-Tetrachloroethane	45	-10		yes
1,2,3-Trichloropropane	39	-21		no
n-propylbenzene	41	-19		yes
Bromobenzene	41	-18		yes
1,3,5-Trimethylbenzene	34	-31		no
2-Chlorotoluene	41	-19		yes
4-Chlorotoluene	41	-18		yes
tert-Butylbenzene	32	-36		no
1,2,4-Trimethylbenzene	36	-28		no
sec-Butylbenzene	31	-38		no
p-Isopropyltoluene	31	-39		no
1,3-Dichlorobenzene	39	-22		no
1,4-Dichlorobenzene	38	-24		no
n-Butylbenzene	33	-34		no
1,2-Dichlorobenzene	38	-23		no
1,2-Dibromo-3-chloropropane	35	-31		no
1,2,4-Trichlorobenzene	28	-44		no
Hexachlorobutadiene	26	-48		no
Naphthalene	26	-48		no
1,2,3-Trichlorobenzene	24	-53		no
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		
DBFM	50 ng	50-150	82	
1,2-DCA-d4	50 ng	50-150	69	
Toluene - d8	50 ng	50-150	83	
1,4-BFB	50 ng	50-150	73	

### SUMMATION

CCC compounds do not pass the 8260B criteria  
 All compounds PASS the average % Diff. Criteria **CALIBRATION VERIFIED**  
 29 compounds PASS the 20% criteria



# Calibration

EPA Method 8260B  
( 5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 3 Aug 2001 8:23  
Analysis Time: am  
Dilution Factor: 1

<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	CCC (-20 to +20%) <u>Pass</u>	EPA 8260 (-20 to +20%) <u>Pass</u>
Dichlorodifluoromethane	37	-26		no
Chloromethane	35	-31		no
Vinyl Chloride	CCC 33	-33	no	no
Bromomethane	35	-29		no
Chloroethane	35	-29		no
Trichlorofluoromethane	40	-21		no
1,1-Dichloroethene	CCC 37	-26	no	no
Methylene Chloride	41	-17		yes
Methyl-t-butylether	36	-29		no
trans-1,2-Dichloroethene	40	-19		yes
1,1-Dichloroethane	40	-20		yes
2,2-Dichloropropane	41	-17		yes
cis-1,2-Dichloroethene	42	-16		yes
Chloroform	CCC 40	-20	no	no
Bromochloromethane	43	-14		yes
1,1,1-Trichloroethane	38	-25		no
1,1-Dichloropropene	39	-23		no
Carbon Tetrachloride	37	-27		no
1,2-Dichloroethane	37	-26		no
Benzene	43	-14		yes
Trichloroethene	39	-22		no
1,2-Dichloropropane	CCC 43	-14	yes	yes
Bromodichloromethane	40	-21		no
Dibromomethane	45	-10		yes
cis-1,3-Dichloropropene	42	-17		yes
Toluene	CCC 42	-17	yes	yes
trans-1,3-Dichloropropene	43	-14		yes
1,1,2-Trichloroethane	44	-11		yes
1,2-Dibromoethane	45	-10		yes
1,3-Dichloropropane	44	-12		yes



# Calibration

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: Compound	CONCAL		EPA 8260 (-20 to +20%)	
	Amount Found	Percent Diff	Pass	
Tetrachloroethene	41	-18	yes	
Dibromochloromethane	39	-22	no	
Chlorobenzene	42	-17	yes	
Ethylbenzene	CCC 37	-26	no	no
1,1,1,2-Tetrachloroethane	39	-22	no	
m,p-Xylene	82	-18	yes	
o-Xylene	41	-17	yes	
Styrene	40	-20	no	
Bromoform	41	-18	yes	
Isopropylbenzene	39	-22	no	
1,1,2,2-Tetrachloroethane	50	0	yes	
1,2,3-Trichloropropane	45	-11	yes	
n-propylbenzene	40	-20	no	
Bromobenzene	41	-19	yes	
1,3,5-Trimethylbenzene	36	-27	no	
2-Chlorotoluene	40	-19	yes	
4-Chlorotoluene	40	-21	no	
tert-Butylbenzene	33	-35	no	
1,2,4-Trimethylbenzene	38	-24	no	
sec-Butylbenzene	33	-33	no	
p-Isopropyltoluene	34	-33	no	
1,3-Dichlorobenzene	40	-19	yes	
1,4-Dichlorobenzene	39	-22	no	
n-Butylbenzene	38	-24	no	
1,2-Dichlorobenzene	41	-19	yes	
1,2-Dibromo-3-chloropropane	51	1	yes	
1,2,4-Trichlorobenzene	36	-27	no	
Hexachlorobutadiene	25	-50	no	
Naphthalene	41	-19	yes	
1,2,3-Trichlorobenzene	34	-31	no	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>SUMMATION</u>	
DBFM	50 ng	50-150	81	CCC compounds do not pass the 8260B criteria
1,2-DCA-d4	50 ng	50-150	68	All compounds PASS the average % Diff. Criteria
Toluene - d8	50 ng	50-150	83	28 compounds PASS the 20% criteria
1,4-BFB	50 ng	50-150	71	<b>CALIBRATION VERIFIED</b>



# Calibration

EPA Method 8260B

( 5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 6 Aug 2001 8:35  
Analysis Time: am  
Dilution Factor: 1

CCC EPA 8260  
(-20 to +20%) (-20 to +20%)  
Pass Pass

<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	<u>Pass</u>	<u>Pass</u>
Dichlorodifluoromethane	43	-15		yes
Chloromethane	39	-21		no
Vinyl Chloride	CCC 40	-19	yes	yes
Bromomethane	61	21		no
Chloroethane	63	26		no
Trichlorofluoromethane	45	-10		yes
1,1-Dichloroethene	CCC 38	-24	no	no
Methylene Chloride	44	-11		yes
Methyl-t-butylether	36	-28		no
trans-1,2-Dichloroethene	44	-13		yes
1,1-Dichloroethane	42	-16		yes
2,2-Dichloropropane	43	-15		yes
cis-1,2-Dichloroethene	44	-11		yes
Chloroform	CCC 42	-15	yes	yes
Bromochloromethane	44	-12		yes
1,1,1-Trichloroethane	39	-22		no
1,1-Dichloropropene	41	-18		yes
Carbon Tetrachloride	38	-25		no
1,2-Dichloroethane	38	-25		no
Benzene	45	-9		yes
Trichloroethene	43	-14		yes
1,2-Dichloropropane	CCC 45	-10	yes	yes
Bromodichloromethane	41	-18		yes
Dibromomethane	46	-7		yes
cis-1,3-Dichloropropene	45	-10		yes
Toluene	CCC 50	-1	yes	yes
trans-1,3-Dichloropropene	44	-13		yes
1,1,2-Trichloroethane	47	-7		yes
1,2-Dibromoethane	46	-9		yes
1,3-Dichloropropane	45	-10		yes



# Calibration Verification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates

Project: Alameda Point

Matrix: water

Units: ug/L

Sample Name:	CONCAL		EPA 8260 (-20 to +20%)
<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	<u>Pass</u>
Tetrachloroethene	43	-14	yes
Dibromochloromethane	41	-17	yes
Chlorobenzene	44	-12	yes
Ethylbenzene	CCC 40	-21	no
1,1,1,2-Tetrachloroethane	39	-21	no
m,p-Xylene	86	-14	yes
o-Xylene	44	-11	yes
Styrene	43	-15	yes
Bromoform	42	-16	yes
Isopropylbenzene	40	-19	yes
1,1,2,2-Tetrachloroethane	49	-1	yes
1,2,3-Trichloropropane	46	-9	yes
n-propylbenzene	42	-16	yes
Bromobenzene	43	-15	yes
1,3,5-Trimethylbenzene	37	-26	no
2-Chlorotoluene	42	-17	yes
4-Chlorotoluene	42	-16	yes
tert-Butylbenzene	34	-32	no
1,2,4-Trimethylbenzene	39	-22	no
sec-Butylbenzene	33	-34	no
p-Isopropyltoluene	33	-35	no
1,3-Dichlorobenzene	42	-17	yes
1,4-Dichlorobenzene	41	-18	yes
n-Butylbenzene	37	-26	no
1,2-Dichlorobenzene	43	-15	yes
1,2-Dibromo-3-chloropropane	40	-20	no
1,2,4-Trichlorobenzene	31	-38	no
Hexachlorobutadiene	22	-56	no
Naphthalene	28	-44	no
1,2,3-Trichlorobenzene	28	-45	no
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>SUMMATION</u>
DBFM	50 ng	50-150	83
1,2-DCA-d4	50 ng	50-150	68
Toluene - d8	50 ng	50-150	85
1,4-BFB	50 ng	50-150	75
			CCC compounds do not pass the 8260B criteria
			All compounds PASS the average % Diff. Criteria
			39 compounds PASS the 20% criteria

**CALIBRATION VERIFIED**



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 7 Aug 2001 8:30  
Analysis Time: am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	43	-15		yes
Chloromethane	38	-24		no
Vinyl Chloride	CCC 39	-22	no	no
Bromomethane	43	-15		yes
Chloroethane	48	-3		yes
Trichlorofluoromethane	44	-12		yes
1,1-Dichloroethene	CCC 38	-24	no	no
Methylene Chloride	44	-13		yes
Methyl-t-butylether	37	-27		no
trans-1,2-Dichloroethene	42	-16		yes
1,1-Dichloroethane	41	-18		yes
2,2-Dichloropropane	43	-15		yes
cis-1,2-Dichloroethene	44	-13		yes
Chloroform	CCC 41	-18	yes	yes
Bromochloromethane	42	-16		yes
1,1,1-Trichloroethane	38	-24		no
1,1-Dichloropropene	41	-19		yes
Carbon Tetrachloride	37	-26		no
1,2-Dichloroethane	36	-27		no
Benzene	45	-11		yes
Trichloroethene	41	-17		yes
1,2-Dichloropropane	CCC 44	-13	yes	yes
Bromodichloromethane	39	-22		no
Dibromomethane	43	-13		yes
cis-1,3-Dichloropropene	42	-15		yes
Toluene	CCC 44	-13	yes	yes
trans-1,3-Dichloropropene	43	-15		yes
1,1,2-Trichloroethane	45	-10		yes
1,2-Dibromoethane	45	-9		yes
1,3-Dichloropropane	44	-13		yes



**Calibration Certification**  
 EPA Method 8260B  
 (5030 Prep.)



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<b>Sample Name:</b>		<b>CONCAL</b>		<b>EPA 8260</b>	
				<b>(-20 to +20%)</b>	
<u>Compound</u>		<u>Amount Found</u>	<u>Percent Diff</u>	<u>Pass</u>	
Tetrachloroethene		41	-17	yes	
Dibromochloromethane		39	-22	no	
Chlorobenzene		44	-12	yes	
Ethylbenzene	CCC	40	-21	no	no
1,1,1,2-Tetrachloroethane		41	-19	yes	
m,p-Xylene		89	-11	yes	
o-Xylene		43	-14	yes	
Styrene		42	-16	yes	
Bromoform		41	-17	yes	
Isopropylbenzene		41	-18	yes	
1,1,2,2-Tetrachloroethane		46	-8	yes	
1,2,3-Trichloropropane		44	-12	yes	
n-propylbenzene		42	-16	yes	
Bromobenzene		42	-17	yes	
1,3,5-Trimethylbenzene		38	-25	no	
2-Chlorotoluene		42	-17	yes	
4-Chlorotoluene		42	-16	yes	
tert-Butylbenzene		34	-32	no	
1,2,4-Trimethylbenzene		40	-21	no	
sec-Butylbenzene		33	-34	no	
p-Isopropyltoluene		34	-33	no	
1,3-Dichlorobenzene		42	-17	yes	
1,4-Dichlorobenzene		41	-18	yes	
n-Butylbenzene		39	-23	no	
1,2-Dichlorobenzene		42	-17	yes	
1,2-Dibromo-3-chloropropane		42	-15	yes	
1,2,4-Trichlorobenzene		36	-28	no	
Hexachlorobutadiene		24	-52	no	
Naphthalene		37	-25	no	
1,2,3-Trichlorobenzene		32	-37	no	
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		<u>SUMMATION</u>	
DBFM	50 ng	50-150	81	CCC compounds do not pass the 8260B criteria	
1,2-DCA-d4	50 ng	50-150	63	All compounds PASS	the average % Diff. Criteria
Toluene - d8	50 ng	50-150	84	40 compounds PASS	the 20% criteria
1,4-BFB	50 ng	50-150	75	<b>CALIBRATION VERIFIED</b>	



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 8 Aug 2001 8:32  
Analysis Time: am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	46	-7		yes
Chloromethane	41	-18		yes
Vinyl Chloride	CCC 43	-14	yes	yes
Bromomethane	50	1		yes
Chloroethane	62	25		no
Trichlorofluoromethane	48	-4		yes
1,1-Dichloroethene	CCC 42	-16	yes	yes
Methylene Chloride	47	-7		yes
Methyl-t-butylether	42	-17		yes
trans-1,2-Dichloroethene	47	-6		yes
1,1-Dichloroethane	45	-9		yes
2,2-Dichloropropane	47	-5		yes
cis-1,2-Dichloroethene	47	-6		yes
Chloroform	CCC 45	-11	yes	yes
Bromochloromethane	47	-6		yes
1,1,1-Trichloroethane	43	-15		yes
1,1-Dichloropropene	45	-10		yes
Carbon Tetrachloride	41	-18		yes
1,2-Dichloroethane	40	-20		no
Benzene	49	-2		yes
Trichloroethene	46	-8		yes
1,2-Dichloropropane	CCC 48	-4	yes	yes
Bromodichloromethane	43	-14		yes
Dibromomethane	47	-5		yes
cis-1,3-Dichloropropene	47	-5		yes
Toluene	CCC 49	-3	yes	yes
trans-1,3-Dichloropropene	46	-7		yes
1,1,2-Trichloroethane	48	-4		yes
1,2-Dibromoethane	48	-5		yes
1,3-Dichloropropane	45	-11		yes



# Calibration Verification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

### Sample Name:

### CONCAL

EPA 8260  
(-20 to +20%)

<u>Compound</u>		<u>Amount Found</u>	<u>Percent Diff</u>	<u>Pass</u>
Tetrachloroethene		46	-9	yes
Dibromochloromethane		42	-15	yes
Chlorobenzene		46	-7	yes
Ethylbenzene	CCC	42	-15	yes
1,1,1,2-Tetrachloroethane		44	-13	yes
m,p-Xylene		94	-6	yes
o-Xylene		46	-8	yes
Styrene		46	-9	yes
Bromoform		43	-15	yes
Isopropylbenzene		44	-12	yes
1,1,2,2-Tetrachloroethane		47	-7	yes
1,2,3-Trichloropropane		45	-11	yes
n-propylbenzene		46	-9	yes
Bromobenzene		46	-8	yes
1,3,5-Trimethylbenzene		41	-18	yes
2-Chlorotoluene		45	-10	yes
4-Chlorotoluene		45	-10	yes
tert-Butylbenzene		37	-26	no
1,2,4-Trimethylbenzene		43	-14	yes
sec-Butylbenzene		37	-25	no
p-Isopropyltoluene		38	-24	no
1,3-Dichlorobenzene		45	-10	yes
1,4-Dichlorobenzene		44	-11	yes
n-Butylbenzene		43	-14	yes
1,2-Dichlorobenzene		44	-11	yes
1,2-Dibromo-3-chloropropane		42	-16	yes
1,2,4-Trichlorobenzene		40	-20	no
Hexachlorobutadiene		29	-41	no
Naphthalene		38	-23	no
1,2,3-Trichlorobenzene		36	-28	no

<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	
DBFM	50 ng	50-150	94
1,2-DCA-d4	50 ng	50-150	75
Toluene - d8	50 ng	50-150	99
1,4-BFB	50 ng	50-150	95

### SUMMATION

CCC compounds PASS the 8260B criteria

**CALIBRATION VERIFIED**



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 9 Aug 2001  
Analysis Time: 8:29 am  
Dilution Factor: 1

<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	CCC (-20 to +20%) <u>Pass</u>	EPA 8260 (-20 to +20%) <u>Pass</u>
Dichlorodifluoromethane	46	-9		yes
Chloromethane	46	-7		yes
Vinyl Chloride	CCC 48	-4	yes	yes
Bromomethane	72	44		no
Chloroethane	71	42		no
Trichlorofluoromethane	50	0		yes
1,1-Dichloroethene	CCC 42	-16	yes	yes
Methylene Chloride	48	-4		yes
Methyl-t-butylether	40	-20		no
trans-1,2-Dichloroethene	47	-6		yes
1,1-Dichloroethane	46	-8		yes
2,2-Dichloropropane	48	-4		yes
cis-1,2-Dichloroethene	49	-2		yes
Chloroform	CCC 46	-8	yes	yes
Bromochloromethane	46	-8		yes
1,1,1-Trichloroethane	42	-15		yes
1,1-Dichloropropene	46	-9		yes
Carbon Tetrachloride	41	-17		yes
1,2-Dichloroethane	40	-21		no
Benzene	51	1		yes
Trichloroethene	46	-8		yes
1,2-Dichloropropane	CCC 49	-2	yes	yes
Bromodichloromethane	44	-13		yes
Dibromomethane	45	-10		yes
cis-1,3-Dichloropropene	47	-6		yes
Toluene	CCC 48	-3	yes	yes
trans-1,3-Dichloropropene	46	-8		yes
1,1,2-Trichloroethane	47	-5		yes
1,2-Dibromoethane	48	-4		yes
1,3-Dichloropropane	47	-7		yes



# Calibration Certification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

EPA 8260  
(-20 to +20%)

Sample Name:	CONCAL			EPA 8260
<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>		<u>Pass</u>
Tetrachloroethene	46	-8		yes
Dibromochloromethane	43	-14		yes
Chlorobenzene	48	-4		yes
Ethylbenzene	CCC 43	-14	yes	yes
1,1,1,2-Tetrachloroethane	45	-11		yes
m,p-Xylene	96	-4		yes
o-Xylene	48	-4		yes
Styrene	46	-8		yes
Bromoform	44	-11		yes
Isopropylbenzene	48	-3		yes
1,1,2,2-Tetrachloroethane	54	8		yes
1,2,3-Trichloropropane	47	-6		yes
n-propylbenzene	48	-5		yes
Bromobenzene	48	-3		yes
1,3,5-Trimethylbenzene	46	-8		yes
2-Chlorotoluene	48	-4		yes
4-Chlorotoluene	47	-5		yes
tert-Butylbenzene	48	-4		yes
1,2,4-Trimethylbenzene	47	-7		yes
sec-Butylbenzene	48	-4		yes
p-Isopropyltoluene	45	-10		yes
1,3-Dichlorobenzene	48	-4		yes
1,4-Dichlorobenzene	46	-8		yes
n-Butylbenzene	47	-6		yes
1,2-Dichlorobenzene	47	-6		yes
1,2-Dibromo-3-chloropropane	53	6		yes
1,2,4-Trichlorobenzene	43	-14		yes
Hexachlorobutadiene	45	-10		yes
Naphthalene	45	-10		yes
1,2,3-Trichlorobenzene	42	-16		yes
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		
DBFM	50 ng	50-150	98	
1,2-DCA-d4	50 ng	50-150	79	
Toluene - d8	50 ng	50-150	104	
1,4-BFB	50 ng	50-150	98	

**SUMMATION**  
CCC compounds PASS the 8260B criteria

**CALIBRATION VERIFIED**



# Calibration Verification

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 10 Aug 2001  
Analysis Time: 8:22 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	51	1		yes
Chloromethane	53	7		yes
Vinyl Chloride	CCC 53	6	yes	yes
Bromomethane	30	-40		no
Chloroethane	74	49		no
Trichlorofluoromethane	54	9		yes
1,1-Dichloroethene	CCC 47	-6	yes	yes
Methylene Chloride	51	2		yes
Methyl-t-butylether	48	-4		yes
trans-1,2-Dichloroethene	53	5		yes
1,1-Dichloroethane	51	2		yes
2,2-Dichloropropane	53	5		yes
cis-1,2-Dichloroethene	53	5		yes
Chloroform	CCC 49	-3	yes	yes
Bromochloromethane	53	5		yes
1,1,1-Trichloroethane	46	-8		yes
1,1-Dichloropropene	50	0		yes
Carbon Tetrachloride	45	-10		yes
1,2-Dichloroethane	42	-15		yes
Benzene	56	12		yes
Trichloroethene	50	1		yes
1,2-Dichloropropane	CCC 54	7	yes	yes
Bromodichloromethane	47	-5		yes
Dibromomethane	51	3		yes
cis-1,3-Dichloropropene	51	3		yes
Toluene	CCC 53	5	yes	yes
trans-1,3-Dichloropropene	49	-1		yes
1,1,2-Trichloroethane	51	2		yes
1,2-Dibromoethane	50	0		yes
1,3-Dichloropropane	49	-1		yes



# Calibration / fication

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	CONCAL		EPA 8260 (-20 to +20%)
Compound	Amount Found	Percent Diff	Pass
Tetrachloroethene	51	3	yes
Dibromochloromethane	47	-6	yes
Chlorobenzene	52	5	yes
Ethylbenzene	CCC 48	-4	yes
1,1,1,2-Tetrachloroethane	48	-4	yes
m,p-Xylene	104	4	yes
o-Xylene	52	3	yes
Styrene	49	-2	yes
Bromoform	45	-9	yes
Isopropylbenzene	55	9	yes
1,1,2,2-Tetrachloroethane	53	5	yes
1,2,3-Trichloropropane	50	0	yes
n-propylbenzene	54	7	yes
Bromobenzene	54	9	yes
1,3,5-Trimethylbenzene	50	0	yes
2-Chlorotoluene	54	7	yes
4-Chlorotoluene	52	4	yes
tert-Butylbenzene	54	8	yes
1,2,4-Trimethylbenzene	51	2	yes
sec-Butylbenzene	52	4	yes
p-Isopropyltoluene	48	-4	yes
1,3-Dichlorobenzene	51	1	yes
1,4-Dichlorobenzene	50	1	yes
n-Butylbenzene	49	-3	yes
1,2-Dichlorobenzene	50	0	yes
1,2-Dibromo-3-chloropropane	52	4	yes
1,2,4-Trichlorobenzene	40	-19	yes
Hexachlorobutadiene	41	-18	yes
Naphthalene	38	-25	no
1,2,3-Trichlorobenzene	35	-29	no
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>SUMMATION</u>
DBFM	50 ng	50-150	96
1,2-DCA-d4	50 ng	50-150	71
Toluene - d8	50 ng	50-150	99
1,4-BFB	50 ng	50-150	92

CCC compounds PASS the 8260B criteria

**CALIBRATION VERIFIED**



# Calibration Certification

EPA Method 8260B

(5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 13 Aug 2001 10:47  
Analysis Time: am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	54	7		yes
Chloromethane	49	-2		yes
Vinyl Chloride	CCC 48	-4	yes	yes
Bromomethane	63	25		no
Chloroethane	75	50		no
Trichlorofluoromethane	55	11		yes
1,1-Dichloroethene	CCC 47	-6	yes	yes
Methylene Chloride	53	6		yes
Methyl-t-butylether	62	24		no
trans-1,2-Dichloroethene	54	9		yes
1,1-Dichloroethane	50	1		yes
2,2-Dichloropropane	63	26		no
cis-1,2-Dichloroethene	54	8		yes
Chloroform	CCC 64	28	no	no
Bromochloromethane	54	7		yes
1,1,1-Trichloroethane	48	-5		yes
1,1-Dichloropropene	50	-1		yes
Carbon Tetrachloride	46	-8		yes
1,2-Dichloroethane	44	-12		yes
Benzene	55	10		yes
Trichloroethene	52	3		yes
1,2-Dichloropropane	CCC 54	8	yes	yes
Bromodichloromethane	55	9		yes
Dibromomethane	52	4		yes
cis-1,3-Dichloropropene	53	5		yes
Toluene	CCC 55	9	yes	yes
trans-1,3-Dichloropropene	52	3		yes
1,1,2-Trichloroethane	54	7		yes
1,2-Dibromoethane	54	8		yes
1,3-Dichloropropane	51	2		yes



# Calibration / fication

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	CONCAL		EPA 8260
Compound	Amount Found	Percent Diff	(-20 to +20%) Pass
Tetrachloroethene	51	3	yes
Dibromochloromethane	51	1	yes
Chlorobenzene	53	7	yes
Ethylbenzene	CCC 49	-2	yes
1,1,1,2-Tetrachloroethane	49	-1	yes
m,p-Xylene	109	9	yes
o-Xylene	54	9	yes
Styrene	52	4	yes
Bromoform	49	-1	yes
Isopropylbenzene	51	1	yes
1,1,2,2-Tetrachloroethane	55	10	yes
1,2,3-Trichloropropane	50	-1	yes
n-propylbenzene	51	2	yes
Bromobenzene	51	2	yes
1,3,5-Trimethylbenzene	49	-1	yes
2-Chlorotoluene	51	3	yes
4-Chlorotoluene	52	3	yes
tert-Butylbenzene	43	-13	yes
1,2,4-Trimethylbenzene	50	0	yes
sec-Butylbenzene	47	-7	yes
p-Isopropyltoluene	47	-5	yes
1,3-Dichlorobenzene	52	4	yes
1,4-Dichlorobenzene	51	2	yes
n-Butylbenzene	52	3	yes
1,2-Dichlorobenzene	51	1	yes
1,2-Dibromo-3-chloropropane	59	18	yes
1,2,4-Trichlorobenzene	51	2	yes
Hexachlorobutadiene	40	-20	no
Naphthalene	60	20	yes
1,2,3-Trichlorobenzene	52	4	yes
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>SUMMATION</u>
DBFM	50 ng	50-150	100
1,2-DCA-d4	50 ng	50-150	78
Toluene - d8	50 ng	50-150	106
1,4-BFB	50 ng	50-150	106
			CCC compounds do not pass the 8260B criteria
			All compounds PASS the average % Diff. Criteria
			54 compounds PASS the 20% criteria

**CALIBRATION VERIFIED**



Calibration  
EPA Method 8260B  
( 5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 14 Aug 2001 9:03  
Analysis Time: am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) <u>Pass</u>	(-20 to +20%) <u>Pass</u>
Dichlorodifluoromethane	48	-4		yes
Chloromethane	51	3		yes
Vinyl Chloride	CCC 47	-6	yes	yes
Bromomethane	35	-30		no
Chloroethane	68	35		no
Trichlorofluoromethane	50	-1		yes
1,1-Dichloroethene	CCC 45	-10	yes	yes
Methylene Chloride	51	2		yes
Methyl-t-butylether	52	4		yes
trans-1,2-Dichloroethene	50	-1		yes
1,1-Dichloroethane	48	-4		yes
2,2-Dichloropropane	58	15		yes
cis-1,2-Dichloroethene	50	0		yes
Chloroform	CCC 58	17	yes	yes
Bromochloromethane	51	1		yes
1,1,1-Trichloroethane	45	-10		yes
1,1-Dichloropropene	48	-4		yes
Carbon Tetrachloride	43	-14		yes
1,2-Dichloroethane	43	-15		yes
Benzene	52	5		yes
Trichloroethene	49	-2		yes
1,2-Dichloropropane	CCC 51	2	yes	yes
Bromodichloromethane	52	4		yes
Dibromomethane	49	-2		yes
cis-1,3-Dichloropropene	51	2		yes
Toluene	CCC 51	2	yes	yes
trans-1,3-Dichloropropene	49	-2		yes
1,1,2-Trichloroethane	52	4		yes
1,2-Dibromoethane	51	1		yes
1,3-Dichloropropane	51	2		yes



**Calibration**      **ification**  
 EPA Method 8260B  
 (5030 Prep.)



Client:            Uribe & Associates  
 Project:          Alameda Point

Matrix:          water  
 Units:            ug/L

EPA 8260  
 (-20 to +20%)

<u>Sample Name:</u>	<b>CONCAL</b>			<u>Pass</u>
<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>		
Tetrachloroethene	51	2		yes
Dibromochloromethane	50	0		yes
Chlorobenzene	52	4		yes
Ethylbenzene	CCC    47	-5	yes	yes
1,1,1,2-Tetrachloroethane	47	-5		yes
m,p-Xylene	106	6		yes
o-Xylene	52	4		yes
Styrene	49	-2		yes
Bromoform	47	-6		yes
Isopropylbenzene	51	3		yes
1,1,2,2-Tetrachloroethane	58	16		yes
1,2,3-Trichloropropane	52	5		yes
n-propylbenzene	52	4		yes
Bromobenzene	52	5		yes
1,3,5-Trimethylbenzene	48	-4		yes
2-Chlorotoluene	52	4		yes
4-Chlorotoluene	51	2		yes
tert-Butylbenzene	45	-9		yes
1,2,4-Trimethylbenzene	49	-1		yes
sec-Butylbenzene	48	-4		yes
p-Isopropyltoluene	46	-7		yes
1,3-Dichlorobenzene	50	0		yes
1,4-Dichlorobenzene	49	-1		yes
n-Butylbenzene	51	2		yes
1,2-Dichlorobenzene	50	1		yes
1,2-Dibromo-3-chloropropane	63	25		no
1,2,4-Trichlorobenzene	47	-5		yes
Hexachlorobutadiene	40	-20		no
Naphthalene	51	2		yes
1,2,3-Trichlorobenzene	45	-10		yes
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		
DBFM	50 ng	50-150	98	
1,2-DCA-d4	50 ng	50-150	79	
Toluene - d8	50 ng	50-150	104	
1,4-BFB	50 ng	50-150	101	

**SUMMATION**  
 CCC compounds PASS      the 8260B criteria

**CALIBRATION VERIFIED**



# Calibration

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 15 Aug 2001 9:38  
Analysis Time: am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	45	-10		yes
Chloromethane	44	-13		yes
Vinyl Chloride	CCC 44	-13	yes	yes
Bromomethane	75	49		no
Chloroethane	72	43		no
Trichlorofluoromethane	48	-3		yes
1,1-Dichloroethene	CCC 49	-2	yes	yes
Methylene Chloride	57	14		yes
Methyl-t-butylether	55	9		yes
trans-1,2-Dichloroethene	55	10		yes
1,1-Dichloroethane	52	5		yes
2,2-Dichloropropane	60	21		no
cis-1,2-Dichloroethene	56	13		yes
Chloroform	CCC 62	24	no	no
Bromochloromethane	55	11		yes
1,1,1-Trichloroethane	49	-2		yes
1,1-Dichloropropene	52	4		yes
Carbon Tetrachloride	47	-6		yes
1,2-Dichloroethane	45	-9		yes
Benzene	57	15		yes
Trichloroethene	52	5		yes
1,2-Dichloropropane	CCC 55	9	yes	yes
Bromodichloromethane	55	11		yes
Dibromomethane	50	0		yes
cis-1,3-Dichloropropene	54	8		yes
Toluene	CCC 55	10	yes	yes
trans-1,3-Dichloropropene	51	3		yes
1,1,2-Trichloroethane	53	6		yes
1,2-Dibromoethane	53	7		yes
1,3-Dichloropropane	55	10		yes



**Calibration Certification**  
 EPA Method 8260B  
 (5030 Prep.)



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

Sample Name:	CONCAL		EPA 8260 (-20 to +20%)
Compound	Amount Found	Percent Diff	Pass
Tetrachloroethene	55	11	yes
Dibromochloromethane	54	8	yes
Chlorobenzene	58	15	yes
Ethylbenzene	CCC 52	4	yes
1,1,1,2-Tetrachloroethane	53	5	yes
m,p-Xylene	115	15	yes
o-Xylene	57	13	yes
Styrene	54	7	yes
Bromoform	51	1	yes
Isopropylbenzene	54	8	yes
1,1,2,2-Tetrachloroethane	58	16	yes
1,2,3-Trichloropropane	52	5	yes
n-propylbenzene	55	11	yes
Bromobenzene	55	9	yes
1,3,5-Trimethylbenzene	53	5	yes
2-Chlorotoluene	56	12	yes
4-Chlorotoluene	54	8	yes
tert-Butylbenzene	53	5	yes
1,2,4-Trimethylbenzene	53	6	yes
sec-Butylbenzene	54	8	yes
p-Isopropyltoluene	51	2	yes
1,3-Dichlorobenzene	54	8	yes
1,4-Dichlorobenzene	53	5	yes
n-Butylbenzene	55	9	yes
1,2-Dichlorobenzene	54	8	yes
1,2-Dibromo-3-chloropropane	52	5	yes
1,2,4-Trichlorobenzene	49	-3	yes
Hexachlorobutadiene	46	-9	yes
Naphthalene	49	-2	yes
1,2,3-Trichlorobenzene	49	-1	yes
<b>Surrogates</b>	<b>Spiked</b>	<b>QC Limits(% Rec.)</b>	<b>SUMMATION</b>
DBFM	50 ng	50-150	100
1,2-DCA-d4	50 ng	50-150	79
Toluene - d8	50 ng	50-150	105
1,4-BFB	50 ng	50-150	101

CCC compounds do not pass the 8260B criteria  
 All compounds PASS the average % Diff. Criteria **CALIBRATION VERIFIED**  
 56 compounds PASS the 20% criteria



**Calibration** **ification**  
 EPA Method 8260B  
 ( 5030 Prep.)



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

**Sample Name:** CONCAL  
**Analysis Date:** 16 Aug 2001  
**Analysis Time:** 8:36 am  
**Dilution Factor:** 1

<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	CCC	EPA 8260
			(-20 to +20%) <u>Pass</u>	(-20 to +20%) <u>Pass</u>
Dichlorodifluoromethane	47	-7		yes
Chloromethane	41	-18		yes
Vinyl Chloride	CCC 44	-13	yes	yes
Bromomethane	50	0		yes
Chloroethane	58	16		yes
Trichlorofluoromethane	48	-4		yes
1,1-Dichloroethene	CCC 48	-5	yes	yes
Methylene Chloride	54	8		yes
Methyl-t-butylether	46	-9		yes
trans-1,2-Dichloroethene	53	6		yes
1,1-Dichloroethane	51	2		yes
2,2-Dichloropropane	52	4		yes
cis-1,2-Dichloroethene	54	8		yes
Chloroform	CCC 57	13	yes	yes
Bromochloromethane	54	9		yes
1,1,1-Trichloroethane	47	-5		yes
1,1-Dichloropropene	50	-1		yes
Carbon Tetrachloride	46	-9		yes
1,2-Dichloroethane	43	-13		yes
Benzene	56	13		yes
Trichloroethene	51	3		yes
1,2-Dichloropropane	CCC 55	11	yes	yes
Bromodichloromethane	53	7		yes
Dibromomethane	52	4		yes
cis-1,3-Dichloropropene	52	5		yes
Toluene	CCC 56	11	yes	yes
trans-1,3-Dichloropropene	50	0		yes
1,1,2-Trichloroethane	53	6		yes
1,2-Dibromoethane	55	10		yes
1,3-Dichloropropane	51	2		yes



# Calibration Certification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

EPA 8260  
(-20 to +20%)

Sample Name:	CONCAL			EPA 8260
Compound	Amount Found	Percent Diff		(-20 to +20%)
				Pass
Tetrachloroethene	54	7		yes
Dibromochloromethane	51	2		yes
Chlorobenzene	54	8		yes
Ethylbenzene	CCC 49	-3	yes	yes
1,1,1,2-Tetrachloroethane	50	-1		yes
m,p-Xylene	108	8		yes
o-Xylene	53	6		yes
Styrene	51	1		yes
Bromoform	49	-1		yes
Isopropylbenzene	52	4		yes
1,1,2,2-Tetrachloroethane	61	22		no
1,2,3-Trichloropropane	54	9		yes
n-propylbenzene	55	10		yes
Bromobenzene	56	12		yes
1,3,5-Trimethylbenzene	48	-4		yes
2-Chlorotoluene	55	10		yes
4-Chlorotoluene	54	9		yes
tert-Butylbenzene	44	-12		yes
1,2,4-Trimethylbenzene	50	-1		yes
sec-Butylbenzene	44	-12		yes
p-Isopropyltoluene	42	-16		yes
1,3-Dichlorobenzene	54	9		yes
1,4-Dichlorobenzene	54	7		yes
n-Butylbenzene	49	-3		yes
1,2-Dichlorobenzene	53	7		yes
1,2-Dibromo-3-chloropropane	51	1		yes
1,2,4-Trichlorobenzene	43	-13		yes
Hexachlorobutadiene	33	-34		no
Naphthalene	40	-20		no
1,2,3-Trichlorobenzene	40	-21		no
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>		
DBFM	50 ng	50-150	102	
1,2-DCA-d4	50 ng	50-150	79	
Toluene - d8	50 ng	50-150	107	
1,4-BFB	50 ng	50-150	109	

SUMMATION  
CCC compounds PASS the 8260B criteria

CALIBRATION VERIFIED



# Calibration Verification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 17 Aug 2001  
Analysis Time: 8:43 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	47	-5		yes
Chloromethane	48	-5		yes
Vinyl Chloride	CCC 48	-3	yes	yes
Bromomethane	67	34		no
Chloroethane	74	48		no
Trichlorofluoromethane	52	3		yes
1,1-Dichloroethene	CCC 48	-5	yes	yes
Methylene Chloride	55	11		yes
Methyl-t-butylether	51	1		yes
trans-1,2-Dichloroethene	54	7		yes
1,1-Dichloroethane	52	5		yes
2,2-Dichloropropane	53	6		yes
cis-1,2-Dichloroethene	55	10		yes
Chloroform	CCC 57	13	yes	yes
Bromochloromethane	56	12		yes
1,1,1-Trichloroethane	47	-5		yes
1,1-Dichloropropene	51	1		yes
Carbon Tetrachloride	45	-9		yes
1,2-Dichloroethane	46	-9		yes
Benzene	56	12		yes
Trichloroethene	52	3		yes
1,2-Dichloropropane	CCC 55	11	yes	yes
Bromodichloromethane	53	5		yes
Dibromomethane	55	9		yes
cis-1,3-Dichloropropene	52	4		yes
Toluene	CCC 54	9	yes	yes
trans-1,3-Dichloropropene	50	1		yes
1,1,2-Trichloroethane	56	11		yes
1,2-Dibromoethane	56	12		yes
1,3-Dichloropropane	56	13		yes



# Calibration Verification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	CONCAL		EPA 8260 (-20 to +20%)
Compound	Amount Found	Percent Diff	Pass
Tetrachloroethene	55	9	yes
Dibromochloromethane	52	4	yes
Chlorobenzene	54	8	yes
Ethylbenzene	CCC 48	-5	yes
1,1,1,2-Tetrachloroethane	50	0	yes
m,p-Xylene	107	7	yes
o-Xylene	53	5	yes
Styrene	50	-1	yes
Bromoform	52	5	yes
Isopropylbenzene	53	7	yes
1,1,2,2-Tetrachloroethane	71	43	no
1,2,3-Trichloropropane	60	20	no
n-propylbenzene	56	11	yes
Bromobenzene	59	18	yes
1,3,5-Trimethylbenzene	46	-8	yes
2-Chlorotoluene	56	13	yes
4-Chlorotoluene	56	12	yes
tert-Butylbenzene	42	-16	yes
1,2,4-Trimethylbenzene	48	-3	yes
sec-Butylbenzene	41	-18	yes
p-Isopropyltoluene	39	-22	no
1,3-Dichlorobenzene	55	9	yes
1,4-Dichlorobenzene	54	8	yes
n-Butylbenzene	41	-18	yes
1,2-Dichlorobenzene	54	7	yes
1,2-Dibromo-3-chloropropane	50	1	yes
1,2,4-Trichlorobenzene	31	-37	no
Hexachlorobutadiene	27	-47	no
Naphthalene	30	-39	no
1,2,3-Trichlorobenzene	26	-48	no
<b>Surrogates</b>	<b>Spiked</b>	<b>QC Limits(% Rec.)</b>	<b>SUMMATION</b>
DBFM	50 ng	50-150	106
1,2-DCA-d4	50 ng	50-150	82
Toluene - d8	50 ng	50-150	106
1,4-BFB	50 ng	50-150	100

CCC compounds PASS the 8260B criteria

**CALIBRATION VERIFIED**



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 20 Aug 2001  
Analysis Time: 9:25 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	39	-22		no
Chloromethane	40	-20		no
Vinyl Chloride	CCC 33	-35	no	no
Bromomethane	61	22		no
Chloroethane	56	12		yes
Trichlorofluoromethane	43	-15		yes
1,1-Dichloroethene	CCC 47	-5	yes	yes
Methylene Chloride	57	14		yes
Methyl-t-butylether	57	14		yes
trans-1,2-Dichloroethene	53	6		yes
1,1-Dichloroethane	50	1		yes
2,2-Dichloropropane	60	19		yes
cis-1,2-Dichloroethene	55	9		yes
Chloroform	CCC 54	7	yes	yes
Bromochloromethane	57	13		yes
1,1,1-Trichloroethane	46	-8		yes
1,1-Dichloropropene	50	-1		yes
Carbon Tetrachloride	45	-10		yes
1,2-Dichloroethane	46	-8		yes
Benzene	56	11		yes
Trichloroethene	51	1		yes
1,2-Dichloropropane	CCC 56	12	yes	yes
Bromodichloromethane	52	4		yes
Dibromomethane	56	12		yes
cis-1,3-Dichloropropene	54	7		yes
Toluene	CCC 55	10	yes	yes
trans-1,3-Dichloropropene	53	7		yes
1,1,2-Trichloroethane	58	15		yes
1,2-Dibromoethane	58	16		yes
1,3-Dichloropropane	52	4		yes



# Calibration Certification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	CONCAL		EPA 8260 (-20 to +20%)
Compound	Amount Found	Percent Diff	Pass
Tetrachloroethene	50	-1	yes
Dibromochloromethane	51	2	yes
Chlorobenzene	52	5	yes
Ethylbenzene	CCC 46	-7	yes
1,1,1,2-Tetrachloroethane	48	-5	yes
m,p-Xylene	106	6	yes
o-Xylene	52	5	yes
Styrene	51	2	yes
Bromoform	51	2	yes
Isopropylbenzene	51	2	yes
1,1,2,2-Tetrachloroethane	60	20	no
1,2,3-Trichloropropane	55	10	yes
n-propylbenzene	51	2	yes
Bromobenzene	54	7	yes
1,3,5-Trimethylbenzene	49	-2	yes
2-Chlorotoluene	51	1	yes
4-Chlorotoluene	51	2	yes
tert-Butylbenzene	46	-7	yes
1,2,4-Trimethylbenzene	50	-1	yes
sec-Butylbenzene	48	-3	yes
p-Isopropyltoluene	47	-6	yes
1,3-Dichlorobenzene	53	5	yes
1,4-Dichlorobenzene	53	6	yes
n-Butylbenzene	52	4	yes
1,2-Dichlorobenzene	53	6	yes
1,2-Dibromo-3-chloropropane	61	22	no
1,2,4-Trichlorobenzene	54	7	yes
Hexachlorobutadiene	40	-20	yes
Naphthalene	60	20	no
1,2,3-Trichlorobenzene	52	3	yes
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>SUMMATION</u>
DBFM	50 ng	50-150	103
1,2-DCA-d4	50 ng	50-150	81
Toluene - d8	50 ng	50-150	107
1,4-BFB	50 ng	50-150	119

CCC compounds do not pass the 8260B criteria  
 All compounds PASS the average % Diff. Criteria  
 53 compounds PASS the 20% criteria

**CALIBRATION VERIFIED**



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 21 Aug 2001 8:40  
Analysis Time: am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	44	-13		yes
Chloromethane	46	-8		yes
Vinyl Chloride	CCC 45	-10	yes	yes
Bromomethane	54	9		yes
Chloroethane	64	28		no
Trichlorofluoromethane	48	-5		yes
1,1-Dichloroethene	CCC 48	-5	yes	yes
Methylene Chloride	56	12		yes
Methyl-t-butylether	49	-1		yes
trans-1,2-Dichloroethene	55	10		yes
1,1-Dichloroethane	53	6		yes
2,2-Dichloropropane	53	6		yes
cis-1,2-Dichloroethene	57	14		yes
Chloroform	CCC 54	9	yes	yes
Bromochloromethane	54	8		yes
1,1,1-Trichloroethane	49	-3		yes
1,1-Dichloropropene	52	4		yes
Carbon Tetrachloride	47	-6		yes
1,2-Dichloroethane	46	-9		yes
Benzene	58	16		yes
Trichloroethene	54	8		yes
1,2-Dichloropropane	CCC 57	13	yes	yes
Bromodichloromethane	52	3		yes
Dibromomethane	57	14		yes
cis-1,3-Dichloropropene	54	8		yes
Toluene	CCC 56	13	yes	yes
trans-1,3-Dichloropropene	53	6		yes
1,1,2-Trichloroethane	57	13		yes
1,2-Dibromoethane	57	13		yes
1,3-Dichloropropane	52	4		yes



# Calibration

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

### Sample Name:

### CONCAL

EPA 8260  
(-20 to +20%)

<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	<u>Pass</u>
Tetrachloroethene	52	4	yes
Dibromochloromethane	48	-5	yes
Chlorobenzene	54	7	yes
Ethylbenzene	CCC 47	-5	yes
1,1,1,2-Tetrachloroethane	47	-7	yes
m,p-Xylene	105	5	yes
o-Xylene	52	4	yes
Styrene	50	0	yes
Bromoform	47	-7	yes
Isopropylbenzene	54	7	yes
1,1,2,2-Tetrachloroethane	60	19	yes
1,2,3-Trichloropropane	54	8	yes
n-propylbenzene	54	8	yes
Bromobenzene	55	9	yes
1,3,5-Trimethylbenzene	49	-3	yes
2-Chlorotoluene	54	8	yes
4-Chlorotoluene	54	9	yes
tert-Butylbenzene	47	-7	yes
1,2,4-Trimethylbenzene	50	0	yes
sec-Butylbenzene	46	-8	yes
p-Isopropyltoluene	45	-11	yes
1,3-Dichlorobenzene	52	4	yes
1,4-Dichlorobenzene	51	2	yes
n-Butylbenzene	46	-8	yes
1,2-Dichlorobenzene	51	3	yes
1,2-Dibromo-3-chloropropane	47	-5	yes
1,2,4-Trichlorobenzene	39	-22	no
Hexachlorobutadiene	34	-32	no
Naphthalene	37	-26	no
1,2,3-Trichlorobenzene	34	-32	no

<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	
DBFM	50 ng	50-150	103
1,2-DCA-d4	50 ng	50-150	82
Toluene - d8	50 ng	50-150	111
1,4-BFB	50 ng	50-150	116

### SUMMATION

CCC compounds PASS the 8260B criteria

**CALIBRATION VERIFIED**



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

**Sample Name:** CONCAL  
**Analysis Date:** 22 Aug 2001 8:36  
**Analysis Time:** am  
**Dilution Factor:** 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	45	-10		yes
Chloromethane	41	-18		yes
Vinyl Chloride	CCC 41	-18	yes	yes
Bromomethane	47	-7		yes
Chloroethane	51	3		yes
Trichlorofluoromethane	48	-5		yes
1,1-Dichloroethene	CCC 48	-4	yes	yes
Methylene Chloride	58	17		yes
Methyl-t-butylether	50	0		yes
trans-1,2-Dichloroethene	57	13		yes
1,1-Dichloroethane	53	7		yes
2,2-Dichloropropane	50	1		yes
cis-1,2-Dichloroethene	57	14		yes
Chloroform	CCC 53	5	yes	yes
Bromochloromethane	59	18		yes
1,1,1-Trichloroethane	48	-4		yes
1,1-Dichloropropene	52	4		yes
Carbon Tetrachloride	47	-7		yes
1,2-Dichloroethane	48	-5		yes
Benzene	59	17		yes
Trichloroethene	55	11		yes
1,2-Dichloropropane	CCC 58	16	yes	yes
Bromodichloromethane	53	6		yes
Dibromomethane	59	18		yes
cis-1,3-Dichloropropene	57	14		yes
Toluene	CCC 57	14	yes	yes
trans-1,3-Dichloropropene	54	9		yes
1,1,2-Trichloroethane	61	23		no
1,2-Dibromoethane	63	25		no
1,3-Dichloropropane	55	10		yes



**Calibration**  
**EPA Method 8260B**  
 (5030 Prep.)



Client: Uribe & Associates  
 Project: Alameda Point

Matrix: water  
 Units: ug/L

<u>Sample Name:</u>	<u>CONCAL</u>		<u>EPA 8260</u>
<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	<u>(-20 to +20%)</u>
Tetrachloroethene	52	4	yes
Dibromochloromethane	51	2	yes
Chlorobenzene	54	8	yes
Ethylbenzene	CCC 47	-6	yes
1,1,1,2-Tetrachloroethane	49	-2	yes
m,p-Xylene	106	6	yes
o-Xylene	54	8	yes
Styrene	52	3	yes
Bromoform	52	4	yes
Isopropylbenzene	51	1	yes
1,1,2,2-Tetrachloroethane	60	20	yes
1,2,3-Trichloropropane	52	3	yes
n-propylbenzene	50	1	yes
Bromobenzene	52	5	yes
1,3,5-Trimethylbenzene	47	-7	yes
2-Chlorotoluene	50	-1	yes
4-Chlorotoluene	49	-1	yes
tert-Butylbenzene	45	-10	yes
1,2,4-Trimethylbenzene	49	-3	yes
sec-Butylbenzene	46	-8	yes
p-Isopropyltoluene	46	-9	yes
1,3-Dichlorobenzene	52	3	yes
1,4-Dichlorobenzene	52	3	yes
n-Butylbenzene	50	1	yes
1,2-Dichlorobenzene	53	6	yes
1,2-Dibromo-3-chloropropane	57	14	yes
1,2,4-Trichlorobenzene	49	-2	yes
Hexachlorobutadiene	35	-30	no
Naphthalene	53	7	yes
1,2,3-Trichlorobenzene	47	-5	yes

<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>SUMMATION</u>
DBFM	50 ng	50-150	104
1,2-DCA-d4	50 ng	50-150	82
Toluene - d8	50 ng	50-150	110
1,4-BFB	50 ng	50-150	124

CCC compounds PASS the 8260B criteria

**CALIBRATION VERIFIED**



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 23 Aug 2001  
Analysis Time: 8:43 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	44	-11		yes
Chloromethane	44	-11		yes
Vinyl Chloride	CCC 44	-13	yes	yes
Bromomethane	63	26		no
Chloroethane	66	31		no
Trichlorofluoromethane	48	-4		yes
1,1-Dichloroethene	CCC 50	0	yes	yes
Methylene Chloride	58	15		yes
Methyl-t-butylether	48	-4		yes
trans-1,2-Dichloroethene	57	15		yes
1,1-Dichloroethane	55	10		yes
2,2-Dichloropropane	55	10		yes
cis-1,2-Dichloroethene	59	18		yes
Chloroform	CCC 55	10	yes	yes
Bromochloromethane	59	18		yes
1,1,1-Trichloroethane	50	-1		yes
1,1-Dichloropropene	54	8		yes
Carbon Tetrachloride	48	-4		yes
1,2-Dichloroethane	48	-5		yes
Benzene	61	21		no
Trichloroethene	55	10		yes
1,2-Dichloropropane	CCC 58	15	yes	yes
Bromodichloromethane	53	5		yes
Dibromomethane	59	18		yes
cis-1,3-Dichloropropene	55	10		yes
Toluene	CCC 59	18	yes	yes
trans-1,3-Dichloropropene	54	8		yes
1,1,2-Trichloroethane	59	19		yes
1,2-Dibromoethane	59	18		yes
1,3-Dichloropropane	55	10		yes



# Calibration Certification

EPA Method 8260B  
(5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	CONCAL		EPA 8260 (-20 to +20%)
Compound	Amount Found	Percent Diff	Pass
Tetrachloroethene	54	8	yes
Dibromochloromethane	51	1	yes
Chlorobenzene	56	11	yes
Ethylbenzene	CCC 49	-2	yes
1,1,1,2-Tetrachloroethane	50	1	yes
m,p-Xylene	112	12	yes
o-Xylene	56	11	yes
Styrene	52	5	yes
Bromoform	49	-2	yes
Isopropylbenzene	50	0	yes
1,1,2,2-Tetrachloroethane	60	19	yes
1,2,3-Trichloropropane	52	4	yes
n-propylbenzene	52	3	yes
Bromobenzene	52	5	yes
1,3,5-Trimethylbenzene	47	-7	yes
2-Chlorotoluene	52	4	yes
4-Chlorotoluene	50	1	yes
tert-Butylbenzene	43	-14	yes
1,2,4-Trimethylbenzene	49	-3	yes
sec-Butylbenzene	43	-14	yes
p-Isopropyltoluene	42	-16	yes
1,3-Dichlorobenzene	52	4	yes
1,4-Dichlorobenzene	52	3	yes
n-Butylbenzene	47	-6	yes
1,2-Dichlorobenzene	51	3	yes
1,2-Dibromo-3-chloropropane	48	-4	yes
1,2,4-Trichlorobenzene	38	-24	no
Hexachlorobutadiene	28	-44	no
Naphthalene	33	-33	no
1,2,3-Trichlorobenzene	33	-33	no

Surrogates	Spiked	QC Limits(% Rec.)
DBFM	50 ng	50-150
1,2-DCA-d4	50 ng	50-150
Toluene - d8	50 ng	50-150
1,4-BFB	50 ng	50-150

**SUMMATION**  
CCC compounds PASS the 8260B criteria

**CALIBRATION VERIFIED**



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 24 Aug 2001  
Analysis Time: 8:42 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	42	-16		yes
Chloromethane	47	-6		yes
Vinyl Chloride	CCC 46	-9	yes	yes
Bromomethane	55	10		yes
Chloroethane	65	30		no
Trichlorofluoromethane	47	-6		yes
1,1-Dichloroethene	CCC 50	0	yes	yes
Methylene Chloride	60	19		yes
Methyl-t-butylether	53	6		yes
trans-1,2-Dichloroethene	56	12		yes
1,1-Dichloroethane	55	9		yes
2,2-Dichloropropane	54	7		yes
cis-1,2-Dichloroethene	58	16		yes
Chloroform	CCC 55	11	yes	yes
Bromochloromethane	61	22		no
1,1,1-Trichloroethane	49	-2		yes
1,1-Dichloropropene	53	5		yes
Carbon Tetrachloride	48	-5		yes
1,2-Dichloroethane	47	-6		yes
Benzene	60	21		no
Trichloroethene	54	8		yes
1,2-Dichloropropane	CCC 59	18	yes	yes
Bromodichloromethane	52	3		yes
Dibromomethane	57	15		yes
cis-1,3-Dichloropropene	57	14		yes
Toluene	CCC 58	15	yes	yes
trans-1,3-Dichloropropene	56	11		yes
1,1,2-Trichloroethane	59	19		yes
1,2-Dibromoethane	58	16		yes
1,3-Dichloropropane	52	3		yes



# Calibration

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

EPA 8260  
(-20 to +20%)

Sample Name:	CONCAL		EPA 8260
Compound	Amount Found	Percent Diff	Pass
Tetrachloroethene	49	-2	yes
Dibromochloromethane	49	-3	yes
Chlorobenzene	51	2	yes
Ethylbenzene	CCC 45	-10	yes
1,1,1,2-Tetrachloroethane	47	-6	yes
m,p-Xylene	100	-1	yes
o-Xylene	50	-1	yes
Styrene	48	-5	yes
Bromoform	46	-7	yes
Isopropylbenzene	55	10	yes
1,1,2,2-Tetrachloroethane	65	30	no
1,2,3-Trichloropropane	58	16	yes
n-propylbenzene	55	10	yes
Bromobenzene	58	16	yes
1,3,5-Trimethylbenzene	50	1	yes
2-Chlorotoluene	56	13	yes
4-Chlorotoluene	55	9	yes
tert-Butylbenzene	46	-8	yes
1,2,4-Trimethylbenzene	52	3	yes
sec-Butylbenzene	46	-8	yes
p-Isopropyltoluene	45	-10	yes
1,3-Dichlorobenzene	55	9	yes
1,4-Dichlorobenzene	52	4	yes
n-Butylbenzene	48	-4	yes
1,2-Dichlorobenzene	55	10	yes
1,2-Dibromo-3-chloropropane	54	8	yes
1,2,4-Trichlorobenzene	41	-19	yes
Hexachlorobutadiene	27	-46	no
Naphthalene	37	-26	no
1,2,3-Trichlorobenzene	36	-28	no
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>SUMMATION</u>
DBFM	50 ng	50-150	103
1,2-DCA-d4	50 ng	50-150	80
Toluene - d8	50 ng	50-150	109
1,4-BFB	50 ng	50-150	118

CCC compounds PASS the 8260B criteria

**CALIBRATION VERIFIED**



Calibration  
EPA Method 8260B  
( 5030 Prep.)



Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 27 Aug 2001  
Analysis Time: 9:07 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	43	-14		yes
Chloromethane	37	-26		no
Vinyl Chloride	CCC 40	-21	no	no
Bromomethane	64	29		no
Chloroethane	64	27		no
Trichlorofluoromethane	46	-7		yes
1,1-Dichloroethene	CCC 52	4	yes	yes
Methylene Chloride	61	22		no
Methyl-t-butylether	49	-2		yes
trans-1,2-Dichloroethene	59	17		yes
1,1-Dichloroethane	56	11		yes
2,2-Dichloropropane	53	5		yes
cis-1,2-Dichloroethene	61	23		no
Chloroform	CCC 57	13	yes	yes
Bromochloromethane	66	31		no
1,1,1-Trichloroethane	50	1		yes
1,1-Dichloropropene	54	8		yes
Carbon Tetrachloride	49	-2		yes
1,2-Dichloroethane	49	-2		yes
Benzene	62	24		no
Trichloroethene	57	14		yes
1,2-Dichloropropane	CCC 61	21	no	no
Bromodichloromethane	55	10		yes
Dibromomethane	62	24		no
cis-1,3-Dichloropropene	60	20		no
Toluene	CCC 71	41	no	no
trans-1,3-Dichloropropene	60	19		yes
1,1,2-Trichloroethane	67	33		no
1,2-Dibromoethane	67	35		no
1,3-Dichloropropane	52	5		yes



# Calibration Verification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name:	CONCAL		EPA 8260
Compound	Amount Found	Percent Diff	(-20 to +20%) <u>Pass</u>
Tetrachloroethene	53	5	yes
Dibromochloromethane	50	0	yes
Chlorobenzene	53	6	yes
Ethylbenzene	CCC 46	-9	yes
1,1,1,2-Tetrachloroethane	48	-4	yes
m,p-Xylene	106	6	yes
o-Xylene	53	6	yes
Styrene	50	0	yes
Bromoform	49	-2	yes
Isopropylbenzene	49	-1	yes
1,1,2,2-Tetrachloroethane	59	18	yes
1,2,3-Trichloropropane	50	0	yes
n-propylbenzene	49	-2	yes
Bromobenzene	53	6	yes
1,3,5-Trimethylbenzene	47	-6	yes
2-Chlorotoluene	49	-2	yes
4-Chlorotoluene	49	-3	yes
tert-Butylbenzene	49	-1	yes
1,2,4-Trimethylbenzene	48	-4	yes
sec-Butylbenzene	49	-3	yes
p-Isopropyltoluene	47	-7	yes
1,3-Dichlorobenzene	52	3	yes
1,4-Dichlorobenzene	51	2	yes
n-Butylbenzene	50	0	yes
1,2-Dichlorobenzene	52	3	yes
1,2-Dibromo-3-chloropropane	57	15	yes
1,2,4-Trichlorobenzene	52	4	yes
Hexachlorobutadiene	50	-1	yes
Naphthalene	56	13	yes
1,2,3-Trichlorobenzene	52	4	yes
<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	<u>SUMMATION</u>
DBFM	50 ng	50-150	105
1,2-DCA-d4	50 ng	50-150	80
Toluene - d8	50 ng	50-150	111
1,4-BFB	50 ng	50-150	132
			CCC compounds do not pass the 8260B criteria
			All compounds PASS the average % Diff. Criteria
			46 compounds PASS the 20% criteria

**CALIBRATION VERIFIED**



## Calibration/Verification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda PointMatrix: water  
Units: ug/LSample Name: CONCAL  
Analysis Date: 28 Aug 2001  
Analysis Time: 8:51 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	44	-12		yes
Chloromethane	44	-13		yes
Vinyl Chloride	CCC 43	-14	yes	yes
Bromomethane	67	33		no
Chloroethane	71	41		no
Trichlorofluoromethane	49	-2		yes
1,1-Dichloroethene	CCC 55	9	yes	yes
Methylene Chloride	63	26		no
Methyl-t-butylether	63	26		no
trans-1,2-Dichloroethene	61	22		no
1,1-Dichloroethane	58	15		yes
2,2-Dichloropropane	65	30		no
cis-1,2-Dichloroethene	62	23		no
Chloroform	CCC 111	123	no	no
Bromochloromethane	66	31		no
1,1,1-Trichloroethane	51	2		yes
1,1-Dichloropropene	56	12		yes
Carbon Tetrachloride	51	2		yes
1,2-Dichloroethane	51	2		yes
Benzene	65	29		no
Trichloroethene	57	14		yes
1,2-Dichloropropane	CCC 63	25	no	no
Bromodichloromethane	74	48		no
Dibromomethane	62	24		no
cis-1,3-Dichloropropene	61	22		no
Toluene	CCC 65	29	no	no
trans-1,3-Dichloropropene	60	19		yes
1,1,2-Trichloroethane	66	33		no
1,2-Dibromoethane	67	34		no
1,3-Dichloropropane	54	9		yes



# Calibration Certification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

EPA 8260  
(-20 to +20%)

Sample Name:	CONCAL			EPA 8260
Compound	Amount Found	Percent Diff		Pass
Tetrachloroethene	52	4		yes
Dibromochloromethane	58	16		yes
Chlorobenzene	56	12		yes
Ethylbenzene	CCC 48	-5	yes	yes
1,1,1,2-Tetrachloroethane	50	1		yes
m,p-Xylene	110	10		yes
o-Xylene	54	9		yes
Styrene	51	2		yes
Bromoform	56	11		yes
Isopropylbenzene	49	-1		yes
1,1,2,2-Tetrachloroethane	62	24		no
1,2,3-Trichloropropane	53	6		yes
n-propylbenzene	51	1		yes
Bromobenzene	54	7		yes
1,3,5-Trimethylbenzene	46	-8		yes
2-Chlorotoluene	50	0		yes
4-Chlorotoluene	50	0		yes
tert-Butylbenzene	38	-24		no
1,2,4-Trimethylbenzene	47	-5		yes
sec-Butylbenzene	42	-17		yes
p-Isopropyltoluene	41	-18		yes
1,3-Dichlorobenzene	51	2		yes
1,4-Dichlorobenzene	53	5		yes
n-Butylbenzene	46	-8		yes
1,2-Dichlorobenzene	56	12		yes
1,2-Dibromo-3-chloropropane	55	9		yes
1,2,4-Trichlorobenzene	40	-20		no
Hexachlorobutadiene	31	-38		no
Naphthalene	39	-23		no
1,2,3-Trichlorobenzene	36	-28		no

Surrogates	Spiked	QC Limits(% Rec.)	
DBFM	50 ng	50-150	108
1,2-DCA-d4	50 ng	50-150	82
Toluene - d8	50 ng	50-150	113
1,4-BFB	50 ng	50-150	140

### SUMMATION

CCC compounds do not pass the 8260B criteria  
 All compounds PASS the average % Diff. Criteria  
 37 compounds PASS the 20% criteria

**CALIBRATION VERIFIED**



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 29 Aug 2001  
Analysis Time: 8:31 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	42	-17		yes
Chloromethane	44	-12		yes
Vinyl Chloride	CCC 43	-14	yes	yes
Bromomethane	63	27		no
Chloroethane	67	33		no
Trichlorofluoromethane	46	-8		yes
1,1-Dichloroethene	CCC 53	5	yes	yes
Methylene Chloride	66	31		no
Methyl-t-butylether	54	7		yes
trans-1,2-Dichloroethene	60	20		yes
1,1-Dichloroethane	58	17		yes
2,2-Dichloropropane	59	18		yes
cis-1,2-Dichloroethene	62	25		no
Chloroform	CCC 105	110	no	no
Bromochloromethane	65	29		no
1,1,1-Trichloroethane	53	6		yes
1,1-Dichloropropene	55	10		yes
Carbon Tetrachloride	49	-1		yes
1,2-Dichloroethane	51	2		yes
Benzene	65	29		no
Trichloroethene	65	30		no
1,2-Dichloropropane	CCC 62	24	no	no
Bromodichloromethane	72	43		no
Dibromomethane	63	27		no
cis-1,3-Dichloropropene	59	18		yes
Toluene	CCC 63	26	no	no
trans-1,3-Dichloropropene	57	15		yes
1,1,2-Trichloroethane	63	25		no
1,2-Dibromoethane	61	22		no
1,3-Dichloropropane	54	7		yes



# Calibration Verification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

## Sample Name:

## CONCAL

EPA 8260  
(-20 to +20%)

<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	<u>Pass</u>
Tetrachloroethene	53	6	yes
Dibromochloromethane	55	9	yes
Chlorobenzene	54	9	yes
Ethylbenzene	CCC 48	-5	yes
1,1,1,2-Tetrachloroethane	48	-4	yes
m,p-Xylene	107	7	yes
o-Xylene	52	4	yes
Styrene	49	-2	yes
Bromoform	50	-1	yes
Isopropylbenzene	48	-4	yes
1,1,2,2-Tetrachloroethane	60	21	no
1,2,3-Trichloropropane	53	6	yes
n-propylbenzene	50	0	yes
Bromobenzene	54	7	yes
1,3,5-Trimethylbenzene	44	-12	yes
2-Chlorotoluene	50	0	yes
4-Chlorotoluene	49	-2	yes
tert-Butylbenzene	38	-23	no
1,2,4-Trimethylbenzene	46	-9	yes
sec-Butylbenzene	39	-22	no
p-Isopropyltoluene	39	-22	no
1,3-Dichlorobenzene	51	2	yes
1,4-Dichlorobenzene	49	-1	yes
n-Butylbenzene	43	-14	yes
1,2-Dichlorobenzene	52	3	yes
1,2-Dibromo-3-chloropropane	45	-10	yes
1,2,4-Trichlorobenzene	34	-33	no
Hexachlorobutadiene	26	-49	no
Naphthalene	29	-42	no
1,2,3-Trichlorobenzene	28	-44	no

<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	
DBFM	50 ng	50-150	103
1,2-DCA-d4	50 ng	50-150	80
Toluene - d8	50 ng	50-150	110
1,4-BFB	50 ng	50-150	130

## SUMMATION

CCC compounds do not pass the 8260B criteria  
 All compounds PASS the average % Diff. Criteria  
 38 compounds PASS the 20% criteria

**CALIBRATION VERIFIED**



# Calibration / Certification

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 30 Aug 2001  
Analysis Time: 9:32 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	39	-22		no
Chloromethane	42	-15		yes
Vinyl Chloride	CCC 41	-18	yes	yes
Bromomethane	72	43		no
Chloroethane	67	33		no
Trichlorofluoromethane	46	-9		yes
1,1-Dichloroethene	CCC 56	11	yes	yes
Methylene Chloride	65	30		no
Methyl-t-butylether	63	25		no
trans-1,2-Dichloroethene	63	27		no
1,1-Dichloroethane	61	22		no
2,2-Dichloropropane	66	33		no
cis-1,2-Dichloroethene	65	29		no
Chloroform	CCC 104	108	no	no
Bromochloromethane	64	29		no
1,1,1-Trichloroethane	55	9		yes
1,1-Dichloropropene	58	15		yes
Carbon Tetrachloride	51	3		yes
1,2-Dichloroethane	53	5		yes
Benzene	67	34		no
Trichloroethene	61	22		no
1,2-Dichloropropane	CCC 63	26	no	no
Bromodichloromethane	73	46		no
Dibromomethane	62	23		no
cis-1,3-Dichloropropene	60	20		yes
Toluene	CCC 65	30	no	no
trans-1,3-Dichloropropene	57	14		yes
1,1,2-Trichloroethane	63	26		no
1,2-Dibromoethane	64	27		no
1,3-Dichloropropane	54	7		yes



# Calibration Certification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

EPA 8260  
(-20 to +20%)

Sample Name:	CONCAL			EPA 8260
Compound	Amount Found	Percent Diff		(-20 to +20%)
				Pass
Tetrachloroethene	53	7		yes
Dibromochloromethane	54	9		yes
Chlorobenzene	54	8		yes
Ethylbenzene	CCC 48	-5	yes	yes
1,1,1,2-Tetrachloroethane	51	1		yes
m,p-Xylene	111	11		yes
o-Xylene	54	9		yes
Styrene	50	0		yes
Bromoform	51	1		yes
Isopropylbenzene	51	2		yes
1,1,2,2-Tetrachloroethane	61	21		no
1,2,3-Trichloropropane	53	6		yes
n-propylbenzene	50	1		yes
Bromobenzene	53	5		yes
1,3,5-Trimethylbenzene	48	-3		yes
2-Chlorotoluene	53	5		yes
4-Chlorotoluene	50	0		yes
tert-Butylbenzene	48	-4		yes
1,2,4-Trimethylbenzene	49	-2		yes
sec-Butylbenzene	49	-2		yes
p-Isopropyltoluene	45	-9		yes
1,3-Dichlorobenzene	50	-1		yes
1,4-Dichlorobenzene	51	2		yes
n-Butylbenzene	49	-2		yes
1,2-Dichlorobenzene	51	2		yes
1,2-Dibromo-3-chloropropane	59	17		yes
1,2,4-Trichlorobenzene	47	-6		yes
Hexachlorobutadiene	43	-14		yes
Naphthalene	50	0		yes
1,2,3-Trichlorobenzene	48	-4		yes

Surrogates	Spiked	QC Limits(% Rec.)	
DBFM	50 ng	50-150	105
1,2-DCA-d4	50 ng	50-150	82
Toluene - d8	50 ng	50-150	112
1,4-BFB	50 ng	50-150	137

**SUMMATION**  
 CCC compounds do not pass the 8260B criteria  
 All compounds PASS the average % Diff. Criteria  
 40 compounds PASS the 20% criteria

**CALIBRATION VERIFIED**



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 31 Aug 2001  
Analysis Time: 8:47 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) Pass	(-20 to +20%) Pass
Dichlorodifluoromethane	44	-12		yes
Chloromethane	47	-6		yes
Vinyl Chloride	CCC 45	-9	yes	yes
Bromomethane	66	32		no
Chloroethane	71	43		no
Trichlorofluoromethane	50	0		yes
1,1-Dichloroethene	CCC 56	13	yes	yes
Methylene Chloride	69	38		no
Methyl-t-butylether	57	15		yes
trans-1,2-Dichloroethene	66	32		no
1,1-Dichloroethane	62	24		no
2,2-Dichloropropane	62	23		no
cis-1,2-Dichloroethene	65	30		no
Chloroform	CCC 98	95	no	no
Bromochloromethane	71	41		no
1,1,1-Trichloroethane	56	11		yes
1,1-Dichloropropene	58	16		yes
Carbon Tetrachloride	53	6		yes
1,2-Dichloroethane	54	9		yes
Benzene	68	37		no
Trichloroethene	69	38		no
1,2-Dichloropropane	CCC 65	31	no	no
Bromodichloromethane	74	47		no
Dibromomethane	68	35		no
cis-1,3-Dichloropropene	59	19		yes
Toluene	CCC 66	32	no	no
trans-1,3-Dichloropropene	59	18		yes
1,1,2-Trichloroethane	70	41		no
1,2-Dibromoethane	68	36		no
1,3-Dichloropropane	53	6		yes



# Calibration Verification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

### Sample Name:

### CONCAL

EPA 8260  
(-20 to +20%)

<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	<u>Pass</u>
Tetrachloroethene	53	6	yes
Dibromochloromethane	54	8	yes
Chlorobenzene	54	7	yes
Ethylbenzene	CCC 47	-6	yes
1,1,1,2-Tetrachloroethane	49	-1	yes
m,p-Xylene	107	7	yes
o-Xylene	52	5	yes
Styrene	49	-2	yes
Bromoform	53	5	yes
Isopropylbenzene	48	-4	yes
1,1,2,2-Tetrachloroethane	63	26	no
1,2,3-Trichloropropane	54	8	yes
n-propylbenzene	48	-4	yes
Bromobenzene	52	4	yes
1,3,5-Trimethylbenzene	45	-11	yes
2-Chlorotoluene	49	-1	yes
4-Chlorotoluene	47	-6	yes
tert-Butylbenzene	45	-9	yes
1,2,4-Trimethylbenzene	46	-8	yes
sec-Butylbenzene	46	-7	yes
p-Isopropyltoluene	43	-14	yes
1,3-Dichlorobenzene	50	-1	yes
1,4-Dichlorobenzene	48	-4	yes
n-Butylbenzene	45	-11	yes
1,2-Dichlorobenzene	50	0	yes
1,2-Dibromo-3-chloropropane	55	10	yes
1,2,4-Trichlorobenzene	42	-17	yes
Hexachlorobutadiene	42	-17	yes
Naphthalene	40	-20	yes
1,2,3-Trichlorobenzene	42	-16	yes

<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>
DBFM	50 ng	50-150
1,2-DCA-d4	50 ng	50-150
Toluene - d8	50 ng	50-150
1,4-BFB	50 ng	50-150

### SUMMATION

CCC compounds do not pass the 8260B criteria  
 All compounds PASS the average % Diff. Criteria **CALIBRATION VERIFIED**  
 42 compounds PASS the 20% criteria



# Calibration Certification

EPA Method 8260B

( 5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

Sample Name: **CONCAL**  
Analysis Date: 4 Sep 2001  
Analysis Time: 9:57 am  
Dilution Factor: 1

Compound	Amount Found	Percent Diff	CCC	EPA 8260
			(-20 to +20%) <u>Pass</u>	(-20 to +20%) <u>Pass</u>
Dichlorodifluoromethane	36	-28		no
Chloromethane	35	-30		no
Vinyl Chloride	CCC 34	-32	no	no
Bromomethane	52	4		yes
Chloroethane	62	23		no
Trichlorofluoromethane	42	-17		yes
1,1-Dichloroethene	CCC 36	-28	no	no
Methylene Chloride	43	-15		yes
Methyl-t-butylether	45	-11		yes
trans-1,2-Dichloroethene	41	-17		yes
1,1-Dichloroethane	37	-25		no
2,2-Dichloropropane	42	-17		yes
cis-1,2-Dichloroethene	42	-15		yes
Chloroform	CCC 61	21	no	no
Bromochloromethane	42	-17		yes
1,1,1-Trichloroethane	35	-30		no
1,1-Dichloropropene	36	-28		no
Carbon Tetrachloride	33	-35		no
1,2-Dichloroethane	32	-36		no
Benzene	43	-15		yes
Trichloroethene	40	-21		no
1,2-Dichloropropane	CCC 39	-21	no	no
Bromodichloromethane	44	-12		yes
Dibromomethane	40	-19		yes
cis-1,3-Dichloropropene	37	-26		no
Toluene	CCC 42	-17	yes	yes
trans-1,3-Dichloropropene	36	-29		no
1,1,2-Trichloroethane	42	-16		yes
1,2-Dibromoethane	42	-16		yes
1,3-Dichloropropane	40	-21		no



# Calibration Verification

EPA Method 8260B

(5030 Prep.)

Client: Uribe & Associates  
Project: Alameda Point

Matrix: water  
Units: ug/L

## Sample Name:

## CONCAL

EPA 8260  
(-20 to +20%)

<u>Compound</u>	<u>Amount Found</u>	<u>Percent Diff</u>	<u>Pass</u>
Tetrachloroethene	43	-14	yes
Dibromochloromethane	42	-17	yes
Chlorobenzene	42	-16	yes
Ethylbenzene	CCC 36	-27	no
1,1,1,2-Tetrachloroethane	38	-24	no
m,p-Xylene	83	-17	yes
o-Xylene	41	-17	yes
Styrene	37	-26	no
Bromoform	37	-25	no
Isopropylbenzene	40	-19	yes
1,1,2,2-Tetrachloroethane	45	-10	yes
1,2,3-Trichloropropane	40	-21	no
n-propylbenzene	41	-17	yes
Bromobenzene	44	-12	yes
1,3,5-Trimethylbenzene	38	-25	no
2-Chlorotoluene	42	-16	yes
4-Chlorotoluene	41	-17	yes
tert-Butylbenzene	36	-28	no
1,2,4-Trimethylbenzene	39	-22	no
sec-Butylbenzene	37	-26	no
p-Isopropyltoluene	36	-28	no
1,3-Dichlorobenzene	42	-15	yes
1,4-Dichlorobenzene	42	-16	yes
n-Butylbenzene	39	-22	no
1,2-Dichlorobenzene	42	-17	yes
1,2-Dibromo-3-chloropropane	43	-14	yes
1,2,4-Trichlorobenzene	37	-26	no
Hexachlorobutadiene	31	-38	no
Naphthalene	35	-30	no
1,2,3-Trichlorobenzene	36	-29	no

<u>Surrogates</u>	<u>Spiked</u>	<u>QC Limits(% Rec.)</u>	
DBFM	50 ng	50-150	91
1,2-DCA-d4	50 ng	50-150	60
Toluene - d8	50 ng	50-150	92
1,4-BFB	50 ng	50-150	116

## SUMMATION

CCC compounds do not pass the 8260B criteria  
 All compounds PASS the average % Diff. Criteria **CALIBRATION VERIFIED**  
 29 compounds PASS the 20% criteria

## Footnote Summary

<u>Footnote</u>	<u>Definition</u>
E.Q.L. nd J	Estimated Quantitation Limit Not detected above the E.Q.L. The concentration reported is between the Method Detection Limit and the E.Q.L.
D	Concentration reported from a secondary dilution; E.Q.L.s adjusted accordingly.
B E	Analyte found in the associated blank. Analyte amount exceeds calibration range. Amount quantitated by extrapolation.
***	MS/MSD, LCS/LCSD recovery is outside QC range; no corrective action taken.
M S	Surrogate recovery outside QC range due to matrix interference. Because of necessary sample dilution, value was outside QC limits.
& #	Gasoline range organics not identified as gasoline. Diesel range organics not identified as diesel.
**	This compound has been screened by EPA method 8020. Any positive results should be confirmed by a second analysis.
Y	The chromatographic pattern does not match the standard.
Z	The chromatographic pattern does not resemble a TPH fuel pattern.





**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 862-8300 FAX (916) 862-8307

DATE 7/27/01	CHAIN OF CUSTODY NUMBER No 4792
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME 001/2 DUS ALAMEDA PT	PROJECT MANAGER JOHN SWANSON
PROJECT NUMBER 60069 385 B04003	TELEPHONE NUMBER
PROJECT LOCATION ALAMEDA POINT	DESTINATION LABORATORY MOBILE LAB
SAMPLER(S) MARK CRUEKSHANK	ADDRESS
SAMPLER SIGNATURE(S) [Signature]	CITY STATE ZIP
SITE CONTACT/ TELEPHONE NUMBER GARY THOMAS	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES										REMARKS (N:RAB, COMPOSITE, ETC.)
VOCs										

2PO1 W-8  
2PO1 W-11  
2PO1 W-13  
2PO1 W-50

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPE OF CONTAINERS	TURN AROUND TIME																REMARKS (N:RAB, COMPOSITE, ETC.)
385-516-001 ✓	7/27	0850	WATER	2-4oz VOCs		X															VOCs are impres.
385-516-002 ✓	"	0910	"	"		X															" "
385-516-003 ✓	"	0950	"	"		X															" "
385-516-004 ✓	"	1230	"	"		X															" "
24																					

SHIPPED VIA: AIRBILL #: \_\_\_\_\_ SPECIAL INSTRUCTIONS:

RELINQUISHED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME
[Signature]	Gary Thomas / U&A	7/27/01	1400				
				RECEIVED AT LAB BY (PRINT AND SIGN):			







**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 852-8300 FAX (916) 852-8307

DATE <b>7/30/01</b>	CHAIN OF CUSTODY NUMBER <b>No 4680</b>
LABORATORY NUMBER	PAGE <b>1</b> OF <b>1</b>

PROJECT NAME <b>Alameda Pt. La Ta GAP</b>	PROJECT MANAGER <b>John Swanson</b>
PROJECT NUMBER <b>G0069-385804003</b>	TELEPHONE NUMBER
PROJECT LOCATION <b>Alameda Pt.</b>	DESTINATION LABORATORY <b>HP Mobile</b>
SAMPLER(S) <b>Kirk S. Martin/Laura Genin</b>	ADDRESS
SAMPLER SIGNATURE(S) <i>[Signature]</i>	CITY STATE ZIP
SITE CONTACT TELEPHONE NUMBER	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES									
<i>VOC</i> <i>TPH-P</i> <i>TPH-C</i>									

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPE OF CONTAINERS	TURN AROUND TIME						REMARKS (GRAB, COMPOSITE, ETC.)	
23 ✓ 385-505-065	7/30	0830	H <sub>2</sub> O	2 VOAS	Reg Test	X						VOAs are unpres.
23 ✓ 385-505-066	7/30	0910	H <sub>2</sub> O	2 VOAS		X						" "
23 ✓ 385-505-067	7/30	0930	H <sub>2</sub> O	2 VOAS		X						" "
21 ✓ 385-505-059	7/30	1020	H <sub>2</sub> O	2 VOAS		X						" "
21 ✓ 385-505-060	7/30	1100	H <sub>2</sub> O	2 VOAS		X						" "
21 ✓ 385-505-061	7/30	1140	H <sub>2</sub> O	2 VOAS		X						" "
28 ✓ 385-505-076	7/30	1310	H <sub>2</sub> O	2 VOAs/amber			X	X				
22 ✓ 385-505-062	7/30	1450	H <sub>2</sub> O	2 VOAS	Reg TAT	X						VOAs are unpres.
11 ✓ 385-505-063	7/30	1520	H <sub>2</sub> O	2 VOAS	Reg TAT	X						" "
22 ✓ 385-505-064	7/30	1530	H <sub>2</sub> O	2 VOAS	Reg Test	X						" "

SHIPPED VIA:	AIRBILL #:	SPECIAL INSTRUCTIONS:
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RELINQUISHED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME
<i>[Signature]</i>	Kirk S. Martin/Oribe	7/30	1630				
				RECEIVED AT LAB BY (PRINT AND SIGN):			

DISTRIBUTION: WHITE = LABORATORY YELLOW = PROJECT MANAGER PINK = FILE







**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 852-8300 FAX (916) 852-8307

DATE 7/31/01	CHAIN OF CUSTODY NUMBER No 4645
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME 01112 DGS ALAMEDA	PROJECT MANAGER JOHN SWANSON
PROJECT NUMBER 60069 385 8040103	TELEPHONE NUMBER
PROJECT LOCATION ALAMEDA BAY	DESTINATION LABORATORY MOBILE LAB
SAMPLER(S) MARK CRUCKSMANIK	ADDRESS
SAMPLER SIGNATURE(S) [Signature]	CITY STATE ZIP
SITE CONTACT/ TELEPHONE NUMBER GARY THOMAS	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES											
SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO./TYPE OF CONTAINERS	TURN AROUND TIME					REMARKS (GRAB, COMPOSITE, ETC.)	
385-S04-029 ✓	7/31	0950	WATER	2-40ml VBS		X					VOAs are highest.
385-S04-030 ✓	7/31	1140	"	"		X					" "
385-S04-031 ✓	"	1150	"	"		X					" "
385-S04-032 ✓	"	1225	"	"		X					" "
385-S04-033 ✓	"	1340	"	"		X					" "
385-S04-034 ✓	"	1350	"	"		X					" "
385-S04-035 ✓	"	1410	"	"		X					" "
385-S04-036 ✓	"	1505	"	"		X					" "
385-S04-037 ✓	"	1645	"	"		X					" "

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SHIPPED VIA:				SPECIAL INSTRUCTIONS:			
AIRBILL #:							
RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
[Signature]	Gary Thomas/ U&A	8/1/01	0910	[Signature]	Jeff Nelson/ HP Labs	8/1/01	9:29
				RECEIVED AT LAB BY (PRINT AND SIGN):			

DISTRIBUTION: WHITE = LABORATORY    YELLOW = PROJECT MANAGER    PINK = FILE







**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 852-8308 FAX (916) 852-8387

DATE <b>8/2/01</b>	CHAIN OF CUSTODY NUMBER <b>No 4646</b>
LABORATORY NUMBER	PAGE <b>1</b> OF <b>1</b>

PROJECT NAME <b>0112 DGS ALAMEDA</b>	PROJECT MANAGER <b>JOHN SWANSON</b>
PROJECT NUMBER <b>60069 385 B040103</b>	TELEPHONE NUMBER
PROJECT LOCATION <b>ALAMEDA POINT</b>	DESTINATION LABORATORY <b>MOBILE LAB</b>
SAMPLER(S) <b>MARK CRICKSHANK</b>	ADDRESS
SAMPLER SIGNATURE(S) <b>MTC</b>	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER <b>GARY THOMAS</b>	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES										REMARKS (i.e. LAB, COMPOSITE, ETC.)
/										

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SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO./TYPE OF CONTAINERS	TURN AROUND TIME																REMARKS (i.e. LAB, COMPOSITE, ETC.)
385-S04-046 ✓	8/2/01	0800	WATER	2-40ml VOAs	24-H. TAT	X															VOAs are unpres.
385-S04-047 ✓	"	0845	"	"		X															" "
385-S04-048 ✓	"	0920	"	"		X															" "
385-S04-049 ✓	"	1020	"	"		X															" "
385-S04-050 ✓	"	1130	"	"		X															" "
385-S04-916 ✓	"	0420	"	"		X															" "

SHIPPED VIA:				SPECIAL INSTRUCTIONS:			
AIRBILL #:							
RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
<i>Gary Thomas</i>	Gary Thomas/USEA	8/2/01	1400				
				RECEIVED AT LAB BY (PRINT AND SIGN):			

DISTRIBUTION: WHITE = LABORATORY    YELLOW = PROJECT MANAGER    PINK = FILE













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**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 852-8300 FAX (916) 852-8387

DATE <b>8/7</b>	CHAIN OF CUSTODY NUMBER No <b>4952</b>
LABORATORY NUMBER	PAGE <b>1</b> OF <b>1</b>

PROJECT NAME <b>Alameda Point Data</b>	PROJECT MANAGER <b>John Swanson</b>
PROJECT NUMBER <b>G0064395 B040103</b>	TELEPHONE NUMBER
PROJECT LOCATION <b>Alameda Point</b>	DESTINATION LABORATORY <b>HP Mobile Lab</b>
SAMPLER(S) <b>Laura Genia</b>	ADDRESS
SAMPLER SIGNATURE(S) <i>Laura G.</i>	CITY STATE ZIP
SITE CONTACT/ TELEPHONE NUMBER	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES										REMARKS (GRAB, COMPOSITE, ETC.)
TPHP	TPHE	VOC								
X	X	X								VOAs un-pres
X	X	X								VOAs are un-pres
X	X	X								
X	X	X								
X	X	X								
X	X	X								
X	X	X								
X	X	X								
X	X	X								VOAs are un-pres
X	X	X								
X	X	X								

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO./TYPE OF CONTAINERS	TURN AROUND TIME
385-521-030	8/7	1010	Water	4VOAs/1Amb	
385-521-033	8/7	1130	Water	4VOAs/1Amb	
385-504057	8/7	1105	Soil	Gencore/1stern	
385-514-083	8/7	1415	Water	4VOAs/1Amb	
385-514-081	8/7	1445	Water	4VOAs/1Amb	
385-506-057	8/7	0855	Water	4VOAs/1Amb	
385-506-058	8/7	0950	Water	4VOAs/1Amb	
385-514-912	8/7	1600	Water	2VOAs/1Amb	
385-509-034	8/7	1400	Water	4VOAs/1Amb	
385-504-141	8/7	1345	Water	4VOAs/1Amb	
385-513-017	8/7	1540	Water	4VOAs/1Amb	

SHIPPED VIA: AIRBILL #: \_\_\_\_\_

SPECIAL INSTRUCTIONS:

RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
<i>Doug [Signature]</i>	Geny Thomas/UEA	8/7/01	1730

RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
<i>[Signature]</i>	Jeff Nelson/HP Labs	8/7/01	17:30

DISTRIBUTION: WHITE = LABORATORY YELLOW = PROJECT MANAGER PINK = FILE

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**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
 Rancho Cordova, CA 95670  
 (916) 862-8300 FAX (916) 862-8307

DATE <b>8/8</b>	CHAIN OF CUSTODY NUMBER <b>No 4961</b>
LABORATORY NUMBER	PAGE <b>1</b> OF <b>1</b>

PROJECT NAME <b>Alameda Point</b>	PROJECT MANAGER <b>John Swanson</b>
PROJECT NUMBER <b>G0069395B040103</b>	TELEPHONE NUMBER
PROJECT LOCATION <b>Alameda Point</b>	DESTINATION LABORATORY <b>Mobile</b>
SAMPLER(S) <b>Laura Griffin</b>	ADDRESS
SAMPLER SIGNATURE(S) <i>[Signature]</i>	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES										REMARKS (#LAB, COMPOSITE, ETC.)
VOC	TP4P	TPHE								
X	X	X								VOCs unprocessed
X	X	X								
X	X	X								
X	X	X								
X	X	X								

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO./TYPE OF CONTAINERS	TURN AROUND TIME
385-513-013 <sup>014</sup>	8/8	830	Water	4 VOCs 1 Amb	24H-TAT
385-523-015	8/8	0940			
385-505-124	8/8	1100			
385-505-121	8/8	1220			
385-514-055	8/8	1500			
385-514-052	8/8	1410			

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10.1V  
02.5V  
04.5V

SHIPPED VIA:				SPECIAL INSTRUCTIONS:			
AIRBILL #:							
RELINQUISHED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME
<i>[Signature]</i>	Gary Thomas/UEA	8/8/01	1730				
				RECEIVED AT LAB BY (PRINT AND SIGN):			





**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10678 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 862-8300 FAX (916) 862-8307

DATE <b>8/9/01</b>	CHAIN OF CUSTODY NUMBER No <b>4962</b>
LABORATORY NUMBER	PAGE <b>1</b> OF <b>1</b>

PROJECT NAME <b>OU12 DGS ALAMEDA</b>	PROJECT MANAGER <b>JOHN SWANSON</b>
PROJECT NUMBER <b>G0069385B090103</b>	TELEPHONE NUMBER
PROJECT LOCATION <b>ALAMEDA POINT</b>	DESTINATION LABORATORY <b>MOBILE LAB</b>
SAMPLER(S) <b>MARK CRUICKSHANK</b>	ADDRESS
SAMPLER SIGNATURE(S) <b>MC</b>	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER <b>GARY THOMAS</b>	LABORATORY TELEPHONE NUMBER

**REQUESTED ANALYSES**

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO./TYPE OF CONTAINERS	TURN AROUND TIME	REQUESTED ANALYSES										REMARKS (LAB, COMPOSITE, ETC.)								
						1	2	3	4	5	6	7	8	9	10		11	12						
385-521-046	8/9	0840	WATER	2-40ml VOCs		X																		
385-521-047	8/9	0935	"	"		X																		
385-503-087	8/9	1015	"	"		X																		
385-503-088	8/9	1055	"	"		X																		
385-521-048	8/9	1305	"	"		X																		
385-521-049	8/9	1325	"	"		X																		
385-521-050	8/9	1410	"	"		X																		
385-509-043	8/9	1505	"	"		X																		
385-509-044	8/9	1525	"	"		X																		
385-503-908	8/9	1540	"	"		X																		

VOCs

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-15  
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-5  
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212  
W-9  
212  
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PO7  
-7  
207  
W-15  
2-3

SHIPPED VIA:				SPECIAL INSTRUCTIONS:			
AIRBILL #:							
RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
<b>MC</b>	<b>J &amp; A</b>	<b>8/9/01</b>	<b>1550</b>				
				RECEIVED AT LAB BY (PRINT AND SIGN):			



**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10870 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 852-8300 FAX (916) 852-8307

DATE 8/9/01	CHAIN OF CUSTODY NUMBER No 4962
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME 0012 DGS ALAMEDA	PROJECT MANAGER JOHN SWANSON
PROJECT NUMBER G00693858090103	TELEPHONE NUMBER
PROJECT LOCATION ALAMEDA POINT	DESTINATION LABORATORY MOBILE LAB
SAMPLER(S) MARK CRUICKSHANK	ADDRESS
SAMPLER SIGNATURE(S) MC	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER GARY THOMAS	LABORATORY TELEPHONE NUMBER

**REQUESTED ANALYSES**

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPER OF CONTAINERS	TURN AROUND TIME	REMARKS (GRAB, COMPOSITE, ETC.)
✓ 385-521-046	8/9	0840	WATER	2-40ml VOLS	X	
✓ 385-521-047	8/9	0935	"	"	X	
✓ 385-503-087	8/9	1015	"	"	X	
✓ 385-503-088	8/9	1055	"	"	X	
✓ 385-521-048	8/9	1305	"	"	X	
✓ 385-521-049	8/9	1325	"	"	X	
✓ 385-521-050	8/9	1410	"	"	X	
✓ 385-509-043	8/9	1505	"	"	X	
✓ 385-509-044	8/9	1525	"	"	X	
✓ 385-503-908	8/9	1540	"	"	X	

*VOCs*

**REQUESTED ANALYSES**

REMARKS (GRAB, COMPOSITE, ETC.)

SHIPPED VIA:

AIRBILL #: \_\_\_\_\_

SPECIAL INSTRUCTIONS:

RELINQUISHED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME
MC	J & A	8/9/01	1550				
				RECEIVED AT LAB BY (PRINT AND SIGN):			

DISTRIBUTION: WHITE = LABORATORY YELLOW = PROJECT MANAGER PINK = FILE











**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 852-8300 FAX (916) 852-8387

DATE 8/14/01	CHAIN OF CUSTODY NUMBER No 4963
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME 0112 DGS ALAMEDA PT	PROJECT MANAGER JOHN SWANSON
PROJECT NUMBER G-069385B040103	TELEPHONE NUMBER
PROJECT LOCATION ALAMEDA POINT	DESTINATION LABORATORY HP MOBILE LAB
SAMPLER(S) MARK CRICKSHANK	ADDRESS
SAMPLER SIGNATURE(S) [Signature]	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER GARY THOMAS	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES									
VOCs									

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPER OF CONTAINERS	TURN AROUND TIME										REMARKS (i.e. RAD, COMPOSITE, ETC.)
385-504-190 ✓	8/14	0850	WATER	2-40ml VOCs	24 Hr. TAT	X									VOCs are Unpres.
385-504-191 ✓	8/14	1010	"	"		X									
385-504-192 ✓	8/14	1140	"	"		X									
385-504-197 ✓	8/14	1320	"	"		X									
385-504-198 ✓	8/14	1410	"	" ✓		X									
385-504-199 ✓	8/14	1450	"	" ✓		X									
385-504-200b ✓	8/14	1525	"	" ✓		X									
<del>385-504-200c</del>	<del>8/14</del>	<del>1525</del>	<del>"</del>	<del>"</del>		<del>X</del>									
385-504-920 ✓	8/14	1630	"	" ✓		X									

SHIPPED VIA:	AIRBILL #:	SPECIAL INSTRUCTIONS:
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RELINQUISHED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME
[Signature]	Gary Thomas / U&A	8/14/01	1750				

DISTRIBUTION: WHITE = LABORATORY YELLOW = PROJECT MANAGER PINK = FILE

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**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 852-8300 FAX (916) 852-8387

DATE 8/16/01	CHAIN OF CUSTODY NUMBER No 4977
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME 0112 DGS ALAMEDA	PROJECT MANAGER JOHN SWANSON
PROJECT NUMBER G0069385B040103	TELEPHONE NUMBER
PROJECT LOCATION ALAMEDA POINT	DESTINATION LABORATORY HP MOBILE LAB
SAMPLER(S) MARK CRICKSHANK	ADDRESS
SAMPLER SIGNATURE(S) MC	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER GARY THOMAS	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES										REMARKS (S:SUB, COMPOSITE, ETC.)		
SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPE OF CONTAINERS	TURN AROUND TIME	VOCs	TPH-P	TPH-E				
385-S04-205 ✓	8/16	0830	WATER	4-40ml VOLS 1-1L AMBER		X	X	X				VOCs are impure
385-S04-206 ✓	8/16	0925	"	"		X	X	X				" " "
<del>385-S21-045</del>	<del>8/16</del>	<del>1025</del>	<del>"</del>	<del>4 40ml VOLS</del>		<del>X</del>	<del>X</del>					
385-S21-046 <sup>056 SK</sup>	8/16	1040	"	"		X	X					" " "
385-S21-047 <sup>057 SK</sup>	8/16	1110	"	"		X	X					" " "
385-S21-048 <sup>058 SK</sup>	8/16	1145	"	"		X	X					" " "
385-S21-049 <sup>059 SK</sup>	8/16	1400	"	"		X	X					" " "
385-S21-050 <sup>060 SK</sup>	8/16	1440	"	"		X	X					" " "

SHIPPED VIA: Federal Express AIRBILL #: \_\_\_\_\_

SPECIAL INSTRUCTIONS:

RELINQUISHED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME
	Gary Thomas / U&A	8/16/01	1800				

RECEIVED AT LAB BY (PRINT AND SIGN):





**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 852-8300 FAX (916) 852-8307

DATE 8/17/01	CHAIN OF CUSTODY NUMBER No 4978
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME QUILZ DGS ALAMEDA	PROJECT MANAGER JOHN SWANSON
PROJECT NUMBER G0069385B040103	TELEPHONE NUMBER
PROJECT LOCATION ALAMEDA POINT	DESTINATION LABORATORY MOBILE LAB
SAMPLER(S) MARK CRUICKSHANK	ADDRESS
SAMPLER SIGNATURE(S) [Signature]	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER GARY THOMAS	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES									
VOCS									

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPER OF CONTAINERS	TURN AROUND TIME	REMARKS (GRAB, COMPOSITE, ETC.)			
385-509-049 ✓	8/17	0800	WATER	2-40ml VOCS	X				
385-509-050 ✓	8/17	0855	"	"	X				
385-509-051 ✓	8/17	0930	"	"	X				
385-509-052 ✓	8/17	1030	"	"	X				
385-509-053 ✓	8/17	1310	"	"	X				
Not Run per Client's Request: P									

SHIPPED VIA:	AIRBILL #:	SPECIAL INSTRUCTIONS:
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RELINQUISHED BY (SIGNATURE) [Signature]	PRINT NAME/COMPANY Gary Thomas/USEA	DATE 8/17/01	TIME 1400	RECEIVED BY (SIGNATURE) [Signature]	PRINT NAME/COMPANY Jeff Nelson/HPLab	DATE 8/17/01	TIME 1343
RECEIVED AT LAB BY (PRINT AND SIGN):							

DISTRIBUTION: WHITE = LABORATORY    YELLOW = PROJECT MANAGER    PINK = FILE

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**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 852-8300 FAX (916) 852-8397

DATE 8/17/01	CHAIN OF CUSTODY NUMBER No 4984
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME Alameda Point	PROJECT MANAGER John Swanson
PROJECT NUMBER G0069385 B040103	TELEPHONE NUMBER
PROJECT LOCATION Alameda Point	DESTINATION LABORATORY Mobile Lab
SAMPLER(S) Laura Genin	ADDRESS
SAMPLER SIGNATURE(S) <i>Laura Genin</i>	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES										REMARKS (GRAB, COMPOSITE, ETC.)
VOC	TPHP									
X										VOCs Unpreserved
X										
X										
X	X									
X	X									
X	X									
X	X									
X	X									
X	X									

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SHIPPED VIA: 1				SPECIAL INSTRUCTIONS:			
AIRBILL #:							
RELINQUISHED BY (SIGNATURE) <i>Denny Thomas</i>	PRINT NAME/COMPANY Denny Thomas/UEA	DATE 8/17/01	TIME 1840	RECEIVED BY (SIGNATURE) <i>Jeff Nelson</i>	PRINT NAME/COMPANY Jeff Nelson/HP Labs	DATE 8/17/01	TIME 16:40
				RECEIVED AT LAB BY (PRINT AND SIGN):			

DISTRIBUTION: WHITE = LABORATORY YELLOW = PROJECT MANAGER PINK = FILE



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DATE 8/20/01	CHAIN OF CUSTODY NUMBER No 4987
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME OU 12 DGS ALAMEDA	PROJECT MANAGER JOHN SWANSON
PROJECT NUMBER G0069385B040103	TELEPHONE NUMBER
PROJECT LOCATION ALAMEDA POINT	DESTINATION LABORATORY MOBILE LAB
SAMPLER(S) MARK CRUICKSHANK	ADDRESS
SAMPLER SIGNATURE(S) MC	CITY STATE ZIP
SITE CONTACT/ TELEPHONE NUMBER GARY THOMAS	LABORATORY TELEPHONE NUMBER

**REQUESTED ANALYSES**

VOCs									
------	--	--	--	--	--	--	--	--	--

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPE OF CONTAINERS	TURN AROUND TIME						REMARKS (CRAB, COMPOSITE, ETC.)	
385-S04-207 ✓	8/20	0920	WATER	2-40ml VbAs		X						VOCs are complex
385-S04-208 ✓	8/20	1020	"	"		X						" "
385-S04-212 ✓	8/20	1200	"	"		X						" "
385-S04-213 ✓	8/20	1320	"	"		X						" "
385-S04-214 ✓	8/20	1410	"	"		X						" "
385-S04-215 ✓	8/20	1455	"	"		X						" "
385-S04-216 ✓	8/20	1555	"	"		X						" "

SHIPPED VIA:				AIRBILL #:				SPECIAL INSTRUCTIONS:			
RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME				
<i>Gary Thomas</i>	Gary Thomas/UT&A	8/20/01	1840								
								RECEIVED AT LAB BY (PRINT AND SIGN):			

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DATE 8/21/01	CHAIN OF CUSTODY NUMBER No 4985
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME Alameda Point Data Gap	PROJECT MANAGER John Swanson
PROJECT NUMBER G0069385B040103	TELEPHONE NUMBER 910-853-4500
PROJECT LOCATION Alameda Point	DESTINATION LABORATORY Mobile Lab
SAMPLER(S) Laura Genin	ADDRESS
SAMPLER SIGNATURE(S) <i>LG</i>	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER 510-749-0226	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES									
/ / / / / / / / / / / /									

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SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO./TYPE OF CONTAINERS	TURN AROUND TIME									REMARKS (GRAB, COMPOSITE, ETC.)
385-504-222 ✓	8/21	0900	Water	2 VOA's	24-hr Refr. IAT	X								VOA's unpreserved.
385-504-223 ✓		0930	↓	↓	↓	X								
385-504-224 ✓		1000	↓	↓	↓	X								
385-504-225 ✓		1045	↓	↓	↓	X								
385-504-226 ✓		1115	↓	↓	↓	X								
385-504-227 ✓		1145	↓	↓	↓	X								
385-504-228 ✓		1315	↓	↓	↓	X								

SHIPPED VIA:	AIRBILL #:	SPECIAL INSTRUCTIONS:
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RELINQUISHED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME
<i>John Swanson</i>	Garz Thomas/USA	8/22/01	1430	<i>Jeff Nelson</i>	HP Labs	8/22/01	14:30
				RECEIVED AT LAB BY (PRINT AND SIGN):			



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**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
 Rancho Cordova, CA 95870  
 (916) 862-8300 FAX (916) 862-8307

DATE 8/21/01	CHAIN OF CUSTODY NUMBER No 4986
LABORATORY NUMBER	PAGE _____ OF _____

PROJECT NAME Alameda Pt. D65	PROJECT MANAGER John Swanson
PROJECT NUMBER C0069-3853040103	TELEPHONE NUMBER
PROJECT LOCATION Alameda Pt.	DESTINATION LABORATORY Mobile LAB
SAMPLER(S) Kirk S. Martin	ADDRESS
SAMPLER SIGNATURE(S) <i>[Signature]</i>	CITY STATE ZIP
SITE CONTACT TELEPHONE NUMBER	LABORATORY TELEPHONE NUMBER

**REQUESTED ANALYSES**

VOC	REQUESTED ANALYSES										REMARKS (GRAB, COMPOSITE, ETC.)

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPER OF CONTAINERS	TURN AROUND TIME													
385-504-214 <sup>232</sup> ✓	8/21	1000	Water	2 Vials	24 Hours	X												
385-504-216 <sup>233</sup> ✓		1020				X												
385-504-216 <sup>234</sup> ✓		1035				X												
385-504-217 ✓		1115				X												
385-504-218 ✓		1300				X												
385-504-219 ✓		1400				X												
385-504-220 ✓		1435				X												
385-504-221 ✓		1500				X												

SHIPPED VIA:				AIRBILL #:				SPECIAL INSTRUCTIONS:			
RELINQUISHED BY (SIGNATURE) <i>[Signature]</i>	PRINT NAME/COMPANY Gary Thomas/USA	DATE 8/21/01	TIME 1430	RECEIVED BY (SIGNATURE) <i>[Signature]</i>	PRINT NAME/COMPANY Jeff Nelson/HP Labs	DATE 8/22/01	TIME 1449				
RECEIVED AT LAB BY (PRINT AND SIGN):											

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DATE 8/22/01	CHAIN OF CUSTODY NUMBER No 4761
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME Alameda Point Data	PROJECT MANAGER John Swanson
PROJECT NUMBER G0069385 B040103	TELEPHONE NUMBER
PROJECT LOCATION Alameda Point	DESTINATION LABORATORY Mobile Lab
SAMPLER(S) Laura Gerin	ADDRESS
SAMPLER SIGNATURE(S) <i>[Signature]</i>	CITY STATE ZIP
SITE CONTACT/ TELEPHONE NUMBER	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES										REMARKS (H/RAB, COMPOSITE, ETC.)
NO	DATE	TIME	MATRIX TYPE	NO/TYPE OF CONTAINERS	TURN AROUND TIME	YOC	TPHP			
385-504-229	8/22	1000	Water	4 VOA'S	24 Hour	X	X			VOA'S JAP 5/2/00
385-504-230	8/22	1100	H <sub>2</sub> O	4 VOAs		X	X			
385-510-007	8/22	1330				X	X			
385-510-008	8/22	1400				X	X			
385-510-009	8/22	1420				X	X			
385-510-010	8/22	1430				X	X			
385-506-062	8/22	1530	Y	2 VOAs		X				
<del>385-510-902</del>	<del>8/22</del>	<del>1600</del>		<del>4 VOAs</del>		<del>X</del>	<del>X</del>			
385-504-921	8/22	1600	"	4 VOAs		X	X			

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SHIPPED VIA: AIRBILL #: \_\_\_\_\_

SPECIAL INSTRUCTIONS:

RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
<i>[Signature]</i>	Gary Thomas / UTA	8/22	1840	<i>[Signature]</i>	Jeff Nelson / HP Labs	8/23/01	09:55

RECEIVED AT LAB BY (PRINT AND SIGN):



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DATE 8/23/01	CHAIN OF CUSTODY NUMBER No 4973
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME Alameda Pt. DGS	PROJECT MANAGER John Swanson
PROJECT NUMBER G0069-385040103	TELEPHONE NUMBER
PROJECT LOCATION Alameda Pt. <del>Site</del>	DESTINATION LABORATORY Mobile
SAMPLER(S) Kirk S. Martin / Larra Gerwin	ADDRESS
SAMPLER SIGNATURE(S) [Signatures]	CITY STATE ZIP
SITE CONTACT TELEPHONE NUMBER	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES										REMARKS (GRAB, COMPOSITE, ETC.)
VOC	TPH-P									
X	X									VOAS H4 preserved
X	X									↓
X	X									↓
X	X									Non Preserved
X	X									ACI Preserved
X	X									↓
X	X									↓
X	X									↓

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPE OF CONTAINERS	TURN AROUND TIME
385-504-231 ✓	8/23	0745	H <sub>2</sub> O	2 VOAS	24 Hour
385-503-096 ✓		0900	H <sub>2</sub> O	3 VOAS	
385-503-097 ✓		0945	H <sub>2</sub> O	3 VOAS	
385-503-098 ✓		1045		2 VOAS	
385-505-183 ✓		1400			
385-505-184 ✓		1445			
385-505-185 ✓		1530	↓	↓	↓
385-503-099 ✓		1145	↓	↓	↓

SHIPPED VIA:				SPECIAL INSTRUCTIONS:			
AIRBILL #:							
RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
[Signature]	Kirk S. Martin / Vike	8/23	1600	[Signature]	Jeff Nelson / HPLabs	8/23/01	17:38
				RECEIVED AT LAB BY (PRINT AND SIGN):			

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Rancho Cordova, CA 95670  
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DATE 8/23/01	CHAIN OF CUSTODY NO. No 4972
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME 0112 DGS ALAMEDA	PROJECT MANAGER JOHN SWANSON
PROJECT NUMBER 10069 385 B040103	TELEPHONE NUMBER
PROJECT LOCATION ALAMEDA POINT	DESTINATION LABORATORY MOBICE LAB
SAMPLER(S) MARK CRICKSHANK	ADDRESS
SAMPLER SIGNATURE(S) MC	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER GARY THOMAS	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES									
/									

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16

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPE OF CONTAINERS	TURN AROUND TIME						REMARKS (CRAB, COMPOSITE, ETC.)	
385-S05-180 ✓	8/23	1345	WATER	2-40ml VOAs		X						VOAs are pres. 4/HCL
385-S05-181 ✓	8/23	1405	"	"		X						
385-S05-182 ✓	8/23	1430	"	"		X						
385-S05-186 ✓	8/23	1510	"	"		X						
385-S05-187 ✓	8/23	1520	"	1-40ml VOAs		X						
385-S05-188 ✓	8/23	1540	"	2-40ml VOAs		X						

SHIPPED VIA:				SPECIAL INSTRUCTIONS:			
AIRBILL #:							
RELINQUISHED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME
<i>Gary Thomas</i>	Gary Thomas/USA	8/23/01	1740	<i>Jeff Nelson</i>	Jeff Nelson/HP Labs	8/23/01	17:38
				RECEIVED AT LAB BY (PRINT AND SIGN):			







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**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 852-8300 FAX (916) 852-8307

DATE 8/24/01	CHAIN OF CUSTODY NUMBER No 4852
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME OU-1/2 Data Grab Sample at Alameda Point	PROJECT MANAGER John Swanson
PROJECT NUMBER 60069-385-8040103	TELEPHONE NUMBER (916) 853-4500
PROJECT LOCATION Alameda Point	DESTINATION LABORATORY HP Mobile Lab
SAMPLER(S) Rick Erdman, Mark Crivichinski	ADDRESS
SAMPLER SIGNATURE(S)	CITY STATE ZIP
SITE CONTACT/ TELEPHONE NUMBER (510) 749-0234	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES											
/ / / / / / / / / / / /											

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO./TYPE OF CONTAINERS	TURN AROUND TIME	VOCs												REMARKS (GRAB, COMPOSITE, ETC.)						
						1	2	3	4	5	6	7	8	9	10	11	12							
385-511-125A ✓	8/24/01	0830	Water	3-40 ml VOAs	24-Hr	X																		HCL Preserved
385-511-126A ✓	8/24/01	0920	Water	" " "		X																		" "
385-511-127A ✓	8/24/01	1025	Water	" " "		X																		" "
385-511-128A ✓	"	1235	"	" " "		X																		
385-511-129A ✓	"	1330	"	" " "		X																		
385-511-130A ✓	"	1445	"	" " "		X																		

SHIPPED VIA:	AIRBILL #:	SPECIAL INSTRUCTIONS:
--------------	------------	-----------------------

RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
<i>Dany</i>	Dany / USA	8/24	1700	<i>Jeff Nelson</i>	HP Labs	8/24/01	16:50
				RECEIVED AT LAB BY (PRINT AND SIGN):			

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Rancho Cordova, CA 95670  
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DATE 8/29/01	CHAIN OF CUSTODY NUMBER No 4861
LABORATORY NUMBER	PAGE 1 OF 1

PROJECT NAME OU 12 DGS Alameda Point	PROJECT MANAGER John Swanson
PROJECT NUMBER 600693853040103	TELEPHONE NUMBER 916-853-4500
PROJECT LOCATION Alameda Point	DESTINATION LABORATORY HP Mobile Lab
SAMPLER(S) Brad Shelton	ADDRESS
SAMPLER SIGNATURE(S) BS	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER Lara Thomas 510-749-0234	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES										REMARKS (IRAB, COMPOSITE, ETC.)	
VOC											
385-521-104A ✓	8/29	0950	Water	2-40ml	VOAs						HCL Preserved
385-521-105A ✓	8/29	0945	"	"	"						"
385-521-106A ✓	"	1140	"	"	"						"
385-521-101A ✓	"	1400	"	"	"						"
385-521-102A ✓	"	1445	"	"	"						one HCL preserved
385-521-103A ✓	"	1550	"	"	"						HCL Preserved
385-521-907 ✓	"	1640	"	3-40ml	VOAs						

SHIPPED VIA: FE				AIRBILL #:				SPECIAL INSTRUCTIONS:			
RELINQUISHED BY (SIGNATURE) Brad Shelton	PRINT NAME/ COMPANY Brad Shelton/TTEMI	DATE 8/29	TIME 1715	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
								RECEIVED AT LAB BY (PRINT AND SIGN):			

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DATE 8/29/01	CHAIN OF CUSTODY NUMBER No 4869
LABORATORY NUMBER	PAGE _____ OF _____

PROJECT NAME 00-1/2 Data Gap Sampling At Alameda Point	PROJECT MANAGER John Swanson
PROJECT NUMBER G0069-385 B040103	TELEPHONE NUMBER (916) 853-4500
PROJECT LOCATION Alameda Point	DESTINATION LABORATORY HP Mobile Lab
SAMPLER(S) Gary Thomas Berkley Lee	ADDRESS
SAMPLER SIGNATURE(S) Gary Thomas Berkley Lee	CITY STATE ZIP
SITE CONTACT/TELEPHONE NUMBER Gary Thomas (510) 749-0234	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES										REMARKS (N:RAD, COMPOSITE, ETC.)
VOCs										

P38  
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SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPER OF CONTAINERS	TURN AROUND TIME																REMARKS (N:RAD, COMPOSITE, ETC.)
385-504-234	8/29	0915	Water	2-40ml VOAs	24-Hr Reg. TAT	X															VOAs are unph. es.
385-504-235	"	0955	"	"		X															" "
385-504-236	"	1040	"	"		X															" "
385-504-237	"	1115	"	"		X															" "
385-504-238	"	1135	"	"		X															
385-504-239	"	1305	"	"		X															

SHIPPED VIA:				SPECIAL INSTRUCTIONS:			
AIRBILL #:							
RELINQUISHED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/COMPANY	DATE	TIME
<i>Gary Thomas</i>	Gary Thomas/UEA	8/29					
				RECEIVED AT LAB BY (PRINT AND SIGN):			



**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
Rancho Cordova, CA 95670  
(916) 862-8300 FAX (916) 862-8307

DATE: <u>8/30/01</u>	CHAIN OF CUSTODY NUMBER: <u>No 4870</u>
LABORATORY NUMBER	PAGE <u>    </u> OF <u>    </u>

PROJECT NAME <u>Alameda Pt. DGS</u>	PROJECT MANAGER <u>John Swanson</u>
PROJECT NUMBER <u>60069-3853040103</u>	TELEPHONE NUMBER
PROJECT LOCATION <u>Alameda Point</u>	DESTINATION LABORATORY <u>Mobile</u>
SAMPLER(S) <u>Kirks, Martin</u>	ADDRESS
SAMPLER SIGNATURE(S) <u>[Signature]</u>	CITY STATE ZIP
SITE CONTACT/ TELEPHONE NUMBER	LABORATORY TELEPHONE NUMBER

REQUESTED ANALYSES									
/ / / / / / / / / / / /									

VOC

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX TYPE	NO/TYPE OF CONTAINERS	TURN AROUND TIME	REMARKS (GRAB, COMPOSITE, ETC.)														
385-504-240	8/30	0815	Water	1 UOa	24 hr	X														
385-505-197-197	8/30	1020	H <sub>2</sub> O	2 UOas		X														
385-505-192-198	8/30	0845	H <sub>2</sub> O	2 UOas		X														
385-505-193-199	8/30	1105	H <sub>2</sub> O	2 UOas		X														
385-509-058	8/30	1230	H <sub>2</sub> O	2 UOas	↓	X														

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SHIPPED VIA:				SPECIAL INSTRUCTIONS:			
AIRBILL #:							
RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
<u>[Signature]</u>	<u>Kirk S. Martin/ Uvibe</u>	<u>8/30</u>	<u>1345</u>				
				RECEIVED AT LAB BY (PRINT AND SIGN):			









**Tetra Tech EM Inc.**

**CHAIN OF CUSTODY RECORD**

10670 White Rock Road, Suite 100  
 Rancho Cordova, CA 95670  
 (916) 852-8300 FAX (916) 852-8387

DATE <i>9/4/01</i>	CHAIN OF CUSTODY NUMBER No 4991
LABORATORY NUMBER	PAGE <u>1</u> OF <u>1</u>

PROJECT NAME <i>Alameda Pfc DGS</i>	PROJECT MANAGER <i>John Swanson</i>
PROJECT NUMBER <i>G-0069-3853040103</i>	TELEPHONE NUMBER
PROJECT LOCATION <i>Alameda</i>	DESTINATION LABORATORY <i>Mobile</i>
SAMPLER(S) <i>Kirk's Martin/Larrazberin</i>	ADDRESS
SAMPLER SIGNATURE(S)	CITY STATE ZIP
SITE CONTACT/ TELEPHONE NUMBER	LABORATORY TELEPHONE NUMBER

**REQUESTED ANALYSES**

<i>VOC</i>	REQUESTED ANALYSES										REMARKS (GRAB, COMPOSITE, ETC.)	
	X											<i>VOAs HCL Pres</i>
X												<i>VOAs HCL Pres</i>

SHIPPED VIA: \_\_\_\_\_ AIRBILL #: \_\_\_\_\_

SPECIAL INSTRUCTIONS: \_\_\_\_\_

RELINQUISHED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	PRINT NAME/ COMPANY	DATE	TIME
<i>Gary Thomas</i>	<i>Gary Thomas/USEA</i>	<i>9/4/01</i>	<i>1300</i>	<i>[Signature]</i>	<i>Jeff Nelson/HQ Labs</i>	<i>9/4/01</i>	<i>12:59</i>
RECEIVED AT LAB BY (PRINT AND SIGN):							

**APPENDIX G**  
**STORM SEWER DATA AND DATA QUALITY OBJECTIVE EVALUATION**  
**(58 Pages)**

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## ABBREVIATIONS, ACRONYMS, AND SYMBOLS

ASTM	American Society of Testing and Measurements
AWQC	Ambient Water Quality Criteria
COC	Chemical of Concern
D	Diesel
DCE	Dichloroethene
DGS	Data Gap Sampling
DP	Direct Push
DQO	Data Quality Objective
ERV	Ecological Reference Value
FSP	Field Sampling Plan
IR	Installation Restoration
J	Estimated
M	Motor oil
MCL	Maximum Contaminant Level
mg/L	Micrograms per Liter
ns	No standard
OU	Operable Unit
QAPP	Quality Assurance Project Plan
Qual	Qualifier
RWQCB	Regional Water Quality Control Board
TCE	Trichloroethene
TPH	Total Petroleum Hydrocarbon
TtEMI	Tetra Tech EM Incorporated
TTPH	Total Total Petroleum Hydrocarbon
USCS	Unified Soils Classification System
VC	Vinyl chloride
VE	Vacuum extraction
VOC	Volatile Organic Compound

## 1.0 Storm Sewer Pathway Evaluation

This section of the DGS Report describes the results of the Storm Sewer Pathway Evaluation. During historical operations at Alameda Point, industrial wastes were disposed of in the storm sewer system. This system has two pathways with respect to contaminant migration that were addressed as part of the data gap sampling activities at Alameda Point:

- (1) Preferential flow of contaminated groundwater from installation restoration (IR) sites to surface water through the storm sewer bedding material.
- (2) Preferential flow of contaminated groundwater from IR sites to surface water from infiltration of groundwater through cracks or breaks in the storm sewer pipes.

Procedures for the investigation of storm sewer exposure pathways were presented in the Final Field Sampling Plan (FSP) under Appendix B-4 (Section B-4.1; Tetra Tech EM [TtEMI] 2001); and the data quality objectives (DQOs) for the storm sewer exposure pathways were presented in the Final Quality Assurance Project Plan (QAPP) in Appendix A (Table A-8, TtEMI 2001).

### 1.1 Preferential Flow Of Contaminated Groundwater From IR Sites To Surface Water Through The Storm Sewer Bedding Material

As specified in the DQOs (Table A-8, TtEMI 2001) for this first pathway, the following decision questions were asked:

- 1a) Is bedding material with higher hydraulic conductivity than surrounding artificial fill material present beneath the storm-sewer lines?
- 1b) If bedding material is present, do groundwater chemical concentrations intersecting the bedding material exceed maximum contaminant level (MCL)/ecological reference value (ERV), providing a preferential flow path for contaminated groundwater from IR sites to surface water at concentrations that pose unacceptable risk to the environment?

To address DQO question 1a) geotechnical data were generated from samples of soil collected from the storm sewer line bedding materials using vacuum extraction (VE) methods, and compared to similar data generated for offset soil samples collected about 10 feet away from the same storm sewer line using direct push (DP) sampling technology; specifically a comparison of permeability and hydraulic conductivity.

The following DQO decision rules (Table A-8, TtEMI 2001) guided the evaluation:

- If geotechnical samples indicated the absence of bedding material (hydraulic conductivity of the bedding material is comparable to that of the surrounding soils), then the pathway was not evaluated further.

- If the geotechnical samples indicated the existence of bedding material, then chemical concentrations in groundwater plumes intersecting the bedding material were compared to their MCL/ERVs.

To address DQO question 1b) groundwater data were collected to evaluate the possibility that the storm sewer bedding materials have been acting as a preferential pathway for chemicals of concern (COC) by comparing volatile organic compound (VOC) and total petroleum hydrocarbon (TPH) data from groundwater samples collected in the storm sewer bedding materials to chemical iso-concentration contour maps for the same constituents in groundwater in the vicinity of the sampled location. The following DQO decision rules were used for this part of the investigation:

- If groundwater chemical concentrations intersecting the bedding material did not exceed MCL/ERVs, then the bedding material pathway was not evaluated further.
- If groundwater chemical concentrations intersecting the bedding material exceeded MCL/ERVs, then bedding material groundwater samples were collected from step-outs along the same sewer line track.
- If the predicted discharge concentrations or the discharge point bedding material concentrations did not exceed the MCL/ERVs, then the pathway was not evaluated further. Otherwise, the RI/FS process will develop and analyze remedial alternatives for addressing this pathway.

The use of an MCL or ERV for comparing groundwater analyses to the groundwater plume maps was determined by recognition of whether or not the groundwater at a particular location was a potential drinking water source. At Operable Units (OU) –2A (including IR Sites 9, 13, and 23) and –2B (including IR Sites 4 and 21), these areas are recognized as overlying groundwater that is considered a potential drinking water source. As such, groundwater contaminants detected during the data gap sampling (DGS) as part of this study were compared to their respective MCLs (or to their ambient water quality criteria [AWQC] if an MCL has not been established for the contaminant detected).

OU-1 (including IR Sites 6, 14, and 16) and OU-2C (including IR Site 5) overlie areas of groundwater beneath Alameda Point that are not considered to be potential drinking water sources; and groundwater contaminants detected at these sites were compared against their respective ERV or AWQC, rather than the MCL. MCLs, AWQCs and/or ERVs are listed for the detected analytes for each IR Site discussed in the sections below.

Soil and groundwater samples were collected as per procedures outlined in Appendix B-4 of the Final FSP (TtEMI 2001). VOC and TPH analytes and analysis methods are discussed in the Final FSP (TtEMI 2001). Detected chemicals in groundwater are presented in Appendix D, soil boring logs of each sample location are located in Appendix K, and geotechnical particle size analyses and physical properties data are located in Appendix D of this document. Storm sewer bedding soil sample locations and their co-adjacent direct push soil sample locations are depicted in Figures 1, 2, 3, and 4 (Site 4), 5 and 6 (Site 5), 7 (Site 6), 8 (Sites 9), 9 (Site 13), 10 (Site 14), 11 (Site 16), 12 and 13 (Site 21), and 14 (Site 23).

At IR sites 4, 5, 6, 9, 13, 16, 21, and 23, a total of 15 soil sample sets (30 geotechnical soil samples total) were reviewed and their permeability and hydraulic conductivity compared. Each sample set consisted of one sample from the vacuum extracted (VE) sediment pulled from the bedding material next to the storm sewer line, and another soil sample collected using direct-push (DP) sampling technology and located about 10 feet away and outside the zone of the bedding material or back-fill surrounding the same storm sewer line. A summary of the geotechnical data and groundwater chemical analyses follows below.

### 1.1.1 Site 4

Storm sewer study soil sample sets at Site 4 included two pairs; S04-DGS-VE01 and S04-DGS-DP22 located in the northwest corner of Site 4 (Figures 1 and 2), and S04-DGS-VE02 and S04-DGS-DP23 located off the southwest corner of Building 360 (Figures 3 and 4). Site 4 lies within OU-2B, where the underlying groundwater is considered to be a potential source of drinking water.

Point Name	Depth (feet below surface)	Porosity % Volume (bulk)		Permeability To Water (millidarcy)	Effective Hydraulic Conductivity			Soil Description USCS/ASTM	Field Notes
		Total	Air Filled		Centimeters per second	Feet per day	Inches per day		
S04-DGS-DP22	8.0	73.2	14.0	0.68	6.70E-07	0.002	0.02	Silt	clayey
S04-DGS-VE01	8.0	42.0	12.7	87.2	8.50E-05	0.241	2.89	Fine sand	silty/clayey
S04-DGS-DP23	4.5	31.8	5.3	41.5	4.07E-05	0.115	1.38	Fine sand	silty/clayey
S04-DGS-VE02	4.5	40.1	12.8	123	1.20E-04	0.340	4.08	Fine sand	silty/clayey

Notes: ASTM = American Society of Testing and Measurements

USCS = Unified Soil Classification System

Storm sewer bedding material sample S04-DGS-VE01 is substantively more permeable than the silt that makes up soil sample S04-DGS-DP22 though it still exhibits a relatively low hydraulic conductivity of less than 3 inches per day. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is greater than the offset soil sample), this particular pathway was further evaluated.

Groundwater samples from S04-DGS-VE01 were field lab-tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:

Point Name	Analyte	Result	Units	Qualifier	MCL	ERV / AWQC
S04-DGS-VE01-GW-8	Diesel Range Organics	240	µg/L	...	No standard	1,400
S04-DGS-VE01-GW-8	Gasoline Range Organics	450	µg/L	J	No standard	for TTPH
S04-DGS-VE01-GW-8	cis-1,2-Dichloroethene	22	µg/L	...	6	590
S04-DGS-VE01-GW-8	Trichloroethene	82	µg/L	...	5	360

Notes: AWQC = Ambient Water Quality Criteria (µg/L)      ERV = Ecological Reference Value (µg/L)  
 J = Estimated      MCL = Maximum Concentration Level (µg/L)  
 µg/L = micrograms per liter      TTPH = Total Total Petroleum Hydrocarbons (µg/L)

A review of the chemical iso-concentration groundwater plume map (Appendix C, TtEMI 2001) for the Site 4 area indicates that the locations for both S04-DGS-VE01 and S04-DGS-DP22 (northwest of Building 360 and due east of Site 21) lie within the 500 to 1,000 micrograms per liter (µg/L) groundwater concentration contours for both TPH-motor oil constituents and TPH-diesel constituents (Figure 1). S04-DGS-VE01 also lies just within the 1 µg/L contour for benzene. Both locations appear to lie outside previously mapped concentration contours showing minimum detected levels (0.5 µg/L) for the following VOCs in groundwater; trichloroethene (TCE); vinyl chloride (VC), and 1,1-dichloroethene (1,1-DCE)(Figure 2).

The presence of diesel and gasoline range organics, 1,2 DCE and TCE in S04-DGS-VE01 and a comparison of the geotechnical data suggest that the storm sewer bedding materials at S04-DGS-VE01 may be acting as a preferential pathway for contaminants, as several of these chemicals are seen in samples “up-gradient” in nearby Site 3 (and in other portions of Site 4) and the bedding materials are considerably more permeable than the offset silt soil sample at S04-DGS-DP22. Based on the DQO decision rules, because the two VOC detected exceed their MCLs, this pathway requires further evaluation (see Section 1.1.10).

Storm sewer bedding material sample S04-DGS-VE02 is about 3 times more permeable than the soil sample S04-DGS-DP23. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is greater than the offset soil sample), this particular pathway was further evaluated.

Groundwater samples from S04-DGS-VE02 were field lab-tested for TPH and VOCs. Analyses indicate the following detected chemical compound and its concentration:

Point Name	Analyte	Result	Units	Qualifier	MCL	ERV / AWQC
S04-DGS-VE02-GW-5	Motor Oil Range Organics	510	µg/L	...	No standard	1,400

Notes: AWQC = Ambient Water Quality Criteria (µg/L)      ERV = Ecological Reference Value (µg/L)  
MCL = Maximum Concentration Level (µg/L)      µg/L = micrograms per liter

A review of the chemical iso-concentration groundwater plume map for the Site 4 area (Appendix C, TtEMI 2001) indicates that the locations for both S04-DGS-VE02 and S04-DGS-DP23 (outside the southwest corner of Building 360), are just located beyond (below) the 500 µg/l groundwater concentration contour for TPH-motor oil constituents (Figure 3) and beyond (below) the 0.5 µg/L groundwater concentration contours for TCE and 1,1-DCE (Figure 4).

The presence of TPH-motor oil range organics and a comparison of the geotechnical data could suggest that the storm sewer bedding materials at S04-DGS-VE02 are acting as a preferential pathway for the detected contaminant, as they are impacted by TPH-motor oil range constituents and are relatively more permeable than the offset fine sand soil sample at S04-DGS-DP23. However, the close proximity of the S04-DGS-VE02 location to the iso-concentration contour for TPH-motor oil (less than 50 feet as depicted in Figure 3), is well within the range of error for subjective contouring, thus, the concentration encountered may also be representative of the area in general and not just of the bedding materials.

If the bedding materials were acting as a preferential pathway it would not be unreasonable to expect that some VOCs would have also been found in the groundwater sample from S04-DGS-VE02 given that the bedding materials exhibit slightly greater permeability than the soil from S04-DGS-DP23, and due to the presence of high concentrations of VOCs in the groundwater less than 100 feet to the north. Considering these factors, it is not possible to conclusively state that the storm sewer bedding materials at S04-DGS-VE02 are behaving as a preferential pathway for nearby contaminants. Based on the DQO decision rules, because the TPH-motor oil range organics do not exceed the AWQC criteria, this pathway does not require further evaluation.

### 1.1.2 Site 5

Storm sewer study soil sample sets at Site 5 included two pairs; S05-DGS-VE01 and S05-DGS-DP29 located in the northeast corner of Site 5 and off the northwest corner of Building 62 (Figure 5), and S05-DGS-VE02 and S05-DGS-DP30 located east of Site 5, and northwest of Building 6 (Figure 6). Site 5 lies within OU-2C, where groundwater is not considered to be a potential source of drinking water.

Point Name	Depth (feet below surface)	Porosity % Volume (bulk)		Permeability To Water (millidarcy)	Effective Hydraulic Conductivity			Soil Description USCS/ASTM	Field Notes
		Total	Air Filled		Centimeters per second	Feet per day	Inches per day		
S05-DGS-DP29	7.5	42.2	13.5	296	2.92E-04	0.828	9.94	Fine sand	medium-fine sand
S05-DGS-VE01	N/A	40.7	24.4	291	2.85E-04	0.809	9.70	Fine sand	medium-fine sand
S05-DGS-DP30	5.0	43.0	38.8	236	2.33E-04	0.660	7.92	Fine sand	medium-fine sand
S05-DGS-VE02	5.0	46.8	40.9	82.6	7.99E-05	0.226	2.72	Fine sand	medium-fine sand, silty

Notes: ASTM = American Society of Testing and Measurements

USCS = Unified Soil Classification System

Storm sewer bedding material sample S05-DGS-VE01 and soil sample S05-DGS-DP29 have nearly identical geotechnical parameters. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is comparable to the offset soil sample), this particular pathway need not be evaluated further.

Soil sample S05-DGS-DP30 is nearly 3 times more permeable than the storm sewer bedding material sample S05-DGS-VE02. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is less than the offset soil sample), this particular pathway need not be evaluated further.

### 1.1.3 Site 6

Storm sewer study soil sample sets at Site 6 included two pairs; S06-DGS-VE01 and S06-DGS-DP09 located off the northeast corner of Building 41 and S06-DGS-VE02 and S06-DGS-DP10 located off the southeast corner of Building 41 (both depicted in Figure 7). Site 6 lies within OU-1, where the underlying groundwater is not considered to be a potential source of drinking water.

Point Name	Depth (feet below surface)	Porosity % Volume (bulk)		Permeability To Water (millidarcy)	Effective Hydraulic Conductivity			Soil Description USCS/ASTM	Field Notes
		Total	Air Filled		Centimeters per second	Feet per day	Inches per day		
S06-DGS-DP09	3.0	42.2	16.8	382	3.80E-04	1.076	12.91	Fine sand	medium-fine sand
S06-DGS-VE01	3.0	42.9	16.8	311	3.04E-04	0.862	10.34	Fine sand	medium-fine sand, silty
S06-DGS-DP10	5.5	43.0	14.6	336	3.34E-04	0.946	11.35	Fine sand	medium-fine sand, silty
S06-DGS-VE02	5.4	44.0	14.7	278	2.80E-04	0.794	9.53	Fine sand	medium-fine sand, silty

Notes: ASTM = American Society of Testing and Measurements

USCS = Unified Soil Classification System

Storm sewer bedding material sample S06-DGS-VE01 and soil sample S06-DGS-DP09 have nearly identical geotechnical parameters, with the fine sand soil sample being slightly more permeable. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is comparable to the offset soil sample), this particular pathway need not be evaluated further.

Storm sewer bedding material sample S06-DGS-VE02 and soil sample S06-DGS-DP10 have nearly identical geotechnical parameters, with the fine sand soil sample being slightly more permeable. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is comparable to the offset soil sample), this particular pathway need not be evaluated further.

#### 1.1.4 Site 9

Storm sewer study soil sample sets at Site 9 included one pair; S09-DGS-VE01 and S09-DGS-DP06 located northwest of Building 410, due north of small building 287 (Figure 8). Site 9 lies within OU-2A, where the underlying groundwater is considered to be a potential source of drinking water.

Point Name	Depth (feet below surface)	Porosity % Volume (bulk)		Permeability To Water (millidarcy)	Effective Hydraulic Conductivity			Soil Description USCS/ASTM	Field Notes
		Total	Air Filled		Centimeters per second	Feet per day	Inches per day		
S09-DGS-DP06	8.0	42.4	12.4	591	5.77E-04	1.635	19.62	Fine sand	medium-fine sand
S09-DGS-VE01	8.0	44.2	20.3	212	2.07E-04	0.588	7.05	Fine sand	medium-fine sand, clayey

Notes: ASTM = American Society of Testing and Measurements USCS = Unified Soil Classification System

Fine sand soil sample S09-DGS-DP06 is nearly 3 times more permeable than the fine sand that makes up storm sewer bedding material sample S09-DGS-VE01, though both samples show fairly high hydraulic conductivities. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is less than the offset soil sample), this particular pathway need not be evaluated further.

#### 1.1.5 Site 13

Storm sewer study soil sample sets at Site 13 included two pairs; S13-DGS-VE01 and S13-DGS-DP01 located off the northeast corner of Building 397, and S13-DGS-VE02 and S13-DGS-DP02 located in the

northeast corner of Site 13 (both depicted in Figure 9). Site 13 lies within OU-2A, where the underlying groundwater is considered to be a potential source of drinking water.

Point Name	Depth (feet below surface)	Porosity % Volume (bulk)		Permeability To Water (millidarcy)	Effective Hydraulic Conductivity			Soil Description USCS/ASTM	Field Notes
		Total	Air Filled		Centimeters per second	Feet per day	Inches per day		
S13-DGS-DP01	5.5	33.9	7.4	32.0	3.19E-05	0.091	1.09	Fine sand	Medium-fine sand, clayey
S13-DGS-VE01	5.5	40.9	19.2	350	3.44E-04	0.974	11.69	Fine sand	Medium-fine sand, clayey
S13-DGS-DP02	8.0	35.3	0.9	4.66	4.55E-06	0.013	0.15	Fine sand	Medium-fine sand, silty/ clayey
S13-DGS-VE02	8.0	41.7	17.9	186	1.82E-04	0.517	6.20	Fine sand	Medium-fine sand, silty/ clayey

Notes: ASTM = American Society of Testing and Measurements USCS = Unified Soil Classification System

Storm sewer bedding material sample S13-DGS-VE01 is nearly 10 times more permeable than the clayey, fine sand that makes up soil sample S13-DGS-DP01. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is greater than the offset soil sample), this particular pathway was further evaluated.

Groundwater samples from S13-DGS-VE01 were tested for TPH and VOCs. Analyses indicate the following detected chemical compound and its concentration:

Point Name	Analyte	Result	Units	Qualifier	MCL	ERV / AWQC
S13-DGS-VE01-GW-5.5	Motor Oil Range Organics	1,300	µg/L	...	No standard	1,400

Notes: AWQC = Ambient Water Quality Criteria (µg/L) ERV = Ecological Reference Value (µg/L)  
MCL = Maximum Concentration Level (µg/L) µg/L = micrograms per liter

A review of the chemical iso-concentration groundwater plume map for the Site 13 area (Appendix C, TiEMI 2001) indicates that the locations for both S13-DGS-VE01 and S13-DGS-DP01 lie within the 500 to 1,000 µg/L groundwater concentration contours for TPH-motor oil constituents (Figure 9). The presence of TPH-motor oil range organics and a comparison of the geotechnical data suggest that the storm sewer bedding materials at S13-DGS-VE01 could act as a preferential pathway as they are contaminated and are far more permeable than the offset fine sand soil sample at S13-DGS-DP01. Based on the DQO decision rules, because the level of TPH-motor oil range organics does not exceed its AWQC, this pathway does not require further evaluation.

Storm sewer bedding material sample S13-DGS-VE02 is roughly 40 times more permeable than the silty, clayey fine sand soil sample S13-DGS-DP02. Based on the DQO decision rules for the storm sewer



Point Name	Depth (feet below surface)	Porosity % Volume (bulk)		Permeability To Water (millidarcy)	Effective Hydraulic Conductivity			Soil Description USCS/ASTM	Field Notes
		Total	Air Filled		Centimeters per second	Feet per day	Inches per day		
S14-DGS-DP09	4.0	37.5	25.1	117	1.15E-04	0.326	3.92	Fine sand	grvl-m, silty/clayey
S14-DGS-VE01	4.0	45.6	17.2	174	1.70E-04	0.482	5.79	Fine sand	grvl-m, silty/clayey
S14-DGS-DP10	5.0	33.7	11.2	63.9	6.26E-05	0.177	2.13	Medium sand	grvl-m, silty/clayey
S14-DGS-VE02	5.0	37.1	10.5	10.1	9.84E-06	0.028	0.33	Medium sand	grvl-m, silty/clayey

Notes: ASTM = American Society of Testing and Measurements      grvl-m = gravel to medium sand  
USCS = Unified Soil Classification System

Storm sewer bedding material sample S14-DGS-VE01 is marginally more permeable than the poorly-sorted fine sand that makes up soil sample S14-DGS-DP09. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is greater than the offset soil sample), this particular pathway was further evaluated.

Groundwater samples from S14-DGS-VE01 were tested for TPH and VOCs. Analyses indicate the following chemical compound and its concentration:

Point Name	Analyte	Result	Units	Qualifier	MCL	ERV / AWQC
S14-DGS-VE01-GW-4.5	M,P-Xylene	1	µg/L	...	1,750	13

Notes: AWQC = Ambient Water Quality Criteria (µg/L)      ERV = Ecological Reference Value (µg/L)  
MCL = Maximum Concentration Level (µg/L)      µg/L = micrograms per liter

A review of the chemical iso-concentration groundwater plume map for the Site 14 area (Appendix C, TtEMI 2001) indicates that the locations for S14-DGS-VE01 and for S14-DGS-DP09 lie outside the groundwater concentration contours for vinyl chloride, cis 1,2-dichloroethene (1,2-DCE), and total TPH (Figure 10). As discussed at Site 9 the presence of an extremely low level of m,p-xylene appears to be rather anomalous as no other TPH compounds or VOCs were detected in groundwater collected at S14-DGS-VE01. Based on the DQO decision rules, because the level of m,p-xylene does not exceed its AWQC or MCL, this pathway does not require further evaluation.

The gravelly, silty, and clayey medium sand sample S14-DGS-DP10 is over 6 times more permeable than the storm sewer bedding material sample S14-DGS-VE02, though both samples have low hydraulic conductivities. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is less than the offset soil sample), this particular pathway need not be further evaluated.

### 1.1.7 Site 16

Storm sewer study soil sample sets at Site 16 included one pair; S16-DGS-VE02 and S16-DGS-DP07 at a location due south of Site 16 (Figure 11). Site 16 lies within OU-1, where the underlying groundwater is not considered to be a potential source of drinking water.

Point Name	Depth (feet below surface)	Porosity % Volume (bulk)		Permeability To Water (millidarcy)	Effective Hydraulic Conductivity			Soil Description USCS/ASTM	Field Notes
		Total	Air Filled		Centimeters per second	Feet per day	Inches per day		
S16-DGS-DP07	6.0	44.2	15.2	365	3.56E-04	1.009	12.11	Fine sand	medium-fine sand
S16-DGS-VE02	4.7	44.3	32.8	317	3.09E-04	0.876	10.51	Fine sand	medium-fine sand, gravel

Notes: ASTM = American Society of Testing and Measurements USCS = Unified Soil Classification System

The fine sand soil sample S16-DGS-DP07 is marginally more permeable than the storm sewer bedding material sample S16-DGS-VE02. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is comparable to the offset soil sample), this particular pathway need not be further evaluated.

### 1.1.8 Site 21

Storm sewer study soil sample sets at Site 21 included two pairs; S21-DGS-VE01 and S21-DGS-DP09 located due west of Building 113, and S21-DGS-VE02 and S21-DGS-DP10 located southwest of Building 113 (both are depicted in Figures 12 and 13). Site 21 lies within OU-2B where the underlying groundwater is considered to be a potential source of drinking water.

Point Name	Depth (feet below surface)	Porosity % Volume (bulk)		Permeability To Water (millidarcy)	Effective Hydraulic Conductivity			Soil Description USCS/ASTM	Field Notes
		Total	Air Filled		Centimeters per second	Feet per day	Inches per day		
S21-DGS-DP09	7.5	44.6	17.2	378	3.80E-04	1.078	12.94	Fine sand	-
S21-DGS-VE01	7.5	44.0	19.3	285	2.78E-04	0.789	9.47	Fine sand	-
S21-DGS-DP10	8.0	47.0	17.0	410	4.09E-04	1.160	13.92	Fine sand	-
S21-DGS-VE02	8.0	40.4	18.4	83.3	8.13E-05	0.230	2.77	Fine sand	gravel, medium-fine sand, silty

Notes: ASTM = American Society of Testing and Measurements USCS = Unified Soil Classification System

The fine sand soil sample S21-DGS-DP09 is somewhat more permeable than the fine sand storm sewer bedding material sample S21-DGS-VE01. Based on the DQO decision rules for the storm sewer

exposure pathways investigation (the hydraulic conductivity of the bedding material is comparable to the offset soil sample), this particular pathway need not be further evaluated.

The fine sand soil sample S21-DGS-DP10 is substantively more permeable (nearly 5 times) than the fine sand storm sewer bedding material sample S21-DGS-VE02. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is less than the offset soil sample), this particular pathway need not be further evaluated.

**1.1.9 Site 23**

Storm sewer study soil sample sets at Site 23 included one pair; S23-DGS-VE01 and S23-DGS-DP02 at a location northwest of Building 530 (Figure 14). Site 23 lies within OU-2A, where the underlying groundwater is considered to be a potential source of drinking water.

Point Name	Depth (feet below surface)	Porosity % Volume (bulk)		Permeability To Water (millidarcy)	Effective Hydraulic Conductivity			Soil Description USCS/ASTM	Field Notes
		Total	Air Filled		Centimeters per second	Feet per day	Inches per day		
S23-DGS-DP02	7.8	42.8	4.2	372	3.71E-04	1.051	12.61	Fine sand	Medium sand, very silty
S23-DGS-VE01	7.8	40.8	15.7	159	1.55E-04	0.440	5.28	Fine sand	Medium fine sand, silty

Notes: ASTM = American Society of Testing and Measurements USCS = Unified Soil Classification System

The silty, fine sand soil sample S23-DGS-DP02 is over twice as permeable as the storm sewer bedding material sample S23-DGS-VE01, though both samples exhibit relatively good hydraulic conductivities. Based on the DQO decision rules for the storm sewer exposure pathways investigation (the hydraulic conductivity of the bedding material is less than the offset soil sample), this particular pathway need not be further evaluated.

**1.1.10 Summary of Bedding Materials Analyses**

Based on the DQO decision rules for the storm sewer exposure pathways investigation (Table A-8, TtEMI 2001), only two of fifteen VE and DP sample point sets (that were compared for geotechnical parameters and analyzed for TPH and VOCs in groundwater) satisfied the decision rule conditions; that is, where the storm sewer bedding materials had higher permeabilities than the surrounding site soils and groundwater chemical constituents were found to exceed their respective MCLs, AWQCs, and/or ERVs. These storm sewer sample results lead to further investigation of the storm sewer bedding materials as preferential pathways at Site 4 and Site 13 (Table 2).

#### **Site 4**

- S04-DGS-VE01 has a higher effective hydraulic conductivity than offset soil S04-DGS-DP22 (2.89 vs. 0.02 inches per day).
- Groundwater contaminants that exceeded their MCL/AWQC/ERV: cis-1,2 DCE (22 vs. 6 µg/L) and TCE (82 vs. 5 µg/L).

An additional vacuum extraction sample location was chosen about 60 feet down-stream from S04-DGS-VE01. This location, S04-DGS-VE03 (Figure 2), was sampled for groundwater, and an analysis for cis-1,2-DCE and TCE did not detect either constituent above the laboratory reporting limit of 1 µg/L for each analyte. As per the decision rule for this part of the storm sewer pathway evaluation, further evaluation of the bedding materials along this portion of the storm sewer system is not required. In other words, the bedding materials between S04-DGS-VE01 and S04-DGS-VE03 do not appear to be acting as a preferential pathway for contaminants detected in this area.

#### **Site 13**

- S13-DGS-VE02 has a higher effective hydraulic conductivity than offset soil S13-DGS-DP02 (6.20 vs. 0.15 inches per day).
- Groundwater contaminant that exceeded its MCL/AWQC/ERV: TPH-motor oil range (1,900 vs. 1,400 µg/L).

An additional vacuum extraction sample location was chosen about 100 feet down-stream from S13-DGS-VE02. This location, S13-DGS-VE03 (Figure 9), was sampled for groundwater, and an analysis for TPH-motor oil range constituents detected motor oil at 3,800 ug/L and diesel at 100 ug/L. The concentration appears to be increasing with proximity to the TPH plumes associated with Site 23. No differentiation could be made between contamination associated with potential migration from Sites 13 and 22, and the TPH plume associated with Site 23.

### **1.2 Preferential Flow Of Contaminated Groundwater From IR Sites To Surface Water From Infiltration Of Groundwater Through Cracks Or Breaks In The Storm Sewer Pipes**

As specified in the DQOs (Table A-8, TtEMI 2001) for this second part of the pathway evaluation, the following decision question was asked:

- 2) Do damaged storm sewer lines provide a preferential flow path for contaminated groundwater from IR sites to surface water at concentrations that pose unacceptable risk to the environment?

To address DQO question 2) water samples were collected from specified manholes and/or catch basins within isolated sections of the storm sewer lines (immediately down-stream of currently mapped groundwater plumes and at the last manhole closest to the storm system line outfall). Storm sewer sections downstream of groundwater plume areas were isolated from up-gradient flow that originates from outside of the plume area and also from potential down-gradient tidal influences. From a specified manhole and/or catch basin just down-stream of the plume area, water samples were collected to determine concentrations of chemicals infiltrating into the storm sewer lines through cracks or breaks.

The following DQO decision rules (Table A-8, TtEMI 2001) guided the evaluation:

- If chemical concentrations in groundwater infiltrating damaged storm sewer lines do not exceed ERVs, then this pathway will not be evaluated further.
- If chemical concentrations in groundwater infiltrating into the storm sewer lines near the plume exceed ERVs, then water samples will be collected at the last accessible manhole or catch basin prior to the outfall, which is the discharge point to the Bay. If the predicted discharge concentrations or the discharge point concentrations do not exceed ERVs, then the pathway will not be evaluated further. Otherwise, storm sewer data will be used during the RI/FS process to develop and analyze remedial alternatives for addressing this pathway.

As discussed in Appendix B-4 of the Final FSP (TtEMI 2001), Procedure B1 detailed the methods used to determine baseline concentrations of contaminants in the storm sewer lines down-stream of known groundwater plume areas. As a result of reviewing storm sewer line information concerning known pipe integrity, previous analytical data collected from the storm sewer system, and the location of the groundwater concentration plumes (see Table A-8, under Step 3 for a complete listing of decision inputs; TtEMI 2001), 27 storm sewer line locations (manholes, catch basins, and/or outfalls) were identified for sampling. 19 sample points followed Procedure B1.

If the sampled points under Procedure B1 were found to exceed groundwater ERVs, then additional sample points were identified for sampling under Procedure B2 (8 locations were tentatively selected), which detailed the methods used to determine contaminant concentrations in the storm sewer system down-stream of known plumes, at a manhole and/or catch basin closest to the line's outfall into the Bay or Seaplane Lagoon. Table 1 details the location and sampling notes for all 27 locations identified as part of this investigation.

The following sections describe site-by-site, the storm sewer infiltration sampling activities and analytical results. Storm sewer system drainage areas examined in this investigation included portions draining

Sites 5, 6, 9, 11, 14, 15, 16, 21, and 23. Complete analytical results are shown in Appendix D of this document. Manholes, catch basins and outfalls that were targeted for sampling are highlighted on Figures 15 through 21.

### 1.2.1 Sites 5, 6, and 15

In a wide region centered in the Site 5 area, five separate storm sewer systems were examined. These five systems drain individually through Outfalls A, B, D, G and Z (Figures 15, 16, and 17). The area around Site 6 also drains into the system that discharge through Outfall G, (as does a portion of the area around Site 21 which also drains through nearby Outfall H, see Section 1.2.6). A portion of Site 15 drains through Outfall Z.

Storm sewer lines draining to Outfall A were sampled at locations 7A and at Outfall A itself (Figure 15). The water sample from location 7A was tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:

Point Name	Analyte	Result	Units	Qualifier	ERV
S05-DGS-MH-7A-GWI	Chloroform	0.4	µg/L	J	28
S05-DGS-MH-7A-GWI	Motor Oil Range Organics	740	µg/L	M	1,400

Notes: ERV = Ecological Reference Value (µg/L)  
M = Motor Oil

J = Estimated  
µg/L = micrograms per liter

The water sample from Outfall A was tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:

Point Name	Analyte	Result	Units	Qualifier	ERV
S05-DGS-OF-A-GWI	Chloroform	0.5	µg/L	J	28
S05-DGS-OF-A-GWI	Motor Oil Range Organics	370	µg/L	M	1,400

Notes: ERV = Ecological Reference Value (µg/L)  
M = Motor Oil

J = Estimated  
µg/L = micrograms per liter

Based on the DQO decision rules for the storm sewer exposure pathways evaluation via groundwater infiltration (the chemical concentrations do not exceed ERVs), this particular pathway draining out through Outfall A need not be further evaluated.

Storm sewer lines draining to Outfall B were sampled at location 4B (with manhole location 1B targeted for follow-on sampling if 4B exceeded ERVs)(Figure 15). The water sample from location 4B was tested for TPH and VOCs. Analyses indicate that there were no detectable levels of TPH or VOCs. Therefore,







storm sewer exposure pathways evaluation via groundwater infiltration (the chemical concentrations do not exceed ERVs), this particular pathway draining out through Outfall W need not be further evaluated.

Storm sewer lines draining to Outfall BB were sampled at locations BBD and BBA (locations BBA and BBC were the original targets, but catch basin BBC was dry; Figure 20). The water sample from catch basin BBD was tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:

Point Name	Analyte	Result	Units	Qualifier	ERV
S14-DGS-CB-BBD-GWI	Chlorobenzene	0.3	µg/L	J	50
S14-DGS-CB-BBD-GWI	Diesel Range Organics	240	µg/L	D	1,400

Notes: ERV = Ecological Reference Value (µg/L)      J = Estimated  
D = Diesel      µg/L = micrograms per liter

The water sample from BBA was also tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:

Point Name	Analyte	Result	Units	Qualifier	ERV
S14-DGS-CB-BBA-GWI	Gasoline Range Organics	30	µg/L	J	1,400
S14-DGS-CB-BBA-GWI	Diesel Range Organics	270	µg/L	D	For TTPH

Notes: ERV = Ecological Reference Value (µg/L)      TTPH = Total Total Petroleum Hydrocarbons (µg/L)  
D = Diesel      µg/L = micrograms per liter  
J = Estimated

Based on the DQO decision rules for the storm sewer exposure pathways evaluation via groundwater infiltration (the chemical concentrations do not exceed ERVs), these particular pathways draining out through Outfall W and Outfall BB need not be further evaluated.

### 1.2.5 Site 16

Draining the Site 16 area, one storm sewer system was examined. This system drains through Outfall Q into the Breakwater Beach area (Figure 21). Storm sewer lines draining to Outfall Q were sampled at locations 1-QA and at Outfall Q itself. The water sample from catch basin 1-QA was tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:

Point Name	Analyte	Result	Units	Qualifier	ERV
S16-DGS-CB-1-QA-GWI	1,2-Dichloroethene (Total)	0.6	µg/L	...	590*
S16-DGS-CB-1-QA-GWI	Motor Oil Range Organics	740	µg/L	M	1,400

Notes: ERV = Ecological Reference Value (µg/L)      J = Estimated  
M = Motor Oil      µg/L = micrograms per liter

The water sample from Outfall Q was tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:

Point Name	Analyte	Result	Units	Qualifier	ERV
S16-DGS-OF-Q-GWI	Motor Oil Range Organics	230	µg/L	M	1,400

Notes: ERV = Ecological Reference Value (µg/L)      J = Estimated  
M = Motor Oil      µg/L = micrograms per liter

Based on the DQO decision rules for the storm sewer exposure pathways evaluation via groundwater infiltration (the chemical concentrations do not exceed ERVs), this particular pathway draining out through Outfall Q need not be further evaluated.

### 1.2.6 Site 21

Around the Site 21 area, two storm sewer systems were examined. These two systems drain individually through Outfalls G and H into the Seaplane Lagoon (Figure 19). Storm sewer lines draining to Outfall G were sampled at the Outfall G location (with manhole location 1G targeted for sampling if Outfall G was not exposed at low tide). The water samples from location Outfall G were tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:

Point Name	Analyte	Result	Units	Qualifier	ERV
S21-DGS-OF-G-GWI	1,1,1-Trichloroethane	2	µg/L	...	62
S21-DGS-OF-G-GWI	1,1-Dichloroethane	1	µg/L	...	47
S21-DGS-OF-G-GWI	1,1-Dichloroethene	0.4	µg/L	J	25
S21-DGS-OF-G-GWI	1,2-Dichloroethene (Total)	3	µg/L	...	590*
S21-DGS-OF-G-GWI	Chloroethane	0.9	µg/L	J	100
S21-DGS-OF-G-GWI	Trichloroethene	1	µg/L	J	360
S21-DGS-OF-G-GWI	Vinyl Chloride	0.3	µg/L	J	782
S21-DGS-OF-G-GWI	Motor Oil Range Organics	400	µg/L	M	1,400

Notes: ERV = Ecological Reference Value (µg/L)      J = Estimated  
µg/L = micrograms per liter      M = Motor Oil  
\* = ERV not established for Total 1,2-DCE

Storm sewer lines draining to Outfall H were sampled at location 6H and at the Outfall H location (with manhole location 1H targeted for sampling if Outfall H was not exposed at low tide; Figure 19). The water samples from manhole 6H were tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:

Point Name	Analyte	Result	Units	Qualifier	ERV
S21-DGS-MH-6H-GWI	1,2-Dichloroethene (Total)	5	µg/L	...	590*
S21-DGS-MH-6H-GWI	Methyl Tertiary Butyl Ether	2	µg/L	J	8000
S21-DGS-MH-6H-GWI	Trichloroethene	2	µg/L	J	360
S21-DGS-MH-6H-GWI	Vinyl Chloride	0.4	µg/L	J	782
S21-DGS-MH-6H-GWI	Motor Oil Range Organics	270	µg/L	M	1,400

Notes: ERV = Ecological Reference Value (µg/L)                      J = Estimated  
µg/L = micrograms per liter    M = Motor Oil  
\* = ERV not established for Total 1,2-DCE

The water samples from location Outfall H were tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:

Point Name	Analyte	Result	Units	Qualifier	ERV
S21-DGS-OF-H-GWI	1,1,1-Trichloroethane	0.3	µg/L	J	62
S21-DGS-OF-H-GWI	1,1-Dichloroethane	0.5	µg/L	...	47
S21-DGS-OF-H-GWI	1,2-Dichloroethene (Total)	6	µg/L	...	590*
S21-DGS-OF-H-GWI	Methyl Tertiary Butyl Ether	2	µg/L	...	8000
S21-DGS-OF-H-GWI	Trichloroethene	4	µg/L	J	360
S21-DGS-OF-H-GWI	Vinyl Chloride	0.8	µg/L	J	782
S21-DGS-OF-H-GWI	Motor Oil Range Organics	390	µg/L	M	1,400

Notes: ERV = Ecological Reference Value (µg/L)                      J = Estimated  
µg/L = micrograms per liter    M = Motor Oil  
\* = ERV not established for Total 1,2-DCE

Based on the DQO decision rules for the storm sewer exposure pathways evaluation via groundwater infiltration (the chemical concentrations do not exceed ERVs), these particular pathways draining out through Outfall G and Outfall H need not be further evaluated.

### 1.2.7 Site 23

At Site 23, one storm sewer system was examined. This system drains through Outfall P into the Breakwater Beach area (Figure 21). Storm sewer lines draining to Outfall P were sampled at location 2-P. The water sample from manhole/catch basin 2-P was tested for TPH and VOCs. Analyses indicate the following detected chemical compounds and their concentrations:



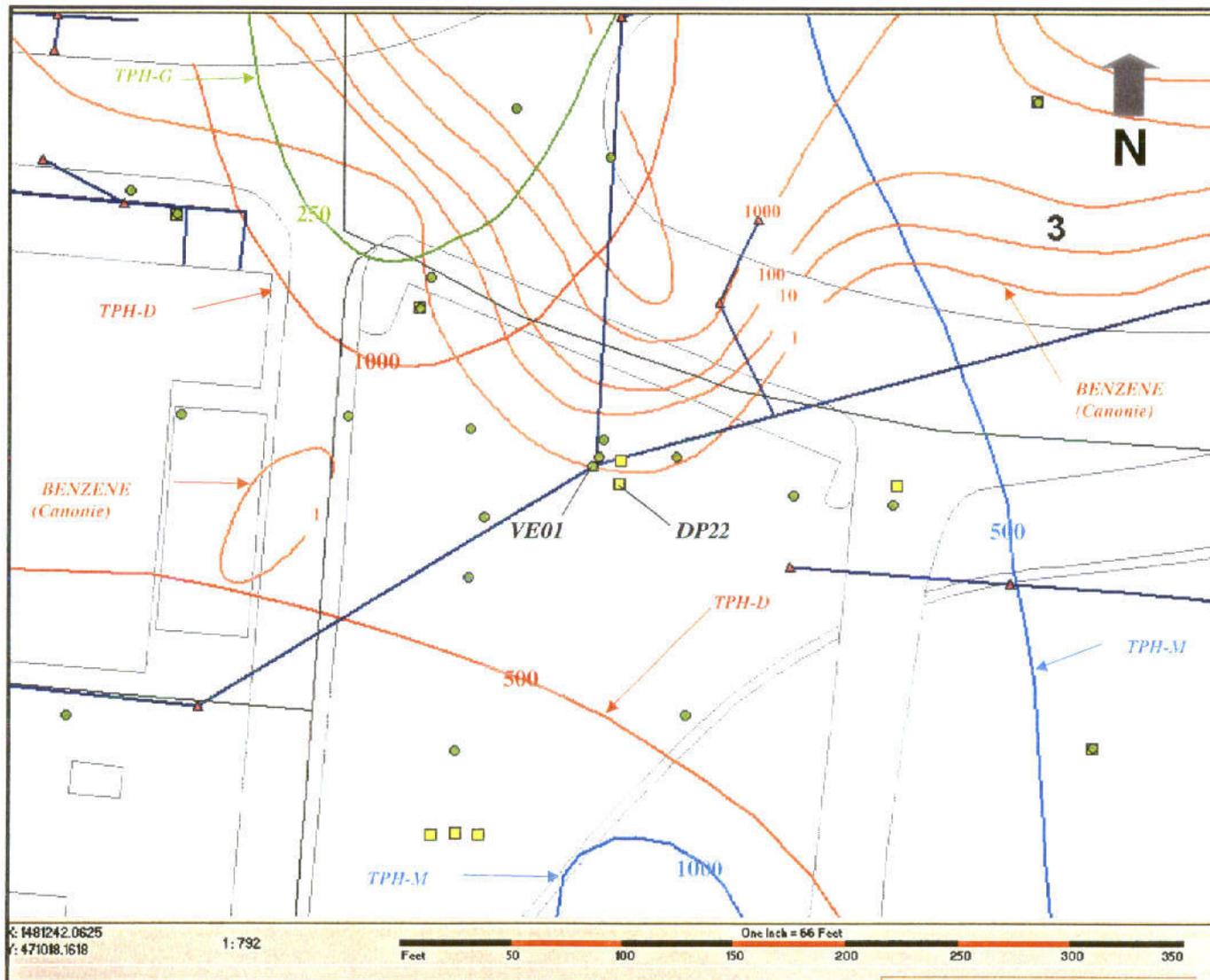
In conclusion, no further evaluation of these storm sewer pathways is recommended at this time, as continuing remedial investigation and feasibility studies will focus on mitigating known contamination to soil and groundwater that has been further defined as part of the most recently completed data gap sampling activities.

## REFERENCES

California Regional Water Quality Control Board (RWQCB). 2000. Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables. Interim Final, August.

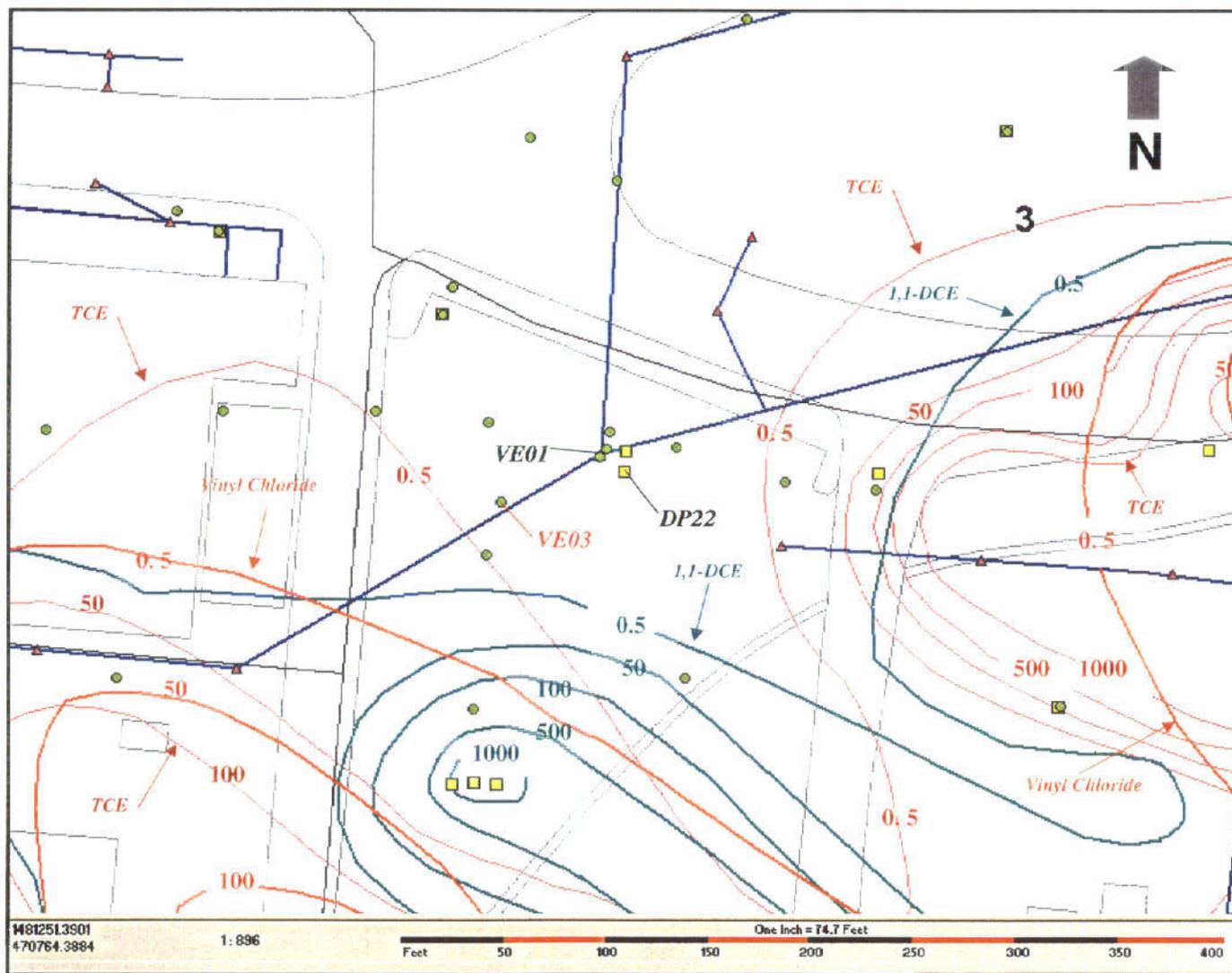
Tetra Tech EM Inc. (TtEMI). 2001. Final Field Sampling Plan and Quality Assurance Project Plan, Supplemental Remedial Investigation, Data Gap Sampling for Operable Units 1 and 2, Alameda Point. Prepared for the Department of the Navy, Southwest Division, Naval Facilities Engineering Command, San Diego, California. June 14.

## FIGURES



Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter (µg/L)

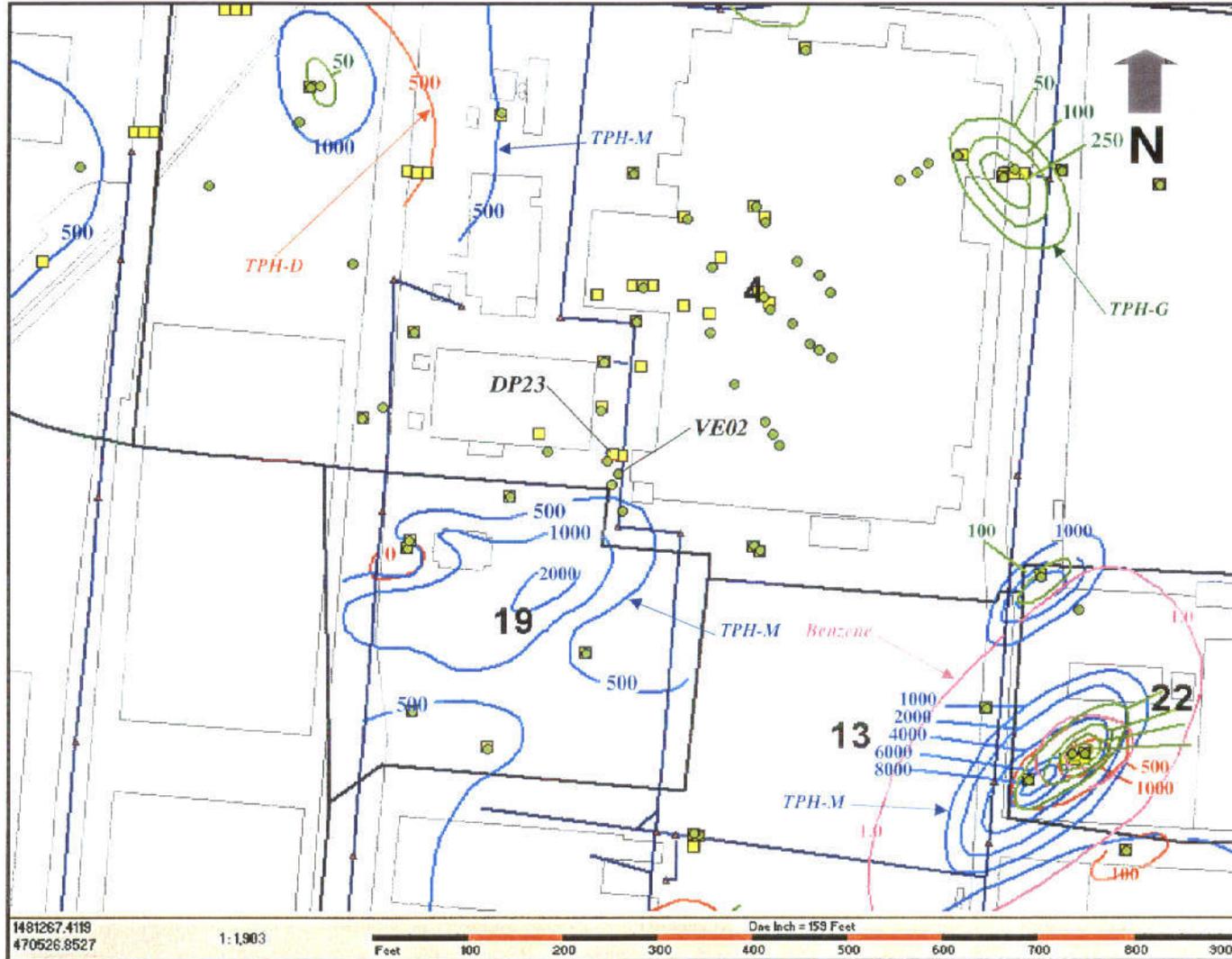
**Figure 1. Site 4: Total Petroleum Hydrocarbons (TPHs)  
Pre-Data Gap Sampling - Groundwater Iso-concentration Contours  
Sample Locations S04-DGS-VE01 and S04-DGS-DP22**



Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter ( $\mu\text{g/L}$ )

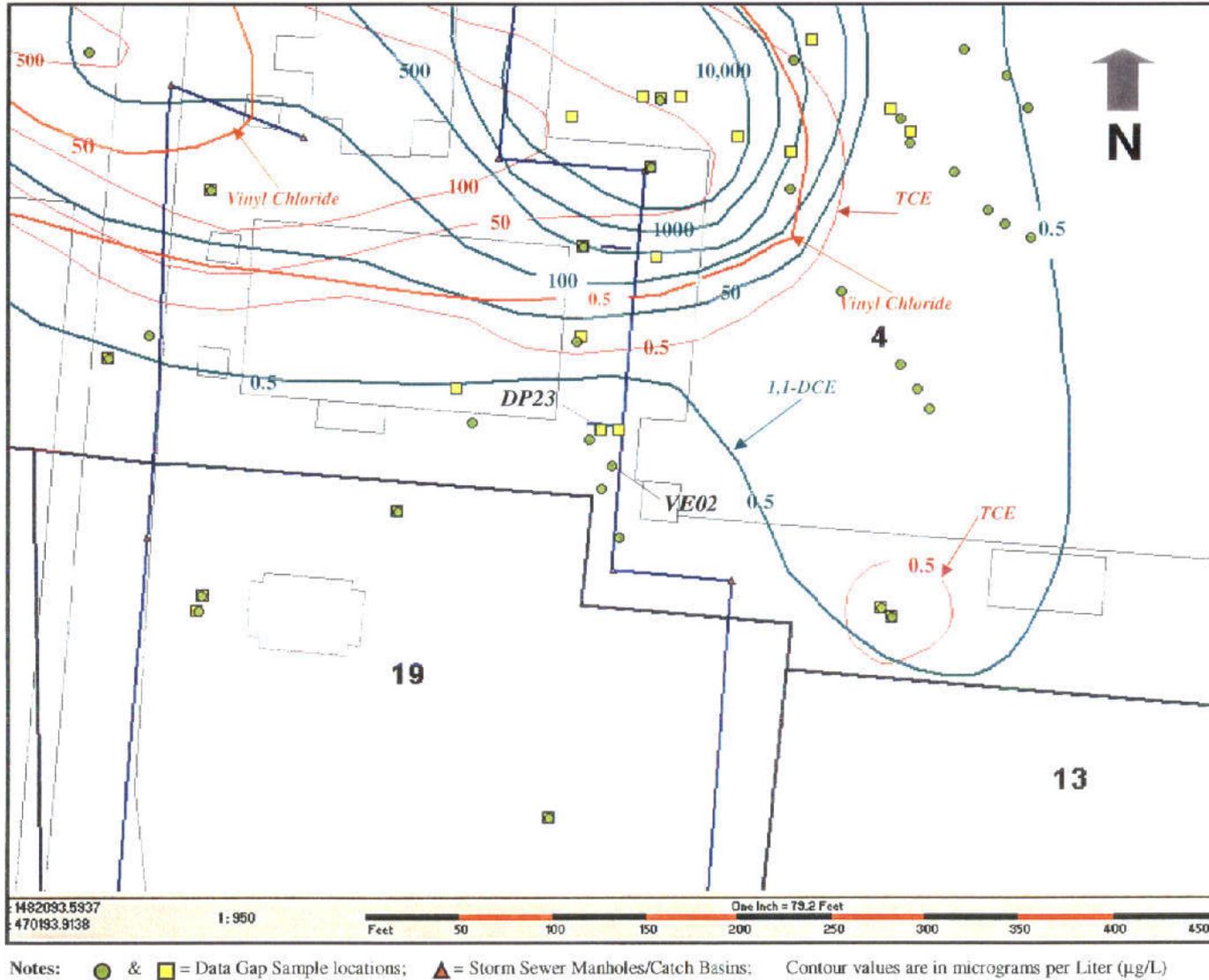
**Figure 2. Site 4: Volatile Organic Compounds (VOCs)**  
**Pre-Data Gap Sampling - Groundwater Iso-concentration Contours**  
**Sample Locations S04-DGS-VE01 and S04-DGS-DP22**

DS.0385.15645

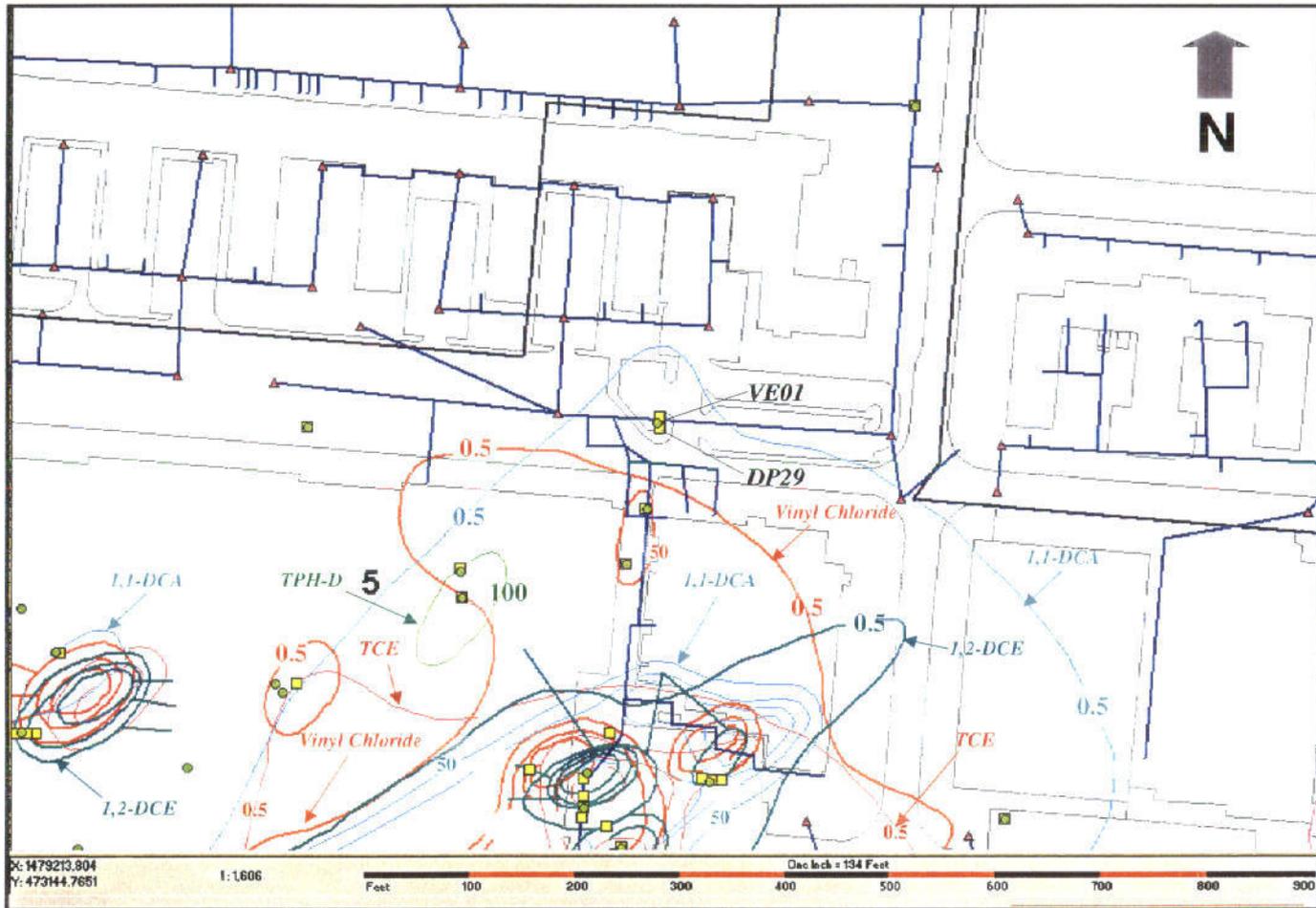


Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter (µg/L)

**Figure 3. Site 4: Total Petroleum Hydrocarbons (TPHs) Pre-Data Gap Sampling - Groundwater Iso-concentration Contours Sample Locations S04-DGS-VE02 and S04-DGS-DP23**



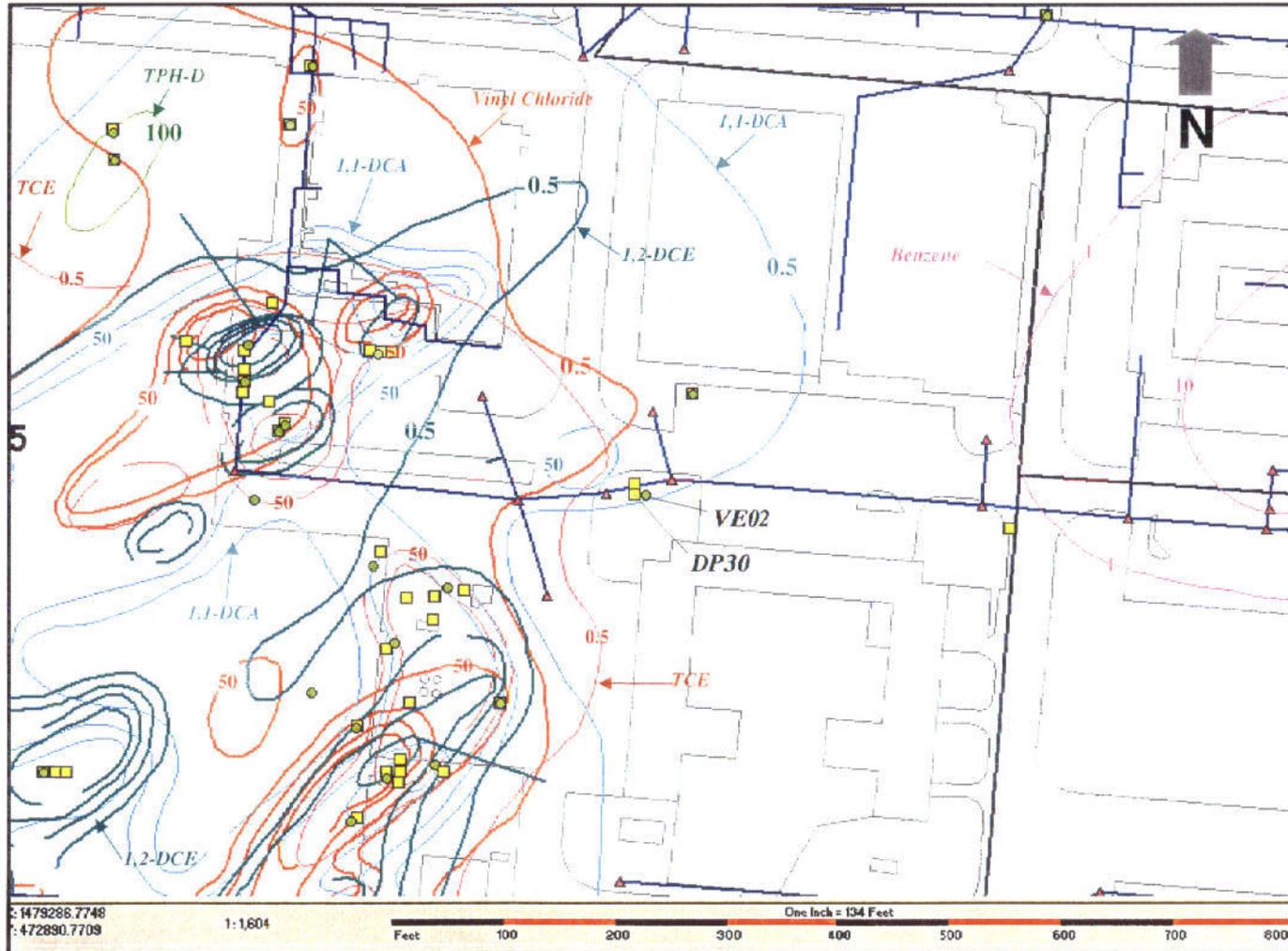
**Figure 4.** Site 4: Volatile Organic Compounds (VOCs)  
 Pre-Data Gap Sampling - Groundwater Iso-concentration Contours  
 Sample Locations S04-DGS-VE02 and S04-DGS-DP23



Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter ( $\mu\text{g/L}$ )

**Figure 5. Site 5: Total Petroleum Hydrocarbons (TPHs) & Volatile Organic Compounds (VOCs) Pre-Data Gap Sampling - Groundwater Iso-concentration Contours Sample Locations S05-DGS-VE01 and S05-DGS-DP29**

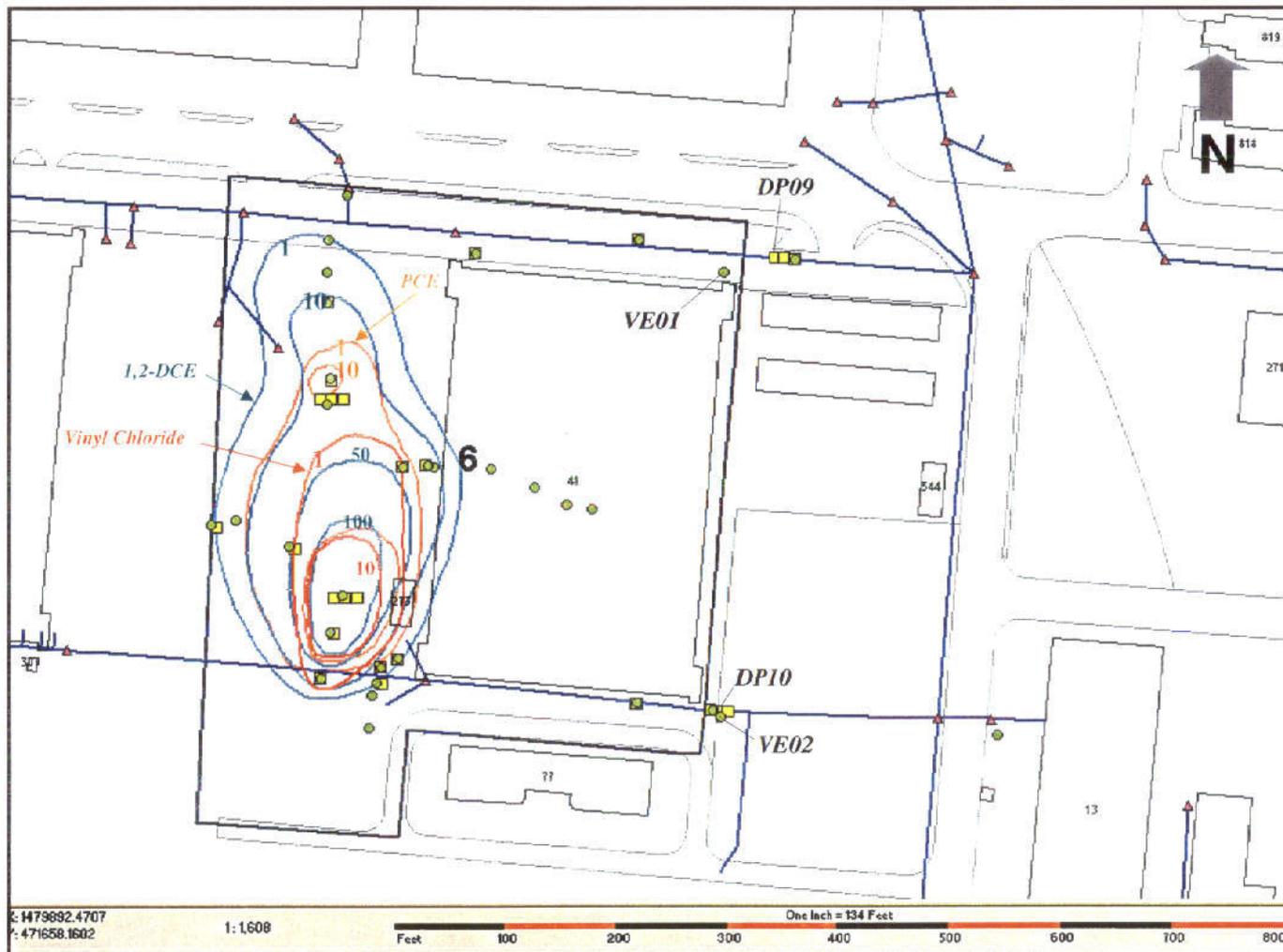
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Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter ( $\mu\text{g/L}$ )

**Figure 6. Site 5: Total Petroleum Hydrocarbons (TPHs) & Volatile Organic Compounds (VOCs) Pre-Data Gap Sampling - Groundwater Iso-concentration Contours Sample Locations S05-DGS-VE02 and S05-DGS-DP30**

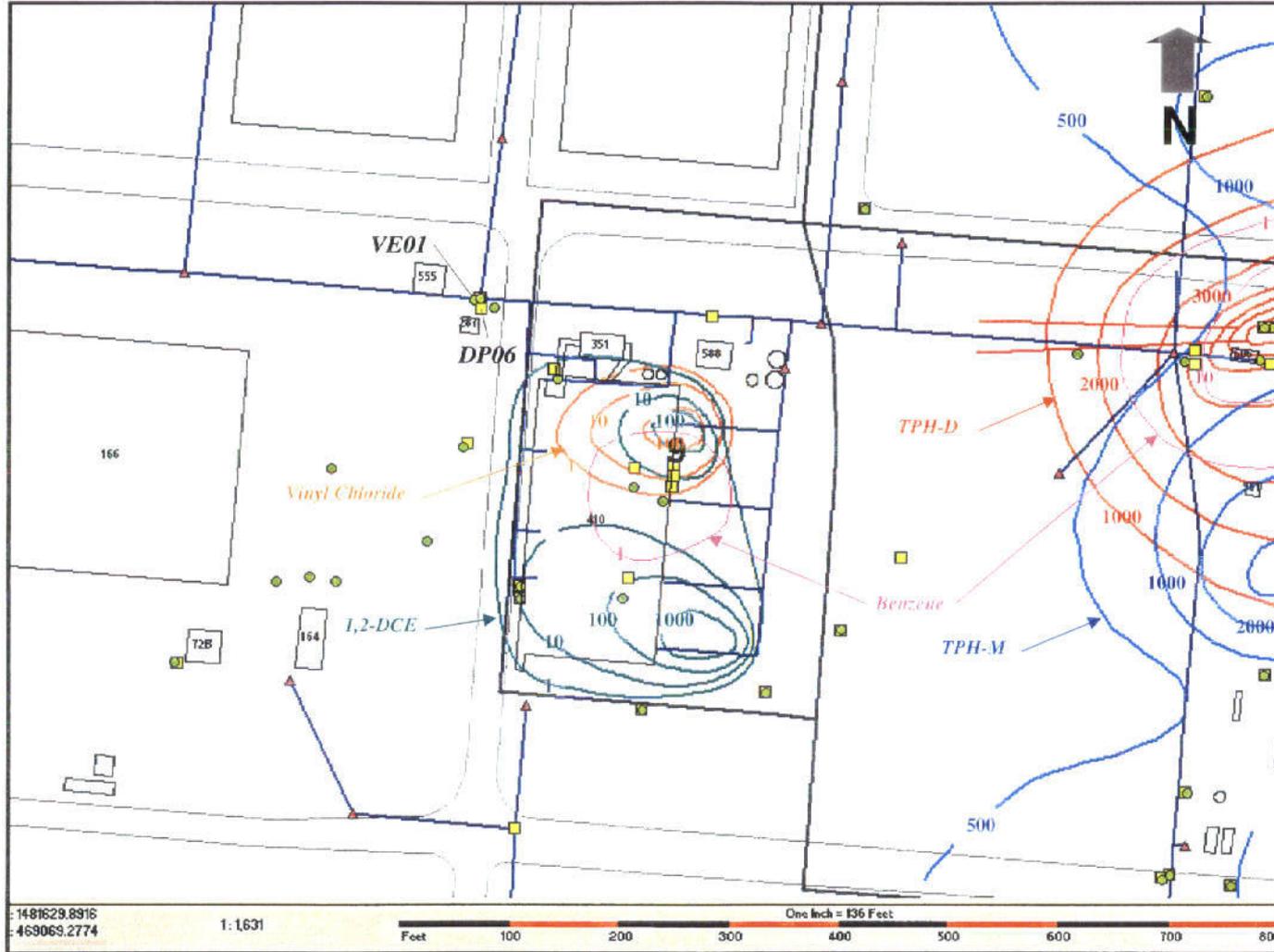
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Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter (µg/L)

Figure 7. Site 6: Volatile Organic Compounds (VOCs)  
Pre-Data Gap Sampling - Groundwater Iso-concentration Contours  
Sample Locations S06-DGS-VE01/VE02 and S13-DGS-DP09/DP10

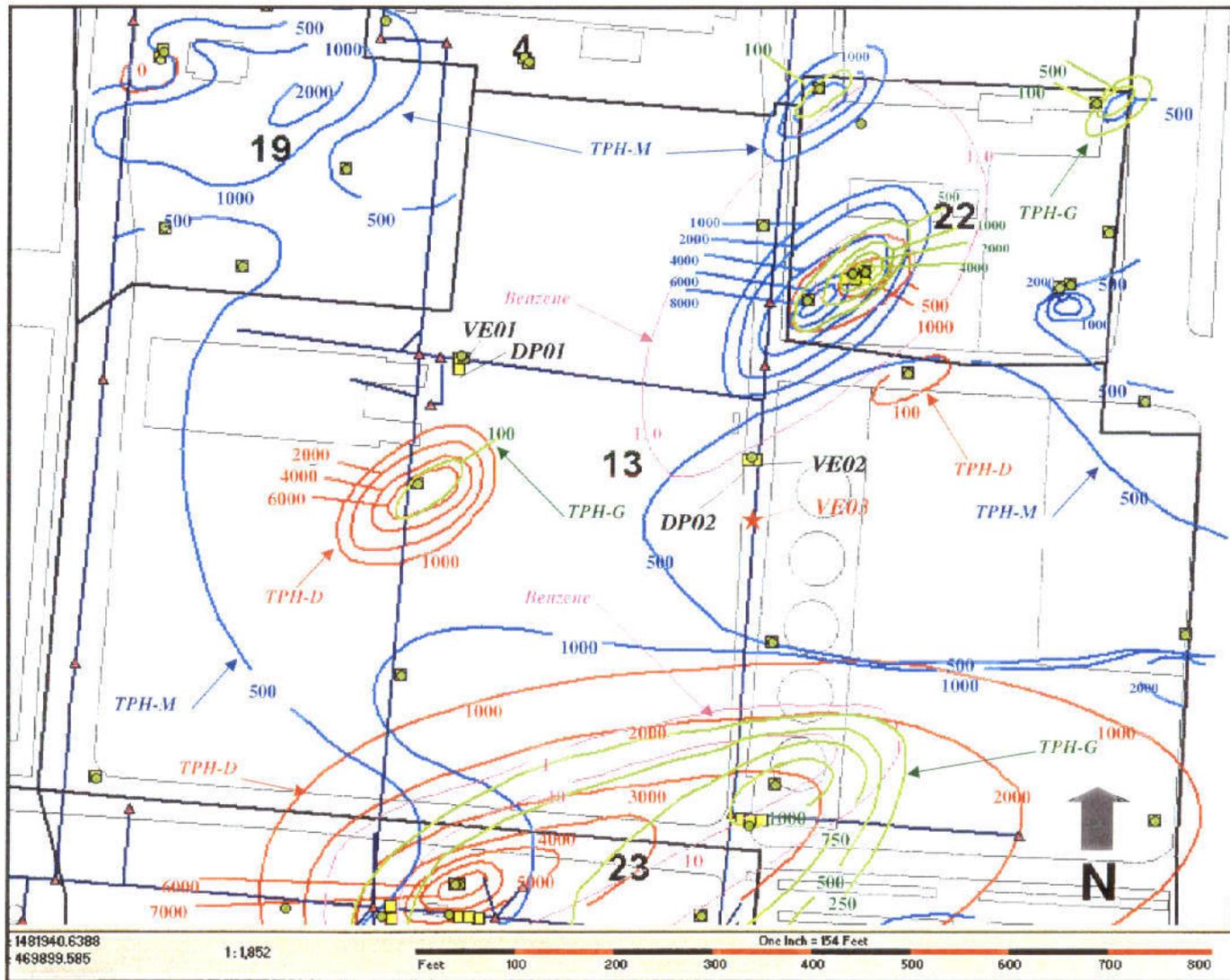
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Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter (µg/L)

**Figure 8. Site 9: Total Petroleum Hydrocarbons (TPHs) & Volatile Organic Compounds (VOCs) Pre-Data Gap Sampling - Groundwater Iso-concentration Contours Sample Locations S09-DGS-VE01 and S09-DGS-DP06**

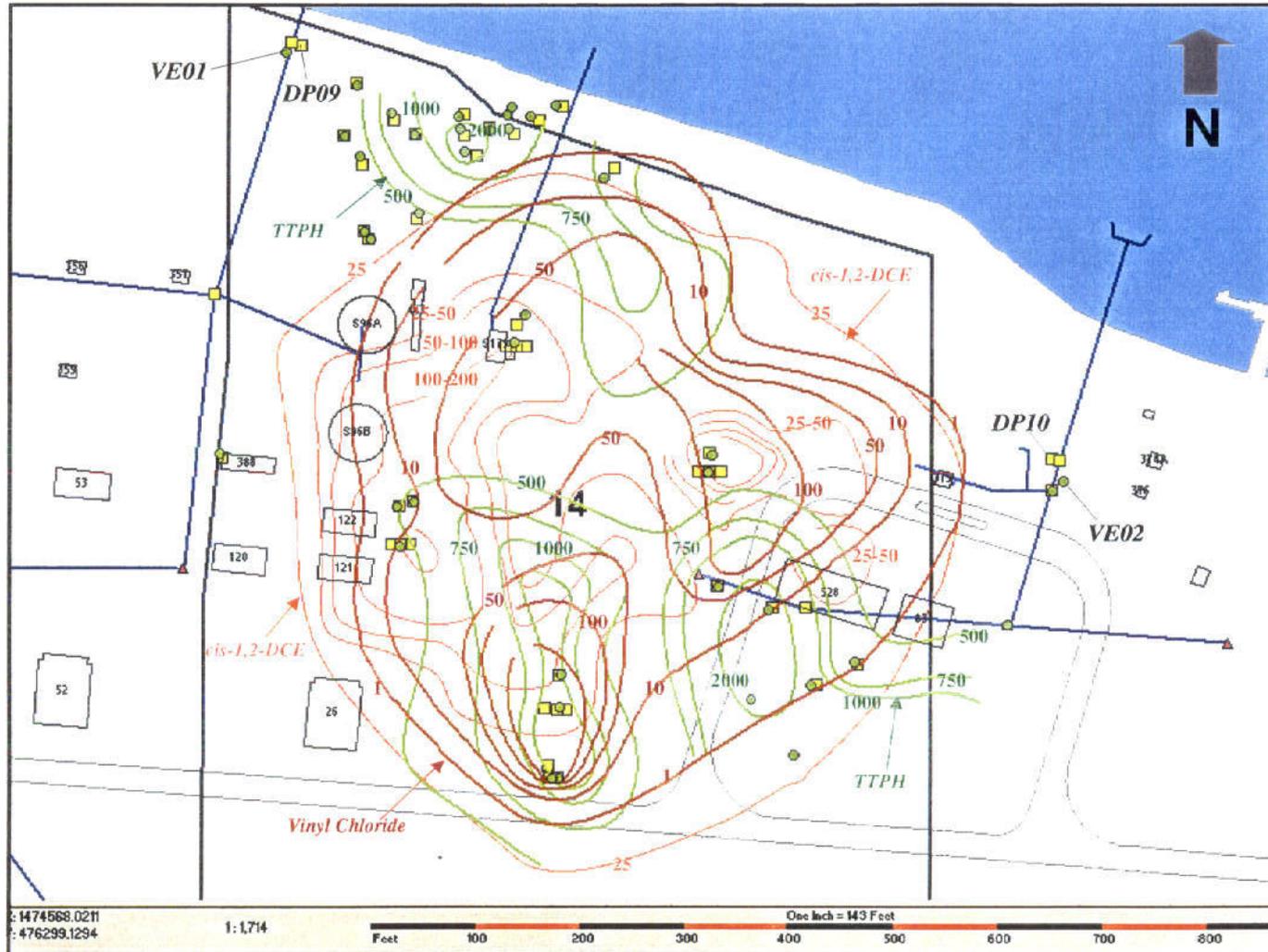
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Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter ( $\mu\text{g/L}$ )

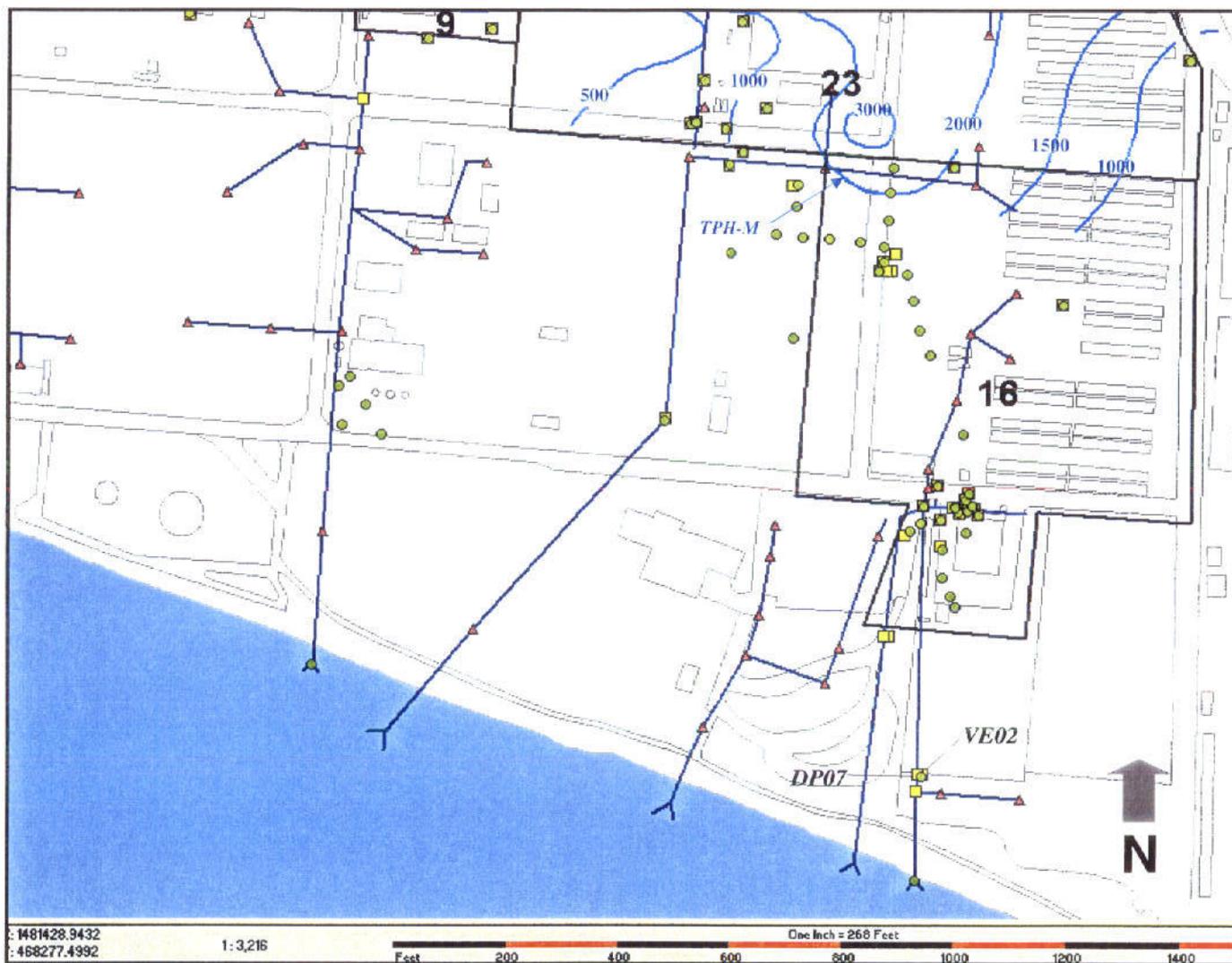
**Figure 9.** Site 13: Total Petroleum Hydrocarbons (TPHs)  
Pre-Data Gap Sampling - Groundwater Iso-concentration Contours  
Sample Locations S13-DGS-VE01/VE02 and S13-DGS-DP01/DP02

DS.0385.15645



Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter (µg/L);  
 TPH = Total total petroleum hydrocarbons

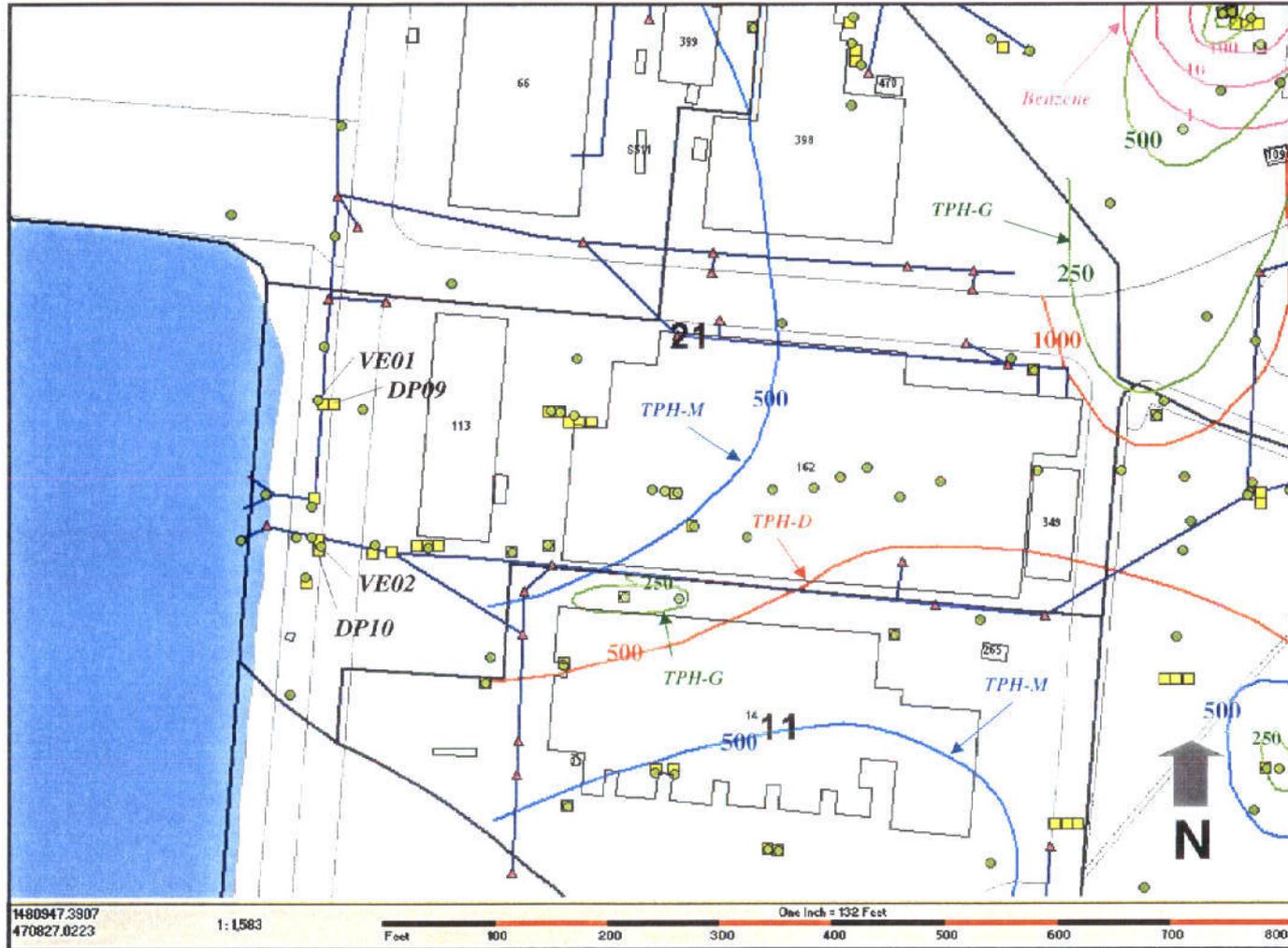
**Figure 10. Site 14: Total Petroleum Hydrocarbons (TPHs) & Volatile Organic Compounds (VOCs) Pre-Data Gap Sampling - Groundwater Iso-concentration Contours Sample Locations S14-DGS-VE01/VE02 and S14-DGS-DP09/DP10**



Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter ( $\mu\text{g/L}$ )

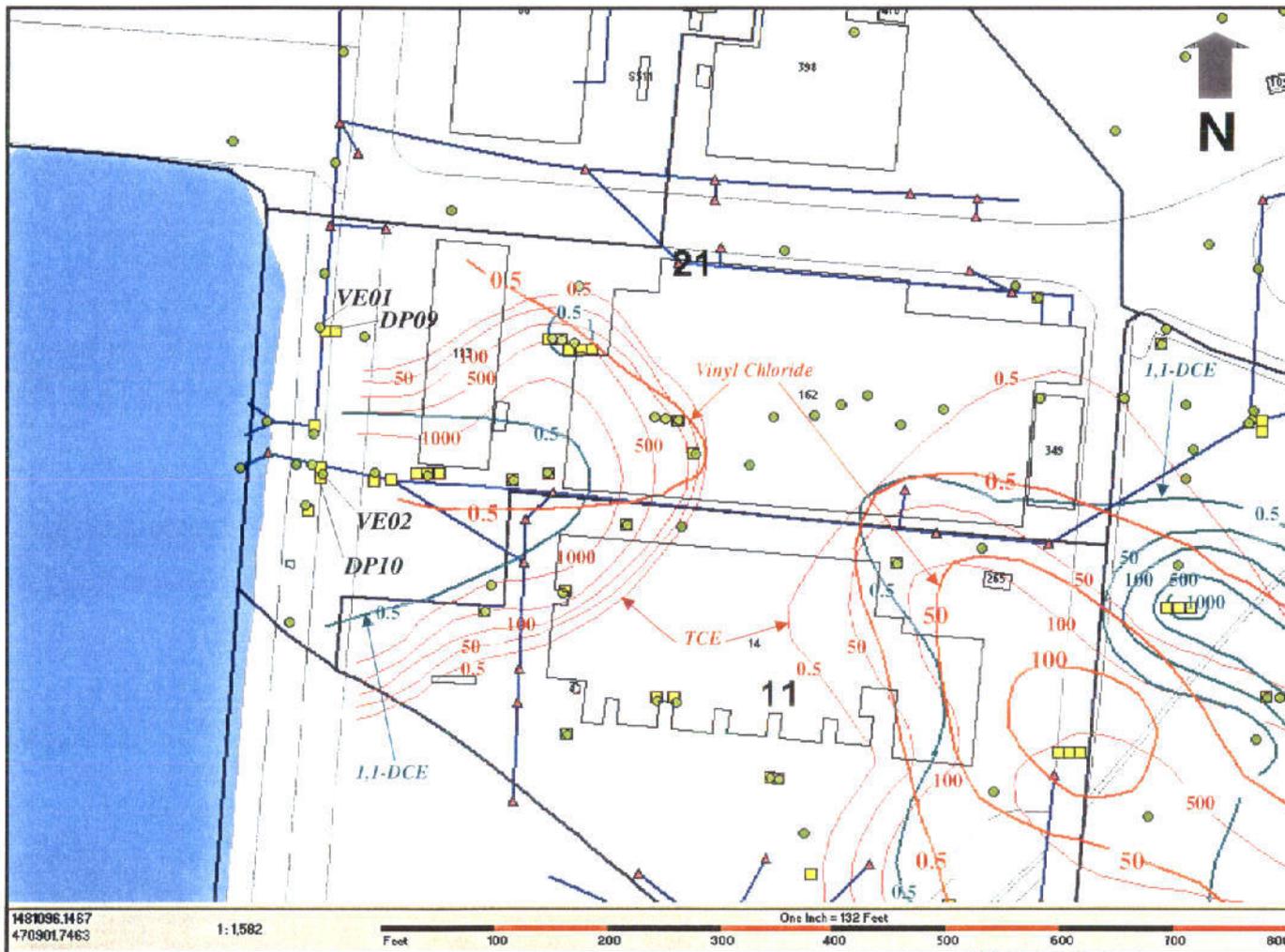
**Figure 11. Site 16: Total Petroleum Hydrocarbons (TPHs)  
Pre-Data Gap Sampling - Groundwater Iso-concentration Contours  
Sample Locations S16-DGS-VE02 and S16-DGS-DP07**

DS.0385.15645



Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter (µg/L)

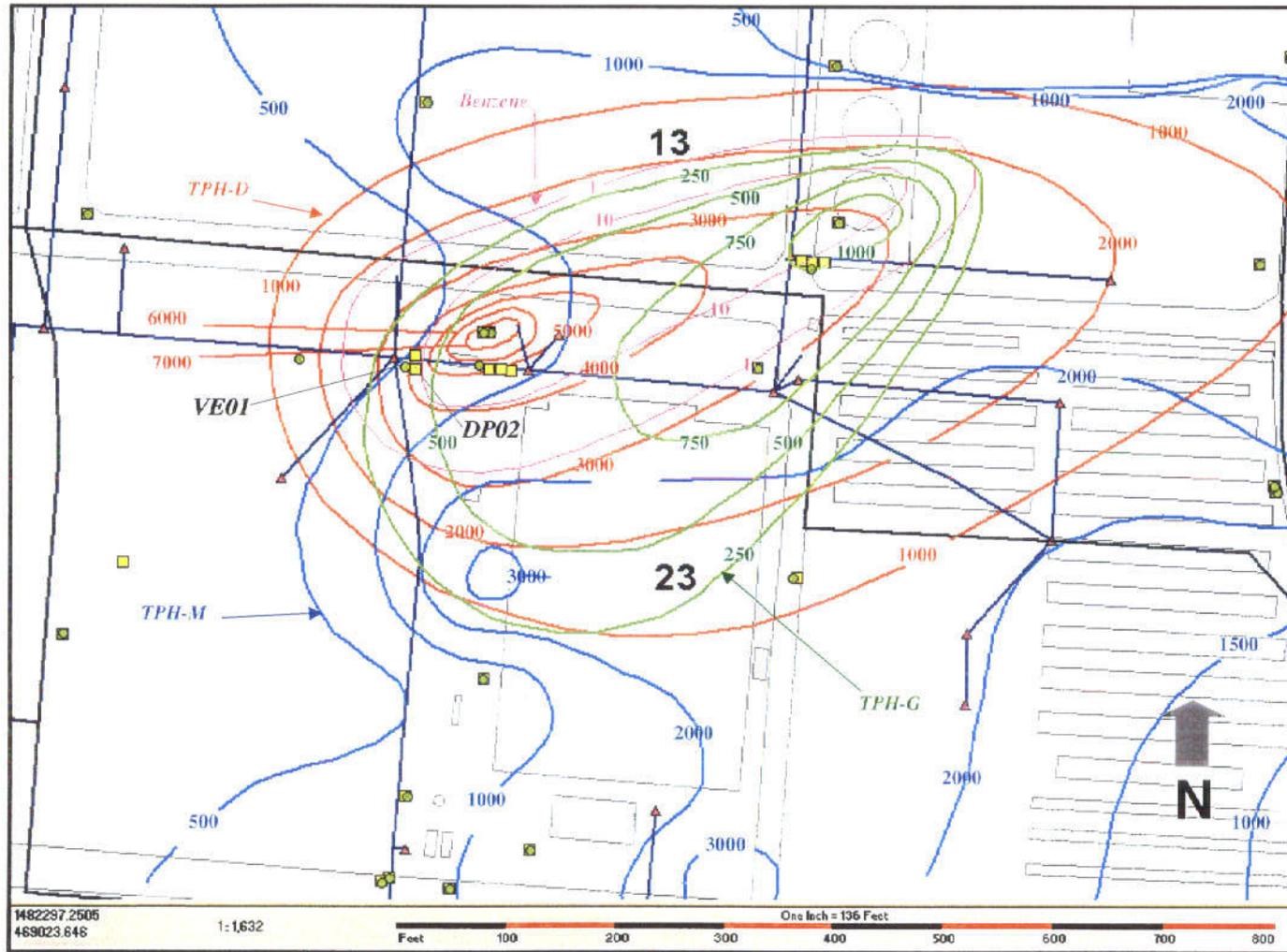
Figure 12. Site 21: Total Petroleum Hydrocarbons (TPHs)  
Pre-Data Gap Sampling - Groundwater Iso-concentration Contours  
Sample Locations S21-DGS-VE01/VE02 and S21-DGS-DP09/DP10



Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter (µg/L)

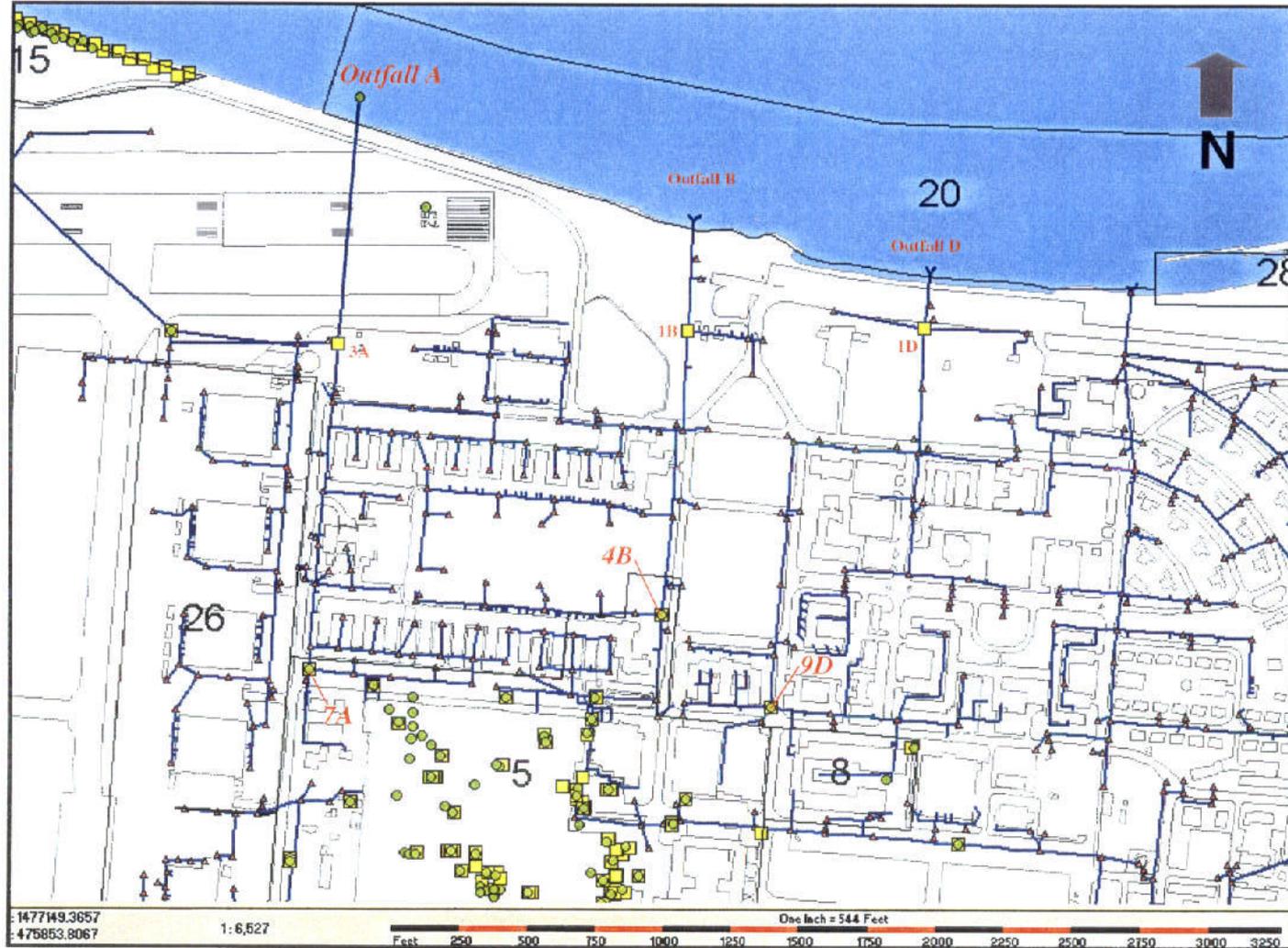
**Figure 13. Site 21: Volatile Organic Compounds (VOCs)  
Pre-Data Gap Sampling - Groundwater Iso-concentration Contours  
Sample Locations S21-DGS-VE01/VE02 and S21-DGS-DP09/DP10**

DS.0385.15645



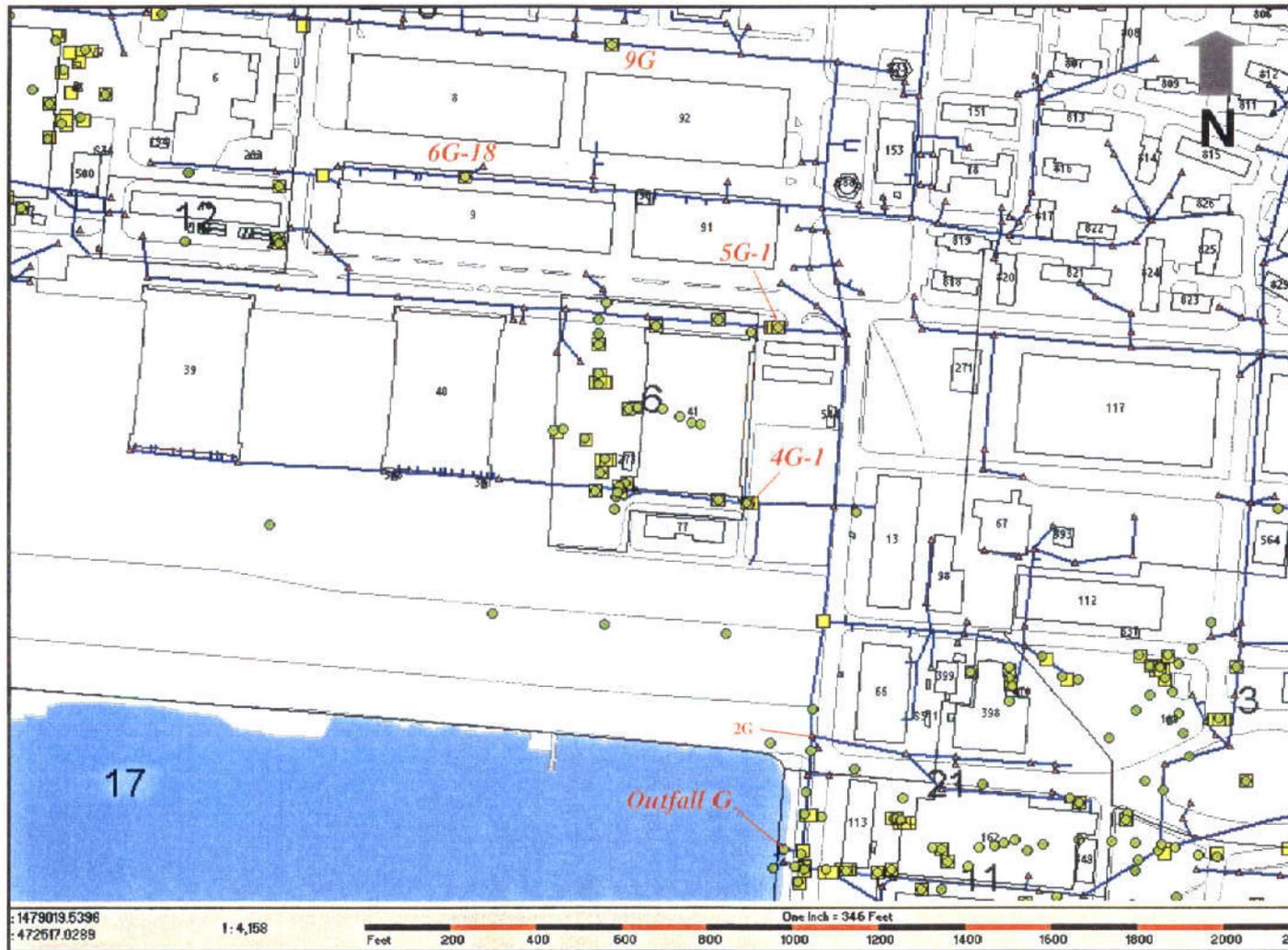
Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins; Contour values are in micrograms per Liter (µg/L)

**Figure 14. Site 23: Total Petroleum Hydrocarbons (TPHs)  
Pre-Data Gap Sampling - Groundwater Iso-concentration Contours  
Sample Locations S23-DGS-VE01 and S23-DGS-DP02**



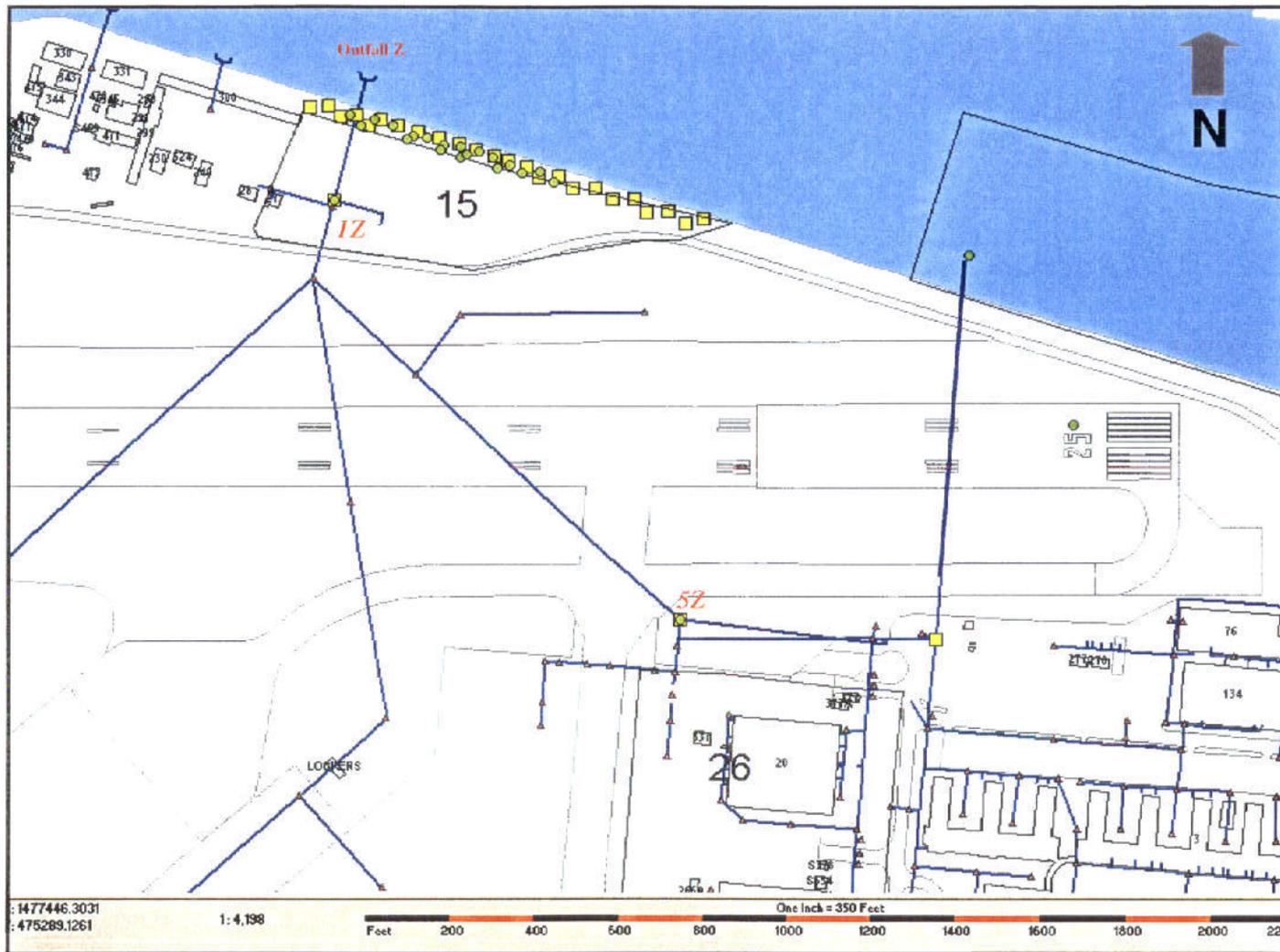
Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins  
 \* Infiltration Storm Sewer samples that were actually collected (due to low tide exposures, presence of water in manholes or catch basins) are highlighted in *italics* with larger font

**Figure 15. Site 5 (Northern Area): Storm Sewer Water Sample Locations  
 Groundwater Infiltration Evaluation  
 Locations 7A, Outfall A; 4B, 1B, Outfall B; 9D, 1B, and Outfall D**



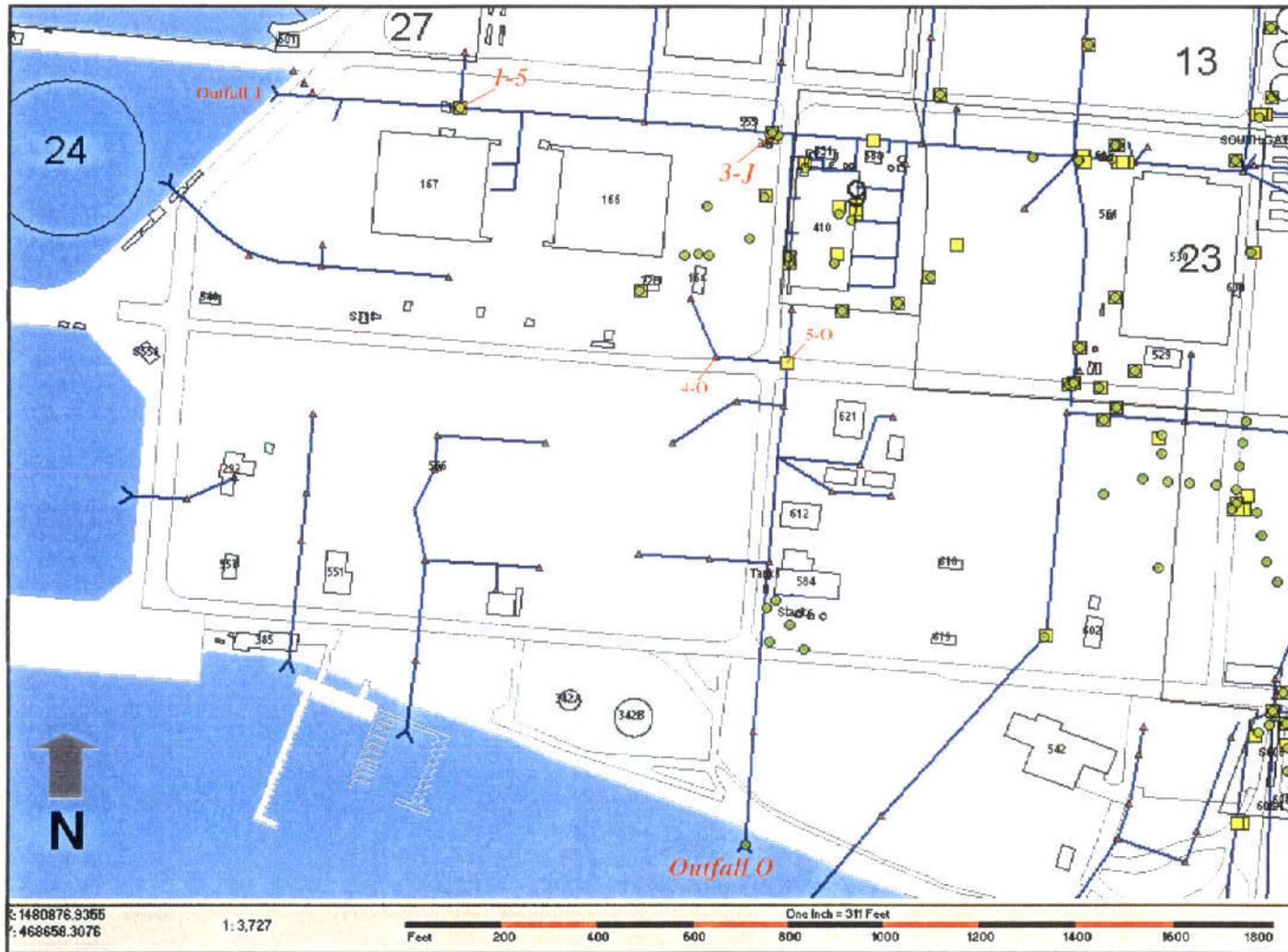
Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins  
 \* Infiltration Storm Sewer samples that were actually collected (due to low tide exposures, presence of water in manholes or catch basins) are highlighted in *italics* with larger font

**Figure 16. Site 5 (through Sites 6 and 21): Storm Sewer Water Sample Locations  
 Groundwater Infiltration Evaluation  
 Locations 9G, 6G-18, 5G-1, 4G-1, 2G, and Outfall G**



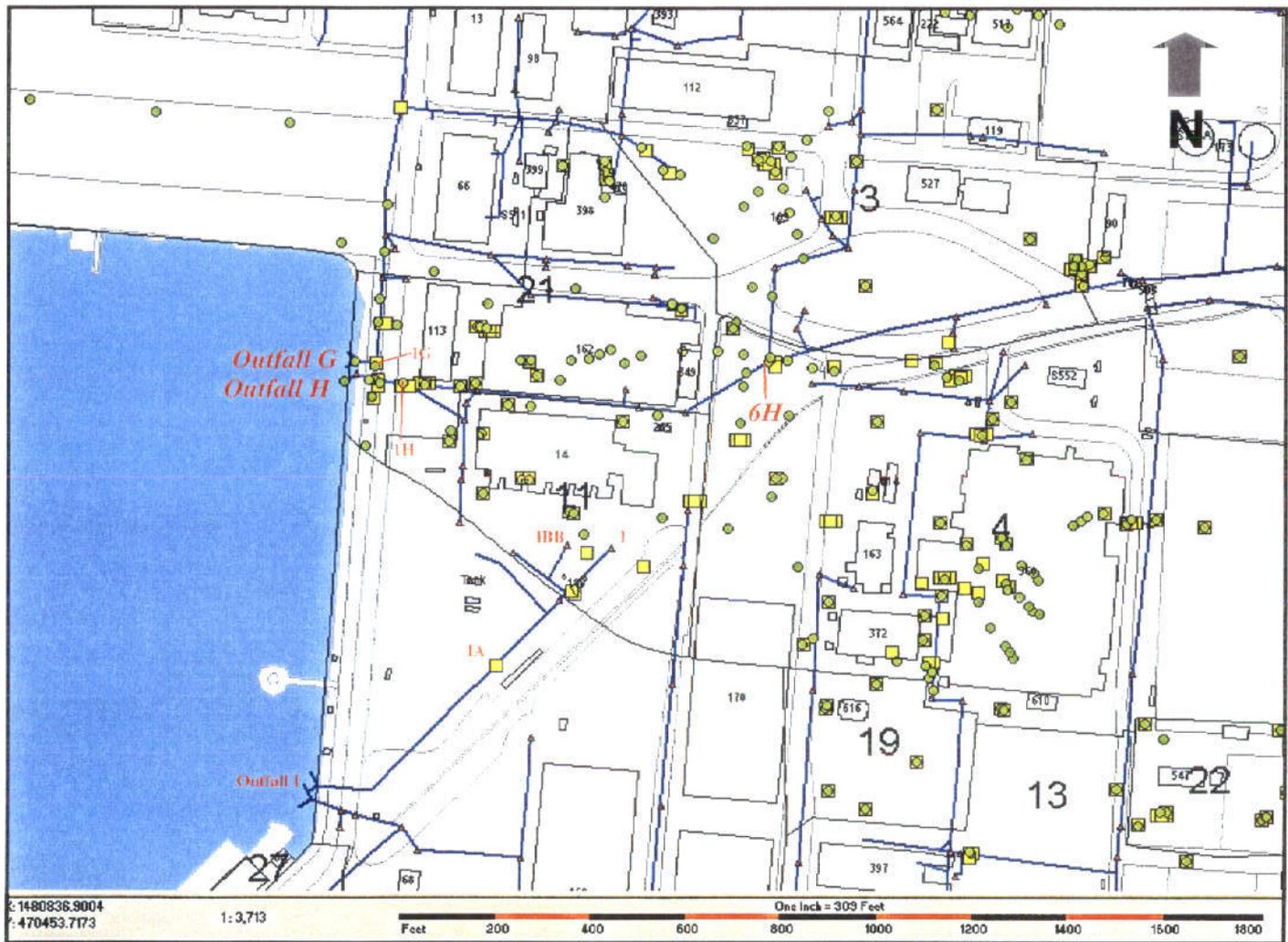
Notes: ● & ◻ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins  
 \* Infiltration Storm Sewer samples that were actually collected (due to low tide exposures, presence of water in manholes or catch basins) are highlighted in *italics* with larger font

**Figure 17. Site 5 (through Site 15): Storm Sewer Water Sample Locations  
 Groundwater Infiltration Evaluation  
 Locations 5Z, 1Z, and Outfall Z**



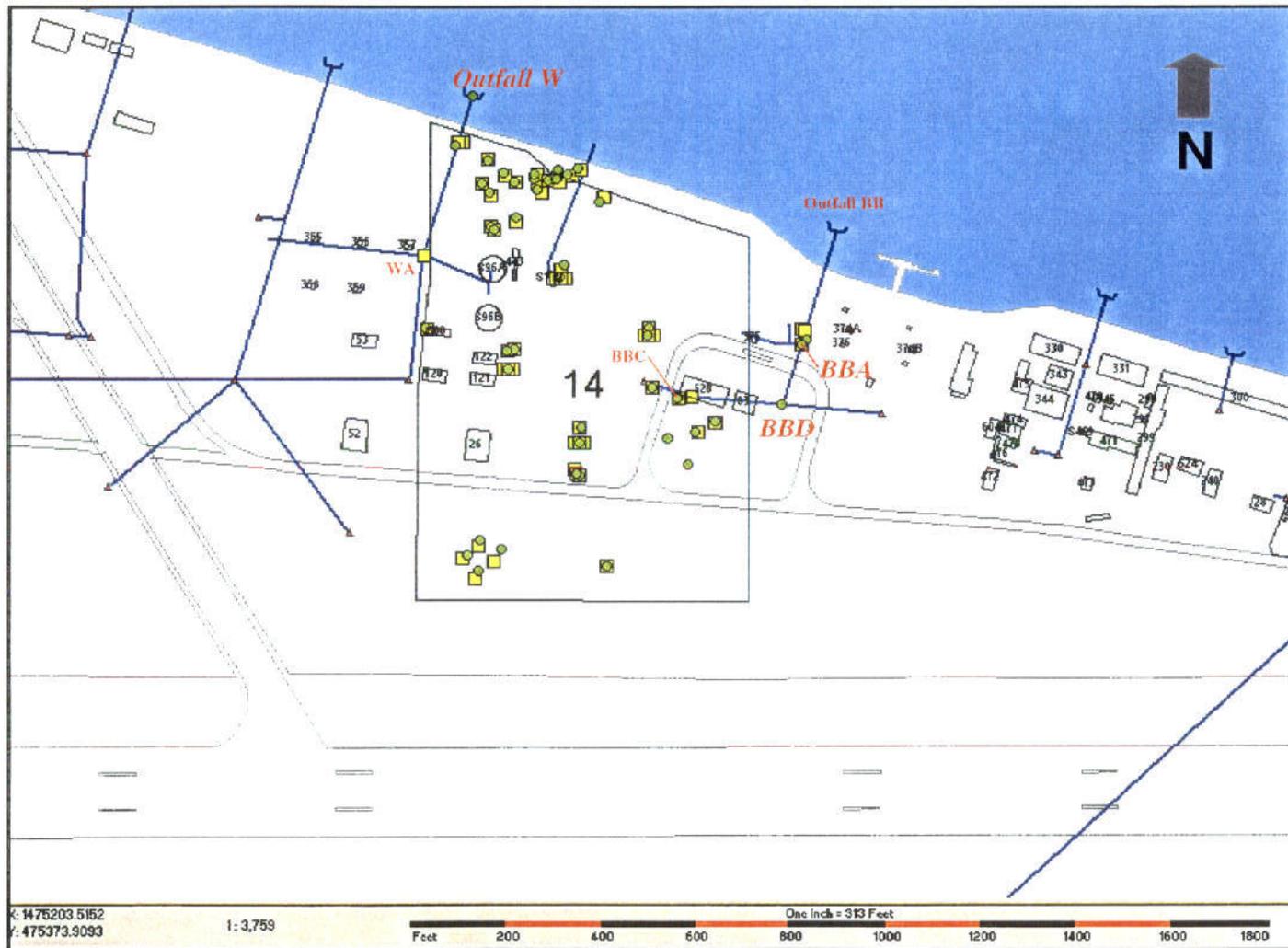
Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins  
 \* Infiltration Storm Sewer samples that were actually collected (due to low tide exposures, presence of water in manholes or catch basins) are highlighted in *italics* with larger font

**Figure 18. Site 9: Storm Sewer Water Sample Locations  
 Groundwater Infiltration Evaluation  
 Locations 3-J, 1-5, Outfall J; 5-O, 4-O, and Outfall O**



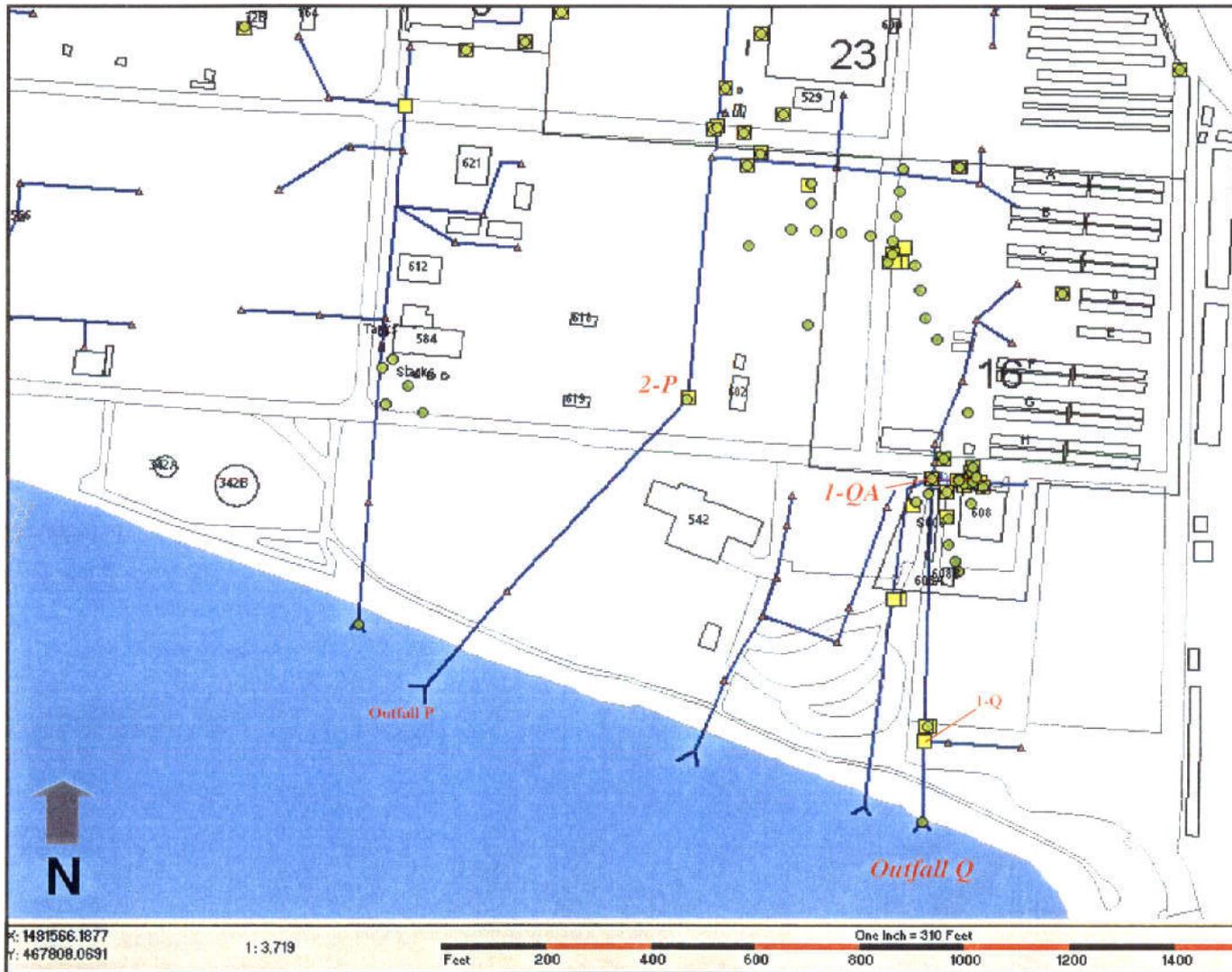
Notes: ● & ◻ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins  
 \* Infiltration Storm Sewer samples that were actually collected (due to low tide exposures, presence of water in manholes or catch basins) are highlighted in *italics* with larger font

**Figure 19. Sites 11 & 21: Storm Sewer Water Sample Locations  
 Groundwater Infiltration Evaluation  
 Locations 1G, Outfall G; 6H, 1H, Outfall H; I, IBB, IA, and Outfall I**



Notes: ● & ◻ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins  
 \* Infiltration Storm Sewer samples that were actually collected (due to low tide exposures, presence of water in manholes or catch basins) are highlighted in *italics* with larger font

**Figure 20. Site 14: Storm Sewer Water Sample Locations  
 Groundwater Infiltration Evaluation  
 Locations WA, Outfall W; BBD, BBC, BBA, and Outfall BB**



Notes: ● & ■ = Data Gap Sample locations; ▲ = Storm Sewer Manholes/Catch Basins

\* Infiltration Storm Sewer samples that were actually collected (due to low tide exposures, presence of water in manholes or catch basins) are highlighted in *italics* with larger font

**Figure 21. Sites 16 & 23: Storm Sewer Water Sample Locations  
 Groundwater Infiltration Evaluation  
 Locations 2-P, Outfall P; 1-QA, 1-Q, and Outfall Q**

## **TABLES**

**TABLE 1  
INFILTRATION SAMPLING SUMMARY  
ALAMEDA POINT  
(Page 1 of 3)**

Lab ID	Field ID	Original Location	Sampled Location	Outfall	Contingent	OU	Possible Source	Sampling Rationale	Procedure	Sampling Instructions	Sampling Notes	Flow Rate	Lab	VOC	TPPH	TEPH	SVOC	Other Analyses	Date Sampled (Time)
<b>Site 5</b>																			
385-S05-125	S05-DGS-OF-A-GWI	3A	Outfall A	A	P	OU -2C	Parcel 37, IR-5, OU-6	See Note(1), (2).	B1	See Note(3); do not plug any lines; may sample outfall A as preferred alternative if invert exposed.	Outfall A invert was exposed at low tide and sampled.	75 liters/min.	Fixed	x	x	x			7/20/2001 (0715)
385-S05-126	S05-DGS-MH-7A-GWI	7A	7A	A	P	OU -2C	IR 5	See Note(1).	B1	Sample outflow of 7A, do not plug any lines.	Sampled at mouth of outflow pipe at 7A.	5 liters/min.	Fixed	x	x	x			7/24/2001 (1014)
385-S05-127	S05-DGS-MH-4B-GWI	4B	4B	B	P w/ C	OU -2C	IR-5	See Note(1).	B1	Sample outflow of 4B, do not plug any lines; if exceeds ERG, sample 1B.	No ERG exceedances : VOC =ND; TPHg = ND; TPHd = ND; TPHmo = ND.	0.2 liters/min.	Mobile	x	x	x			7/20/2001 (0805)
385-S05-132	S05-DGS-MH-1B-GWI	1B	None	B	C	OU -2C	IR 5	See Note(2).	B2	Sample if 4B is above ERV; sample flow in line from south; may sample outfall B as preferred alternative if invert exposed.	4B did not exceed ERGs.	Not Sampled	Fixed	x	x	x			None
385-S05-128	S05-DGS-MH-9D-GWI	9D	9D	D	P w/ C	OU -2C	IR 5, 8	See Note(1).	B1	See Note(3); Sample outflow of 9D, do not plug any lines; if exceeds ERG, sample 1D.	No ERG exceedances : VOC =ND; TPHg = ND; TPHd = ND; TPHmo = ND.	0.5 liters/min.	Mobile	x	x	x			7/20/2001 (0900)
385-S05-133	S05-DGS-MH-1D-GWI	1D	None	D	C	OU -2C	IR 8 and IR 5	See Note(2).	B2	See Note(3), sample if 9D is above ERV; sample flow in line from south; may sample outfall D as preferred alternative if invert exposed.	9D did not exceed ERGs.	Not Sampled	Fixed	x	x	x			None
385-S05-129	S05-DGS-MH-6G-18-GWI	6G-18	6G-18	G	P w/ C	OU -2C	IR-5	See Note(1).	B1	Sample outflow of 6G-18, do not plug any lines; if exceeds ERG, sample 2G.	Very low flow entering manhole from the west pipe was sampled. No ERG exceedances : VOC =ND; TPHg = ND; TPHd = ND; TPHmo = ND.	0.25 liters/min.	Mobile	x	x	x			7/20/2001 (0835)
385-S05-130	S05-DGS-MH-9G-GWI	9G	9G	G	P w/ C	OU -2C	IR 5, 8	See Note(1).	B1	See Note(3); Sampled incoming flow; if exceeds ERG, sample 2G.	No ERG exceedances : VOC =ND; TPHg = ND; TPHd = ND; TPHmo = ND.	0.8 liters/min.	Mobile	x	x	x			7/13/2001
385-S05-134	S05-DGS-MH-2G-GWI	2G	None	G	C	OU -2C	IR 5, 6, 8, OU-2B	See Note(2).	B2	See Note(3), sample if 4G-1, 5G-1, 6G-18 or 9G are above ERV; Sample incoming flow from north.	4G-1, 5G-1, 6G-18 or 9G did not exceed ERGs.	Not Sampled	Fixed	x	x	x			None
385-S05-131	S05-DGS-CB-5Z-GWI	5Z	5Z	Z	P w/ C	OU -2C	IR 5, Parcel 37	See Note(1).	B1	See Note(3); Sample incoming flow from east; if exceeds ERG, sample 1Z.	No ERG exceedances.	0.25 liters/min.	Mobile	x	x	x			7/20/2001
385-S05-135	S05-DGS-CB-1Z-GWI	1Z	1Z	Z	C	OU -2C	Parcel 37, IR-5, OU-6	See Note(2).	B2	See Note(3), sample if 5Z is above ERV.	Sampled incoming flow from south.	124 liters/min.	Fixed	x	x	x			7/13/2001
<b>Site 6</b>																			
385-S06-029	S06-DGS-MH-4G-1-GWI	4G-1	4G-1	G	P w/ C	OU-1	Site 6	Immediately downstream of plume.	B1	If exceeds ERG, sample 2G.	No flow from shallow pipe from south. No ERG exceedances : VOC = ND; TPHg = ND; TPHd = ND; TPHmo = ND.	7 liters/min.	Mobile	x	x	x			7/20/2001 (0742)
385-S06-030	S06-DGS-MH-5G-1-GWI	5G-1	5G-1	G	P w/ C	OU-1	Site 6	Immediately downstream of plume.	B1	If exceeds ERG, sample 2G.	No ERG exceedances : VOC = 1.9 ppb cis-1,2 DCE; TPHg = ND; TPHd = ND; TPHmo = ND.	4 liters/min.	Mobile	x	x	x			7/20/2001 (0801)

**TABLE 1  
INFILTRATION SAMPLING SUMMARY  
ALAMEDA POINT  
(Page 2 of 3)**

Lab ID	Field ID	Original Location	Sampled Location	Outfall	Contingent	OU	Possible Source	Sampling Rationale	Procedure	Sampling Instructions	Sampling Notes	Flow Rate	Lab	VOC	TPPH	TEPH	SVOC	Other Analyses	Date Sampled (Time)
<b>Site 9</b>																			
385-S09-035	S09-DGS-MH-1-5-GWI	1-5	1-5	J	C	OU -2A	OU-2A	See Note(2); Do not plug any incoming lines. sample inflow line at 1-5.	B2	See Note(4), sample if 3-J is above ERV.	Obvious sheen on flowing water. Due to obvious sheen, manhole 1-5 was sampled irregardless of sampling results at upstream manhole 3-J. Sample pumped from about 1 inch below surface.	71 liters/min.	Fixed	x			x	*	7/24/2001 (0944)
385-S09-036	S09-DGS-MH-3-J-GWI	3-J	3-J	J	P	OU -2A	IR 4, 9, 13, 19, 22, 23	See Note(1); Do not plug any incoming lines, sample outflow of 3-J.	B1	See Note(3), (4).	Obvious oil sheen on water flowing in from east; low flow (4 liters/min.) from west is clear [no sheen]. Collected sample from mouth of outflow pipe (towards outfall).	245 liters/min.	Fixed	x			x	*	7/20/2001 (0935)
385-S09-037	S09-DGS-MH-5-O-GWI	5-O	Dry; No sample	O	P	OU -2A	IR 9	Upper area of outfall system within plume areas. see Note(1).	B1	See Note(4).	Catch basin 5-O was dry on 7/15/01. Adjacent catch basins 4-O and 5-OA had stagnant water trapped in the bottom, well below the level of the outflow lines, and were not sampled. Because there is no infiltration into the upper area of system within the plume no sampling of the lower system or outfall was initially conducted.	Dry (7/15/01)	Fixed	x			x	*	not sampled
385-CAA9A-011	CAA9A-DGS-OF-O-GWI	--	Outfall O	O	P	OU -2A	IR 9	See Note(1), (2).	B2	See Note(2).	Catch basin 5-O was dry on 7/15/01. Adjacent catch basins 4-O and 5-OA had stagnant water trapped in the bottom, well below the level of the outflow lines, and were not sampled. Sampling of the outfall was subsequently conducted on 10/15/01.	--	Fixed	x	x	x		*	10/15/2001
<b>Site 11</b>																			
385-S11-017	S11-DGS-MII-IA-GWI	IA	Not found	I	P	OU -2B	IR Sites 11 and 21, Parcel 138	See Note(1), (2) (4).	B1	Contaminant plume poorly defined, so "IA" and the entire subsystem "I" may be within plume; do not plug any lines; may sample outfall I as preferred alternative if invert exposed.	Catch basin was not found and was reported by IT as paved over. Adjacent catch basins IBB and I are shallow (3 feet) and dry and do not appear to collect groundwater. Outfall I could not be found and pavement patch crossing street at the mapped location of outfall I suggests it has been removed.	No Sample	Fixed	x	x	x			Not found 7/23/2001
<b>Site 14</b>																			
385-S14-56	S14-DGS-OF-W-GWI	WA	W	W	P	OU-1	Site 14	Outfall immediately downstream of plume	B1	May sample outfall W instead of WA if exposed at low tide.	Search with line finder could not locate catch basin WA however, the outfall W invert was exposed at low tide and outflowing water was sampled.	2 liters/min.	Fixed	x	x	x			7/12/2001
385-S14-58	S14-DGS-CB-BBA-GWI	BBA	BBA	BB	C	OU-1	Site 14	See Note(2).	B2	See Note(2).	Additional infiltration [more flow] was apparent in pipe section BBD-BBA so flow was sampled at manhole BBA irregardless of BBD sampling results.	2 liters/min.	Fixed	x	x	x			7/12/2001
385-S14-59	S14-DGS-CB-BBD-GWI	BBC	BBD	BB	P w/ C	OU-1	Site 14	Immediately downstream of plume.	B1	See Note(1).	No flow at BBC however slight infiltration was seen at catch basin BBD coming from west (pipe section BBC-BBD) and was sampled at mouth of incoming pipe.	0.25 liters/min.	Fixed	x	x	x			7/12/2001

**TABLE 1  
INFILTRATION SAMPLING SUMMARY  
ALAMEDA POINT  
(Page 3 of 3)**

Lab ID	Field ID	Original Location	Sampled Location	Outfall	Contingent	OU	Possible Source	Sampling Rationale	Procedure	Sampling Instructions	Sampling Notes	Flow Rate	Lab	VOC	TPPH	TEPH	SVOC	Other Analyses	Date Sampled (Time)
<b>Site 16</b>																			
385-S16-024	S16-DGS-CB-1-QA-GWI	1-QA	1-QA	Q	P	OU-1	Site 16	Immediately downstream of plume.	B1	Do not plug any inlets to 1-QA; all incoming lines within plume.	Manhole vault is deep and all pipes contain water even at lowest tide, however, observable flow is entering from north and flowing out south toward outfall Q (no outflow at outfall Q1).	9 liters/min.	Fixed	x	x	x			7/23/2001 (0838)
385-S16-025	S16-DGS-OF-Q-GWI	1Q	Q	Q	P	OU-1	Site 16	See Note(2).	B2	May sample outfall Q instead of 1Q if invert is exposed at low tide.	Outfall Q invert was exposed at low tide and sampled.	8 liters/min.	Fixed	x	x	x			7/23/2001 (0915)
<b>Site 21</b>																			
385-S21-035	S21-DGS-OF-G-GWI	1G	Outfall G	G	P	OU -2B	IR Sites 3 and 21	See Note(1), (2).	B1	See Note(3), (4); plug line from north at 2G; may sample outfall G as preferred alternative if invert exposed.	Outfall G invert was exposed at low tide and sampled.	120 liters/min.	Fixed	x	x	x			7/20/2001 (0654)
385-S21-034	S21-DGS-OF-H-GWI	1-H	Outfall H	H	P	OU -2B	IR Sites 3 and 21	See Note(1), (2).	B1	See Note(3), (4); do not plug lines into 1-H manhole; may sample outfall H as preferred alternative if invert exposed.	Outfall H invert was exposed at low tide and sampled.	120 liters/min.	Fixed	x	x	x			7/20/2001 (0700)
385-S21-046	S21-DGS-MH-6H-GWI	6H	6H	H	P	OU -2B	CAA 3B and 3C	See Note(1).	B1	At 6H sample flow only from line coming from 7H-4 (exclude water from 6H-1 line) and plug line coming from south at 7H-4.	Flow from 7H-4 and 6H-1 pipes both cascading into manhole 6H. No flow in pipe coming from south at 7H-4 so no plug was needed. Sample collected in 6H from @ 3 feet inside pipe from 7H-4.	12 liters/min.	Fixed	x	x	x			7/23/2001 (1004)
<b>Site 23</b>																			
385-S23-016	S23-DGS-MH-2-P-GWI	2-P	2-P	P	P	OU -2A	IR 23	Upper area of outfall system within plume areas, see Note(1), (2).	B1		Sampled seepage into catch basin flowing out downstream line, no flow from upstream line.	1 liters/min.	Fixed	x	x	x	x	*	7/15/2001

Notes:

- (1) Assess contaminant transport out of plume areas
- (2) Assess contaminant concentrations reaching San Francisco Bay
- (3) No sampling locations at MH or CB downstream of plume area, prior to outfall
- (4) Multiple areas of groundwater contamination may be contributing to contamination at sample location

P Primary sample  
P w/ C Primary sample with contingency sampling if ERVs exceeded  
C Contingent on exceedance of ERVs at upstream location(s)  
Shade Sample not collected (see sampling notes for explanation)  
Shade Sample analyses with detects  
Shade Sample analyses with no detects

\* Groundwater samples submitted for SVOC analysis will be extracted for full-scan GC/MS (8270C) and selected ion monitoring GC/MS (8270SIM). If results for benzo(a)pyrene (BaP) by full-scan GC/MS are reported as non-detect at the 10 ug/L detection limit, then the 8270SIM extract will be analyzed in an attempt to meet the residential PRG of 0.2 ug/L for BaP.

**TABLE 2**  
**BEDDING MATERIALS PATHWAY AND DECISION PROCESS**  
**ALAMEDA POINT**

Site No.	Step 1				Step 2		Step 3		Comments
	Vacuum Extraction	Hyd. Cond. > or <	Direct Push	Evaluate?	GW COCs > MCLs/AWQCs/ERVs	Evaluate?	Step-out Sampling Downstream	Evaluate?	
4	S04-DGS-VE01 2.89 in/day	>	S04-DGS-DP22 0.02 in/day	Yes	TPH-Diesel: 240 µg/l, and TPH-Gasoline: 450 µg/l (1400) cis-1,2-DCE: 22 µg/l (6), TCE: 82 µg/l (5)	Yes	Step-out sample S04-DGS-VE03 collected 60 feet downstream from VE01. Cis-1,2-DCE and TCE were not detected above their reporting limit of 1µg/L.	No	
4	S04-DGS-VE02 4.08 in/day	>	S04-DGS-DP23 1.38 in/day	Yes	TPH-Motor oil: 510 µg/l (1400)	No			
5	S05-DGS-VE01 9.70 in/day	<	S05-DGS-DP29 9.94 in/day	No					
5	S05-DGS-VE02 2.72 in/day	<	S05-DGS-DP30 7.92 in/day	No					
6	S06-DGS-VE01 10.34 in/day	<	S06-DGS-DP09 12.91 in/day	No					
6	S06-DGS-VE02 9.53 in/day	<	S06-DGS-DP10 11.35 in/day	No					
9	S09-DGS-VE01 7.05 in/day	<	S09-DGS-DP06 19.62 in/day	No					
13	S13-DGS-VE01 11.69 in/day	>	S13-DGS-DP01 1.09 in/day	Yes	TPH-Motor oil: 1300 µg/l (1400)	No			
13	S13-DGS-VE02 6.20 in/day	>	S13-DGS-DP02 0.15 in/day	Yes	1,2-DCB: 0.4 µg/l (14), 1,4-DCB: 0.4 µg/l (15); Chlorobenzene: 0.6 µg/l (50); Xylene(s): 0.3 µg/l (13); TPH-Motor oil: 1900 µg/l (1400)	Yes	Step-out sample S13-DGS-VE03 to be collected during April 2002 field sampling event.	?	
13	S13-DGS-VE03 (no geotech sample collected)	n/a	n/a	Yes	TPH-Motor oil: 3800 µg/l (1400)	No			The concentration appears to be increasing with proximity to the TPH plumes associated with Site 23. No differentiation could be made between contamination associated with potential migration from Sites 13 and 22, and the TPH plume associated with Site 23.
14	S14-DGS-VE01 5.79 in/day	>	S14-DGS-DP09 3.92 in/day	Yes	M,p-xylene: 1 µg/l (13)	No			
14	S14-DGS-VE02 0.33 in/day	<	S14-DGS-DP10 2.13 in/day	No					
16	S16-DGS-VE02 10.51 in/day	<	S16-DGS-DP07 12.11 in/day	No					
21	S21-DGS-VE01 9.47 in/day	<	S21-DGS-DP09 12.94 in/day	No					TPH-Diesel: 1400 & 42000 µg/l, TPH-Gasoline: 1800 & 5180 µg/l, and TPH-Motor oil: 68,000 µg/l (1400); Vinyl chloride: 0.9 & 2 µg/l (0.5),
21	S21-DGS-VE02 2.77 in/day	<	S21-DGS-DP10 13.92 in/day	No					TPH-Gasoline: 12000 µg/l (1400)
23	S23-DGS-VE01 5.28 in/day	<	S23-DGS-DP02 12.61 in/day	No					TPH-Diesel: 2800 µg/l (1400); Vinyl chloride: 8.1 µg/l (0.5); 2-Methylnaphthalene: 21 µg/l (2.1)

AWQC = Ambient Water Quality Criteria  
COC = Chemical of Concern  
DCB = Dichlorobenzene  
DCE = Dichloroethene  
DGS = Data Gap Sampling  
DP = Direct push  
ERV = Ecological Reference Value  
GW = Groundwater  
> = Greater than

Hyd. Cond. = Hydraulic Conductivity  
in/day = Inches per day  
MCL = Maximum contaminant level  
µg/L = Micrograms per Liter  
TCE = Trichloroethene  
TPH = Total Petroleum Hydrocarbon  
VE = Vacuum extraction  
< = Less than  
e.g. (1400) = Value in ( ) is that analyte's MCL, AWQC, or ERV in µg/L

**TABLE 3**  
**INFILTRATION PATHWAY DECISION PROCESS**  
**ALAMEDA POINT**  
**(Page 1 of 3)**

Site No.	Outfall	Sample Loc	Step 1		Step 2		Step 3
			Investigate GW Infiltration Occurring in Damaged Storm Sewer Lines located just downstream from GW plumes	Evaluate?	Investigate last accessible MH or CB (or Outfall) closest to shoreline	Evaluate?	If Yes, then data will be evaluated under RI/FS remedial alternatives
			Are GW COCs > ERVs?		Are GW COCs > ERVs?		
5	A	7A	Chloroform: 0.4 µg/L (28); TPH-Motor oil: 740 µg/L (1400)	No			
	A	Outfall A			Though location 7A did not have COCs > ERVs, Outfall A was also sampled. Chloroform: 0.5 µg/L (28); TPH-Motor oil: 370 µg/L (1400)	No	
	B	4B		No	Location 1B & Outfall B were not sampled as location 4B had no detects.		
	D	9D		No	Location 1D & Outfall D were not sampled as location 9D had no detects.		
	G	6G-18		No	Though there were non-detects for TPHs and VOCs at locations 6G-18 (and 9G), Outfall G was sampled as part of the Site 21 sampling events (see below).		
	G	9G		No	As per 6G-18		
	Z	5Z		No	Outfall Z was not sampled as location 5Z had no detects.		
	Z	1Z		No	Outfall Z was not sampled as location 1Z had no detects.		
6	G	4G-1		No			
	G	5G-1	cis-1,2-DCE: 1.9 µg/L (590); total 1,2-DCE: 2 µg/L (590*); Bromoform: 1 µg/L (6400); Chloroform: 2 µg/L (28); TPH-Motor oil: 330 µg/L (1400)	No	Though GW COCs were < ERVs, Outfall G was sampled as part of the Site 21 sampling events (see below).		
9	J	3-J	1,1,1-TCA: 0.7 µg/L (62); 1,1-DCA: 0.8 µg/L (47); total 1,2-DCE: 3 µg/L (590*); Chlorobenzene: 0.6 µg/L (50); TCE: 0.7 µg/L (360); Vinyl chloride: 0.5 µg/L (782)	No	Outfall J was not sampled as location 3-J had no GW COCs that exceeded their ERVs.		
	J	1-5	1,2-DCA: 1 µg/L (47); 1,4-DCB: 0.5 µg/L (15); 1,1,1-TCA: 2 µg/L (62); 1,1-DCA: 0.8 µg/L (47); total 1,2-DCE: 5 µg/L (590*); Chlorobenzene: 0.5 µg/L (50); TCE: 2 µg/L (360); Vinyl chloride: 0.5 µg/L (782)	No	Outfall J was not sampled as location 1-5 had no GW COCs that exceeded their ERVs.		

**TABLE 3**  
**INFILTRATION PATHWAY DECISION PROCESS**  
**ALAMEDA POINT**  
 (Page 2 of 3)

Site No.	Outfall	Sample Loc	Step 1		Step 2		Step 3	
			Investigate GW Infiltration Occurring in Damaged Storm Sewer Lines located just downstream from GW plumes		Investigate last accessible MH or CB (or Outfall) closest to shoreline		If Yes, then data will be evaluated under RI/FS remedial alternatives	
			Are GW COCs > ERVs?	Evaluate?	Are GW COCs > ERVs?	Evaluate?		
9	O	Outfall O	Catch basin 5-0 was targeted for sampling was dry; other catch basins, 4-O and 5-OA had stagnant water below flow lines. Outfall O was sampled instead.	N/A	TPH-Motor oil: 650 µg/L (1400)	No		
11	I	-	Loc IA & Outfall I not found; Loc IBB & I dry and appear to be above GW.	No				
14	BB	BBD	TPH-Diesel: 240 µg/L (1400) Chlorobenzene: 0.3 µg/L (50)	No				
	BB	BBA	TPH-Diesel: 270 µg/L. TPH-Gasoline: 30 µg/L (1400 total)	No				
	W	Outfall W	Catch basin WA was originally targeted for sampling but could not be located at the surface. Outfall W was exposed and a water sample was collected there.	N/A	Outfall W had no detectable levels of TPH or VOCs.	No		
16	Q	1-QA	TPH-Motor oil: 740 mg/L (1400) total 1,2-DCE: 0.6 mg/L (590*)	No				
	Q	Outfall Q			Though GW COCs were < ERVs at 1-QA, Outfall Q was sampled anyway as it was exposed and accessible. TPH-Motor oil: 230 µg/L (1400)	No		
21	G	Outfall G	Outfall G was sampled as it was exposed and accessible at low tide, and because it is an outlet from an area around Site 21 known to have elevated levels of TPH and VOCs	N/A	1,1-DCE: 0.4 µg/L (25); 1,1,1-TCA: 2 µg/L (62); 1,1-DCA: 1 µg/L (47); total 1,2-DCE: 3 µg/L (590*) Chloroethane: 0.9 µg/L (100); TCE: 1 µg/L (360); Vinyl chloride: 0.3 µg/L (782) TPH-Motor oil: 400 µg/L (1400)	No		
	H	6H	total 1,2-DCE: 5 mg/L (590*) MTBE: 2 mg/L (8000); TCE: 2 mg/L (360); Vinyl chloride: 0.4 mg/L (782) TPH-Motor oil: 270 mg/L (1400)	No				
	H	Outfall H	Outfall H was sampled as it was exposed and accessible at low tide, and because it is an outlet from an area around Site 21 known to have elevated levels of TPH and VOCs	N/A	1,1,1-TCA: 0.3 µg/L (62); 1,1-DCA: 0.5 µg/L (47); total 1,2-DCE: 6 µg/L (590*) MTBE: 2 µg/L (8000); TCE: 4 µg/L (360); Vinyl chloride: 0.8 µg/L (782) TPH-Motor oil: 390 µg/L (1400)	No		

**TABLE 3  
INFILTRATION PATHWAY DECISION PROCESS  
ALAMEDA POINT  
(Page 3 of 3)**

Site No.	Outfall	Sample Loc	Step 1		Step 2		Step 3
			Investigate GW Infiltration Occurring in Damaged Storm Sewer Lines located just downstream from GW plumes		Investigate last accessible MH or CB (or Outfall) closest to shoreline		If Yes, then data will be evaluated under RI/FS remedial alternatives
			Are GW COCs > ERVs?	Evaluate?	Are GW COCs > ERVs?	Evaluate?	
23	P	2-P	total 1,2-DCE: 5 µg/L (590*) MTBE: 2 µg/L (8000); TCE: 2 µg/L (360); Vinyl chloride: 0.4 µg/L (782) TPH-Motor oil: 270 µg/L (1400)	No			

**Notes:**

CB = Catch basin  
 COC = Chemical of Concern  
 DCA = Dichloroethane  
 DCB = Dichlorobenzene  
 DCE = Dichloroethene  
 DGS = Data Gap Sampling  
 ERV = Ecological Reference Value  
 GW = Groundwater  
 Loc = Location  
 (590\*) = no ERV standard for total 1,2-DCE has been established

MH = Man-hole  
 MTBE = Methyl Tertiary Butyl Ether  
 N/A = Not applicable  
 RI/FS = Remedial Investigation/Feasibility Study  
 TCA = Trichloroethane  
 TCE = Trichloroethene  
 TPH = Total Petroleum Hydrocarbon  
 µg/L = Micrograms per Liter  
 VOC = Volatile Organic Compound  
 e.g. (1400) = Value in ( ) is that analyte's ERV in µg/L

**APPENDIX H**  
**FIXED LABORATORY CHEMICAL AND PHYSICAL DATA**  
**(ON CD-ROM)**

APPENDIX H – FIXED LABORATORY CHEMICAL  
AND PHYSICAL DATA IS CONTAINED IN  
ELECTRONIC FORMAT AND IS TOO  
VOLUMINOUS TO PRINT OR IMAGE

TO VIEW THE DATA, CONTACT:

**DIANE C. SILVA**  
**RECORDS MANAGEMENT SPECIALIST**  
**NAVAL FACILITIES ENGINEERING COMMAND**  
**SOUTHWEST**  
**1220 PACIFIC HIGHWAY**  
**SAN DIEGO, CA 92132**

**TELEPHONE: (619) 532-3676**

**APPENDIX I**  
**PHOTOGRAPHS OF SAMPLES FOR QUALITATIVE EVALUATION OF LNAPL**  
**AND SHAKE TEST RESULTS TABLE**  
**(4 Pages)**

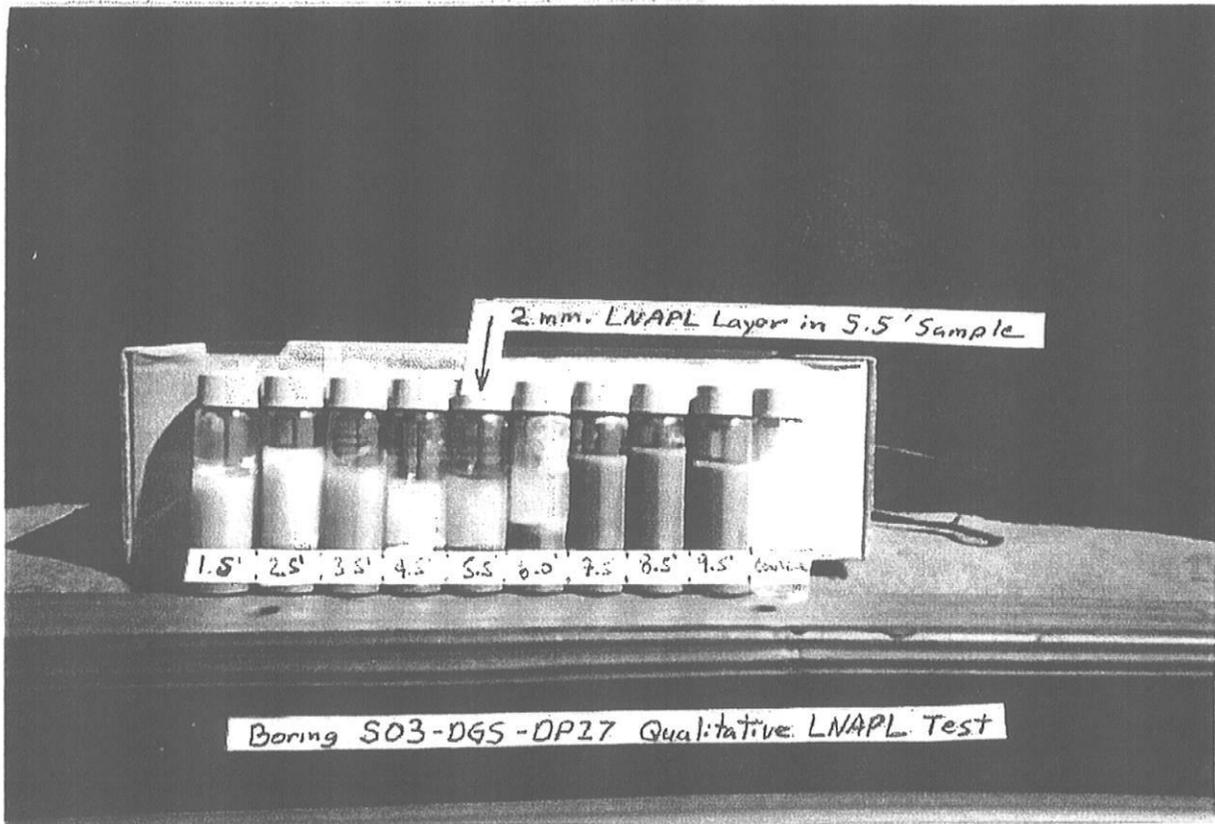


Boring 503-DGS-DP27 Soil Core, View #1



Boring 503-DGS-DP27 Soil Core, View #2

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Boring SO3-DGS-DP27 Qualitative LNAPL Test



**TABLE I-1**

**RESULTS OF SHAKE TEST FOR DETECTING THE PRESENCE OF PRODUCT IN SOIL SAMPLES  
SUPPLEMENTAL REMEDIAL INVESTIGATION DATA GAP SAMPLING FOR OU-1 AND OU-2  
ALAMEDA POINT, ALAMEDA, CALIFORNIA**

<b>Boring Identification</b>	<b>Site</b>	<b>Date Sample Collected</b>	<b>Sample Depth Interval (feet bgs)</b>	<b>Product Present?</b>
FLCAAA-DGS-DP01	FLCAAA	5/9/2001	0.5	No
FLCAAA-DGS-DP01	FLCAAA	5/9/2001	1.5	No
FLCAAA-DGS-DP01	FLCAAA	5/9/2001	3	No
FLCAAA-DGS-DP01	FLCAAA	5/9/2001	4	No
FLCAAA-DGS-DP01	FLCAAA	5/9/2001	4.5	No
FLCAAA-DGS-DP01	FLCAAA	5/9/2001	5	No
FLCAAA-DGS-DP01	FLCAAA	5/9/2001	6	No
FLCAAA-DGS-DP01	FLCAAA	5/9/2001	8	No
FLCAAA-DGS-DP01	FLCAAA	5/9/2001	9	No
FLCAAA-DGS-DP01	FLCAAA	5/9/2001	10	No
S03-DGS-DP27	3	5/9/2001	1.5	No
S03-DGS-DP27	3	5/9/2001	2.5	No
S03-DGS-DP27	3	5/9/2001	3.5	No
S03-DGS-DP27	3	5/9/2001	4.5	No
S03-DGS-DP27	3	5/9/2001	5.5	Yes
S03-DGS-DP27	3	5/9/2001	6	No
S03-DGS-DP27	3	5/9/2001	7.5	No
S03-DGS-DP27	3	5/9/2001	8.5	No
S03-DGS-DP27	3	5/9/2001	9.5	No

Notes:

bgs = below ground surface